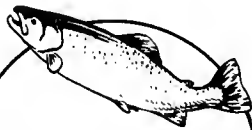


**GULF OF MEXICO
PHYSICAL AND CHEMICAL DATA
FROM ALASKA CRUISES**



SPECIAL SCIENTIFIC REPORT—FISHERIES No. 249

**UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE**

EXPLANATORY NOTE

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

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

GULF OF MEXICO PHYSICAL AND CHEMICAL DATA
FROM ALASKA CRUISES

Compiled by

Albert Collier
Fishery Research Biologist
U. S. Fish and Wildlife Service

With a note on
SOME ASPECTS OF THE PHYSICAL OCEANOGRAPHY OF
THE GULF OF MEXICO

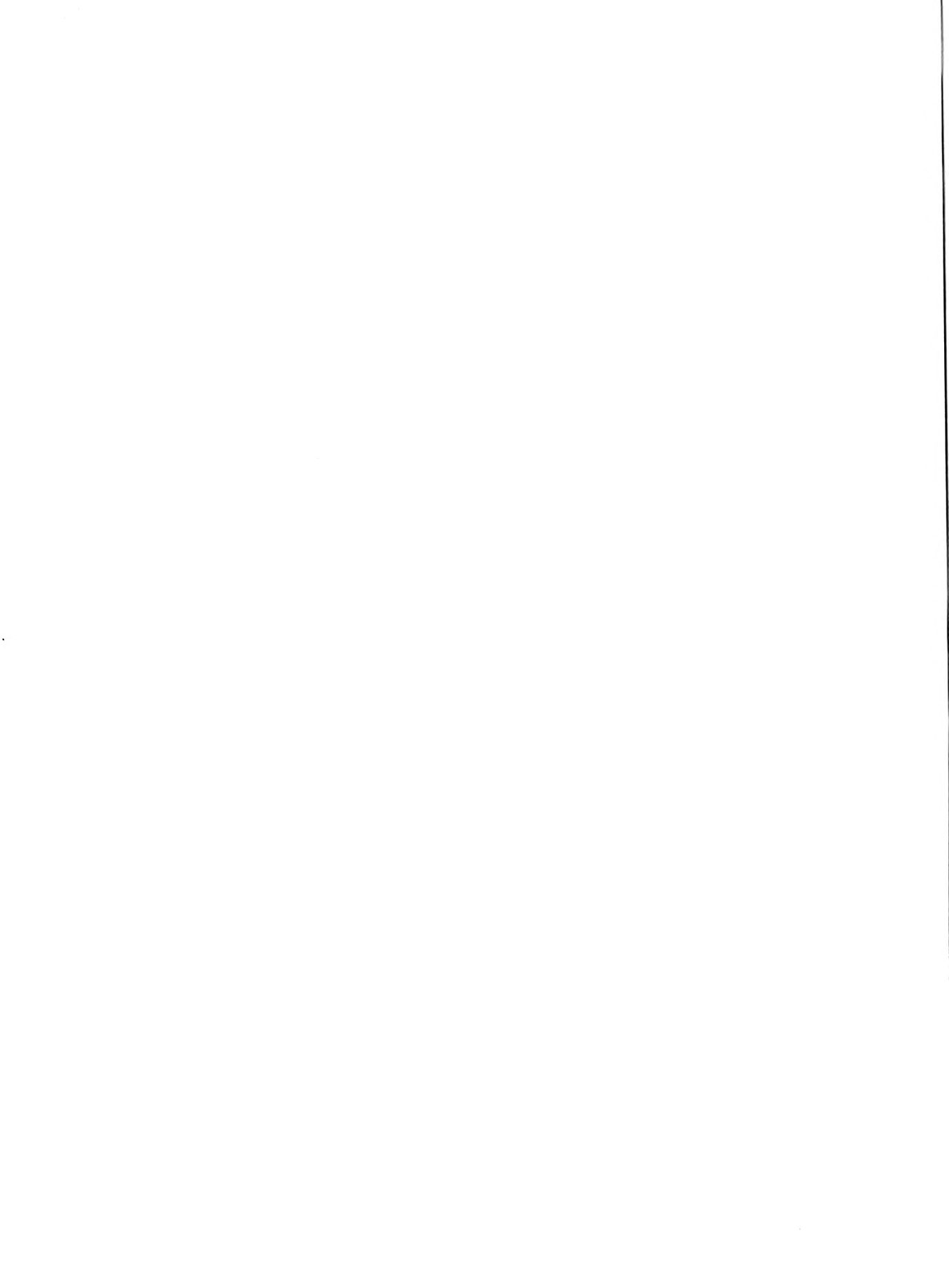
By

Kenneth H. Drummond
and
George B. Austin, Jr.
Department of Oceanography
The A. & M. College of Texas

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CONTENTS

	Page
Introduction	1
Methods	1
Uranium and phosphorus concentrations in certain samples of water and sediments from the Gulf of Mexico	2
Remarks on analysis of organic compounds	2
Literature cited	3
Some Aspects of the Physical Oceanography of the Gulf of Mexico (Based on data collected on the cruises by the ALASKA)	5
Literature cited	7
Notes concerning the tables	14
Notes on cruises 1 - 3	17
Notes on cruise 1	17
Data report	
Cruise 1	18
Cruise 2	70
Cruise 3	140
Cruise 4	177
Cruise 5	257
Cruise 8	333
Cruise 10	380

FIGURES

<u>Nos.</u>	<u>Page</u>
Photograph of M/V ALASKA	Frontispiece
1. Temperature-depth sections, Gulf of Mexico	6
2. Frequency distribution of temperatures and salinities at various depths	7
3. Sea surface isohalines, Cruise 1-1A	8
4. Sea surface isohalines, Cruise 2-1B	8
5. Sea surface isohalines, Cruise 3-1C	9
6. Sea surface isohalines, Cruise 4-2A	9
7. Sea surface isohalines, Cruise 5-2C	10
8. Sea surface isohalines, Cruise 10-2B	10
9. Sea surface isohalines, Cruise 10-2B	11
10. Contours of the motionless surfaces in the Gulf of Mexico using Defant's method	11
11. Surface currents in Gulf of Mexico	12
12. Currents at 500 meters depth in the Gulf of Mexico . . .	12
13. Surface currents in the Gulf of Mexico (Cruise 4-2A) . .	13
14. Surface currents in the Gulf of Mexico (Cruise 5-2C) . .	13
15. Locations of stations occupied on Cruise 1-1A	18
16. Locations of stations occupied on Cruise 2-1B	69
17. Locations of stations occupied on Cruise 3-1C	139
18. Locations of stations occupied on Cruise 4-2A	176
19. Locations of stations occupied on Cruise 5-2C.	256
20. Locations of stations occupied on Cruise 8-3C	332
21. Locations of stations occupied on Cruise 10-2B	379

A B S T R A C T

This report is principally a list of chemical data collected aboard the U. S. Fish and Wildlife Service M/V ALASKA while she was engaged in a biological and oceanographic survey of the Gulf of Mexico. The tables include observations on salinity, temperature, sigma-t, nitrate-nitrite nitrogen, total phosphorus, inorganic phosphorus, "carbohydrates", and "proteins". Some special data on the uranium and phosphorus content of certain water samples and sediments are included. A brief introduction includes remarks on the physical oceanography of the Gulf of Mexico and the study of organic compounds.



GULF OF MEXICO PHYSICAL AND CHEMICAL DATA
FROM ALASKA CRUISES

INTRODUCTION

Before 1950 the only systematic surveys of the chemical features of the entire Gulf of Mexico were the cruises of MABEL TAYLOR in 1932 (Parr, 1935) and ATLANTIS in 1935 (Bulletin Hydrographique, 1936). Partly as a result of military interest in the oceans and partly because of an increased demand for sea foods, the oceanic environment began to attract renewed and more intensive attention following World War II. Because of the added stimulus of a great increase in the value of the annual shrimp and menhaden production in the Gulf of Mexico, Congress authorized the U. S. Fish and Wildlife Service to expand its investigations of the fisheries and oceanography of Gulf waters. This effort encompassed physical oceanography, marine biology and chemistry, and exploratory-fishing operations.

The biological section of the program was assigned to the Gulf Fishery Investigations with headquarters at Galveston, Texas. The physical oceanography was assigned to the Texas Agricultural and Mechanical College Department of Oceanography through U. S. Navy Office of Naval Research and the Bureau of Ships.

The cruises were planned with the Texas A. and M. group, and were designed to conform to the needs of the oceanographic problems. One of the major oceanographic problems concerned the water transport system in the Yucatan Channel, southeastern Gulf, and Florida Strait area. The majority of the cruises were directed to that region. All plans for biological observations were adapted to the requirements of the hydrographic program.

The observations fell into these categories: Salinity and temperature data for dynamic computations, meteorological observations, chemical determinations (other than salinity) for biological interpretation, and plankton collections.

The data pertaining to dynamic computations, and some inorganic phosphorus values, have been published in a preliminary form by the Texas A. and M. Department of

Oceanography (1954, 1955). The plankton data will be presented in separate reports.

This report will present all chemical, physical, and meteorological data. The climatological, salinity, and temperature data have been taken from the A. and M. reports and are included here for the convenience which comes from having all data listed in the same place. The following explanations apply to all cruises, but when special conditions apply to a given cruise they will be found at the head of the tables for that cruise.

METHODS

1. Collection of chemical samples on shipboard.

Salinity. Samples were drawn from standard Nansen bottles into 4-ounce prescription bottles with bakelite screw caps. Each sample bottle was wrapped tightly with plastic electrician's tape at the juncture of cap and bottle.

Total phosphorus. Handled as above except that thorium carbonate was added according to Harvey (1948).

Nitrate-nitrite nitrogen; inorganic phosphorus, carbohydrate, protein (tyrosine, tyrosine-tryptophan) samples were preserved in the frozen state according to the method given by Collier and Marvin (1953).

2. Analytical methods.^{1/}

^{1/} Most salinity determinations and all phosphate-P, nitrate-nitrite-N, carbohydrate, tyrosine, and tyrosine-tryptophan determinations were made in the Galveston laboratory under the direction of Messrs. K. T. Marvin and P. J. Wangersky. Mr. Marvin supervised the interpolation of all values for standard depths except salinity, temperature, and density, which were done by the Texas A. and M. Department of Oceanography.

Salinity. As described by Knudsen (1901). Electrometric end points were used after August 1951.

Inorganic phosphorus. By the method of Robinson and Thompson (1948), except that a Fisher electrophotometer was used to measure color intensity.

Total phosphorus. By the method of Harvey (1948), except that the Fisher AC electrophotometer was used to measure color intensity.

Nitrate-nitrite nitrogen. By the method of Marvin (1955).

Protein (tyrosine and tyrosine-tryptophan index). The values are given in milligrams per liter of tyrosine-tryptophan for the first three cruises, and for tyrosine thereafter. The determinations for the first three cruises were according to the method of Erdman and Little (1950) and for the remainder by an adaptation of the method of Sizer and Peacock (1947). There are no data for interconversion of the results. Wangersky developed the latter method and his description follows:

"The sea water samples were treated with an equal volume of 0.25 normal NaOH, then autoclaved for five hours at a pressure of forty pounds. The samples were transferred after cooling to centrifuge tubes, a small amount of celite was added to each tube, and the samples then spun for ten minutes at 900 - 1000 revolutions per minute. The supernatant liquid was then drawn off into a quartz or silica spectrophotometer cell, and read at 2400 A. on the Beckman model D. C. spectrophotometer.

"Since a few of the sample bottles may lose fluid by expansion during the autoclaving, the samples were run in triplicate. The slope of the Beer's law curve for this analysis varies with the temperature, pressure, and time of heating, making it advisable to run a full set of standards with each batch of samples. The celite was added in order to settle the slight haze of colloidal magnesium hydroxide, which would have otherwise given a false high reading. If the celite was added before the autoclaving, the high temperature caused it to decompose, giving a reading

even higher than the magnesium hydroxide alone.

"The standards and blanks were made equivalent to normal sea water in NaCl and Mg ++."

Carbohydrates. By the method of Erdman and Little (1950). See also Collier et al. (1953), and Zein-Eldin and May (in press).

URANIUM AND PHOSPHORUS CONCENTRATIONS IN CERTAIN SAMPLES OF WATER AND SEDIMENTS FROM THE GULF OF MEXICO

At the time these cruises were in progress the U. S. Geological Survey was interested in the uranium and phosphorus concentrations in the water and bottom sediments. The samples were collected aboard the ALASKA and forwarded to the Trace Element Section of the Geological Survey for analysis. We are indebted to the Geological Survey through Dr. Frank Grimaldi and his associates for making these data available for inclusion here. The data are presented in the following tables. Phosphorus was determined by a method essentially that of Quinlan and DeSesa (1955). Uranium was determined by fluorometric analysis (Grimaldi, May, and Fletcher, 1952).

REMARKS ON ANALYSES OF ORGANIC COMPOUNDS

Since this is the first oceanographic investigation to incorporate a systematic survey of specific classes of organic compounds, it is appropriate to give some of the reasons for doing so.

It is known that biologically active organic compounds exist in solution or suspension in variable concentrations in natural sea waters (Collier, Ray, Magnitsky, and Bell, 1953). The possible significance of these compounds was reviewed by Collier (1953). The generally low concentrations of carbohydrate-like materials in the Gulf of Mexico was suspected and recognized in our early work (Collier et al., 1953). However, when the present series of oceanographic studies was being planned it was considered desirable to study this matter in more detail.

Table 1.--Phosphorus and uranium content of some bottom samples collected on Alaska cruises 2 and 3.

Cruise 2			
Station	Depth (fathom)	Percent P ₂ O ₅	Percent U
1	10	0.11	0.0003
3	12	0.12	0.0003
5	12	0.09	0.0003
7	15	0.12	0.0005
9	14	0.11	0.0003
11	17	0.09	0.0003
13	12	0.08	0.0003
15	21	0.11	0.0004
17	32	0.11	0.0003
18	62	0.18	0.0003
21	1140	0.18	0.0003
23	1360	0.16	0.0003
27	580	0.20	0.0003
30	325	0.20	0.0003
31	25	0.12	0.0003
32	6	0.19	0.0003
34	44	0.09	0.0003
48	95	0.21	0.0005
50	10	0.16	0.0004
52	40	0.21	0.0005
54	29	0.14	0.0005
64	50	0.14	0.0003
66	13	0.09	0.0003

Cruise 3

Station	Depth (fathom)	Percent P ₂ O ₅	Percent U
2	21	0.09	0.0002
3	750	0.13	0.0003
5	1500	0.12	0.0002
6	1650	0.12	0.0003
7	1700	0.12	0.0002
8	1720	0.17	0.0002
10	102	0.10	0.0002
12	25	0.11	0.0002
13	11	0.03	0.0002
15	15	0.09	0.0002
16	110	0.12	0.0002
17	37	0.12	0.0002
21	118	0.09	0.0001
25	98	0.12	0.0002
26	70	0.12	0.0002

The results are included in the tables of this report.

The outstanding features in this

Table 2.--Uranium content of some water samples collected on Alaska cruises 1 and 3.

Cruise 1		
Station	Depth m.	Percent uranium
7	Surface	2.9 x 10 ⁻⁷
	200	2.6 x 10 ⁻⁷
	600	2.3 x 10 ⁻⁷
	1800	2.6 x 10 ⁻⁷
43	Surface	2.2 x 10 ⁻⁷
	165	2.3 x 10 ⁻⁷
	335	2.6 x 10 ⁻⁷
	500	2.0 x 10 ⁻⁷
	640	2.8 x 10 ⁻⁷

Cruise 3

Station	Depth m.	Percent uranium
8	Surface	2.7 x 10 ⁻⁷
	500	2.8 x 10 ⁻⁷
	1300	2.6 x 10 ⁻⁷
	2200	3.0 x 10 ⁻⁷
	2900	3.1 x 10 ⁻⁷
37	Surface	2.9 x 10 ⁻⁷
	5	2.7 x 10 ⁻⁷
	15	2.6 x 10 ⁻⁷

respect are two: the predominance of low values as compared to estuarial or marsh waters, and the high degree of variability. The variability alone gives these determinations their significance because they reflect the lack of uniformity in the distribution of the loci of biotic activity in the Gulf of Mexico. This is consistent with the recognized heterogeneous distribution of plankton elements. There is a tendency for the concentrations of the compounds found in closely spaced samples to conform to the concept of contagiously distributed populations of plankton as described by Barnes and Marshall (1951).

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SOME ASPECTS OF THE PHYSICAL OCEANOGRAPHY
OF THE GULF OF MEXICO

(Based on data collected on the
cruises of the ALASKA)

By

Kenneth H. Drummond
and

George B. Austin, Jr.

Temperature. A large number of sea surface temperature observations have been collected in the Gulf of Mexico. Probably the sea surface temperature values most referred to in this area are those of Fuglister (1947). These are mean isotherms and show variation from month to month. The main feature of the average winter pattern is a gradual decrease from approximately 75° F. (23.9° C.) in the south to 65° F. (18.3° C.) in the north for all parts of the Gulf. The gradient is larger in the eastern portion. In the summer the average temperatures approach uniformity at 84° F. (28.9° C.) throughout the region. However, measurements made during the cruises of the ALASKA indicate that considerable deviation from these average isotherms may occur at certain times. For example, in August the mean charts show a temperature of 84° F. (28.9° C.) throughout the Gulf whereas ALASKA data show variations from 85° F. (29.4° C.) to 89° F. (31.7° C.) for the northeastern portion of the Gulf.

Temperature-depth sections (surface to 1000 meters) for the first three cruises of the ALASKA are presented pictorially in figure 1. Station positions and cruise lines for each of the cruises are incorporated into the illustration to assist in orienting the temperature-depth sections. A scale of depths in 100-meter intervals and a key to the temperature ranges are given in the legend. Temperature-depth sections for the shallow continental shelf areas are omitted and the omission is indicated by the dashed cruise lines (i.e. western Gulf and northwestern Gulf).

Histograms showing frequency of the distribution of temperature and salinity at various depths greater than 800 meters for cruises 1-1A, 2-2B, and 3-1C are presented in figure 2.

Salinity. Until a systematic oceanographic survey of the Gulf was made by the

ALASKA even fewer data than those of temperature were available on surface salinities. Parr (1935) prepared a chart of the distribution of average salinities for the upper 50 meters. This chart shows a range of 36.00 ‰ to 36.25 ‰ for the Gulf region. More recent data on sea surface salinities obtained on the ALASKA cruises are presented in figures 3 through 8. Data from cruise 8-3C lacked continuity between station lines in both space and time and were therefore omitted.

Histograms showing the frequency of the distribution of salinity and temperature at various depths from 800 meters to 2,000 meters are presented in figure 2.

Depth of Motionless Layers. A study of the depth of the motionless layer in the Gulf of Mexico was made by Adams (1954) using the methods of Defant and Hidaka. Data used in this study were obtained on cruises 1-1A, 2-1B and 3-1C of the ALASKA. Excerpts from Mr. Adams' report are as follows:

"A comparison of the results of the methods is of interest. It will be noted that with Defant's method (see figure 10), two maxima are obtained, one in the western Gulf and one in the east central Gulf. These maxima also appear in Hidaka's method but both are of different magnitudes. The western Gulf maximum in figure 10 is found to the southeast using Hidaka's method with the latter being about 300 m. greater than the former. The east central maximum in figure 10 is again displaced to the southeast using Hidaka's method, but in this case the latter is about 600 m. smaller than the former. Both methods show a variation in depth of the motionless layer of from 200 to greater than 1,000 m. Moreover, the methods show good agreement in the area of Yucatan Channel and fair agreement in the Straits of Florida."

Currents. The cruises of the research vessel ALASKA provided the first complete coverage of the Gulf of Mexico with information needed to compute the deep water currents. It was on the basis of these current patterns that sufficient evidence was acquired to point out the existence of a large-scale, semi-permanent, anti-cyclonic eddy in the eastern Gulf.

The results of contouring the dynamic heights of cruises 1-1A, 2-1B, and 3-1C are illustrated in figures 11 and 12. They show a small intense eddy approximately 100 miles to the northeast of the Yucatan Channel. It may also be observed that the Yucatan current flows a considerable distance to the northwest (300 miles) before turning south and east and departing through the Florida Straits. A second, less intense, anti-cyclonic eddy is pictured approximately 100 miles off Pensacola, Florida. Each of the two eddies described above is a consequence of the combined analysis of two cruises taken several weeks apart and consisting of only a small number of stations. Therefore, the resulting composite analysis may lack

detail and continuity in time and space.

Cruise 4-2A (in the winter of 1952), graphically shows for the first time the existence of a large-scale, anti-cyclonic eddy centered at $86^{\circ} 36'$ West longitude and $26^{\circ} 00'$ North latitude. See figure 13 for the surface current pattern. The analysis here is likely to be more indicative of a synoptic current pattern inasmuch as the period of the cruise in the region of the eddy was about two weeks. It should also be noted that the eddy shown in figure 13 is somewhat obscured in figures 11 and 12 by the contouring of dynamic height data from two separate cruises (cruises 1-1A and 3-1C).

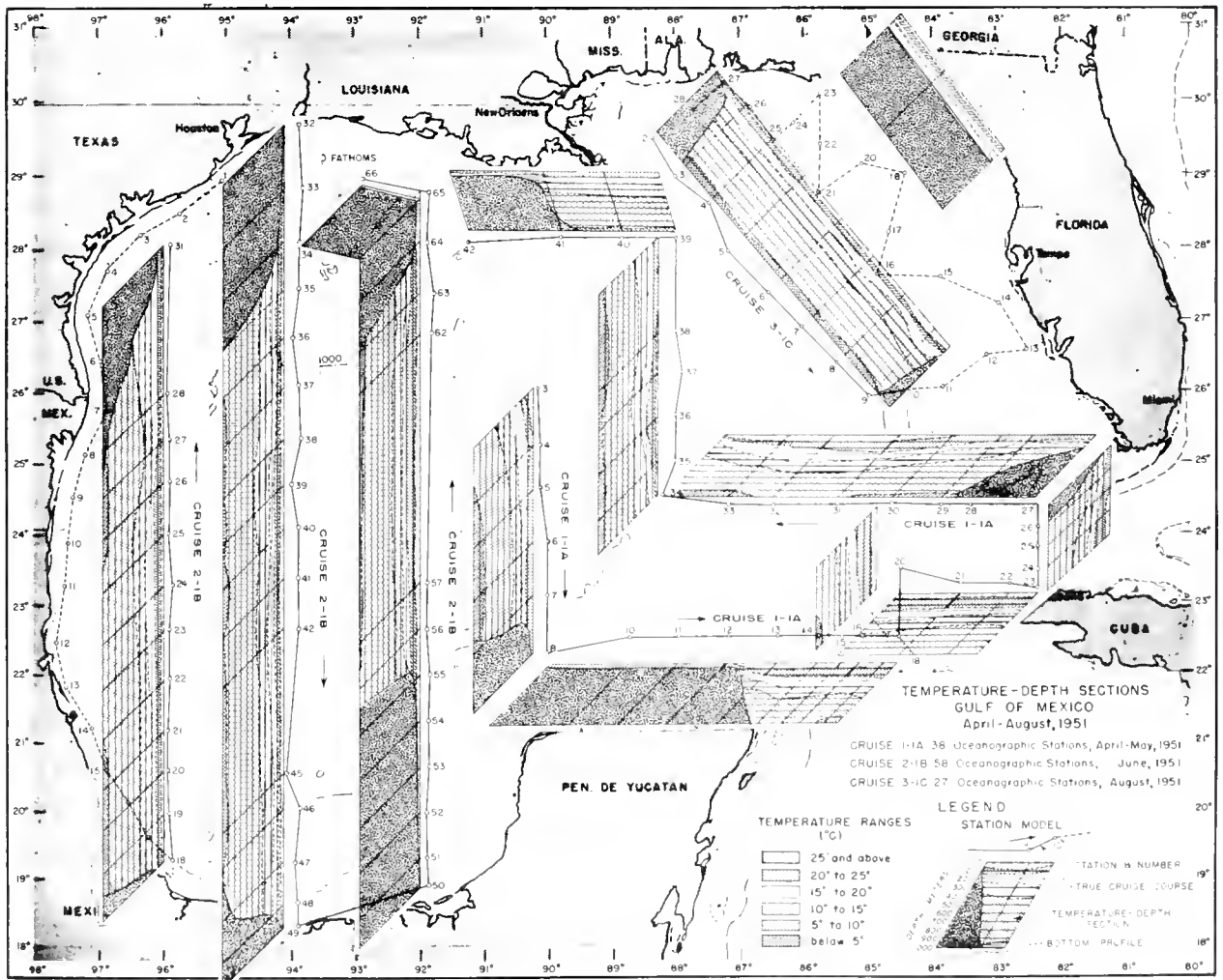


Figure 1.

Cruise 5-20 (in the summer of 1952) also displays, from analysis of dynamic height data, a large, anti-cyclonic eddy in the same region (figure 14).

On the basis of the comparison of the three sets of dynamic height data from the eastern Gulf of Mexico, cruise 54-10 of the A. A. JAKKULA was designed to investigate the region with emphasis on the movements of the eddy currents. Preliminary analysis of these data has also shown the same well-defined eddy but it is somewhat larger in size.

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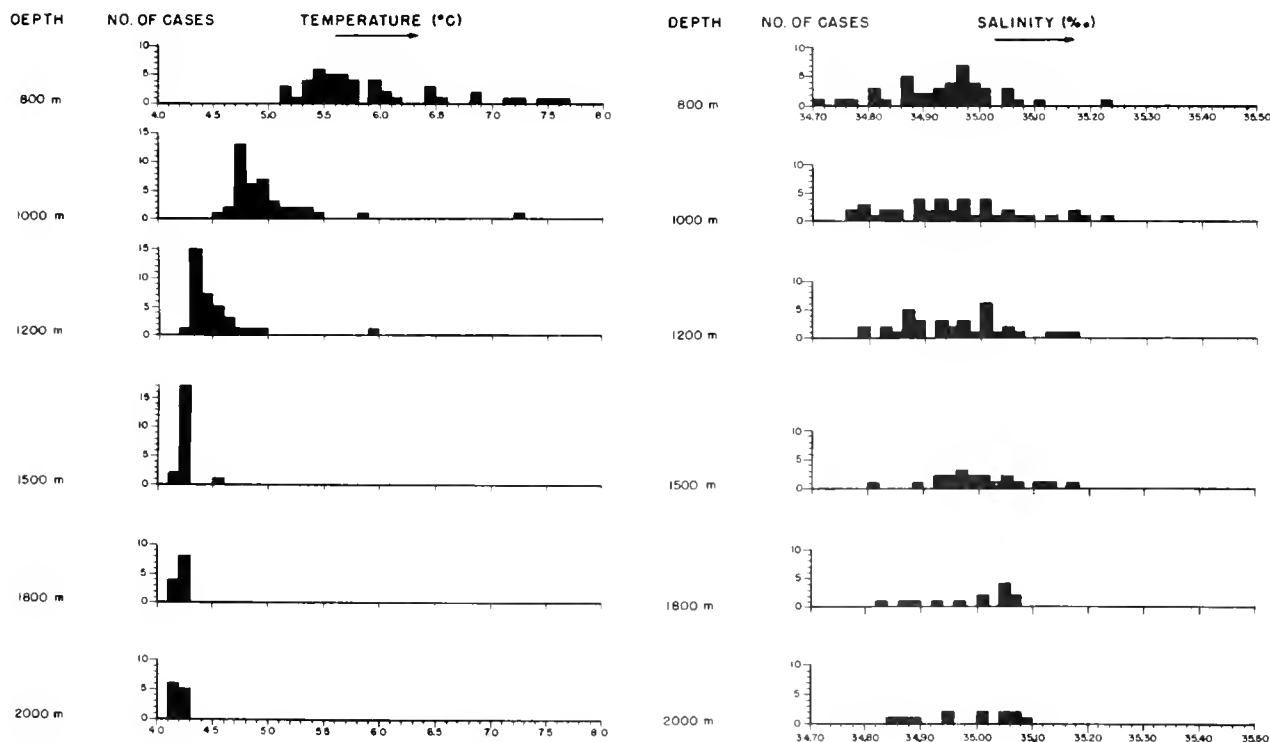


Figure 2.--Frequency distribution of temperatures and salinities at various depths.

