

COUNTS OF RED-TIDE ORGANISMS, *Gymnodinium breve*, AND ASSOCIATED OCEANOGRAPHIC DATA FROM FLORIDA WEST COAST, 1960-61



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ABSTRACT

This report presents counts of the red-tide organisms, *Gymnodinium breve*, and associated oceanographic data for the period from January 1960 to August 1961. Methods of collecting and analyzing samples are mentioned. Data on water temperature, water transparency, light transmission, cloud type, cloud amount, visibility, sea direction, sea state, wind direction, wind force, salinity, inorganic phosphate phosphorus, total phosphate phosphorus, nitrate-nitrite nitrogen, ammonia, total organic and inorganic nitrogen, silicon, calcium, and alkalinity are presented. These data were collected as a part of a study on the distribution and incidence of *G. breve* and related ecological conditions and extend the records reported in a previous paper from 1959 to 1961.

INTRODUCTION

This is the sixth report on field studies of the red tide in Florida's coastal waters by the Bureau of Commercial Fisheries. It presents counts of the red-tide organism, *Gymnodinium breve* Davis, with associated oceanographic data. In our previous investigations (Finucane and Dragovich, 1959; Dragovich, Finucane, and May, 1961), copper studies were made because of high toxicity of this element to laboratory cultures of *G. breve*. A preliminary analysis of copper data has shown that the natural levels of this constituent in Tampa Bay and adjacent neritic waters are not immediately toxic to *G. breve*. Thus, the

collection of water samples for copper determinations was discontinued. Calcium, silicon, alkalinity, ammonia, total organic and inorganic nitrogen, and light transmission measurements were added as new parameters to this study. The first two reports were by Graham, Amison, and Marvin (1954) and Marvin (1955a). A brief history and objectives of the red-tide studies with the counts of *G. breve* and associated oceanographic data for the period 1954-57 were presented in the third report (Finucane and Dragovich, 1959). The fourth report (Dragovich, Finucane, and May, 1961) covers the period from July 1957 through December 1959 and also presents the counts of *G. breve* with associated oceanographic data.

The fifth report (Dragovich, 1961) presents counts of *G. breve* with associated plankton and hydrological data at Naples, Florida, for the period from March 1956 to August 1957.

Hutton (1956) listed most of the earlier publications pertaining to the Florida red tide. More recent contributions dealing with the Florida red tide were made by Wilson and Ray (1956), Bein (1957), Ray and Wilson (1957), Collier (1958), Rounsefell and Evans (1958), Ingle, Hutton, Shafer, and Goss (1959), Aldrich and Wilson (1960), Hutton (1960), Dragovich and May (1962) and Dragovich (1963).

This report presents the continuation of the data from part II by Dragovich, Finucane, and

May (1961). The data in this report were obtained from the 25 regular stations located in Tampa Bay and adjacent neritic waters extending to 40 miles offshore distance (figs. 1 and 2). Occasionally two special stations were sampled at 50 and 60 miles offshore distance (figs. 1-2).

During the period of this report two minor outbreaks of red tide occurred in our investigation area. The first was observed in March 1960 and the second during July and August of the same year. Both of these outbreaks were confined mainly to an area from the mouth of Tampa Bay to 35 miles offshore, and little fish mortality was observed.

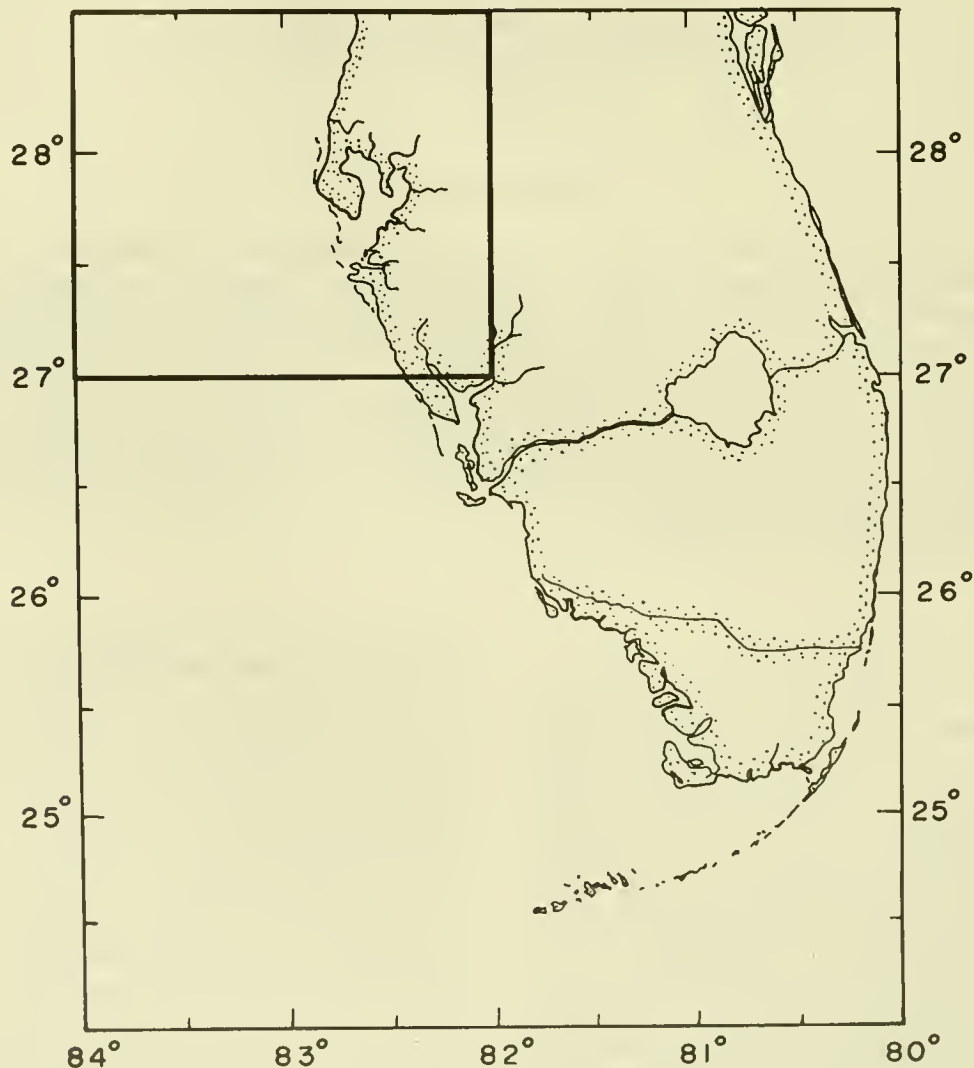


Figure 1.--Index map of southern Florida with outline of investigation area.

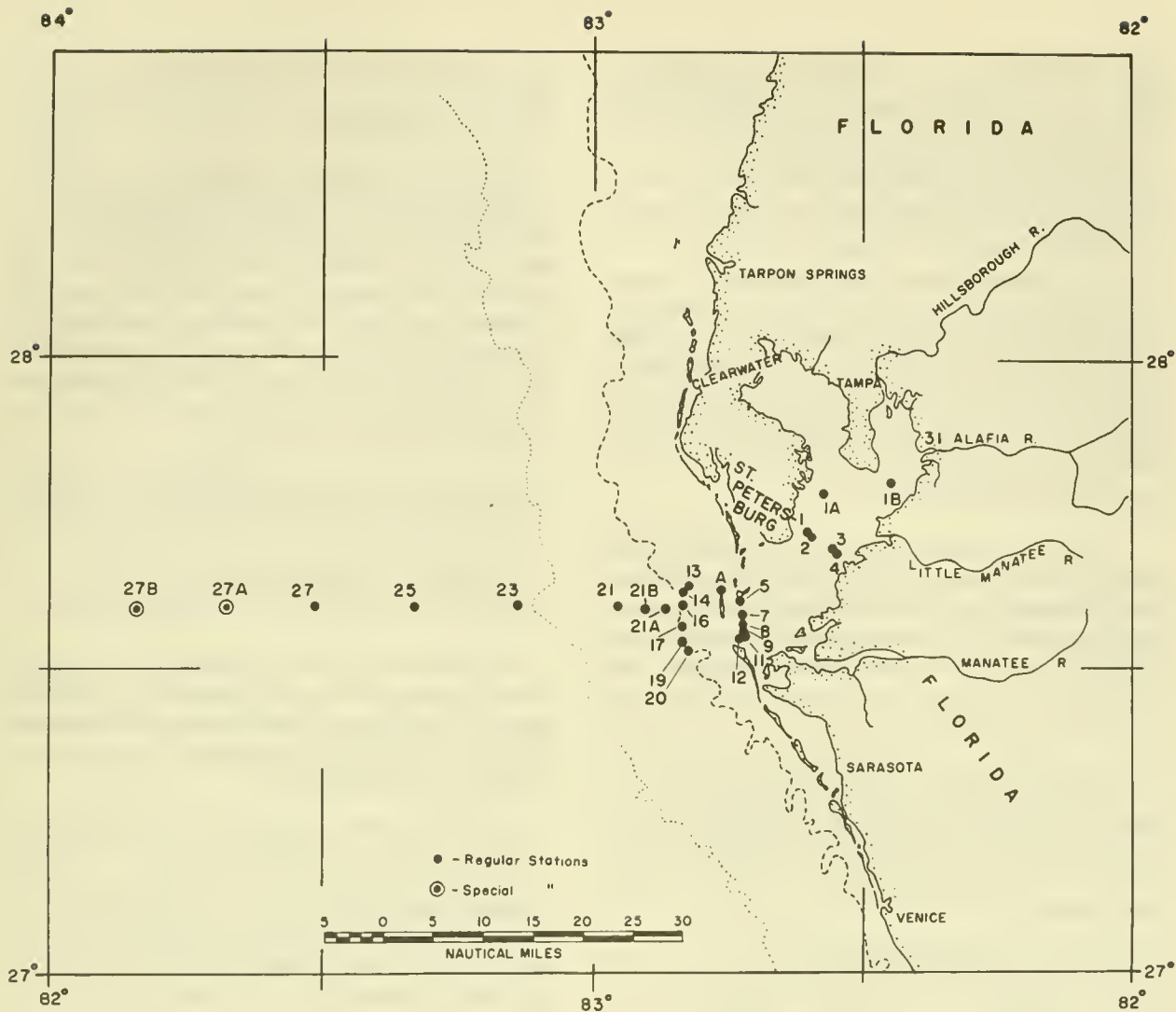


Figure 2.--Tampa Bay area showing station locations.

METHODS

Sampling Techniques

The entire sampling was conducted from the research vessel *Kingfish*, a 43-foot, twin-screw, diesel cruiser, equipped with an echo sounder and radar.

Water samples were collected with modified Van Dorn sampling bottles (Van Dorn, 1957) from three or four evenly spaced depths, including surface and bottom. Samples for the determination of ammonia and total and inorganic nitrogen were collected at selected stations and from the surface only. Samples for total phosphate-phosphorus, inorganic phosphate-phosphorus, nitrate-nitrite nitrogen,

and ammonia were immediately transferred from the sampling containers into 200-mm. culture vials which were capped with polyethylene-lined screw caps and quickly frozen. Samples for the determination of total inorganic and organic nitrogen were transferred into 250-ml. glass containers, quickly frozen and also capped with polyethylene-lined screw caps. Samples for the determination of calcium were transferred into 250-ml. glass-stoppered bottles. Samples for the determination of silicon were transferred into 125-ml. polyethylene containers with polyethylene screw caps. Samples for salinity determinations were transferred into 4-ounce glass prescription bottles and for alkalinity measurements 100-ml. samples were transferred into 250-ml.

glass bottles which contained 25 ml. of 0.01N HCL. All containers used for sampling were chemically cleaned prior to use.

Water temperatures were measured with a thermistor to the nearest tenth of a degree centigrade.

Light measurements (in microamps) were made with deck cell and sea cell and recorded as percentage of light penetration to the nearest tenth of a percent. Surface photometer readings were taken at approximately 2 feet below the surface. Secchi disc readings were also made and they were recorded to the nearest one-half foot.

Cloud type, cloud amount, sea state, visibility, water color, and Secchi disc readings were estimated by the observers and coded as indicated in the section on the explanation of column headings. Wind direction and sea direction were given by points of the compass and are accurate to $\pm 10^\circ$.

All stations were sampled at high tide ± 1 hour, with the exception of the offshore stations 21A, 21B, 21, 23, 25, 27, 27A and 27B, which were sampled without regard to the tidal stage.

Enumeration of *Gymnodinium breve*

Counts of *G. breve* were made according to the enumeration method described by Dragovich, Finucane, and May (1961).

Chemical Analysis

Salinities were determined by the Mohr-Knudsen method (Knudsen, 1901).

Nitrate-nitrite nitrogen determinations were made by the method of Zwicker and Robinson (1944) as modified by Marvin (1955b). Due to the formation of color in the blanks employed in the NO_3 - NO_2 analysis, the accuracy of the method for the low ranges encountered was found to be $\pm 0.2 \mu\text{g.at./l.}$ of NO_3 - NO_2 -N.

Ammonia determinations were made according to the Wirth and Robinson (1933) method. Since a number of substances interfere with the Nessler reaction when ammonia

concentrations are low, accuracy better than ± 0.1 to $0.2 \mu\text{g.at./l.}$ cannot be attained in the range measured here.

Inorganic nitrogen was distilled as ammonia from an alkaline solution and measured colorimetrically using sodium phenate as reagent. After digestion with sulfuric acid, the residue was again made alkaline and the organic nitrogen was acquired and measured the same as for the inorganic determination. No samples were filtered prior to analysis. This procedure was developed as a micro-analytical method by Willis.¹

Calcium determinations were made according to the de Sousa (1954) method.

Alkalinity measurements were made by the method of Thompson and Anderson (1940).

The Harvey (1948) method was used for determinations of total phosphate-phosphorus and the method of Robinson and Thompson (1948) was used in inorganic phosphate-phosphorus determinations.

Concentrations of silicon were determined by the Armstrong (1951) method.

Some of the phosphorus, silicon, and total organic nitrogen values are listed as greater than a given value. This notation indicates that the field sample value exceeded the upper limit of the calibration curve. The given value represents the upper limit of the particular calibration curve established at the time of the determination.

None of the samples were filtered prior to the chemical analyses.

ACKNOWLEDGMENT

McKinley W. Jambor and Lucius Johnson assisted in the enumeration of *G. breve* and chemical analyses respectively.

Robert M. Ingle and Robert F. Hutton from the Florida State Board of Conservation cooperated by exchange of red tide information.

¹David C. Willis. 1960. A microanalytical method for the analysis of total nitrogen in sea water. (Type-written manuscript on file at the University of Tampa.)

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STATION DATA

EXPLANATION OF COLUMN HEADINGS

| | |
|-------------------------------------|--|
| Date | Month, day, and year are given |
| Time | Eastern standard time |
| Depth | Depth is coded as indicated below: For stations 1A through 21B: <u>Code</u> S Surface M Middepth B Bottom For stations from 21 through 27B: 1. Surface 2. First intermediate 3. Second intermediate 4. Bottom |
| C | Concentrated sample |
| M | Mixed sample |
| °C | Water temperature recorded to the nearest 10th of a degree centigrade |
| Sal | Salinity, parts per thousand ‰ |
| Ca | Calcium, mg.at./l. |
| Alk | Total alkalinity, expressed in mg.at. H+ per liter |
| Si | Silicon, μ g.at./l. |
| NO ₃ -NO ₂ -N | Nitrogen, μ g.at. NO ₃ -NO ₂ -N/l. |
| PO ₄ | Phosphate |
| In. | Inorganic phosphate, μ g.at.PO ₄ -P/l. |
| Tot. | Total phosphate, μ g.at.PO ₄ -P/l. |
| Light Transm. | Light transmission expressed in percent, to the nearest tenth |

Sea State Sea state is coded as indicated below:

| <u>Code</u> | <u>Approximate height in 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 |

Wind Amt. Wind speed is given in knots according to the Beaufort scale

Sea Amt. page 187, H.O. Pub. No. 607, 1955

Wind Dir.
and
Sea Dir. Wind direction and sea direction given by points of the compass

Surface Nitrogen
values:

NH₃ Ammonia, $\mu\text{g.at./l.}$
Org. Total organic nitrogen, $\mu\text{g.at./l.}$
In. Total inorganic nitrogen, $\mu\text{g.at./l.}$

Vi Visibility is coded as indicated below:

| <u>Code</u> | | |
|-------------|---------------------------|-------------|
| 0 | Dense fog | 50 yards |
| 1 | Thick fog | 200 yards |
| 2 | Fog | 400 yards |
| 3 | Moderate fog | 1,000 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 |

CA Cloud amount is coded as indicated below:

| <u>Code</u> | <u>Fraction of sky obscured</u> |
|-------------|---------------------------------|
| 0 | 0 |
| 1 | Less than 1/10 and 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 |

CT

Cloud type is coded as indicated below:

Code

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

WC

Water color is coded as indicated below:

Code

| | |
|--------|----------------|
| Br. | Brown |
| L. Br. | Light Brown |
| D. Br. | Dark brown |
| R. Br. | Reddish brown |
| Br. G. | Brownish green |
| G. | Green |
| L. G. | Light green |
| D. G. | Dark green |
| M. G. | Milky green |
| B. G. | Blue green |
| B. | Blue |

Transp.

Water transparency in feet at which Secchi disc is visible, recorded to the nearest one-foot.

| STATION 1A | | Depth of 39 feet | | Longitude - 83°34.4' W. | | Latitude - 27°47.6' N. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | | | | | |
|------------|------|------------------|--------------|-------------------------|------|------------------------|------|------------|------|-----------------|------|--------------------|-----------------|------|-----|-----------------|--------|-------|-------|----|-------|-----|-----|-----|-----|-----|----|---|---|
| Date | Time | Depth | Conductivity | °C | Sal | Ca | Alk | Si | In | P ₀₄ | Tot | NO ₃ | NH ₃ | Org | In | Light transmitt | Transp | Color | CA | CI | VI | Dir | Amt | Dir | Amt | Dir | | | |
| | | C | M | | | | | | | | | ND ₂ -N | | | | | | | | | | | | | | | | | |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/26 | 1526 | S | U | - | 13.4 | 24.09 | - | - | - | 18.0 | 22.8 | 0.2 | - | - | - | - | - | 6 | D.G. | 1 | - | - | 0 | - | 0 | - | 0 | - | |
| - | - | M | U | - | 14.0 | 24.63 | - | - | - | 20.5 | 23.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 13.0 | 24.70 | - | - | - | 19.2 | 21.7 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/16 | 1543 | S | U | - | 17.2 | 23.48 | - | - | - | 23.6 | 23.6 | 0.2 | - | - | - | - | - | 10 | D.G. | 7 | 1 | - | 2 | NNE | - | - | - | - | |
| - | - | M | U | - | 15.9 | 23.75 | - | - | - | 23.9 | 24.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 15.9 | 23.75 | - | - | - | 24.3 | 27.4 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/29 | 1514 | S | U | - | 21.2 | 15.33 | - | - | - | 22.2 | 28.3 | 0.2 | - | - | - | - | - | 4 | D.Br. | 2 | 6 | - | 5 | SW | 2 | SW | - | - | |
| - | - | M | U | - | 19.8 | 17.20 | - | - | - | 22.5 | 24.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 19.8 | 17.74 | - | - | - | 23.0 | 25.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4/14 | 1539 | S | U | - | 21.7 | 17.30 | 5.12 | 1.80 | 7.5 | - | 23.7 | 0.2 | 14.1 | - | - | - | - | 4½ | Br.G. | 6 | 8 | 7 | 3 | E | 1 | NE | - | - | |
| - | - | M | U | - | 20.7 | 17.88 | 5.33 | 1.83 | 7.0 | - | 22.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 20.6 | 18.01 | 5.41 | 1.84 | 6.6 | - | 25.6 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/10 | 1337 | S | U | - | 24.2 | 22.61 | 6.92 | 2.02 | 1.8 | - | 22.6 | 0.4 | 10.6 | - | - | - | - | 4 | D.G. | 2 | 8 | 8 | 4 | W | 2 | W | - | - | |
| - | - | M | U | - | 24.1 | 22.68 | 6.79 | 2.05 | 1.6 | - | 21.1 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 24.1 | 22.61 | 6.79 | 2.01 | 1.8 | - | 22.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/22 | 1254 | S | U | - | 28.2 | 24.81 | 7.65 | 1.98 | 0.8 | - | 22.7 | 0.5 | - | - | - | - | - | 8 | D.G. | 7 | 8 | 8 | 0 | - | 0 | - | - | - | |
| - | - | M | U | - | 27.8 | 25.35 | 7.85 | 2.06 | 2.1 | - | 24.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 27.8 | 25.37 | 7.75 | 2.09 | 2.6 | - | 28.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/19 | 1109 | S | U | - | 30.7 | 25.23 | 7.80 | 2.13 | 6.3 | - | 20.9 | 0.0 | 7.1 | - | - | - | - | 9 | G. | 4 | 4,8 | 7 | 2 | S | 1 | SW | - | - | |
| - | - | M | U | - | 30.1 | 25.41 | 7.85 | 2.17 | 9.0 | - | 21.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 30.1 | 25.52 | 7.80 | 2.12 | 10.0 | - | 22.7 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8/18 | 1131 | S | U | - | 29.9 | 15.05 | 4.80 | 1.76 | 0.8 | - | 21.1 | 0.1 | 7.6 | - | - | - | - | 6 | Br. | 2 | 8 | 6 | 2 | NE | 2 | NE | - | - | |
| - | - | M | U | - | 29.3 | 15.22 | 6.01 | 2.04 | 3.3 | - | 29.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 30.0 | 24.49 | 7.53 | 2.12 | 14.9 | - | 24.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9/20 | 1401 | S | U | - | 28.8 | 15.14 | 4.80 | 1.83 | 12.9 | - | 27.9 | 0.1 | 30.0 | - | - | - | - | 4 | D.Br. | 2 | 8 | 7 | 1 | N | 1 | N | - | - | |
| - | - | M | U | - | 27.9 | 17.38 | 5.38 | 1.87 | 15.7 | - | 26.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 28.0 | 19.51 | 6.03 | 1.95 | 15.5 | - | 26.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10/3 | 1324 | S | U | - | 29.1 | 15.91 | 4.94 | 1.25 | 21.7 | - | 29.0 | 0.5 | 10.0 | - | - | - | - | 4 | Br. | 4 | 8 | 8 | 3 | NE | 1 | NE | - | - | |
| - | - | M | U | - | 28.1 | 16.64 | 5.10 | 1.25 | 19.6 | - | 27.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 28.0 | 16.92 | 5.20 | 1.25 | 18.4 | - | 29.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11/19 | 1550 | S | U | - | 24.0 | 21.08 | 6.55 | 2.16 | 2.4 | - | 21.1 | 0.3 | 1.8 | - | - | - | - | - | D.G. | 4 | 1,2,8 | 7 | 2 | NE | 1 | NW | - | - | |
| - | - | M | U | - | 23.1 | 22.81 | 7.10 | 2.16 | 7.8 | - | 21.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 23.0 | 23.22 | 7.30 | 2.19 | 9.4 | - | 19.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 12/19 | 1708 | S | U | - | 13.6 | 24.49 | 7.58 | 2.24 | 4.7 | - | 23.5 | 0.3 | 4.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | U | - | 13.9 | 25.41 | 7.94 | 2.29 | 4.6 | - | 21.1 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 14.7 | 25.41 | 7.70 | 2.24 | 4.4 | - | 21.9 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/31 | 1546 | S | U | - | 14.3 | 25.64 | 8.05 | 2.16 | 2.7 | - | 24.5 | 0.3 | 1.2 | 20.9 | 6.7 | 22.8 | - | - | D.G. | 6 | 2,8 | 7 | 0 | - | 0 | - | - | - | |
| - | - | M | U | - | 14.5 | 26.08 | 8.10 | 2.19 | 3.2 | - | 22.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 14.5 | 25.86 | 8.00 | 2.19 | 3.6 | - | 23.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/27 | 1428 | S | U | - | 21.0 | 25.25 | 8.10 | 2.14 | 5.7 | - | 23.0 | 0.2 | - | - | - | - | - | 9½ | D.G. | 0 | - | - | 7 | 2 | NW | 1 | NW | - | - |
| - | - | M | U | - | 20.0 | 25.43 | 7.90 | 2.12 | 8.2 | - | 20.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 19.7 | 25.46 | 7.88 | 2.19 | 9.3 | - | 20.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/7 | 1648 | S | U | - | 23.4 | 25.82 | 8.10 | 2.16 | 5.5 | - | 23.3 | 0.2 | - | - | - | - | - | 7½ | D.G. | 5 | 1,2,8 | 7 | 3 | SW | 2 | SW | - | - | |
| - | - | M | U | - | 23.1 | 25.86 | 8.08 | 2.21 | 5.4 | - | 33.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 22.7 | 25.86 | 8.10 | 2.16 | 4.9 | - | 23.3 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/10 | 1201 | S | U | - | 25.9 | 27.27 | 8.65 | 2.21 | 1.7 | - | 31.8 | 0.1 | - | - | - | - | - | 5 | D.G. | 6 | 8 | 7 | 6 | WNW | 2 | WNW | - | - | |
| - | - | M | U | - | 25.8 | 27.27 | 8.60 | 2.19 | 1.7 | - | 30.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 25.8 | 27.27 | 8.60 | 2.19 | 1.6 | - | 31.6 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/8 | 1057 | S | U | - | 28.6 | 28.60 | 8.93 | 2.35 | 10.7 | - | 24.2 | 0.3 | 0.0 | 24.7 | 6.9 | 34.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | U | - | 27.5 | 28.77 | 9.02 | 2.37 | 11.7 | - | 27.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 27.6 | 28.77 | 8.94 | 2.37 | 12.9 | - | 25.5 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/13 | 1407 | S | U | - | 31.5 | 29.20 | 9.30 | 2.38 | 1.5 | - | 26.9 | 0.4 | 1.2 | 43.4 | 3.6 | 48.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | U | - | 29.6 | 29.54 | 9.42 | 2.42 | 4.4 | - | 26.2 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | U | - | 29.4 | 29.67 | 9.50 | 2.44 | 5.9 | - | 24.3 | 0.1 | - | -</ | | | | | | | | | | | | | | | |

| STATION 1B | | Depth of 39 feet | | Lat. 27°48.7' N. | | Long. 82°26.8' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | | |
|------------|------|------------------|------------------|------------------|-------|-------------------|------|------------|------|----------|-------|-------|---------|-------|------|-----------------|--------|-------|-------|-------|----|-----|-----|-----|-----|--|
| Date | Time | Depth | Cymodinium Breve | Sal | Ca | Alk | SI | In | PO4 | Tot | NO2-N | NO3-N | NO3-NH3 | Org | In | Light transmitt | Transp | Color | CA | CT | VI | Amt | Dir | Amt | Dir | |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/26 | 1454 | S | 0 | 13.8 | 22.97 | - | - | 23.9 | 28.6 | 1.0 | - | - | - | - | - | - | 7 | D.G. | - | - | - | - | 2 | NE | 0 | |
| - | - | M | 0 | 12.8 | 24.00 | - | - | 21.9 | 22.3 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 13.1 | 24.36 | - | - | 21.2 | 23.2 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/16 | 1614 | S | 0 | 15.7 | 22.09 | - | - | 23.0 | 23.2 | 1.0 | - | - | - | - | - | - | 7½ | D.G. | 8 | 1 | - | 0 | - | 0 | - | |
| - | - | M | 0 | 15.7 | 23.06 | - | - | 21.6 | 25.8 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 15.8 | 23.39 | - | - | 19.6 | 25.2 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/29 | 1442 | S | 0 | 21.0 | 12.70 | - | - | 24.6 | 24.7 | 1.7 | - | - | - | - | - | - | 5 | D.Br. | 3 | 6 | - | 4 | SW | 2 | SW | |
| - | - | M | 0 | 18.8 | 15.93 | - | - | 22.3 | 34.7 | 0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 18.7 | 16.83 | - | - | 24.0 | 32.3 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4/14 | 1509 | S | 0 | 21.6 | 16.76 | 5.04 | 1.78 | 9.2 | - | 24.0 | 0.4 | 17.1 | - | - | - | - | 12 | Br.G. | 6 | 8 | 7 | 3 | E | 1 | NE | |
| - | - | M | 0 | 21.0 | 17.30 | 5.18 | 1.84 | 9.0 | - | 24.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 20.8 | 19.49 | 5.72 | 1.92 | 6.5 | - | 23.3 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/10 | 1301 | S | 0 | 24.0 | 21.94 | 6.76 | 2.00 | 4.2 | - | 23.3 | 0.5 | - | - | - | - | - | 5 | Br.G. | 2 | 8 | 8 | 4 | SW | 2 | W | |
| - | - | M | 0 | 24.5 | 23.08 | 6.98 | 2.02 | 6.5 | - | 21.6 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 29.6 | 24.24 | 7.54 | 1.99 | 2.2 | - | 25.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/22 | 1221 | S | 0 | 28.0 | 25.08 | 7.76 | 1.98 | 6.5 | - | 25.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 28.0 | 25.66 | 7.95 | 2.09 | 11.1 | - | 25.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 30.3 | 23.30 | 7.22 | 2.06 | 11.0 | - | 25.4 | 0.0 | 6.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/19 | 1037 | S | 0 | 30.3 | 24.42 | 7.60 | 2.10 | 9.8 | - | 22.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 30.4 | 24.76 | 7.65 | 2.08 | 10.6 | - | 26.6 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 29.4 | 14.60 | 4.70 | 1.75 | 2.9 | - | 24.4 | 0.1 | 8.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8/18 | 1054 | S | 0 | 30.0 | 23.69 | 7.33 | 2.11 | 11.2 | - | 22.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 30.0 | 24.24 | 7.50 | 2.10 | 12.5 | - | 22.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 29.0 | 13.98 | 4.36 | 1.72 | 9.8 | - | 27.9 | 0.1 | 4.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9/20 | 1322 | S | 0 | 27.8 | 18.78 | 5.76 | 1.87 | 16.4 | - | 23.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 27.8 | 17.02 | 5.30 | 1.87 | 12.7 | - | 24.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 28.5 | 14.78 | 4.64 | 1.22 | 21.7 | - | 28.4 | 0.2 | 5.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10/3 | 1250 | S | 0 | 28.4 | 17.14 | 5.26 | 1.31 | 21.7 | - | >29.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 28.4 | 19.33 | 5.94 | 1.46 | 19.6 | - | 27.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 24.0 | 22.95 | 7.21 | 2.15 | 4.2 | - | 22.7 | 0.0 | 1.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11/19 | 1513 | S | 0 | 23.4 | 23.13 | 7.21 | 2.16 | 8.8 | - | 24.0 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 23.0 | 23.59 | 7.34 | 2.18 | 11.4 | - | 22.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 14.3 | 26.17 | 8.17 | 2.22 | 3.2 | - | 25.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 12/19 | 1634 | S | 0 | 13.6 | 25.32 | 7.88 | 2.26 | 2.3 | - | 27.2 | 0.1 | 1.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 13.6 | 25.37 | 8.05 | 2.24 | 2.5 | - | 21.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 13.8 | 25.95 | 8.12 | 2.27 | 3.5 | - | 21.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1961 | 1/31 | S | 0 | 15.1 | 24.90 | 7.86 | 2.16 | 2.0 | - | 26.8 | 0.1 | 0.0 | 30.9 | 2.9 | 37.5 | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | 14.3 | 25.91 | 7.99 | 2.21 | 3.5 | - | 24.9 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 14.3 | 26.17 | 8.17 | 2.22 | 3.2 | - | 25.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/27 | 1353 | S | 0 | 20.7 | 23.37 | 7.57 | 2.06 | 5.8 | - | 22.2 | 0.2 | - | - | >28.6 | 0.9 | 35.7 | 3 | Br.G. | 0 | - | - | - | - | - | - | |
| - | - | M | 0 | 19.6 | 25.28 | 7.98 | 2.19 | 8.7 | - | 22.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 20.1 | 25.82 | 8.15 | 2.25 | 12.7 | - | 23.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/7 | 1616 | S | 0 | 23.3 | 24.22 | 7.75 | 2.08 | 1.3 | - | >33.3 | 0.2 | - | - | >28.6 | 2.0 | 31.5 | 5 | D.G. | 5 | 1,2,8 | 7 | 4 | SW | 2 | SW | |
| - | - | M | 0 | 23.0 | 24.96 | 7.86 | 2.10 | 5.6 | - | >33.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 22.4 | 25.46 | 8.04 | 2.16 | 7.4 | - | >33.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/10 | 1129 | S | 0 | 25.9 | 26.47 | 8.33 | 2.05 | 0.5 | - | >31.8 | 0.0 | 2.4 | 31.4 | 5.1 | 20.8 | 10 | D.G. | 6 | 8 | 7 | 6 | WNW | 2 | WNW | | |
| - | - | M | 0 | 25.9 | 26.47 | 8.41 | 2.06 | 0.7 | - | >31.8 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 25.8 | 26.47 | 8.39 | 2.19 | 1.1 | - | 25.4 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/8 | 1023 | S | 0 | 28.6 | 27.61 | 8.70 | 2.21 | 1.7 | - | 26.0 | 0.1 | >44.7 | 4.4 | 33.3 | 4 | D.G. | 2 | 1,2,8 | 7 | 2 | SE | 1 | SE | 1 | SE | |
| - | - | M | 0 | 27.7 | 28.21 | 8.90 | 2.27 | 3.1 | - | 28.0 | 1.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 27.6 | 28.60 | 8.98 | 2.33 | 11.0 | - | 25.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/13 | 1334 | S | 0 | 31.0 | 28.60 | 9.15 | 2.26 | 2.8 | - | 24.3 | 0.1 | 2.4 | >44.7 | 6.9 | 36.0 | 5 | D.G. | 6 | 4,6,8 | 8 | 1 | SE | 1 | SE | | |
| - | - | M | 0 | 30.0 | 28.91 | 9.25 | 2.33 | 3.6 | - | 28.6 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | 29.9 | 29.40 | 9.35 | 2.37 | 7.1 | - | 27.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

| STATION 2 | | Depth of 15 feet | | Lat. 27° 42.7' N. | | Long. 82° 35.8' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | |
|-----------|------|------------------|---|-------------------|-------|--------------------|------|-----------------|-----------------|-----------------|-----|-------|--------------|--------|-------|------|---------|-----|-----|-----|----|
| Date | Time | Gymnodinium | | Ca | Alk | Si | In | PO ₄ | NO ₃ | NH ₃ | Org | In | Light transp | Tranep | Color | CA | CT | VI | Amt | Dir | |
| | | C | M | | | | | | | | | | | | | | | | | | CA |
| 1960 | | | | | | | | | | | | | | | | | | | | | |
| 1/13 | 1420 | S | - | 20.2 | 26.87 | - | - | 18.0 | 19.1 | 0.1 | - | - | - | 5 1/2 | Br.G. | - | - | - | 2 | WSW | 0 |
| - | - | M | - | 20.1 | 25.97 | - | - | 18.3 | 19.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 20.1 | 25.97 | - | - | 18.3 | 19.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - |
| 2/16 | 1510 | S | - | 15.9 | 25.46 | - | - | 20.0 | 21.6 | 0.4 | - | - | - | 5 | D.G. | 6 | 1 | - | 1 | NW | 0 |
| - | - | M | - | 15.9 | 25.53 | - | - | 20.5 | 22.3 | 0.4 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 16.0 | 25.62 | - | - | 21.6 | 22.6 | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| 3/29 | 1344 | S | - | 20.2 | 20.79 | - | - | 21.0 | 30.0 | 0.3 | - | - | - | 3 | L.Br. | 2 | 6 | - | 4 | SW | 2 |
| - | - | M | - | 20.1 | 20.79 | - | - | 22.2 | 24.3 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 20.1 | 20.79 | - | - | 22.0 | 23.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| 4/14 | 1408 | S | - | 21.4 | 23.77 | 7.07 | 2.18 | 0.8 | - | 19.7 | 0.2 | - | - | 5 | Br.G. | 6 | 8 | 7 | 4 | E | 1 |
| - | - | M | - | 21.3 | 23.73 | 7.11 | 2.25 | 0.8 | - | 20.5 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 21.2 | 23.73 | 7.11 | 2.29 | 0.9 | - | 20.5 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 5/10 | 1156 | S | - | 24.5 | 27.50 | 8.38 | 2.22 | 1.5 | - | 15.9 | 0.2 | - | - | 6 | G. | 3 | 6 | 8 | 4 | W | 2 |
| - | - | M | - | 24.4 | 27.52 | 8.49 | 2.24 | 1.6 | - | 15.9 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 24.4 | 27.57 | 8.38 | 2.24 | 1.6 | - | 16.1 | 0.3 | - | - | 6 | D.G. | 7 | 6,8 | 7 | 1 | N | 0 |
| 6/22 | 1123 | S | - | 28.1 | 28.55 | 8.66 | 2.17 | 2.3 | - | 16.8 | 0.2 | - | - | 6 | D.G. | 7 | 6,8 | 7 | 1 | N | 0 |
| - | - | M | - | 28.0 | 28.62 | 8.74 | 2.19 | 2.9 | - | 16.7 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 28.0 | 28.62 | 8.80 | 2.19 | 3.0 | - | 18.1 | 0.1 | - | - | 8 | D.G. | 3 | 4,5 | 7 | 1 | SW | 1 |
| 7/19 | 0932 | S | - | 30.6 | 28.59 | 8.75 | 2.24 | 5.8 | - | 18.7 | 0.0 | - | - | 7 | Br.G. | 1 | 8 | 6 | 4 | NE | 2 |
| - | - | M | - | 30.6 | 28.75 | 8.75 | 2.25 | 6.3 | - | 16.4 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 30.6 | 28.93 | 8.82 | 2.26 | 6.7 | - | 16.3 | 0.1 | - | - | 7 | Br.G. | 1 | 8 | 6 | 4 | NE | 2 |
| 8/18 | 0957 | S | - | 29.2 | 19.36 | 6.15 | 1.93 | 2.1 | - | 23.1 | 0.2 | - | - | 7 | Br.G. | 1 | 8 | 6 | 4 | NE | 2 |
| - | - | M | - | 29.2 | 19.69 | 6.10 | 1.97 | 0.9 | - | 25.2 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 29.9 | 25.72 | 7.84 | 2.12 | 10.8 | - | 18.9 | 0.1 | - | - | 7 | R.Br. | 2,7 | 4,8 | 7 | 3 | N | 2 |
| 9/20 | 1224 | S | - | 28.4 | 17.23 | 5.35 | 1.83 | 9.0 | - | 24.2 | 0.0 | - | - | 4 | Br.G. | 3 | 1, 2, 8 | 7 | 1 | E | 1 |
| - | - | M | - | 27.9 | 20.03 | 6.20 | 2.00 | 8.5 | - | 27.4 | 0.8 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 27.9 | 20.82 | 6.35 | 2.01 | 9.0 | - | 24.4 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 10/3 | 1152 | S | - | 28.5 | 20.44 | 6.34 | 1.55 | 10.3 | - | 26.6 | 0.1 | - | - | 4 | Br.G. | 3 | 1, 2, 8 | 7 | 1 | E | 1 |
| - | - | M | - | 28.3 | 20.90 | 6.44 | 1.72 | 11.2 | - | 22.0 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 28.3 | 20.95 | 6.40 | 1.83 | 11.3 | - | >29.0 | 1.3 | - | - | - | - | - | - | - | - | - | - |
| 11/19 | 1410 | S | - | 24.0 | 24.78 | 7.65 | 2.18 | 4.9 | - | 21.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | - | 23.7 | 25.07 | 7.70 | 2.24 | 5.2 | - | 20.4 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 23.5 | 25.01 | 7.80 | 2.41 | 6.5 | - | 23.4 | - | - | - | - | - | - | - | - | - | - | - |
| 12/19 | 1537 | S | - | 13.6 | 26.69 | 8.21 | 2.30 | 2.5 | - | 20.3 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | - | 13.7 | 26.73 | 8.32 | 2.31 | 4.1 | - | 21.5 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 13.7 | 26.73 | 8.30 | 2.32 | 2.9 | - | 21.8 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 1961 | | | | | | | | | | | | | | | | | | | | | |
| 1/31 | 1414 | S | - | 14.3 | 27.54 | 8.42 | 2.34 | 3.9 | - | 22.9 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | - | 14.3 | 27.56 | 8.60 | 2.34 | 4.2 | - | 23.7 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 14.3 | 27.59 | 8.50 | 2.32 | 3.5 | - | 22.1 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 2/27 | 1254 | S | - | 20.4 | 26.71 | 8.32 | 2.15 | 4.5 | - | 23.0 | 0.3 | - | - | 5 | D.G. | 0 | - | 7 | 2 | E | 1 |
| - | - | M | - | 20.2 | 26.67 | 8.32 | 2.10 | 6.2 | - | 23.6 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 20.2 | 26.67 | 8.41 | 2.21 | 5.3 | - | 21.5 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 3/7 | 1520 | S | - | 23.5 | 28.40 | 8.83 | 2.32 | 1.2 | - | 23.7 | 0.6 | - | - | 7 | D.G. | 5 | 1,2,8 | 7 | 4 | SW | 2 |
| - | - | M | - | 23.5 | 28.31 | 8.90 | 2.26 | 0.9 | - | 23.7 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 23.5 | 28.39 | 8.90 | 2.29 | 0.8 | - | 26.2 | 1.2 | - | - | - | - | - | - | - | - | - | - |
| 5/10 | 1031 | S | - | 25.7 | 30.39 | 9.34 | 2.34 | 2.3 | - | 25.0 | 0.0 | - | - | 4 | D.G. | 6 | 8 | 7 | 5 | WNW | 2 |
| - | - | M | - | 25.7 | 30.39 | 9.40 | 2.32 | 2.4 | - | 26.2 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 25.7 | 30.39 | 9.40 | 2.32 | 2.4 | - | 24.8 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 6/8 | 0923 | S | - | 28.0 | 31.33 | 9.75 | 2.40 | 3.2 | - | 23.1 | 0.5 | - | - | 7 | D.G. | 3 | 1,2,8 | 7 | 2 | SE | 1 |
| - | - | M | - | 28.0 | 31.33 | 9.75 | 2.40 | 3.2 | - | 23.0 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 28.0 | 31.33 | 9.75 | 2.40 | 3.1 | - | 24.5 | 0.6 | - | - | - | - | - | - | - | - | - | - |
| 7/13 | 1231 | S | - | 30.6 | 32.54 | 10.11 | 2.44 | 0.6 | - | 20.6 | 0.8 | - | - | 5 | D.G. | 5 | 4,6,8 | 8 | 1 | SE | 1 |
| - | - | M | - | 30.6 | 32.54 | 10.10 | 2.45 | 1.1 | - | 17.0 | 0.4 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | 30.5 | 32.54 | 9.96 | 2.44 | 1.2 | - | 21.2 | 0.2 | - | - | - | - | - | - | - | - | - | - |

| STATION 4 | | Depth of 16 feet | | Lat. 27° 41.3' N. | | Long. 02° 32.9' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Sea | | | | | | |
|-----------|------|------------------|-------------|-------------------|------|--------------------|-------|-----------------|------|-----------------|--------------------|-------|----|-------|--------|-------|----|---------|----|-----|----|----|
| Date | Time | Depth | Gymnodinium | | Ca | Alk | Si | PO ₄ | In | NO ₃ | NO ₂ -N | Org. | In | Light | Transp | Color | CA | Dir | | | | |
| | | | C | M | | | | | | | | | | | | | | | °C | Sal | °C | °C |
| 1960 | | | | | | | | | | | | | | | | | | | | | | |
| 1/13 | 1352 | S | - | - | 20.6 | 26.83 | - | - | 16.4 | 20.6 | 0.3 | - | - | - | 4 | Br.G. | 2 | - | 2 | SW | 0 | |
| - | - | M | - | - | 20.7 | 26.83 | - | - | 16.6 | 17.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 20.8 | 26.74 | - | - | 17.4 | 18.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | |
| 2/16 | 1443 | S | - | - | 15.5 | 25.53 | - | - | 20.0 | 21.8 | 0.2 | - | - | - | 5½ | Br.G. | 4 | 1 | - | 1 | NW | 0 |
| - | - | M | - | - | 15.5 | 25.48 | - | - | 20.6 | 24.2 | 0.7 | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 15.5 | 25.48 | - | - | 20.3 | 24.2 | 0.4 | - | - | - | - | - | - | - | - | - | - | |
| 3/29 | 1311 | S | - | - | 20.3 | 22.36 | - | - | 21.8 | 23.5 | 0.2 | - | - | - | 4 | Br.G. | 3 | 6 | - | 2 | SW | 2 |
| - | - | M | - | - | 20.2 | 22.36 | - | - | 21.3 | 23.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 20.2 | 22.57 | - | - | 21.8 | 23.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | |
| 4/14 | 1334 | S | - | - | 21.3 | 25.19 | 7.35 | 2.21 | 0.6 | - | - | - | - | - | 6 | L.G. | 6 | 8 | 7 | 4 | E | 1 |
| - | - | M | - | - | 21.2 | 25.23 | 7.45 | 2.24 | 0.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 21.3 | 25.19 | 7.36 | 2.25 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/10 | 1115 | S | - | - | 23.9 | 26.53 | 7.94 | 2.21 | 0.8 | - | - | - | - | - | 4 | G. | 3 | 8 | 8 | 4 | W | 2 |
| - | - | M | - | - | 24.0 | 26.51 | 8.15 | 2.26 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 24.0 | 26.58 | 8.17 | 2.28 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/22 | 1040 | S | - | - | 28.0 | 28.71 | 8.80 | 2.27 | 2.3 | - | - | - | - | - | 2½ | G. | 7 | 6, 8 | 7 | 1 | SE | 0 |
| - | - | M | - | - | 28.0 | 28.68 | 8.77 | 2.29 | 2.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 28.0 | 28.68 | 8.71 | 2.30 | 2.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/19 | 0856 | S | - | - | 30.4 | 29.20 | 9.03 | 2.23 | 7.2 | - | - | - | - | - | 8 | D.G. | 3 | 4, 8 | 7 | 1 | SW | 1 |
| - | - | M | - | - | 30.4 | 29.18 | 8.94 | 2.24 | 6.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 30.4 | 29.18 | 8.94 | 2.31 | 6.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8/18 | 0910 | S | - | - | 29.7 | 23.40 | 7.06 | 2.10 | 3.3 | - | - | - | - | - | 6 | Br.G. | 1 | 8 | 6 | 4 | NE | 2 |
| - | - | M | - | - | 29.6 | 24.99 | 7.70 | 2.23 | 8.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 30.2 | 25.19 | 7.94 | 2.25 | 8.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9/20 | 1148 | S | - | - | 28.3 | 22.88 | 6.90 | 2.09 | 5.2 | - | - | - | - | - | 4½ | R.Br. | 3 | 3, 4, 8 | 6 | 3 | N | 2 |
| - | - | M | - | - | 28.2 | 22.77 | 6.90 | 2.16 | 5.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 28.2 | 22.77 | 6.90 | 2.20 | 5.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10/3 | 1117 | S | - | - | 28.8 | 22.41 | 6.94 | 1.72 | 5.9 | - | - | - | - | - | 3 | Br. | 3 | 8 | 8 | 4 | NE | 2 |
| - | - | M | - | - | 28.7 | 22.45 | 6.83 | 1.80 | 5.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 28.7 | 22.50 | 6.93 | 1.93 | 6.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11/19 | 1327 | S | - | - | 24.1 | 26.02 | 8.08 | 2.27 | 4.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | - | - | 23.9 | 26.02 | 8.19 | 2.30 | 5.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 23.8 | 26.09 | 8.30 | 2.30 | 5.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 12/19 | 1500 | S | - | - | 13.4 | 26.87 | 8.28 | 2.34 | 2.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | - | - | 13.4 | 26.96 | 8.31 | 2.32 | 2.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 13.4 | 27.01 | 8.40 | 2.36 | 2.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | |
| 1/31 | 1345 | S | - | - | 14.6 | 27.25 | 8.54 | 2.28 | 4.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | - | - | 14.4 | 27.25 | 8.47 | 2.30 | 4.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 14.4 | 27.32 | 8.40 | 2.29 | 4.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/27 | 1222 | S | - | - | 19.9 | 27.63 | 8.60 | 2.21 | 4.4 | - | - | - | - | - | 3 | D.G. | 0 | - | 7 | 3 | E | 1 |
| - | - | M | - | - | 19.8 | 27.50 | 8.60 | 2.22 | 5.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 19.8 | 27.56 | 8.66 | 2.22 | 5.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/7 | 1448 | S | - | - | 23.0 | 29.45 | 9.15 | 2.32 | 2.0 | - | - | - | - | - | 5 | D.G. | 5 | 1, 2, 8 | 7 | 5 | SW | 2 |
| - | - | M | - | - | 23.0 | 29.42 | 9.00 | 2.34 | 1.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 23.0 | 29.31 | 9.14 | 2.32 | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/10 | 1055 | S | - | - | 25.7 | 30.90 | 9.45 | 2.32 | 4.3 | - | - | - | - | - | 6 | D.G. | 6 | 8 | 7 | 4 | NW | 2 |
| - | - | M | - | - | 25.7 | 30.91 | 9.40 | 2.35 | 4.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 25.8 | 30.91 | 9.60 | 2.32 | 4.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/8 | 0852 | S | - | - | 27.8 | 31.71 | 9.80 | 2.42 | 3.9 | - | - | - | - | - | 6 | D.G. | 4 | 1, 2, 8 | 7 | 2 | SE | 1 |
| - | - | M | - | - | 27.8 | 31.73 | 9.84 | 2.42 | 4.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 27.8 | 31.73 | 9.84 | 2.42 | 4.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/13 | 1150 | S | - | - | 30.1 | 31.98 | 10.02 | 2.41 | 1.2 | - | - | - | - | - | 4 | D.G. | 4 | 1, 4, 8 | 8 | 2 | SE | 1 |
| - | - | M | - | - | 30.0 | 32.10 | 10.20 | 2.42 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | - | - | 29.9 | 32.18 | 10.02 | 2.42 | 1.5 | - | - | - | - | - | - | - | - | - | - | - | - | |