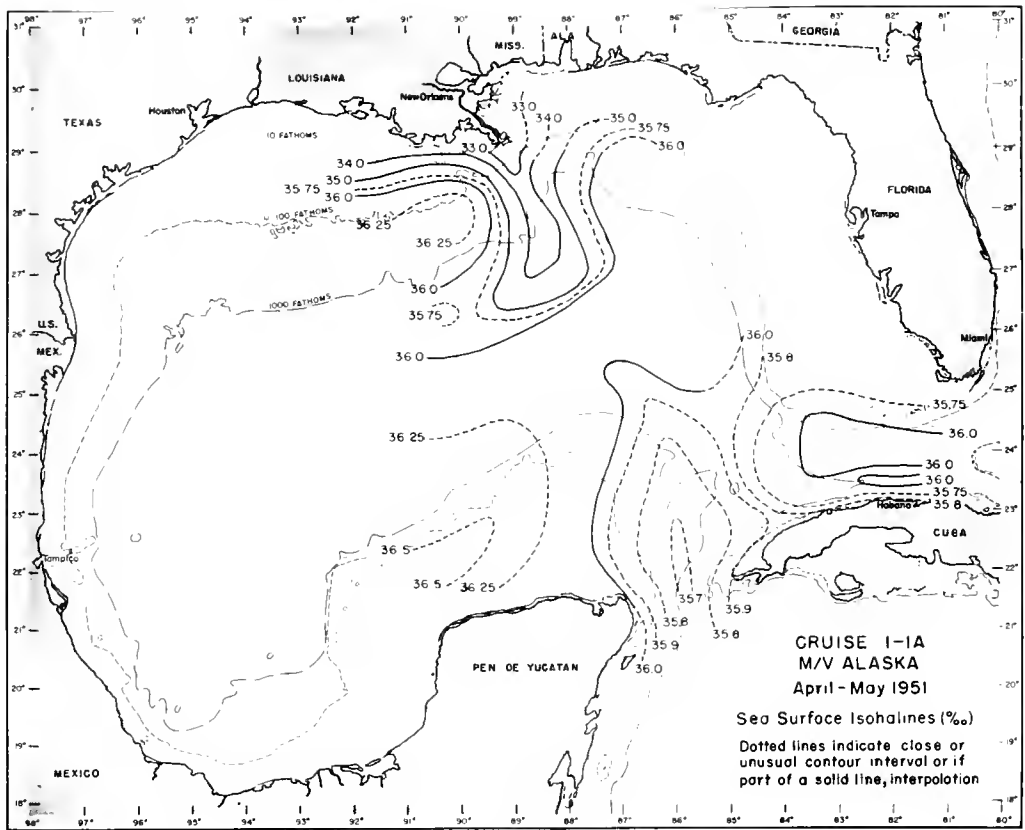


FIGURE 3

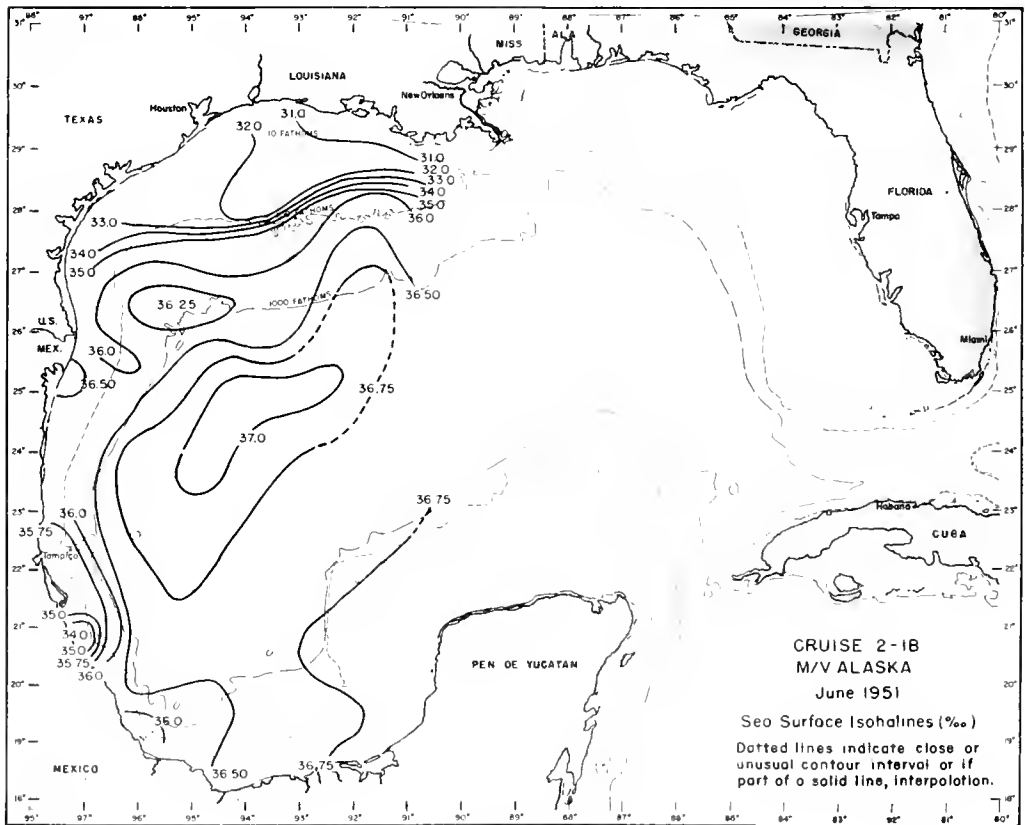


FIGURE 4

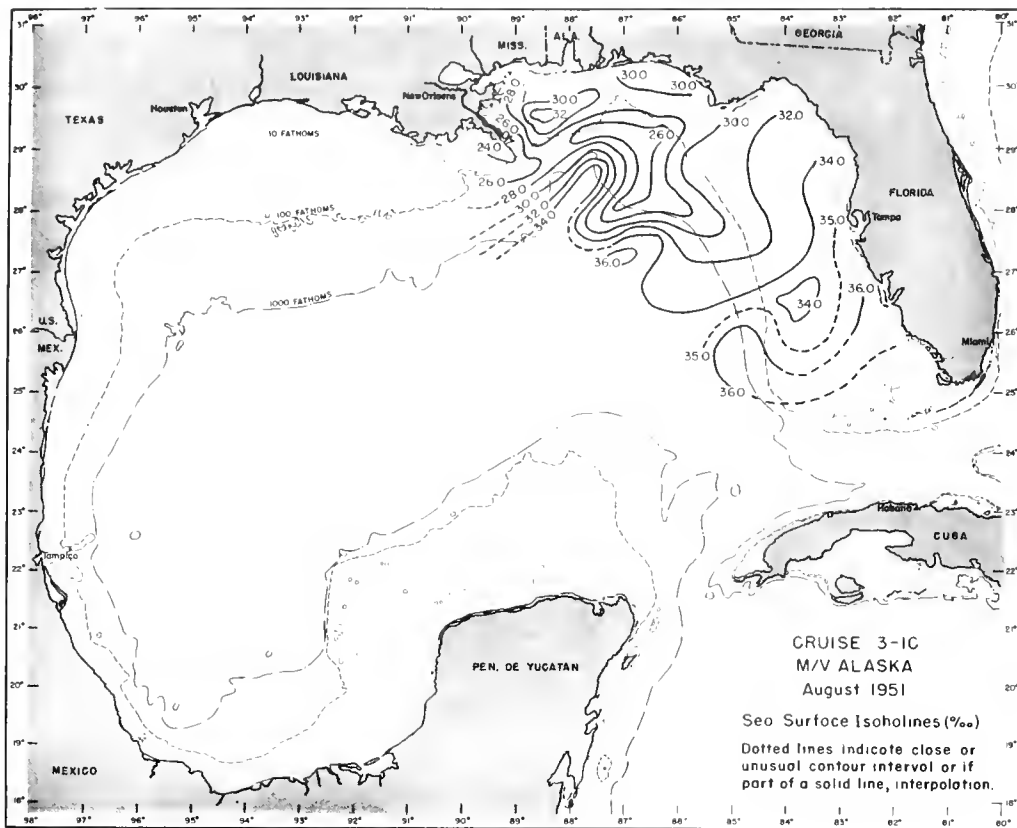


FIGURE 5

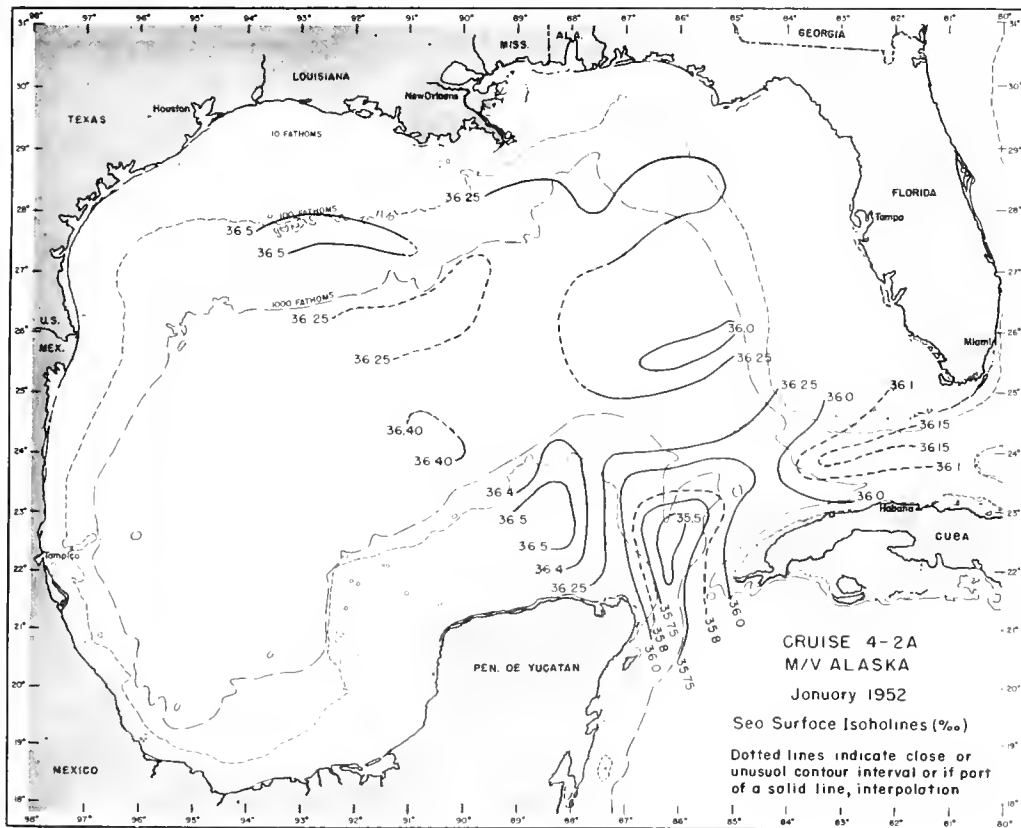


FIGURE 6

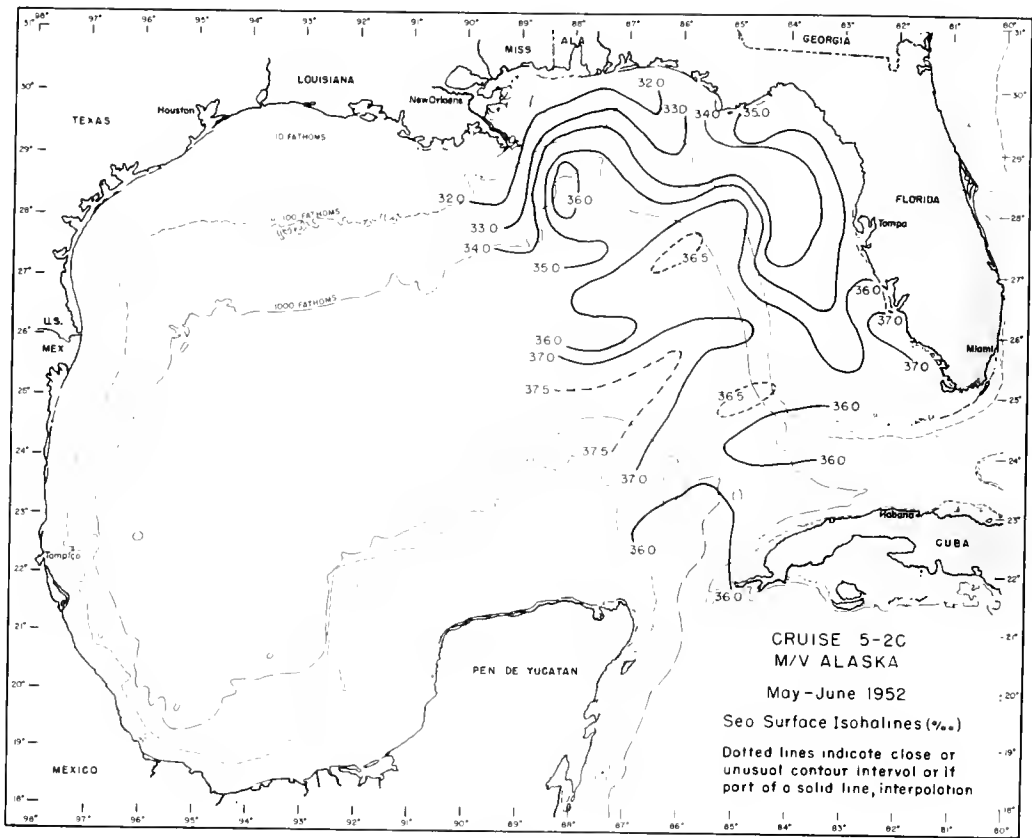


FIGURE 7

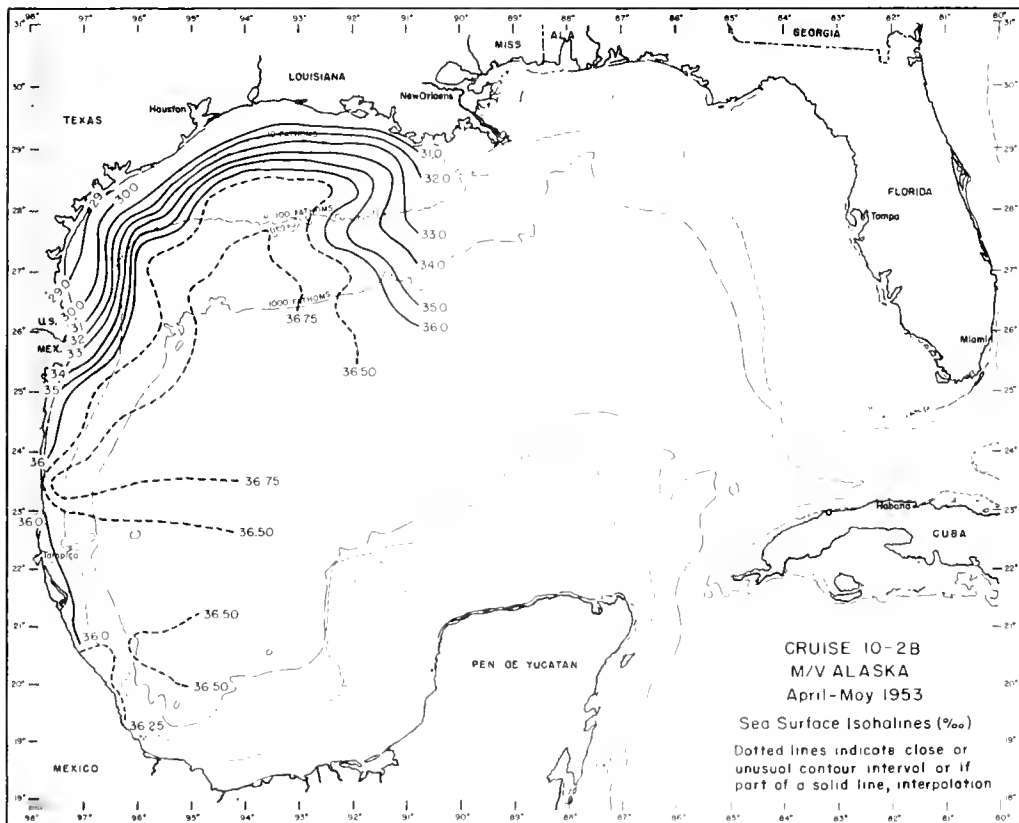


FIGURE 8

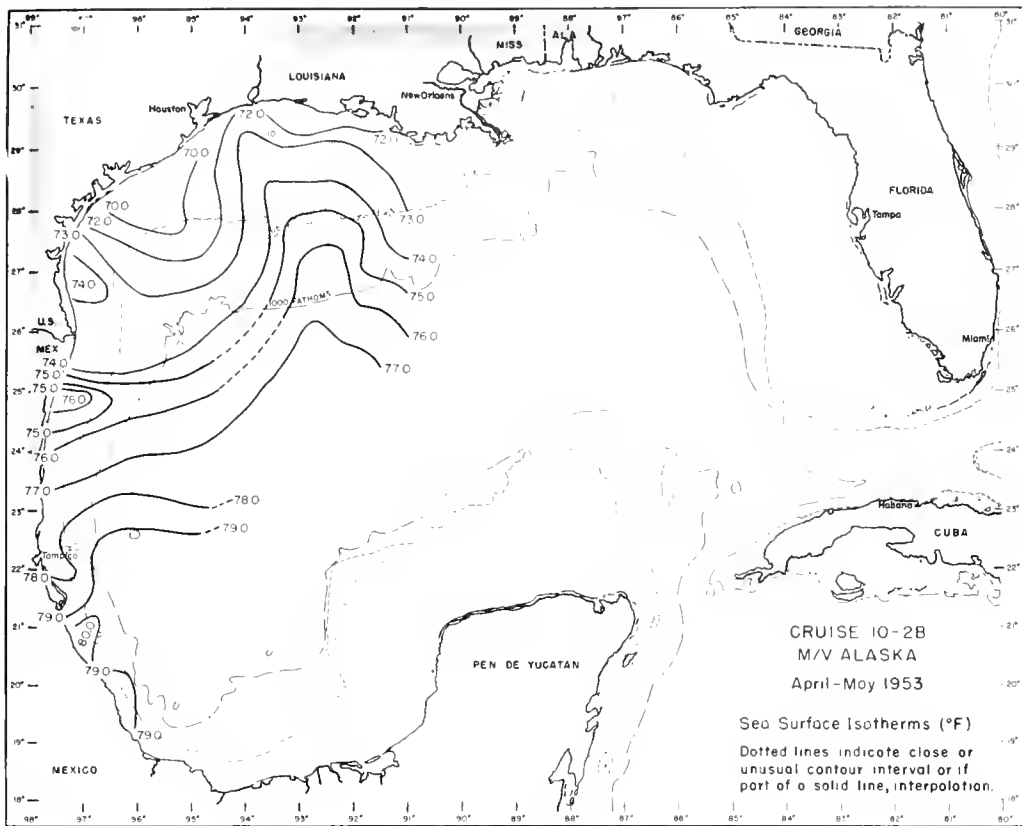


FIGURE 9

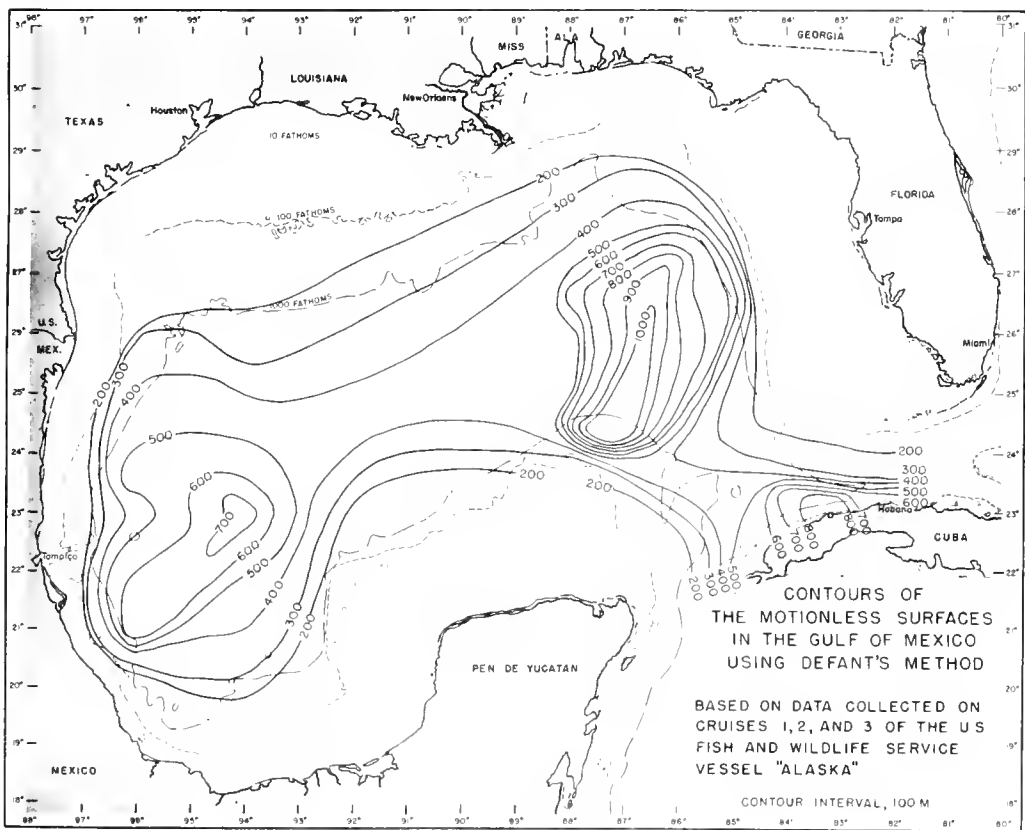


FIGURE 10

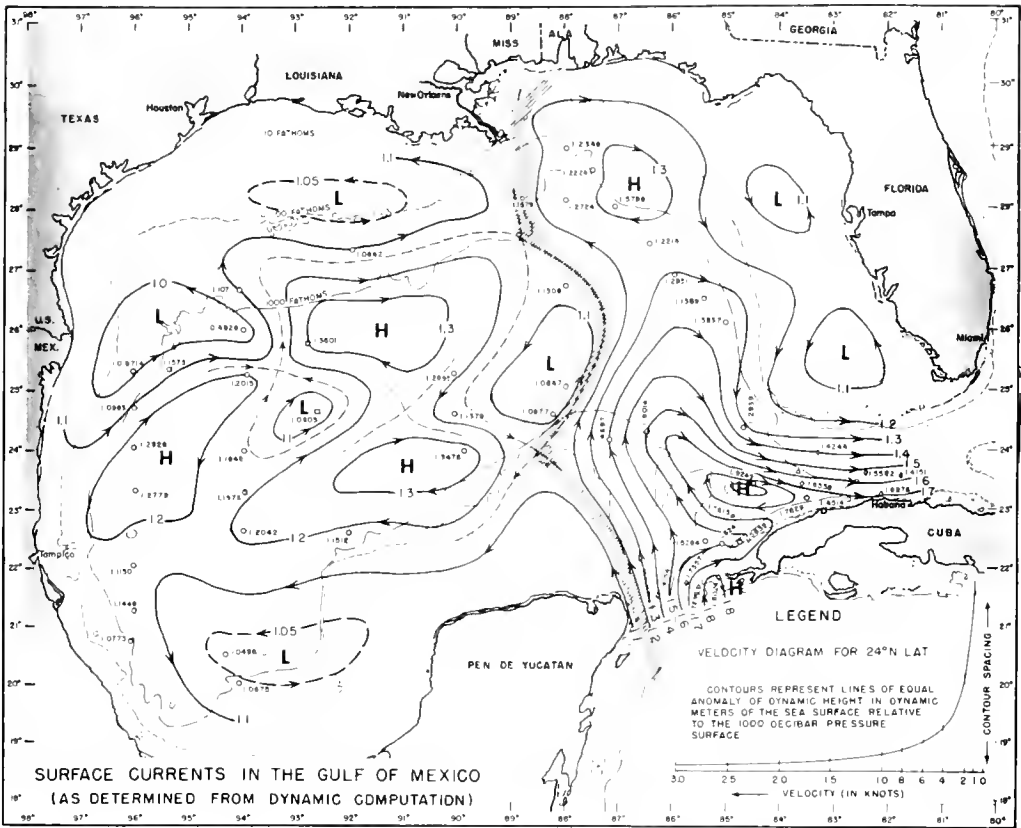


FIGURE 11

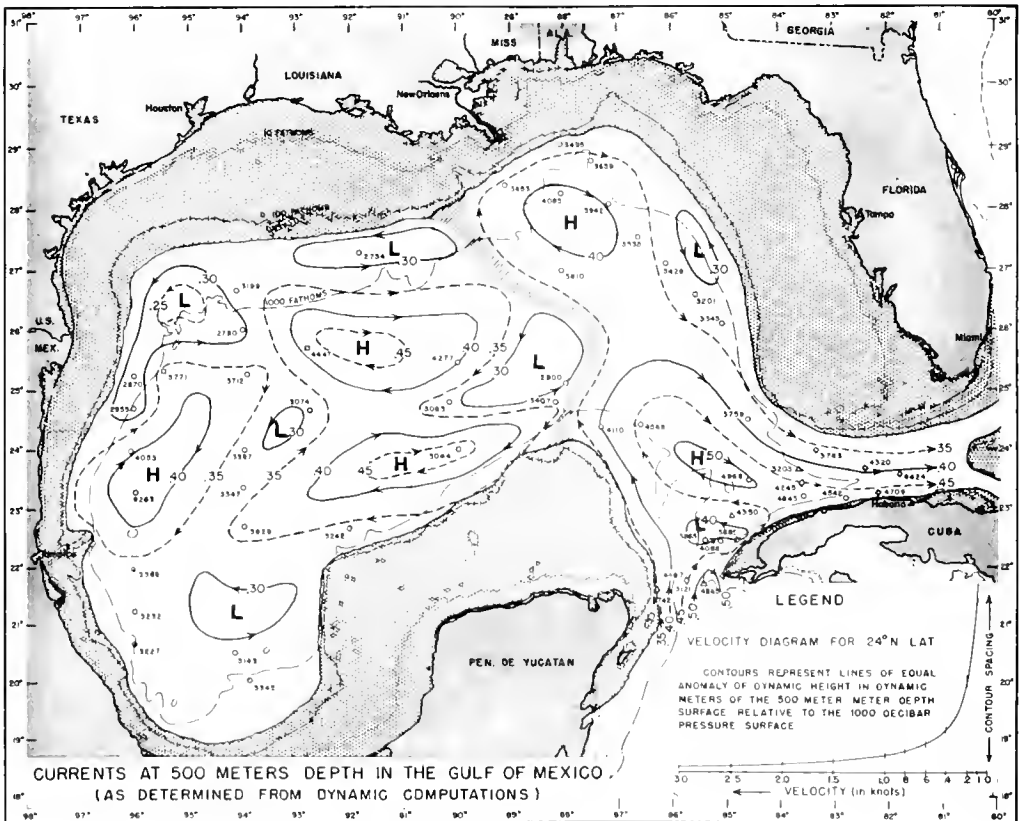


FIGURE 12

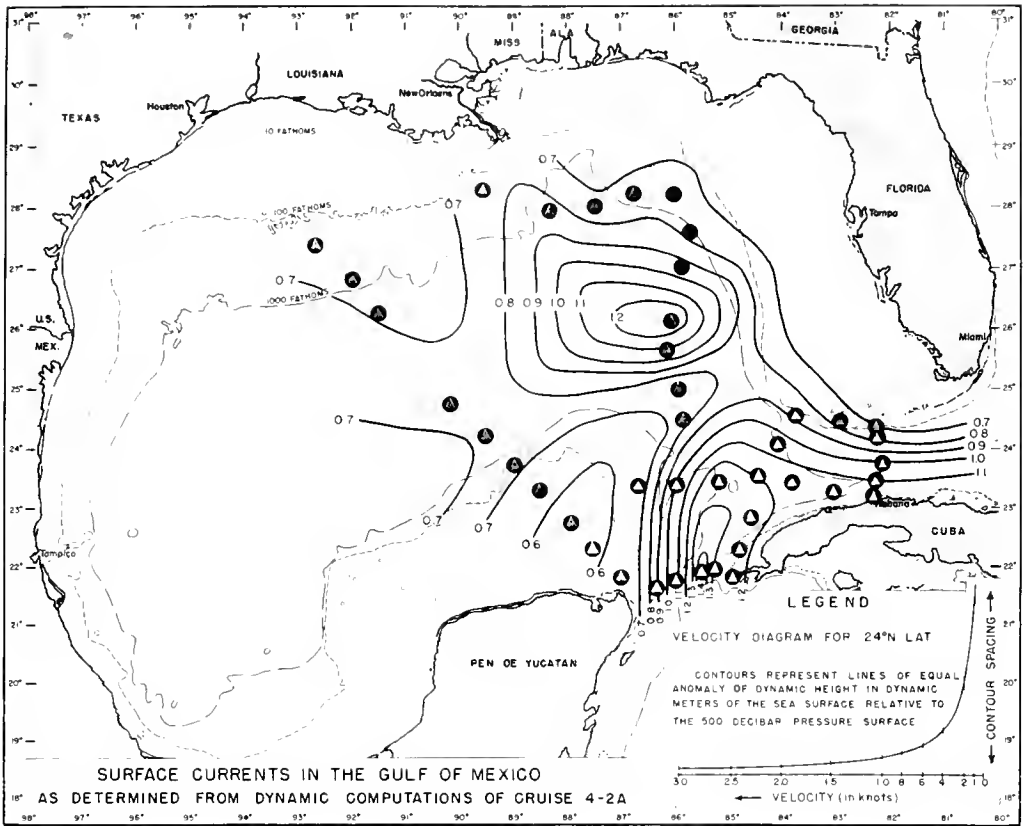


FIGURE 13

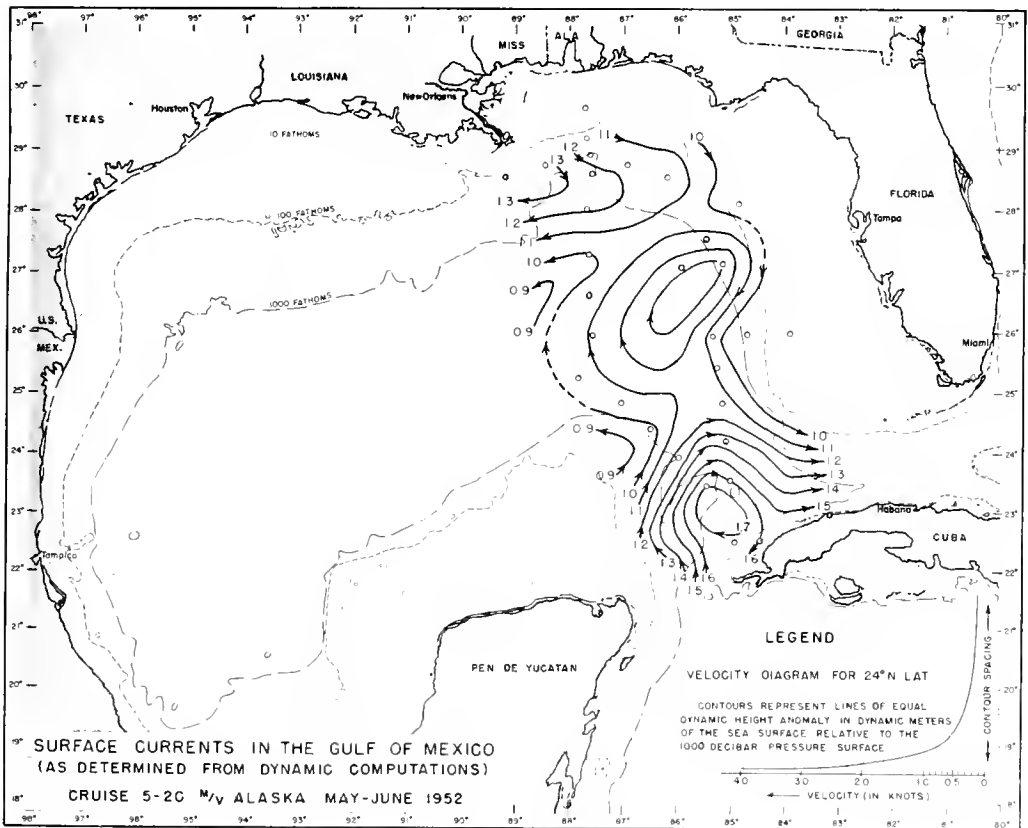


FIGURE 14

Notes Concerning the Tables.

Cruise and station numbers: In the following tables the station designation has three terms. The first term is a serial number applied to all cruises of ALASKA regardless of locale. The second term applies to the three basic cruise areas worked out for the specific hydrographic studies in cooperation with Texas A. and M. Department of Oceanography. These areas were designated A, B, and C. The numbers immediately preceding a given letter indicate serially the cruises in that particular area. The third term is the serial number of the station as occupied on any given cruise. Thus Station 4-2A-29 was the twentieth-ninth station occupied on the second cruise in area "A". The first term, 4, indicates that this was the fourth cruise of ALASKA while she was stationed at Galveston.

There were a number of special cruises not related to the basic plan for the study of the Gulf of Mexico which were assigned serial numbers in regular order. It is for this reason that cruises 6, 7, and 9 do not appear in these tables.

Depth: in meters (1 fathom = 1.8285 meters).

Temperature: degrees Centigrade.

Salinity: parts per thousand, converted from chloride content according to Knudsen's tables.

Sigma-t (σ_t): Derived from computed relationships between density (Mass per unit volume) and the specific volume of given samples of sea water in their places of origin (in situ), LaFond (1951). $\sigma_{s,t,p} = 1,000 (\rho_{s,t,p} - 1)$, where ρ = density, s = salinity ‰, t = temperature (°C.), and p = pressure (decibars). This definition refers to the density at the pressure at which the sample was collected. The same expression for pressure = 0 (surface) is $\sigma_{s,t,0} = 1,000 (\rho_{s,t,0} - 1)$. $\sigma_{s,t,0}$ is commonly shortened to σ_t and provides an index number for the density of a given sample at the sea surface and for a given salinity and temperature. Thus a density ($\rho_{s,t,0}$) of 1.02567 is converted by definition to a σ_t of 25.67 [$\sigma_t = 1,000(1.02567 - 1)$]. Sigma-t (σ_t) can be determined from salinity and

temperature by the use of graphs or tables (LaFond, 1951).

Total phosphorus (Total PO₄-P): microgram-atoms per liter of phosphate phosphorus. The final colorimetric determination is made as phosphate phosphorus after digestion.

Inorganic phosphorus (Inorg. PO₄-P): Inorganic phosphorus as phosphate phosphorus, undigested samples, in microgram-atoms per liter.

Nitrate-nitrite (NO₃-N): Nitrate-nitrite nitrogen in microgram-atoms of nitrogen per liter.

Carbohydrates (Carb. Mg./l): As arabinose equivalents in milligrams per liter. The general term carbohydrates should be used because there may be several pentoses or hexoses involved. Arabinose is used as a standard for comparison during the analytical process. Undoubtedly these carbohydrate materials are present in the form of monosaccharides, oligosaccharides, and polysaccharides.

Protein (Prot. Mg./l): Given in terms of tyrosine in milligrams per liter. The tyrosine may represent any number of known and unknown specific proteinaceous materials, and is used as a standard because of the adaptability of the analytical method to sea water.

Table 3.--Water color (Forel scale)

Code	Description
00	Deep blue
10	Blue
20	Green blue
30	Blue green
40	Green
50	Light green
60	Yellowish green
70	Yellow green
80	Green yellow
90	Greenish yellow
99	Yellow

TABLE 4. NUMERICAL WEATHER CODES—PRESENT WEATHER

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

Table 5.--Sea amount

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

Table 7.--Wind speed (Beaufort scale)

Code	Speed	Description
00	Less than 1 knot	Calm
01	1 - 3 knots	Light airs
02	4 - 6 knots	Light breeze
03	7 - 10 knots	Gentle breeze
04	11 - 16 knots	Moderate breeze
05	17 - 21 knots	Fresh breeze
06	22 - 27 knots	Strong breeze
07	28 - 33 knots	Moderate gale
08	34 - 40 knots	Fresh gale
09	41 - 47 knots	Strong gale
10	48 - 55 knots	Whole gale
11	56 - 63 knots	Storm
12	64 knots and above	Hurricane

Table 6.--Cloud symbols and code for degree of cloud coverage

Symbol	Cloud type	Code No.	Tenths of sky covered
Ci	Cirrus	0	None
Cc	Cirrocumulus	1	1
Cs	Cirrostratus	2	2
Ac	Alto cumulus	3	3
As	Altostratus	4	4
Sc	Stratocumulus	5	5
St	Stratus	6	6
Ns	Nimbostratus	7	7
Cu	Cumulus	8	8
Cb	Cumulonimbus	9	9
		10	10

Table 8.--Visibility

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

Notes on Cruises 1 through 3

It will be noticed that samples for organic determinations were taken at three levels at alternate stations, and that total phosphorus was not included. These early collections were made to determine the feasibility of freezing the samples at sea with subsequent analyses being made ashore after a cruise was completed. During these early cruises we were also short of personnel and it would have been impossible to analyze full complements of samples as in the later cruises.

Note on Cruise 1

The carbohydrate values for Cruise 1 at the deeper levels are almost all indicated as "green". This means that the reacted samples were green to the eye instead

of the normal reddish-purple. However, the filters used in the photometer prevented the measurement of the light transmitted in the green portion of the spectrum, hence some green values are given as zero carbohydrates. The fact that the green response all but disappeared in the later analyses would indicate that an unknown technical difficulty caused the reaction to yield green. The values are included for the sake of completeness, and because, in spite of the discoloration, I feel that they are still representative of some measurable component present in the sea water. The existence of values of similar magnitudes in the deeper levels at stations occupied during the later cruises supports this contention. There is a possibility that high nitrate-nitrites will cause a green reaction to N-ethyl carbazole reagent in the absence of carbohydrates.

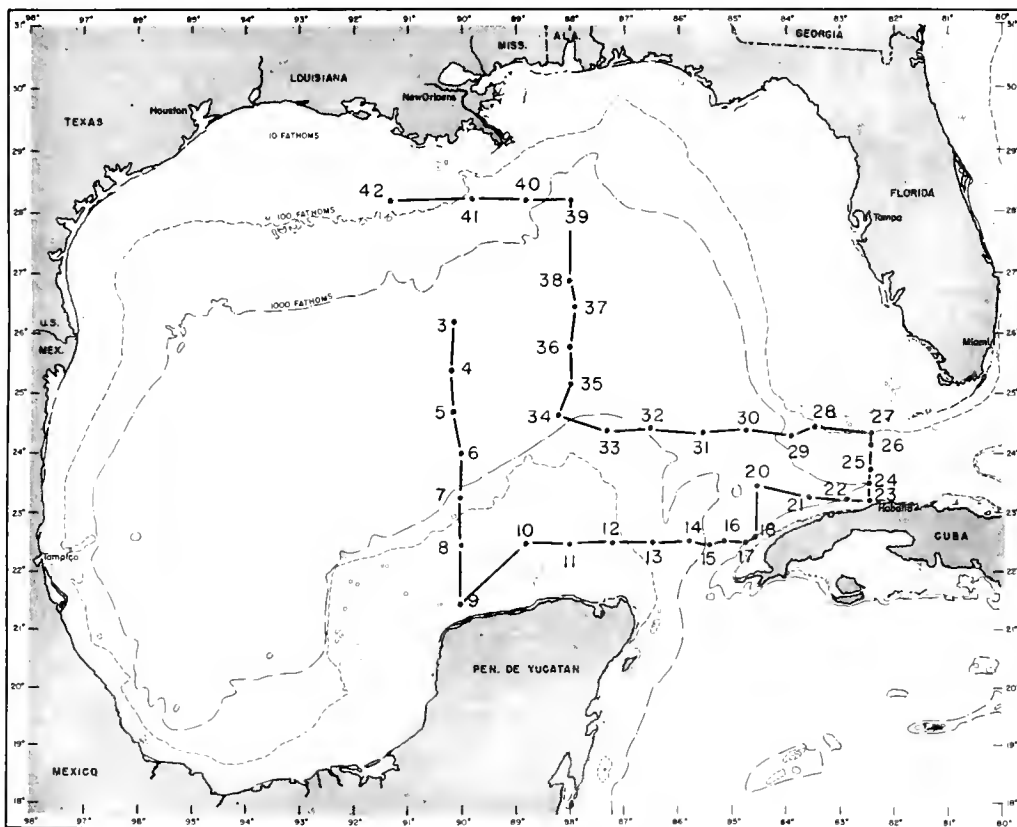


Figure 15.--Locations of stations occupied on Cruise 1-1A.

STATION NO. 1-1A-3

DATE 22 4 1951 LAT. 26° 07' N. LONG. 90° 09' W.
 Day Month Year
 TIME 0502 DEPTH 1660 MAX. SAMPLE DEPTH 400 WIRE ANGLE 38 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 02 SEA 4 SWELL 120 ° T. 6 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 2 TEMP. 78.0 °F. 75.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 87 WIND 175 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C.	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.60	35.84				
8	25.61	35.82	0.0	0.6	1.6	0.0
24	25.62	35.86				
46	25.57	35.82				
67	25.57	35.88				
86	25.62	35.84				
123	25.61	35.79				
158	23.16	36.65	0.1	3.8	0.1	2.3
234	---	36.53				
312	---	35.81				
400	14.99	35.79				
*1170	---	---	0.4	0.3	0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C.	Sal. ‰	σ _t
0	25.60	35.84	23.81
10	25.61	35.82	23.79
20	25.62	35.82	23.79
30	25.59	35.82	23.80
50	25.57	35.82	23.81
75	25.57	35.84	23.82
100	25.61	35.85	23.82
150	23.60	36.60	24.99
200	20.05	36.69	26.05
250	18.11	36.60	26.49
300	16.57	35.90	26.32
400	14.99	35.79	26.60

*Uncorrected depth

STATION NO. 1-1A-4

DATE 22 4 1951 LAT. 25° 20' N. LONG. 90° 07' W.
 Day Month Year
 TIME 2108 DEPTH 1850 MAX. SAMPLE DEPTH 1306 WIRE ANGLE 23 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 150 ° T. 6 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 5 TEMP. 80.8 °F. 70.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 61% WIND 180 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	24.99	36.08	0	24.99	36.08	24.18
9	24.59	36.02	10	24.59	36.02	24.26
27	23.57	36.24	20	23.85	36.06	24.51
54	22.15	36.78	30	22.90	36.27	24.94
80	21.28	36.82	50	22.17	36.77	25.53
105	20.44	36.71	75	21.35	36.82	25.80
156	18.43	36.49	100	20.50	36.76	25.99
205	17.22	36.36	150	18.70	36.51	26.27
305	14.07	35.81	200	17.40	36.37	26.49
402	11.20	35.37	250	15.55	36.10	26.71
504	9.24	35.08	300	14.15	35.83	26.81
605	8.81	35.08	400	11.35	35.39	27.03
864	5.35	34.79	500	9.30	35.09	27.16
1306	4.28	34.87	600	8.89	35.08	27.22
			700	7.73	34.88	27.24
			800	6.05	34.84	27.44
			1000	4.80	34.80	27.56
			1200.	4.39	34.83	27.63

STATION NO. 1-1A-5

DATE 23 4 1951 LAT. 24° 40' N. LONG. 90° 07' W.
 Day Month Year
 TIME 1417 DEPTH 2000 MAX. SAMPLE DEPTH 1257 WIRE ANGLE 28 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 075 ° T. 5 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Cu 6 TEMP. 77.6 °F. 74.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 83% WIND 080 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.11	36.24				
13	24.23	36.13	0	1.3	0.4	0
30	23.59	36.47				
62	22.64	36.49				
90	21.07	36.35				
120	19.48	36.51				
179	16.23	36.08				
240	14.01	35.70				
358	10.49	35.19				
484	8.32	34.90				
736	5.91	35.23				
995	4.90	35.16	1.8	16.6	3.6 ^a	1.6
1257	4.33	34.79				
* 2500	---	---	0.5	0.9	3.0	0

(a) green carbohydrates

* Uncorrected depth

STATION NO. 1-1A-5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	24.11	36.24	24.57
10	24.25	36.15	24.46
20	23.90	36.14	24.55
30	23.59	36.47	24.90
50	22.95	36.50	25.10
75	21.90	36.41	25.34
100	20.70	36.38	25.64
150	17.70	36.39	26.43
200	15.40	35.92	26.61
250	13.60	35.63	26.78
300	11.98	35.40	26.92
400	9.65	35.07	27.09
500	8.09	34.91	27.21
600	6.99	35.06	27.49
700	6.12	35.21	27.72
800	5.60	35.22	27.80
1000	4.90	35.16	27.84
1200	4.65	34.87	27.63

STATION NO. 1-1A-6

DATE 23 4 1951 LAT. 24° 00' N. LONG. 90° 00' W.
 Day Month Year
 TIME 2300 DEPTH 1900 MAX. SAMPLE DEPTH 1292 WIRE ANGLE 5 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 075 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Sc Cu 2 5 TEMP. 77.6 °F. 74.4 °F.
 Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 83 % WIND 080 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C.	Sal. ‰	Depth	Temp. °C.	Sal. ‰	σ_t
0	24.39	36.26	0	24.39	36.26	24.50
13	24.12	36.35	10	24.10	36.32	24.63
29	23.34	36.44	20	23.64	36.39	24.82
63	22.65	36.56	30	23.34	36.46	24.96
92	21.90	36.53	50	22.87	36.53	25.15
124	20.27	36.35	75	22.38	36.56	25.31
182	15.89	36.02	100	21.38	36.48	25.53
241	12.88	35.52	150	18.60	36.16	26.03
355	9.65	35.05	200	14.70	35.92	26.76
483	7.82	34.67	250	12.45	35.46	26.88
1011	7.02	34.79	300	11.00	35.21	26.96
1292	5.23	34.83	400	8.83	34.87	27.06
			500	7.78	34.65	27.05
			600	7.45	34.63	27.08
			700	7.20	34.67	27.15
			800	7.10	34.71	27.20
			1000	7.02	34.78	27.26
			1200	5.98	34.82	27.43

STATION NO. 1-1A-7

DATE 24 4 1951 LAT. 23° 15' N. LONG. 90° 00' W.
 Day Month Year
 TIME 0749 DEPTH 420 MAX. SAMPLE DEPTH 296 WIRE ANGLE 8 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL --- ° T. 4 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 2 TEMP. 76.6 °F. 73.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 87% WIND 045 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.65	36.27	0.1	0.5	0	1.2
10	24.47	36.36				
25	24.28	36.40				
50	23.66	36.45				
75	22.93	36.49				
99	22.15	36.47				
148	18.10	36.11				
198	14.64	35.90	1.1	12.2	1.1	0
296	12.01	35.50				
*400	---	---	0.6	13.4	0 ^a	0

(a) green carbohydrates
 *Uncorrected depth

VALUES AT STANDARD DEPTHS

Depth	Temp. °C.	Sal. ‰	σ _t
0	24.65	36.27	24.43
10	24.47	36.35	24.54
20	24.33	36.39	24.61
30	24.12	36.41	24.69
50	23.66	36.45	24.86
75	22.93	36.49	25.10
100	22.15	36.47	25.31
150	17.67	36.11	26.22
200	14.55	35.90	26.78
250	13.14	35.67	26.90
300	11.97	35.49	26.99

STATION NO. 1-1A-8

DATE 24 4 1951 LAT. 22° 25' N. LONG. 90° 00' W.
Day Month Year
 TIME 1608 DEPTH 28 MAX. SAMPLE DEPTH 50 WIRE ANGLE 5 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 060 ° T. 4 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 2 TEMP. 80.0 °F. 75.6 °F.
Period Type Amount Dry Wet
 BAR. 30.05 in. REL. HUM. 81 % WIND 060 ° T. 2 VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C.	Sal. ‰	Depth	Temp. °C.	Sal. ‰	σ_t
0	24.58	36.51	0	24.58	36.51	24.63
10	24.53	36.51	10	24.53	36.51	24.65
25	24.29	36.62	20	24.38	36.62	24.77
50	23.64	36.51	30	24.11	36.62	24.85
			50	23.64	36.51	24.91

STATION NO. 1-1A-10

DATE 25 4 1951 LAT. 22° 30' N. LONG. 88° 46' W.
Day Month Year
 TIME 1826 DEPTH 29 MAX. SAMPLE DEPTH 40 WIRE ANGLE 8 °
GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 2 SWELL -- ° T. 6 ft.
Code Code Code Direction Hgt.
6 sec. CLOUDS -- -- TEMP. 80.0 °F. 75.1 °F.
Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 79% WIND 080 ° T. 3 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.38	36.26	1.4	0.6	8.3	0.0
5	24.25	36.26				
20	23.70	36.26	0.1	0.8	5.2	0.0
40	22.03	36.35	0.0	0.9	7.7	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	24.38	36.26	24.50
10	24.11	36.26	24.58
20	23.70	36.26	24.70
30	23.05	36.29	24.92

STATION NO. 1-1A-11

DATE 26 4 1951 LAT. 22° 30' N. LONG. 88° 00' W.
 Day Month Year
 TIME 0310 DEPTH 25 MAX. SAMPLE DEPTH 34 WIRE ANGLE 12 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 2 SWELL 080 ° T. 5 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS -- -- TEMP. 77.0 °F. 74.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 87% WIND 090 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C.	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.52	36.29	3.6	0.5	2.0	0.0
10	24.52	36.27				
24	22.88	36.17	0.1	0.4	0.1	0.0
34	21.75	36.24	1.4	0.6	3.6	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C.	Sal. ‰	σ_t
0	24.52	36.29	24.48
10	24.52	36.27	24.47
20	23.60	36.18	24.67
30	22.25	36.18	25.06

STATION NO. 1-1A-12

DATE 26 4 1951 LAT. 22° 30' N. LONG. 87° 14' W.
Day Month Year
 TIME 1235 DEPTH 25 MAX. SAMPLE DEPTH 30 WIRE ANGLE 3 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 5 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS Sc Cu 1 2 TEMP. 77.5 °F. 73.9 °F.
Period Type Amount Dry Wet
 BAR. 30.29 in. REL. HUM. 85 % WIND 090 ° T. 3 VIS. 8
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C.	Sal. ‰	Depth	Temp. °C.	Sal. ‰	σ_t
0	24.23	35.88	0	24.23	35.88	24.26
10	23.73	36.13	10	23.73	36.13	24.60
30	20.63	36.11	20	21.45	36.12	25.24
			30	20.63	36.11	25.46

STATION NO. 1-1A-13

DATE 26 4 1951 LAT. 22° 30' N. LONG. 86° 25' W.
 Day Month Year
 TIME 1935 DEPTH 300 MAX. SAMPLE DEPTH 426 WIRE ANGLE 23 °
 GCT Paths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 040 ° T. 7 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Sc Cu 1 3 TEMP. 84.0 °F. 75.8 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 69 % WIND 045 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C.	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.13	35.79	0.0	0.3	4.3	0.4
9	26.92	35.71				
23	26.88	35.75				
46	26.22	35.82				
69	24.87	35.91				
91	24.24	36.45				
139	20.87	36.67				
181	---	36.40				
219	---	36.08	0.5	10.2	5.7	0.0
256	15.50	35.84				
294	14.71	35.86				
334	13.09	35.53				
376	10.88	35.26				
422	9.60	35.25	1.4	19.1	1.8 ^a	1.5
426	9.34	---				

(a) Green carbohydrates

STATION NO. 1-1A-13

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.13	35.79	23.29
10	26.92	35.71	23.30
20	26.88	35.74	23.33
30	26.70	35.77	23.41
50	26.02	35.83	23.67
75	24.68	35.98	24.20
100	24.19	36.52	24.75
150	20.00	36.65	26.04
200	16.50	36.24	26.60
250	15.70	35.84	26.48
300	13.45	35.84	26.97
400	10.12	35.25	27.15

STATION NO. 1-1A-14

DATE 27 4 1951 LAT. 22° 30' N. LONG. 85° 48' W.
 Day Month Year
 TIME 0545 DEPTH 600 MAX. SAMPLE DEPTH 764 WIRE ANGLE 23°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 070 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 3 TEMP. 78.3 °F. 74.4 °F.
 Period Type Amount Dry Wet
 BAR: 34.04 in. REL. HUM. 83% WIND 070 ° T. 4 VIS: 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.37	35.71	0	26.37	35.71	23.47
9	26.38	35.68	10	26.40	35.68	23.44
23	26.38	35.81	20	26.39	35.81	23.54
46	25.47	35.68	30	26.17	35.79	23.60
69	24.95	35.75	50	25.33	35.69	23.78
92	24.79	36.08	75	24.90	35.80	24.00
138	24.80	36.17	100	24.80	36.13	24.28
174	24.27	36.09	150	24.72	36.15	24.32
235	---	36.74	200	21.95	36.39	25.31
287	17.49	36.42	250	19.20	36.70	26.29
342	15.76	36.24	300	17.07	36.38	26.57
413	13.78	35.81	400	14.10	35.86	26.85
487	11.68	35.53	500	11.43	35.49	27.10
576	10.16	35.28				
764	---	35.75				

STATION NO. 1-1A-15

DATE 27 4 1951 LAT. 22° 30' N. LONG. 85° 25' W.
 Day Month Year
 TIME 1248 DEPTH 1100 MAX. SAMPLE DEPTH 2299 WIRE ANGLE 10 °
 GCT Fath's. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL --- ° T. 7 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Sc Cu 1 1 TEMP. 78.2 °F. 73.4 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 80 % WIND 045 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.09	35.77	0.0	1.1	0.0	1.1
14	26.06	35.73				
33	25.94	35.81				
71	24.94	35.93				
105	24.01	36.26				
142	22.95	36.71				
212	19.75	36.69				
280	17.85	36.44				
408	---	35.88				
541	10.96	35.35				
796	6.43	34.88				
1058	4.91	34.85	1.0	21.1 ^b	2.0 ^a	0.0
1329	4.29	34.92				
1611	4.21	34.94				
2299	---	34.92	2.4	23.3 ^b	2.8 ^a	0.0

(a) Green carbohydrates

(b) Indicates not in accurate range of curve- value probably somewhat higher.