| STATION 5 | | Depth of 28 feet | | Lat. 27°36.6' N. | | Long. 82°43.8' W. | | Phosphorus | | Nitrogen | | Light trans. | | Water | | Sky | | Wind | | Sea | | | |
|-----------|------|------------------|-----------------------|------------------|-------|-------------------|------|------------|------|----------|-----|--------------|-----|-------|--------|-------|----|---------|-------|-----|-----|-----|-----|
| Date | Time | Depth | Gymnodinium C M | Sal | Ca | Alk | St | PO4 | In | Tot | NO3 | NH3 | Org | In | Transp | Color | CA | CT | VI | Amt | Dir | Amt | Dir |
| 1960 | 1/25 | 1417 | S P 0.0 | 11.9 | 31.49 | - | - | 2.5 | 3.4 | 0.2 | - | - | - | - | 4½ | M.G. | 6 | 1 | - | 3 | NNE | 2 | NNE |
| - | - | - | M 0 | 11.8 | 31.49 | - | - | 2.4 | 2.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 11.7 | 31.56 | - | - | 1.7 | 2.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2/17 | 1532 | S P 53 | P 15.4 | 15.8 | 31.69 | - | - | 4.2 | 4.7 | 0.2 | - | - | - | - | 4 | L.G. | 8 | 1 | - | 0 | - | 0 | - |
| - | - | - | M P 22 | 15.7 | 32.14 | - | - | 2.9 | 3.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 22 | 15.7 | 32.36 | - | - | 3.1 | 4.0 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/28 | 1353 | S P 11 | P 19.0 | 29.56 | - | - | - | 7.3 | 7.9 | 0.3 | - | - | - | - | 8 | L.G. | 7 | 2 | - | 3 | NE | 2 | - |
| - | - | - | M P 2.4 | 16.7 | 30.72 | - | - | - | 5.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 3 | 16.7 | 31.15 | - | - | 4.4 | 5.4 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4/26 | 1331 | S P 0.0 | P 0.0 | 24.1 | 32.25 | 9.70 | 2.37 | 2.6 | 5.5 | 0.1 | - | - | - | - | 8½ | D.G. | 7 | 3,4,6,8 | 7 | 2 | SW | 1 | SW |
| - | - | - | M P 0.2 | 23.7 | 33.75 | 9.90 | 2.40 | 3.0 | 3.9 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 23.7 | 33.24 | 9.90 | 2.40 | 3.5 | 3.9 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5/24 | 1223 | S P 0.0 | M 0.0 | 28.2 | 33.17 | 10.00 | 2.42 | 1.4 | 3.9 | 0.1 | - | - | - | - | 7 | L.G. | 1 | 8 | 8 | 2 | NW | 1 | - |
| - | - | - | M 0.0 | 27.0 | 33.49 | 10.17 | 2.41 | 3.3 | 2.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 26.8 | 33.49 | 10.17 | 2.37 | 3.8 | 3.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6/21 | 1119 | S P 0 | M 0 | 28.0 | 33.57 | 10.15 | 2.39 | 9.0 | 5.9 | 0.1 | - | - | - | - | 8 | L.G. | 8 | 6,8 | 6 | 4 | W | 2 | SW |
| - | - | - | M 0 | 28.0 | 33.40 | 10.14 | 2.42 | 9.0 | 5.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 28.0 | 33.33 | 10.15 | 2.41 | 9.1 | 6.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7/12 | 1534 | S P 0 | M 0 | 31.0 | 33.91 | 10.34 | 2.44 | 3.8 | 5.9 | 0.2 | - | - | - | - | 5 | Br.G. | 6 | 8 | 7 | 4 | W | 2 | W |
| - | - | - | M 0 | 30.9 | 34.05 | 10.34 | 2.44 | 6.2 | 5.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 30.9 | 33.96 | 10.26 | 2.44 | 4.8 | 5.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8/9 | 1456 | S P 0.0 | M 0.0 | 30.9 | 29.38 | 8.95 | 2.23 | 0.8 | 9.2 | 0.2 | - | - | - | - | 5½ | Br.G. | 2 | 6,8 | 7 | 1 | SW | 0 | - |
| - | - | - | M 0.1 | 29.6 | 31.13 | 9.50 | 2.34 | 1.8 | 7.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.2 | 29.6 | 31.11 | 9.54 | 2.34 | 2.3 | 8.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9/8 | 1535 | S P 0.1 | M 0.1 | 28.8 | 30.43 | 9.10 | 2.26 | 4.8 | 7.2 | 0.1 | - | - | - | - | 7 | D.G. | 8 | 6,8 | 7 | 5 | NE | 2 | NE |
| - | - | - | M 0.1 | 28.9 | 31.24 | 9.40 | 2.31 | 6.2 | 5.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 28.9 | 31.27 | 9.50 | 2.31 | 6.4 | 5.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10/4 | 1318 | S P 0.0 | M 0.0 | 28.3 | 29.29 | 8.36 | 1.99 | 2.0 | 11.5 | 0.2 | - | - | - | - | 6 | D.G. | 6 | 2,4,8 | 6 | 3 | E | 2 | E |
| - | - | - | M 0.0 | 28.2 | 30.17 | 9.15 | 2.11 | 2.2 | 10.1 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 28.2 | 30.97 | 9.40 | 2.34 | 3.4 | 9.3 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11/17 | 1306 | S P 0 | M 0 | 23.8 | 31.35 | 9.55 | 2.38 | 2.7 | 7.4 | 0.3 | - | - | - | - | 38.2 | L.G. | 6 | 2,4,8 | 7 | 1 | N | 0 | - |
| - | - | - | M 0 | 23.3 | 31.94 | 9.84 | 2.42 | 5.9 | 7.1 | 0.9 | - | - | - | - | 11.3 | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 23.3 | 32.21 | 9.80 | 2.42 | 4.0 | 6.6 | 0.4 | - | - | - | - | 0.5 | - | - | - | - | - | - | - | - |
| 12/27 | 1005 | S P 0 | M 0 | 12.8 | 32.27 | 9.87 | 2.44 | 0.5 | 3.2 | 0.2 | - | - | - | - | 36.0 | M.G. | 7 | 2,6,8 | 6 | 4 | NE | 2 | NE |
| - | - | - | M 0 | 12.8 | 32.43 | 9.77 | 2.47 | 0.5 | 2.8 | 0.2 | - | - | - | - | 2.4 | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 12.8 | 32.29 | 9.77 | 2.46 | 0.6 | 3.4 | 0.1 | - | - | - | - | 0.2 | - | - | - | - | - | - | - | - |
| 1961 | 1/30 | 1446 | S P 0 | 14.0 | 32.27 | 9.83 | 2.47 | 5.8 | 7.2 | 0.2 | - | - | - | - | 43.8 | M.G. | 0 | - | 7 | 4 | NE | 2 | NE |
| - | - | - | M 0 | 13.8 | 32.38 | 10.03 | 2.48 | 1.4 | 6.9 | 0.2 | - | - | - | - | 2.1 | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 13.9 | 32.56 | 10.02 | 2.48 | 1.0 | 7.1 | 0.3 | - | - | - | - | 0.1 | - | - | - | - | - | - | - | - |
| 2/20 | 1706 | S P 0.0 | M 0.0 | 18.4 | 32.61 | 10.02 | 2.39 | 2.1 | 5.7 | 0.3 | - | - | - | - | - | 6 | G. | 6 | 1,2,8 | 7 | 1 | S | 0 |
| - | - | - | M P 0.0 | 18.4 | 32.97 | 10.12 | 2.40 | 2.9 | 4.7 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 18.4 | 33.26 | 10.24 | 2.44 | 4.5 | 4.7 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/6 | 1532 | S P 0.0 | M 0.0 | 22.6 | 33.42 | 10.30 | 2.47 | 3.1 | 5.3 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | M P 0.1 | 22.2 | 33.68 | 10.22 | 2.48 | 3.0 | 4.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 22.2 | 33.68 | 10.35 | 2.48 | 2.5 | 4.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5/9 | 1055 | S P 0 | M 0 | 25.6 | 34.36 | 10.54 | 2.47 | 4.6 | 5.7 | 0.1 | - | - | - | - | 48.0 | M.G. | 2 | 1,6,8 | 7 | 4 | S | 1 | S |
| - | - | - | M 0 | 25.3 | 34.63 | 10.65 | 2.46 | 4.2 | 5.2 | 0.1 | - | - | - | - | 2.9 | - | - | - | - | - | - | - | - |
| - | - | - | B P 0.0 | 25.3 | 34.56 | 10.56 | 2.46 | 4.2 | 5.3 | 0.1 | - | - | - | - | 0.1 | - | - | - | - | - | - | - | - |
| 6/7 | 0948 | S P 0 | M 0 | 27.3 | 34.29 | 10.51 | 2.48 | 5.8 | 6.7 | 0.8 | - | - | - | - | 52.4 | D.G. | 2 | 2,8 | 8 | 3 | SE | 1 | SE |
| - | - | - | M 0 | 27.1 | 34.43 | 10.56 | 2.48 | 5.3 | 6.1 | 0.4 | - | - | - | - | 5.4 | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 27.1 | 34.47 | 10.65 | 2.48 | 5.8 | 7.0 | 2.1 | - | - | - | - | 0.9 | - | - | - | - | - | - | - | - |
| 7/12 | 1306 | S P 0 | M 0 | 30.5 | 35.35 | 10.74 | 2.49 | 1.1 | 6.2 | 0.4 | - | - | - | - | 42.9 | D.G. | 6 | 2,8 | 7 | 2 | SE | 2 | SE |
| - | - | - | M 0 | 30.2 | 35.33 | 11.00 | 2.48 | 1.7 | 4.9 | 0.6 | - | - | - | - | 2.2 | - | - | - | - | - | - | - | - |
| - | - | - | B P 0 | 30.0 | 35.62 | 11.06 | 2.48 | 1.6 | 5.0 | 0.2 | - | - | - | - | 0.2 | - | - | - | - | - | - | - | - |

| Date | Time | Depth | Gymnodinium | | *C | Sal | Ca | Alk | S1 | PO4 | Phosphorus | | | In | NO2-N | Nitrogen | | | Light transp | Water | Color | CA | CT | Wind | | | | |
|-------|------|-------|-------------|------|------|-------|-------|------|-----|-----|------------|-----|------|------|-------|----------|-----|------|--------------|-------|-------|---------|----|------|-----|-----|-----|---|
| | | | C | M | | | | | | | NO3 | NH3 | Org. | | | NO2-N | NH3 | Org. | | | | | | Vi | Amt | Dir | | |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/25 | 1400 | S | P | 2 | 12.6 | 31.46 | - | - | - | 1.6 | 2.1 | 0.3 | - | - | - | - | - | - | 5 | M.G. | 6 | 1 | - | 3 | NNE | 2 | NNE | |
| - | - | M | P | 0.3 | 12.6 | 31.40 | - | - | - | 1.6 | 2.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 1 | 12.6 | 31.58 | - | - | - | 1.6 | 2.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/17 | 1519 | S | P | 13 | 15.8 | 32.36 | - | - | - | 3.0 | 3.9 | 0.2 | - | - | - | - | - | - | 3½ | L.G. | 8 | 1 | - | 0 | - | - | - | |
| - | - | M | P | 43 | 15.8 | 32.36 | - | - | - | 3.5 | 3.9 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 24.2 | 15.8 | 32.36 | - | - | - | 3.5 | 5.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/28 | 1339 | S | P | 14 | 19.2 | 29.27 | - | - | - | 8.0 | 8.4 | 0.3 | - | - | - | - | - | - | 10½ | L.G. | 7 | 2 | - | 3 | NE | 2 | NE | |
| - | - | M | P | 8 | 18.9 | 30.44 | - | - | - | 3.3 | 3.7 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 12 | 19.2 | 31.33 | - | - | - | 3.4 | 3.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4/26 | 1307 | S | P | 1 | 24.4 | 33.13 | 10.11 | 2.37 | 2.5 | - | 3.9 | 0.2 | 7.1 | - | - | - | - | - | 9 | D.G. | 6 | - | 7 | 2 | SW | 1 | SSW | |
| - | - | M | P | 1.2 | 24.0 | 33.24 | 10.03 | 2.38 | 2.5 | - | 3.4 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 2.2 | 24.0 | 33.24 | 10.03 | 2.38 | 2.6 | - | 3.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/24 | 1200 | S | P | 0.1 | 27.5 | 33.22 | 10.02 | 2.41 | 4.2 | - | 3.6 | 0.2 | 1.2 | - | - | - | - | - | 10 | L.G. | 1 | 8 | 8 | 2 | NW | 1 | - | |
| - | - | M | P | 0.1 | 27.1 | 33.33 | 10.13 | 2.38 | 5.0 | - | 3.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 26.0 | 33.84 | 10.43 | 2.43 | 7.9 | - | 3.3 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/21 | 1101 | S | P | 0 | 28.0 | 33.91 | 10.12 | 2.42 | 7.9 | - | 4.9 | 0.2 | - | - | - | - | - | - | 9½ | L.G. | 8 | 6, 8 | 6 | 3 | W | 2 | SW | |
| - | - | M | P | 0 | 28.0 | 34.02 | 10.12 | 2.41 | 7.6 | - | 4.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 28.0 | 34.27 | 10.40 | 2.44 | 7.1 | - | 3.6 | 0.2 | - | - | - | - | - | - | - | 7 | D.G. | 6 | 8 | 7 | 4 | W | 2 | W |
| 7/12 | 1517 | S | P | 0 | 31.0 | 34.11 | 10.30 | 2.29 | 5.8 | - | 4.6 | 0.2 | 2.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 31.0 | 34.18 | 10.42 | 2.40 | 5.7 | - | 4.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0 | 31.0 | 34.23 | 10.28 | 2.41 | 4.7 | - | 4.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8/9 | 1432 | S | P | 3 | 30.0 | 31.33 | 9.65 | 2.31 | 1.0 | - | 4.4 | 0.1 | 0.6 | - | - | - | - | - | 5 | Br.G. | 2 | 6, 8 | 7 | 1 | SW | 0 | - | |
| - | - | M | P | 2.2 | 29.5 | 31.42 | 9.49 | 2.33 | 1.1 | - | 4.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 1.2 | 29.7 | 31.38 | 9.52 | 2.23 | 1.6 | - | 5.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9/8 | 1518 | S | P | 1 | 28.7 | 30.26 | 8.98 | 2.27 | 3.9 | - | 6.4 | 0.3 | 2.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0.3 | 28.8 | 30.64 | 9.08 | 2.26 | 4.3 | - | 5.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0.1 | 28.8 | 30.70 | 9.11 | 2.29 | 4.8 | - | 5.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10/4 | 1301 | S | P | 0.0 | 28.2 | 29.47 | 8.90 | 2.04 | 2.2 | - | 10.5 | 0.4 | 2.4 | - | - | - | - | - | 6½ | D.G. | 6 | 2, 4, 8 | 6 | 4 | E | 2 | E | |
| - | - | M | P | 0.0 | 28.2 | 30.43 | 9.35 | 2.08 | 2.5 | - | 8.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 28.3 | 31.13 | 9.55 | 2.08 | 3.2 | - | 7.3 | 0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11/17 | 1247 | S | P | 0 | 24.6 | 32.20 | 9.78 | 2.39 | 3.1 | - | 6.3 | 0.0 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 24.5 | 32.20 | 9.84 | 2.38 | 3.3 | - | 6.4 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 24.5 | 32.29 | 9.84 | 2.36 | 3.0 | - | 6.3 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 12/27 | 0949 | S | P | 0 | 12.6 | 31.82 | 9.70 | 2.42 | 0.3 | - | 3.6 | 0.1 | 1.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 12.6 | 32.21 | 9.80 | 2.44 | 0.5 | - | 3.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 12.7 | 32.27 | 9.84 | 2.45 | 0.6 | - | 3.0 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/30 | 1430 | S | P | 0 | 14.3 | 32.30 | 10.00 | 2.45 | 4.4 | - | 7.7 | 0.1 | 26.9 | 0.0 | 44.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 14.2 | 32.34 | 9.80 | 2.44 | 4.4 | - | 7.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 14.2 | 32.38 | 9.94 | 2.48 | 5.9 | - | 8.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/20 | 1650 | S | P | 0.0 | 18.2 | 32.97 | 10.21 | 2.38 | 0.8 | - | 4.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0.0 | 18.6 | 33.24 | 10.17 | 2.40 | 1.8 | - | 3.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0.0 | 18.6 | 33.15 | 10.12 | 2.40 | 2.8 | - | 3.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/6 | 1514 | S | P | 0.0 | 22.3 | 33.87 | 10.36 | 2.47 | 1.4 | - | 3.9 | 0.3 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0.0 | 22.3 | 33.86 | 10.40 | 2.47 | 1.9 | - | 3.8 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 22.2 | 33.86 | 10.30 | 2.47 | 1.8 | - | 4.0 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/9 | 1037 | S | P | 0.0 | 25.6 | 34.63 | 10.60 | 2.47 | 3.9 | - | 5.2 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 25.6 | 34.63 | 10.57 | 2.46 | 4.0 | - | 4.5 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 25.6 | 34.63 | 10.48 | 2.46 | 3.9 | - | 4.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/7 | 0929 | S | P | 0 | 27.5 | 34.54 | 10.51 | 2.47 | 3.9 | - | 5.1 | 0.9 | 3.5 | 40.9 | 6.4 | 55.0 | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 27.4 | 34.54 | 10.55 | 2.47 | 3.9 | - | 5.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 27.4 | 34.54 | 10.57 | 2.47 | 4.5 | - | 5.2 | 1.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7/12 | 1250 | S | P | 0 | 30.4 | 35.79 | 11.04 | 2.48 | 1.3 | - | 2.8 | 0.4 | 0.6 | 28.1 | 6.1 | 37.5 | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | P | 0 | 30.3 | 35.79 | 11.00 | 2.48 | 1.9 | - | 4.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0 | 30.2 | 35.79 | 11.04 | 2.48 | 0.3 | - | 3.0 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

| Date | Time | Depth | Gyrodinium | | °C | Sal. | Ca | Alk | Si | Phosphorus | | Nitrogen | | Light transmitt | Water Transp | Color | CA | 5ky | | Wind | | Sea Dir | |
|-------|------|-------|------------|---|------|-------|-------|------|-----|------------|------|-----------------|-----------------|-----------------|--------------|-------|-------|------|---------|------|-----|---------|-----|
| | | | C | M | | | | | | In | Tot | NO ₃ | NH ₃ | | | | | Org. | Vi | Amt | Dir | | Amt |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | |
| 1/25 | 1326 | S | - | - | 12.5 | 31.35 | - | - | - | 4.8 | 5.3 | 0.2 | - | - | - | 7½ | M.G. | 6 | 1 | - | 4 | NNE | 2 |
| - | - | M | - | - | 12.6 | 31.38 | - | - | - | 4.7 | 5.6 | 0.4 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 13.9 | 31.74 | - | - | - | 3.8 | 4.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - |
| 2/17 | 1444 | S | - | - | 15.8 | 32.27 | - | - | - | 2.9 | 3.2 | 0.3 | - | - | - | 5 | L.G. | 7 | 1 | - | 0 | - | 0 |
| - | - | M | - | - | 15.9 | 32.81 | - | - | - | 2.2 | 2.6 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 16.0 | 33.06 | - | - | - | 1.9 | 2.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - |
| 3/28 | 1306 | S | - | - | 19.8 | 30.43 | - | - | - | 4.8 | 5.1 | 0.2 | - | - | - | 9½ | L.G. | 7 | 2 | - | 2 | SE | 0 |
| - | - | M | - | - | 19.7 | 32.34 | - | - | - | 1.5 | 1.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 19.7 | 32.38 | - | - | - | 1.6 | 1.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 4/26 | 1219 | S | - | - | 25.1 | 32.41 | 9.98 | 2.37 | 1.6 | - | 4.6 | 0.2 | 1.8 | - | - | 11 | L.G. | 6 | 3,4,8 | 7 | 2 | SW | 1 |
| - | - | M | - | - | 24.0 | 33.51 | 10.11 | 2.41 | 1.6 | - | 2.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 24.1 | 34.18 | 10.35 | 2.42 | 2.3 | - | 1.7 | 0.4 | - | - | - | - | - | - | - | - | - | - | - |
| 5/24 | 1118 | S | - | - | 27.4 | 32.79 | 9.41 | 2.37 | 7.3 | - | 5.4 | - | 1.8 | - | - | 10½ | L.G. | 1 | 8 | 8 | 1 | WNW | 1 |
| - | - | M | - | - | 25.6 | 32.95 | 10.22 | 2.40 | 7.1 | - | 5.0 | 0.0 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 25.5 | 34.02 | 10.31 | - | 6.6 | - | 3.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 6/21 | 1014 | S | - | - | 28.0 | 34.20 | 10.50 | 2.43 | 5.8 | - | 4.3 | 0.2 | - | - | - | 9 | L.G. | 8 | 6,8 | 6 | 4 | WSW | 2 |
| - | - | M | - | - | 28.1 | 34.22 | 10.70 | 2.43 | 5.8 | - | 4.7 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 28.0 | 34.56 | 10.44 | 2.44 | 5.8 | - | 3.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 7/12 | 1434 | S | - | - | 29.9 | 34.88 | 10.50 | 2.41 | 2.4 | - | 2.2 | 0.1 | 4.7 | - | - | 7 | D.G. | 6 | 8 | 7 | 4 | W | 2 |
| - | - | M | - | - | 29.9 | 34.92 | 10.47 | 2.41 | 2.6 | - | 2.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 29.9 | 34.92 | 10.57 | 2.41 | 2.8 | - | 2.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 8/9 | 1348 | S | - | - | 30.2 | 30.73 | 9.20 | 2.30 | 0.9 | - | 4.3 | 0.1 | 6.5 | - | - | 6 | Br.G. | 2 | 8 | 7 | 1 | SW | 0 |
| - | - | M | - | - | 30.0 | 31.29 | 9.33 | 2.33 | 1.5 | - | 3.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 30.0 | 32.27 | 9.66 | 2.33 | 1.2 | - | 1.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 9/8 | 1438 | S | - | - | 28.5 | 29.38 | 8.64 | 2.26 | 3.5 | - | 6.0 | 0.2 | 4.1 | - | - | 7 | Br.G. | 8 | 6,8 | 7 | 5 | E | 2 |
| - | - | M | - | - | 29.0 | 29.99 | 8.95 | 2.29 | 4.1 | - | 5.5 | 1.8 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 29.0 | 32.29 | 9.78 | 2.34 | 6.7 | - | 2.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 10/4 | 1222 | S | - | - | 27.9 | 28.80 | 8.70 | 2.07 | 1.0 | - | 9.8 | 0.1 | 1.8 | - | - | 10 | D.G. | 6 | 2,3,4,8 | 6 | 4 | E | 2 |
| - | - | M | - | - | 28.0 | 32.16 | 9.64 | 2.13 | 1.8 | - | 3.3 | 0.4 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 28.2 | 33.12 | 9.97 | 2.16 | 2.4 | - | 2.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| 11/17 | 1200 | S | - | - | 23.9 | 31.38 | 9.70 | 2.40 | 3.4 | - | 8.2 | 0.1 | - | - | - | 11 | L.G. | 5 | 1,2,8 | 7 | 1 | N | 1 |
| - | - | M | - | - | 23.8 | 33.98 | 10.42 | 2.43 | 5.4 | - | 2.3 | 0.5 | - | - | - | 23.8 | - | - | - | - | - | - | - |
| - | - | B | - | - | 23.8 | 33.98 | 10.37 | 2.38 | 5.5 | - | 2.5 | 0.4 | - | - | - | 13.1 | - | - | - | - | - | - | - |
| 12/27 | 0912 | S | - | - | 12.3 | 30.39 | 9.36 | 2.39 | 0.3 | - | 11.9 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 13.0 | 30.68 | 9.40 | 2.38 | 0.3 | - | 11.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 13.1 | 32.30 | 9.93 | 2.43 | 0.8 | - | 5.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | |
| 1/30 | 1347 | S | - | - | 14.5 | 32.00 | 9.75 | 2.37 | 2.3 | - | 7.3 | 0.2 | 20.4 | 2.4 | - | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 14.6 | 32.03 | 9.80 | 2.38 | 2.8 | - | 7.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 14.4 | 32.03 | 9.80 | 2.38 | 3.1 | - | 7.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 2/20 | 1611 | S | - | - | 20.4 | 33.44 | 10.36 | 2.42 | 1.8 | - | 2.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 19.6 | 33.62 | 10.38 | 2.44 | 2.8 | - | 2.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 19.8 | 33.33 | 10.40 | 2.42 | 1.0 | - | 3.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| 3/6 | 1437 | S | - | - | 23.3 | 34.14 | 10.52 | 2.46 | 2.1 | - | 2.7 | 0.1 | 0.6 | 14.7 | 2.9 | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 23.1 | 34.20 | 10.40 | 2.47 | 2.1 | - | 2.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 23.1 | 34.20 | 10.42 | 2.46 | 2.7 | - | 2.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - |
| 5/9 | 0952 | S | - | - | 25.6 | 34.79 | 10.53 | 2.48 | 5.5 | - | 3.5 | 0.1 | 0.0 | 17.9 | 2.0 | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 25.6 | 34.79 | 10.60 | 2.48 | 5.4 | - | 3.7 | 0.6 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 25.7 | 35.91 | 10.25 | 2.46 | 7.5 | - | 2.8 | 0.5 | - | - | - | - | - | - | - | - | - | - | - |
| 6/7 | 0848 | S | - | - | 27.8 | 34.87 | 10.67 | 2.48 | 2.3 | - | 4.3 | 0.1 | 5.3 | 41.7 | 5.7 | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 27.8 | 34.88 | 10.60 | 2.48 | 2.0 | - | 4.8 | 0.9 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 27.7 | 34.90 | 10.68 | 2.48 | 2.8 | - | 4.6 | 0.3 | - | - | - | - | - | - | - | - | - | - | - |
| 7/12 | 1204 | S | - | - | 30.4 | 35.79 | 11.00 | 2.49 | 3.4 | - | 2.2 | - | 1.2 | 20.1 | 1.3 | - | - | - | - | - | - | - | - |
| - | - | M | - | - | 30.2 | 35.79 | 10.95 | 2.48 | 2.6 | - | 1.8 | 0.8 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | - | - | 30.3 | 35.79 | 11.00 | 2.48 | 2.5 | - | 2.1 | 1.4 | - | - | - | - | - | - | - | - | - | - | - |