STATION NO. 1-1A-15

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	26.09	35.77	23.61
10	26.09	35.74	23.58
20	26.02	35.74	23.61
30	25.99	35.78	23.65
50	25.55	35.86	23.84
75	24.75	35.94	24.15
100	24.07	36.07	24.45
150	22.59	36.71	25.37
200	20.17	36.70	26.03
250	18.63	36.59	26.35
300	17.10	36.30	26.50
400	14.35	35.90	26.83
500	11.80	35.45	27.00
600	9.50	35.25	27.25
700	7.64	35.05	27.39
800	6.44	34.88	27.42
1000	5.16	34.84	27.55
1200	4.49	34.89	27.67
1500	4.20	34.93	27.73

STATION NO. 1-1A-16

DATE 27 4 1951 LAT. 22° 30' N. LONG. 85° 07' W.
 Day Month Year
 TIME 1900 DEPTH 1200 MAX. SAMPLE DEPTH 1210 WIRE ANGLE 14 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL --- ° T. - ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Sc Cu 1 1 TEMP. 78.5 °F. 73.1 °F.
 Period Type Amount Dry Wet
 BAR. 30.04 in. REL. HUM. 77% WIND 045 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.16	35.82	0	26.16	35.82	23.62
10	25.86	35.86	10	25.86	35.86	23.75
29	25.55	35.86	20	25.70	35.86	23.80
58	25.10	35.88	30	25.55	35.86	23.84
87	24.97	36.06	50	25.21	35.87	23.95
115	24.41	36.26	75	25.00	35.97	24.09
170	22.81	36.76	100	24.77	36.14	24.29
223	---	36.73	150	23.53	36.58	25.00
324	15.77	36.04	200	21.31	36.76	25.77
508	11.51	35.46	250	19.03	36.45	26.14
600	7.50	34.85	300	16.81	36.11	26.43
802	6.14	34.74	400	14.00	35.85	26.86
1003	5.10	34.79	500	11.80	35.53	27.06
1210	4.74	34.87	600	7.50	34.85	27.25
			700	6.75	34.76	27.29
			800	6.13	34.74	27.35
			1000	5.10	34.79	27.52
			1200	4.78	34.87	27.62

STATION NO. 1-1A-17

DATE 28 4 1951 LAT. 22° 30' N. LONG. 84° 45' W.
 Day Month Year
 TIME 0045 DEPTH 1000 MAX. SAMPLE DEPTH 1208 WIRE ANGLE 21 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 050 ° T. 5 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 3 TEMP. 78.4 °F. 73.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 78 % WIND 060 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.95	35.82	0.0	0.5	2.2	0.0
14	25.94	35.84				
33	25.59	35.82				
70	24.90	35.95				
103	---	36.24				
139	21.97	36.87				
265	19.93	36.47				
377	---	35.86				
487	12.06	35.48				
580	9.01	35.21				
685	6.70	34.85	2.1	24.4 ^b	1.8	4.0
931	4.97	34.90				
1208	4.35	34.92				
*1200	--	---	2.8	20.4	7.4	0.0

*Uncorrected depth

(b) Indicates not in accurate range of curve- value probably somewhat higher.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t
0	25.95	35.82	23.69
10	25.95	35.84	23.70
20	25.88	35.83	23.72
30	25.63	35.82	23.79
50	25.30	35.88	23.93
75	24.61	35.98	24.22
100	23.55	36.19	24.69
150	21.80	36.87	25.71
200	21.00	36.80	25.88
250	20.28	36.56	25.89
300	18.74	36.20	26.02
400	15.13	35.78	26.56
500	11.51	35.46	27.06
600	8.39	35.14	27.34
700	6.53	34.84	27.38
800	5.68	34.86	27.50
1000	4.78	34.91	27.65
1200	4.36	34.92	27.71

STATION NO. 1-1A-18

DATE 28 4 1951 LAT. 22° 30' N. LONG. 84° 32' W.
 Day Month Year
 TIME 0443 DEPTH 600 MAX. SAMPLE DEPTH 448 WIRE ANGLE 20 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL --- ° T. - ft.
 Code Code Code Direction Hgt.
 --- sec. CLOUDS Cu 3 TEMP. 77.8 °F. 72.9 °F.
 Period Type Amount Dry Wet
 BAR. 30.03 in. REL. HUM. 79% WIND 050 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.06	35.90	0	26.06	35.90	23.71
9	26.05	35.81	10	26.15	35.81	23.65
23	26.07	35.79	20	26.07	35.79	23.63
46	25.70	35.81	30	26.00	35.79	23.65
69	---	35.84	50	25.61	35.81	23.79
92	24.56	35.95	75	24.99	35.86	24.01
137	23.32	36.62	100	24.36	36.04	24.34
182	21.79	36.67	150	22.87	36.65	25.24
268	---	36.36	200	21.30	36.67	25.70
356	16.70	35.93	250	19.81	36.65	26.09
448	13.90	35.82	300	18.34	36.56	26.40
			400	15.26	35.86	26.59

STATION NO. 1-1A-20

DATE 28 4 1951 LAT. 23° 28' N. LONG. 84° 32' W.
 Day Month Year
 TIME 1452 DEPTH 1540 MAX. SAMPLE DEPTH 1296 WIRE ANGLE 37°
 GGT Faths Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 045 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 79.5 °F. 73.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.05 in. REL. HUM. 74 % WIND 045 ° T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.09	35.70	0.0	0.9	0	1.0
8	26.10	35.64				
24	26.09	35.62				
48	26.06	35.55				
72	25.52	35.64				
98	25.06	35.82				
148	24.05	36.18				
199	23.09	36.82				
304	---	36.42				
405	---	36.04				
515	12.75	35.66				
621	10.13	35.28	1.7	25.3 ^b	1.5 ^a	0.2
845	7.05	34.92				
1064	5.43	---				
1275	4.57	---	1.5	19.4	7.2 ^a	0.0

(a) Green carbohydrates

(b) Indicates not in accurate range of curve- value probably somewhat higher.

STATION NO. 1-1A-20

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	26.09	35.70	23.55
10	26.10	35.64	23.51
20	26.09	35.63	23.50
30	26.09	35.59	23.47
50	26.06	35.55	23.45
75	25.52	35.64	23.69
100	25.09	35.81	23.95
150	24.12	36.14	24.49
200	23.19	36.80	25.26
250	22.05	36.71	25.52
300	20.70	36.51	25.74
400	17.50	36.10	26.25
500	14.09	35.77	26.78
600	11.09	35.45	27.13
700	9.16	35.15	27.23
800	7.60	34.97	27.33
1000	5.85	34.93	27.54
1200	4.85	34.98	27.70

STATION NO. 1-1A-21

DATE 29 4 1951 LAT. 23° 15' N. LONG. 83° 35' W.
 Day Month Year
 TIME 0052 DEPTH 1350 MAX. SAMPLE DEPTH 1201 WIRE ANGLE 34 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 3 SWELL 045 ° T. 9 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Sc 1 2 TEMP. 78.6 °F. 74.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 81% WIND 045 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.23	35.68	0	26.23	35.68	23.50
8	25.24	35.68	10	26.25	35.67	23.48
25	25.96	35.66	20	26.20	35.66	23.49
49	25.59	35.68	30	25.93	35.66	23.57
74	---	35.79	50	25.55	35.70	23.72
99	24.83	35.90	75	25.10	35.80	23.94
150	24.36	36.44	100	24.85	35.94	24.12
201	21.32	36.80	150	24.30	36.47	24.68
302	---	36.35	200	21.40	36.80	25.77
399	14.86	35.93	250	19.30	36.76	26.31
500	12.56	35.50	300	17.50	36.35	26.45
596	9.96	35.08	400	14.80	35.92	26.74
797	6.90	34.81	500	12.56	35.50	26.89
996	5.35	34.90	600	9.80	35.07	27.06
1201	4.61	34.85	700	8.15	34.89	27.19
			800	6.85	34.81	27.31
			1000	5.32	34.90	27.58
			1200	4.60	34.85	27.62

STATION NO. 1-1A-22

DATE 29 4 1951 LAT. 23° 15' N. LONG. 82° 50' W.
 Day Month Year
 TIME 0858 DEPTH 1000 MAX. SAMPLE DEPTH 1188 WIRE ANGLE 20°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 8 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Cu 1 TEMP. 77.9 °F. 73.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 79 % WIND 090 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.47	35.71	0	26.47	35.71	23.44
9	26.49	35.75	10	26.48	35.75	23.47
28	26.52	35.88	20	26.50	35.86	23.55
57	25.99	35.88	30	26.50	35.88	23.56
86	24.17	35.95	50	26.15	35.88	23.67
116	23.79	35.93	75	24.60	35.94	24.19
176	21.80	---	100	23.99	35.96	24.39
236	20.30	36.55	150	22.60	36.09	24.89
357	15.56	36.04	200	21.10	36.39	25.54
595	9.02	35.01	250	19.49	36.54	26.09
712	7.30	34.85	300	17.29	36.25	26.42
952	5.48	34.83	400	13.82	35.84	26.89
1188	4.56	34.87	500	11.12	35.40	27.08
			600	9.00	35.00	27.14
			700	7.45	34.85	27.26
			800	6.50	34.82	27.37
			1000	5.20	34.83	27.54
			1200	4.50	34.88	27.66

STATION NO. 1-1A-23

DATE 29 4 1951 LAT. 23° 11' N. LONG. 82° 24' W.
 Day Month Year
 TIME 1406 DEPTH 600 MAX. SAMPLE DEPTH 724 WIRE ANGLE 20°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 5 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 1 TEMP. 79.0 °F. 73.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 77 % WIND 090 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.28	35.79	0.0	1.3	2.1	0.0
9	26.29	35.81				
24	26.20	35.82				
48	25.37	35.79				
72	24.92	35.97				
97	23.89	36.02				
205	21.38	36.62				
257	---	36.49				
309	17.10	36.26				
365	15.58	36.11	2.2	18.0	0.0 ^a	0.0
416	14.52	---				
518	11.53	35.53				
624	9.38	35.23				
724	7.72	35.03	2.8	19.2	3.5 ^a	0.0

(a) Green carbohydrates

STATION NO. 1-1A-23

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	26.28	35.79	23.56
10	26.29	35.81	23.57
20	26.18	35.82	23.62
30	25.89	35.81	23.70
50	25.28	35.79	23.87
75	24.80	35.98	24.16
100	23.85	36.03	24.49
150	23.19	36.41	24.97
200	21.50	36.61	25.60
250	19.36	36.51	26.10
300	17.37	36.30	26.44
400	14.89	35.94	26.74
500	12.00	35.59	27.07
600	9.80	35.23	27.18
700	8.09	35.08	27.34

STATION NO. 1-1A-24

DATE 29 4 1951 LAT. 23° 27 N. LONG. 82° 24 W.
Day Month Year
 TIME 1837 DEPTH 900 MAX. SAMPLE DEPTH 875 WIRE ANGLE 22°
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 3 SWELL --- ° T. 8 ft.
Code Code Code Direction Hgt.
6 sec. CLOUDS Cb Cu 1 2 TEMP. 78.5 °F. 73.8 °F.
Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 83 % WIND 090 ° T. 4 VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.62	36.35	0	26.62	36.35	23.88
9	26.56	36.31	10	26.56	36.31	23.87
27	26.50	36.09	20	26.52	36.19	23.79
53	25.18	36.42	30	26.46	36.09	23.73
79	23.69	36.49	50	25.70	36.42	24.22
104	23.39	36.53	75	23.80	36.49	24.85
197	19.32	36.67	100	23.45	36.52	24.97
363	---	36.29	150	22.14	36.62	25.43
446	---	35.84	200	19.30	36.66	26.23
529	9.78	35.19	250	16.75	36.41	26.67
700	8.13	35.01	300	14.70	36.15	26.94
875	6.82	34.90	400	12.15	35.61	27.05
			500	10.20	35.24	27.12
			600	9.04	35.09	27.20
			700	8.13	35.01	27.28
			800	7.43	34.94	27.33

STATION NO. 1-1A-25

DATE 29 4 1951 LAT. 23° 46' N. LONG. 82° 24' W.
 Day Month Year
 TIME 2310 DEPTH 800 MAX. SAMPLE DEPTH 892 WIRE ANGLE - °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 °T. 6 ft.
 Code Code Code Direction Hgt.
 --- sec. CLOUDS Cs 7 TEMP. 77.0 °F. 74.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.89 in. REL. HUM. 87 % WIND 090 ° T. 5 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	24.83	36.06	0	24.83	36.06	24.21
9	24.73	36.09	10	24.73	36.09	24.27
27	23.53	36.15	20	24.05	36.12	24.49
55	22.29	36.27	30	23.50	36.10	24.69
82	21.40	36.42	50	22.41	36.26	25.08
109	19.76	36.42	75	21.66	36.42	25.41
152	17.68	36.35	100	20.70	36.43	25.68
212	15.34	35.91	150	18.20	36.38	26.30
306	12.35	35.53	200	15.80	36.03	26.60
388	9.73	35.19	250	14.10	35.74	26.76
556	7.19	34.96	300	12.50	35.53	26.92
725	6.31	34.92	400	9.51	35.16	27.18
892	5.49	34.94	500	7.78	35.00	27.33
			600	6.95	34.94	27.40
			700	6.44	34.92	27.45
			800	5.93	34.93	27.53

STATION NO. 1-1A-26

DATE 30 4 1951 LAT. 24° 03' N. LONG. 82° 24' W.
 Day Month Year
 TIME 0311 DEPTH 350 MAX. SAMPLE DEPTH 298 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 3 TEMP. 77.0 °F. 75.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 91 % WIND 090 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	24.72	36.17	0	24.72	36.17	24.33
10	24.68	36.13	10	24.68	36.13	24.31
25	24.43	36.09	20	24.48	36.09	24.34
49	21.70	36.38	30	23.70	36.18	24.64
74	19.67	36.31	50	21.70	36.38	25.37
99	16.79	36.20	75	19.20	36.30	25.98
148	13.57	35.70	100	16.70	36.20	26.52
198	13.41	35.55	150	13.56	35.69	26.83
298	9.83	35.19	200	13.39	35.54	26.75
			250	11.80	35.34	26.91
			300	9.80	35.19	27.15

STATION NO. 1-1A-27

DATE 4 5 1951 LAT. 24° 22' N. LONG. 82° 24' W.
Day Month Year
 TIME 0047 DEPTH 70 MAX. SAMPLE DEPTH 100 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 04 SEA 1 SWELL 330 ° T. 1 ft.
Code Code Code Direction Hgt.
8 sec. CLOUDS - -- TEMP. 77.9 °F. 71.1 °F.
Period Type Amount Dry Wet
 BAR. 29.89 in. REL. HUM. 71 % WIND 330 ° T. 1 VIS. 7
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.51	36.06	0	25.51	36.06	24.01
10	24.85	36.02	10	24.85	36.02	24.18
25	23.12	36.09	20	23.09	36.05	24.72
50	20.24	36.24	30	22.51	36.13	24.95
75	16.38	36.02	50	20.24	36.24	25.66
100	13.84	35.71	75	16.38	36.02	26.46
			100	13.84	35.71	26.79

STATION NO. 1-1A-28

DATE 4 5 1951 LAT. 24° 22' N. LONG. 83° 27'W.
 Day Month Year
 TIME 0916 DEPTH 320 MAX. SAMPLE DEPTH 360 WIRE ANGLE 16°
 GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 1 SWELL 345 ° T. 1 ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS 00 00 TEMP. 76.0 °F. 71.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.88in. REL. HUM. 80 % WIND 350 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.16	36.35	0.1	0.5	2.9	1.8 ^c
10	24.86	36.33				
24	24.71	36.35				
48	22.88	36.35				
71	21.92	36.69				
94	---	36.60				
139	12.81	35.86				
183	12.12	35.46	1.5	21.6 ^b	7.8 ^a	---
271	9.43	35.16				
360	8.10	35.07		18.2	10.3 ^a	1.0

(a) Green carbohydrates

(b) Indicates not in accurate range of curve- value probably somewhat higher.

(c) Indicates cloudy sample.

STATION NO. 1-1A-28

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	25.16	36.35	24.33
10	24.86	36.33	24.41
20	24.72	36.34	24.46
30	24.40	36.35	24.56
50	22.80	36.38	25.06
75	21.70	36.69	26.60
100	19.02	36.58	26.24
150	12.78	35.74	27.03
200	11.79	35.40	26.96
250	10.00	35.22	27.14
300	9.00	35.12	27.23

STATION NO. 1-1A-29

DATE 4 5 1951 LAT. 24° 22' N. LONG. 83° 55' W.
 Day Month Year
 TIME 1517 DEPTH 600 MAX. SAMPLE DEPTH 484 WIRE ANGLE 20°
 GCT Faths. Meters
 WATER COLOR - WEATHER 04 SEA 1 SWELL 330 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS ci 1 TEMP. 81.5 °F. 74.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 72 % WIND 330 ° T. 1 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.45	35.43	0.1	1.1	1.0	0.0
10	23.65	35.75				
24	22.56	35.90				
46	21.93	36.31				
68	21.68	36.56				
89	20.64	36.53				
126	19.04	36.38				
158	16.90	36.31				
218	14.42	35.90				
231	12.76	35.86				
345	11.38	35.50	1.3	14.9	3.9 ^a	---
414	9.87	35.26				
484	10.06	35.32				
*800	---	---	---	10.9	1.2	---

*Uncorrected depth

(a) Green carbohydrates

STATION NO. 1-1A-29

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	24.45	35.43	23.85
10	23.65	35.75	24.33
20	22.80	35.90	24.69
30	22.38	36.05	24.93
50	21.89	36.37	25.31
75	21.50	36.56	25.56
100	20.21	36.48	25.85
150	17.29	36.33	26.48
200	15.05	36.10	26.83
250	13.47	35.88	27.00
300	12.35	35.80	27.16
400	10.07	35.26	27.16

STATION NO. 1-1A-30

DATE 5 5 1951 LAT. 24° 23' N. LONG. 84° 40' W.
 Day Month Year
 TIME 0235 DEPTH 1820 MAX. SAMPLE DEPTH 2278 WIRE ANGLE 13°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 280 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 1 TEMP. 78.8 °F. 71.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.86 in. REL. HUM. 68 % WIND 280 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.76	35.77	0	25.76	35.77	23.71
15	24.36	35.59	10	25.00	35.63	23.84
34	23.92	35.95	20	24.17	35.58	24.05
73	21.70	36.35	30	23.97	35.58	24.11
107	21.45	36.60	50	22.70	35.90	24.72
145	---	36.53	75	21.69	36.35	25.35
216	16.81	36.31	100	21.49	36.60	25.59
286	13.87	35.91	150	20.47	36.52	25.81
417	10.45	35.26	200	17.82	36.37	26.38
553	8.14	34.96	250	14.92	36.11	26.86
680	6.80	34.94	300	13.34	35.76	26.93
815	5.64	34.90	400	10.76	35.30	27.07
1076	4.72	34.94	500	8.88	35.04	27.19
1340	4.30	34.99	600	7.65	34.95	27.31
1610	4.21	34.96	700	6.55	34.94	27.45
2278	4.20	34.96	800	5.73	34.90	27.53
			1000	4.92	34.92	27.64
			1200	4.44	34.96	27.73
			1500	4.23	34.97	27.76
			2000	4.20	34.95	27.75

STATION NO. 1-1A-31

DATE 5 5 1951 LAT. 24° 22' N. LONG. 85° 31' W.
 Day Month Year
 TIME 1320 DEPTH 1800 MAX. SAMPLE DEPTH 761 WIRE ANGLE 25°
 GCT Faths. Meters
 WATER COLOR - WEATHER 13 SEA 2 SWELL 280 ° T. 4 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Sc Cu 2 2 TEMP. 80.3 °F. 73.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 72 % WIND 280 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.12	35.91	1.6	0.4	16.9	0.0
14	26.09	35.88				
32	25.86	35.88				
68	25.05	35.91				
99	24.52	36.04				
134	23.88	36.26				
200	22.66	36.74				
265	19.64	36.73				
389	15.02	35.95				
516	10.84	35.26				
634	8.77	35.05				
761	7.08	34.90				
* 800	---	---	0.0	1.5	0.7	0.0
* 1500	---	---	0.8	18.9	0.0 ^a	0.5

*Uncorrected depth.

(a) Green carbohydrates

STATION NO. 1-1A-31

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	26.12	35.91	23.70
10	26.09	35.88	23.69
20	26.02	35.88	23.71
30	25.87	35.88	23.76
50	25.47	35.89	23.89
75	24.86	35.94	24.11
100	24.45	36.04	24.31
150	23.70	36.40	24.81
200	22.66	36.74	25.37
250	20.49	36.75	25.98
300	18.45	36.60	26.40
400	14.45	35.83	26.75
500	11.25	35.31	26.99
600	9.30	35.11	27.17
700	7.85	34.97	27.29

STATION NO. 1-1A-32

DATE 5 5 1951 LAT. 24° 22' N. LONG. 86° 30' W.
 Day Month Year
 TIME 2303 DEPTH 1150 MAX. SAMPLE DEPTH 1813 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 330 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Ci Cu 1 1 TEMP. 80.1 °F. 73.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.86 in. REL. HUM. 72 % WIND 270 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.56	35.88	0	26.56	35.88	23.54
15	26.15	35.95	10	26.21	35.94	23.70
35	25.99	35.99	20	26.10	35.97	23.75
75	25.22	36.13	30	26.00	35.99	23.80
110	24.83	36.65	50	25.75	36.03	23.91
150	23.58	36.83	75	25.32	36.13	24.12
226	19.49	36.87	100	24.95	36.40	24.43
302	17.74	36.64	150	23.58	36.83	25.17
450	14.01	35.88	200	20.65	36.88	26.04
608	10.04	35.26	250	18.84	36.84	26.49
755	7.84	34.97	300	17.84	36.70	26.63
911	6.11	34.94	400	15.50	36.11	26.73
1213	4.52	34.97	500	12.75	35.64	26.96
1513	4.22	34.99	600	10.25	35.29	27.15
1813	4.19	35.05	700	8.60	35.05	27.24
			800	7.22	34.95	27.37
			1000	5.46	34.94	27.59
			1200	4.58	34.97	27.72
			1500	4.20	34.99	27.78

STATION NO. 1-1A-33

DATE 6 5 1951 LAT. 24° 22' N. LONG. 87° 15' W.
Day Month Year
 TIME 0530 DEPTH 750 MAX. SAMPLE DEPTH 1167 WIRE ANGLE 9°
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 270 ° T. 5 ft.
Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 2 TEMP. 78.0 °F. 72.5 °F.
Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 77 % WIND 270 ° T. 3 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.19	36.04	0.1	0.6	0.0	2.5
10	27.18	36.04				
25	27.12	36.08				
54	26.07	36.20				
79	25.22	36.42				
108	23.39	36.98				
214	17.87	36.65				
312	15.89	36.09				
412	13.04	35.59				
507	10.37	35.21				
602	8.57	34.99	2.1	21.1 ^b	10.6 ^a	0.8
784	6.04	34.87				
973	4.78	34.87				
1167	4.34	34.92	2.4	21.5 ^b	2.4 ^a	0.0

(a) Green carbohydrates.

(b) Indicates not in accurate range of curve-value probably somewhat higher.

STATION NO. 1-1A-33

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	27.19	36.04	23.46
10	27.18	36.04	23.46
20	27.11	36.06	23.50
30	26.98	36.10	23.57
50	26.37	36.19	23.84
75	25.40	36.38	24.28
100	24.00	36.97	25.15
150	20.60	36.92	26.08
200	18.42	36.71	26.49
250	17.10	36.43	26.60
300	16.18	36.15	26.61
400	13.40	35.65	26.83
500	10.55	35.23	27.05
600	8.57	35.00	27.21
700	7.10	34.91	27.35
800	5.95	34.87	27.48
1000	4.73	34.88	27.63
1200	(4.35)	(34.93)	27.71

() Extrapolated values.

STATION NO. 1-1A-34

DATE 6 5 1951 LAT. 24° 38' N. LONG. 88° 12' W.
Day Month Year
 TIME 1245 DEPTH 850 MAX. SAMPLE DEPTH 1381 WIRE ANGLE 4 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 000 ° T. 3 ft.
Code Sc Code Code Direction Hgt.
4 sec. CLOUDS 3,2,3 TEMP. 78.2 °F. 72.0 °F.
Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 75 % WIND 000 ° T. 3 VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ _t
0	25.48	36.22	0	25.48	36.22	24.14
10	25.48	36.24	10	25.48	36.24	24.15
30	24.92	36.58	20	25.29	36.45	24.37
60	20.50	36.49	30	24.92	36.58	24.58
90	17.97	36.35	50	21.50	36.53	25.54
120	16.17	36.17	75	19.30	36.40	26.03
180	13.95	35.79	100	17.12	36.30	26.50
240	12.74	35.55	150	14.85	35.98	26.78
359	9.77	35.10	200	13.61	35.72	26.84
473	7.76	34.99	250	12.45	35.49	26.90
593	6.59	34.85	300	11.15	35.26	26.97
708	5.74	34.85	400	8.95	35.07	27.20
942	4.88	34.88	500	7.47	34.95	27.33
1166	4.36	34.88	600	6.53	34.84	27.38
1381	4.24	34.96	700	5.79	34.85	27.48
			800	5.38	34.86	27.54
			1000	4.70	34.88	27.64
			1200	4.31	34.89	27.69

STATION NO. 1-1A-35

DATE 6 5 51 LAT. 25° 09' N. LONG. 88° 00' W.
Day Month Year
 TIME 1836 DEPTH 1800 MAX. SAMPLE DEPTH 2275 WIRE ANGLE 20 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 080 ° T. 4 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS 4 1 TEMP. 79.8 °F. 70.3 °F.
Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 61 % WIND 090 ° T. 2 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.62	36.09	0.0	0.9	6.2	0.0
14	25.17	36.08				
33	23.93	36.04				
71	20.78	36.42				
103	18.34	---				
141	16.10	36.35				
212	13.92	36.00				
282	11.89	35.62				
419	9.09	35.16				
564	7.23	35.03				
700	5.99	35.03				
842	5.22	35.05				
1113	4.39	35.08	1.7	21.5 ^b	0.4	0.0
1381	4.22	34.97				
1647	4.19	34.88				
2275	4.20	34.85	1.3	18.1	0.0	0.0

(b) Indicates not in accurate range of curve- value probably somewhat higher.

STATION NO. 1-1A-35

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	25.62	36.09	23.99
10	25.40	36.08	24.05
20	24.55	36.08	24.31
30	24.10	36.02	24.40
50	22.45	36.25	25.06
75	20.50	36.42	25.73
100	18.65	36.40	26.20
150	15.90	36.34	26.82
200	14.30	36.08	26.97
250	12.73	35.79	27.08
300	11.45	35.55	27.14
400	9.38	35.20	27.23
500	7.99	35.07	27.35
600	6.87	35.03	27.48
700	5.99	35.03	27.60
800	5.38	35.05	27.69
1000	4.62	35.07	27.80
1200	4.31	35.05	27.81
1500	4.21	34.92	27.72
2000	4.12	34.86	27.68

STATION NO. 1-1A-36

DATE 7 5 1951 LAT. 25° 46' N. LONG. 88° 00' W.
Day Month Year
 TIME 0115 DEPTH 1700 MAX. SAMPLE DEPTH 854 WIRE ANGLE 25°
GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 1 SWELL 080 ° T. 2 ft.
Code Ac Code Code Direction Hgt.
4 sec. CLOUDS Cl St 4,3,1 TEMP. 78.0 °F. 70.0 °F.
Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 67 % WIND 080 ° T. 1 VIS. 8
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.73	36.24	0	25.73	36.24	24.07
14	25.66	36.29	10	25.67	36.29	24.13
33	25.34	36.18	20	25.40	36.24	24.18
70	---	36.65	30	25.21	36.18	24.19
103	22.82	---	50	24.90	36.35	24.41
140	21.19	36.45	75	24.00	36.65	24.91
204	18.14	36.24	100	23.00	36.58	25.15
263	14.73	36.06	150	20.70	36.44	25.69
360	11.28	35.34	200	18.18	36.25	26.20
438	9.05	34.88	250	15.35	36.10	26.76
505	7.62	---	300	13.30	35.83	26.99
617	6.20	34.85	400	9.80	34.99	27.00
854	5.07	34.88	500	7.77	34.86	27.22
			600	6.37	34.85	27.41
			700	5.55	34.86	27.52
			800	5.19	34.87	27.57

STATION NO. 1-1A-37

DATE 7 5 1951 LAT. 26° 22' N. LONG. 87° 55' W.
 Day Month Year
 TIME 0836 DEPTH 1500 MAX. SAMPLE DEPTH 753 WIRE ANGLE 37°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 170 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS -- -- TEMP. 77.8 °F. 69.9 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 67 % WIND 170 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.70	36.24	0.0	0.7	4.2	0.0
12	25.71	36.08				
28	25.08	36.13				
60	23.37	36.51				
85	22.27	36.83				
114	20.97	36.69				
163	18.83	36.58				
208	17.22	36.38				
296	13.82	35.82				
390	10.81	35.30				
480	9.05	35.07				
572	7.55	34.87				
753	5.93	34.83	1.8	13.3	0.0 ^a	0.0
*1500	---	---	1.6	22.8 ^b	0.5	0.0

(a) Green carbohydrates

(b) Indicates not in accurate range of curve- value probably somewhat higher

* Uncorrected depth.

STATION NO. 1-1A-37

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	25.70	36.24	24.08
10	25.70	36.18	24.04
20	25.60	36.09	24.00
30	25.00	36.16	24.24
50	24.30	36.41	24.64
75	22.60	36.79	25.43
100	21.55	36.76	25.70
150	19.40	36.61	26.17
200	17.58	36.42	26.48
250	15.80	36.12	26.67
300	13.59	35.82	26.92
400	10.60	35.27	27.08
500	8.81	35.00	27.17
600	7.22	34.86	27.30
700	6.30	34.83	27.40

STATION NO. 1-1A-38

DATE 7 5 1951 LAT. 26° 54' N. LONG. 88° 00' W.
Day Month Year
 TIME 1633 DEPTH 1400 MAX. SAMPLE DEPTH 1980 WIRE ANGLE 37 °
GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 0 ° T. 0 ft.
Code Code Code Direction Hgt.
0 sec. CLOUDS Cs 6 TEMP. 79.0 °F. 72.0 °F.
Period Type Amount Dry Wet
 BAR. 30.05 in. REL. HUM. 71 % WIND 025 ° T. 2 VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.07	34.78	0	25.07	34.78	23.18
12	25.05	36.18	10	25.06	36.18	24.23
28	23.55	36.51	20	23.90	36.49	24.82
60	21.30	36.53	30	23.10	36.51	25.07
88	20.06	36.47	50	21.90	36.53	25.43
120	18.26	36.47	75	20.89	36.50	25.68
180	14.99	36.06	100	19.35	36.46	26.06
239	12.86	35.68	150	16.40	36.31	26.68
352	9.81	35.14	200	14.20	35.90	26.86
471	7.80	34.90	250	12.60	35.62	26.97
582	6.51	34.70	300	11.20	35.36	27.04
701	5.65	34.74	400	9.00	35.03	27.16
934	4.68	34.76	500	7.50	34.83	27.23
1165	4.31	34.87	600	6.40	34.70	27.28
1398	4.20	34.83	700	5.65	34.74	27.41
1980	4.19	34.85	800	5.19	34.76	27.48
			1000	4.53	34.79	27.58
			1200	4.25	34.87	27.68
			1500	4.19	34.81	27.64
			2000	(4.15)	(34.85)	27.67

() Extrapolated values

STATION NO. 1-1A-39

DATE 8 5 1951 LAT. 28° 11' N. LONG. 88° 00' W.
 Day Month Year
 TIME 0310 DEPTH 1200 MAX. SAMPLE DEPTH 2117 WIRE ANGLE 20 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 025 ° T. 4 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS -- -- TEMP. 72.6 °F. 67.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.05 in. REL. HUM. 78% WIND 025 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	23.91	35.68	0	23.91	35.68	24.20
14	23.81	35.75	10	23.90	35.74	24.25
33	21.71	36.08	20	23.50	35.87	24.47
70	21.20	36.29	30	21.80	35.99	25.04
103	20.04	36.31	50	21.55	36.21	25.28
140	18.96	36.44	75	21.10	36.30	25.47
211	15.22	35.97	100	20.25	36.31	25.71
280	13.16	---	150	18.60	36.44	26.24
413	9.89	34.94	200	15.70	36.13	26.70
554	7.72	34.79	250	14.41	35.75	26.70
685	6.47	34.78	300	13.05	35.44	26.74
822	5.54	34.81	400	10.20	34.98	26.92
1090	4.60	34.85	500	8.40	34.83	27.10
1362	4.27	34.88	600	7.29	34.78	27.23
1637	4.19	34.88	700	6.40	34.78	27.35
2117	4.21	34.88	800	5.70	34.80	27.45
			1000	4.85	34.84	27.59
			1200	4.39	34.86	27.65
			1500	4.21	34.88	27.69
			2000	4.19	34.88	27.69

STATION NO. 1-1A-40

DATE 8 5 1951 LAT. 28° 13' N. LONG. 88° 52' W.
 Day Month Year
 TIME 1039 DEPTH 740 MAX. SAMPLE DEPTHS 960 WIRE ANGLE 18°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 070 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Sc 9 TEMP. 73.4 °F. 67.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 73 % WIND 070 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ _t
0	23.59	33.80	0	23.59	33.80	22.88
9	23.67	35.32	10	23.67	35.61	24.22
23	22.28	36.47	20	22.45	36.41	25.18
47	21.57	36.53	30	21.99	36.51	25.39
71	21.06	36.44	50	21.50	36.53	25.54
95	20.47	36.40	75	21.01	36.43	25.60
147	17.03	36.15	100	20.10	36.39	25.81
193	15.44	35.99	150	17.00	36.14	26.41
284	12.14	35.46	200	15.02	35.96	26.72
381	9.91	35.34	250	13.20	35.63	26.86
473	8.31	35.05	300	11.71	35.43	27.00
571	6.91	34.83	400	9.60	35.29	27.27
665	6.31	34.90	500	7.83	34.97	27.30
764	5.68	36.53	600	6.70	34.85	27.36
960	4.92	34.79	700	6.08	34.90	27.48
			800	5.41	34.87	27.54
			1000	(4.90)	(34.77)	27.53

() Extrapolated values.

STATION NO. 1-1A-41

DATE 8 5 1951 LAT. 28° 13' N. LONG. 89° 49' W.
 Day Month Year
 TIME 1718 DEPTH 390 MAX. SAMPLE DEPTH 594 WIRE ANGLE 8 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 3 SWELL 070 ° T. 6 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Sc 9 TEMP. 75.0 °F. 67.7 °F.
 Period Type Amount Dry Wet
 BAR. 30.07 in. REL. HUM. 70 % WIND 070 ° T. 5 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.02	36.44	0.0	0.9	0.0	1.3
10	24.03	36.42				
25	22.81	36.40				
49	21.17	36.38				
74	20.71	36.36				
98	19.66	36.24				
198	13.49	35.61				
297	10.49	35.10	1.4	21.6 ^b	1.4 ^a	0.5
396	8.77	34.83				
495	7.73	34.90				
594	7.12	34.69	1.7	23.7 ^b	5.8 ^a	0.0

(a) Green carbohydrates.

(b) Indicates not in accurate range of curve-value probably somewhat higher.

STATION NO. 1-1A-41

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Ot
0	24.02	36.44	24.75
10	24.03	36.42	24.73
20	23.20	36.40	24.96
30	22.10	36.39	25.26
50	21.17	36.38	25.52
75	20.60	36.36	25.66
100	19.50	36.24	25.86
150	16.25	35.97	26.45
200	13.41	35.61	26.80
250	11.75	35.29	26.88
300	10.45	35.10	26.97
400	8.70	34.82	27.04
500	7.68	34.75	27.15
600	(7.09)	(34.68)	27.18

() Extrapolated values.

STATION NO. 1-1A-42

DATE 9 5 1951 LAT. 28° 08' N. LONG. 91° 15' W.
 Day Month Year
 TIME 0253 DEPTH 51 MAX. SAMPLE DEPTH 70 WIRE ANGLE 20°
 GCT Faths. 60 Meters
 WATER COLOR -- WEATHER 07 SEA 4 SWELL 070 ° T. 10 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS -- -- TEMP. 72.0 °F. 70.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 91 % WIND 070 ° T. 6 VIS. 5
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.09	36.11	0.0	0.4	2.5	0.0
9	23.07	36.08				
23	20.95	36.20				
47	20.36	36.40	0.0	1.0	5.2	0.7
70	19.69	36.24	0.1	1.1	0.4	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	23.09	36.11	24.77
10	23.07	36.08	24.75
20	21.10	36.20	25.40
30	20.80	36.33	25.58
50	20.28	36.39	25.76
75	(19.60)	(36.25)	25.84

Extrapolated values.

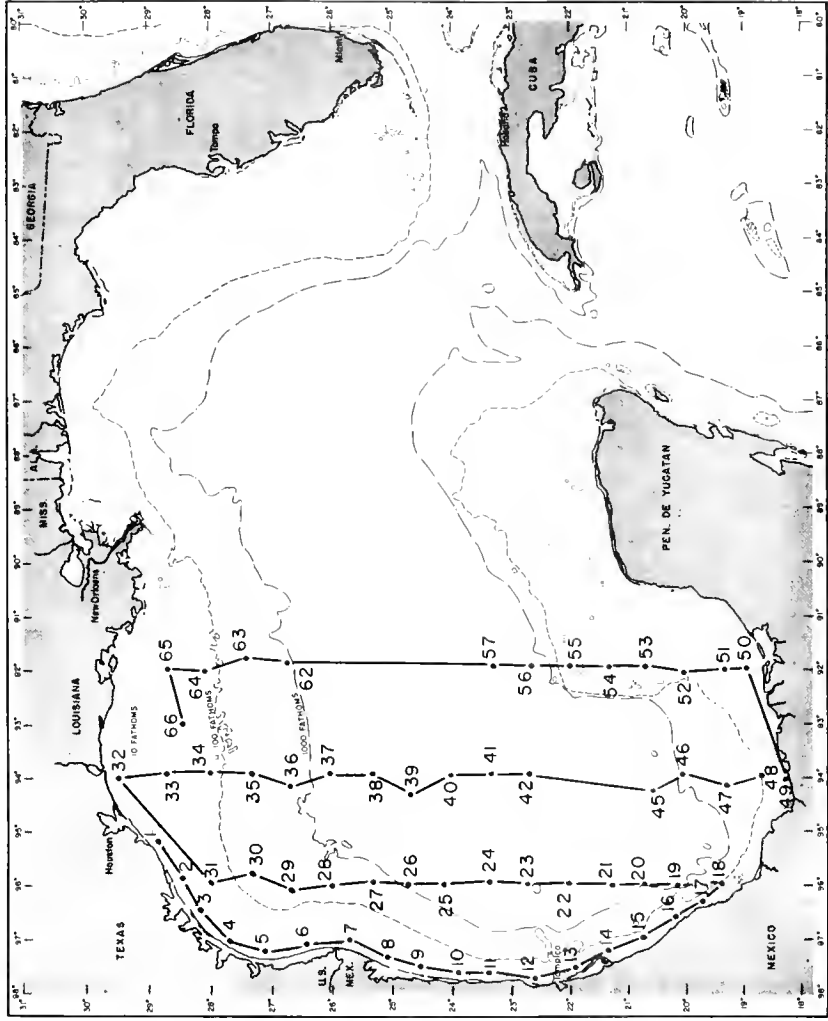


Figure 16.--Locations of stations occupied on Cruise 2-1B.

STATION NO. 2-1B-1

DATE 5 6 1951 LAT. 28° 51' N. LONG. 95° 11' W.
Day Month Year
 TIME 0427 DEPTH 10 MAX. SAMPLE DEPTH 13 WIRE ANGLE 0°
GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 2 SWELL 045 ° T. 3 ft.
Code Code Code Direction Hgt.
6 sec. CLOUDS -- -- TEMP. 77.6 °F. 73.5 °F.
Period Type Amount Dry Wet
 BAR. 30.03 in. REL. HUM. 83% WIND 045 ° T. 2 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.42	---	0.0	0.3	1.0	0.1
6	26.46	---	0.2	0.2	2.6	0.4
13	23.80	33.75	1.0	1.0	0.2	1.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	26.42	---	---
10	26.25	---	---

STATION NO. 2-1B-2

DATE 5 6 1951 LAT. 28° 28' N. LONG. 95° 49' W.
 Day Month Year
 TIME 1015 DEPTH 10 MAX. SAMPLE DEPTH 12 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL --- ° T. 4 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Cu 2 TEMP. 77.0 °F. 74.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 88 % WIND 030 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.37	---	0	26.37	---	---
6	26.37	---	10	26.25	---	---
12	26.15	---				

STATION NO. 2-1B-3

DATE 5 6 1951 LAT. 28° 09' N. LONG. 96° 27' W.
 Day Month Year
 TIME 1520 DEPTH 10 MAX. SAMPLE DEPTH 12 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 090 ° T. 4 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 2 TEMP. 81.3 °F. 74.3 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 72 % WIND 090 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES						
Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.09	32.48	0.2	0.3	0.8	0.6
6	26.07	32.52	0.0	0.0	3.0	0.6
12	25.95	32.47	0.4	0.0	1.9	0.6

STATION NO. 2-1B-3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	26.09	32.48	21.13
10	25.95	32.49	21.18

STATION NO. 2-1B-4

DATE 5 6 1951 LAT. 27° 40' N. LONG. 97° 00' W.
 Day Month Year
 TIME 2022 DEPTH 10 MAX. SAMPLE DEPTH 12 WIRE ANGLE 0°
 GCT Paths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 090 ° T. 4 ft.
 Code Code Code Direction
4 sec. CLOUDS Cu 1 TEMP. 83.9 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.03 in. REL. HUM. 73 % WIND 090 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.81	33.53	0	25.81	33.53	22.01
6	25.58	33.49	10	25.39	33.49	22.11
12	25.30	33.49				

STATION NO. 2-1B-5

DATE 6 6 1951 LAT. 27° 04' N. LONG. 97° 16' W.
 Day Month Year
 TIME 0130 DEPTH 11 MAX. SAMPLE DEPTH 12 WIRE ANGLE 3 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 090 ° T. 6 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Sc Ac 1, 1 TEMP. 79.6 °F. 75.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.97 in. REL. HUM. 83 % WIND 090 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.18	34.02	0.2	0.3	1.8	0.5
6	24.75	34.02	0.3	0.2	1.2	0.0
12	24.65	34.07	0.0	0.2	0.9	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	25.18	34.02	22.57
10	24.66	34.05	22.75

STATION NO. 2-1B-6

DATE 6 6 1951 LAT. 26° 25' N. LONG. 97° 05' W.
 Day Month Year
 TIME 0710 DEPTH 11 MAX. SAMPLE DEPTH 12 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 00 SEA 2 SWELL 090 ° T. 5 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 78.8 °F. 76.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 89 % WIND 090 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.35	35.97	0	25.35	35.97	23.99
6	25.34	35.95	10	23.62	35.93	24.48
12	23.61	35.91				

STATION NO. 2-1B-7

DATE 6 6 1951 LAT. 25° 45' N. LONG. 97° 00' W.
 Day Month Year
 TIME 1227 DEPTH 15 MAX. SAMPLE DEPTH 20 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 3 SWELL 100 ° T. 6 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Cu 1 TEMP. 79.1 °F. 76.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 89 % WIND 100 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.56	36.08	0.0	0.3	0.6 ^a	0.0
10	23.12	35.95	0.1	0.0	1.6	0.1
20	21.30	36.38	0.4	3.9	0.6	0.8

(a) Green carbohydrates.

STATION NO. 2-1B-7

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	24.56	36.08	24.31
10	23.12	35.95	24.64
20	21.30	36.38	25.48

STATION NO. 2-1B-8

DATE 6 6 1951 LAT. 25° 09' N. LONG. 97° 19' W.
 Day Month Year
 TIME 1814 DEPTH 9 MAX. SAMPLE DEPTH 12 WIRE ANGLE 3 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 3 SWELL 135 ° T. 7 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 81.6 °F. 77.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 84 % WIND 135 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.31	36.53	0	25.31	36.53	24.42
6	25.25	36.45	10	24.00	36.48	24.78
12	22.44	36.55				

STATION NO. 2-1B-9

DATE 6 6 1951 LAT. 24° 33' N. LONG. 97° 31' W.
 Day Month Year
 TIME 2336 DEPTH 14 MAX. SAMPLE DEPTH 18 WIRE ANGLE 2°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 3 SWELL 135 ° T. 6 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS C1 Sc 1 1 TEMP. 84.5 °F. 79.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.83 in. REL. HUM. 78 % WIND 135 ° T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.56	36.35	0.0	0.0	1.6	0.9
9	24.59	36.38	0.5	0.2	0.2	0.0
18	21.49	36.49	0.0	0.1	0.4	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	25.56	36.35	24.21
10	24.50	36.38	24.56
20	(21.20)	(36.60)	25.67

() Extrapolated values

STATION NO. 2-1B-10

DATE 7 6 1951 LAT. 23° 55' N. LONG. 97° 36' W.
 Day Month Year
 TIME 0517 DEPTH 10 MAX. SAMPLE DEPTH 12 WIRE ANGLE 3 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 00 SEA 2 SWELL 135 ° T. 4 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS -- --- TEMP. 79.2 °F. 76.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.86 in. REL. HUM. 87 % WIND 135 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.19	36.42	0	25.19	36.42	24.38
6	24.64	36.42	10	24.00	36.58	24.86
12	23.15	36.62				

STATION NO. 2-1B-11

DATE 7 6 1951 LAT. 23° 18' N. LONG. 97° 38' W.
 Day Month Year
 TIME 1144 DEPTH 17 MAX. SAMPLE DEPTH 32 WIRE ANGLE 6 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 02 SEA 2 SWELL 135 ° T. 5 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Cu 7 TEMP. 78.8 °F. 76.9 °F.
 Period Type Amount Dry Wet
 BAR. 29.82 in. REL. HUM. 91 % WIND 135 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES						
Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.21	36.33	0.4	0.0	1.9	0.2
16	23.97	36.42	0.2	0.4	1.4	0.8
32	21.78	36.49	0.9	2.4	1.2	0.1

STATION NO. 2-1B-11

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	25.21	36.33	24.30
10	24.60	36.39	24.53
20	23.59	36.45	24.88
30	22.10	36.48	25.33

STATION NO. 2-1B-12

DATE 7 6 1951 LAT. 22° 31' N. LONG. 97° 45' W.
 Day Month Year
 TIME 1905 DEPTH 12 MAX. SAMPLE DEPTH 14 WIRE ANGLE 1 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 130 ° T. 4 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Cu Sc 1 1 TEMP. 84.5 °F. 80.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.84 in. REL. HUM. 82 % WIND 130 ° T. 7 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	26.15	35.34	0	26.15	35.34	23.26
7	23.61	36.35	10	23.10	36.40	24.99
14	22.34	36.56				

STATION NO. 2-1B-13

DATE 8 6 1951 LAT. 21° 53' N. LONG. 97° 34' W.
 Day Month Year
 TIME 0032 DEPTH 10 MAX. SAMPLE DEPTH 12 WIRE ANGLE 6 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 090 ° T. 5 ft.
 Code Cu Code Code Direction Hgt.
4 sec. CLOUDS Ci, Sc 1, 2, 1 TEMP. 83.0 °F. 78.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.74 in. REL. HUM. 83 % WIND 090 ° T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.09	35.68	0.0	0.0	1.2	0.0
6	24.37	36.38	0.4	0.1	2.0	0.2
12	22.18	36.55	0.0	0.2	1.7	1.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	26.09	35.68	23.54
10	22.50	36.51	25.24

STATION NO. 2-1B-14

DATE 8 6 1951 LAT. 21° 18' N. LONG. 97° 14' W.
 Day Month Year
 TIME 0715 DEPTH 13 MAX. SAMPLE DEPTH 14 WIRE ANGLE 0°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 135 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 2 TEMP. 80.8 °F. 78.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.82 in. REL. HUM. 88 % WIND 135 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ _t
0	25.91	35.71	0	25.91	35.71	23.62
7	25.35	36.00	10	24.60	36.25	24.43
14	22.46	36.45				

STATION NO. 2-1B-15

DATE 8 6 1951 LAT. 20° 41' N. LONG. 96° 58' W.
 Day Month Year
 TIME 1316 DEPTH 20 MAX. SAMPLE DEPTH 30 WIRE ANGLE 0°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 02 SEA 2 SWELL 090 ° T. 5 ft.
 Code Ac Code Code Direction Hgt.
3 sec. CLOUDS Cu Ci 1,6,1 TEMP. 81.3 °F. 77.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.83 in. REL. HUM. 84 % WIND 090 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES						
Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.78	33.77	0.1	---	1.8	---
15	22.14	36.64	0.0	0.4	0.0	0.0
30	22.00	36.65	0.0	0.6	1.0	0.6

STATION NO. 2-1B-15

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	25.78	33.77	22.20
10	25.00	35.60	23.82
20	23.60	36.65	25.03
30	22.00	36.65	25.49

STATION NO. 2-1B-16

DATE 8 6 1951 LAT. 20° 08' N. LONG. 96° 35' W.
 Day Month Year
 TIME 1859 DEPTH 15 MAX. SAMPLE DEPTH 20 WIRE ANGLE 6 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 110 ° T. 6 ft.
 Code Ci Code Code Direction Hgt.
7 sec. CLOUDS Sc Cu 3.1.2 TEMP. 83.9 °F. 80.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.84 in. REL. HUM. 84 % WIND 110 ° r. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	25.64	36.47	0	25.64	36.47	24.28
10	22.53	36.67	10	22.53	36.67	25.35
20	21.48	36.56	20	21.48	36.56	25.57

STATION NO. 2-1B-17

DATE 8 6 1951 LAT. 19° 43' N. LONG. 96° 20' W.
 Day Month Year
 TIME 2341 DEPTH 30 MAX. SAMPLE DEPTH 49 WIRE ANGLE 8 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 090 ° Hgt. 5 ft.
 Code Code Code Direction
5 sec. CLOUDS Cu Ci 1,1 TEMP. 83.5 ° F. 79.6 ° F.
 Period Type Amount Dry Wet
 BAR. 29.78 in. REL. HUM. 84 % WIND 090 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.14	36.38	0.0	0.1	2.4	0.0
25	23.63	36.78	0.0	0.1	0.8	0.2
49	21.74	36.60	0.1	0.4	0.2	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.14	36.38	23.41
10	26.80	36.60	24.01
20	25.50	36.77	24.54
30	23.05	36.77	25.28
50	21.70	36.59	25.53

STATION NO. 2-1B-18

DATE 9 6 1951 LAT. 19° 21' N. LONG. 95° 58' W.
Day Month Year
 TIME 0436 DEPTH 65 MAX. SAMPLE DEPTH 74 WIRE ANGLE 8 °
GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 2 SWELL 090 ° T. 6 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS -- -- TEMP. 82.3 °F. 78.8 °F.
Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 86 % WIND 090 ° T. 4 VIS. 8
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	27.83	35.66	0	27.83	35.66	22.97
10	27.11	---	10	27.11	36.23	23.63
25	24.69	36.56	20	25.30	36.52	24.42
49	22.68	36.69	30	24.10	36.62	24.86
74	21.35	36.51	50	22.57	36.69	25.36
			75	21.30	36.51	25.58

STATION NO. 2-1B-19

DATE 9 6 1951 LAT. 20° 02' N. LONG. 96° 00' W.
 Day Month Year
 TIME 1257 DEPTH 950 MAX. SAMPLE DEPTH 1335 WIRE ANGLE 12°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 6 ft.
 Code Cu Code Code Direction Hgt.
6 sec. CLOUDS Gi Sc 2.4.1 TEMP. 83.0 °F. 79.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 84 % WIND 090 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.12	36.60	0.0	0.2	1.0	0.1
10	26.93	36.62				
29	24.12	36.82				
58	22.90	36.83				
87	21.91	36.74				
116	19.91	36.60				
175	16.63	36.33				
232	14.45	36.00				
348	10.86	35.50				
458	8.94	35.07				
572	7.30	35.05	1.6	78.2	0.4	0.3
682	6.19	34.97				
907	---	36.60				
1124	11.99	35.81				
1335	3.92	35.30	2.0	63.8	1.2	0.0

STATION NO. 2-1B-19

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.12	36.60	23.91
10	26.93	36.62	23.98
20	25.95	36.79	24.42
30	24.10	36.82	25.01
50	23.20	36.83	25.28
75	22.25	36.77	25.51
100	21.35	36.67	25.69
150	17.98	36.48	26.43
200	15.49	36.18	26.79
250	13.43	35.93	27.04
300	12.00	35.72	27.17
400	9.95	35.23	27.16
500	8.39	35.05	27.27
600	6.99	35.04	27.47
700	6.12	34.96	27.53

STATION NO. 2-1B-20

DATE 9 6 1951 LAT. 20° 40' N. LONG. 96° 01' W.
Day Month Year
 TIME 2000 DEPTH 1030 MAX. SAMPLE DEPTH 1379 WIRE ANGLE 8 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. - ft.
Code Code Code Direction Hgt.
 --- sec. CLOUDS Cec Ci 1.1 TEMP. 84.7 °F. 79.3 °F.
Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 78 % WIND 135 ° T. 3 VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	27.49	36.67	0	27.49	36.67	23.84
10	27.06	36.65	10	27.06	36.65	23.96
30	25.76	36.80	20	26.49	36.69	24.17
59	22.96	36.74	30	25.76	36.80	24.49
89	21.92	36.73	50	23.60	36.74	25.10
118	19.87	36.69	75	22.45	36.73	25.42
178	15.45	36.24	100	21.12	36.71	25.78
237	13.44	35.92	150	17.28	36.45	26.58
357	10.77	35.52	200	14.60	36.10	26.93
472	9.19	35.43	250	13.05	35.87	27.07
591	7.49	35.07	300	11.91	35.65	27.13
706	6.15	34.70	400	10.14	35.50	27.34
939	4.92	34.94	500	8.82	35.35	27.44
1164	4.35	34.99	600	7.35	35.06	27.44
1379	---	35.01	700	6.20	35.00	27.55
			800	5.53	34.96	27.60
			1000	4.73	34.95	27.69
			1200	(4.30)	35.00	27.78

() Extrapolated values.

STATION NO. 2-1B-21

DATE 10 6 1951 LAT. 21° 15' N. LONG. 96° 01' W.
 Day Month Year
 TIME 0430 DEPTH 114 OMAX. SAMPLE DEPTH 1164 WIRE ANGLE 12°
 GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 2 SWELL 090 ° T. - ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS -- -- TEMP. 81.5 °F. 78.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.92 in. REL. HUM. 88 % WIND 135 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.26	36.73	0.1	0.1	4.3	0.4
10	27.26	36.73				
30	27.04	36.78				
59	24.03	36.73				
89	21.65	36.67				
118	18.92	36.56				
178	15.70	36.15				
237	13.48	35.79				
356	10.71	35.37				
471	8.81	35.10				
590	7.09	34.97				
704	6.04	34.97	1.9	82.1	1.6 ^a	0.1
939	4.88	35.01				
1164	4.36	34.88	1.8	49.6	3.6	0.2

(a) Green carbohydrates.

STATION NO. 2-1B-21

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	27.26	36.73	23.96
10	27.26	36.73	23.96
20	27.20	36.77	24.01
30	27.04	36.78	24.07
50	26.20	36.75	24.31
75	22.88	36.70	25.28
100	20.10	36.63	26.00
150	16.95	36.34	26.57
200	14.95	36.00	26.77
250	13.18	35.74	26.95
300	11.98	35.55	27.04
400	10.00	35.26	27.17
500	8.47	35.04	27.26
600	7.02	34.97	27.41
700	6.11	34.97	27.54
800	5.48	34.99	27.63
1000	4.71	(35.01)	27.74

() Extrapolated values.

STATION NO. 2-1B-22

DATE 10 6 1951 LAT. 22° 00' N. LONG. 96° 00' W.
 Day Month Year
 TIME 1258 DEPTH 1400 MAX. SAMPLE DEPTH 1625 WIRE ANGLE 25°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 8 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS 01 1 TEMP. 81.5 °F. 77.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 84 % WIND 090 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	27.33	36.73	0	27.33	36.73	23.94
13	27.31	36.74	10	27.31	36.74	23.95
31	24.61	36.62	20	26.90	36.68	24.04
68	22.56	36.74	30	25.01	36.62	24.58
100	21.39	36.56	50	23.65	36.72	25.07
136	18.94	36.64	75	22.30	36.73	25.47
205	15.45	36.29	100	21.39	36.70	25.70
272	13.00	35.90	150	18.15	36.62	26.49
400	9.94	35.41	200	15.77	36.32	26.83
535	7.78	35.10	250	13.95	36.02	27.00
658	6.46	34.92	300	12.55	35.79	27.11
792	5.49	34.96	400	9.94	35.41	27.30
1057	5.90	34.92	500	8.35	35.18	27.38
1333	4.88	34.92	600	6.99	34.97	27.42
1625	4.31	34.97	700	6.13	34.94	27.51
			800	5.48	34.96	27.61
			1000	5.05	34.92	27.63
			1200	4.92	34.92	27.64
			1500	4.58	34.95	27.71

STATION NO. 2-1B-23

DATE 10 6 1951 LAT. 22° 42' N. LONG. 96° 00' W.
Day Month Year
 TIME 2155 DEPTH 1400 MAX. SAMPLE DEPTH 753 WIRE ANGLE 23°
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. - ft.
Code Code Code Direction Hgt.
 --- sec. CLOUDS Cu 6 TEMP. 82.6 °F. 79.2 °F.
Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 86 % WIND 090 ° T. 3 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.53	36.80	0.0	0.2	0.2	0.4
14	27.10	36.85				
32	23.91	36.80				
69	23.01	36.76				
101	22.30	36.78				
137	21.18	36.71				
202	17.27	36.35				
268	14.32	36.00				
388	10.80	35.35				
511	8.58	35.08				
627	7.09	34.92				
753	6.09	34.92	2.2	78.8	1.2	1.4

STATION NO. 2-1B-23

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.53	36.80	23.92
10	27.25	36.85	24.05
20	26.10	36.84	24.41
30	24.52	36.81	24.87
50	23.60	36.77	25.12
75	22.87	36.76	25.32
100	22.32	36.78	25.50
150	20.20	36.62	25.96
200	17.50	36.37	26.46
250	15.40	36.09	26.74
300	13.30	35.73	26.91
400	10.57	35.32	27.12
500	8.83	35.10	27.24
600	7.47	34.93	27.32
700	6.49	34.92	27.45
800	(5.90)	(34.92)	27.52

Extrapolated values.

STATION NO. 2-1B-24

DATE 11 6 1951 LAT. 23° 20' N. LONG. 95° 57' W.
 Day Month Year
 TIME 0508 DEPTH 1400 MAX. SAMPLE DEPTH 1718 WIRE ANGLE 12°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 00 SEA 2 SWELL 090 ° T. 4 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS -- --- TEMP. 82.3 °F. 79.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 88 % WIND 135 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	27.49	36.94	0	27.49	36.94	24.04
15	27.15	36.96	10	27.25	36.95	24.13
34	23.59	36.93	20	25.50	36.95	24.68
73	22.87	37.10	30	23.95	36.93	25.14
108	22.44	36.89	50	23.35	36.98	25.35
147	21.17	36.73	75	22.90	37.10	25.57
221	17.40	36.53	100	22.55	36.97	25.58
293	14.98	36.36	150	21.05	36.72	25.81
432	11.02	35.48	200	19.00	36.60	26.26
578	8.80	35.12	250	16.51	36.48	26.78
714	7.19	34.92	300	14.53	36.34	27.13
858	5.96	35.03	400	11.80	35.67	27.17
1139	4.68	34.74	500	9.96	35.28	27.20
1423	4.25	35.05	600	8.60	35.08	27.26
1718	4.20	35.01	700	7.37	34.93	27.33
			800	6.41	34.85	27.40
			1000	5.25	34.76	27.48
			1200	4.61	34.78	27.57
			1500	4.25	35.05	27.82

STATION NO. 2-1B-25

DATE 11 6 1951 LAT. 24° 03' N. LONG. 96° 01' W.
Day Month Year
 TIME 1252 DEPTH 1260 MAX. SAMPLE DEPTH 1638 WIRE ANGLE 22 °
GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 135 ° T. 6 ft.
Code Code Code Direction Hgt.
7 sec. CLOUDS Cu, Ci 3,1 TEMP. 81.3 °F. 77.2 °F.
Period Type Amount Dry Wet
 BAR. 29.81 in. REL. HUM. 84 % WIND 135 ° T. 3-4 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.34	36.78	0.0	0.2	1.4	0.0
14	27.10	36.82				
32	23.41	36.87				
68	22.76	36.83				
99	22.06	36.89				
136	20.74	36.55				
204	17.72	36.44				
268	16.16	36.35				
394	13.26	35.79				
530	10.36	35.43				
657	8.22	35.17				
795	6.81	35.25	1.7	69.2	3.3	0.0
1066	4.83	34.81				
1346	4.26	34.79				
1638	4.16	35.79	1.6	57.0	1.6	0.8

STATION NO. 2-1B-25

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.34	36.78	23.97
10	27.20	36.80	24.03
20	27.00	36.84	24.12
30	24.00	36.87	25.08
50	23.09	36.86	25.34
75	22.55	36.84	25.48
100	22.00	36.89	25.67
150	20.05	36.52	25.93
200	17.98	36.45	26.40
250	16.58	36.38	26.69
300	15.35	36.21	26.84
400	13.00	35.78	27.01
500	10.95	35.50	27.19
600	9.17	35.27	27.32
700	7.79	35.11	27.41
800	6.80	34.99	27.46
1000	5.33	34.83	27.52
1200	4.38	34.79	27.60

STATION NO. 2-1B-26

DATE 11 6 1951 LAT. 24° 45' N. LONG. 96° 00' W.
 Day Month Year 30°
 TIME 1950 DEPTH 1300 MAX. SAMPLE DEPTH 2530 WIRE ANGLE 27 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 3 SWELL 135 ° T. 10 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu Ci 1.1 TEMP. 83.0 °F. 78.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.82 in. REL. HUM. 80 % WIND 135 ° T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
Cast I						
0	27.57	36.53				
14	27.32	36.53				
31	26.04	36.73				
65	23.02	36.74				
95	21.10	36.67				
128	18.74	36.45				
188	15.36	36.13				
250	13.25	35.71				
369	10.03	35.25				
497	7.81	34.97				
619	6.46	35.01				
753	5.49	35.01				
1019	4.76	35.23				
1297	4.33	35.14				
1588	4.22	35.12				
Cast II						
1655	4.18	35.07	1.6	75.8	2.2	1.0
1845	4.20	35.07	1.6	24.6	1.5 ^a	0.2
2134	4.21	35.05	1.6	64.1	2.0 ^a	0.2
*2530	4.20	35.01	2.1	48.8	1.5	0.4

* Cloudy sample - centrifuged

(a) Green carbohydrates.

STATION NO. 2-1B-26

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.57	36.53	23.71
10	27.45	36.53	23.75
20	27.12	36.54	23.86
30	26.50	36.73	24.20
50	24.50	36.74	24.83
75	22.30	36.72	25.46
100	20.50	36.65	25.90
150	17.63	36.32	26.39
200	14.80	36.04	26.83
250	13.25	35.71	26.91
300	11.83	35.50	27.03
400	9.48	35.16	27.18
500	7.82	34.97	27.30
600	6.60	35.01	27.50
700	5.82	35.01	27.60
800	5.32	35.04	27.69
1000	4.81	35.22	27.89
1200	4.47	35.17	27.89
1500	4.21	35.13	27.89
2000	4.20	35.06	27.83
2500	4.20	35.01	27.79

STATION NO. 2-1B-27

DATE 12 6 1951 LAT. 25° 20' N. LONG. 96° 00' W.
 Day Month Year
 TIME 0425 DEPTH 550 MAX. SAMPLE DEPTH 916 WIRE ANGLE 8 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 135 ° T. - ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Cu 4 TEMP. 80.7 °F. 78.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.76 in. REL. HUM. 89 % WIND 135 ° T. 4-5 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	27.08	36.06	1.6	0.2	0.3	0.4
10	27.08	36.22				
25	25.12	36.45				
50	21.45	36.60				
75	20.84	36.87				
99	19.34	36.69				
154	15.73	36.22				
203	13.70	35.91				
303	10.40	35.26				
408	7.72	34.96				
508	6.67	34.96				
612	6.00	34.99				
711	5.48	34.96				
816	5.06	35.08	0.2	9.6	0.9	0.4
916	4.73	35.16	0.0	75.1	1.2	0.2

STATION NO. 2-1B-27

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	27.08	36.06	23.51
10	27.08	36.22	23.63
20	25.90	36.41	24.15
30	23.92	36.49	24.81
50	21.45	36.60	25.61
75	20.84	36.87	25.98
100	19.29	36.69	26.25
150	15.85	36.25	26.76
200	13.81	35.93	26.96
250	12.10	35.61	27.06
300	10.43	35.29	27.12
400	7.88	34.97	27.29
500	6.79	34.96	27.44
600	6.04	34.99	27.56
700	5.55	34.96	27.60
800	5.12	35.06	27.73
1000	(4.60)	(35.17)	27.88

() Extrapolated values.

STATION NO. 2-1B-28

DATE 12 6 1951 LAT. 26° 00' N. LONG. 96° 02' W.
 Day Month Year
 TIME 1040 DEPTH 490 MAX. SAMPLE DEPTH 687 WIRE ANGLE 32 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 3 SWELL 135 ° T. 12 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 5 TEMP. 81.7 °F. 79.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.77 in. REL. HUM. 89 % WIND 135 ° T. 5 VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ _t
0	27.22	36.26	0	27.22	36.26	23.62
9	27.23	36.33	10	27.23	36.34	23.67
21	26.64	36.44	20	26.80	36.44	23.89
43	24.01	36.64	30	26.28	36.52	24.11
64	21.99	36.76	50	23.30	36.70	25.15
85	20.94	36.74	75	21.35	36.75	25.75
130	18.27	36.65	100	19.99	36.71	26.09
169	16.36	36.42	150	17.43	36.55	26.62
207	14.74	36.27	200	15.15	36.29	26.95
244	13.47	35.79	250	13.21	35.75	26.95
324	11.16	35.52	300	11.72	35.57	27.10
405	9.57	35.41	400	9.62	35.42	27.36
494	8.13	35.16	500	8.10	35.15	27.40
585	7.14	35.01	600	7.00	35.00	27.44
687	6.29	34.94				

STATION NO. 2-1B-31

DATE 13 6 1951 LAT. 28° 00' N. LONG. 96° 00' W.
Day Month Year
 TIME 0425 DEPTH 25 MAX. SAMPLE DEPTH 40 WIRE ANGLE 5 °
GCT Faths. Meters
 WATER COLOR - WEATHER 03 SEA 2 SWELL 045 ° T. 7 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS - 10 TEMP. 79.6 °F. 75.4 °F.
Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 82 % WIND 045 ° T. 4-5 VIS. 7
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.15	36.44	0.1	0.4	0.6	0.0
20	25.32	33.21	0.0	0.2	0.8	0.8
40	21.51	32.28	0.5	0.0	2.8	0.8

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	27.15	32.38	20.72
10	26.50	32.92	21.33
20	25.32	33.21	21.92
30	23.50	34.42	23.37

STATION NO. 2-1B-32

DATE 18 6 1951 LAT. 29° 34' N. LONG. 94° 00' W.
Day Month Year
 TIME 0745 DEPTH 5 MAX. SAMPLE DEPTH 5 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 180 ° T. 4 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 4 TEMP. 82.6 ° F. 78.5 ° F.
Period Type Amount Dry Wet
 BAR. 29.87 in. REL. HUM. 84 % WIND 180 ° T. 2 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.55	32.00	0.4	1.4	1.6	0.5
5	27.80	32.00	0.6	0.6	0.0	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.55	32.00	20.31

STATION NO. 2-1B-33

DATE 19 6 1951 LAT. 28° 44' N. LONG. 93° 56' W.
 Day Month Year
 TIME 1519 DEPTH 15 MAX. SAMPLE DEPTH 20 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 180 ° T. 4 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 3 TEMP. 85.1 °F. 80.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 81 % WIND 180 ° T. - VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.17	---	0	28.17	---	---
10	27.77	31.92	10	27.77	31.92	20.18
20	27.26	32.27	20	27.26	32.27	20.61

STATION NO. 2-1B-34

DATE 19 6 1951 LAT. 28° 00' N. LONG. 94° 00' W.
 Day Month Year
 TIME 2105 DEPTH 44 MAX. SAMPLE DEPTH 75 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 180 ° T. 8 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Cu 2 TEMP. 80.5 °F. 76.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.89 in. REL. HUM. 83 % WIND 180 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES						
Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.81	31.36	0.0	0.4	0.9	0.3
10	27.77	33.86				
25	24.21	34.88	0.0	0.4	0.8	---
50	21.33	36.09				
75	19.89	36.24	0.1	3.6	1.0	0.2

STATION NO. 2-1B-34

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.81	31.36	19.42
10	27.77	33.86	21.63
20	25.50	34.65	22.95
30	24.00	35.12	23.75
50	21.33	36.09	25.25
75	19.89	36.24	25.75

STATION NO. 2-1B-35

DATE 20 6 1951 LAT. 27° 20' N. LONG. 94° 00' W.
 Day Month Year
 TIME 0350 DEPTH 450 MAX. SAMPLE DEPTH 71 WIRE ANGLE 17 °
 GCT Faths. Meters.
 WATER COLOR - WEATHER 01 SEA 2 SWELL 155 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Ac Cu 1,2 TEMP. 84.0 °F. 79.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.83 in. REL. HUM. 80 % WIND 180 ° T. - VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.32	35.93	0.0	0.5	2.1	0.0
9	27.93	36.44				
23	27.38	36.60				
47	23.38	36.61				
71	21.86	36.73	0.0	0.2	0.3	0.4

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	28.32	35.93	23.01
10	27.90	36.44	23.53
20	27.20	36.59	23.87
30	26.05	36.60	24.25
50	23.20	36.62	25.12
75	(21.70)	(36.75)	25.65

() Extrapolated values

STATION NO. 2-1B-36

DATE 20 6 1951 LAT. 26° 41' N. LONG. 94° 04' W.
 Day Month Year
 TIME 1135 DEPTH 670 MAX. SAMPLE DEPTH 1005 WIRE ANGLE 30°
 GCT Faths. Meters
 WATER COLOR - WEATHER 02 SEA 2 SWELL 150 ° T. 8 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu Ac 2,2 TEMP. 81.4 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.87 in. REL. HUM. 84 % WIND 180 ° T. - VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.73	36.27	0.0	0.6	0.6	0.3
8	27.75	36.26				
21	26.26	36.67				
42	23.66	36.76				
63	21.96	36.80				
82	21.50	36.67				
125	19.42	36.56				
163	16.98	36.36				
235	13.83	35.90				
312	11.41	35.50				
389	---	35.88				
471	8.91	35.08	1.8	90.0	2.9	0.0
637	6.39	34.96				
812	5.44	34.97				
1005	4.71	34.99	1.6	80.1	1.5	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.73	36.27	23.46
10	27.74	36.26	23.45
20	27.73	36.60	23.71
30	26.00	36.73	24.36
50	23.00	36.79	25.31
75	21.70	36.79	25.68
100	21.00	36.62	25.74
150	17.50	36.45	26.52
200	15.10	36.10	26.81
250	13.39	35.79	26.94
300	11.91	35.55	27.05
400	9.50	35.28	27.27
500	7.80	35.05	27.36
600	6.66	34.97	27.46
700	6.00	34.96	27.54
800	5.48	34.97	27.62
1000	4.78	34.99	27.71

STATION NO. 2-1B-37

DATE 20 6 1951 LAT. 26° 00' N. LONG. 94° 00' W.
 Day Month Year
 TIME 21 34 DEPTH 1680 MAX. SAMPLE DEPTH 1688 WIRE ANGLE 22 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 04 SEA 3 SWELL 135 ° T. 5 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS - - TEMP. 85.8 °F. 80.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 80 % WIND 135 ° T. - VIS. 7
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.26	36.44	0	28.26	36.44	23.41
14	27.94	36.44	10	28.10	36.44	23.47
32	24.23	36.80	20	27.00	36.45	23.83
69	21.69	36.76	30	24.30	36.80	24.93
101	20.58	36.76	50	22.00	36.78	25.59
138	17.70	36.53	75	21.30	36.76	25.77
207	13.66	35.91	100	20.71	36.76	25.93
276	11.94	35.61	150	16.40	36.35	26.71
407	9.12	35.01	200	13.88	35.95	26.96
547	7.40	35.19	250	12.60	35.72	27.05
679	6.28	35.08	300	11.50	35.54	27.12
821	5.41	35.12	400	9.30	35.38	27.39
1102	4.50	35.12	500	7.95	35.25	27.50
1392	4.25	35.17	600	6.83	35.14	27.57
1688	4.16	35.14	700	6.11	35.08	27.62
			800	5.57	35.11	27.71
			1000	4.77	35.12	27.82
			1200	4.35	35.14	27.88
			1500	4.22	35.17	27.92

STATION NO. 2-1B-38

DATE 21 6 1951 LAT. 25° 17' N. LONG. 93° 58' W.
 Day Month Year 12°
 TIME 0913 DEPTH 1910 MAX. SAMPLE DEPTH 2301 WIRE ANGLE 10 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 04 SEA 2 SWELL 135 ° T. 8 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS -- TEMP. 81.7 °F. 76.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 80 % WIND 135 ° T. - VIS. 6
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.09	36.98	0.0	0.4	1.2	0.4
15	28.09	36.96				
35	23.89	36.78				
74	22.80	36.83				
108	21.91	36.67				
147	20.31	36.76				
220	14.98	36.13				
292	12.83	35.77				
435	10.59	35.43				
587	8.81	35.16				
729	7.33	35.01				
880	5.48	35.03	1.7	60.2	1.4	0.2
1165	4.52	35.12				
1438	4.27	35.03				
1446	4.25	35.21				
1723	4.19	35.05	1.6	71.5	6.8	0.0
1725	4.20	35.05				
2012	---	35.01	1.6	65.4	0.0	0.0
2301	4.19	35.07	1.4	62.5	1.1	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.09	36.98	23.88
10	28.09	36.97	23.87
20	27.92	36.89	23.86
30	25.90	36.78	24.43
50	23.37	36.79	25.20
75	22.70	36.83	25.43
100	22.22	36.68	25.45
150	19.50	36.76	26.25
200	15.75	36.29	26.81
250	13.80	35.98	27.00
300	12.78	35.76	27.04
400	11.10	35.50	27.16
500	9.70	35.30	27.26
600	8.67	35.13	27.29
700	7.62	35.02	27.37
800	6.46	35.01	27.52
1000	4.89	35.09	27.78
1200	4.49	35.12	27.85
1500	4.23	35.10	27.86
2000	4.20	35.05	27.83

STATION NO. 2-1B-39

DATE 21 6 1951 LAT. 24° 40' N. LONG. 94° 06' W.
Day Month Year
 TIME 2359 DEPTH 1975 MAX. SAMPLE DEPTH 119 WIRE ANGLE 37 °
GCT Faths. Meters
 WATER COLOR - WEATHER 04 SEA 3 SWELL 135 ° T. 5 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS -- -- TEMP. 82.9 °F. 79.6 °F.
Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 88 % WIND 135 ° T. - VIS. 7
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.40	37.01	0	28.40	37.01	23.80
11	28.15	36.94	10	28.24	36.94	23.80
27	27.12	36.96	20	28.00	36.96	23.89
59	23.12	36.80	30	24.60	36.95	24.96
87	22.68	36.76	50	23.40	36.83	25.22
119	22.07	36.73	75	22.85	36.77	25.34
			100	22.41	36.75	25.45
			150	(21.30)	(36.70)	25.72

() Extrapolated values.