| STATION 12 | | Depth of 15 feet | | Lat. 27°32.7' N. | | Long. 82°43.7' W. | | Phosphorus | | Nitrogen | | Water | | Wind | | Sea | | | | | | | | | |
|------------|------|------------------|---|------------------|-------|-------------------|-----------------|------------|-----|--------------------|-----------------|-------|----|-------|--------|--------|------|----|---------|-----|-----|-----|----|------|----|
| Date | Time | Gymnodinium | | Ca | Alk | Si | PO ₄ | In | Tot | NO ₃ -N | NH ₃ | Org | In | Light | Transp | Color | CA | CT | Vi | Dir | Amt | Dir | | | |
| | | C | M | | | | | | | | | | | | | | | | | | | | *C | Sal. | Ca |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/25 | 1310 | S | P | 1.8 | 12.9 | 31.46 | - | - | 4.5 | 5.4 | 0.1 | - | - | - | - | 7 1/2 | M.G. | 6 | 1 | - | 4 | NNE | 2 | NNE | |
| - | - | M | P | 10 | 13.4 | 32.30 | - | - | 3.4 | - | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 24 | 13.7 | 32.41 | - | - | 1.9 | 2.5 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/17 | 1434 | S | P | 4.1 | 16.2 | 33.42 | - | - | 1.4 | 1.6 | 0.3 | - | - | - | - | 3 1/2 | L.G. | 7 | 1 | - | 0 | - | 0 | - | |
| - | - | M | P | 8.2 | 16.2 | 33.42 | - | - | 1.2 | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 4.3 | 16.2 | 33.39 | - | - | 1.5 | 1.6 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/28 | 1253 | S | P | 1.6 | 19.5 | 32.52 | - | - | 1.4 | 1.7 | 0.2 | - | - | - | - | 9 | L.G. | 7 | 2 | - | 2 | SE | 0 | - | |
| - | - | M | P | 3.2 | 19.5 | 32.56 | - | - | 1.3 | 1.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 5.4 | 19.5 | 32.52 | - | - | 0.1 | 1.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4/26 | 1200 | S | P | 0.8 | 25.1 | 32.88 | 9.70 | 2.40 | 1.1 | - | 0.3 | - | - | - | - | 9 1/2 | L.G. | 6 | 3,4,8 | 7 | 1 | SW | 2 | SSW | |
| - | - | M | P | 8 | 24.2 | 34.13 | 10.28 | 2.41 | 1.7 | - | 0.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 6 | 24.1 | 34.31 | 10.38 | 2.41 | 1.6 | - | 0.2 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/24 | 1102 | S | 0 | - | 27.2 | 32.92 | 10.02 | 2.36 | 7.2 | - | 5.1 | 0.1 | - | - | - | 11 | L.G. | 1 | 8 | 8 | 1 | WNW | 1 | - | |
| - | - | M | 0 | - | 26.1 | 33.60 | 10.22 | 2.39 | 6.4 | - | 4.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 25.0 | 34.45 | 10.50 | 2.40 | 6.0 | - | 2.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/21 | 0959 | S | 0 | - | 28.0 | 34.90 | 10.50 | 2.44 | 4.6 | - | 2.3 | 0.2 | - | - | - | 9 | L.G. | 8 | 6,8 | 6 | 4 | WSW | 2 | SW | |
| - | - | M | 0 | - | 28.0 | 34.90 | 10.50 | 2.45 | 4.0 | - | 2.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 28.0 | 34.90 | 10.60 | 2.44 | 4.0 | - | 2.0 | 0.2 | - | - | - | 5 | G. | 6 | 8 | 8 | 7 | 4 | W | 2 | W |
| 7/12 | 1424 | S | 0 | - | 31.0 | 35.03 | 10.70 | 2.39 | 2.7 | 1.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | - | 31.0 | 35.10 | 10.63 | 2.45 | 3.0 | 1.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 31.0 | 35.08 | 10.72 | 2.43 | 2.7 | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8/9 | 1332 | S | P | 1.8 | 30.6 | 32.54 | 9.88 | 2.34 | 1.9 | - | 1.5 | 0.3 | - | - | - | 8 | M.G. | 2 | 8 | 7 | 1 | SW | 0 | - | |
| - | - | M | P | 1 | 30.0 | 32.54 | 9.84 | 2.34 | 1.7 | - | 1.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 2 | 30.0 | 32.54 | 9.89 | 2.35 | 1.7 | - | 1.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9/8 | 1425 | S | P | 0.8 | 29.0 | 32.59 | 10.12 | 2.33 | 7.8 | - | 1.4 | 0.1 | - | - | - | 10 1/2 | G. | 8 | 6,8 | 7 | 3 | SE | 2 | NE | |
| - | - | M | P | 0.2 | 29.0 | 32.65 | 10.00 | 2.34 | 7.7 | - | 1.5 | 1.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0.1 | 29.0 | 32.59 | 9.90 | 2.33 | 7.4 | - | 1.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10/4 | 1208 | S | P | 0.0 | 27.8 | 29.81 | 9.00 | 2.09 | 1.1 | - | 7.1 | 0.1 | - | - | - | 9 | D.G. | 6 | 2,3,4,8 | 6 | 4 | E | 2 | E | |
| - | - | M | 0 | - | 28.1 | 33.13 | 10.00 | 2.13 | 2.9 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 28.2 | 33.28 | 9.95 | 2.13 | 3.1 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11/17 | 1141 | S | 0 | - | 24.5 | 31.04 | 9.34 | 2.37 | 2.9 | - | 8.9 | 1.4 | - | - | - | 12 | L.G. | 5 | 1,2,8 | 7 | 1 | N | 1 | N | |
| - | - | M | 0 | - | 24.3 | 33.96 | 10.34 | 2.42 | 5.4 | - | 2.2 | 1.3 | - | - | - | 60.1 | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 24.1 | 34.16 | 10.46 | 2.42 | 5.4 | - | 1.9 | - | - | - | - | 34.7 | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19.5 | - | - | - | - | - | - | - | - | |
| 12/27 | 0855 | S | 0 | - | 12.4 | 30.68 | 9.44 | 2.38 | 0.2 | - | 11.0 | 0.2 | - | - | - | 58.3 | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | - | 12.5 | 31.27 | 9.46 | 2.40 | 0.3 | - | 8.7 | 0.0 | - | - | - | 27.5 | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 13.5 | 33.21 | 10.15 | 2.41 | 0.7 | - | 3.5 | 0.2 | - | - | - | 11.7 | - | - | - | - | - | - | - | - | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/30 | 1330 | S | 0 | - | 14.4 | 32.36 | 9.85 | 2.41 | 3.1 | - | 7.3 | 0.1 | - | - | - | 57.9 | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | - | 14.4 | 32.32 | 9.80 | 2.41 | 3.3 | - | 7.6 | 0.1 | - | - | - | 15.8 | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 14.4 | 32.29 | 9.80 | 2.42 | 3.8 | - | 7.7 | 0.2 | - | - | - | 1.4 | - | - | - | - | - | - | - | - | |
| 2/20 | 1555 | S | F | 0.0 | 19.50 | 34.02 | 10.40 | 2.36 | 1.7 | - | 1.9 | 0.1 | - | - | - | 10 | M.G. | 6 | 1,2,8 | 7 | 3 | S | 1 | S | |
| - | - | M | F | 0.1 | 19.50 | 33.96 | 10.50 | 2.38 | 1.7 | - | 1.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | F | 0.1 | 19.50 | 33.98 | 10.36 | 2.42 | 1.6 | - | 1.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/6 | 1425 | S | F | 0.0 | 23.0 | 34.33 | 10.50 | 2.46 | 3.4 | - | 1.4 | 0.1 | - | - | - | 12 | G. | 3 | 2,8 | 7 | 5 | S | 2 | S | |
| - | - | M | 0 | - | 23.0 | 34.33 | 10.48 | 2.46 | 3.1 | - | 1.4 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 23.0 | 34.29 | 10.53 | 2.45 | 3.1 | - | 1.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/9 | 0937 | S | 0 | - | 25.6 | 34.96 | 10.50 | 2.48 | 6.3 | - | 3.1 | 0.0 | - | - | - | 54.6 | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | - | 25.6 | 35.03 | 10.70 | 2.48 | 7.5 | - | 2.1 | 0.0 | - | - | - | 33.1 | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 25.6 | 35.25 | 10.66 | 2.48 | 7.4 | - | 2.1 | 0.3 | - | - | - | 17.5 | - | - | - | - | - | - | - | - | |
| 6/7 | 0830 | S | 0 | - | 27.7 | 34.90 | 10.70 | 2.47 | 2.8 | - | 4.6 | 0.3 | - | - | - | 64.3 | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | - | 27.5 | 34.97 | 10.62 | 2.48 | 2.0 | - | 3.6 | 0.6 | - | - | - | 29.5 | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 27.4 | 35.12 | 10.70 | 2.47 | 2.7 | - | 2.7 | 4.2 | - | - | - | 17.0 | - | - | - | - | - | - | - | - | |
| 7/12 | 1147 | S | 0 | - | 30.5 | 35.97 | 11.05 | 2.48 | 2.5 | - | 1.6 | - | - | - | 54.0 | - | - | - | - | - | - | - | - | - | |
| - | - | M | 0 | - | 30.5 | 36.02 | 11.10 | 2.49 | 2.9 | - | 1.6 | 0.1 | - | - | - | 25.0 | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 30.5 | 36.02 | 10.91 | 2.48 | 2.7 | - | 1.8 | 1.2 | - | - | - | 6.8 | - | - | - | - | - | - | - | - | |

| Date | Time | Depth | Depth of 22 feet | | °C | Sal | Ca | Alk | Si | Phosphorus | | Nitrogen | | Water | | | Sky | | | Wind | | | Sea Dir | | | |
|-------|------|-------|------------------|--------|------|-------|-------|------|------|-----------------|-----|-----------------|-----------------|-------|------|-------------|--------|-------|-------|-------|-------|-----|---------|-----|-----|-----|
| | | | Gymnodinium | Brevia | | | | | | PO ₄ | In | NO ₃ | NH ₃ | Org | ln | Light trans | Transp | Color | CA | CI | VI | Dir | | Amt | Dir | Amt |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1431 | S | P | 0.0 | 21.0 | 31.87 | - | - | - | 3.8 | 4.5 | 0.3 | - | - | - | 7½ | M.G. | 2 | 1 | - | 0 | - | 0 | - | | |
| - | - | M | 0 | - | 19.4 | 33.37 | - | - | - | 1.3 | 2.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 19.5 | 33.40 | - | - | - | 1.5 | 1.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2/23 | 1406 | S | P | 50 | 15.2 | 32.43 | - | - | - | 1.9 | 2.2 | 0.1 | - | - | - | 5 | M.G. | 6 | 1 | - | 3 | NNE | 2 | NE | | |
| - | - | M | P | 20 | 15.0 | 32.97 | - | - | - | 1.0 | 1.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 13 | 15.0 | 33.19 | - | - | - | 1.1 | 1.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 3/24 | 1318 | S | P | 30 | 18.7 | 29.07 | - | - | - | 2.8 | 3.9 | 0.1 | - | - | - | 6 | L.G. | 1 | - | - | 1 | SW | 2 | W | | |
| - | - | M | P | 12 | 16.0 | 32.56 | - | - | - | 0.4 | 1.0 | 0.2 | - | - | - | 12 | M.G. | 2 | 8 | 8 | 1 | W | 2 | E | | |
| - | - | B | P | 18 | 16.0 | 32.92 | - | - | - | 0.8 | 1.6 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 4/25 | 1302 | S | P | 2 | 23.8 | 33.48 | 10.16 | 2.39 | 1.9 | - | 2.7 | 0.0 | 1.2 | - | - | 10 | L.G. | 4 | 8 | 7 | 0 | - | 0 | - | | |
| - | - | M | 0 | 0.6 | 22.7 | 33.13 | 10.25 | 2.42 | 3.0 | - | 1.7 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.2 | 22.8 | 34.18 | 10.40 | 2.40 | 3.3 | - | 1.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/19 | 1006 | S | P | 0.0 | 25.1 | 33.26 | 10.06 | 2.40 | 5.5 | - | 3.4 | 0.2 | - | - | - | 13 | L.G. | 7 | 2,4,8 | 7 | 2 | S | 1 | SW | | |
| - | - | M | 0 | - | 24.8 | 33.96 | 10.24 | 2.40 | 3.1 | - | 1.7 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 24.4 | 34.14 | 10.24 | 2.40 | 4.1 | - | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6/20 | 1106 | S | 0 | - | 27.7 | 34.38 | 10.44 | 2.43 | 9.1 | - | 3.0 | 0.3 | - | - | - | 7 | M.G. | 6 | 5,8 | 7 | 4 | WSW | 3 | SW | | |
| - | - | M | 0 | - | 27.7 | 34.38 | 10.46 | 2.42 | 9.1 | - | 3.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 27.7 | 34.38 | 10.25 | 2.42 | 10.5 | - | 3.0 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 7/11 | 1448 | S | P | 0.1 | 31.3 | 34.42 | 10.50 | 2.41 | 10.1 | - | 3.8 | 0.1 | 2.4 | - | - | 13½ | D.G. | 3 | 8 | 7 | 2 | SW | 1 | SW | | |
| - | - | M | P | 0.0 | 31.2 | 34.42 | 10.44 | 2.42 | 13.5 | - | 3.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 31.0 | 34.45 | 10.58 | 2.42 | 9.3 | - | 4.0 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 8/8 | 1430 | S | P | 1 | 30.0 | 33.24 | 10.15 | 2.33 | 1.3 | - | 1.4 | 0.1 | 4.1 | - | - | 13½ | D.G. | 3 | 8 | 7 | 2 | SW | 1 | SW | | |
| - | - | M | P | 5 | 29.3 | 33.26 | 10.03 | 2.37 | 1.1 | - | 1.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.6 | 29.2 | 33.26 | 10.12 | 2.36 | 1.3 | - | 1.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 9/7 | 1506 | S | P | 0.9 | 29.5 | 32.07 | 9.70 | 2.26 | 6.8 | - | 3.2 | 0.1 | 2.4 | - | - | 13 | D.G. | 5 | 0,8,9 | 3 | E | 2 | E | E | | |
| - | - | M | P | 0.3 | 29.2 | 32.86 | 9.96 | 2.31 | 10.4 | - | 1.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 29.2 | 32.94 | 9.95 | 2.32 | 13.0 | - | 2.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 10/5 | 1417 | S | 0 | - | 28.5 | 31.49 | 9.54 | 2.30 | 1.6 | - | 6.4 | 1.1 | 0.6 | - | - | 9½ | D.G. | 4 | 1,2,8 | 7 | 3 | SE | 2 | SE | | |
| - | - | M | 0 | - | 28.2 | 32.90 | 9.78 | 2.37 | 3.6 | - | 3.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 28.3 | 33.17 | 9.98 | 2.37 | 5.9 | - | 3.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 11/15 | 2254 | S | 0 | - | 23.0 | 33.69 | 10.02 | 2.39 | 1.8 | - | 1.1 | 0.1 | 4.7 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | M | 0 | - | 22.7 | 33.60 | 10.10 | 2.37 | 1.5 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 22.8 | 33.64 | 10.10 | 2.37 | 1.7 | - | 0.9 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 12/20 | 1647 | S | 0 | - | 14.3 | 32.32 | 9.92 | 2.44 | 1.8 | - | 1.3 | 0.2 | 1.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | M | 0 | - | 13.7 | 32.57 | 9.82 | 2.47 | 2.0 | - | 2.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 13.5 | 32.57 | 10.01 | 2.48 | 2.8 | - | 3.0 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/29 | 1423 | S | 0 | - | 14.4 | 33.31 | 10.20 | 2.44 | 3.4 | - | 3.8 | 0.1 | - | - | 16,0 | 2,3 | - | - | - | - | - | - | - | - | | |
| - | - | M | 0 | - | 14.3 | 33.57 | 10.15 | 2.45 | 2.8 | - | 3.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 14.4 | 33.91 | 10.32 | 2.45 | 3.7 | - | 1.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2/21 | 1749 | S | P | 0.0 | 18.9 | 34.00 | 10.55 | 2.39 | 1.4 | - | 1.1 | 0.5 | 0.6 | 12,9 | 0,9 | - | 14 | D.G. | 5 | 1,2,8 | 6 | 2 | SSW | 1 | SSW | |
| - | - | M | P | 0.3 | 18.9 | 34.00 | 10.47 | 2.39 | 2.0 | - | 1.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.3 | 18.9 | 33.98 | 10.40 | 2.38 | 2.1 | - | 1.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 3/5 | 1509 | S | P | 0.0 | 22.2 | 34.47 | 10.55 | 2.45 | 3.4 | - | 1.3 | 0.0 | 1.2 | 11,1 | 2,9 | - | 10 | L.G. | 5 | 0,1,8 | 7 | 2 | NW | 1 | NW | |
| - | - | M | P | 1.0 | 21.5 | 34.40 | 10.45 | 2.46 | 3.3 | - | 1.5 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 1.2 | 21.4 | 34.47 | 10.50 | 2.45 | 3.6 | - | 1.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/16 | 1406 | S | P | 1.0 | 26.5 | 34.81 | 10.71 | 2.48 | 1.9 | - | 2.1 | 0.0 | - | - | 13,7 | 0,7 | 62,0 | 18 | G. | 2 | 1,2 | 8 | 3 | NW | 1 | NW |
| - | - | M | 0 | - | 25.9 | 34.81 | 10.70 | 2.46 | 2.9 | - | 2.2 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 25.6 | 34.88 | 10.75 | 2.46 | 1.7 | - | 2.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6/6 | 0925 | S | 0 | - | 27.5 | 34.87 | 10.64 | 2.48 | 4.7 | - | 2.9 | 1.1 | - | - | 34,6 | 5,6 | 57,9 | 14 | G. | 2 | 1,2,8 | 7 | 3 | SE | 1 | SE |
| - | - | M | 0 | - | 27.4 | 34.90 | 10.64 | 2.47 | 6.1 | - | 2.9 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 27.5 | 34.83 | 10.67 | 2.48 | 3.9 | - | 3.0 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 7/11 | 1220 | S | 0 | - | 30.7 | 35.62 | 10.94 | 2.48 | 1.5 | - | 3.4 | 0.6 | 0.0 | 24,6 | 2,9 | - | 10 | D.G. | 3 | 2,8 | 7 | 4 | 5 | 2 | S | |
| - | - | M | 0 | - | 30.4 | 35.62 | 10.80 | 2.48 | 1.3 | - | 3.3 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 30.4 | 35.62 | 10.86 | 2.48 | 2.2 | - | 3.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |

| STATION 16 | | Depth of 23 feet | | Lat. 27° 36' N. | | Long. 82° 50' W. | | Sky | | Water | | Wind | | Sea | | | | | | | | |
|------------|------|------------------|-------------|-----------------|------|------------------|-------|------|-----------------|-----------------|-----------------|------|-----------------|-------|--------|-------|-----|-------|-----|-----|-----|----|
| Date | Time | Depth | Gymnodinium | | Sal | Ca | Alk | Si | PO ₄ | Phosphorus | | In | Light transmitt | Color | Transp | Dir | Amt | Dir | Amt | Dir | | |
| | | | C | M | | | | | | NO ₃ | NH ₃ | | | | | | | | | | Org | CA |
| 1960 | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1414 | S | P | 0.0 | 20.2 | 31.78 | - | - | - | 4.3 | 5.2 | 0.2 | - | - | 10½ | L.G. | 2 | 1 | - | 0 | - | |
| - | - | M | 0 | - | 19.8 | 33.24 | - | - | - | 1.6 | 2.2 | 0.2 | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 19.6 | 33.62 | - | - | - | 1.2 | 1.7 | 0.3 | - | - | - | - | - | - | - | - | - | |
| 2/23 | 1350 | S | P | 11.0 | 15.2 | 32.09 | - | - | - | 2.4 | 3.0 | 0.1 | - | - | 5 | M.G. | 8 | 1 | - | 3 | NNE | 2 |
| - | - | M | P | 29 | 15.0 | 32.25 | - | - | - | 2.2 | 2.7 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 14 | 15.2 | 33.37 | - | - | - | 0.9 | 1.3 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 3/24 | 1337 | S | P | 62 | 18.4 | 30.05 | - | - | - | 0.5 | 1.1 | 0.1 | - | - | 8 | L.G. | 1 | - | - | 2 | SW | 2 |
| - | - | M | P | 16.8 | 16.2 | 31.22 | - | - | - | 2.5 | 2.7 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 15.2 | 16.0 | 32.61 | - | - | - | 0.9 | 1.0 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 4/25 | 1242 | S | P | 8 | 24.1 | 34.09 | 10.16 | 2.35 | 2.6 | - | 1.6 | 0.0 | - | - | 15.5 | L.G. | 2 | 8 | 8 | 1 | E | 2 |
| - | - | M | P | 3 | 23.0 | 34.43 | 10.40 | 2.41 | 2.6 | - | 1.2 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 2 | 23.0 | 34.43 | 10.40 | 2.38 | 2.7 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 5/19 | 0951 | S | 0 | - | 25.2 | 32.99 | 9.94 | 2.40 | 6.5 | - | 4.5 | 0.3 | - | - | 9 | M.G. | 3 | 8 | 8 | 1 | NE | 0 |
| - | - | M | 0 | - | 24.5 | 33.75 | 10.13 | 2.34 | 5.6 | - | 2.6 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 23.5 | 34.47 | 10.49 | 2.40 | 5.9 | - | 1.6 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 6/20 | 1044 | S | 0 | - | 27.9 | 34.54 | 10.44 | 2.41 | 7.5 | - | 2.5 | - | - | - | 14 | L.G. | 7 | 8 | 7 | 4 | S | 1 |
| - | - | M | 0 | - | 27.9 | 34.61 | 10.60 | 2.43 | 7.6 | - | 2.6 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 27.9 | 34.54 | 10.44 | 2.43 | 7.3 | - | 2.5 | 0.4 | - | - | - | - | - | - | - | - | - | - |
| 7/11 | 1427 | S | 0 | - | 30.4 | 34.51 | 10.44 | 2.43 | 5.4 | - | 3.4 | 0.1 | - | - | 10 | G. | 6 | 5,8 | 7 | 4 | WSW | 2 |
| - | - | M | 0 | - | 30.9 | 34.36 | 10.67 | 2.42 | 3.9 | - | 3.1 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 30.9 | 34.42 | 10.53 | 2.41 | 8.0 | - | 2.3 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| 8/8 | 1411 | S | P | 0.2 | 30.0 | 33.49 | 10.05 | 2.33 | 1.1 | - | 1.4 | 0.1 | - | - | 14½ | D.G. | 3 | 8 | 7 | 1 | SW | 1 |
| - | - | M | P | 0.5 | 29.2 | 33.42 | 10.15 | 2.34 | 1.9 | - | 1.8 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 3 | 29.1 | 33.42 | 10.10 | 2.35 | 1.1 | - | 1.5 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 9/7 | 1445 | S | P | 0.3 | 29.4 | 32.74 | 9.94 | 2.29 | 8.2 | - | 1.9 | 0.2 | - | - | 13 | Br.G. | 5 | 0,8,9 | 7 | 2 | E | 2 |
| - | - | M | P | 0.7 | 29.2 | 32.90 | 9.94 | 2.30 | 9.6 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.1 | 29.2 | 33.04 | 10.05 | 2.31 | 10.3 | - | 1.5 | 1.4 | - | - | - | - | - | - | - | - | - | - |
| 10/15 | 1359 | S | P | 0.0 | 28.5 | 32.99 | 10.03 | 2.37 | 2.5 | - | 2.6 | 0.2 | - | - | 14 | D.G. | 3 | 1,2,8 | 8 | 3 | SE | 2 |
| - | - | M | P | 0.0 | 28.4 | 32.94 | 9.95 | 2.37 | 2.6 | - | 2.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 28.3 | 33.04 | 9.86 | 2.35 | 2.6 | - | 2.5 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 11/15 | 2236 | S | 0 | - | 23.0 | 33.71 | 10.20 | 2.38 | 1.6 | - | 1.0 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | 0 | - | 23.0 | 33.75 | 10.04 | 2.38 | 1.5 | - | 1.0 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 22.8 | 33.82 | 10.15 | 2.38 | 1.8 | - | 1.0 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 12/20 | 1630 | S | P | 0.0 | 14.9 | 32.75 | 10.06 | 2.43 | 2.4 | - | 1.1 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | P | 0.0 | 14.4 | 32.75 | 10.00 | 2.43 | 1.3 | - | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 14.5 | 32.92 | 10.05 | 2.44 | 1.8 | - | 0.9 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| 1961 | | | | | | | | | | | | | | | | | | | | | | |
| 1/29 | 1405 | S | 0 | - | 14.6 | 33.93 | 10.39 | 2.42 | 3.2 | - | 2.3 | 0.1 | - | - | 5 | M.G. | 8 | 9 | 5 | 4 | N | 1 |
| - | - | M | 0 | - | 14.6 | 34.07 | 10.33 | 2.43 | 2.2 | - | 2.2 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 14.5 | 34.23 | 10.36 | 2.46 | 3.2 | - | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 2/21 | 1734 | S | P | 0.0 | 19.2 | 34.00 | 10.37 | 2.38 | 1.4 | - | 1.2 | 0.2 | - | - | 16 | D.G. | 5 | 1,2,8 | 7 | 2 | SSW | 1 |
| - | - | M | P | 0.1 | 18.9 | 34.05 | 10.40 | 2.39 | 1.3 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.1 | 18.8 | 33.93 | 10.40 | 2.39 | 1.1 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 3/5 | 1452 | S | P | 0.0 | 22.0 | 34.42 | 10.47 | 2.45 | 3.3 | - | 1.1 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | P | 0.0 | 21.2 | 34.42 | 10.54 | 2.46 | 5.2 | - | 1.4 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 21.2 | 34.47 | 10.48 | 2.44 | 2.9 | - | 1.3 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| 5/16 | 1347 | S | 0 | - | 26.7 | 34.63 | 10.65 | 2.46 | 1.2 | - | 2.5 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | 0 | - | 25.7 | 34.97 | 10.67 | 2.46 | 1.4 | - | 2.1 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 25.6 | 35.25 | 10.85 | 2.46 | 2.0 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 6/6 | 0907 | S | 0 | - | 27.1 | 35.01 | 10.72 | 2.47 | 5.0 | - | 2.4 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | 0 | - | 27.0 | 34.99 | 10.60 | 2.47 | 4.7 | - | 2.4 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 27.0 | 34.99 | 10.70 | 2.47 | 5.1 | - | 2.6 | 0.6 | - | - | - | - | - | - | - | - | - | - |
| 7/11 | 1255 | S | 0 | - | 30.6 | 35.73 | 10.90 | 2.48 | 2.2 | - | 2.4 | 1.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | M | 0 | - | 30.6 | 35.70 | 10.83 | 2.48 | 2.9 | - | 2.8 | 0.6 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 30.4 | 35.73 | 10.91 | 2.48 | 2.1 | - | 2.3 | 1.8 | - | - | - | - | - | - | - | - | - | - |

| STATION 17 | | Depth of 28 feet | | Lat. 27° 34' N. | | Long. 82° 50' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | | | |
|------------|------|------------------|-------------|-----------------|------|------------------|-------|------------|-----|----------|-----------------|-----------------|-----------------|-----|----|-----------------|--------|-------|------|-------|---------|-----|-----|-----|-----|----|--|
| Date | Time | Depth | Gymnodinium | | C | Sal | Ca | Alk | Si | In | PO ₄ | NO ₃ | NH ₃ | Org | In | Light transmitt | Transp | Color | CA | CT | Vi | Amt | Dir | Amt | Dir | | |
| | | | breve | M | | | | | | | | | | | | | | | | | | | | | | °C | |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1359 | S | 0 | - | 20.6 | 32.83 | - | - | - | 2.3 | 2.9 | 0.0 | - | - | - | - | 12 | L.G. | 2 | 1 | - | 1 | NE | 0 | | | |
| - | - | M | 0 | - | 19.5 | 33.84 | - | - | - | 1.4 | 1.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 19.7 | 34.04 | - | - | - | 0.9 | 1.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/23 | 1334 | S | P | 190 | 15.2 | 32.84 | - | - | - | 1.1 | 1.5 | 0.3 | - | - | - | - | 7 | M.G. | 8 | 1 | - | 3 | NE | 2 | NW | | |
| - | - | M | P | 13 | 15.1 | 32.95 | - | - | - | 1.1 | 1.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 41 | 15.3 | 33.58 | - | - | - | 0.8 | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 3/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | S | P | 17.2 | 18.5 | 31.56 | - | - | - | 2.9 | 3.4 | 0.1 | - | - | - | - | 12 | L.G. | 1 | - | - | 2 | SW | 2 | W | | |
| - | - | M | P | 4.8 | 16.1 | 31.65 | - | - | - | 1.2 | 1.8 | 0.1 | - | - | - | - | 17 | D.G. | 2 | 8 | 8 | 1 | E | 2 | E | | |
| - | - | B | P | 4 | 15.9 | 33.69 | - | - | - | 0.2 | 0.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 4/25 | 1224 | S | P | 3 | 23.8 | 34.58 | 10.20 | 2.40 | 3.2 | - | 0.7 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | M | P | 2 | 23.0 | 34.58 | 10.44 | 2.37 | 3.5 | - | 0.8 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 2 | 23.0 | 34.58 | 10.32 | 2.41 | 3.3 | - | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/19 | 0936 | S | 0 | - | 25.1 | 33.15 | 10.41 | 2.39 | 5.4 | - | 3.9 | 0.1 | - | - | - | - | 15½ | G. | 3 | 8 | 8 | 1 | NE | 0 | - | | |
| - | - | M | 0 | - | 24.0 | 34.11 | 10.27 | 2.39 | 4.1 | - | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 23.1 | 34.99 | 9.98 | 2.43 | 5.3 | - | 1.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6/20 | 1528 | S | 0 | - | 27.9 | 34.67 | 10.50 | 2.43 | 8.0 | - | 2.6 | 0.5 | - | - | - | - | 14 | L.G. | 7 | 8 | 7 | 4 | S | 2 | SW | | |
| - | - | M | 0 | - | 27.9 | 34.63 | 10.40 | 2.44 | 7.2 | - | 2.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 27.8 | 34.63 | 10.52 | 2.44 | 7.4 | - | 2.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 7/11 | 1409 | S | 0 | - | 31.3 | 35.05 | 10.62 | 2.42 | 3.6 | - | 2.1 | 0.1 | - | - | - | - | 8 | D.G. | 6 | 5,8 | 7 | 4 | WSW | 2 | SW | | |
| - | - | M | 0 | - | 31.1 | 35.07 | 10.57 | 2.43 | 8.5 | - | 2.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 30.7 | 35.07 | 10.73 | 2.44 | 6.6 | - | 1.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 8/8 | 1342 | S | P | 2.8 | 30.0 | 33.77 | 10.10 | 2.35 | 1.4 | - | 1.3 | 0.1 | - | - | - | - | 13 | D.G. | 3 | 8 | 7 | 1 | SW | 1 | SW | | |
| - | - | M | P | 7 | 29.1 | 33.69 | 10.20 | 2.37 | 0.8 | - | 0.9 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 7 | 29.0 | 33.80 | 10.27 | 2.37 | 1.3 | - | 1.2 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 9/7 | 1418 | S | P | 0.2 | 29.6 | 33.35 | 10.20 | 2.31 | 7.4 | - | 1.0 | 0.2 | - | - | - | - | 19 | D.G. | 5 | 0,8,9 | 7 | 2 | E | 2 | E | | |
| - | - | M | P | 0.0 | 29.4 | 33.35 | 10.15 | 2.31 | 7.3 | - | 1.1 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 29.3 | 33.44 | 10.05 | 2.31 | 7.2 | - | 1.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 10/5 | 1342 | S | 0 | - | 29.8 | 33.80 | 10.15 | 2.40 | 1.8 | - | 1.0 | 0.2 | - | - | - | - | 18 | D.G. | 3 | 1,2,8 | 8 | 3 | SE | 2 | SE | | |
| - | - | M | 0 | - | 29.4 | 33.75 | 10.15 | 2.40 | 2.0 | - | 1.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 29.5 | 33.87 | 10.15 | 2.40 | 1.7 | - | 1.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 11/15 | 2204 | S | 0 | - | 23.0 | 32.48 | 9.90 | 2.38 | 1.2 | - | 4.8 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | M | 0 | - | 22.9 | 32.54 | 9.95 | 2.38 | 1.2 | - | 4.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 23.7 | 34.49 | 10.34 | 2.40 | 2.7 | - | 0.9 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 12/20 | 1612 | S | 0 | - | 14.5 | 32.63 | 9.80 | 2.43 | 1.8 | - | 2.1 | 0.4 | - | - | - | - | 37.5 | - | M.G. | 6 | 2,3,4,8 | 8 | 0 | - | 1 | W | |
| - | - | M | 0 | - | 14.4 | 32.92 | 10.03 | 2.46 | 1.9 | - | 1.6 | 0.2 | - | - | - | - | 7.2 | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 14.6 | 33.28 | 10.10 | 2.46 | 1.6 | - | 1.0 | 0.2 | - | - | - | - | 0.6 | - | - | - | - | - | - | - | - | | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/29 | 1348 | S | 0 | - | 14.6 | 34.25 | 10.34 | 2.44 | 2.2 | - | 1.5 | 0.2 | - | - | - | - | 5 | M.G. | 8 | 9 | 4 | 3 | N | 1 | NE | | |
| - | - | M | P | 0.0 | 14.6 | 34.25 | 10.46 | 2.44 | 2.2 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 14.5 | 34.33 | 10.33 | 2.47 | 2.3 | - | 1.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2/21 | 1719 | S | P | 0.1 | 19.1 | 34.05 | 10.55 | 2.38 | 1.0 | - | 1.5 | 0.2 | - | - | - | - | 26 | D.G. | 5 | 1,2,8 | 8 | 2 | SSW | 1 | SSW | | |
| - | - | M | P | 0.1 | 18.4 | 34.11 | 10.38 | 2.40 | 1.4 | - | 1.6 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.1 | 18.4 | 34.00 | 10.50 | 2.38 | 2.0 | - | 1.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 3/5 | 1436 | S | P | 0.0 | 21.7 | 34.56 | 10.47 | 2.44 | 3.6 | - | 1.3 | 1.3 | - | - | - | - | 14 | L.G. | 4 | 0,1,8 | 7 | 2 | SW | 1 | SW | | |
| - | - | M | P | 0.1 | 21.1 | 34.40 | 10.55 | 2.41 | 3.0 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 21.1 | 34.43 | 10.55 | 2.42 | 3.3 | - | 1.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/16 | 1330 | S | 0 | - | 26.6 | 34.83 | 10.61 | 2.46 | 1.7 | - | 2.3 | 0.0 | - | - | - | - | 55.8 | - | G. | 2 | 1,2 | 8 | 3 | NW | 1 | NW | |
| - | - | M | 0 | - | 25.4 | 34.83 | 10.55 | 2.45 | 2.0 | - | 2.4 | 0.1 | - | - | - | - | 38.8 | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 25.4 | 34.74 | 10.65 | 2.45 | 3.2 | - | 2.6 | 0.2 | - | - | - | - | 19.7 | - | - | - | - | - | - | - | - | | |
| 6/6 | 0842 | S | 0 | - | 26.9 | 35.21 | 10.65 | 2.47 | 3.0 | - | 1.6 | 0.2 | - | - | - | - | 24 | G. | 2 | 1,2,8 | 7 | 3 | SE | 1 | SE | | |
| - | - | M | 0 | - | 26.9 | 35.21 | 10.69 | 2.47 | 3.6 | - | 1.7 | 0.4 | - | - | - | - | 17.6 | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 26.8 | 35.21 | 10.67 | 2.47 | 4.3 | - | 1.7 | 0.6 | - | - | - | - | 11.8 | - | - | - | - | - | - | - | - | | |
| 7/11 | 1135 | S | 0 | - | 30.4 | 35.79 | 10.90 | 2.47 | 0.5 | - | 2.0 | 0.6 | - | - | - | - | 14 | D.G. | 3 | 1,2,8 | 7 | 4 | S | 2 | S | | |
| - | - | M | 0 | - | 30.3 | 35.79 | 10.82 | 2.48 | 1.0 | - | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 30.2 | 35.79 | 10.80 | 2.48 | 2.1 | - | 1.9 | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