STATION NO. 2-1B-40

DATE 22 6 1951 LAT. 24° 01' N. LONG. 94° 00' W.
 Day Month Year
 TIME 0805 DEPTH 1960 MAX. SAMPLE DEPTH 1296 WIRE ANGLE 45°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 3 SWELL 135 ° T. 8 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 3 TEMP. 81.6 °F. 76.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.84 in. REL. HUM. 80 % WIND 135 ° T. - VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.18	36.87	0.0	0.4	2.4	0.4
9	28.23	36.80				
23	27.10	36.83				
49	23.48	36.76				
72	22.71	36.76				
98	21.40	36.71				
146	18.12	36.53				
191	15.74	36.29	0.8	54.2	0.0	0.0
263	---	36.38				
327	10.32	35.44				
387	12.68	35.79				
450	10.78	35.53				
573	7.99	35.08				
694	6.49	34.96				
821	5.42	34.97	1.9	75.6	0.7	0.2
1296	4.34	35.01	1.4	61.9	0.4	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.18	36.87	23.76
10	28.21	36.80	23.70
20	27.30	36.82	24.01
30	25.80	36.81	24.48
50	23.38	36.76	25.18
75	22.68	36.76	25.38
100	21.30	36.69	25.72
150	17.84	36.51	26.49
200	15.60	36.27	26.83
250	14.77	36.13	26.91
300	14.08	36.01	26.97
400	12.45	35.75	27.10
500	9.55	35.34	27.31
600	7.65	35.03	27.37
700	6.39	34.96	27.49
800	5.60	34.96	27.59
1000	4.79	35.00	27.72
1200	4.33	35.01	27.78

STATION NO. 2-1B-41

DATE 22 6 1951 LAT. 23° 22' N. LONG. 94° 00' W.
 Day Month Year
 TIME 1957 DEPTH 1990 MAX. SAMPLE DEPTH 2129 WIRE ANGLE 19 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 135 ° T. 4 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 85.8 °F. 78.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.86 in. REL. HUM. 72 % WIND 135 ° T. - VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
Cast I						
0	28.32	36.92	0.0	0.5	0.0	0.0
14	28.12	36.91	0.0	0.6	0.2	0.8
33	26.45	36.67	0.0	0.4	1.4	0.4
71	22.98	36.80	0.0	0.2	1.6	0.2
105	21.93	36.78				
144	20.05	36.67	0.2	6.6	1.8	0.4
217	15.66	36.26	1.0	67.8	2.2	0.4
Cast II						
71	23.11	36.82	0.0	0.1	0.0	0.4
209	15.94	36.26	0.9	40.3	1.2	0.0
353	11.60	35.57				
488	9.07	35.23	1.6	78.6	1.4	0.2
633	7.16	34.99	2.0	91.5	2.2 ^a	0.5
911	5.41	35.01	1.6	72.3	2.7	0.0
1190	4.48	35.07	1.7	62.9	0.0	0.0
1467	4.25	35.03	1.5	58.8	0.9	0.3
2129	4.22	35.07	1.4	50.5	0.8	2.8

(a) Green carbohydrates.

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	28.32	36.92	23.75
10	28.20	36.91	23.79
20	28.00	36.86	23.81
30	27.20	36.68	23.94
50	24.68	36.69	24.74
75	22.90	36.80	25.35
100	22.13	36.78	25.55
150	19.75	36.65	26.10
200	16.70	36.35	26.64
250	14.57	36.12	26.95
300	13.00	35.82	27.05
400	10.60	35.46	27.22
500	8.95	35.20	27.30
600	7.58	35.02	27.37
700	6.69	34.99	27.47
800	6.01	35.00	27.57
1000	5.00	35.03	27.72
1200	4.48	35.07	27.81
1500	4.28	35.07	27.83
2000	4.20	35.07	27.84

STATION NO. 2-1B-42

DATE 23 6 1951 LAT. 22° 40' N. LONG. 94° 00' W.
 Day Month Year
 TIME 0310 DEPTH 2000 MAX. SAMPLE DEPTH 1481 WIRE ANGLE 35 °
 GCT Faths. 07 Meters
 WATER COLOR - WEATHER 14 SEA 3-4 SWELL 180 ° T. 9 ft.
 Code Code Code Direction Hgt.
4-5 sec. CLOUDS -- -- TEMP. 82.0 °F. 77.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.81 in. REL. HUM. 82 % WIND 090 ° T. - VIS. 6
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	28.00	36.69	0.0	0.3	0.7	0.0
12	28.00	36.71				
28	27.23	36.83				
61	23.31	36.76				
90	22.88	36.76				
121	21.29	36.71				
178	18.14	36.58				
233	15.43	36.17	1.0	61.8	0.7	0.0
330	12.19	35.70				
420	10.15	35.39				
497	8.94	35.23				
578	7.46	35.01				
734	6.15	34.94	2.0	79.1	0.0	0.0
888	5.38	34.97				
1042	4.81	34.87				
1481	4.22	34.94	1.6	55.4	1.0	0.0

STATION NO. 2-1B-42

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	28.00	36.69	23.69
10	28.00	36.70	23.69
20	27.85	36.76	23.79
30	27.10	36.82	24.08
50	23.71	36.79	25.10
75	23.20	36.76	25.23
100	22.35	36.75	25.47
150	19.75	36.65	26.10
200	16.70	36.41	26.68
250	14.82	36.08	26.86
300	12.92	35.84	27.08
400	10.60	35.45	27.22
500	8.88	35.22	27.33
600	7.27	34.99	27.39
700	6.35	34.94	27.48
800	5.78	34.95	27.56
1000	4.93	34.89	27.62
1200	4.50	34.87	27.65
1500	(4.20)	(34.95)	27.75

() Extrapolated values.

STATION NO. 2-1B-45

DATE 24 6 1951 LAT. 20° 34' N. LONG. 94° 11' W.
 Day Month Year
 TIME 1805 DEPTH 1100 MAX. SAMPLE DEPTH 1613 WIRE ANGLE 25 °
 GCT Faths. 03 Meters
 WATER COLOR - WEATHER 60 SEA 2 SWELL 180 ° T. 6 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS - -- TEMP. 81.2 °F. 78.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.84 in. REL. HUM. 88 % WIND 180 T. - VIS. 6
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.47	36.62	0	28.47	36.62	23.48
13	28.47	36.64	10	28.47	36.63	23.49
31	25.09	36.62	20	28.38	36.64	23.52
67	21.63	36.62	30	26.00	36.62	24.28
99	---	36.55	50	23.08	36.62	25.16
135	16.44	36.31	75	20.50	36.61	25.87
202	13.58	35.91	100	18.75	36.55	26.29
268	11.68	35.68	150	15.80	36.24	26.76
393	9.23	35.17	200	13.80	35.93	26.97
525	7.47	35.03	250	12.50	35.75	27.09
650	6.35	34.94	300	11.31	35.56	27.17
785	5.56	34.99	400	9.19	35.16	27.23
1051	4.59	35.05	500	7.79	35.05	27.36
1325	4.27	35.10	600	6.74	34.96	27.44
1613	4.16	34.99	700	6.03	34.95	27.53
			800	5.45	34.99	27.63
			1000	4.73	35.04	27.76
			1200	4.38	35.03	27.79
			1500	4.21	34.99	27.78

STATION NO. 2-1B-46

DATE 24 6 1951 LAT. 20° 04' N. LONG. 93° 57' W.
Day Month Year
 TIME 0030 DEPTH 575 MAX. SAMPLE DEPTH 930 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 090 ° T. 6 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS Cu As 1.7 TEMP. 82.5 °F. 78.6 °F.
Period Type Amount Dry Wet
 BAR. 29.82 in. REL. HUM. 84 % WIND 090 ° T. - VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.65	36.53	0.0	0.6	0.4	0.0
10	28.56	36.56				
25	25.74	36.76				
50	22.41	36.62				
75	20.29	36.62				
100	18.64	36.51	0.5	9.0	0.0	0.4
155	15.46	36.06				
206	13.48	35.82				
307	10.51	35.34	1.7	58.0	0.7	0.3
413	8.57	35.07				
514	7.45	34.97				
621	6.72	34.97				
724	6.26	34.96				
830	5.44	34.96				
930	5.10	35.01	1.8	51.3	2.4	0.3

STATION NO. 2-1B-46

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.65	36.53	23.35
10	28.56	36.56	23.40
20	26.90	36.73	24.07
30	25.10	36.74	24.65
50	22.41	36.70	25.41
75	20.29	36.62	25.94
100	18.64	36.51	26.28
150	15.78	36.10	26.66
200	13.78	35.85	26.91
250	12.21	35.60	27.03
300	10.75	35.37	27.13
400	8.69	35.10	27.27
500	7.59	34.98	27.34
600	6.90	34.97	27.43
700	6.39	34.96	27.49
800	5.58	34.96	27.60
1000	(5.02)	(35.01)	27.70

) Extrapolated values.

STATION NO. 2-1B-47

DATE 25 6 1951 LAT. 19° 17' N. LONG. 94° 03' W.
 Day Month Year
 TIME 0830 DEPTH 480 MAX. SAMPLE DEPTH 673 WIRE ANGLE 20°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 090 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 7 TEMP. 80.5 °F. 79.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.81 in. REL. HUM. 94 % WIND 090 ° T. - VIS. 7
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.43	36.69	0	28.43	36.69	23.54
9	28.43	36.71	10	28.43	36.71	23.56
23	25.27	36.74	20	26.05	36.74	24.35
47	22.77	36.74	30	24.75	36.74	24.75
70	21.18	36.65	50	22.60	36.73	25.38
93	19.62	36.58	75	20.79	36.63	25.81
144	16.18	36.27	100	19.09	36.55	26.20
191	14.52	35.99	150	16.00	36.24	26.72
236	12.90	35.71	200	14.12	35.95	26.91
282	11.56	35.64	250	12.42	35.68	27.05
332	10.61	35.44	300	11.22	35.58	27.21
379	9.61	35.25	400	9.29	35.19	27.24
473	8.32	35.03	500	8.08	35.03	27.31
575	7.26	35.12	600	7.03	35.11	27.52
673	6.51	34.97				

STATION NO. 2-1B-48

DATE 25 6 1951 LAT. 18° 40' N. LONG. 94° 00' W.
 Day Month Year
 TIME 1410 DEPTH 95 MAX. SAMPLE DEPTH 153 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 135 ° T. 6 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Ac Cu 3,1 TEMP. 81.0 °F. 77.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.84 in. REL. HUM. 86 % WIND 135 ° T. - VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.08	36.62	0.0	0.2	0.0	0.7
10	28.00	36.60				
25	23.60	36.60				
50	21.79	36.56				
75	20.04	36.62	0.3	5.7	0.9	0.5
99	18.69	36.47				
153	16.64	36.31	0.8	45.4	6.6	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	28.08	36.62	23.61
10	28.00	36.60	23.62
20	24.70	36.60	24.66
30	23.40	36.60	25.05
50	21.79	36.56	25.48
75	20.04	36.62	26.00
100	18.68	36.47	26.24
150	16.75	36.32	26.60

STATION NO. 2-1B-49

DATE 25 6 1951 LAT. 18° 18' N. LONG. 94° 00' W.
Day Month Year
 TIME 1823 DEPTH 8.5 MAX. SAMPLE DEPTH 17 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 045 ° T. 2 ft.
Code Code Code Direction Hgt.
6 sec. CLOUDS Ac 1 TEMP. 87.8 °F. 79.8 °F.
Period Type Amount Dry Wet
 BAR. 29.83 in. REL. HUM. 70 % WIND 090 ° T. - VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.12	36.60	0.0	---	0.3	1.6
17	---	36.73	0.0	0.2	1.6	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.12	36.60	23.58
10	26.70	36.67	24.09

STATION NO. 2-1B-50

DATE 26 6 1951 LAT. 18° 55' N. LONG. 91° 57' W.
Day Month Year
 TIME 1443 DEPTH 9.5 MAX. SAMPLE DEPTH 10 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 6 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 81.5 °F. 77.4 °F.
Period Type Amount Dry Wet
 BAR. 29.80 in. REL. HUM. 84 % WIND 120 ° T. - VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.32	36.87	0.0	0.4	0.6	0.7
10	27.28	36.91	0.2	0.0	5.9	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	27.32	36.87	24.04
10	27.28	36.91	24.09

STATION NO. 2-1B-51

DATE 26 6 1951 LAT. 19° 20' N. LONG. 92° 00' W.
Day Month Year
 TIME 1845 DEPTH 19 MAX. SAMPLE DEPTH 30 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 3 ft.
Code Code Code Direction Hgt.
3 sec. CLOUDS Cl 1 TEMP. 82.8 °F. 77.8 °F.
Period Type Amount Dry Wet
 BAR. 29.81 in. REL. HUM. 80% WIND 120 ° T. - VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.17	36.74	0	28.17	36.74	23.67
15	28.01	36.71	10	28.10	36.72	23.68
30	26.24	36.78	20	27.80	36.72	23.77
			30	26.24	36.78	24.32

STATION NO. 2-1B-52

DATE 27 6 1951 LAT. 20° 00' N. LONG. 92° 00' W.
Day Month Year
 TIME 0015 DEPTH 38 MAX. SAMPLE DEPTH 65 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 045 ° T. 6 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 83.0 °F. 77.1 °F.
Period Type Amount Dry Wet
 BAR. 29.75 in. REL. HUM. 76 % WIND 045 ° T. - VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.03	36.76	0.0	0.2	0.0	0.0
10	27.92	36.74				
25	27.80	36.74	0.0	0.1	3.3	0.6
40	24.66	36.73				
65	19.46	36.53	0.6	9.1	1.0	0.9

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	28.03	36.76	23.73
10	27.92	36.74	23.75
20	27.90	36.74	23.76
30	27.63	36.73	23.84
50	22.38	36.64	25.37

STATION NO. 2-1B-53

DATE 27 6 1951 LAT. 20° 40' N. LONG. 91° 57' W.
Day Month Year
 TIME 1725 DEPTH 15 MAX. SAMPLE DEPTH 24 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 4 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 9 TEMP. 83.0 °F. 79.0 °F.
Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 84% WIND 090 ° T. - VIS. 9
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ _t
0	27.78	36.87	0	27.78	36.87	23.89
12	27.68	36.76	10	27.69	36.77	23.85
24	27.67	36.74	20	27.68	36.74	23.83

STATION NO. 2-1B-54

DATE 28 6 1951 LAT. 21° 20' N. LONG. 91° 58' W.
 Day Month Year
 TIME 0002 DEPTH 29 MAX. SAMPLE DEPTH 45 WIRE ANGLE 0°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 090 ° T. 6 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 3 TEMP. 81.5 °F. 78.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.81 in. REL. HUM. 86 % WIND 090 ° T. - VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.73	36.76	0.1	0.4	0.0	0.0
10	27.37	36.78				
25	27.18	36.80	0.0	0.3	0.7	---
45	25.09	36.67	0.0	0.0	1.0	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	27.73	36.76	23.83
10	27.37	36.78	23.96
20	27.23	36.79	24.01
30	27.00	36.78	24.08

STATION NO. 2-1B-55

DATE 28 6 1951 LAT. 22° 00' N. LONG. 91° 58' W.
 Day Month Year
 TIME 0445 DEPTH 38 MAX. SAMPLE DEPTH 69 WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 090 ° T. 4 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 3 TEMP. 80.8 °F. 77.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.86 in. REL. HUM. 87 % WIND 060 ° T. - VIS. 8
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	27.28	36.67	0	27.28	36.67	23.91
10	27.27	36.71	10	27.27	36.71	23.94
25	27.23	36.67	20	27.27	36.69	23.92
49	23.34	36.71	30	27.15	36.67	23.95
69	20.63	36.71	50	23.33	36.71	25.15

STATION NO. 2-1B-56

DATE 28 6 1951 LAT. 22° 40' N. LONG. 92° 00' W.
 Day Month Year
 TIME 1050 DEPTH 1950 MAX. SAMPLE DEPTH 1643 WIRE ANGLE 35 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 8 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 6 TEMP. 80.4 °F. 77.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 87 % WIND 090 ° T. - VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.63	36.69	0.0	0.4	2.5	1.1
12	27.67	36.67				
28	27.66	36.73				
61	23.29	36.78				
88	22.52	36.78				
119	21.00	36.73				
174	17.89	36.69				
224	15.96	36.36				
316	12.30	35.77				
416	9.69	35.34				
510	8.20	35.14				
610	7.13	34.99				
804	5.57	35.01	2.0	67.8	2.4	0.4
1000	4.92	35.05				
1195	4.44	35.01				
1643	4.20	35.05	1.5	53.3	0.5	0.0

STATION NO. 2-1B-56

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.63	36.69	23.81
10	27.66	36.68	23.79
20	27.67	36.69	23.79
30	27.58	36.73	23.85
50	24.20	36.77	24.94
75	22.70	36.78	25.39
100	21.75	36.77	25.65
150	19.20	36.66	26.26
200	17.00	36.46	26.65
250	14.75	36.15	26.93
300	12.75	35.85	27.12
400	10.03	35.39	27.27
500	8.40	35.16	27.36
600	7.24	35.00	27.41
700	6.38	34.99	27.52
800	5.60	35.01	27.63
1000	4.92	35.05	27.75
1200	4.41	35.01	27.77
1500	4.22	35.04	27.82

STATION NO. 2-1B-57

DATE 28 6 1951 LAT. 23° 19' N. LONG. 92° 00' W.
 Day Month Year
 TIME 1925 DEPTH 1990 MAX. SAMPLE DEPTH 195 WIRE ANGLE 30 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 090 ° T. 5 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 7 TEMP. 84.7 °F. 79.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 79 % WIND 120 ° T. - VIS. 9
 Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	27.79	36.55	0	27.79	36.55	23.65
13	27.78	36.74	10	27.76	36.71	23.78
30	27.76	36.78	20	27.80	36.76	23.80
65	---	37.00	30	27.76	36.78	23.83
95	22.42	36.83	50	26.95	36.91	24.19
130	20.95	36.73	75	24.48	36.97	25.01
195	17.16	36.65	100	22.20	36.82	25.56
			150	19.69	36.71	26.17
			200	(17.00)	(36.64)	26.79

() Extrapolated values.

STATION NO. 2-1B-62

DATE 29 6 1951 LAT. 26° 46' N. LONG. 91° 55' W.
 Day Month Year
 TIME 1843 DEPTH 950 MAX. SAMPLE DEPTH 547 WIRE ANGLE 52°
 GCT Faths. 04,60 Meters
 WATER COLOR - WEATHER 14 SEA 4 SWELL 180 ° T. 8 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cb,Cu 4.6 TEMP. 84.5 °F. 79.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 78 % WIND 180 ° T. - VIS. 6
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	27.91	36.58	0.0	0.6	2.3	0.1
6	27.94	36.47				
16	27.93	36.49				
32	26.67	36.56				
48	25.87	36.56				
66	24.15	36.58				
97	22.33	36.73				
127	---	36.73				
179	---	36.67				
208	---	36.49				
259	---	36.15				
300	13.39	35.91	1.2	45.5	0.2	0.0
383	10.90	35.48				
461	9.36	35.26				
547	7.51	35.05	1.9	81.6	2.2	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	27.91	36.58	23.63
10	27.95	36.48	23.55
20	27.85	36.50	23.59
30	27.00	36.55	23.91
50	25.55	36.56	24.37
75	23.70	36.62	24.98
100	22.10	36.73	25.52
150	19.95	36.71	26.10
200	17.35	36.58	26.66
250	15.25	36.19	26.85
300	13.39	35.91	27.04
400	10.60	35.45	27.22
500	8.50	35.18	27.36

STATION NO. 2-1B-63

DATE 30 6 1951 LAT. 27° 20' N. LONG. 91° 52' W.
 Day Month Year
 TIME 0046 DEPTH 600 MAX. SAMPLE DEPTH 923 WIRE ANGLE 12°
 GCT Faths. Meters
 WATER COLOR - WEATHER 03 SEA 2 SWELL 180 ° T. 8 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS -- -- TEMP. 83.6 °F. 76.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 72 % WIND 180 ° T. - VIS. 6
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.91	36.89	0.0	0.6	0.2	0.4
10	28.00	37.01				
24	27.99	37.03				
49	24.49	36.58				
73	22.27	36.89				
98	21.96	36.73				
153	18.06	36.56				
203	15.56	36.31				
303	12.35	35.61				
408	9.78	35.32	1.8	63.8	1.0	0.0
508	8.07	35.19				
614	7.01	35.01				
715	6.34	35.08				
822	5.20	35.05				
923	4.82	35.16	---	69.0	---	0.0

STATION NO. 2-1B-63

VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	σ_t
0	27.91	36.89	23.87
10	28.00	37.01	23.93
20	27.99	37.02	23.94
30	27.83	37.02	23.99
50	24.20	36.99	25.11
75	22.24	36.91	25.62
100	21.70	36.72	25.63
150	18.16	36.58	26.46
200	15.77	36.36	26.86
250	14.23	35.96	26.90
300	12.55	35.62	26.98
400	9.95	35.33	27.24
500	8.17	35.20	27.43
600	7.15	35.03	27.44
700	6.45	35.07	27.57
800	5.45	35.05	27.68
1000	(4.72)	(35.19)	27.88

() Extrapolated values.

STATION NO. 2-1B-64

DATE 30 6 1951 LAT. 28° 00' N. LONG. 92° 00' W.
 Day Month Year
 TIME 0615 DEPTH 50 MAX. SAMPLE DEPTH 75 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 180 ° T. 8 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS -- -- TEMP. 82.4 °F. 78.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 84 % WIND 180 ° T. - VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.97	36.18	0.0	0.0	0.4	0.4
10	28.13	36.45				
25	28.10	36.78	0.0	0.3	1.2	0.3
50	24.45	36.64				
75	20.31	36.51	0.2	2.9	0.4	0.6

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	27.97	36.18	23.31
10	28.13	36.45	23.46
20	28.12	36.74	23.68
30	28.00	36.72	23.71
50	24.45	36.64	24.77
75	20.31	36.51	25.85

STATION NO. 2-1B-65

DATE 30 6 1951 LAT. 28° 40' N. LONG. 91° 58' W.
Day Month Year
 TIME 1100 DEPTH 21 MAX. SAMPLE DEPTH 30 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 180 ° T. 3 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 9 TEMP. 82.0 °F. 78.5 °F.
Period Type Amount Dry Wet
 BAR. 29.87 in. REL. HUM. 86 % WIND 180 ° T. - VIS. 8
Direction Force Code

OBSERVED VALUES			VALUES AT STANDARD DEPTHS			
Depth	Temp. °C	Sal. ‰	Depth	Temp. °C	Sal. ‰	σ_t
0	28.32	31.60	0	28.32	31.60	19.76
15	28.29	32.30	10	28.30	32.02	20.08
30	21.94	36.27	20	27.90	32.75	20.76
			30	21.94	36.27	25.22

STATION NO. 2-1B-66

DATE 30 6 1951 LAT. 28° 52' N. LONG. 93° 00' W.
 Day Month Year
 TIME 1754 DEPTH 12 MAX. SAMPLE DEPTH 15 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 180 ° T. 6 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 5 TEMP. 87.0 °F. 81.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 77 % WIND 180 ° T. - VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	28.60	31.40	0.1	0.0	2.2	0.2
15	28.53	31.46	0.0	0.4	0.7	---

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	28.60	31.40	19.52
10	28.55	31.44	19.57

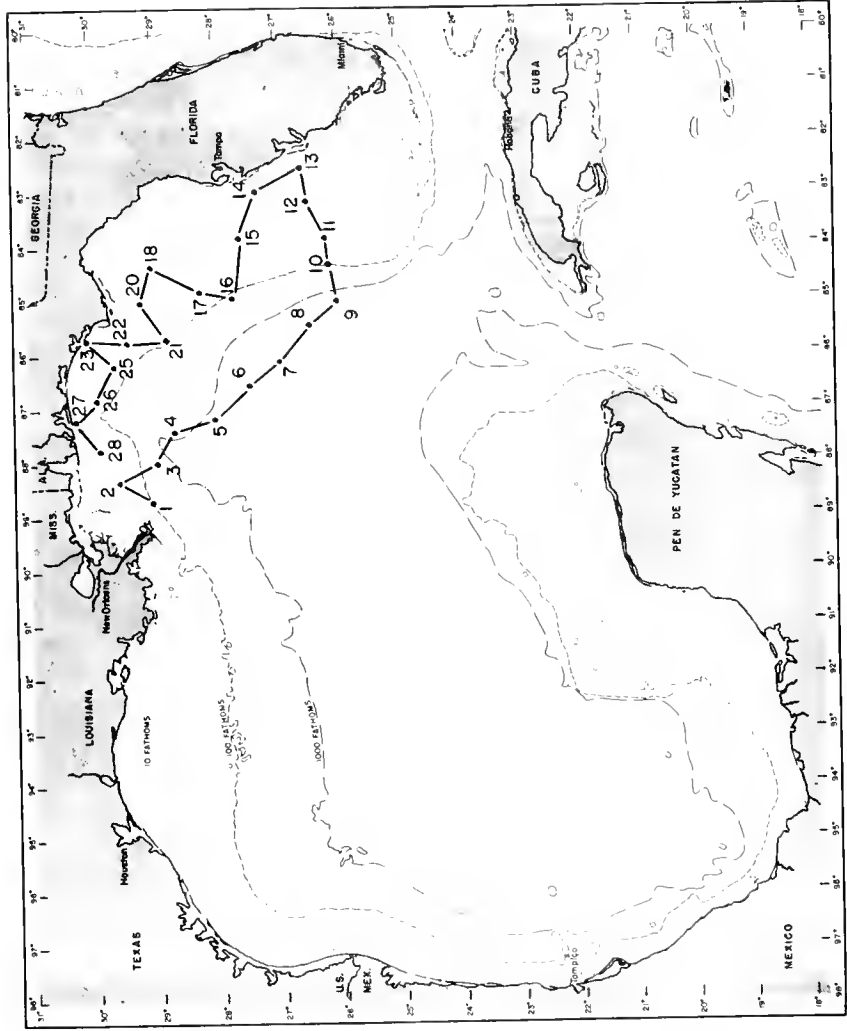


Figure 17.--Locations of stations occupied on Cruise 3-1C.

STATION NO. 3-1C-1

DATE 10 8 1951 LAT. 28° 53' N. LONG. 89° 00' W.
 Day Month Year
 TIME 0845 DEPTH 98 MAX. SAMPLE DEPTH 163 WIRE ANGLE 3 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 00 SEA 1 SWELL 090 ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS -- -- TEMP. 88.8 °F. 84.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 85 % WIND 090 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.1	25.44	---	11.2	0.7	0.0
20	25.82	35.57				
54	23.53	36.24				
89	15.42	36.15	0.5	14.5	0.0	0.1
163	21.34	36.38	0.5	17.5	0.4	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	30.10	25.44	14.58
10	27.71	34.15	21.87
20	25.82	35.57	23.54
30	25.15	35.78	23.91
50	23.92	36.21	24.60
75	19.30	36.18	25.86

STATION NO. 3-1C-2

DATE 10 8 1951 LAT. 29° 33' N. LONG. 88° 23' W.
 Day Month Year
 TIME 1535 DEPTH 20 MAX. SAMPLE DEPTH 30 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 0 WEATHER 01 SEA 2 SWELL 315 ° T. 3 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Cu 1 TEMP. 86.1 °F. 80.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.04 in. REL. HUM. 77 % WIND 315 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.85	33.22	0.0	0.0	0.2	0.0
10	19.22	36.33	0.4	6.6	0.3	0.0
20	16.98	36.47	0.7	10.0	0.1	0.0
30	16.78	36.31	0.7	8.7	2.2	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	28.85	33.22	20.80
10	19.22	36.33	26.00
20	16.98	36.47	26.66
30	16.78	36.31	26.56

STATION NO. 3-1C-3

DATE 12 8 1951 LAT. 29° 00' N. LONG. 88° 01' W.
 Day Month Year
 TIME 0321 DEPTH 750 MAX. SAMPLE DEPTH 1262 WIRE ANGLE 23 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 0 SWELL 265 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Ac 1 TEMP. 88.4 °F. 79.9 °F.
 Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 69 % WIND 265 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	31.30	26.22	---	0.1	0.8	0.0
9	29.60	35.23				
23	29.00	36.60				
50	23.61	36.58				
73	21.46	36.55				
101	19.95	36.49				
153	16.94	36.38				
205	14.69	36.00	0.7	13.8	0.2	0.2
310	11.36	35.44				
421	9.02	35.07				
528	7.58	34.96	1.9	24.2	0.2	0.0
625	6.54	34.88				
846	5.33	34.90				
1058	4.59	34.94				
1262	4.36	34.94	1.6	22.1	0.0	0.0

STATION NO. 3-1C-3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	31.30	26.22	14.75
10	29.59	35.23	22.06
20	29.00	35.85	22.72
30	27.40	36.59	23.81
50	23.61	36.58	24.97
75	21.38	36.55	25.59
100	20.01	36.49	25.91
150	17.07	36.38	26.57
200	14.85	36.04	26.82
250	13.15	35.69	26.91
300	11.64	35.47	27.04
400	9.46	35.13	27.16
500	7.96	34.98	27.28
600	6.80	34.90	27.39
700	6.12	34.88	27.46
800	5.53	34.89	27.55
1000	4.71	34.93	27.67
1200	4.37	34.94	27.72

STATION NO. 3-1C-4

DATE 12 8 1951 LAT. 28° 41' N. LONG. 87° 30' W.
 Day Month Year
 TIME 1246 DEPTH 920 MAX. SAMPLE DEPTH 1388 WIRE ANGLE 32°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 0 SWELL 330 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 4 TEMP. 85.9 °F. 81.8 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 84 % WIND 000 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	29.81	35.23	0.0	0.0	0.1	0.0
12	28.85	35.93				
29	27.62	36.08				
63	23.77	36.27				
93	20.87	36.51				
126	19.96	36.78				
188	16.16	36.18				
247	13.84	35.79				
362	10.86	35.30				
488	8.74	35.03				
608	7.32	34.94				
761	6.22	34.92				
917	5.26	34.99				
1099	4.70	35.03				
1388	4.30	35.08	0.9	19.0	1.4	0.0

STATION NO. 3-1C-4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	29.81	35.23	21.98
10	29.05	35.73	22.62
20	28.38	36.00	23.04
30	27.60	36.08	23.36
50	25.22	36.20	24.20
75	22.50	36.40	25.16
100	20.64	36.56	25.80
150	18.35	36.50	26.35
200	15.65	36.07	26.67
250	13.74	35.75	26.84
300	12.30	35.49	26.93
400	10.08	35.20	27.11
500	8.53	35.02	27.23
600	7.39	34.94	27.34
700	6.61	34.92	27.43
800	5.96	34.93	27.52
1000	4.92	35.01	27.71
1200	4.50	35.05	27.79

STATION NO. 3-1C-5

DATE 12 8 1951 LAT. 28° 00' N. LONG. 87° 12' W.
 Day Month Year
 TIME 2127 DEPTH 1480 MAX. SAMPLE DEPTH 2488 WIRE ANGLE 17°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL --- ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS C1 1 TEMP. 87.0 °F. 80.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.04 in. REL. HUM. 76% WIND 090 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	31.54	26.74	0.0	0.1	0.8	0.0
14	28.89	35.59				
33	27.26	36.08				
71	22.83	36.29				
105	21.50	36.38				
143	20.21	36.64				
214	16.16	36.29	0.4	7.6	0.8	0.3
285	13.36	35.73				
419	10.14	35.21				
563	7.75	34.94				
698	6.21	34.83				
843	5.49	35.75				
1125	4.64	34.92	1.9	25.4	0.0	0.0
1412	4.28	34.97				
1703	4.22	34.96				
2488	4.18	---	3.5	21.8	4.0	0.0

STATION NO. 3-1C-5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	31.54	26.74	15.05
10	29.80	34.49	21.43
20	28.40	35.71	22.82
30	27.52	35.95	23.29
50	25.43	36.16	24.11
75	22.62	36.29	25.04
100	21.58	36.37	25.39
150	19.63	36.63	26.12
200	16.68	36.38	26.67
250	14.60	36.04	26.88
300	12.98	35.68	26.94
400	10.52	35.29	27.11
500	8.73	35.05	27.22
600	7.26	34.90	27.32
700	6.20	34.84	27.42
800	5.62	34.84	27.50
1000	4.98	34.88	27.60
1200	4.53	34.94	27.70
1500	4.24	34.97	27.76

STATION NO. 3-1C-6

DATE 13 8 1951 LAT. 27° 27' N. LONG. 86° 33' W.
 Day Month Year
 TIME 0947 DEPTH 1650 MAX. SAMPLE DEPTH 3028 WIRE ANGLE 3 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 090 ° T. 1 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS - -- TEMP. 85.8 °F. 79.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 75 % WIND 090 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.02	35.88	0.6	0.6	0.2	0.2
15	29.07	35.99				
35	27.04	36.11				
75	22.14	36.56				
110	19.94	36.58				
150	17.26	36.38				
225	14.00	35.88				
302	11.79	35.46				
451	9.11	35.08				
611	7.03	34.90				
761	5.58	34.88				
921	4.99	34.96				
1338	4.26	35.01	1.1	21.8	0.0	0.6
1762	4.19	35.05				
2201	4.20	35.03				
3028	4.25	35.03	1.5	21.8	0.0	0.8

STATION NO. 3-1C-6

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	30.02	35.88	22.40
10	29.12	35.95	22.76
20	28.25	36.02	23.10
30	27.42	36.08	23.42
50	25.35	36.26	24.21
75	22.14	36.56	25.38
100	20.43	36.57	25.86
150	17.26	36.38	26.53
200	14.99	36.03	26.79
250	13.17	35.72	26.93
300	11.83	35.48	27.01
400	10.02	35.19	27.12
500	8.40	35.01	27.24
600	7.20	34.91	27.34
700	6.12	34.89	27.47
800	5.37	34.90	27.57
1000	4.81	34.97	27.69
1200	4.46	35.00	27.76
1500	4.19	35.03	27.81
2000	4.19	35.04	27.82

STATION NO. 3-1C-7

DATE 13 8 1951 LAT. 26° 59' N. LONG. 86° 01' W.
 Day Month Year
 TIME 2347 DEPTH 1650 MAX. SAMPLE DEPTH 2038 WIRE ANGLE 13 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 02 SEA 1 SWELL 045 ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu Ci 01,10 TEMP. 86.6 °F. 80.1 °F.
 Period Type Amount Dry Wet
 BAR. 30.03 in. REL. HUM. 75 % WIND 045 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	31.09	32.39	0.0	0.0	0.0	0.4
14	30.73	34.63	0.5	0.0	10.9	0.0
34	28.50	36.65	0.0	0.0	0.0	0.2
73	22.27	36.47	---	0.2	0.0	0.0
107	20.45	36.51	0.2	0.3	0.4	0.6
146	19.21	36.67	0.2	6.2	0.6	0.0
216	15.55	36.26	0.6	11.8	0.0	0.0
285	13.32	35.77	0.7	20.6	2.5	0.3
502	8.50	35.05	1.2	31.5	1.4	0.0
552	7.76	34.94	2.1	31.8	0.9	0.0
681	6.38	34.96	1.1	27.6	0.4	0.2
912	5.01	34.96	1.8	26.1	2.6	0.0
1277	4.28	34.96	1.6	23.1	5.0	0.0
1652	4.19	34.99	1.5	9.4	5.2	0.4
2038	4.19	35.01	---	19.2	---	0.1

STATION NO. 3-1C-7

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	31.09	32.39	19.42
10	30.84	34.00	20.71
20	30.22	35.10	21.75
30	29.19	36.20	22.92
50	26.33	36.63	24.18
75	22.12	36.58	25.40
100	20.70	36.53	25.76
150	18.92	36.43	26.15
200	16.28	36.30	26.70
250	14.46	36.04	26.91
300	12.97	35.69	26.95
400	10.42	35.32	27.15
500	8.56	35.06	27.25
600	7.21	34.95	27.37
700	6.27	34.96	27.51
800	5.57	34.96	27.60
1000	4.77	34.96	27.69
1200	4.37	34.96	27.74
1500	4.21	34.97	27.76
2000	4.19	35.01	27.80

STATION NO. 3-1C-8

DATE 14 8 1951 LAT. 26° 29' N. LONG. 85° 29' W.
 Day Month Year
 TIME 1210 DEPTH 1730 MAX. SAMPLE DEPTH 2689 WIRE ANGLE 27°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 120 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Sc Cu 1,6 TEMP. 86.0 °F. 79.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 73 % WIND 090 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.51	33.17	0.0	0.0	3.6	0.5
13	30.02	35.05	0.0	0.1	0.6	0.2
31	28.03	36.24	3.3	0.2	21.2	0.0
67	22.27	36.15	0.2	0.2	3.6	0.2
88	18.96	---	---	---	---	---
134	16.22	36.26	0.7	11.0	1.8	0.0
203	12.91	36.02	0.6	13.8	0.4	0.1
264	11.17	35.43	1.5	12.0	2.0	0.1
384	8.94	35.44	1.0	20.4	0.2	0.8
513	7.23	34.92	2.1	33.8	0.0	0.2
635	6.10	35.05	2.0	20.7	7.0	0.2
857	5.12	35.30	1.8	18.0	0.5	0.1
1210	4.36	35.01	0.9	15.5	0.4	0.2
1576	4.20	35.01	5.5	22.2	1.0	0.1
1960	4.20	35.08	1.1	19.8	1.3	0.2
2689	4.22	---	1.6	14.5	2.2	0.0

STATION NO. 3-1C-8

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	30.51	33.17	20.20
10	30.14	34.80	21.55
20	29.28	35.80	22.59
30	28.08	36.22	23.31
50	24.88	36.25	24.34
75	21.08	36.26	25.45
100	18.25	36.26	26.19
150	15.08	36.23	26.92
200	13.08	36.04	27.20
250	11.55	35.60	27.16
300	10.40	35.36	27.18
400	8.69	35.15	27.30
500	7.39	34.95	27.35
600	6.42	34.92	27.46
700	5.70	34.93	27.56
800	5.23	34.94	27.62
1000	4.72	34.97	27.71
1200	4.38	35.00	27.77
1500	4.20	35.01	27.79
2000	4.20	35.09	27.86

STATION NO. 3-1C-9

DATE 14 8 1951 LAT. 26° 00' N. LONG. 85° 00' W.
Day Month Year
 TIME 2054 DEPTH 1000 MAX. SAMPLE DEPTH 1325 WIRE ANGLE 29°
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 3 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS Sc Cu 10.4 TEMP. 88.7 °F. 80.7 °F.
Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 70 % WIND 090 ° T. 4 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	29.98	36.06	0.1	0.0	1.4	0.2
12	29.87	36.06				
30	28.35	36.04				
64	27.49	36.08				
94	24.59	---				
128	22.25	37.03				
192	18.72	36.18	0.3	0.7	6.8	0.0
253	16.43	36.35				
373	12.89	36.08				
415	---	37.05				
360	---	36.47				
300	14.38	36.18				
475	9.97	35.30				
710	6.56	34.90	2.2	38.0	2.3	0.4
928	5.36	34.96				
1325	4.23	34.99	1.2	20.5	2.6	0.4

** Change in depth while running cast.

STATION NO. 3-1C-9

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	σ_t
0	29.98	36.06	22.55
10	29.92	36.06	22.57
20	28.82	36.05	22.93
30	28.35	36.04	23.08
50	27.96	36.06	23.23
75	26.32	36.15	23.82
100	24.00	36.56	24.84
150	20.90	36.97	26.04
200	18.50	36.61	26.40
250	16.53	36.36	26.69
300	15.00	36.24	26.94
400	12.26	(36.03)	27.36

) Extrapolated values.