| STATION 19 | | Depth of 36 feet | | Lat. 27° 32.2' N. | | Long. 82° 50' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | |
|------------|------|------------------|------------|-------------------|------|------------------|-------|------------|-----|-----------------|--------------------|-----------------|------|---------------------|--------|-------|----|---------|----|-----|-----|-----|-----|-----|-----|
| Date | Time | Depth | Gyrodinium | | C | Sal | Ca | Alk | Si | PO ₄ | | NO ₃ | | Light transmittance | Transp | Color | CA | CT | Vi | Dir | Amt | Dir | Amt | Dir | |
| | | | Breave | M | | | | | | Tot | NO ₂ -N | Org | In | | | | | | | | | | | | In |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1344 | S | 0 | - | 20.2 | 33.40 | - | - | - | 1.2 | 2.1 | 0.3 | - | - | 16½ | L.G. | 2 | 1 | - | 1 | NE | 0 | - | - | - |
| - | - | M | 0 | - | 19.6 | 34.02 | - | - | - | 0.9 | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | 0 | - | 20.0 | 34.29 | - | - | - | 0.6 | 0.9 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2/23 | 1312 | S | P | 380 | 15.2 | 32.27 | - | - | - | 2.0 | 2.3 | 0.2 | - | - | 5 | M.G. | 6 | 1 | - | 3 | NE | 2 | - | - | NW |
| - | - | M | P | 60 | 15.0 | 32.84 | - | - | - | 1.4 | 1.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 33 | 15.0 | 33.13 | - | - | - | 1.2 | 1.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/24 | 1414 | S | P | 52 | 18.7 | 32.03 | - | - | - | 1.8 | 2.1 | 0.1 | - | - | 8 | L.G. | 1 | - | - | 1 | SW | 2 | - | - | W |
| - | - | M | P | 12 | 15.9 | 33.96 | - | - | - | 0.1 | 0.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 11.2 | 15.8 | 34.18 | - | - | - | 0.2 | 0.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4/25 | 1203 | S | P | 0.8 | 23.5 | 34.47 | 10.33 | 2.27 | 3.0 | 0.7 | 0.1 | - | - | - | 25 | L.G. | 2 | 8 | 8 | 2 | E | 2 | - | - | E |
| - | - | M | P | 0.2 | 23.0 | 34.52 | 10.45 | 2.40 | 3.1 | 0.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.2 | 23.0 | 34.58 | 10.42 | 2.40 | 3.3 | 0.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5/19 | 0920 | S | P | 0.0 | 25.2 | 33.23 | 9.90 | 2.38 | 5.1 | 4.2 | 0.1 | 0.6 | - | - | 16 | G. | 3 | 8 | 7 | 1 | NE | 0 | - | - | 0 |
| - | - | M | P | 0.0 | 23.9 | 34.85 | 10.44 | 2.41 | 3.1 | 1.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 23.2 | 33.35 | 9.45 | 2.38 | 5.4 | 3.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6/20 | 1009 | S | P | 0.0 | 27.8 | 34.81 | 10.74 | 2.44 | 6.4 | 1.9 | 0.3 | - | - | - | 19 | L.G. | 7 | 2,8 | 7 | 4 | S | 2 | - | - | SW |
| - | - | M | P | 0.0 | 27.7 | 34.72 | 10.66 | 2.44 | 6.6 | 2.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 27.7 | 34.74 | 10.51 | 2.44 | 6.6 | 2.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7/11 | 1351 | S | P | 0.0 | 31.1 | 35.19 | 10.73 | 2.44 | 4.2 | 1.6 | 0.1 | 1.2 | - | - | 12 | D.G. | 6 | 5,8 | 7 | 4 | SW | 2 | - | - | SW |
| - | - | M | P | 0.0 | 30.8 | 35.16 | 10.71 | 2.41 | 4.5 | 1.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 30.7 | 35.16 | 10.80 | 2.42 | 3.9 | 1.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8/8 | 1308 | S | P | 2.6 | 29.7 | 33.84 | 10.33 | 2.37 | 1.5 | 1.2 | 0.1 | 6.5 | - | - | 13 | D.G. | 3 | 8 | 7 | 1 | SW | 1 | - | - | SW |
| - | - | M | P | 7 | 29.0 | 33.86 | 10.25 | 2.38 | 1.2 | 1.3 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 1 | 29.1 | 34.11 | 10.34 | 2.37 | 2.8 | 0.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9/7 | 1358 | S | P | 0.1 | 29.4 | 33.30 | 10.10 | 2.34 | 6.4 | 1.2 | 0.3 | 4.7 | - | - | 20 | D.G. | 5 | 0,8,9 | 7 | 2 | E | 2 | - | - | E |
| - | - | M | P | 0.0 | 29.4 | 33.30 | 9.98 | 2.34 | 6.6 | 1.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 29.3 | 33.35 | 10.15 | 2.30 | 7.5 | 1.1 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10/5 | 1323 | S | P | 0.0 | 28.6 | 33.82 | 10.20 | 2.42 | 2.3 | 1.0 | 0.1 | 2.9 | - | - | 29 | D.G. | 3 | 1,2,18 | 7 | 3 | SE | 2 | - | - | SE |
| - | - | M | P | 0.0 | 28.3 | 33.82 | 10.25 | 2.41 | 1.9 | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 28.3 | 33.78 | 10.21 | 2.39 | 3.0 | 1.1 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11/15 | 2136 | S | P | 0.0 | 23.2 | 32.90 | 9.90 | 2.42 | 1.5 | 3.8 | 0.6 | 10.6 | - | - | - | - | - | - | - | - | - | - | - | - | E |
| - | - | M | P | 0.0 | 23.2 | 33.19 | 10.02 | 2.42 | 1.2 | 2.7 | 1.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 23.1 | 33.35 | 10.01 | 2.38 | 1.2 | 2.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12/20 | 1553 | S | P | 0.0 | 13.2 | 33.15 | 10.09 | 2.42 | 1.4 | 1.3 | 0.6 | 0.6 | - | - | 41.7 | M.G. | 5 | 1,2,3,4 | 8 | 1 | WSW | 1 | - | - | W |
| - | - | M | P | 0.0 | 14.8 | 33.68 | 10.30 | 2.43 | 1.0 | 0.8 | 0.3 | - | - | - | 7.6 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 15.4 | 33.91 | 10.30 | 2.46 | 1.2 | 1.0 | 0.3 | - | - | - | 0.4 | - | - | - | - | - | - | - | - | - | - |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/29 | 1327 | S | P | 0.0 | 14.7 | 34.42 | 10.44 | 2.42 | 1.8 | 1.0 | 0.3 | 2.4 | 7.1 | 2.6 | 6 | M.G. | 8 | 9 | 4 | 3 | NE | 1 | - | - | NE |
| - | - | M | P | 0.0 | 14.7 | 34.42 | 10.44 | 2.42 | 1.0 | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 14.7 | 34.47 | 10.48 | 2.41 | 1.8 | 1.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2/21 | 1703 | S | P | 0.0 | 19.4 | 34.16 | 10.50 | 2.40 | 1.9 | 1.2 | - | - | - | - | 27 | D.G. | 4 | 2,4 | 8 | 2 | SSW | 1 | - | - | SSW |
| - | - | M | P | 0.0 | 18.2 | 34.05 | 10.45 | 2.41 | 1.9 | 1.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.2 | 18.2 | 34.05 | 10.41 | 2.41 | 1.9 | 1.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/5 | 1421 | S | P | 0.0 | 21.2 | 34.56 | 10.40 | 2.41 | 2.9 | 1.8 | 0.1 | - | - | - | 16 | G. | 4 | 0,1,8 | 7 | 2 | SW | 1 | - | - | SW |
| - | - | M | P | 0.1 | 21.2 | 34.51 | 10.44 | 2.43 | 2.7 | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 21.1 | 34.56 | 10.50 | 2.44 | 3.9 | 0.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5/16 | 1312 | S | P | 0.0 | 25.8 | 34.47 | 10.66 | 2.47 | 4.3 | 4.8 | 0.1 | 2.4 | 19.7 | 2.3 | 14 | G. | 2 | 1,2 | 8 | 3 | NW | 1 | - | - | NW |
| - | - | M | P | 0.0 | 25.3 | 35.50 | 10.90 | 2.45 | 2.6 | 0.9 | 0.4 | - | - | - | 20.4 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 25.3 | 35.50 | 10.76 | 2.47 | 2.0 | 1.0 | 0.3 | - | - | - | 11.6 | - | - | - | - | - | - | - | - | - | - |
| 6/6 | 0826 | S | P | 0.0 | 26.8 | 35.30 | 10.69 | 2.47 | 3.5 | 1.6 | 0.6 | - | - | - | 30 | G. | 2 | 1,2,8 | 7 | 3 | SE | 1 | - | - | SE |
| - | - | M | P | 0.0 | 26.8 | 35.30 | 10.65 | 2.46 | 2.8 | 1.8 | 1.0 | - | - | - | 25.9 | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 26.9 | 35.25 | 10.65 | 2.47 | 2.6 | 1.6 | 0.4 | - | - | - | 12.1 | - | - | - | - | - | - | - | - | - | - |
| 7/11 | 1116 | S | P | 0.0 | 30.4 | 35.79 | 10.90 | 2.47 | 0.6 | 1.6 | 0.0 | - | - | - | 17 | G. | 3 | 2,3,8 | 7 | 4 | S | 2 | - | - | S |
| - | - | M | P | 0.0 | 30.2 | 35.79 | 10.80 | 2.48 | 1.6 | 1.9 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | B | P | 0.0 | 30.2 | 35.88 | 10.80 | 2.47 | 2.1 | 1.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| STATION 21A | | Depth of 41 feet | | Long. 82°52.2' W. | | Lat. 27°35.8' N. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | |
|-------------|------|------------------|-------------|-------------------|------|------------------|-------|------------|-----|-----------------|-----|-----------------|-----------------|-----------------|-------|------|----|---------|-----|-----|-------|--------|----|----|----|
| Date | Time | Depth | Gymnodinium | | °C | Sal | Ca | Alk | Si | PO ₄ | | NO ₃ | NH ₃ | Or ₈ | Color | CA | CT | Vi | Dir | Dir | | | | | |
| | | | C | M | | | | | | In | Tot | | | | | | | | | | Light | Transp | CA | CT | Vi |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/11 | 0934 | S | P | 0.1 | 19.5 | 33.17 | - | - | - | 1.8 | 1.9 | 0.4 | - | - | 17 | D.G. | 1 | - | - | 1 | NE | | | | |
| - | - | M | P | 0.0 | 19.5 | 33.40 | - | - | - | 0.8 | 1.0 | 0.1 | - | - | - | - | - | - | - | - | - | | | | |
| - | - | B | P | 0.0 | 19.5 | 34.04 | - | - | - | 0.5 | 1.1 | 0.8 | - | - | - | - | - | - | - | - | - | | | | |
| 2/24 | 0928 | S | P | 130 | 15.8 | 33.54 | - | - | - | 0.3 | 0.9 | 0.2 | - | - | 7 | M.G. | 8 | - | - | 4 | E | | | | |
| - | - | M | P | 90 | 15.0 | 33.62 | - | - | - | 0.6 | 0.9 | 0.1 | - | - | - | - | - | - | - | - | 2 | NW | | | |
| - | - | B | P | 20 | 15.0 | 33.62 | - | - | - | 0.3 | 0.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| 3/23 | 0930 | S | P | 220 | 15.6 | 31.58 | - | - | - | 0.3 | 0.7 | 0.2 | - | - | 9 | L.G. | 0 | - | - | 2 | SW | | | | |
| - | - | M | P | 34 | 15.8 | 34.00 | - | - | - | 0.3 | 0.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | P | 34 | 15.8 | 34.14 | - | - | - | 0.5 | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| 4/19 | 0928 | S | P | 10.6 | 22.4 | 33.19 | 9.70 | 2.37 | 0.8 | - | 2.6 | 0.2 | 20.6 | - | 26 | G. | 5 | 1 | 8 | 3 | NE | | | | |
| - | - | M | P | 0.0 | 20.9 | 34.43 | 10.25 | 2.40 | 1.5 | - | 1.2 | 0.1 | 0.2 | - | - | - | - | - | - | - | 2 | NE | | | |
| - | - | B | P | 0.0 | 20.7 | 34.47 | 10.14 | 2.40 | 1.5 | - | 1.1 | 0.2 | - | - | - | - | - | - | - | - | - | 0 | | | |
| 5/17 | 0759 | S | 0 | - | 24.1 | 33.66 | 10.14 | 2.37 | 2.0 | - | 2.9 | 0.5 | 15.3 | - | 13 | G. | 0 | - | 4 | 0 | - | 0 | | | |
| - | - | M | 0 | - | 23.9 | 33.96 | 10.25 | 2.39 | 0.9 | - | 2.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 22.7 | 35.01 | 10.54 | 2.41 | 2.8 | - | 1.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| 6/15 | 0945 | S | 0 | - | 27.3 | 34.23 | 9.99 | 2.34 | 4.5 | - | 3.0 | 0.7 | - | - | 16 | L.G. | 2 | 8 | 8 | 1 | W | | | | |
| - | - | M | 0 | - | 26.9 | 34.63 | 10.30 | 2.35 | 3.9 | - | 2.1 | 0.5 | - | - | - | - | - | - | - | - | 1 | NW | | | |
| - | - | B | 0 | - | 26.8 | 34.99 | 10.48 | 2.40 | 4.3 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| 7/7 | 0815 | S | 0 | - | 30.8 | 34.54 | 10.22 | 2.37 | 3.9 | - | 3.1 | 0.0 | 2.9 | - | 12 | G. | 6 | 8 | 8 | 0 | - | 0 | | | |
| - | - | M | 0 | - | 30.0 | 34.99 | 10.50 | 2.40 | 3.1 | - | 1.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 29.8 | 35.16 | 10.80 | 2.42 | 4.4 | - | 1.1 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| 8/4 | 0932 | S | P | 1 | 29.0 | 32.88 | 10.00 | 2.32 | 0.5 | - | 1.9 | 0.1 | 6.5 | - | 9½ | D.O. | 7 | 2,3,4,8 | 7 | 2 | 5 | 2 | S | | |
| - | - | M | P | 2.6 | 28.7 | 33.44 | 10.12 | 2.31 | 0.8 | - | 2.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 1.1 | 28.8 | 35.08 | 10.60 | 2.38 | 1.7 | - | 1.0 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| 9/27 | 0855 | S | P | 0.0 | 27.9 | 31.42 | 9.50 | 2.25 | 0.6 | - | 4.5 | 0.0 | 1.8 | - | 12½ | L.G. | 2 | 1,8 | 7 | 3 | SE | 2 | SW | | |
| - | - | M | 0 | - | 28.2 | 33.19 | 10.08 | 2.33 | 2.1 | - | 1.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 28.0 | 33.26 | 10.10 | 2.38 | 6.9 | - | 1.7 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| 10/11 | 0850 | S | P | 2 | 28.1 | 32.47 | 9.76 | 2.29 | 1.9 | - | 3.0 | 0.1 | 4.7 | - | 20 | L.G. | 2 | 1,3,8 | 7 | 3 | E | 1 | NE | | |
| - | - | M | P | 2.4 | 28.3 | 33.04 | 9.90 | 2.33 | 4.2 | - | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.6 | 28.4 | 33.22 | 10.14 | 2.37 | 4.4 | - | 0.9 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| 11/14 | 0906 | S | P | 0.0 | 22.4 | 32.86 | 9.90 | 2.38 | 0.8 | - | 1.2 | 0.2 | 3.5 | - | 28 | L.G. | 1 | 8 | 6 | 5 | NE | 2 | NE | | |
| - | - | M | P | 0.0 | 22.3 | 33.04 | 9.90 | 2.38 | 0.9 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 24.0 | 34.72 | 10.44 | 2.44 | 3.0 | - | 0.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| 12/8 | 0901 | S | 0 | - | 17.8 | 33.33 | 10.20 | 2.40 | 1.3 | - | 1.0 | 0.2 | 0.6 | - | 18 | G. | 7 | 6,8 | 5 | 2 | NE | 1 | NE | | |
| - | - | M | 0 | - | 18.4 | 34.07 | 10.16 | 2.38 | 1.5 | - | 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 18.7 | 34.04 | 10.30 | 2.40 | 0.9 | - | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 0903 | S | 0 | - | 14.6 | 34.25 | 10.16 | 2.33 | 1.0 | - | 1.8 | 0.1 | 2.4 | 10.9 | 2.3 | 56.2 | - | G. | 7 | 2,6 | 6 | 4 | NE | 1 | NE |
| - | - | M | 0 | - | 14.7 | 34.60 | 10.10 | 2.38 | 1.8 | - | 1.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 14.7 | 34.68 | 10.30 | 2.38 | 1.1 | - | 0.6 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/28 | 0916 | S | P | 0.1 | 19.2 | 34.25 | 10.53 | 2.43 | 1.8 | - | 1.8 | 0.1 | 14.4 | 0.4 | 4 | M.G. | 1 | 0,1,2 | 7 | 2 | SE | 2 | SE | | |
| - | - | M | P | 0.0 | 19.2 | 34.25 | 10.53 | 2.44 | 2.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 18.4 | 34.72 | 10.49 | 2.46 | 1.9 | - | 0.9 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/2 | 0906 | S | 0 | - | 20.4 | 33.95 | 10.30 | 2.42 | 3.1 | - | 2.7 | 0.2 | 13.0 | 0.3 | - | M.G. | 7 | 8 | 6 | 2 | NE | 1 | NE | | |
| - | - | M | P | 0.1 | 20.1 | 34.20 | 10.36 | 2.44 | 2.2 | - | 1.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | P | 0.0 | 19.9 | 34.51 | 10.45 | 2.42 | 2.7 | - | 1.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/15 | 0859 | S | 0 | - | 25.5 | 34.88 | 10.61 | 2.28 | 3.2 | - | 3.1 | 0.2 | 2.4 | 17.9 | 5.9 | 64.7 | - | G. | 0 | - | 7 | 1 | SE | 1 | S |
| - | - | M | 0 | - | 25.4 | 34.99 | 10.70 | 2.39 | 2.7 | - | 2.6 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 25.2 | 35.50 | 10.90 | 2.44 | 2.3 | - | 0.9 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6/5 | 0845 | S | 0 | - | 26.9 | 35.03 | 10.48 | 2.41 | 3.8 | - | 0.9 | 0.5 | 27.1 | 3.1 | 61.7 | D.G. | 6 | 4,8 | 7 | 2 | SE | 1 | SE | | |
| - | - | M | 0 | - | 26.9 | 35.03 | 10.60 | 2.44 | 3.3 | - | 0.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 26.6 | 35.50 | 10.80 | 2.46 | 3.3 | - | 1.1 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | | |
| 7/10 | 0853 | S | 0 | - | 30.2 | 35.79 | 11.16 | 2.43 | 0.3 | - | 1.7 | 0.2 | 1.2 | 8.6 | 8.7 | 38.2 | - | G. | 5 | 1,8 | 7 | 1 | SE | 0 | |
| - | - | M | 0 | - | 30.2 | 35.79 | 10.88 | 2.45 | 0.4 | - | 1.1 | 1.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | B | 0 | - | 30.2 | 35.84 | 10.90 | 2.46 | 2.0 | - | 1.0 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | |

| STATION 21B | | Depth of 45 feet | | Lat. 27° 35.8' N, | | Long. 82° 54.4' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | |
|-------------|------|------------------|-------------|-------------------|------|--------------------|-------|-----------------|-----|-----------------|-----------------|-------|------|---------------|-------|------|------|---------|-------|-----|----|----|----|----|----|
| Date | Time | Depth | Gymnodinium | | Ca | Alk | Si | PO ₄ | In | NO ₃ | NH ₃ | Org | In | Light transam | Color | CA | CT | VI | Dir | Amt | | | | | |
| | | | C | M | | | | | | | | | | | | | | | | | °C | °C | | | |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/11 | 0950 | S | P | 0.0 | 19.6 | 33.10 | - | - | 1.8 | 2.0 | 0.2 | - | - | - | 20 | D.G. | 2 | - | 3 | NE | 2 | NE | | | |
| - | - | M | 0 | - | 19.4 | 33.86 | - | - | 0.4 | 1.1 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 19.6 | 34.29 | - | - | 0.4 | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 2/24 | 0946 | S | P | 170 | 15.1 | 33.57 | - | - | 0.4 | 0.9 | 0.4 | - | - | - | 9 | M.G. | 8 | - | 4 | E | 2 | NW | | | |
| - | - | M | P | 70 | 15.1 | 33.62 | - | - | 0.5 | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | P | 60 | 15.2 | 33.89 | - | - | 0.3 | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 3/23 | 0945 | S | P | 260 | 15.7 | 30.66 | - | - | 0.2 | 0.6 | 0.2 | - | - | - | 9 | L.G. | 0 | - | 2 | SW | 2 | SW | | | |
| - | - | M | P | 50 | 15.7 | 34.33 | - | - | 0.3 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | P | 32 | 15.6 | 34.56 | - | - | 0.3 | 0.5 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 4/19 | 0953 | S | P | 14.4 | 22.6 | 33.30 | 9.86 | 2.38 | 0.6 | - | 0.2 | 4.1 | - | - | 25 | D.G. | 5 | 1 | 7 | 3 | NE | 2 | NE | | |
| - | - | M | P | 0.0 | 21.0 | 34.47 | 10.28 | 2.41 | 0.9 | - | 0.9 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 19.8 | 34.63 | 10.45 | 2.41 | 1.6 | - | 0.9 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/17 | 0820 | S | 0 | - | 24.0 | 33.89 | 10.35 | 2.34 | 1.0 | - | 2.0 | 0.3 | 0.6 | - | 22 | D.G. | 0 | - | 4 | 1 | NW | 0 | | | |
| - | - | M | 0 | - | 23.9 | 34.14 | 10.33 | 2.37 | 0.5 | - | 1.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | P | 0.0 | 22.3 | 35.12 | 10.63 | 2.42 | 2.5 | - | 0.9 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| 6/15 | 1000 | S | 0 | - | 27.3 | 34.45 | 10.37 | 2.42 | 3.0 | - | 2.6 | 0.1 | - | - | 24 | L.G. | 2 | 8 | 8 | 1 | W | 1 | NW | | |
| - | - | M | 0 | - | 26.9 | 34.90 | 10.53 | 2.42 | 2.3 | - | 1.7 | 0.0 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 26.6 | 35.16 | 10.60 | 2.42 | 4.0 | - | 1.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| 7/7 | 0829 | S | 0 | - | 30.6 | 34.76 | 10.48 | 2.42 | 0.9 | - | 2.3 | 0.1 | 2.9 | - | 15 | G. | 6 | 8 | 8 | 1 | SW | 0 | | | |
| - | - | M | 0 | - | 30.0 | 35.14 | 10.77 | 2.43 | 0.9 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 29.5 | 35.30 | 10.64 | 2.43 | 4.4 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| 8/4 | 0957 | S | P | 32 | 29.1 | 33.37 | 10.11 | 2.32 | 1.0 | - | 2.1 | 0.1 | 1.8 | - | 10½ | D.G. | 7 | 2,3,4,8 | 7 | 2 | S | 2 | S | | |
| - | - | M | P | 8 | 29.0 | 34.99 | 10.70 | 2.38 | 1.7 | - | 0.7 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | P | 1.4 | 28.8 | 35.21 | 10.70 | 2.38 | 2.7 | - | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| 9/27 | 0915 | S | P | 0.0 | 28.2 | 33.22 | 10.03 | 2.34 | 1.8 | - | 1.2 | 0.0 | 4.1 | - | 16 | L.G. | 2 | 1,8 | 7 | 2 | SE | 2 | SW | | |
| - | - | M | 0 | - | 28.2 | 33.40 | 10.10 | 2.32 | 2.3 | - | 1.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 28.1 | 33.60 | 10.20 | 2.26 | 5.3 | - | 1.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| 10/11 | 0906 | S | P | 4 | 27.9 | 32.86 | 9.91 | 2.35 | 3.3 | - | 1.9 | 0.1 | 4.1 | - | 22 | L.G. | 2 | 1,3,8 | 7 | 3 | E | 1 | NE | | |
| - | - | M | P | 0.1 | 28.1 | 33.01 | 9.98 | 2.34 | 3.7 | - | 1.8 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | P | 0.0 | 28.2 | 33.42 | 10.05 | 2.34 | 4.6 | - | 1.2 | 0.3 | - | - | - | - | - | - | - | - | - | - | | | |
| 11/14 | 0929 | S | P | 0.0 | 22.2 | 32.63 | 9.77 | 2.41 | 0.8 | - | 1.4 | 0.8 | 1.8 | - | 30 | L.G. | 4 | 8 | 6 | 5 | NE | 2 | NE | | |
| - | - | M | P | 0.0 | 22.2 | 33.08 | 9.85 | 2.40 | 1.2 | - | 0.9 | 0.0 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 23.8 | 34.87 | 10.48 | 2.40 | 2.3 | - | 1.0 | 0.2 | - | - | - | - | - | - | - | - | - | - | | | |
| 12/8 | 0925 | S | 0 | - | 17.2 | 32.72 | 10.01 | 2.43 | 1.2 | - | 0.8 | 0.3 | 0.6 | - | 18 | G. | 7 | 6,8 | 5 | 3 | SE | 1 | NE | | |
| - | - | M | 0 | - | 19.0 | 34.31 | 10.41 | 2.40 | 1.2 | - | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | | | |
| - | - | B | 0 | - | 19.1 | 34.31 | 10.34 | 2.40 | 1.7 | - | 0.6 | 0.5 | - | - | - | - | - | - | - | - | - | - | | | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 0924 | S | 0 | - | 14.6 | 34.45 | 10.20 | 2.38 | 1.8 | - | 1.6 | 0.1 | 0.0 | 8.0 | 0.0 | 55.0 | - | G. | 7 | 2,6 | 6 | 4 | NE | 1 | NE |
| - | - | M | 0 | - | 14.7 | 34.34 | 10.20 | 2.38 | 1.1 | - | 1.7 | 0.1 | - | - | - | 13.8 | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 14.7 | 35.08 | 10.50 | 2.38 | 1.8 | - | 0.6 | 0.1 | - | - | - | 7.0 | - | - | - | - | - | - | - | | |
| 2/28 | 0938 | S | P | 0.2 | 19.0 | 34.43 | 10.55 | 2.44 | 2.5 | - | 1.2 | 0.1 | 13.7 | 2.1 | 56.7 | 6½ | M.G. | 1 | 0,1,2 | 7 | 2 | SE | 2 | SE | |
| - | - | M | P | 0.3 | 18.7 | 34.38 | 10.45 | 2.44 | 2.3 | - | 0.9 | 0.1 | - | - | - | 5.3 | - | - | - | - | - | - | - | | |
| - | - | B | P | 0.0 | 18.2 | 34.92 | 10.69 | 2.45 | 2.4 | - | 0.6 | 0.3 | - | - | - | 2.5 | - | - | - | - | - | - | - | | |
| 3/2 | 0918 | S | 0 | - | 19.8 | 34.43 | 10.45 | 2.43 | 3.6 | - | 1.3 | - | 12.7 | 0.3 | - | 9 | G. | 7 | 8 | 6 | 3 | N | 1 | NW | |
| - | - | M | 0 | - | 19.8 | 34.42 | 10.38 | 2.42 | 2.0 | - | 1.4 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 19.4 | 34.43 | 10.32 | 2.44 | 2.2 | - | 0.4 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/15 | 0917 | S | 0 | - | 25.6 | 35.16 | 10.74 | 2.46 | 2.7 | - | 1.9 | 0.1 | 1.8 | 16.1 | 2.6 | 66.7 | 27 | G. | 0 | - | 7 | 1 | SE | 1 | S |
| - | - | M | P | 0.0 | 25.2 | 35.44 | 10.85 | 2.46 | 2.1 | - | 1.1 | 0.2 | - | - | - | 25.0 | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 25.1 | 35.53 | 10.94 | 2.48 | 2.2 | - | 0.7 | 0.0 | - | - | - | 11.8 | - | - | - | - | - | - | - | | |
| 6/5 | 0908 | S | P | 0.0 | 26.8 | 35.17 | 10.63 | 2.47 | 2.5 | - | 1.0 | 0.4 | 32.6 | 2.9 | 70.0 | 27 | D.G. | 5 | 8,4 | 7 | 2 | SE | 1 | SE | |
| - | - | M | 0 | - | 26.8 | 35.17 | 10.76 | 2.46 | 2.5 | - | 0.8 | 0.3 | - | - | - | 29.5 | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 26.5 | 35.57 | 10.75 | 2.46 | 3.2 | - | 0.8 | 2.0 | - | - | - | 18.3 | - | - | - | - | - | - | - | | |
| 7/10 | 0916 | S | 0 | - | 30.3 | 35.88 | 10.90 | 2.46 | 0.3 | - | 0.8 | 1.7 | 1.2 | 20.4 | 2.9 | 33.3 | 25 | G. | 5 | 1,8 | 7 | 1 | SE | 0 | |
| - | - | M | 0 | - | 30.2 | 35.97 | 11.00 | 2.47 | 0.9 | - | 0.8 | 0.3 | - | - | - | 13.8 | - | - | - | - | - | - | - | | |
| - | - | B | 0 | - | 29.9 | 35.99 | 11.00 | 2.46 | 2.8 | - | 0.8 | 1.6 | - | - | - | 5.5 | - | - | - | - | - | - | - | | |