STATION NO. 3-1C-9A

DATE 15 8 1951 LAT. 26° 00' N. LONG. 85° 00' W.
 Day Month Year
 TIME 0308 DEPTH 1750 MAX. SAMPLE DEPTH 2029 WIRE ANGLE 40°
 GCT Faths. 07 Meters
 WATER COLOR - WEATHER 01 SEA 2 SWELL 090 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Sc Cu 10.4 TEMP. 88.7 °F. 80.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 70 % WIND 090 ° T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	29.91	36.06	0.1	0.1	0.8	0.0
11	29.90	36.04				
26	28.73	36.04				
56	27.07	36.08				
84	24.81	---				
116	22.91	36.96				
175	19.67	36.62	0.0	0.0	0.1	0.0
230	17.14	36.45				
342	13.52	36.36				
453	10.50	35.32				
556	8.29	36.09				
654	6.90	36.58				
856	5.44	34.96	1.9	31.7	2.4	0.0
1125	4.50	34.99				
1394	4.24	35.01				
2029	4.19	35.01	1.6	14.0	1.3	0.0

STATION NO. 3-1C-9A

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	29.91	36.06	22.57
10	29.90	36.04	22.56
20	29.08	36.04	22.84
30	28.58	36.05	23.01
50	27.40	36.07	23.42
75	25.70	36.24	24.08
100	23.78	36.40	24.79
150	20.82	36.60	25.78
200	18.45	36.57	26.38
250	16.48	36.37	26.71
300	14.87	36.11	26.87
400	11.90	35.60	27.09
500	9.36	35.25	27.27
600	7.62	35.14	27.46
700	6.50	35.05	27.55
800	5.73	34.98	27.59
1000	4.86	34.97	27.69
1200	4.38	35.00	27.77
1500	4.22	35.01	27.79
2000	4.19	35.01	27.80

STATION NO. 3-1C-10

DATE 15 8 1951 LAT. 26° 06' N. LONG. 84° 19' W.
 Day Month Year
 TIME 1234 DEPTH 105 MAX. SAMPLE DEPTH 186 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 3 SWELL 135 ° T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS Gi Cu 3.1 TEMP. 85.5 °F. 79.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 77 % WIND 110 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	29.83	35.73	0.1	0.0	0.2	0.1
10	29.83	35.71				
26	29.39	36.40				
52	25.11	36.47				
78	22.11	36.60				
104	19.91	36.55	0.2	4.6	0.0	0.4
145	17.38	36.44				
186	15.09	36.17	0.8	17.7	0.7	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	29.83	35.73	22.35
10	29.83	35.71	22.34
20	29.67	36.19	22.75
30	28.35	36.43	23.38
50	25.20	36.47	24.41
75	22.20	36.60	25.40
100	20.26	36.56	25.90
150	17.00	36.42	26.62

STATION NO. 3-1C-11

DATE 15 8 1951 LAT. 26° 09' N. LONG. 83° 50' W.
 Day Month Year
 TIME 1822 DEPTH 48 MAX. SAMPLE DEPTH 75 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 02 SEA 2 SWELL 135 ° T. - ft.
 Code Code Code Direction Hgt.
 --- sec. CLOUDS Cu 9 TEMP. 82.1 °F. 76.9 °F.
 Period Type Amount Dry Wet
 BAR. 30.03 in. REL. HUM. 79 % WIND 135 ° T. 3-5 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.00	34.00	0.0	0.4	0.8	0.2
10	30.24	34.90				
25	26.85	36.13	0.0	0.0	1.3	0.0
50	22.13	36.45				
75	17.94	36.29	0.4	7.8	3.0	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	30.00	34.00	21.00
10	30.24	34.90	21.59
20	28.00	35.69	22.93
30	25.35	36.24	24.19
50	22.13	36.45	25.30
75	17.94	36.29	26.29

STATION NO. 3-1C-12

DATE 16 8 1951 LAT. 26° 31' N. LONG. 83° 10' W.
 Day Month Year
 TIME 0119 DEPTH 25 MAX. SAMPLE DEPTH 40 WIRE ANGLE 0°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 135 ° T. - ft.
 Code Code Code Direction Hgt.
 --- sec. CLOUDS Cu 8 TEMP. 85.0 °F. 78.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 73 % WIND 135 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.26	34.81	0.0	0.1	1.9	0.0
20	28.82	36.11	0.1	0.0	1.1	0.0
40	23.45	36.40	0.1	0.1	0.0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.26	34.81	21.51
10	29.65	35.44	22.20
20	28.82	36.11	22.98
30	26.00	36.31	24.04

STATION NO. 3-1C-13

DATE 16 8 1951 LAT. 26° 39' N. LONG. 82° 31' W.
 Day Month Year
 TIME 0732 DEPTH 9 MAX. SAMPLE DEPTH 14 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 02 SEA 1 SWELL 180 ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu As 1,7 TEMP. 83.7 °F. 78.3 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 78% WIND 135 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.66	36.04	0.0	0.0	1.1	0.0
14	30.62	36.08	0.0	0.2	1.2	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	30.66	36.04	22.30
10	30.63	36.07	22.33

STATION NO. 3-1C-14

DATE 17 8 1951 LAT. 27° 17' N. LONG. 82° 58' W.
 Day Month Year
 TIME 1637 DEPTH 10 MAX. SAMPLE DEPTH 15 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 135 ° T. 1 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Cu 1 TEMP. 88.7 °F. 79.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 66 % WIND 135 °T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.79	35.53	0.0	0.6	1.9	0.4
15	30.64	35.97	0.1	0.4	0.4	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.79	35.53	21.87
10	30.66	35.82	22.13

STATION NO. 3-1C-15

DATE 17 8 1951 LAT. 27° 38' N. LONG. 83° 51' W.
 Day Month Year
 TIME 2336 DEPTH 24 MAX. SAMPLE DEPTH 40 WIRE ANGLE 0°
 GCF Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 180 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 2 TEMP. 87.8 °F. 79.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 69 % WIND 000 °T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	29.93	33.73	0.0	0.0	1.2	0.0
10	30.06	34.65				
25	25.68	36.31				
40	23.61	36.33	0.1	0.1	1.6	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	29.96	33.73	20.81
10	30.06	34.65	21.46
20	26.13	35.90	23.69
30	24.70	36.32	24.45

STATION NO. 3-1C-16

DATE 18 8 1951 LAT. 27° 42' N. LONG. 84° 51' W.
 Day Month Year
 TIME 0634 DEPTH 110 MAX. SAMPLE DEPTH 194 WIRE ANGLE 1.5°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL --- ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Ac 2 TEMP. 85.8 °F. 77.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 69 % WIND 135 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.27	30.46	0.0	0.2	2.0	0.2
15	26.81	36.15				
40	21.44	36.71				
65	19.34	36.65	0.4	10.5	1.6	0.5
90	18.04	36.58				
141	15.78	36.27				
194	14.50	36.04	0.7	19.5	1.3	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.27	30.46	18.26
10	28.00	34.26	21.86
20	24.90	36.31	24.38
30	22.50	36.52	25.25
50	20.38	36.69	25.97
75	18.70	36.62	26.35
100	17.50	36.54	26.59
150	15.51	36.22	26.82
200	(14.36)	(36.02)	26.92

() Extrapolated values.

STATION NO. 3-1C-17

DATE 18 8 1951 LAT. 28° 15' N. LONG. 84° 41' W.
 Day Month Year
 TIME 1223 DEPTH --- MAX. SAMPLE DEPTH 65 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 230 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 2 TEMP. 85.3 °F. 78.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 74 % WIND 135 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	30.02	31.74	0.3	---	1.5	---
10	30.32	32.86				
25	25.24	36.00				
45	20.69	36.45				
65	15.70	36.15	0.7	11.2	0.5	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.02	31.74	19.30
10	30.32	32.86	20.04
20	26.50	34.96	22.87
30	23.93	36.12	24.53
50	19.25	36.37	26.02

STATION NO. 3-1C-18

DATE 18 8 1951 LAT. 29° 03' N. LONG. 84° 27' W.
 Day Month Year
 TIME 1940 DEPTH 15 MAX. SAMPLE DEPTH 24 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL --- ° T. - ft.
 Code Code Code Direction Hgt.
 --- sec. CLOUDS Cu 1 TEMP. 91.8 °F. 80.9 °F.
 Period Type Amount Dry Wet
 BAR. 30 in. REL. HUM. 61 % WIND 215 T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	31.07	32.52	0.0	0.8	0.6	0.1
12	30.28	33.87				
24	26.84	35.66	0.0	0.1	1.2	---

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	31.07	32.52	19.52
10	30.36	33.65	20.61
20	28.26	35.07	22.38

STATION NO. 3-1C-20

DATE 19 8 1951 LAT. 29° 11' N. LONG. 85° 07' W.

Day Month Year

TIME 0052 DEPTH 15 MAX. SAMPLE DEPTH 25 WIRE ANGLE 0 °

GCT

Faths.

Meters

WATER COLOR - WEATHER 01 SEA 1 SWELL 020 ° T. 1 ft.

Code

Code

Code

Direction

Hgt.

4 sec. CLOUDS Ac Cu 1,2 TEMP. 85.8 °F. 78.4 °F.

Period

Type

Amount

Dry

Wet

BAR. 29.98 in. REL. HUM. 72 % WIND 000 ° T. 2 VIS. 9

Direction

Force

Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	29.76	31.20	0.0	0.2	1.6	0.2
10	30.01	32.57				
25	24.89	35.97	0.0	0.0	0.0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	29.76	31.20	18.98
10	30.01	32.57	19.92
20	27.40	34.84	22.49

STATION NO. 3-1C-21

DATE 19 8 1951 LAT. 28° 46' N. LONG. 85° 46' W.
 Day Month Year
 TIME 0659 DEPTH 115 MAX. SAMPLE DEPTH 188 WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 180 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 2 TEMP. 86.0 °F. 75.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 61 % WIND 180 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.33	30.19	0.0	0.0	2.4	0.4
15	28.50	36.22				
39	22.52	36.38				
64	20.28	36.44	0.1	3.9	1.0	0.4
89	18.50	36.45				
143	12.82	35.77				
188	11.86	35.53	0.9	27.6	0.2	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t
0	30.33	30.19	18.04
10	29.34	34.21	21.38
20	27.42	36.31	23.59
30	24.72	36.36	24.47
50	21.42	36.41	25.47
75	19.50	36.45	26.02
100	17.34	36.31	26.45
150	12.57	35.72	27.05
200	(11.74)	(35.49)	27.04

() Extrapolated values.

STATION NO. 3-10-22

DATE 19 8 1951 LAT. 29° 26' N. LONG. 85° 45' W.
 Day Month Year
 TIME 1344 DEPTH 15 MAX. SAMPLE DEPTH 25 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 160 ° T. 1 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 2 TEMP. 86.9 °F. 80.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 73 % WIND 090 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	28.94	28.95	0.0	0.0	1.8	0.2
10	29.88	34.13				
25	24.32	36.02	0.0	0.0	0.2	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	28.94	28.95	17.58
10	29.88	34.13	21.14
20	26.05	35.39	23.33

STATION NO. 3-1C-23

DATE 19 8 1951 LAT. 30° 06' N. LONG. 85° 45' W.
 Day Month Year
 TIME 1937 DEPTH 10 MAX. SAMPLE DEPTH 18 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL --- ° T. - --- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 88.7 °F. 80.7 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 70 % WIND 180 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.46	33.55	0.1	0.4	1.1	0.4
9	29.92	33.58	0.2	0.0	0.9	0.2
18	28.92	34.52	0.0	0.2	2.0	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.46	33.55	20.50
10	29.72	33.68	20.85

STATION NO. 3-1C-24

DATE 20 8 1951 LAT. 29° 43' N. LONG. 86° 10' W.
 Day Month Year
 TIME 1824 DEPTH 27 MAX. SAMPLE DEPTH 50 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 170 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 4 TEMP. 88.7 °F. 80.8 °F.
 Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 70 % WIND 135 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.84	29.79	0.1	0.1	1.0	0.0
10	29.50	33.69				
25	23.04	36.26				
50	18.68	36.40	0.4	11.1	0.2	0.7

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.84	29.79	17.56
10	29.50	33.69	20.94
20	25.15	34.55	22.98
30	22.37	36.30	25.12
50	18.68	36.40	26.19

STATION NO. 3-1C-25

DATE 20 8 1951 LAT. 29° 30' N. LONG. 86° 28' W.
 Day Month Year
 TIME 2147 DEPTH 98 MAX. SAMPLE DEPTH 174 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 1 SWELL -- ° T. 1 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS 00 -- TEMP. 87.9 °F. 80.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 71 % WIND 135 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	31.76	---	0.4 ¹	0.0	0.8	0.0
15	29.93	30.09				
40	23.90	36.53				
65	20.34	36.49	0.1	2.8	0.6	---
91	18.55	36.56				
127	15.58	36.22				
174	13.42	35.81	0.8	27.6	2.6	0.7

¹Cloudy

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	31.76	---	---
10	30.58	---	---
20	28.72	36.22	23.09
30	26.32	36.44	24.04
50	22.43	36.52	25.27
75	19.64	36.52	26.03
100	17.81	36.50	26.48
150	14.32	36.01	26.92

STATION NO. 3-1C-26

DATE 21 8 1951 LAT. 29° 57' N. LONG. 86° 50' W.
 Day Month Year
 TIME 0236 DEPTH 70 MAX. SAMPLE DEPTH 122 WIRE ANGLE 20 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 160 ° T. 3 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS C1 2 TEMP. 87.0 °F. 79.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 71 % WIND 180 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.77	---	0.0	0.2	1.0	0.0
10	28.80	34.83				
23	23.81	36.26				
47	18.69	36.36	0.4	11.0	0.0	0.0
79	16.23	36.15				
122	13.78	35.81	0.9	15.4	0.0	0.8

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.77	---	---
10	28.80	34.83	22.02
20	25.00	35.98	24.10
30	22.38	36.29	25.11
50	18.50	36.35	26.20
75	16.55	36.19	26.55
100	15.00	36.00	26.76

STATION NO. 3-1C-27

DATE 21 8 1951 LAT. 30° 15' N. LONG. 87° 17' W.
Day Month Year
 TIME 0649 DEPTH 10 MAX. SAMPLE DEPTH 18 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 1 SWELL 135 ° T. 4 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS 00 TEMP. 86.4 °F. 79.3 °F.
Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 73% WIND 225 ° T. 1 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	31.39	---	0.0	0.0	0.2	0.1
18	27.56	36.17	0.0	0.2	0.6	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	31.39	---	---
10	29.05	---	---

STATION NO. 3-1C-28

DATE 21 8 1951 LAT. 29° 53' N. LONG. 87° 45' W.
Day Month Year
 TIME 1129 DEPTH 17 MAX. SAMPLE DEPTH 25 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 1 SWELL 170 ° T. 10 ft.
Code Code Code Direction Hgt.
7 sec. CLOUDS 01 3 TEMP. 85.3 °F. 78.5 °F.
Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 74 % WIND 000 ° T. 1 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	30.81	31.60	0.1	0.4	1.0	0.4
10	27.48	35.17				
25	22.91	36.29	0.1	0.1	0.1	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t
0	30.81	31.60	18.93
10	27.48	35.17	22.71
20	24.30	35.97	24.31

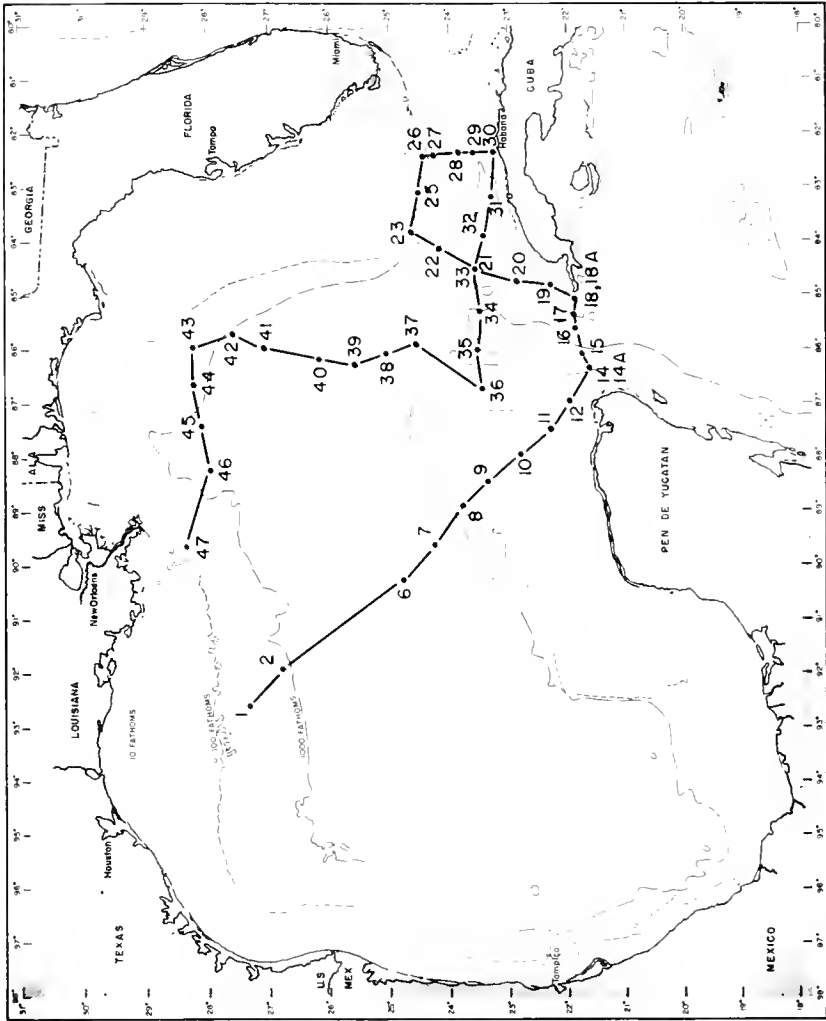


Figure 18.--Locations of stations occupied on Cruise 4-2A.

STATION NO. 4-2A-1

DATE 9 1 1952 LAT. 27°18' N. LONG. 92°35' W. TIME 2258
 Day Mo. Year GCT
 DEPTH 560 MAX. SAMPLE DEPTH 895 WIRE ANGLE 30°
 Faths. Meters
 WEATHER 03 SEA 3 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 Sc. 2
 CLOUDS Cu. 10 TEMP. 74.2 °F. 69.8 °F. BAR. 30.05 in.
 Type Amount Dry Wet
 REL. HUM. 80 % WIND 200 T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.86	36.47	0.6	0.0	0.0	1.3	0.1
10	22.86	36.25	0.9	0.1	0.0	2.0	0.1
24	22.90	36.51	0.4	0.0	0.0	3.2	
46	22.62	36.50	0.5	0.0	0.0		
69	22.25	36.40	0.5	0.1	0.0		
92	20.10	36.45	1.1	0.6	10.0	1.0	
143	15.67	36.18	1.3	1.0	21.0		0.0
191	14.04	35.91		1.6	30.0		
286	10.86	35.39	1.6	1.5	30.0		
388	8.78	35.13		1.9	37.0	2.2	0.1
486	7.50	34.91	2.2	1.8	45.0	0.9	
590	6.54	34.88	2.0	1.8	37.0	0.5	0.0
690	5.87	34.97	1.9	1.9	40.5		
795	5.03	34.88	1.7	1.8	37.0		
895	4.95	34.97	1.8	1.6	38.0		

STATION NO. 4-2A-1

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. o/oo	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.86	36.47	25.11	0.6	0.0	0	1.3	0.1
10	22.86	36.25	24.94	0.9	0.1	0	2.0	0.1
20	22.90	36.39	25.04	0.5	0.0	0	2.9	
30	22.80	36.51	25.16	0.4	0.0	0	3.0	
50	22.55	36.48	25.20	0.5	0.0	0	2.4	
75	22.00	36.41	25.31	0.6	0.2	3	1.6	
100	18.50	36.40	26.24	1.1	0.7	12	1.0	
150	15.35	36.15	26.80	1.3	1.1	22	1.3	0.0
200	13.55	35.84	26.95	1.4	1.6	30	1.5	
250	11.74	35.53	27.07	1.5	1.5	30	1.7	
300	10.50	35.34	27.15	1.6	1.6	31	1.9	
400	8.60	35.09	27.27	1.9	1.9	38	2.0	0.1
500	7.37	34.90	27.31	2.2	1.8	44	0.8	
600	6.47	34.89	27.43	2.0	1.8	37	0.5	0.0
700	5.75	34.97	27.58	1.9	1.9	40	0.2	
800	5.02	34.88	27.60	1.7	1.8	37	0.1	

STATION NO. 4-2A-2

DATE 10 1 1952 LAT. 26°42' N. LONG. 91°59' W. TIME 0652
 Day Mo. Year GCT

DEPTH 880 MAX. SAMPLE DEPTH 1179 WIRE ANGLE 20°
 Faths. Meters

WEATHER 60 SEA 3 SWELL ° T ft. sec.
 Code Code Direction Hgt. Period

CLOUDS Sc. 10 TEMP. 70.0°F 66.5°F. BAR. 30.18 in.
 Type Amount Dry Wet

REL. HUM: 83 % WIND 310° T. 5 VIS. 6
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	22.64	---		0.0	0.0	1.9	0.2
10	22.65	36.31	0.4	0.3	0.0	1.2	
29	22.65	36.43	0.3	0.1	1.0	1.7	
57	22.55	36.43	1.5	0.1	0.0	1.6	
85	19.09	36.53	0.8	0.6	11.0		
133	17.40	36.17	0.9	0.7	17.0	1.3	0.4
170	13.44	35.66	1.3	1.4	27.	1.2	
228	11.60	35.41	1.5	2.3	33.0		
341	9.75	35.18	1.3	1.7	37.4	0.0	0.1
452	7.80	34.97	1.8	2.1	39.4	4.7	0.1
567	6.52	34.88	1.9	2.3	43.		
678	5.72	34.91	2.2	2.2	37.		
907	4.75	34.92	1.6		37.		
1179	4.32	34.91	1.7	1.7	35.		

STATION NO. 4-2A-2

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.64	(36.35)	25.08		0.0	0	1.9	0.2
10	22.65	36.31	25.05	0.4	0.3	0	1.2	
20	22.70	36.40	25.10	0.3	0.2	0	1.4	
30	22.65	36.43	25.14	0.3	0.1	1	1.7	
50	22.60	36.43	25.15	1.2	0.1	0	1.6	
75	20.10	36.50	25.90	1.1	0.4	5	0.8	
100	18.75	36.45	26.21	0.8	0.6	15	0.7	
150	16.60	35.87	26.43	1.1	1.0	24	1.3	0.4
200	12.25	35.49	26.94	1.4	1.9	32	1.0	
250	11.30	35.36	27.02	1.5	2.2	36	0.6	
300	10.45	35.26	27.10	1.4	2.0	37	0.3	0.1
400	8.61	35.07	27.25	1.6	1.9	39	2.5	0.1
500	7.22	34.92	27.35	1.8	2.2	40		0.1
600	6.24	34.88	27.45	2.0	2.3	41		
700	5.57	34.91	27.56	2.1	2.2	37		
800	5.14	34.92	27.62	1.9	1.9	37		
1000	4.52	34.92	27.69	1.6	1.9	36		
1200	(4.29)	(34.91)	27.71		2.4			
1500							1.1	

() Extrapolated values.

STATION NO. 4-2A-6

DATE 11 1 1952 LAT. 24°46' N. LONG. 90°06' W. TIME 1255
 Day Mo. Year GCT
 DEPTH 1900 MAX. SAMPLE DEPTH 2252 WIRE ANGLE 27 °
 Faths. Meters
 WEATHER 02 SEA 3 SWELL 45 ° T. 8 ft. 6 sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc. 9 TEMP. 70.5 °F. 64.0 °F. BAR. 30.40 in.
 Type Amount Dry Wet
 REL. HUM. 70 % WIND 090 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total	Inorg.	NO ₃ -N	Carb. Prot.	
			PO ₄ -P	PO ₄ -P		Mg/l	Mg/l
0	23.51	36.44	0.5	0.4	0		
13	23.54	36.37		0.2	0	1.8	
31	23.54	36.31	0.4	0.0	0		
66	23.36	36.36	0.4		-		
97	19.81	36.41	1.4	0.8	14	2.6	
132	17.26	36.19	1.4	0.8	20	3.8	
197	13.98	35.75	1.2	0.9	25		
262	11.92	35.43	1.8	1.3	32		
387	9.15	35.19	2.8	2.2	43		
519	7.15	34.98	2.4	2.3	36	0.0	0.4
643	5.68	35.14	2.5	1.9	24	0.7	
774	5.44	34.97	2.4	1.6	40		
1032	4.58	34.97	2.6	1.6	35	1.8	
1294	4.27	34.97	2.2	1.4	34	1.2	
1570	4.66	34.97	2.2	1.7	-	0.3	-
2252	4.20	34.99	2.1	1.5	27		

STATION NO. 4-2A-6

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.51	36.44	24.90	.5	0.4	0		
10	23.51	36.39	24.86	.5	0.2	0		
20	23.50	36.34	24.82	.4	0.1	0	1.8	
30	23.49	36.31	24.80	.4	0.0	0	2.6	
50	23.47	36.33	24.82	.4	-	1	3.0	
75	22.70	36.38	25.09	.7	-	6	2.8	
100	19.60	36.41	25.96	1.4	0.8	15	2.7	
150	16.10	36.05	26.55	1.3	0.8	21	3.6	
200	13.72	35.71	26.81	1.2	0.9	25		
250	12.31	35.47	26.91	1.7	1.1	31		
300	10.90	35.35	27.08	2.1	1.6	35		
400	9.00	35.16	27.26	2.8	2.2	42		
500	7.38	34.98	27.37	2.5	2.3	37	0.2	0.4
600	6.08	34.98	27.55	2.5	2.0	26	0.5	
700	5.52	34.97	27.61	2.5	1.8	31	0.8	
800	5.33	34.97	27.63	2.4	1.6	39	1.2	
1000	4.65	34.97	27.71	2.6	1.6	36	1.7	
1200	4.31	34.97	27.75	2.3	1.4	34	1.4	
1500	4.57	34.97	27.72	2.2	1.6	33	0.5	
2000	4.48	34.98	27.74	2.1	1.5	29		

STATION NO: 4-2A-7

DATE 11 1 1952 LAT. 24°15' N. LONG. 89°32' W. TIME 2148
 Day Mo. Year GCT
 DEPTH 1890 MAX. SAMPLE DEPTH 2500 WIRE ANGLE 5 °
 Faths. Meters
 WEATHER 02 SEA 4 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 8 TEMP. 71.0°F. 63.8°F. BAR. 30.39 in.
 Type Amount Dry Wet
 REL. HUM. 68 % WIND 120° T. 3 VIS. 7
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.90	36.43	.6	0.1	3		
15	23.88	36.45	.8	0.1	0		
36	23.84	36.41	.4	0.1	0	0.6	
76	---	36.40	.6	0.0	1		
111	19.28	36.40	2.2		12		
151	16.54	36.23	1.2	0.7	22		
227	13.47	35.68	2.0	1.2	25	3.0 ^a	
302	11.16	35.99			-		
447	8.39	35.00	3.0	1.9	32	0.7	
602	6.76	34.90	3.0	1.9	38	1.6 ^a	
748	5.67	34.90	3.1	1.9	40	0.0	
903	5.05	34.88	2.2	1.9	28	1.8	
1204	4.40	34.90	1.5	1.6	35	1.8	
1504	4.21	34.96	2.1	1.7	26		
1804	4.20	36.95	.7	0.4	8		
2485	4.20	34.97	2.1	1.4	29		

(a) Green carbohydrates.

STATION NO. 4-2A-7

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. o/oo	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.90	36.43	24.77	.6	0.1	3	2.2	
10	23.85	36.44	24.80	.7	0.1	0	1.8	
20	23.80	36.45	24.82	.6	0.1	0	1.3	
30	23.75	36.42	24.81	.5	0.1	0	0.8	
50	23.50	36.40	24.87	.5	0.1	0	0.8	
75	22.10	36.40	25.27	.6	0.0	1		
100	20.30	36.40	25.77	1.7	0.2	9		
150	16.56	36.24	26.59	1.2	0.7	22		
200	14.53	35.84	26.74	1.7	1.0	24	2.7	
250	12.55	35.50	26.89	2.1	1.3	26	2.8	
300	11.15	35.31	27.01	2.3	1.4	27	2.2	
400	9.18	35.06	27.16	2.8	1.8	31	1.2	
500	7.80	34.96	27.29	3.0	1.9	34	1.0	
600	6.78	34.90	27.39	3.0	1.9	38	1.6	
700	5.96	34.90	27.50	3.1	1.9	40	0.5	
800	5.42	34.90	27.57	2.8	1.9	36	0.6	
1000	4.80	34.88	27.62	2.0	1.8	30	1.8	
1200	4.40	34.90	27.69	1.5	1.6	35	1.8	
1500	4.25	34.96	27.75	2.1	1.7	26		
2000	4.20	34.97	27.76	1.1	0.7			
2500	(4.20)	(34.97)	27.76	2.1	1.4	29		

() Extrapolated values.

STATION NO. 4-2A-8

DATE 12 1 1952 LAT. 23°47' N. LONG. 88°55' W. TIME 1139
 Day Mo. Year GCT
 DEPTH 87 MAX. SAMPLE DEPTH 149 WIRE ANGLE 6 °
 Faths. Meters
 WEATHER 01 SEA 3 SWELL 090 ° T. 5 ft. 6 sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 3 TEMP. 74.1°F. 67.4°F. BAR. 30.28 in.
 Type Amount Dry Wet
 REL. HUM. 71 % WIND 090° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.03	36.48	.5	0.2	0		0.0
10	24.15	36.45	.4	0.2	0	0.0	
20	24.16	36.45	.8	0.0	0		
45	24.16	36.43	1.5	0.1	2		
85	23.49	36.56	.5	0.2	0	2.0	
114	19.68	36.42	.8	0.4	11		
149		36.33	1.9	1.0	17		

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.03	36.48	24.77	0.5	0.2	0	0	0.0
10	24.15	36.45	24.71	0.4	0.2	0	0	
20	24.16	36.45	24.71	0.8	0.0	0	0.3	
30	24.15	36.44	24.71	1.1	0.0	1	0.5	
50	24.05	36.43	24.73	1.4	0.1	2	1.0	
75	23.68	36.53	24.91	0.7	0.2	0	1.6	
100	22.30	36.55	25.33	0.6	0.3	6		
150				1.9	1.0	17		

STATION NO. 4-2A-9

DATE 12 1 1952 LAT. 23°19' N. LONG. 88°29' W. TIME 1908
Day Mo. Year GCT
 DEPTH 48 MAX. SAMPLE DEPTH 85 WIRE ANGLE 0 °
Faths. Meters
 WEATHER 02 SEA 3 SWELL - ° T. - ft. - sec.
Code Code Direction Hgt. Period
 CLOUDS Sc. 9 TEMP. 76.8 °F. 69.4 °F. BAR. 30.27 in.
Type Amount Dry Wet
 REL. HUM. 69 % WIND 090 ° T. 3 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.40	36.41	.5	0.0	0	1.6	
10	24.39	36.42	.7	0.0	0	1.3	
25	24.42	36.31	1.2	0.0	0	2.4	
45	24.36	36.34	.4	0.1	0	0.7	
65	23.84	36.36	.6	0.0	3		
85	20.73	36.51	1.0	0.5	9	1.2	

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	24.40	36.41	24.61	0.5	0.0	0	1.6	
10	24.39	36.42	24.62	0.7	0.0	0	1.3	
20	24.40	36.37	24.58	1.0	0.0	0	2.0	
30	24.40	36.32	24.54	1.0	0.0	0	2.0	
50	24.23	36.35	24.61	0.4	0.1	1	0.7	
75	23.40	36.39	24.89	0.8	0.3	5	1.1	

STATION NO. 4-2A-10

DATE 13 1 1952 LAT. 22°48' N. LONG 88°00' W. TIME 0044
 Day Mo. Year GCT
 DEPTH 34 MAX. SAMPLE DEPTH 50 WIRE ANGLE - °
 Paths. Meters
 WEATHER 01 SEA 2 SWELL 0/0 ° T. 4 ft. 5 sec.
 Code Code Direction Hgt. Period
 CLOUDS sc 3 TEMP 75.1 °F 67.0 °F. BAR. 30.26 in.
 Type Amount Dry Wet
 REL. HUM. 66 % WIND 090 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.24	36.53	.6	0.0	0	1.1	
10	24.23	36.25	1.8	1.5	4	1.9*	
30	24.25	36.36	.8	0.0	-		
40	24.31	36.51	.6		1		
50	24.22	36.61	.7	0.2	0	2.8	

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/l Mg/l
0	24.24	36.53	24.75	0.6	0.0	0	1.1
10	24.23	36.25	24.54	1.8	1.5	4	1.9
20	24.23	36.30	24.58	1.3	0.8	3	2.1
30	24.25	36.36	24.62	0.8	0.0	2	2.4
50	24.22	36.61	24.81	0.7	0.2	0	2.8

*Contaminated.

STATION NO. 4-2A-11

DATE 13 1 1952 LAT. 22°18' N. LONG 87°30' W. TIME 0652
 Day Mo. Year GCT
 DEPTH 26 MAX. SAMPLE DEPTH 42 WIRE ANGLE 0 °
 Faths. Meters
 WEATHER 00 SEA 3 SWELL 045 ° T. 4 ft. 5 sec.
 Code Code Direction Hgt. Period
 CLOUDS -- 0 TEMP. 74.5 °F. 68.0 °F. BAR. 30.14 in.
 Type Amount Dry Wet
 REL. HUM. 72 % WIND 090 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.49	36.35	1.4	0.0	-	1.5	
7	23.48	36.67	2.1	0.0	0	1.8	
12	23.48	36.56	.7	0.1	0		
22	23.44	36.33	.5	0.1	-	0.1	
32	21.44	36.55	1.2	0.4	7		
42	21.43	36.69	.9	0.4	9		

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	23.49	36.35	24.83	1.4	0.0		1.5	
10	23.48	36.67	25.08	1.3	0.0	0	1.5	
20	23.45	36.40	24.88	0.5	0.1	2	0.3	
30	21.45	36.45	25.49	1.1	0.3	6		

STATION NO. 4-2A-12

DATE 13 1 1952 LAT. 21°53' N. LONG. 87°02' W. TIME 1249
 Day Mo. Year GCT
 DEPTH 14 MAX. SAMPLE DEPTH 22 WIRE ANGLE 15 °
 Faths. Meters
 WEATHER 02 SEA 3 SWELL 090 ° T. 8 ft. 6 sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 9 TEMP. 74.5°F. 66.7°F. BAR. 30.24 in.
 Type Amount Dry Wet
 REL. HUM. 66 % WIND 090 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.95	36.08	2.5				
10	21.18	36.35	2.4	0.3	6		
14	20.91	36.31	.8	0.3	8		0.1
22	20.92	36.33	2.8	0.2	8		

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.95	36.08	24.79	2.5				
10	21.18	36.35	25.49	2.4	0.3	6	0.2	0.1
20	20.92	36.32	25.54	2.3	0.2	8		

STATION NO. 4-2A-14

DATE 14 1 1952 LAT. 21°37' N. LONG. 86°23' W. TIME 0022
 Day Mo. Year GCT
 DEPTH 400 MAX. SAMPLE DEPTH 458 WIRE ANGLE 38 °
 Faths. Meters
 WEATHER 01 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 6 TEMP. 76.7 °F. 69.8 °F. BAR. 30.20 in.
 Type Amount Dry Wet
 REL. Hum. 71 % WIND 090 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.48	35.75	.4	0.1	0	0.5	
9	26.52	35.80	.4	0.0	0		
22	26.52	36.07	.6	0.1	0		
44	---	36.04	.5	0.0	1	2.8	
65	24.65	36.47	.6	0.1	3	0.4	
85	22.52	36.87	1.2	0.2	7		
130	---	36.43	.9	0.5	15		
164	10.45	36.25	1.2	0.5	14	0.0	0.2
200	---	36.32	1.6	0.6	14	1.8	
235	15.07	---	.5		3		
277	14.29	35.81	1.4		19		0.1
362	12.07	35.67	1.8	1.2	31		
458	7.83	35.13	2.0	1.4	35	0.7	

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.48	35.75	23.47	0.4	0.1	0	0.5	
10	26.52	35.82	23.51	0.4	0.0	0	1.0	
20	26.52	36.00	23.64	0.6	0.1	0	1.5	
30	26.45	36.07	23.72	0.6	0.1	0	2.1	
50	26.00	36.15	23.92	0.5	0.0	1	2.1	
75	24.00	36.70	24.95	0.9	0.2	5	0.4	
100	21.50	36.83	25.77	1.1	0.3	9	0.3	
150	18.30	36.31	26.22	1.1	0.5	14	0.1	0.0
200	16.15	36.08	26.56	1.6	0.6	14	1.8	
250	14.80	35.87	26.70	0.8	0.8	17	1.6	
300	13.93	35.77	26.81	1.5	1.0	22	1.4	0.1
400	10.50	35.50	27.27	1.9	1.3	33	0.9	

STATION NO. 4-2A-14A

DATE 14 1 1952 LAT. 21°37' N. LONG. 86°23' W. TIME 0212
 Day Mo. Year GCT °
 DEPTH 400 MAX. SAMPLE DEPTH 511 WIRE ANGLE 45
 Faths. Meters
 WEATHER 01 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 4 TEMP. 76.3°F. 67.4°F. BAR. 30.22 in.
 Type Amount Dry Wet
 REL. HUM. 62 % WIND 100 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.52	35.86		0.0	0		
68	24.38	36.47	.4	0.0	4	0.0	
171	17.20	36.28	1.2	1.0	15		0.3
174	---	36.46	1.2	0.7	17	0.6	
332	11.80	35.68	2.0	1.4	29	0.1	
415	10.16	35.23	2.0		32		
511	7.61	34.97	2.9	1.8	37		

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.52	35.86	23.54		0.0	0		
10	26.39	35.95	23.65		0.0	1		
20	26.20	36.06	23.79		0.0	1		
30	25.98	36.15	23.93		0.0	2		
50	25.20	36.32	24.30		0.0	3		
75	23.90	36.47	24.80	0.5	0.1	5	0.0	
100	21.65	36.43	25.42	0.7	0.3	7	0.2	
150	18.25	36.33	26.25	1.1	0.8	13	0.5	0.3
200	16.45	36.21	26.59	1.3	0.8	19	0.5	
250	14.45	36.08	26.94	1.6	1.0	23	0.4	
300	12.65	35.85	27.14	1.8	1.3	27	0.2	
400	10.45	35.29	27.12	2.0	1.6	31	0.5	
500	7.93	34.99	27.30	2.8	1.8	36	1.1	

STATION NO. 4-2A-15

DATE 14 1 1952 LAT. 21°43' N. LONG. 86°02' W. TIME 0643
 Day Mo. Year GCT
 DEPTH 950 MAX. SAMPLE DEPTH 1241 WIRE ANGLE 33 °
 Faths. Meters
 WEATHER 02 SEA 3 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 7 TEMP. 76.1 °F. 65.6 °F. BAR. 30.20 in.
 Type Amount Dry Wet
 REL. HUM. 57 % WIND 100 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	26.71	35.74	.2	0.2	0	0.0	
13	26.68	35.71	.4	0.1	0	1.8	
28	26.69	35.84	.7		0		0.4
61	---	35.61	.8	0.0	1		
89	25.16	36.15	.5	0.0	2		
121	23.57	36.60	.2	0.1	4	1.2	0.0
181	20.44	37.09	1.1		5		
239	18.47	36.56	.7	0.4	11	1.9	
348	15.06	35.84	1.5	0.9	19		
457	11.47	35.39	4.3	1.0	29		0.1
559	9.44	34.98	2.4		29		
669	---	35.13	3.0	1.6	32		
810	6.10	34.91	2.0	1.8	37	7.2	
1022	4.95	34.97	1.9	2.2	37		
1241	4.40	34.99	1.8	1.5	32		

STATION NO. 4-2A-15

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. o/oo	σ_t	Total · PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.71	35.74	23.39	0.2	0.2	0	0.0	
10	26.71	35.71	23.37	0.3	0.1	0	1.4	
20	26.69	35.77	23.42	0.5	0.1	0	1.7	
30	26.69	35.84	23.47	0.7	0.1	0	1.7	0.4
50	26.35	35.70	23.47	0.8	0.0	1	1.6	
75	25.70	35.90	23.83	0.6	0.0	2	1.4	
100	24.53	36.33	24.51	0.4	0.0	3	1.3	0.0
150	21.90	37.00	25.78	0.6	0.2	4	1.4	
200	19.83	37.07	26.40	1.0	0.3	7	1.7	
250	18.30	36.46	26.33	0.8	0.5	12	2.0	
300	16.60	36.11	26.48	1.1	0.7	15	2.7	
400	13.03	35.66	26.92	2.8	0.9	24	3.7	
500	10.50	35.07	26.94	3.5	1.1	29	4.6	0.1
600	8.85	35.01	27.17	2.6	1.4	30	5.5	
700	7.43	35.11	27.46	2.8	1.6	33	6.3	
800	6.13	34.92	27.49	2.1	1.8	37	7.2	
1000	5.00	34.96	27.66	1.9	2.2	37		
1200	4.50	34.99	27.75	1.8	1.6	32		

STATION NO. 4-2A-16

DATE 14 1 1952 LAT. 21°50' N. LONG. 85°35' W. TIME 1247
 Day Mo. Year GCT °
 DEPTH 1120 MAX. SAMPLE DEPTH 1918 WIRE ANGLE 18 °
 Faths. Meters
 WEATHER 00 SEA 3 SWELL 045 ° T. - ft. 7 sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 73.5 °F. 65.5 °F. BAR. 30.13 in.
 Type Amount Dry Wet
 REL. HUM. 65 % WIND 090 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. o/oo	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.61	35.79	.2	0.2	0		0.1
15	26.60	35.88	.7	0.1	0	0.3	
33	26.60	36.09	.6		0		
71	26.65	36.02	1.2	0.1	0		
103	26.55	36.09	.5		0		
140	25.11	36.00	.5		0		
208	23.81	35.94	.2		0		
276	21.03	36.60	.4		3		
400	---	36.55	.7	0.4	12	0.8	
527	14.24	35.94	1.4		22		
643	10.82	35.13	2.5	1.6	38		
764	8.78	35.08	2.2	1.8	47		
1000	5.17	35.00	2.3		31		
1250	4.37	34.94	2.1	1.6	27		
1526	4.18	34.93	2.1	1.5	29		
1918	4.05	35.90					

STATION NO. 4-2A-16

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.61	35.79	23.46	0.2	0.2	0		0.1
10	26.61	35.85	23.50	0.5	0.1	0	0.3	
20	26.60	35.96	23.59	0.7	0.1	0	0.3	
30	26.60	36.09	23.69	0.6	0.1	0		
50	26.60	36.10	23.69	0.8	0.1	0		
75	26.62	36.10	23.69	1.1	0.1	0		
100	26.60	36.09	23.69	0.5		0		
150	24.95	35.99	24.12	0.5		0		
200	24.11	35.94	24.34			0		
250	21.90	36.53	25.43			2		
300	20.30	36.62	25.93			5		
400	17.60	36.55	26.57		0.4	12	0.8	
500	15.10	36.22	26.91	1.4	0.9	20		
600	12.01	35.27	26.82	2.1	1.4	32		
700	9.91	35.10	27.06	2.4	1.7	43		
800	8.12	35.07	27.33	2.2	1.8	45		
1000	5.17	35.00	27.68	2.3	1.7	31		
1200	4.48	34.94	27.71	2.1	1.6	28	1.4	
1500	4.20	34.93	27.73	2.1	1.5	29		
2000	(4.00)	(34.92)	27.74					

) Extrapolated values.