| STATION 21 | | Depth of 48 feet | | Lat. 27°35.8' N. | | Long. 82°57.1' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Sea | | | | |
|------------|------|------------------|---|------------------|------|-------------------|-------|------------|-----------------|-----------------|-----------------|-------|--------|-------|------|-----|---------|-----|----|-----|
| Date | Time | Cymmodium | | °C | Sal | Ca | Alk | Si | PO ₄ | NO ₃ | NH ₃ | Org | Transp | Color | U.A. | CF | Wind | Dir | | |
| | | C | M | | | | | | | | | | | | | | | | | |
| 1960 | | | | | | | | | | | | | | | | | | | | |
| 1/11 | 1007 | 1 | P | 0.0 | 19.3 | 33.33 | - | - | 1.1 | 1.5 | 0.2 | - | - | 32 | D.G. | 2 | - | 2 | NE | |
| - | - | 2 | 0 | - | 19.3 | 34.33 | - | - | 0.3 | 0.8 | 0.5 | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 0.0 | 19.4 | 34.56 | - | - | 0.3 | 0.6 | 0.3 | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 19.6 | 34.58 | - | - | 0.5 | 0.7 | 0.3 | - | - | - | - | - | - | - | - | |
| 2/24 | 1007 | 1 | P | 48 | 15.2 | 33.57 | - | - | 0.6 | 1.1 | 0.1 | - | - | 10 | M.G. | 8 | - | 4 | E | |
| - | - | 2 | P | 150 | 15.2 | 33.62 | - | - | 0.4 | 1.0 | 0.2 | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 20 | 15.5 | 33.86 | - | - | 0.4 | 0.9 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 25 | 15.5 | 34.33 | - | - | 0.3 | 0.7 | 0.1 | - | - | - | - | - | - | - | - | |
| 3/23 | 1000 | 1 | P | 180 | 15.6 | 31.46 | - | - | 0.4 | 0.6 | 0.3 | - | - | 11 | L.G. | 0 | - | 2 | SW | |
| - | - | 2 | P | 26 | 15.4 | 32.52 | - | - | 0.4 | 0.4 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 22 | 15.4 | 34.74 | - | - | 0.5 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 16 | 15.4 | 34.49 | - | - | 0.4 | 0.6 | 0.3 | - | - | - | - | - | - | - | - | |
| 4/19 | 1010 | 1 | P | 21 | 22.0 | 33.93 | 10.24 | 2.34 | 0.8 | 1.6 | 0.2 | 10.6 | - | 36 | D.G. | 5 | 1,8 | 8 | 3 | NE |
| - | - | 2 | P | 0.4 | 20.5 | 34.36 | 10.35 | 2.40 | 0.4 | 0.8 | 0.2 | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 19.5 | 34.61 | 10.33 | 2.40 | 0.5 | 0.7 | 0.2 | - | - | - | - | - | - | - | - | |
| - | - | 4 | 0 | - | 18.8 | 34.79 | 10.33 | 2.40 | 0.8 | 0.7 | 0.5 | - | - | - | - | - | - | - | - | |
| 5/17 | 0841 | 1 | P | 0.0 | 24.0 | 34.42 | 10.30 | 2.34 | 0.6 | 1.6 | 0.2 | 0.6 | - | 30 | D.G. | 0 | - | 7 | 1 | NW |
| - | - | 2 | 0 | - | 23.7 | 34.29 | 10.44 | 2.37 | 0.5 | 1.7 | 0.2 | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 22.1 | 34.34 | 10.60 | 2.39 | 0.5 | 1.0 | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | 0 | - | 22.1 | 35.34 | 10.73 | 2.41 | 0.8 | 0.7 | 0.2 | - | - | - | - | - | - | - | - | |
| 6/15 | 1025 | 1 | 0 | - | 26.8 | 35.07 | 10.58 | 2.42 | 2.0 | 1.4 | 0.1 | - | - | 38 | B.G. | 2 | 8 | 8 | 1 | WNW |
| - | - | 2 | 0 | - | 26.6 | 35.07 | 10.60 | 2.41 | 2.0 | 1.5 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 26.4 | 35.16 | 10.60 | 2.42 | 2.0 | 1.5 | 0.2 | - | - | - | - | - | - | - | - | |
| - | - | 4 | 0 | - | 26.4 | 35.26 | 10.65 | 2.42 | 2.1 | 1.2 | 0.2 | - | - | 16 | G. | 6 | 8 | 8 | 0 | 0 |
| 7/7 | 0842 | 1 | 0 | - | 30.5 | 34.74 | 10.52 | 2.42 | 0.7 | 2.3 | 0.1 | 2.4 | - | - | - | - | - | - | - | |
| - | - | 2 | 0 | - | 30.4 | 34.81 | 10.58 | 2.44 | 0.5 | 0.8 | 0.4 | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 29.2 | 35.25 | 10.55 | 2.42 | 1.7 | 2.2 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 4 | 0 | - | 29.2 | 35.34 | 10.65 | 2.42 | 2.5 | 1.1 | 0.2 | - | - | - | - | - | - | - | - | |
| 8/4 | 1020 | 1 | P | 90 | 29.3 | 33.95 | 10.47 | 2.33 | 1.2 | 1.3 | 0.1 | 0.0 | - | 11½ | D.G. | 7 | 2,3,4,8 | 7 | 3 | S |
| - | - | 2 | P | 10 | 29.0 | 33.95 | 10.38 | 2.32 | 1.2 | 1.1 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 8 | 28.9 | 34.58 | 10.55 | 2.36 | 1.5 | 1.0 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 3.4 | 28.9 | 35.32 | 10.74 | 2.38 | 2.1 | 0.5 | 0.1 | - | - | - | - | - | - | - | - | |
| 9/27 | 0933 | 1 | P | 0.0 | 28.2 | 33.68 | 10.25 | 2.27 | 3.2 | 0.9 | 0.1 | 2.9 | - | 28 | G. | 3 | 8 | 7 | 2 | SE |
| - | - | 2 | P | 0.0 | 28.2 | 33.69 | 10.22 | 2.30 | 3.4 | 1.0 | 0.0 | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 28.2 | 33.93 | 10.26 | 2.29 | 3.9 | 1.0 | 0.0 | - | - | - | - | - | - | - | - | |
| - | - | 4 | 0 | - | 28.2 | 34.29 | 10.37 | 2.30 | 3.9 | 0.8 | 0.1 | - | - | - | - | - | - | - | - | |
| 10/11 | 0927 | 1 | P | 0.1 | 27.9 | 33.01 | 9.90 | 2.36 | 3.1 | 1.8 | 0.6 | 2.4 | - | 23 | G. | 2 | 3,8 | 7 | 3 | E |
| - | - | 2 | P | 0.1 | 28.0 | 32.94 | 9.90 | 2.35 | 3.0 | 1.8 | 0.1 | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 28.2 | 33.39 | 9.93 | 2.34 | 3.7 | 1.0 | 0.4 | - | - | - | - | - | - | - | - | |
| - | - | 4 | 0 | - | 28.2 | 34.69 | 10.50 | 2.42 | 3.6 | 0.8 | 0.4 | - | - | - | - | - | - | - | - | |
| 11/14 | 0952 | 1 | P | 0.0 | 22.0 | 33.31 | 9.96 | 2.40 | 1.6 | 0.7 | 0.0 | 1.8 | - | 36 | D.G. | 1 | 8 | 6 | 5 | NE |
| - | - | 2 | 0 | - | 22.5 | 33.31 | 10.10 | 2.39 | 1.3 | 0.8 | 0.0 | - | - | 45.4 | - | - | - | - | - | |
| - | - | 3 | 0 | - | 23.3 | 34.33 | 10.32 | 2.41 | 1.7 | 0.8 | 1.0 | - | - | 19.3 | - | - | - | - | - | |
| - | - | 4 | 0 | - | 23.8 | 35.05 | 10.52 | 2.42 | 2.0 | 0.8 | 0.1 | - | - | 11.0 | - | - | - | - | - | |
| 12/8 | 1004 | 1 | 0 | - | 17.3 | 32.68 | 10.01 | 2.41 | 1.9 | 0.7 | 0.2 | 0.6 | - | 49.2 | L.G. | 6 | 6,8 | 4 | 1 | N |
| - | - | 2 | 0 | - | 17.3 | 33.80 | 10.21 | 2.41 | 1.7 | 0.7 | 0.2 | - | - | 16.9 | - | - | - | - | - | |
| - | - | 3 | 0 | - | 19.2 | 32.75 | 9.95 | 2.42 | 2.1 | 0.5 | 0.1 | - | - | 9.0 | - | - | - | - | - | |
| - | - | 4 | 0 | - | 19.3 | 34.38 | 10.35 | 2.40 | 3.1 | 0.8 | 0.1 | - | - | 5.6 | - | - | - | - | - | |

| Date | Time | Depth | Gymnodinium | | *C | Sal | CA | Alk | Si | Phosphorus | | Nitrogen | | | Water | | | Sky | | | Wind | | | Sea | | |
|------|------|-------|-------------|-----|------|-------|-------|------|-----|-----------------|-----|-----------------|-----------------|------|-------|-------|--------|-------|----|-------|------|----|-----|-----|-----|-----|
| | | | breve | M | | | | | | PO ₄ | In | NO ₃ | NH ₃ | Org | In | Light | Transp | Color | CA | CT | VI | VI | Amt | Dir | Amt | Dir |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 0945 | 1 | 0 | - | 14.8 | 34.34 | 10.40 | 2.38 | 1.0 | - | 2.0 | 0.2 | 1.8 | 8.3 | 2.3 | 53.8 | - | G. | 7 | 6 | 6 | 4 | ENE | 2 | ENE | |
| - | - | 2 | 0 | - | 14.8 | 34.70 | 10.60 | 2.38 | 1.0 | - | 1.5 | 0.2 | - | - | - | 22.2 | - | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 14.8 | 35.10 | 10.50 | 2.38 | 1.2 | - | 0.6 | 0.2 | - | - | - | 11.5 | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 14.7 | 35.23 | 10.57 | 2.38 | 0.9 | - | 0.8 | 0.2 | - | - | - | 7.7 | - | - | - | - | - | - | - | - | - | |
| 2/28 | 1003 | 1 | P | 0.2 | 18.9 | 34.60 | 10.50 | 2.43 | 1.9 | - | 1.0 | 0.1 | - | 13.7 | 1.3 | 56.7 | 6 | M.G. | 1 | 0,1,2 | 7 | 3 | SE | 2 | SE | |
| - | - | 2 | P | 0.0 | 18.2 | 34.61 | 10.48 | 2.42 | 1.7 | - | 1.0 | 0.2 | - | - | - | 21.1 | - | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 0.0 | 18.2 | 35.07 | 10.69 | 2.44 | 1.7 | - | 0.4 | 0.1 | - | - | - | 6.8 | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 18.2 | 34.60 | 10.60 | 2.43 | 2.7 | - | 1.0 | 0.2 | - | - | - | 2.0 | - | - | - | - | - | - | - | - | - | |
| 3/2 | 0938 | 1 | P | 0.0 | 19.4 | 34.88 | 10.50 | 2.43 | 2.4 | - | 0.9 | - | - | 12.4 | 0.1 | - | - | G. | 7 | 8 | 6 | 4 | N | 1 | NW | |
| - | - | 2 | P | 0.0 | 19.3 | 34.88 | 10.57 | 2.42 | 2.8 | - | 0.8 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 0.0 | 19.0 | 34.99 | 10.44 | 2.43 | 2.3 | - | 0.7 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 19.0 | 34.99 | 10.50 | 2.42 | 2.4 | - | 0.8 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/15 | 0938 | 1 | 0 | - | 25.2 | 35.59 | 10.68 | 2.45 | 1.7 | - | 0.7 | 0.1 | 2.9 | 12.6 | 3.9 | 65.0 | 30 | G. | 0 | - | 8 | 1 | SE | 1 | S | |
| - | - | 2 | P | 0.1 | 25.0 | 35.77 | 10.97 | 2.45 | 1.4 | - | 0.7 | 0.2 | - | - | - | 33.0 | - | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 24.8 | 35.62 | 10.90 | 2.45 | 1.8 | - | 0.6 | 0.2 | - | - | - | 24.0 | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 24.6 | 35.62 | 10.80 | 2.45 | 1.6 | - | 0.6 | 1.0 | - | - | - | 15.0 | - | - | - | - | - | - | - | - | - | |
| 6/5 | 0931 | 1 | 0 | - | 26.6 | 35.35 | 10.78 | 2.42 | 2.0 | - | 1.1 | 0.3 | - | 32.3 | 4.4 | 68.4 | 30 | D.G. | 4 | 4,8 | 7 | 2 | SE | 1 | SE | |
| - | - | 2 | 0 | - | 26.6 | 35.35 | 10.78 | 2.44 | 2.4 | - | 0.7 | - | - | - | - | 37.5 | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 26.6 | 35.35 | 10.70 | 2.44 | 2.0 | - | 0.8 | 0.8 | - | - | - | 26.3 | - | - | - | - | - | - | - | - | | |
| - | - | 4 | P | 0.0 | 26.4 | 35.48 | 10.80 | 2.44 | 1.7 | - | 0.7 | 0.5 | - | - | - | 13.8 | - | - | - | - | - | - | - | - | | |
| 7/10 | 0936 | 1 | 0 | - | 30.3 | 36.06 | 11.00 | 2.47 | 0.8 | - | 1.2 | 0.1 | - | 32.0 | 2.4 | 28.3 | 25 | G. | 6 | 1,8 | 7 | 0 | - | 0 | | |
| - | - | 2 | 0 | - | 30.2 | 36.02 | 10.93 | 2.47 | 0.8 | - | 1.0 | 0.2 | - | - | - | 18.6 | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 29.8 | 36.06 | 10.90 | 2.46 | 0.6 | - | 0.6 | 1.4 | - | - | - | 5.3 | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 29.7 | 36.06 | 11.00 | 2.46 | 0.6 | - | 0.5 | 0.8 | - | - | - | 3.7 | - | - | - | - | - | - | - | - | | |

| STATION 23 | | Depth of 78 feet | | Lat. 27°35.8' N. | | Long. 83°08.2' W. | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | |
|------------|------|------------------|----------------------|------------------|-------|-------------------|-------|------------|-----|----------|-----|-------|--------|-------|----|---------|----|-----|-----|-----|-----------------|
| Date | Time | Depth | Gymnodinium breve | °C | Sal | Ca | Alk | Si | PO4 | | NO3 | | Transp | Color | CA | CT | VI | Dir | Amt | Dir | |
| | | | | | | | | | In | M | In | Org | | | | | | | | | Light transm |
| 1960 | | | | | | | | | | | | | | | | | | | | | |
| 1/11 | 1156 | 1 | 0 | 19.6 | 34.87 | - | - | - | 0.1 | 0.5 | 0.6 | - | 36 | D.G. | 6 | - | - | 3 | NE | 2 | NE |
| - | - | 2 | P | 0.0 | 19.6 | 35.08 | - | - | 0.3 | 0.6 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | P | 0.0 | 19.7 | 35.25 | - | - | 0.4 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | P | 0.0 | 20.2 | 35.62 | - | - | 0.1 | 0.5 | 0.5 | - | - | - | - | - | - | - | - | - | - |
| 2/24 | 1053 | 1 | P | 17.5 | 34.76 | - | - | - | 0.3 | 0.7 | 0.3 | - | 14 | G. | 8 | - | - | 4 | ESE | 2 | NW |
| - | - | 2 | P | 68 | 15.7 | 34.76 | - | - | 0.2 | 0.6 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | P | 10 | 15.6 | 34.76 | - | - | 0.1 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | P | 0.8 | 15.7 | 35.26 | - | - | 0.4 | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 3/23 | 1045 | 1 | P | 220 | 15.7 | 32.30 | - | - | 0.4 | 0.4 | 0.1 | - | 12 | L.G. | 0 | - | - | 2 | SW | 2 | SW |
| - | - | 2 | P | 5 | 15.4 | 34.13 | - | - | 0.3 | 0.4 | 0.3 | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | P | 4 | 15.4 | 34.90 | - | - | 0.3 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | P | 8 | 15.1 | 35.57 | - | - | 0.3 | 0.5 | 0.1 | - | - | - | - | - | - | - | - | - | - |
| 4/19 | 1057 | 1 | P | 3.2 | 21.2 | 34.52 | 10.25 | 2.39 | 0.4 | - | 0.4 | 0.2 | 36 | B.G. | 4 | 1,8 | 8 | 3 | NE | 2 | NE |
| - | - | 2 | P | 0.0 | 20.8 | 34.65 | 10.50 | 2.40 | 0.3 | - | 0.8 | 0.1 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 19.1 | 34.45 | 10.22 | 2.40 | 0.2 | - | 0.5 | 0.1 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | P | 0.0 | 16.2 | 35.37 | 10.66 | 2.42 | 0.8 | - | 0.6 | 0.2 | - | - | - | - | - | - | - | - | - |
| 5/17 | 0931 | 1 | P | 0.0 | 23.2 | 35.44 | 10.76 | 2.41 | 0.5 | - | 0.3 | 0.2 | 35 | B. | 1 | 6 | 8 | 1 | N | 0 | - |
| - | - | 2 | P | 0.0 | 22.9 | 35.52 | 10.73 | 2.41 | 0.1 | - | 0.4 | 0.3 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 22.6 | 35.55 | 10.73 | 2.41 | 0.1 | - | 0.4 | 0.2 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 20.8 | 35.71 | 10.80 | 2.40 | 0.7 | - | 0.7 | 0.2 | - | - | - | - | - | - | - | - | - |
| 6/15 | 1115 | 1 | 0 | - | 26.8 | 35.53 | 10.75 | 2.42 | 1.8 | - | 0.8 | 0.1 | 44 | B. | 2 | 8 | 8 | 1 | WNW | 1 | NW |
| - | - | 2 | 0 | - | 26.4 | 35.53 | 10.65 | 2.42 | 1.0 | - | 0.6 | 0.2 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 26.3 | 35.53 | 10.60 | 2.41 | 1.1 | - | 0.8 | 0.1 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 24.6 | 35.71 | 10.83 | 2.42 | 2.5 | - | 0.6 | 0.4 | - | - | - | - | - | - | - | - | - |
| 7/7 | 0926 | 1 | 0 | - | 30.4 | 35.71 | 10.65 | 2.43 | 0.5 | - | 0.4 | 0.1 | 18 | G. | 6 | 8 | 8 | 1 | SW | 0 | - |
| - | - | 2 | 0 | - | 28.4 | 35.55 | 10.78 | 2.42 | 0.0 | - | 0.6 | 0.2 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 27.8 | 35.95 | 10.85 | 2.42 | 0.1 | - | 0.5 | 0.1 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 27.0 | 36.08 | 11.05 | 2.44 | 3.3 | - | 0.6 | 0.6 | - | - | - | - | - | - | - | - | - |
| 8/4 | 1110 | 1 | P | 150 | 29.2 | 35.52 | 10.84 | 2.38 | 3.0 | - | 0.5 | 0.1 | 24 | B.G. | 7 | 1,3,4,8 | 7 | 3 | SE | 2 | SE |
| - | - | 2 | P | 39 | 29.1 | 35.44 | 10.72 | 2.40 | 2.4 | - | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | P | 38 | 29.1 | 35.46 | 10.75 | 2.40 | 2.3 | - | 0.7 | 0.4 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | P | 11.8 | 28.9 | 35.52 | 10.85 | 2.40 | 2.3 | - | 1.3 | 0.2 | - | - | - | - | - | - | - | - | - |
| 9/27 | 1010 | 1 | P | 0.0 | 28.4 | 34.90 | 10.60 | 2.32 | 2.2 | - | 0.5 | 0.0 | 48 | B.G. | 3 | 8 | 7 | 3 | SE | 2 | SW |
| - | - | 2 | 0 | - | 28.2 | 35.19 | 10.70 | 2.32 | 2.4 | - | 0.5 | 0.1 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | P | 0.0 | 28.0 | 35.34 | 10.60 | 2.34 | 2.2 | - | 0.3 | 0.0 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 27.2 | 35.25 | 10.74 | 2.27 | 2.2 | - | 0.5 | 0.1 | - | - | - | - | - | - | - | - | - |
| 10/11 | 1013 | 1 | P | 0.2 | 28.3 | 33.57 | 10.16 | 2.37 | 2.4 | - | 0.8 | 0.1 | 29 | D.G. | 2 | 3,8 | 7 | 3 | NE | 1 | NE |
| - | - | 2 | P | 0.0 | 28.2 | 35.57 | 10.75 | 2.44 | 1.4 | - | 0.6 | 0.3 | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 28.2 | 35.61 | 10.81 | 2.42 | 1.3 | - | 0.6 | 0.5 | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 28.9 | 35.62 | 10.76 | 2.45 | 1.5 | - | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - |
| 11/14 | 1048 | 1 | P | 0.0 | 23.2 | 34.09 | 10.23 | 2.41 | 1.9 | - | 0.9 | 0.7 | 57.8 | D.G. | 1 | 4,8 | 7 | 5 | NE | 2 | NE |
| - | - | 2 | 0 | - | 23.0 | 34.09 | 10.25 | 2.42 | 2.3 | - | 0.8 | 0.2 | 14.6 | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 24.1 | 35.16 | 10.61 | 2.82 | 2.7 | - | 0.6 | 0.5 | 6.5 | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 24.3 | 35.34 | 10.51 | 2.40 | 2.6 | - | 0.5 | 0.5 | 2.4 | - | - | - | - | - | - | - | - |
| 12/8 | 1037 | 1 | 0 | - | 20.0 | 34.97 | 10.56 | 2.42 | 2.1 | - | 0.8 | 0.1 | 27.3 | B.G. | 5 | 1,6,8 | 6 | 6 | ENE | 1 | NE |
| - | - | 2 | P | 0.0 | 20.0 | 34.94 | 10.56 | 2.42 | 1.0 | - | 0.6 | 0.3 | 20.4 | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 21.0 | 35.55 | 10.80 | 2.42 | 3.6 | - | 0.5 | 0.1 | 9.8 | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 21.0 | 35.84 | 10.85 | 2.45 | 3.2 | - | 0.4 | 0.2 | 5.3 | - | - | - | - | - | - | - | - |

| STATION 23 (Continued) | | Depth of 78 feet | | | | Lat. 27°35.8' N. | | | | Long. 83°08.2' W. | | | | Phosphorus | | | | Nitrogen | | | | Water | | | | Sky | | | | Wind | | | | Sea | | | |
|------------------------|------|------------------|-------------|-----|------|------------------|-------|------|-----|-------------------|-----|--------------------|--------------------|-----------------|------|------|--------------|----------|-------|-------|----|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|
| Date | Time | Depth | Gymnodinium | | °C | Sal | Ca | Alk | Si | PO ₄ | | NO ₃ -N | NO ₂ -N | NH ₃ | Org | In | Light transp | Transp | Color | CA | CT | VI | Dir | Amt | Dir | Amt | Dir | Amt | Dir | Dir | Dir | | | | | | |
| | | | C | M | | | | | | In | Tot | | | | | | | | | | | | | | | | | | | | | NO ₃ | NO ₂ | NO ₂ -N | NO ₃ | NO ₂ | NO ₂ -N |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1039 | 1 | P | 0.0 | 15.2 | 35.66 | 10.70 | 2.41 | 0.8 | - | 0.7 | 0.1 | - | 3.7 | 1.3 | 50.0 | 7 | B.G. | 6 | 4,6,8 | 6 | 4 | ENE | 2 | ENE | 2 | ENE | 2 | ENE | 2 | ENE | | | | | | |
| - | - | 2 | P | 0.0 | 15.2 | 35.68 | 10.65 | 2.42 | 0.8 | - | 0.4 | 0.1 | - | - | - | 25.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| - | - | 3 | 0 | - | 15.2 | 35.66 | 10.83 | 2.41 | 1.2 | - | 0.5 | 0.3 | - | - | - | 11.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| - | - | 4 | P | 0.0 | 15.2 | 35.82 | 10.90 | 2.43 | 1.9 | - | 0.5 | 0.1 | - | - | - | 6.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 2/28 | 1054 | 1 | P | 0.1 | 18.6 | 35.66 | 10.99 | 2.44 | 2.2 | - | 0.5 | 0.1 | 0.0 | 9.1 | 0.1 | 55.3 | 7 | L.G. | 1 | 0,1,2 | 7 | 2 | SE | 2 | SSE | 2 | SSE | 2 | SSE | 2 | SSE | | | | | | |
| - | - | 2 | 0 | - | 18.0 | 35.61 | 10.87 | 2.44 | 2.0 | - | 0.2 | 0.1 | - | - | - | 11.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| - | - | 3 | 0 | - | 17.2 | 35.52 | 10.80 | 2.43 | 2.4 | - | 0.1 | 0.1 | - | - | - | 3.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| - | - | 4 | 0 | - | 17.0 | 35.52 | 10.72 | 2.46 | 2.7 | - | 0.4 | 0.2 | - | - | - | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 3/2 | 1025 | 1 | 0 | - | 18.9 | 35.61 | 10.70 | 2.42 | 2.3 | - | 0.5 | 0.5 | 0.6 | 10.3 | 3.1 | - | 14 | G. | 3 | 1,6,8 | 6 | 4 | N | 2 | NW | 2 | NW | 2 | NW | 2 | NW | | | | | | |
| - | - | 2 | 0 | - | 18.7 | 35.61 | 10.80 | 2.43 | 1.8 | - | 0.8 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| - | - | 3 | 0 | - | 17.6 | 35.61 | 10.80 | 2.48 | 2.3 | - | 0.4 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 4 | 0 | - | 17.4 | 35.73 | 10.90 | 2.43 | 1.8 | - | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| 5/15 | 1029 | 1 | 0 | - | 25.7 | 36.04 | 10.97 | 2.44 | 2.9 | - | 0.3 | 0.1 | 1.8 | 11.3 | 4.6 | 66.7 | 38 | B.G. | 1 | 6 | 8 | 0 | - | 1 | S | 1 | S | 1 | S | 1 | S | | | | | | |
| - | - | 2 | 0 | - | 24.5 | 36.04 | 11.05 | 2.44 | 1.1 | - | 0.3 | 0.5 | - | - | - | 31.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 3 | 0 | - | 24.0 | 36.09 | 11.07 | 2.45 | 1.1 | - | 0.3 | 0.2 | - | - | - | 18.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 4 | 0 | - | 24.0 | 36.11 | 10.92 | 2.44 | 0.8 | - | 0.3 | 0.2 | - | - | - | 9.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| 6/5 | 1024 | 1 | 0 | - | 26.6 | 35.66 | 10.85 | 2.44 | 2.4 | - | 1.2 | 1.2 | - | 33.7 | 1.3 | 68.2 | 35 | B.G. | 2 | 2,6 | 7 | 1 | SE | 1 | SE | 1 | SE | 1 | SE | 1 | SE | | | | | | |
| - | - | 2 | 0 | - | 26.4 | 35.66 | 10.85 | 2.4 | 2.6 | - | 0.9 | 1.3 | - | - | - | 31.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 3 | 0 | - | 26.0 | 35.43 | 10.90 | 2.44 | 1.5 | - | 0.5 | 0.4 | - | - | - | 20.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 4 | 0 | - | 25.2 | 36.02 | 10.81 | 2.44 | 2.6 | - | 0.8 | 0.3 | - | - | - | 8.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| 7/10 | 1026 | 1 | 0 | - | 29.6 | 36.31 | 10.97 | 2.46 | 2.7 | - | 0.4 | 1.0 | 2.4 | 18.1 | 12.0 | 43.9 | 35 | B. | 5 | 1,8 | 7 | 2 | SSE | 0 | SSE | 0 | SSE | 0 | SSE | 0 | SSE | | | | | | |
| - | - | 2 | 0 | - | 29.2 | 36.31 | 11.00 | 2.45 | 1.5 | - | 0.4 | 1.0 | - | - | - | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 3 | 0 | - | 29.2 | 36.27 | 11.08 | 2.46 | 2.0 | - | 0.7 | 1.4 | - | - | - | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| - | - | 4 | 0 | - | 28.6 | 36.27 | 11.10 | 2.45 | 2.2 | - | 0.4 | 0.3 | - | - | - | 7.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |

| STATION 25 (Continued) | | Depth of 101 feet | | Lat. 27° 35.8' N. | | Long. 83° 19.5' W. | | Cymodinium | | Phosphorus | | Nitrogen | | Water | | Sky | | Wind | | Sea | | | | | | | |
|------------------------|------|-------------------|------|-------------------|-------|--------------------|------|------------|-----------------|-----------------|--------------------|-----------------|-----------------|-------|------|--------------|--------|-------|----|-------|----|-----|-----|-----|-----|-----|---|
| Date | Tide | Depth | Temp | Sal | Ca | Alk | Si | In | PO ₄ | NO ₃ | NO ₂ -N | NO ₃ | NH ₃ | Org | In | Light trans. | Transp | Color | CA | CT | VI | Dir | Amt | Dir | Amt | Dir | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1 | 0 | - | 16.1 | 36.11 | 11.05 | 2.43 | 3.0 | - | 1.0 | 0.1 | - | 9.7 | 0.0 | 26.9 | - | - | B. | 7 | 6,4,8 | 6 | 4 | ENE | 2 | NNW | | |
| - | 2 | 0 | - | 16.1 | 36.26 | 10.81 | 2.42 | 1.8 | - | 0.6 | 0.0 | - | - | - | 17.3 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 3 | 0 | - | 16.1 | 36.26 | 11.00 | 2.43 | 0.8 | - | 0.4 | 0.1 | - | - | - | 11.5 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 4 | 0 | - | 16.0 | 36.09 | 10.87 | 2.43 | 1.4 | - | 0.8 | 0.2 | - | - | - | 3.7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2/28 | 1 | P | 0.1 | 17.8 | 35.88 | 10.93 | 2.44 | 1.1 | - | 0.2 | 0.1 | - | 8.9 | 1.6 | 47.6 | - | - | B.G. | 1 | 0,1,2 | 7 | 3 | SSE | 2 | SE | | |
| - | 2 | 0 | - | 17.2 | 35.91 | 11.03 | 2.44 | 2.3 | - | 0.3 | 0.2 | - | - | - | 19.6 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 3 | P | 0.0 | 17.0 | 35.91 | 10.96 | 2.44 | 2.1 | - | 0.2 | 0.3 | - | - | - | 9.5 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 4 | 0 | - | 15.4 | 35.91 | 11.08 | 2.44 | 2.8 | - | 0.6 | 0.2 | - | - | - | 0.9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/2 | 1 | U | - | 18.2 | 35.88 | 10.90 | 2.44 | 2.1 | - | 1.0 | 0.2 | 2.4 | 9.1 | - | - | - | - | B. | 9 | 6,8 | 6 | 4 | WNW | 2 | NNW | | |
| - | 2 | 0 | - | 17.9 | 35.88 | 10.90 | 2.44 | 1.4 | - | 0.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 3 | P | 0.0 | 17.3 | 35.88 | 10.90 | 2.44 | 1.6 | - | 0.4 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 4 | 0 | - | 15.9 | 35.88 | 10.85 | 2.44 | 3.9 | - | 0.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5/15 | 1 | U | - | 25.7 | 36.29 | 11.11 | 2.44 | 1.8 | - | 0.3 | 1.2 | 0.0 | 10.4 | 1.1 | 69.2 | - | - | B. | 1 | 1,8 | 8 | 1 | W | 1 | S | | |
| - | 2 | 0 | - | 23.7 | 36.26 | 11.08 | 2.44 | 1.9 | - | 0.3 | 0.1 | - | - | - | 38.5 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 3 | 0 | - | 23.5 | 36.29 | 11.00 | 2.45 | 1.8 | - | 0.4 | 0.3 | - | - | - | 19.4 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 4 | 0 | - | 23.4 | 36.20 | 10.98 | 2.43 | 1.5 | - | 0.3 | 0.0 | - | - | - | 7.4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6/5 | 1 | 0 | - | 26.7 | 35.99 | 10.81 | 2.45 | 1.7 | - | 0.8 | 0.9 | - | 27.9 | 1.3 | 60.0 | - | - | B. | 2 | 2,8 | 7 | 2 | E | 1 | E | | |
| - | 2 | 0 | - | 26.2 | 35.91 | 10.88 | 2.44 | 3.1 | - | 0.6 | 0.9 | - | - | - | 28.0 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 3 | 0 | - | 25.6 | 36.15 | 11.04 | 2.45 | 1.5 | - | 0.4 | 0.4 | - | - | - | 16.0 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 4 | 0 | - | 24.6 | 36.18 | 11.00 | 2.45 | 2.5 | - | 0.6 | 0.5 | - | - | - | 6.5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 7/10 | 1 | 0 | - | 30.7 | 36.38 | 11.10 | 2.46 | 2.1 | - | 0.3 | 0.2 | 0.6 | 16.1 | 4.4 | 53.1 | - | - | B. | 5 | 1,8 | 7 | 3 | NW | 0 | | | |
| - | 2 | 0 | - | 28.9 | 36.31 | 11.10 | 2.46 | 2.7 | - | 0.5 | 2.8 | - | - | - | 16.4 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 3 | 0 | - | 28.3 | 36.31 | 11.10 | 2.46 | 2.3 | - | 0.3 | 1.3 | - | - | - | 7.8 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 4 | 0 | - | 26.2 | 36.34 | 11.10 | 2.45 | 3.3 | - | 0.3 | 4.0 | - | - | - | 4.8 | - | - | - | - | - | - | - | - | - | - | - | - |

| Date | Time | Depth | Germadinitium | | C | M | °C | Sal | Ca | Alk | Si | Phosphorus | | Nitrogen | | | Light transmitt | Water Transp | Color | CA | CT | SKY | Wind Dir | Wind Amt | Sea Dir | Sea Amt | |
|-------|------|-------|---------------|------|------|-------|-------|------|-----|-----|----|------------|-----------------|-----------------|-----------------|------|-----------------|--------------|-------|----|---------|-----|----------|----------|---------|---------|----|
| | | | Breve | C | | | | | | | | In | PO ₄ | NO ₃ | NH ₃ | OrG | | | | | | | | | | | In |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/11 | 1234 | 1 | P | 0.0 | 20.7 | 36.08 | - | - | - | - | - | 0.1 | 0.2 | 0.3 | - | - | - | 40 | B. | 6 | - | - | - | 2 | NE | 0 | |
| - | - | 2 | 0 | - | 20.2 | 35.97 | - | - | - | - | - | 0.3 | 0.3 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 3 | 0 | - | 19.8 | 35.84 | - | - | - | - | - | 0.3 | 0.5 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 19.8 | 35.86 | - | - | - | - | - | 0.2 | 0.5 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2/24 | 1229 | 1 | P | 0.0 | 16.4 | 35.79 | - | - | - | - | - | 0.2 | 0.5 | 0.2 | - | - | - | 15 | B.G. | 8 | - | - | - | 4 | SE | 2 | |
| - | - | 2 | 0 | - | 16.4 | 36.08 | - | - | - | - | - | 0.3 | 0.6 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 16.3 | 36.08 | - | - | - | - | - | 0.2 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 16.3 | 36.02 | - | - | - | - | - | 0.1 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| 3/23 | 1217 | 1 | P | 300 | 16.6 | 34.56 | - | - | - | - | - | 0.3 | 0.6 | 0.1 | - | - | - | 33 | B.G. | 0 | - | - | - | 2 | SW | 2 | |
| - | - | 2 | P | 70 | 15.6 | 34.63 | - | - | - | - | - | 0.3 | 0.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | P | 20 | 15.5 | 35.55 | - | - | - | - | - | 0.1 | 0.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | P | 16.1 | 15.5 | 35.64 | - | - | - | - | - | 0.3 | 0.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| 4/19 | 1230 | 1 | P | 2.4 | 21.5 | 35.05 | 10.46 | 2.38 | 0.4 | - | - | 0.4 | 0.2 | 0.4 | 0.2 | 34.7 | - | 45 | B. | 4 | 1 | 8 | 3 | NE | 2 | NNW | |
| - | - | 2 | P | 0.0 | 19.8 | 35.14 | 10.43 | 2.42 | 0.1 | - | - | 0.3 | 0.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 16.3 | 35.91 | 10.64 | 2.40 | 1.8 | - | - | 0.6 | 0.2 | 0.6 | - | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 16.3 | 35.71 | 10.64 | 2.44 | 1.4 | - | - | 0.5 | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | | |
| 5/17 | 1112 | 1 | P | 0.0 | 24.1 | 35.46 | 10.77 | 2.29 | 0.2 | - | - | 0.4 | 0.4 | 0.2 | 0.4 | 5.9 | - | 41 | B. | 1 | 6 | 7 | 0 | - | 0 | | |
| - | - | 2 | 0 | - | 22.5 | 35.55 | 10.73 | 2.31 | 0.5 | - | - | 0.6 | 0.2 | 0.6 | 0.2 | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 18.6 | 35.93 | 10.81 | 2.37 | 0.7 | - | - | 0.3 | 0.2 | 0.3 | 0.2 | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 18.5 | 35.90 | 10.90 | 2.42 | 2.4 | - | - | 0.4 | 0.2 | 0.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | | |
| 6/15 | 1250 | 1 | 0 | - | 27.3 | 36.26 | 10.90 | 2.44 | 0.9 | - | - | 1.4 | 0.2 | 0.2 | - | - | - | 49 | B. | 1 | 8 | 8 | 1 | W | 1 | NW | |
| - | - | 2 | 0 | - | 25.0 | 36.08 | 10.80 | 2.43 | 0.7 | - | - | 0.5 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 25.0 | 36.22 | 10.94 | 2.46 | 1.2 | - | - | 0.5 | 0.2 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 22.0 | 36.04 | 10.77 | 2.45 | 2.6 | - | - | 0.8 | 0.9 | 0.9 | - | - | - | - | - | - | - | - | - | - | - | | |
| 7/7 | 1055 | 1 | 0 | - | 29.2 | 36.29 | 10.94 | 2.44 | 0.7 | - | - | 1.0 | 0.1 | 0.1 | 0.0 | - | - | 70 | B. | 5 | 8 | 8 | 1 | WSW | 2 | W | |
| - | - | 2 | 0 | - | 27.8 | 36.22 | 11.10 | 2.43 | 0.8 | - | - | 0.4 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 26.7 | 36.22 | 11.20 | 2.41 | 1.1 | - | - | 0.5 | 0.2 | 0.2 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 24.6 | 36.13 | 10.95 | 2.44 | 2.8 | - | - | 0.6 | 0.6 | 0.6 | 0.6 | - | - | - | - | - | - | - | - | - | - | | |
| 8/4 | 1255 | 1 | 0 | - | 29.0 | 35.79 | 10.85 | 2.40 | 1.1 | - | - | 0.5 | 0.2 | 0.2 | 2.9 | - | - | 41 | B.G. | 6 | 1,2,4,8 | 7 | 2 | SE | 2 | SE | |
| - | - | 2 | 0 | - | 28.5 | 35.75 | 10.78 | 2.41 | 1.2 | - | - | 0.4 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 28.5 | 35.75 | 10.88 | 2.40 | 1.0 | - | - | 0.4 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 24.3 | 36.04 | 10.97 | 2.40 | 3.6 | - | - | 0.5 | 0.2 | 0.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | | |
| 9/27 | 1158 | 1 | 0 | - | 28.4 | 35.73 | 10.90 | 2.36 | 1.8 | - | - | 0.3 | 0.1 | 0.1 | 2.4 | - | - | 70 | B. | 4 | 1,8 | 7 | 0 | - | 1 | W | |
| - | - | 2 | P | 0.0 | 27.7 | 35.68 | 10.85 | 2.34 | 1.6 | - | - | 0.4 | 0.5 | 0.5 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 25.0 | 35.73 | 10.76 | 2.38 | 2.0 | - | - | 0.3 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 22.9 | 36.13 | 10.94 | 2.42 | 3.5 | - | - | 0.5 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| 10/11 | 1146 | 1 | P | 0.0 | 28.0 | 35.75 | 10.84 | 2.46 | 1.0 | - | - | 0.6 | 0.1 | 0.1 | 5.3 | - | - | 51 | B. | 2 | 8 | 7 | 3 | NE | 1 | NE | |
| - | - | 2 | 0 | - | 27.8 | 35.81 | 10.80 | 2.43 | 1.0 | - | - | 0.6 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 27.7 | 35.68 | 10.85 | 2.34 | 1.6 | - | - | 0.4 | 0.5 | 0.5 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 22.8 | 36.09 | 10.88 | 2.47 | 3.7 | - | - | 0.6 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | | |
| 11/14 | 1227 | 1 | 0 | - | 24.9 | 35.99 | 10.70 | 2.44 | 2.0 | - | - | 0.4 | 0.1 | 0.1 | 4.7 | - | - | 49.7 | B. | 2 | 1,4,6,8 | 7 | 5 | NE | 2 | NE | |
| - | - | 2 | 0 | - | 24.8 | 35.99 | 10.74 | 2.44 | 2.0 | - | - | 0.5 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | 23.2 | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 24.8 | 36.06 | 10.80 | 2.45 | 1.5 | - | - | 0.4 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | 8.4 | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 24.7 | 36.06 | 10.77 | 2.45 | 1.3 | - | - | 0.5 | 0.4 | 0.4 | 0.4 | 0.0 | - | - | 4.1 | - | - | - | - | - | - | | |
| 12/8 | 1224 | 1 | 0 | - | 21.9 | 36.55 | 11.04 | 2.45 | 3.3 | - | - | 0.5 | 0.1 | 0.1 | 0.0 | - | - | 53.8 | B. | 5 | 1,4 | 7 | 2 | ENE | 1 | NE | |
| - | - | 2 | 0 | - | 21.8 | 36.09 | 11.04 | 2.46 | 2.8 | - | - | 0.6 | 1.0 | 0.6 | 1.0 | 0.0 | - | - | 24.5 | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 21.8 | 36.27 | 11.05 | 2.46 | 2.7 | - | - | 0.6 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | 7.1 | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 21.8 | 36.17 | 11.05 | 2.46 | 2.3 | - | - | 0.5 | 0.1 | 0.1 | 0.1 | 0.0 | - | - | 1.9 | - | - | - | - | - | - | | |

| STATION 27 (Continued) | | Depth of 124 feet | | Lat. 27°35.6' N. | | Long. 83°30.5' W. | | Phosphorus | | Nitrogen | | Water | | Wind | | | | | | | | | | | | | |
|------------------------|------|-------------------|-------------|------------------|----------------|-------------------|-------|-----------------|-----------------|--------------------|-----|---------------|--------|-------|------|------|------|-----|-----|-------|-------|-----|----|-----|-----|----|-----|
| Date | Time | Depth | Chlorophyll | | C ₃ | Alk | Si | PO ₄ | NO ₃ | NO ₂ -N | In | Light transp. | Transp | Color | CA | CT | Vt | Amt | Dir | Dir | | | | | | | |
| | | | C | M | | | | | | | | | | | | | | | | | | | | | | | |
| 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/12 | 1226 | 1 | 0 | - | 17.9 | 36.42 | 11.05 | 2.45 | 2.4 | - | 0.4 | 0.1 | - | 10.0 | 0.3 | 39.6 | - | D. | 7 | 6,4,0 | 4 | 4 | NE | 2 | NNE | | |
| - | - | 2 | 0 | - | 14.9 | 36.18 | 10.90 | 2.44 | 2.1 | - | 0.5 | 0.1 | - | - | - | 16.7 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 17.0 | 36.45 | 11.10 | 2.44 | 0.5 | - | 0.5 | 0.1 | - | - | - | 7.5 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 17.0 | 36.11 | 10.64 | 2.44 | 2.5 | - | 0.6 | 0.1 | - | - | - | 2.9 | - | - | - | - | - | - | - | - | - | | |
| 2/28 | 1235 | 1 | P | 0.0 | 17.5 | 35.64 | 10.96 | 2.42 | 2.6 | - | 0.1 | 0.1 | - | 8.1 | 1.0 | 35.7 | 47 | - | - | 1 | 0,1,2 | 7 | 2 | SSE | 2 | SW | |
| - | - | 2 | 0 | - | 16.2 | 35.08 | 11.04 | 2.44 | 1.3 | - | 0.4 | 0.1 | - | - | - | 22.3 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 16.2 | 35.66 | 10.90 | 2.42 | 2.4 | - | 0.3 | 0.2 | - | - | - | 4.5 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 15.2 | 35.66 | 11.00 | 2.46 | 1.7 | - | 0.4 | 0.2 | - | - | - | 0.4 | - | - | - | - | - | - | - | - | - | | |
| 3/2 | 1206 | 1 | P | 0.0 | 17.5 | 35.91 | 10.90 | 2.44 | 1.8 | - | 0.4 | 0.0 | - | 1.2 | 13.7 | 1.1 | - | - | - | - | 9 | 6,8 | 6 | 4 | NNW | 1 | NNW |
| - | - | 2 | P | 0.0 | 17.2 | 35.84 | 10.80 | 2.44 | 1.5 | - | 0.3 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 3 | P | 0.0 | 16.5 | 35.84 | 10.80 | 2.44 | 1.5 | - | 0.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 4 | P | 0.0 | 15.2 | 35.91 | 10.84 | 2.44 | 1.4 | - | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5/15 | 1214 | 1 | 0 | - | 24.5 | 36.29 | 11.10 | 2.44 | 1.5 | - | 0.3 | 0.1 | - | 8.4 | 2.6 | 59.2 | 42 | - | - | 1 | 1,8 | 8 | 1 | W | 1 | SW | |
| - | - | 2 | 0 | - | 23.7 | 36.33 | 10.90 | 2.45 | 1.3 | - | 0.2 | 0.0 | - | - | - | 27.8 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 22.3 | 36.29 | 10.91 | 2.45 | 3.2 | - | 0.3 | 0.2 | - | - | - | 16.2 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 22.2 | 36.29 | 11.03 | 2.45 | 2.4 | - | 0.3 | 0.2 | - | - | - | 6.0 | - | - | - | - | - | - | - | - | - | | |
| 6/5 | 1213 | 1 | 0 | - | 26.7 | 36.11 | 11.10 | 2.45 | 1.6 | - | 0.6 | - | - | 26.6 | 0.0 | 57.7 | 40 | - | - | 1 | 2,8 | 7 | 2 | E | 1 | E | |
| - | - | 2 | 0 | - | 26.1 | 36.00 | 10.85 | 2.44 | 1.6 | - | 0.4 | 0.7 | - | - | - | 25.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 24.1 | 36.18 | 10.98 | 2.44 | 2.8 | - | 0.6 | 3.0 | - | - | - | 13.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 23.9 | 36.27 | 10.95 | 2.49 | 3.7 | - | 0.7 | 0.3 | - | - | - | 4.3 | - | - | - | - | - | - | - | - | - | | |
| 7/10 | 1207 | 1 | 0 | - | 28.4 | 35.79 | 11.00 | 2.44 | 1.3 | - | 0.6 | - | - | 0.6 | 13.7 | 1.3 | 41.7 | 56 | - | - | 5 | 1,8 | 7 | 4 | S | 2 | SSW |
| - | - | 2 | 0 | - | 28.2 | 36.17 | 11.00 | 2.45 | 2.0 | - | 0.4 | 0.4 | - | - | - | 29.7 | - | - | - | - | - | - | - | - | - | | |
| - | - | 3 | 0 | - | 24.9 | 36.31 | 11.02 | 2.44 | 2.6 | - | 0.4 | 0.4 | - | - | - | 5.0 | - | - | - | - | - | - | - | - | - | | |
| - | - | 4 | 0 | - | 23.4 | 36.24 | 11.07 | 2.46 | 5.0 | - | 0.6 | 1.0 | - | - | - | 1.3 | - | - | - | - | - | - | - | - | - | | |

| STATION 27B | | Depth of 167 feet | | | | | | | | | | Lat. 27° 35.8' N. Long. 83° 50.5' W. | | | | | | | | | | | | | | |
|-------------|------|-------------------|------------|---|------|-------|-------|-------|------|-----|-----|--------------------------------------|-----|-----------------|-----------------|----|--------------|-------|--------|-------|-------|------|-----|-----|-----|-----|
| Date | Time | Depth | Gyrodinium | | C | M | °C | Sal | Ca | Alk | Si | Phosphorus | | Nitrogen | | In | Light transp | Water | | Sky | | Wind | | Sea | | |
| | | | Breve | C | | | | | | | | PO ₄ | Tot | NO ₃ | NH ₃ | | | Org | Transp | Color | CA | CT | VI | Amt | Dir | Amt |
| 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7/6 | 1226 | 1 | 0 | - | 29.8 | 35.93 | 11.03 | 2.43 | 0.9 | - | 0.4 | 0.1 | 0.6 | - | - | - | - | 58 | B. | 6 | 8 | 2 | SW | 2 | W | |
| - | - | 2 | 0 | - | 27.5 | 36.29 | 11.05 | 2.44 | 0.9 | - | 0.8 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 25.4 | 36.35 | 11.13 | 2.42 | 1.0 | - | 0.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 20.3 | 36.06 | 10.84 | 2.42 | 2.2 | - | 0.9 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8/23 | 1222 | 1 | 0 | - | 29.6 | 35.43 | 10.80 | 2.42 | 0.8 | - | 0.4 | 0.2 | 3.5 | - | - | - | - | 52 | B. | 6 | 3,4,8 | 7 | WSW | 2 | NW | |
| - | - | 2 | 0 | - | 29.2 | 35.43 | 10.73 | 2.42 | 0.8 | - | 0.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 23.9 | 35.97 | 10.95 | 2.43 | 1.0 | - | 0.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | 19.3 | 35.43 | 10.70 | 2.43 | 0.9 | - | 0.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9/27 | 1338 | 1 | 0 | - | 30.0 | 35.77 | 10.90 | 2.40 | 1.0 | - | 0.4 | 0.5 | 1.8 | - | - | - | - | 65 | B. | 2 | 1,8 | 7 | 0 | - | 0 | |
| - | - | 2 | 0 | - | 27.8 | 35.71 | 10.84 | 2.39 | 0.8 | - | 0.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 25.6 | 36.08 | 10.85 | 2.41 | 2.1 | - | 0.5 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | - | - | 35.68 | 10.75 | 2.40 | 0.9 | - | 0.4 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10/11 | 1320 | 1 | 0 | - | 27.5 | 35.81 | 10.70 | 2.46 | 0.8 | - | 0.3 | 0.0 | 2.4 | - | - | - | - | 73 | B. | 2 | 8 | 7 | 3 | NE | 1 | NE |
| - | - | 2 | 0 | - | 27.2 | 35.77 | 10.75 | 2.46 | 0.8 | - | 0.6 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 3 | 0 | - | 27.1 | 35.77 | 10.71 | 2.46 | 0.8 | - | 0.6 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 4 | 0 | - | - | - | 36.24 | 10.95 | 2.47 | 3.8 | - | 0.8 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |

MS #1267



Created in 1849, the Department of the Interior—America's Department of Natural Resources—is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States—now and in the future.