STATION NO.4-2A-17

DATE 14 1 1952 LAT. 21°54' N. LONG. 85°23' W. TIME 1859
 Day Mo. Year GCT
 DEPTH 970 MAX. SAMPLE DEPTH 1592 WIRE ANGLE 10 °
 Faths. Meters
 WEATHER 01 SEA 3 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 5 TEMP. 76.6 °F. 68.8 °F. BAR. 30.19 in.
 Type Amount Dry Wet
 REL. HUM. 67 % WIND 090 ° T. 3 VIS. 10
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.55	35.90	.3		0		
10	26.54	35.86	.6	0.2	0		
24	26.52	35.90	.8		1		0.4
53	26.56	35.93	.4		0		
78	26.53	36.13	1.3	0.0	0	0.2	
108	25.85	36.27	.8		0		
162	24.72	35.91	.5		0		
216	20.55	36.75	1.5		7		
326	17.06	36.44	1.0	0.5	14		
440	15.04	36.56	1.8		19		
550	11.29	35.42	2.0	1.2	30		
650	9.40	34.95	2.7	1.7	39		
874	6.25	35.20	2.5	1.8	19		
1089	4.93	34.99	2.6		34		
1293	4.39	34.97	2.0		29		
1592	4.15	35.02	2.0		29		

STATION NO: 4-2A-17

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₂ -N	Carb. Mg/l	Prot. Mg/l
0	26.55	35.90	23.56	0.3		0		
10	26.54	35.86	23.53	0.6	0.2	1	1.5	
20	26.53	35.90	23.57	0.7	0.2	1		0.4
30	26.52	35.91	23.58	0.7	0.1	1		
50	26.53	35.93	23.59	0.5	0.1	0		
75	26.52	36.10	23.72		0.0	0	0.2	
100	26.10	36.25	23.97	0.8		0		
150	25.05	35.97	24.08	0.6		0		
200	21.25	36.72	25.75	1.2		5		
250	19.10	36.69	26.30	1.3		9		
300	17.58	36.54	26.57	1.1	0.5	12	4.2	
400	15.83	36.20	26.73	1.5	0.7	17	4.3	
500	12.85	35.70	26.98	1.9	1.0	25	3.9	
600	10.29	35.06	26.97	2.4	1.5	35	3.8	
700	8.52	34.95	27.18	2.6	1.7	35		
800	7.10	34.96	27.39	2.6	1.8	26		
1000	5.45	34.99	27.63	2.6		28		
1200	4.61	34.96	27.71	2.3		31		
1500	4.16	35.01	27.80	2.0		29		

STATION NO. 4-2A-18

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.45	36.10	23.74	.5		0		
10	26.44	35.92	23.61	.5	0.0	0	1.0	
20	26.42	35.94	23.63	1.0	0.0	0		
30	26.42	35.95	23.64	1.1	0.0	0		
50	26.44	35.93	23.62	1.2	0.0	0		
75	26.42	35.97	23.65	0.6	0.0	2		
100	26.43	35.99	23.67	0.4	0.0	0	1.1	
150	23.75	36.17	24.62	0.7	0.0	8	2.6	0.0
200	20.75	36.50	25.72	0.7	0.6	0	3.4	
250	18.60	36.59	26.36	1.2	0.1	11	3.1	0.4
300	17.50	36.55	26.60	0.8	0.3	12	2.8	
400	15.27	36.03	26.72	1.4	0.8	2	2.1	
500	13.10	35.66	26.90	1.6	1.0	31	0.1	
600	10.75	35.32	27.09	1.9				0.0

STATION NO. 4-2A-18

DATE 15 1 1952 LAT. 21°52' N. LONG. 85°01' W. TIME 1759
 Day Mo. Year GCT
 DEPTH 400 MAX. SAMPLE DEPTH 611 WIRE ANGLE 10 °
 Faths. Meters
 WEATHER 01 SEA 3 SWELL - ° T. - ft. - sec
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 77.2 °F. 71.0 °F. BAR. 30.18 in.
 Type Amount Dry Wet
 REL. HUM. 74 % WIND 135 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.45	36.10	.5		0		
10	26.44	35.92	.5	0.0	0	1.0	
24	26.41	35.95	1.1		0		
49	26.44	35.93	1.2	0.0	0		
73	26.42	35.97	.6		2		
98	26.45	35.99	.4		0		
152	23.08	36.18	.7	0.0	8	1.1	0.0
202	23.14	36.51	.7	0.6	0	2.7	
251	18.52	37.42	1.2	0.1	11	3.4	0.4
301	---	36.55	.8		12		
356	---	36.17			21		
406	15.11	36.02	1.4	0.8	0		
456	16.27	35.94	1.3	0.1	30		
506	12.98	35.61	1.6	1.1	31	0.0	
611	10.64	35.30	1.9				0.0

STATION NO. 4-2A-18A

DATE 15 1 1952 LAT: 21°52' N. LONG. 85°03' W. TIME 1911
 Day Mo. Year GCT
 DEPTH 700 MAX. SAMPLE DEPTH 1241 WIRE ANGLE 16 °
 Faths. Meters
 WEATHER 01 SEA 3 SWELL - ° T. 4 ft. 8 sec.
 Code Code Direction Hgt. Period
 CLOUDS Cn AC Cs 4 TEMP. 78.0 °F. 71.9 °F. BAR. 30.14 in.
 Type Amount Dry Wet
 REL. HUM. 75 % WIND 080 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.49	35.96	.9		0		
23	26.46	35.99	.7	0.0	2		
72	26.46	35.91	.7	0.0	1		
96	26.51	36.09	.7	0.0	0	0.1	
151	23.74	36.69	.8	0.1	2		
200	20.99	36.74	.8		8		
300	17.32	36.45	1.4		12		
356	16.15	36.03	1.3		18		
406	15.11	36.08	1.3	0.8	11		0.3
508	13.22	35.77	1.6	1.3	26		0.5
615	10.50	35.31	1.9		32		0.2
717	9.28	35.17	2.2		36		
820	6.94	34.86	2.4	1.8	35	0.4	
959	5.56	34.90	2.3		39		0.2
1087	4.70	34.96	1.8		36		0.0

STATION NO. 4-2A-18A

VALUES AT STANDARD DEPTHS

Depth	Temp. ° C.	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. mg/l	Prot. Mg/l
0	26.49	35.96	23.62	0.9		0		
10	26.47	35.97	23.64	0.8		1		
20	26.46	35.99	23.66	0.7	0.0	2		
30	26.46	35.99	23.66	0.7	0.0	2		
50	26.40	35.96	23.65	0.7	0.0	2		
75	26.45	35.91	23.60	0.7	0.0	1		
100	26.50	36.20	23.80	0.7	0.0	0	0.1	
150	23.74	36.69	25.02	0.8	0.1	2		
200	20.99	36.74	25.84	0.8		8		
250	19.00	36.70	26.34	1.1		10		
300	17.32	36.45	26.57	1.4		12		
400	15.25	36.09	26.77	1.3	0.8	12		0.3
500	13.39	35.80	26.95	1.6	1.3	25		0.5
600	10.73	35.37	27.13	1.9		31		0.2
700	9.50	35.19	27.20	2.1		35		
800	7.26	34.86	27.29	2.4	1.8	35	0.4	
1000	5.27	34.92	27.60	2.1		38		0.1
1200				1.6		23		

STATION NO. 4-2A-19

DATE 16 1 1952 LAT. 22°16' N. LONG. 84°54' W. TIME 0023
 Day Mo. Year GCT
 DEPTH 750 MAX. SAMPLE DEPTH 1100 WIRE ANGLE 23 °
 Faths. Meters
 WEATHER 02 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 9 TEMP. 77.4 °F. 70.0 °F. BAR 30.13 in.
 Type Amount Dry Wet
 REL. HUM. 69 % WIND 060 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.20	35.92	.4		6		
23	26.23	35.98	1.7	0.0	0	0.4	0.5
68	26.23	36.01	.3		2		
92	26.10	36.00	.6		0		
143	23.51	36.44	.8		5		
187	21.72	36.82	.5		9		
275	18.97	36.07	.6		1		
322	17.09	36.34	1.0		14		
365		36.10	1.0		0		
450	14.55	36.52	1.2		9	0.2	
540	12.19	35.90	1.6	1.3	32		
626	9.51	35.14	2.5	1.6	42		
714	8.15	34.98	2.3	1.8	43	0.8	0.1
837	6.27	36.32	.2	0.1	2		0.1
955	5.09	34.88	2.4	1.9	36	3.5	
1100	4.96	34.93	2.5		31		

STATION NO. 4-2A-19

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C.	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.20	35.92	23.69	0.4		6		
10	26.21	35.95	23.70	1.0		3		
20	26.22	35.97	23.72	1.5	0.0	1	0.4	0.5
30	26.23	35.99	23.73	1.5		0		
50	26.23	36.00	23.74	1.2		1		
75	26.18	36.01	23.76	0.4		1		
100	26.00	36.00	23.81	0.6		1		
150	23.35	36.57	25.04	0.7		6		
200	21.14	36.82	25.86	0.5		8		
250	19.55	36.72	26.21	0.6		3		
300	17.90	36.47	26.44	0.8		8		
400	15.46	35.94	26.61	1.1		4	0.2	
500	13.30	35.55	26.78	1.4	1.1	22	0.2	
600	10.10	35.21	27.12	1.9	1.5	39	0.5	
700	8.31	35.00	27.25	2.3	1.8	43	0.8	0.1
800	6.85	34.91	27.39	1.0	0.6	14	1.9	0.1
1000	5.00	34.89	27.61	2.4		34	3.5	

STATION NO. 4-2A-20

DATE 16 1 1952 LAT. 22°53' N. LONG. 84°42' W. TIME 0736
 Day No. Year GCT
 DEPTH 1250 MAX. SAMPLE DEPTH 1973 WIRE ANGLE 20 °
 Faths. Meters
 WEATHER 00 SEA 3 SWELL 090 ° T. 5 ft. 6 sec.
 Code Code Direction Hgt. Period
 CLOUDS -- 0 TEMP. 74.0 °F. 66.8 °F. BAR 30.15 in.
 Type Amount Dry Wet
 REL. HUM. 69 % WIND 090 ° T. 4 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.96	35.91	.8		0		
23	25.99	35.88	.8		1		
70	25.98	35.91	.4		0		
94	25.74	36.02	.6	0.2	0		
141	22.76	36.74	2.3	0.4	7		
189	20.93	36.67	.9		10		
285	17.86	36.33	2.9		13		
382	15.67	35.99	1.6	1.5	20		
480	13.42	35.61	1.3	1.1	33	0.1	
578	10.57	35.18	1.8		32		
677	8.65	35.05	1.8		37		
776	7.23	35.03	2.8	2.1	41		
974	5.34	34.91	2.8		33		
1273	4.47	34.88	2.3				
1573	4.22	34.87	2.9		21		

STATION NO. 4-2A-20

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.96	35.91	23.75	0.8		0		
10	25.97	35.89	23.73	0.8		0		
20	25.99	35.88	23.72	0.8		1		
30	25.99	35.88	23.72	0.7		1		
50	26.00	35.89	23.73	0.6		0		
75	25.90	35.93	23.79	0.4		0		
100	25.70	36.05	23.94	0.8	0.2	1		
150	22.60	36.74	25.39	2.0	0.4	8		
200	20.65	36.64	25.86	1.1		10		
250	18.80	36.45	26.20	2.2		12		
300	17.45	36.28	26.40	2.7		14		
400	15.38	35.93	26.62	1.5	1.4	22	6.9	
500	12.80	35.50	26.84	1.4		33	0.1	
600	10.07	35.14	27.07	1.8		33		
700	8.25	35.04	27.29	2.0		38		
800	6.92	35.02	27.47	2.8	2.1	40		
1000	5.19	34.90	27.60	2.8		33		
1200	4.59	34.88	27.65	2.4		28		
1500	4.27	34.87	27.68	2.8		22		

STATION NO. 4-2A-21

DATE 16 1 1952 LAT. 23°32' N. LONG. 84°32' W. TIME 1928
 Day Mo. Year GCT
 DEPTH 1500 MAX. SAMPLE DEPTH 1608 WIRE ANGLE 8 °
 Faths. Meters
 WEATHER 01 SEA 1 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 4 TEMP. 75.8 °F. 68.2 °F. BAR. 30.21 in.
 Type Amount Dry Wet
 REL. HUM. 68 % WIND 140 ° T. 2 VIS. 9
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	25.44	35.99	.9	0.0	-	0.4	
25	25.38	35.98	2.1	0.0	0	0.8	
75	25.38	36.10	.1	0.0	1	0.3	
100	25.38	36.06	.1	0.0	0		
150	23.66	36.61	.5	0.1	5	0.4	
198	21.13	36.75	.8	0.2	9		
298	17.52	36.38	2.6		-		
398	15.55	36.00	1.8		19		0.0
499	12.57	35.59	5.9	1.6	27		
700	8.13	35.00	2.7	1.7	41	0.8	
901	5.79	34.90	2.5	1.8	29	0.3	
1104	4.81	34.96	2.1		31		
1306	4.34	34.95	3.6		38		
1608	4.22	35.17	3.6	1.6	36		

STATION NO. 4-2A-21

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.44	35.99	23.97	0.9	0.0		0.4	
10	25.40	35.98	23.98	1.4	0.0		0.6	
20	25.39	35.98	23.98	1.9	0.0		0.7	
30	25.38	35.98	23.99	1.9	0.0	0	0.7	
50	25.38	36.03	24.02	1.1	0.0	1	0.6	
75	25.38	36.10	24.08	0.1	0.0	1	0.3	
100	25.38	36.06	24.05	0.1	0.0	0	0.3	
150	23.66	36.61	24.98	0.5	0.1	5	0.4	
200	21.00	36.75	25.84	0.8	0.2	9		
250	19.00	36.64	26.29	1.7		12		
300	17.50	36.37	26.46	2.6		14		
400	15.35	36.00	26.68	1.9		19		0.0
500	12.38	35.59	26.99	4.7	1.6	27		
600	9.98	35.22	27.15	3.7	1.7	34		
700	8.13	35.00	27.27	2.7	1.7	41	0.8	
800	6.84	34.93	27.41	2.6	1.7	35	0.6	
1000	5.31	34.90	27.58	2.3	1.8	30		
1200	4.54	34.93	27.69	2.9	1.8	35		
1500	4.21	35.00	27.79	3.6	1.6	37		
2000				1.9		36		

STATION NO: 4-2A-22

DATE 17 1 1952 LAT. 24°08' N. LONG. 84°10' W. TIME 0304
 Day Mo. Year GCT
 DEPTH 1610 MAX. SAMPLE DEPTH 2204 WIRE ANGLE 7 °
 Faths. Meters
 WEATHER 02 SEA 3 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 5 TEMP. 75.1 °F. 70.8 °F. BAR. 30.16 in.
 Type Amount Dry Wet
 REL. HUM. 80 % WIND 180 ° T. 4 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.65	36.00	.3	0.0	0		0.1
49	26.26	36.25	1.1		0		
98	24.76	35.56	.4	0.1	3		
147	21.99	36.92	.6		7		
196	19.90	36.86	1.1	0.3	9	0.6	
294	15.16	36.18	.4	0.8	24	0.0	
392	12.30	35.63	1.8		26		0.1
487	9.98	35.20			36		
674	6.91	34.94	2.6	1.9	30	1.1	
860	5.44	34.89	2.2		38		
1047	4.62	35.03	1.4	1.4	29	0.3	
1234	4.31	34.99	1.0	1.6	32		
1517	4.20	35.16	2.5	1.5	32	0.0	
1808	4.18	34.97	1.1		34		
2204	4.18	34.97	1.7		29		0.2

STATION NO. 4-2A-22

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.65	36.00	23.60	0.3	0.0	0		0.1
10	26.51	36.06	23.69	0.5	0.0	0		
20	26.42	36.11	23.76	0.6	0.0	0		
30	26.37	36.15	23.81	0.8	0.0	0		
50	26.20	36.27	23.95	1.1	0.1	0		
75	25.75	36.47	24.24	0.8	0.1	2		
100	24.60	36.68	24.75	0.4	0.1	3		
150	21.80	36.92	25.75	0.6	0.2	7		
200	19.60	36.84	26.29	1.1	0.3	10	0.6	
250	17.33	36.59	26.67	0.8	0.6	16	0.3	
300	15.08	36.14	26.85	0.5	0.8	24	0.0	
400	12.10	35.60	27.05	1.8	1.1	27		0.1
500	9.70	35.17	27.16	2.1	1.4	36		
600	8.00	35.00	27.29	2.4	1.7	32		
700	6.71	34.93	27.42	2.6	1.9	31	1.1	
800	5.96	34.89	27.49	2.3	1.7	35	0.9	
1000	4.81	34.92	27.66	1.6	1.5	31	0.4	
1200	4.35	34.98	27.75	1.1	1.6	31	0.2	
1500	4.19	34.97	27.76	2.4	1.5	32	0.0	
2000	4.20	34.97	27.76	1.4		32		0.2

STATION NO: 4-2A-23

DATE 17 1 1952 LAT. 24°38' N. LONG. 83°51' W. TIME 0941
 Day Mo. Year GCT
 DEPTH 320 MAX. SAMPLE DEPTH 543 WIRE ANGLE 25 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS - 0 TEMP. 74.2 °F. 69.5 °F. BAR. 30.14 in.
 Type Amount Dry Wet
 REL. HUM. 80 % WIND 100 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.33	35.92	2.1		0	0.9	
22	25.10	36.18	1.8	0.0	0	2.0	
45	23.64	36.17	2.3	0.0	3	0.4	
67	22.53	36.21	1.7	0.0	0		
89	22.36	36.05	1.9	0.0	2		
137	20.26	36.44	1.5		10		
179	17.36	36.04	2.8	0.6	18	0.1	
221	15.37	35.98	6.2	1.0	16		0.3
263	13.66	36.00	2.6	1.1	25	0.9	0.1
309	13.35	35.66	2.4	1.4	25	1.0	0.1
354	11.12	35.24	6.4	1.4	27	36.0	
398	9.68	35.08	8.6	1.7	37	0.6	
443	8.64	35.05	2.9		40		
543	7.42	34.86	2.8	1.9	39	0.9	

STATION NO. 4-2A-23

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.33	35.92	23.96	2.1	0.0	0	0.9	
10	25.25	36.10	24.12	2.1	0.0	0	1.4	
20	25.10	36.18	24.22	2.0	0.0	0	1.9	
30	24.80	36.18	24.31	2.1	0.0	1	1.4	
50	23.42	36.17	24.72	2.2	0.0	3	0.4	
75	22.65	36.25	25.00	1.8	0.0	1	0.3	
100	21.74	36.37	25.35	1.8	0.2	3	0.3	
150	18.90	36.43	26.16	1.9	0.4	12	0.2	
200	16.45	36.00	26.43	4.1	0.8	17	0.1	0.3
250	14.77	35.91	26.74	3.4	1.1	22	1.3	0.2
300	13.55	35.73	26.86	2.4	1.3	25	1.0	0.1
400	9.60	35.08	27.10	3.2	1.7	37	0.6	
500	7.94	34.98	27.29	2.8	1.8	39	0.8	

STATION NO. 4-2A-25

DATE 17 1 1952 LAT. 24°32' N. LONG. 83°06' W. TIME 1639
 Day No. Year GCT
 DEPTH 15 MAX. SAMPLE DEPTH 20 WIRE ANGLE - °
 Paths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS AC 1 TEMP. 73.7°F. 69.5°F. BAR. 30.22 in.
 type Amount Dry Wet
 REL. HUM. 82 % WIND 050 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	21.77	36.07	.6		3		
10	21.81	36.12	.7		2		
20	21.73	35.84		0.1	1	0.6	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Total σ _t	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	21.77	36.07	25.11	0.6	3		
10	21.81	36.12	25.14	0.7	2		
20	21.73	35.84	24.95		0.1	1	0.6 0.1

STATION NO. 4-2A-26

DATE 19 1 1952 LAT. 24°25' N. LONG. 82°26' W. TIME 1558
 Day Mo. Year GCT

DEPTH 20 MAX. SAMPLE DEPTH 40 WIRE ANGLE 0 °
 Faths. Meters

WEATHER 00 SEA 2 SWELL - °T. - ft. - sec.
 Code Code Direction Hgt. Period

CLOUDS - 0 TEMP. 73.7 °F. 68.9 °F. BAR. 30.10 in.
 Type Amount Dry Wet

REL. HUM. 78 % WIND 050 ° T. 2 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.58	36.18	.8		3		
10	23.54	36.11	1.1		0		
20	23.36	36.24	.4	0.2	2		
30	22.96	36.13	.7	0.0	1	2.9	0.6
40	22.77	36.17	.4		3		0.6

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.58	36.18	24.68	0.8		3		
10	23.54	36.11	24.64	1.1		0		
20	23.36	36.24	24.79	0.4	0.2	2	2.8	
30	22.96	36.13	24.82	0.7	0.0	1	2.9	0.6

STATION NO. 4-2A-27

DATE 19 1 1952 LAT. 24°14' N. LONG. 82°25' W. TIME 1937
 Day Mo. Year GCT
 DEPTH 320 MAX. SAMPLE DEPTH 520 WIRE ANGLE 0 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - °T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 73.0 °F. 69.4 °F. BAR. 30.11 in.
 Type Amount Dry Wet
 REL. HUM. 84 % WIND 050 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.19	36.15	.3	0.1	18		
25	22.56	36.14	.4		4	0.4	
50	22.58	36.08	.3		2		
75	21.68	36.00	.3	0.0	0		
100	15.89	36.12	1.4	1.3	16		0.2
155	13.22	35.66	1.2	1.2	21	0.6	
205	11.68	35.70	1.9		34		
255	10.84	35.34	1.1		22		0.2
305	10.28	35.25	1.3		29		
360	9.41	35.16	2.3		-		
410	8.66	35.00	2.1	1.5	32	0.4	0.2
460	8.16	34.99		1.8	-		-
510	7.75	34.94	2.0		34		0.1
520	7.68	34.93	2.0	2.6	38		

STATION NO. 4-2A-27

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg PO ₄ -P	NO ₃ -N	Carb. mg/l	Prot. Mg/l
0	23.19	36.15	24.77	0.3		18		
10	22.80	36.15	24.88	0.3		12		
20	22.58	36.14	24.94	0.4		7	0.4	
30	22.58	36.13	24.93	0.4	0.1	4	0.4	
50	22.58	36.08	24.89	0.3	0.0	2		
75	21.68	36.00	25.09	0.3	0.0	0		
100	15.89	36.12	26.65	1.4	1.3	16		0.2
150	13.38	35.72	26.89	1.2	1.2	21	0.6	
200	11.86	35.49	27.01	1.8	1.3	33		
250	11.00	35.35	27.07	1.2	1.3	23		0.2
300	10.32	35.26	27.12	1.3	1.4	28		
400	8.84	35.01	27.17	2.1	1.5	32	0.4	0.2
500	7.83	34.95	27.28	2.0	2.3	34		0.1

STATION NO. 4-2A-28

DATE 20 1 1952 LAT. 23°48' N. LONG. 82°20' W. TIME 0030
 Day Mo. Year GCT
 DEPTH 780 MAX. SAMPLE DEPTH 1078 WIRE ANGLE 20 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt Period
 CLOUDS Sc 1 TEMP. 77.2 °F. 70.7 °F. BAR. 30.12 in.
 Type Amount Dry Wet
 REL. HUM. 72 % WIND 090 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	26.12	36.12	.5		1		0.3
22	26.10	35.95	.2	0.0	0	0.6	0.3
49	26.12	36.01	.1	0.0	0	0.3	0.2
70	24.61	36.32	.2		2		
97	22.95	36.31	.2	0.0	0		
149	21.21	37.05	.3	0.2	0	0.4	
192	18.64	36.17	1.0	0.1	3	0.1	
284	15.26	36.02	2.0	0.8	10	0.1	
380	12.28	35.55	1.2		25		
463	9.91	35.40	1.0	1.6	26	0.7	0.1
546	8.44	35.29	2.0		32		
707	6.55	34.86	1.5	1.9	35	1.2	
888	5.37	34.88	2.1		31		0.1
1078	4.81	35.06	1.7		29		0.0

STATION NO. 4-2A-28

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	26.12	36.12	23.86	0.5		0		0.3
10	26.08	36.02	23.80	0.4		1		0.3
20	26.07	35.95	23.75	0.2	0.0	0	0.6	0.3
30	26.10	35.96	23.75	0.2	0.0	0	0.5	0.3
50	26.12	36.02	23.79	0.1	0.0	0	0.3	0.2
75	24.15	36.32	24.62	0.2	0.0	2	0.3	
100	22.95	36.30	24.95	0.2	0.0	0	0.4	
150	21.20	36.23	25.39	0.3	0.2	0	0.4	
200	18.38	36.15	26.08	1.1	0.2	4	0.1	
250	16.48	36.07	26.48	1.6	0.5	7	0.1	
300	14.80	35.96	26.77	1.9	0.9	12	0.2	
400	11.95	35.51	27.01	1.2	1.3	25	0.6	
500	9.18	35.35	27.38	1.4	1.6	29	0.8	0.1
600	7.71	35.14	27.45	1.8	1.8	33	1.0	0.1
700	6.60	34.86	27.38	1.5	1.9	35	1.2	
800	5.96	34.85	27.46	1.8		33		
1000	4.99	34.99	27.69	1.9		30	0.1	

STATION NO. 4-2A-29

DATE 20 1 1952 LAT. 23°33' N. LONG. 82°24' W. TIME 0428
 Day Mo. Year GCT
 DEPTH 920 MAX. SAMPLE DEPTH 1490 WIRE ANGLE 5 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 75.9°F. 71.6°F. BAR. 30.11 in.
 Type Amount Dry Wet
 REL: HUM. 80 % WIND 090 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C.	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	26.03	36.12	.5		0		0.4
25	25.89	36.27	.1	0.0	18	3.9	
50	26.07	35.98	.1	0.1	2	0.6	
75	25.98	36.00	.1		0		
99	25.46	36.26	.2	0.0	0	0.6	
149	22.61	36.82	1.5	0.1	-	0.2	
199	20.04	36.77	.4	0.4	7	0.2	0.1
298	17.02	---			2		
396	14.19	35.91	8.7		3		0.1
495	11.42	35.48	1.3	1.4	28	0.0	0.2
693	9.67	36.83	.3	0.2	7	0.0	
892	5.65	34.97	3.7	1.8	34	0.1	
1191	4.58	35.08	1.6	1.5	29	7.7	0.3
1490	4.22	34.97	1.0	1.3	19		0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.03	36.12	23.89	0.5		0		0.4
10	25.85	36.21	24.01	0.3		7		
20	25.90	36.26	24.04	0.2	0.0	14		
30	25.90	36.27	24.04	0.1	0.0	15	3.2	
50	26.07	35.98	23.77	0.1	0.1	2	0.6	
75	25.98	36.00	23.81	0.1	0.0	0	0.6	
100	25.20	36.28	24.27	0.2	0.0	0	0.6	
150	22.70	36.82	25.42	1.4	0.1	4	0.2	
200	20.00	36.76	26.12	0.4	0.4	7	0.2	0.1
250	18.30	36.54	26.39	2.6		5	0.2	
300	17.03	36.33	26.54	4.7		2	0.1	
400	13.90	35.85	26.88	8.4		3	0.1	0.1
500	11.39	35.47	27.09	1.2	1.4	27	0.0	0.2
600	10.61	35.30	27.10	0.8	0.8	17	0.0	
700	9.50	35.13	27.16	0.4	0.3	8	0.0	
800	7.20	35.00	27.41	2.0	1.2	22	0.0	
1000	5.20	34.97	27.65	2.9	1.7	33	2.5	
1200	4.59	34.97	27.72	1.6	1.5	29	7.7	0.3
1500	(4.20)	(34.97)	27.76		1.3			0.0

() Extrapolated values.

STATION NO. 4-2A-30

DATE 20 1 1952 LAT. 23°12' N. LONG. 82°22' W. TIME 1025
 Day Mo. Year GCT
 DEPTH 550 MAX. SAMPLE DEPTH 1048 WIRE ANGLE 3 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS - 0 TEMP. 68.8 °F. 66.2 °F. BAR. 30.07 in.
 Type Amount Dry Wet
 REL. HUM. 88 % WIND 140 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.24	36.13	.6		0		
10	25.26	36.14	.1	0.0	1		0.5
25	25.34	36.08	.3	0.0	2	1.3	0.3
50	25.26	36.08	.9	0.0	0		
75	25.28	36.35	.9		0		
100	25.28	36.32	.4	0.5	0		0.7
150	23.19	36.83	.2	1.3	7		
200	20.84	36.97	2.8	0.3	8		
299	---	36.44	.6	0.5	11		0.1
399	15.22	36.13	1.8	0.7	16		0.4
499	13.03	35.71	1.7	1.1	28	10.5	
598	10.43	35.43	3.3	1.6	25	0.0	
798	7.11	34.97	2.7	2.1	26		0.2
1048	4.92	35.08	2.7		27		0.1

STATION NO. 4-2A-30

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb Mg/l	Prot. Mg/l
0	25.24	36.13	24.14	0.6		0		
10	25.26	36.14	24.14	0.1	0.0	1		0.5
20	25.30	36.09	24.09	0.2	0.0	2		0.3
30	25.39	36.08	24.06	0.4	0.0	2	1.7	0.3
50	25.26	36.08	24.10	0.9	0.0	0	3.1	
75	25.28	36.35	24.30	0.9	0.3	0	4.8	
100	25.28	36.32	24.27	0.4	0.5	0	6.6	0.7
150	23.19	36.83	25.29	0.2	1.3	7	20.8	
200	20.84	36.97	26.06	2.8	0.3	8	6.0	
250	19.21	36.82	26.37	1.7	0.4	10		
300	17.65	36.42	26.46	0.6	0.5	11		0.1
400	15.22	36.12	26.80	1.8	0.7	16		0.4
500	13.03	35.70	26.95	1.7	1.1	28	10.2	
600	10.40	35.42	27.23	3.3	1.6	25	0.0	
700	8.60	35.17	27.33	3.0	1.9	26		
800	7.05	34.97	27.41	2.7	2.1	26		0.2
1000	5.17	35.03	27.70	2.7		27		0.1

STATION NO: 4-2A-31

DATE 22 1 1952 LAT. 23°15' N. LONG. 83°09' W. TIME 1756
 Day Mo. Year GCT
 DEPTH 1150 MAX. SAMPLE DEPTH 1998 WIRE ANGLE 5 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL 160 ° T. 3 ft. 3 sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 77.5 °F. 71.4 °F. BAR. 30.02 in.
 Type Amount Dry Wet
 REL. HUM: 75 % WIND 160 ° T. 2 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.45	36.13	.8		0		0.2
25	25.29	36.13	.3		2		0.8
50	25.25	36.13	.4	1.0	0	2.5	0.1
75	25.27	36.18	.6	0.1	2		0.0
100	25.12	36.17	.3	0.1	2	0.6	1.8
150	23.59	36.71	.6	0.2	1	0.8	
199	---	36.80	.7		8		0.2
299	17.58	36.85	.9	1.8	10		0.0
399	15.72	36.64	3.5	0.7	19		0.2
598	10.58	35.40	1.7		30		
798	6.88	34.88	2.5		32		0.1
998	5.00	34.92	2.8	1.6	7		
1298	4.33	34.97	1.7		23		0.4
1598	4.19	34.97	3.4	1.4	32		0.3
1998	4.16	36.43	3.9		31		

STATION NO. 4-2A-31

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.45	36.13	24.08	0.8		0		0.2
10	25.40	36.13	24.09	0.6		1		0.4
20	25.30	36.13	24.12	0.4		2		0.7
30	25.26	36.13	24.14	0.3		2		0.7
50	25.25	36.13	24.14	0.4	1.0	0	2.5	0.1
75	25.27	36.18	24.17	0.6	0.1	2	9.1	0.0
100	25.12	36.17	24.21	0.3	0.1	2	0.6	1.8
150	23.59	36.71	25.08	0.6	0.2	1	0.8	
200	20.80	36.80	25.94	0.7	0.7	8		0.2
250	19.00	36.84	26.44	0.8	1.3	9		0.1
300	17.56	36.85	26.81	0.9	1.8	10		0.0
400	15.77	36.64	27.08	3.5	0.7	19	0.0	0.2
500	13.01	36.13	27.28	2.6		25		
600	10.55	35.38	27.17	1.7		30		
700	8.44	35.02	27.24	2.1		31		
800	6.80	34.88	27.37	2.5		32		0.1
1000	4.90	34.92	27.64	2.8	1.6	7		
1200	4.38	34.97	27.74	2.1	1.5	18		0.3
1500	4.20	34.97	27.76	2.8	1.4	29	1.0	0.3
2000	4.15	34.97	27.77	3.9		31		

STATION NO. 4-2A-32

DATE 23 1 1952 LAT. 23°24' N. LONG. 83°55' W. TIME 0032
 Day Mo. Year GCT
 DEPTH 1250 MAX. SAMPLE DEPTH 2192 WIRE ANGLE 9 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 77.0 °F. 71.5 °F. BAR. 29.97 in.
 Type Amount Dry Wet
 REL. HUM. 77 % WIND 090 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.55	36.02	1.1	0.1	0		
24	25.58	36.07	2.2	0.0	0	0.2	0.1
49	25.53	37.83	.2	0.0	0	3.3	
98	25.49	37.32	1.4	0.6	2		0.1
148	23.53	36.69	1.1		4		
197	21.31	37.21	1.3		8		0.2
296	17.54	36.34	1.1		11		0.4
394	14.98	35.95	2.7		18		
493	12.53	35.48		1.1	25		
593	10.38	35.21	2.2	1.7	26		
792	7.00	34.88	2.3	2.0	36	1.5	
1092	4.86	34.88	2.1	1.7	31	0.7	
1392	4.29	35.79	2.0	1.2	37		
1692	4.18	34.94	1.5	1.5	30		
2192	4.17	34.93	1.7	1.4	29		

STATION NO. 4-2A-32

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	25.55	36.02	23.96	1.1	0.1	0		
10	25.55	36.04	23.98	1.6	0.1	0		
20	25.57	36.06	23.99	2.0	0.0	0		0.1
30	25.55	36.09	24.02	1.7	0.0	0	0.9	0.1
50	25.50	36.18	24.10	0.2	0.0	0	3.3	0.1
75	25.50	36.34	24.22	0.8		1		0.1
100	25.48	36.50	24.35	1.4		2		0.1
150	23.45	36.69	25.10	1.1		4		0.2
200	21.17	36.74	25.79	1.3		8		0.2
250	19.10	36.55	26.20	1.2		10		0.3
300	17.33	36.32	26.46	1.1		11		0.4
400	14.79	35.93	26.75	2.7		18		
500	12.39	35.46	26.89	2.5	1.1	25		
600	10.12	35.19	27.10	2.2	1.7	26		
700	8.30	34.99	27.24	2.3	1.9	31		
800	6.88	34.88	27.36	2.3	2.0	36	1.5	
1000	5.44	34.86	27.53	2.1	1.8	33	1.0	
1200	4.51	34.91	27.68	2.0	1.5	33	5.8	
1500	4.25	34.94	27.73	1.8	1.3	34		
2000	4.18	34.94	27.74	1.6	1.4	29		

STATION NO. 4-2A-33

DATE 23 1 1952 LAT. 23°32' N. LONG. 84°32' W. TIME 0658
Day Mo. Year GCT

DEPTH 1570 MAX. SAMPLE DEPTH 2258 WIRE ANGLE 25 °
Faths. Meters

WEATHER 00 SEA 3 SWELL 180 ° T. 3 ft. 3 sec.
Code Code Direction Hgt. Period

CLOUDS - 0 TEMP. 76.6°F. 71.9°F. BAR. 30.00 in.
Type Amount Dry Wet

REL. HUM. 81 % WIND 180 ° T. 3 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.95	35.91	.4		1		
67	25.44	36.08	.3	0.0	0	0.7	0.1
135	24.55	36.41	.6	0.1	3	0.2	
181	25.32	36.76	.8	0.2	8		
226	20.28	36.68	.4	0.2	9		
272	18.78	36.56	.4		18		0.3
364	16.40	36.18	1.0	0.7	19	4.4	
409	15.05	35.99	.9		17		0.1
454	13.55	35.68	1.3	2.0	20		0.2
500	12.25	35.50	1.6		30		
545	11.28	35.39	1.6	2.2	31		
636	9.13	35.09	2.2	1.5	34	0.2	0.2
728	7.40	34.91	2.5	2.4	41		
819	6.36	34.86	2.2	1.8	35		
1094	4.86	34.91	2.4	1.6	33		
1564	4.20	34.95	2.0		24		0.2
2258	4.20	34.94	2.0	2.2	19	1.9	

STATION NO. 4-2A-33

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	25.95	35.91	23.76	0.4		1		
10	25.92	35.93	23.78	0.4		1		
20	25.86	35.95	23.81	0.4		1		
30	25.74	35.98	23.87	0.4		1		
50	25.57	36.03	23.96	0.3		0		
75	25.45	36.13	24.08	0.3	0.0	0	0.6	0.1
100	25.17	36.23	24.24	0.4	0.0	1	0.5	
150	23.90	36.65	24.94	0.7	0.1	5	0.2	
200	21.30	36.74	25.75	0.6	0.2	8	0.2	
250	19.64	36.63	26.12	0.4	0.3	9	0.9	0.3
300	18.26	36.45	26.33	0.6	0.6	11	2.5	0.2
400	15.22	36.02	26.73	0.9	1.2	17	5.6	0.1
500	12.25	35.50	26.95	1.6	2.1	30	7.2	0.2
600	9.94	35.20	27.14	2.0	1.8	33	2.9	0.2
700	7.85	34.94	27.27	2.4	2.1	38		
800	6.52	34.86	27.39	2.1	1.9	36		
1000	5.30	34.88	27.57	2.3	1.7	34		
1200	4.65	34.94	27.69	2.3	1.7	31		
1500	4.25	34.95	27.74	2.1	1.8	25		0.2
2000	4.22	34.95	27.74	2.0	2.0	21	1.9	

STATION NO. 4-2A-34

DATE 23 1 1952 LAT. 23°28' N. LONG. 85°17' W. TIME 1353
 Day Mo. Year GCT
 DEPTH 1370 MAX. SAMPLE DEPTH 2389 WIRE ANGLE 6 °
 Faths. Meters
 WEATHER 01 SEA 2 SWELL - ° T. - ft. - sec.
 Code 1 Code Direction Hgt. Period
 CLOUDS Ci 4 TEMP. 77.5 °F. 72.5 °F. BAR. 30.10 in.
 Type Amount Dry Wet
 REL. HUM. 79 % WIND 135 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	PO ₄ -P
0	26.49	35.86	0.1
10	26.47	35.78	0.0
25	26.50	35.84	0.0
50	26.46	35.89	0.0
75	26.48	35.84	0.0
148	24.24	36.54	0.1
198	20.38	36.80	0.2
248	19.48	36.56	---
297	18.02	36.40	---
396	14.96	35.87	1.0
446	13.84	35.71	1.0
496	12.55	35.46	1.1
545	11.11	35.37	---
595	10.08	35.19	1.4
694	8.45	35.20	1.7
793	6.93	34.82	1.9
893	6.02	34.93	1.7
1192	5.08	36.45	0.4
1690	4.21	34.93	1.5
2389	4.20	34.90	1.7

STATION NO. 4-2A-34

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	PO ₄ -P
0	26.49	35.84	23.55	0.1
10	26.47	35.78	23.49	0.0
20	26.50	35.82	23.52	0.0
30	26.47	35.86	23.56	0.0
50	26.46	35.89	23.58	0.0
75	26.48	35.84	23.54	0.0
100	26.30	36.02	23.73	0.0
150	23.97	36.58	24.87	0.1
200	21.37	36.80	25.78	0.2
250	19.43	36.55	26.11	0.4
300	17.80	36.38	26.40	0.7
400	14.90	35.86	26.67	1.0
500	12.46	35.45	26.87	1.1
600	10.02	35.27	27.18	1.4
700	8.36	35.06	27.29	1.7
800	6.88	34.90	27.38	1.9
1000	5.62	34.90	27.54	1.1
1200	4.99	34.92	27.63	0.4
1500	4.38	34.93	27.71	1.1
2000	4.20	34.92	27.72	1.7

STATION NO. 4-2A-34

DATE 23 1 1952 LAT. 23°28' N. LONG. 85°17' W. TIME 1353
 Day Mo. Year GCT
 DEPTH 1370 MAX. SAMPLE DEPTH 2389 WIRE ANGLE 6 °
 Faths. Meters
 WEATHER 01 SEA 2 SWELL - ° T. - ft. - sec.
 Code 1 Code Direction Hgt. Period
 CLOUDS Si TEMP. 77.5 °F. 72.5 °F. BAR. 30.10 in.
 Cu 4 Type Amount Dry Wet
 REL. HUM. 79 % WIND 135 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Total PO ₄ -P	Inorg. PO ₄ -P	Carb. Mg/l	NO ₃ -N	Prot. Mg/l
0	.5			0	
75	.5	0.0	0.7	3	
148	.9	0.1		4	
198	.9	0.2	0.0	5	0.0
248	.8			12	
297	.8			13	
396	2.3	1.0		26	
446	1.4	1.0		23	
496	1.7	1.1		25	
545	2.1			27	
595	2.6	1.4		36	
694	2.0	1.7	0.4	35	
793	2.2	1.9	4.8	37	
893	3.4	1.7	0.6	32	
1192	.8	0.4		13	
1690	1.9	1.5		32	
2389	2.2	1.7	0.8	34	

STATION NO. 4-2A-34

VALUES AT STANDARD DEPTHS

Depth	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	0.5		0		
10	0.5		0		
20	0.5		1		
30	0.5		1		
50	0.5		2		
75	0.5	0.0	3	0.7	
100	0.6	0.0	3	1.4	0.0
150	0.9	0.1	4	2.8	
200	0.9	0.2	5	0.0	
250	0.8	0.4	12	0.0	
300	0.8	0.6	13	0.1	
400	2.2	1.0	26	0.1	
500	1.7	1.1	25		
600	2.6	1.4	36		
700	2.0	1.7	35	0.4	
800	2.3	1.9	37	4.8	
1000	2.5	1.3	25		
1200	0.8	0.4	13		
1500	1.5	1.1	25		
2000	2.0	1.6	33		

STATION NO. 4-2A-34A

OBSERVED VALUES					
Depth	Total PO ₄ -P	Inorg. PO ₄ -P	Carb. Mg/l	NO ₃ -N	Prot. Mg/l
0	.5	0.1		0	
10	.6	0.0	0.0	-	
25	1.8	0.0	1.8	0	
50	.8	0.0		-	
75	3.2	0.0	0.2	0	
100	.4	0.0		0	
150	.4			6	

VALUES AT STANDARD DEPTHS					
Depth	Total PO ₄ -P	Inorg. PO ₄ -P	Carb. Mg/l	NO ₃ -N	Prot. Mg/l
0	0.5	0.1		0	
10	0.6	0.0	0.0	0	
20	1.4	0.0	1.2	0	
30	1.6	0.0	1.6	0	
50	0.8	0.0	1.0	0	
75	3.2	0.0	0.2	0	
100	0.4	0.0		0	
150	0.4			6	

STATION NO. 4-2A-35

DATE 23 1 1952 LAT. 23°30' N. LONG 85°59' W. TIME 2153
 Day Mo. Year GCT
 DEPTH 1850 MAX. SAMPLE DEPTH 457 WIRE ANGLE 39° °
 Faths. Meters
 WEATHER 02 SEA 2 SWELL - ° T. - ft. - sec.
 Code 1 Code Direction Hgt. Period
 CLOUDS Cl 6 TEMP. 78.5 °F. 72.0 °F. BAR. 30.05 in.
 Type Amount Dry Wet
 REL. HUM. 73 % WIND 100 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.60	35.84	.4	0.1	0		
20	---	35.82	.7	0.1	4		
40	26.40	35.89	.3	0.0	0		
65	---	35.72	.5	1.0	0		
77	25.92	36.19	.5	0.0	5	0.3	
114	--	36.20	1.0	0.2	5		
152	19.80	36.74	.5		8		
188	19.35	36.63	1.1	0.0	9	0.2	
225	18.28	36.49	.7	1.1	12		
261	17.36	36.19	2.8	0.4	13		
294	16.20	35.34	1.0		15		0.2
327	14.82	35.91	1.2	1.1	20		
357	14.06	35.84	1.4	1.0	10		
385	13.27	35.66	1.9	0.9	27	4.0	
411	12.23	35.52	1.6	1.3	24		
457	10.64	35.31	2.0	2.2	38		
543	8.88	35.34	2.2	1.6	34	0.0	
711	7.46	34.96	2.1	1.7	39		0.4
921	5.66	34.95	2.2	1.6	36	5.7	
1295	4.35	34.99	2.1	1.4	31		

STATION NO: 4-2A-35

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	26.60	35.84	23.50	0.4	0.1	0		
10	26.58	35.83	23.50	0.6	0.1	2		
20	26.50	35.82	23.52	0.7	0.1	4	0.1	
30	26.45	35.85	23.55	0.5	0.1	2	0.4	
50	26.30	35.87	23.62	0.4	0.4	0	1.0	
75	25.90	35.90	23.76	0.5	0.2	4	0.3	
100	25.08	36.20	24.24	0.8	0.1	5	0.3	
150	21.23	36.74	25.77	0.5	0.1	8	0.2	
200	19.05	36.59	26.24	1.0	0.4	10	1.3	
250	17.68	36.30	26.36	2.2	0.6	13	3.4	
300	15.92	36.00	26.55	1.0	0.8	16	3.6	0.2
400	12.75	35.59	26.92	1.7	1.1	25	3.5	
500	9.83	35.22	27.17	2.1	1.9	36	1.1	
600	8.37	35.07	27.29	2.2	1.6	36	0.6	
700	7.54	34.96	27.33	2.1	1.7	39	1.7	0.3
800	6.68	34.95	27.44	2.1	1.7	38	3.5	
1000	5.23	34.95	27.63	2.2	1.6	35		
1200	4.53	34.96	27.72	2.1	1.5	32		

STATION NO. 4-2A-36

DATE 24 1 1952 LAT. 23°28' N. LONG. 86°43' W. TIME 0611
 Day Mo. Year GCT
 DEPTH 590 MAX. SAMPLE DEPTH 1035 WIRE ANGLE 15 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS - 0 TEMP. 78.5°F. 72.5°F. BAR. 30.15 in.
 Type Amount Dry Wet
 REL. HUM. 75 % WIND 080 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. ° C.	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.44	35.96	.5		0		
10	---	35.95	.3	0.0	3	0.5	
24	24.09	36.23	.4		2		
48	21.68	36.48	.6	0.2	7		
72	18.64	36.48	.7		10		
96	17.32	36.35	1.1	0.5	14		
144	15.56	36.11	1.6		22		
192	13.99	35.73	1.3	1.0	11		
241	12.45	35.70	1.6		8		
290	10.49	35.45	2.5	1.6	35	0.6	
339	9.33	35.08	2.1	1.8	10	0.2	
388	7.84	35.02	2.2	2.6	9		0.6
487	7.14	35.16	1.9		35		
586	6.32	35.28	1.9	1.8	40		
786	5.30	34.93	1.7	1.6	35		
1035	4.26	35.03	2.7		34		

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prd. Mg/l
0	24.44	35.96	24.26	0.5		0		
10	24.33	35.95	24.28	0.3	0.0	3	0.5	
20	24.15	36.10	24.45	0.4	0.1	2		
30	23.85	36.37	24.74	0.5	0.1	3		
50	20.25	36.48	25.84	0.6	0.2	7		
75	18.45	36.48	26.31	0.8	0.4	11		
100	17.00	36.33	26.55	1.1	0.5	15		
150	15.40	36.07	26.72	1.6	0.8	21		
200	13.80	35.66	26.76	1.3	1.0	10	12.0	
250	12.15	35.36	26.86	1.8	1.4	13		
300	10.23	35.19	27.08	2.4	1.6	30	0.5	
400	8.28	35.01	27.26	2.2	2.6	12		0.6
500	7.00	34.98	27.42	1.9	2.2	36		
600	6.22	34.96	27.51	1.9	1.8	40	2.7	
700	5.71	34.94	27.56	1.8	1.7	37		
800	5.23	34.93	27.61	1.8		35		
1000	4.39	35.00	27.77	2.6				

STATION NO. 4-2A-37

DATE 24 1 1952 LAT. 24°31' N. LONG. 85°54' W. TIME 1826
 Day Mo. Year GCT
 DEPTH 1850 MAX. SAMPLE DEPTH 2362 WIRE ANGLE 20 °
 Faths. Meters
 WEATHER 02 SEA - SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Cu 5 TEMP. 73.3 °F. 70.2 °F. BAR. 30.17 in.
 Type Amount Dry Wet
 REL. HUM. 86 % WIND 045 ° T. 5 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.00	34.36	.4	0.0	0		
23	23.04	36.44	.3	0.0	0	0.0	
46	22.21	36.18	.5	0.0	0	0.8	
70	20.45	36.55	.7		10		
94	18.20	36.35	1.2	0.8	17		
141	15.96	36.29	1.1		17		
188	14.54	36.04	1.1	0.9	25	1.5	
236	12.72	36.09	1.6	1.2	27		
284	23.61	35.33	.6	0.0	4		
332	10.66	35.16	1.7		36		
380	9.83	35.01	1.7		31		
478	8.23	34.94	1.7	1.8	38		0.0
575	7.05	35.66	1.9	2.0	17		
870	5.08	34.95	1.9	1.9	20		
1166	4.36	34.99	1.6	1.5	27		0.4
1664	4.18	35.01	1.6	1.9	-	0.4	
2362	4.20	34.95	2.5	1.3	24	0.2	

STATION NO. 4-2A-37

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.00	34.36	22.57	0.4	0.0	0		
10	25.50	35.70	23.74	0.4	0.0	0		
20	23.70	36.35	24.77	0.3	0.0	0	0.0	
30	22.90	36.46	25.09	0.4	0.0	0	0.2	
50	21.90	36.53	25.43	0.5	0.1	2	0.8	
75	20.01	36.55	25.96	0.8	0.5	11	1.0	
100	18.00	36.34	26.32	1.2	0.8	17	1.1	
150	15.75	36.28	26.81	1.1	0.9	19	1.3	
200	13.85	35.90	26.93	1.2	1.0	26		
250	12.37	35.53	26.95	1.3	0.8	20		
300	11.38	35.28	26.94	1.0	0.1	15		
400	9.50	34.98	27.04	1.7	1.1	32		
500	7.97	34.94	27.25	1.7	1.8	32		0.0
600	6.84	34.94	27.41	1.9	2.0	12		
700	6.11	34.94	27.51	1.9	2.0	15		
800	5.44	34.94	27.60	1.9	1.9	19		
1000	4.68	34.97	27.71	1.8	1.7	23		
1200	4.28	34.99	27.77	1.6	1.5	27		0.4
1500	4.18	35.01	27.80	1.6	1.8	26	0.4	
2000	4.18	34.99	27.78	2.0	1.6	25		

STATION NO. 4-2A-38

DATE 25 1 1952 LAT. 25°00' N. LONG. 86°00' W. TIME 0112
 Day Mo. Year GCT
 DEPTH 1820 MAX. SAMPLE DEPTH 1038 WIRE ANGLE 45 °
 Faths. Meters
 WEATHER - SEA - SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 4 TEMP. 71.3°F. 68.6°F. BAR. 30.22 in.
 Type Amount Dry Wet
 REL. HUM. 88 % WIND 090 ° T. 5 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.22	36.41	.6	-	0		
18	23.22	36.25	.6	0.3	0	0.0	
36	23.03	36.32	.4	0.1	0	2.8	
53	22.43	36.44	1.1	1.0	0		
70	21.78	36.45	.7	0.1	5		
104	18.57	36.18	1.1	0.5	5	1.3	
139	16.54	36.03	1.0	0.9	18		0.4
173	15.36	35.71	1.1		12		0.0
208	13.83	36.42	1.7	1.0	23		
241	12.52	35.57	1.4	1.0	25		0.1
274	11.60	35.39		1.1	26	2.2	
337	9.52	35.10	1.6	1.6	33	1.9	
395	8.22	35.01	4.3	1.7	42	1.2	0.4
568	6.50	35.08	2.1	1.8	37	1.0	
741	---	36.21	1.3	1.9	15	1.7	
1038	5.30	34.89	1.8	0.7	37		

STATION NO: 4-2A-38

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.22	36.41	24.96	0.6		0		
10	23.22	36.31	24.88	0.6		0		
20	23.20	36.25	24.84	0.6	0.3	0	0.3	
30	23.14	36.21	24.83	0.5	0.1	0	1.9	
50	22.80	36.43	25.09	1.0	0.8	0	2.6	
75	21.15	36.45	25.57	0.8	0.2	5	1.9	
100	19.00	36.30	26.03	1.1	0.4	5	1.3	
150	16.25	35.90	26.40	1.1	0.9	16	1.5	0.3
200	14.25	35.64	26.65	1.6	1.0	21	1.8	
250	12.49	35.55	26.94	1.4	1.0	25	2.1	0.1
300	10.87	35.21	26.98	1.5	1.3	29	2.1	0.3
400	8.21	35.01	27.27	4.2	1.7	42	1.2	0.4
500	7.11	34.96	27.39	3.0	1.8	39	1.1	
600	6.32	34.93	27.48	2.0	1.8	33	1.2	
700	6.03	34.91	27.50	1.5	1.9	20	1.5	
800	5.72	34.90	27.53	1.4	1.7	20		
1000	5.35	34.89	27.57	1.7	0.9	34		

STATION NO. 4-2A-39

DATE 25 1 1952 LAT. 25°35' N. LONG. 86°13' W. TIME 0927
 Day Mo. Year GCT
 DEPTH 1750 MAX. SAMPLE DEPTH 589 WIRE ANGLE 60 °
 Faths. Meters
 WEATHER 01 SEA 4 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 3 TEMP. 74.0 °F. 70.1 °F. BAR. 30.20 in.
 Type Amount Dry Wet
 REL. HUM. 82 % WIND 140 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	25.32	35.95	.7	0.0	0		
18	24.37	35.97	.3	0.0	0		
37	25.32	36.13	.3	0.0	2	0.4	
72	25.15	36.08	1.2	0.0	0		
138	23.26	36.67	.8		7		0.2
198	20.64	36.74	.8	0.3	10		
257	18.12	36.43	1.0	0.4	0	5.6	0.3
319	15.04	35.94	1.2	0.8	18	2.0	0.7
358	14.72	35.91	1.0	0.9	13		
406	13.18	35.70	1.9	1.2	23	0.8	
451	10.84	35.30	2.1	1.5	31		
488	9.37	36.04	3.7	0.3	4	0.6	
589	8.94	35.17	2.1	1.7	27	0.4	0.2

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.32	35.95	23.98	0.7	0.0	0		
10	25.31	35.96	23.99	0.5	0.0	0		
20	25.31	35.97	24.00	0.3	0.0	0		
30	25.30	36.05	24.06	0.3	0.0	1	0.4	
50	25.28	36.12	24.12	0.6	0.0	1		
75	25.14	36.08	24.13	1.2	0.0	0		
100	24.60	36.81	24.85	1.1	0.1	3		
150	22.95	36.67	25.23	0.8	0.2	6		0.2
200	20.65	36.74	25.93	0.8	0.3	10		0.3
250	18.50	36.51	26.32	1.0	0.4	1	5.6	0.3
300	15.50	36.02	26.66	1.1	0.7	13	3.1	0.6
400	13.38	35.76	26.92	1.8	1.2	22	0.8	
500	9.25	35.24	27.28	3.5	0.5	6	0.6	

STATION NO. 4-2A-40

DATE 25 1 1952 LAT. 26°05' N. LONG. 86°05' W. TIME 1906
 Day Mo. Year GCT
 DEPTH 1700 MAX. SAMPLE DEPTH 2575 WIRE ANGLE 15 °
 Faths. Meters
 WEATHER 02 SEA 4 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 6 TEMP. 75.8 °F. 70.6 °F. BAR. 30.18 in.
 Type Amount Dry Wet
 REL. HUM. 78 % WIND 100 ° T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.10	36.10	.6	0.2	7	2.9	
25	25.03	36.14	.3	0.0	0	0.2	
49	--	36.11	.2	0.0	0		
73	25.04	36.09	.5		1		0.0
98	25.05	36.65	.2	0.0	2	0.9	0.2
146	23.83	36.27	1.0	0.9	5	0.0	0.0
194	21.49	36.40		0.1	3	0.4	
243	19.54	36.37	.5	0.2	10	1.2	
292	18.24	36.40	.6	0.4	12	1.8	
341	17.02	36.09	1.0	0.6	13		
390	15.90	35.87	.9	0.6	19		
440	14.60	35.60	1.4	1.1	16		0.1
489	13.30	34.79	1.4	1.0	10		
586	11.10	34.79	1.7	1.5	28		0.3
872	6.42	34.91	.8	1.9	33		
1278	17.48	36.27	1.1	0.5	13	0.2	
1775	4.25	35.11	1.9	1.4	32		
2575	4.22	34.98	2.0	1.4	28		0.2

STATION NO. 4-2A-40

Depth	VALUES AT STANDARD DEPTHS							Prot. Mg/l
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	
0	25.10	36.10	24.16	0.6	0.2	7	2.9	
10	25.10	36.12	24.18	0.5	0.1	4	1.8	
20	25.08	36.14	24.20	0.4	0.0	1	0.7	
30	25.05	36.13	24.20	0.3	0.0	0	0.2	
50	25.03	36.10	24.18	0.4	0.0	0		
75	25.03	36.09	24.18	0.5	0.0	1		0.0
100	25.04	36.65	24.60	0.2	0.0	2	0.9	0.2
150	23.50	36.28	24.78	1.0	0.8	5	0.0	0.0
200	21.00	36.40	25.58	0.8	0.1	4	0.4	
250	19.35	36.37	25.99	0.5	0.2	10	1.3	
300	18.14	36.39	26.32	0.7	0.4	12	1.8	
400	15.65	35.84	26.49	1.0	0.7	18	0.2	0.1
500	13.13	35.20	26.54	1.4	1.1	12	1.2	
600	10.88	34.96	26.79	1.7	1.5	28	0.5	0.3
700	9.22	34.92	27.04	1.3	1.7	30		
800	7.47	34.91	27.30	1.0	1.8	32		
1000	5.65	34.92	27.55	0.9	1.4	27		
1200	4.89	34.95	27.67	1.0	0.8	17	0.2	
1500	4.33	34.98	27.76	1.5	0.9	21		
2000	4.23	34.98	27.77	1.9	1.4	31		
2500	4.22	34.98	27.77	2.0	1.4	28	0.5	0.2

STATION NO. 4-2A-41

DATE 26 1 1952 LAT. 27°00' N. LONG. 85°57' W. TIME 0428
 Day Mo. Year GCT
 DEPTH 1700 MAX. SAMPLE DEPTH 2195 WIRE ANGLE 25 °
 Faths. Meters
 WEATHER 01 SEA 3 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS St 3 TEMP. 75.0°F. 70.6°F. BAR. 30.20 in.
 Type Amount Dry Wet
 REL. HUM. 80 % WIND 110 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.10	36.07	.6	0.1	0		
23	25.07	36.05	1.2	0.1	6	1.9	
45	---	36.04	1.4	0.1	1	1.8	0.8
68	24.37	36.27	2.2	0.0	0		
90	24.03	36.43	1.0	0.0	3		
135	22.55	36.78	3.1	0.2	6	2.4	
180	20.64	36.68	3.4	0.3	9		0.3
224	17.37	36.21	3.3	0.7	15		
268	15.72	36.05	4.1	0.9	16	0.0	0.0
311	14.13	35.81	3.9	1.0	25	0.7	
354	12.80	36.48	3.8	0.0	0		
395	---	36.07	3.2	0.8	26		
436	10.90	35.45	4.3	1.5	24	0.4	
516	9.32	35.16	3.2	1.6	35		
760	6.34	34.97	2.5	1.7	33		
1084	5.11	34.94	2.9	1.6	33	0.0	
1490	4.22	35.02	2.1	1.4	25		
2195	4.19	35.02	5.8	1.3	34		

STATION NO. 4-2A-41

Depth	VALUES AT STANDARD DEPTHS							Carb. Mg/l	Prot. Mg/l
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N			
0	25.10	36.07	24.14	0.6	0.1	0			
10	25.09	36.06	24.13	0.9	0.1	2			
20	25.08	36.05	24.13	1.1	0.1	5			
30	25.02	36.04	24.14	1.3	0.1	4	1.9		
50	24.90	36.05	24.19	1.6	0.1	1	1.8	0.8	
75	24.25	36.37	24.62	1.8	0.0	1			
100	23.90	36.60	24.90	1.5	0.0	4			
150	22.25	36.77	25.51	3.2	0.2	7	2.1		
200	18.95	36.53	26.22	3.4	0.5	12	1.2	0.2	
250	16.33	36.11	26.54	3.7	0.8	16	0.3	0.1	
300	14.62	35.88	26.75	3.9	1.0	23	0.5		
400	11.65	35.55	27.10	3.3	0.9	26	0.4		
500	9.66	35.20	27.19	3.4	1.6	33			
600	8.18	35.05	27.31	3.0	1.6	34			
700	6.92	34.99	27.44	2.7	1.7	33			
800	6.08	34.96	27.53	2.6	1.7	33			
1000	5.06	34.95	27.65	2.8	1.6	33	0.0		
1200	4.52	34.97	27.73	2.7	1.5	31			
1500	4.23	35.02	27.80	2.2	1.4	25			
2000	4.20	35.03	27.81	4.8	1.3	32			

STATION NO. 4-2A-42A*

DATE 26 1 1952 LAT. 27°35' N. LONG. 85°46' W. TIME 1408
 Day Mo. Year GCT
 DEPTH 1775 MAX. SAMPLE DEPTH 2158 WIRE ANGLE 5 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 1 TEMP. 73.3 °F. 69.3 °F. BAR. 30.20 in.
 Type Amount Dry Wet
 REL. HUM. 82 % WIND 180 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰
0	23.05	36.46
10	23.05	36.25
40	22.82	36.49
75	20.97	36.71
100	18.61	36.01
150	15.90	36.13
200	13.98	35.84
250	12.60	35.59
300	11.22	35.43
400	13.73	36.51
450	8.54	35.08
500	7.69	35.05
700	5.87	35.07
900	4.99	34.95
1200	4.33	34.98
1471	4.80	35.01
2158	4.20	35.30

* See note on Station 4-2A-42.

STATION NO. 4-2A-42 *

Depth	OBSERVED VALUES				
	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	3.2	0.1	1		
23	3.3	0.1	0	0.0	
47	.8	0.1	0		
71	1.4	0.2	36		
96	2.1	0.4	12		0.2
143	1.9	1.0	19		
189	.9	0.1	1	0.6	
234	1.4	0.4	10		0.5
278	.4	0.7	12		
321	.9	0.9	22		
364	2.3	1.1	21		0.3
405	6.4	0.1	0	0.2	
446		1.2	20		
526	7.5	1.5	20	0.8	
761	3.4	1.8	36		
1076	2.9	1.4	9	3.6	
1471	.3	2.3	18		0.3
2158		1.4	31	0.7	

*There were two casts made at this station, the first including all depths except 47, 1471, and 2158 meters. In this tabulation the values for the latter depths are included in series, and corrected depths are used. This is the same station as Station 42A which is included in the previous table as it appears in the Texas A. and M. reports.

STATION NO. 4-2A-42

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.05	36.46	25.05	3.2	0.1	1		
10	23.05	36.25	24.89	3.2	0.1	1		
20	22.95	36.26	24.92	3.3	0.1	0		
30	22.88	36.38	25.03	3.0	0.1	0	0.0	
50	22.74	36.56	25.21	2.2	0.1	5	0.1	
75	20.97	36.71	25.82	1.5	0.2	32	0.2	
100	18.79	36.61	26.32	2.1	0.5	13	0.3	0.2
150	15.90	36.13	26.66	1.7	0.9	16	0.4	
200	13.98	35.84	26.86	1.0	0.2	3	0.6	
250	12.60	35.59	26.95	1.0	0.5	11	0.5	0.5
300	11.22	35.43	27.09	0.6	0.8	17	0.4	0.4
400	9.37	35.18	27.22	5.9	0.2	3	0.2	0.3
500	7.69	35.05	27.38	7.3	1.4	20	0.8	
600	6.58	34.98	27.48	6.2	1.6	25		
700	5.87	34.94	27.54	4.5	1.7	32		
800	5.38	34.94	27.60	3.3	1.7	33		
1000	4.70	34.96	27.70	3.0	1.5	16	3.6	
1200	4.33	34.98	27.76	2.5	1.7	12		
1500	4.20	35.01	27.79	1.5	2.3	19		0.3
2000	4.20	35.03	27.81		1.5	28	0.7	

STATION NO. 4-2A-43

DATE 26 1 1952 LAT. 28°10' N. LONG. 86°00' W. TIME 2049
 Day Mo. Year GCT
 DEPTH 375 MAX. SAMPLE DEPTH 595 WIRE ANGLE 10 °
 Faths. Meters
 WEATHER 00 SEA 3 SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Cu 4 TEMP. 74.5 °F. 71.4 °F. BAR. 30.12 in.
 Type Amount Dry Wet
 REL. HUM. 86 % WIND 135 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.88	36.35	1.2	0.4	11		
10	22.82	36.07	1.2	0.6	15		
25	22.79	36.40	6.3				0.0
50	22.77	36.42	1.1				
75	21.07	36.15	1.4				
99	19.70	36.48	1.3				
124	17.86	36.31	1.9	0.8			
148	15.98	36.04	.1	1.9	16	0.2	
198	14.40	35.99	.7		10		0.4
247	---	36.36	3.0		3		
296	11.08	35.37	2.6	1.5	2		
396	8.88	35.06	3.7	1.8	37		
496	7.54	34.96	3.9	1.9	26		
595	6.25	34.81	3.9	2.0	35		

STATION NO. 4-2A-43

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.88	36.35	25.01	1.2	0.4			
10	22.82	36.07	24.82	1.2	0.6	0		
20	22.78	36.35	25.04	4.5		0		0.0
30	22.78	36.41	25.09	5.2		1		0.0
50	22.77	36.42	25.10	1.1		4		
75	21.07	36.51	25.64	1.4		4		
100	19.70	36.48	25.99	1.3		11		
150	16.00	36.04	26.56	0.1	1.9	16		
200	14.38	35.99	26.89	0.8	1.8	10		0.4
250	12.67	35.76	27.07	3.0	1.6	3		
300	11.02	35.35	27.06	2.6	1.5	4		
400	8.85	35.05	27.20	3.7	1.8	37		
500	7.47	34.95	27.33	3.9	1.9	26		
600				3.9	2.0			

STATION NO. 4-2A-44

DATE 27 1 1952 LAT. 28°10' N. LONG. 86°45' W. TIME 0359
 Day Mo. Year GCT
 DEPTH 1000 MAX. SAMPLE DEPTH 1836 WIRE ANGLE 22 °
 Faths. Meters
 WEATHER 01 SEA - SWELL - ° T. - ft. - sec.
 Code Code Direction Hgt. Period
 CLOUDS Sc 3 TEMP. 73.7°F. 70.8°F. BAR. 30.11 in.
 Type Amount Dry Wet
 REL. HUM. 86 % WIND 140 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	23.00	36.38	1.2	0.0	0		
23	22.89	36.34	3.6	0.0	1		0.2
47	22.52	36.36	2.0	0.0	1	2.7	
70	22.19	36.36	3.5	1.3	3		
93	20.18	36.44	1.2	0.3	9		0.1
163	16.37	36.16	1.8		14		0.2
232	13.81	35.73	1.8	0.9	20		0.5
302	11.79	35.42	3.0	1.4	26		
372	10.01	35.19	2.1	1.6	30		0.0
442	8.91	35.23	1.2	1.7	31	0.2	
513	8.28	35.26	1.3	1.9	33	0.9	
655	6.29	34.94	1.7		36		
943	5.01	35.06	1.6	1.7	32		0.0
1234	4.32	35.13		1.5	26	2.6	
1537	5.41	35.19		0.1	2	1.9	1.4
1836	4.20	36.60		1.5	24	1.5	0.4

STATION NO. 4-2A-44

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.00	36.38	25.00	1.2	0.0	0		
10	22.95	36.36	25.00	2.2	0.0	0		
20	22.90	36.34	25.00	3.3	0.0	1		0.2
30	22.80	36.34	25.03	3.1	0.0	1		0.2
50	22.50	36.36	25.13	2.1	0.2	1	2.7	
75	21.95	36.36	25.28	2.9	1.1	4		
100	19.75	36.44	25.94	1.3	0.3	9		0.1
150	17.00	36.36	26.57	1.7	0.5	13		0.2
200	15.00	35.90	26.68	1.8	0.8	17		0.4
250	13.32	35.65	26.85	2.1	1.0	22		
300	11.85	35.45	26.99	3.0	1.4	26		
400	9.56	35.13	27.15	1.7	1.6	30		0.0
500	8.47	35.02	27.24	1.3	1.9	33	0.8	
600	7.00	34.95	27.40	1.5	1.9	35		
700	6.00	34.94	27.53	1.7	1.8	35		
800	5.55	34.95	27.59	1.6	1.8	34		
1000	4.78	34.99	27.71		1.7	31		0.0
1200	4.31	---	---		1.5	27		
1500	4.30	---	---		0.3	5	2.0	1.4

STATION NO. 4-2A-45

DATE 27 1 1952 LAT. 28°02' N. LONG. 87°29' W. TIME 1114
 Day Mo. Year GCT
 DEPTH 1490 MAX. SAMPLE DEPTH 2442 WIRE ANGLE 14 °
 Faths. Meters
 WEATHER 00 SEA 2 SWELL 120 ° T. 3 ft. 6 sec.
 Code Code Direction Hgt. Period
 CLOUDS 1 TEMP. 73.2 °F. 70.7 °F. BAR. 30.00 in.
 Type Amount Dry Wet
 REL. HUM. 88 % WIND 180 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.50	36.15		0.2	0		
10	---	36.13	0.7	0.0	4		
24	22.47	36.15	1.0	0.1	2		
48	22.79	36.71	1.0	0.1	2		
72	20.78	35.86	0.6	0.0	4	1.3	
96	21.01	36.64	0.9	0.3	6	1.1	0.2
144	16.92	36.41	1.0	0.6	17	0.0	
215	13.64	35.90	1.6	1.1	20	0.7	0.6
286	11.50	35.96	1.1	1.2	24		
357	10.02	35.43	1.3	1.4	29	1.5	
427	---	36.30	1.2	0.6	18	1.1	
496	13.88	35.72	1.4	1.1	22	1.2	0.1
565	10.53	35.41	1.4	1.5	33	0.0	
634	9.31	35.08	1.4	1.8	34		
794	6.36	34.88	1.3	1.9	34		
1158	4.46	34.94	2.7	1.4	35	0.3	
1666	4.19	35.10	2.0	1.5	27	0.6	
2442	4.21	35.10	2.0		27		0.0

STATION NO. 4-2A-45

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot Mg/1
0	22.50	36.15	24.97	-	0.2	0		
10	22.40	36.13	24.98	.7	0.0	4		
20	22.45	36.16	24.99	.9	0.1	3		
30	22.70	36.38	25.09	1.0	0.1	2		
50	22.40	36.71	25.42	1.0	0.1	2	1.9	
75	20.86	36.68	25.83	.7	0.0	4	1.3	
100	20.00	36.63	26.02	.9	0.3	7	1.0	0.2
150	16.70	36.38	26.66	1.0	0.6	17	0.1	
200	14.25	36.00	26.92	1.5	1.0	19	0.6	
250	12.45	35.70	27.06	1.4	1.1	22	3.4	0.5
300	11.11	35.52	27.18	1.1	1.2	25	5.3	
400	9.40	35.15	27.19	1.2	0.9	22	1.3	
500	7.99	34.97	27.27	1.4	1.1	23	1.1	0.1
600	6.65	34.89	27.40	1.4	1.7	34		
700	5.85	34.88	27.50	1.4	1.8	34		
800	5.32	34.88	27.56	1.3	1.9	34		
1000	4.70	34.90	27.65	2.1	1.6	35		
1200	4.40	34.95	27.73	2.7	1.4	34	0.3	
1500	4.21	35.06	27.83	2.2	1.5	30	0.5	
2000	4.19	35.11	27.87	2.0		27		

STATION NO. 4-2A-46

DATE 27 1 1952 LAT. 27°58' N. LONG. 88°15' W. TIME 1828
 Day Mo. Year GCT
 DEPTH 1300 MAX. SAMPLE DEPTH 2148 WIRE ANGLE 22 °
 Faths. Meters
 WEATHER 01 SEA 4 SWELL - ° T. 8 .ft. 5 sec.
 Code Code Direction Hgt. Period
 CLOUDS Cu 2 TEMP. 78.2 °F. 74.1 °F. BAR. 29.97 in.
 Type Amount Dry Wet
 REL. HUM. 83 % WIND 180 ° T. 4 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.52	36.35	0.9	0.1	1		0.2
9	23.48	36.36	0.5	0.1	2		0.1
23	--	36.43	0.5	0.0	0	1.8	
46	22.57	36.26			3		0.3
69	22.58	36.51	0.6	0.1	2	0.0	
92	22.56	37.03	1.0		1		0.2
137	21.67	36.22	1.4	0.2	7		0.0
205	17.25	36.17	1.9	0.6	14		0.3
273	14.30	35.52	2.0	1.1	20		
340	12.10	35.68	1.2	1.4	23	3.0	
408	23.15	35.34	1.6	0.0	20	2.7	0.1
476	13.79	35.30	1.3	1.3	7	0.3	1.0
544	7.72	35.13	1.1	1.4	-		
611	6.98	35.01	1.3	1.8	34		
770	5.74	36.52	1.5	1.8	38		
1135	4.53	36.64	1.7	1.5	33	0.6	
1510	6.71	---	1.1	0.3	11	0.6	
2148	4.18	35.25	1.3	1.5	33	2.8	

STATION NO. 4-2A-46

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.52	36.35	24.82	0.9	0.1	1	6.6	0.2
10	23.30	36.37	24.90	0.5	0.1	2	4.5	0.1
20	22.90	36.41	25.05	0.5	0.0	0	2.4	0.2
30	22.65	36.45	25.15	0.5	0.0	1	1.5	0.2
50	22.60	36.48	25.19	0.6	0.1	3	0.7	0.3
75	22.60	36.51	25.21	0.7	0.1	2	0.2	
100	22.50	36.42	25.17	1.1	0.1	2	0.9	0.2
150	20.95	36.22	25.45	1.5	0.3	8	2.0	0.0
200	17.65	36.18	26.28	1.9	0.6	13		0.3
250	15.13	36.06	26.78	2.0	0.9	18		
300	13.35	35.85	27.00	1.7	1.2	21	2.8	
400	10.50	35.38	27.18	1.5	0.2	20	2.8	0.1
500	8.45	35.24	27.41	1.2	1.3	12		1.0
600	7.13	35.03	27.44	1.2	1.7	32		
700	6.22	(34.94)	27.50	1.4	1.8	36		
800	5.53	(34.94)	27.59	1.5	1.8	38		
1000	4.87	(34.99)	27.70	1.6	1.6	35		
1200	4.48	--	--	1.6	1.3	29	0.6	
1500	4.41	--	--	1.1	0.3	12	0.6	
2000	4.30	--	--	1.3	1.2	28	2.3	

() Extrapolated values.

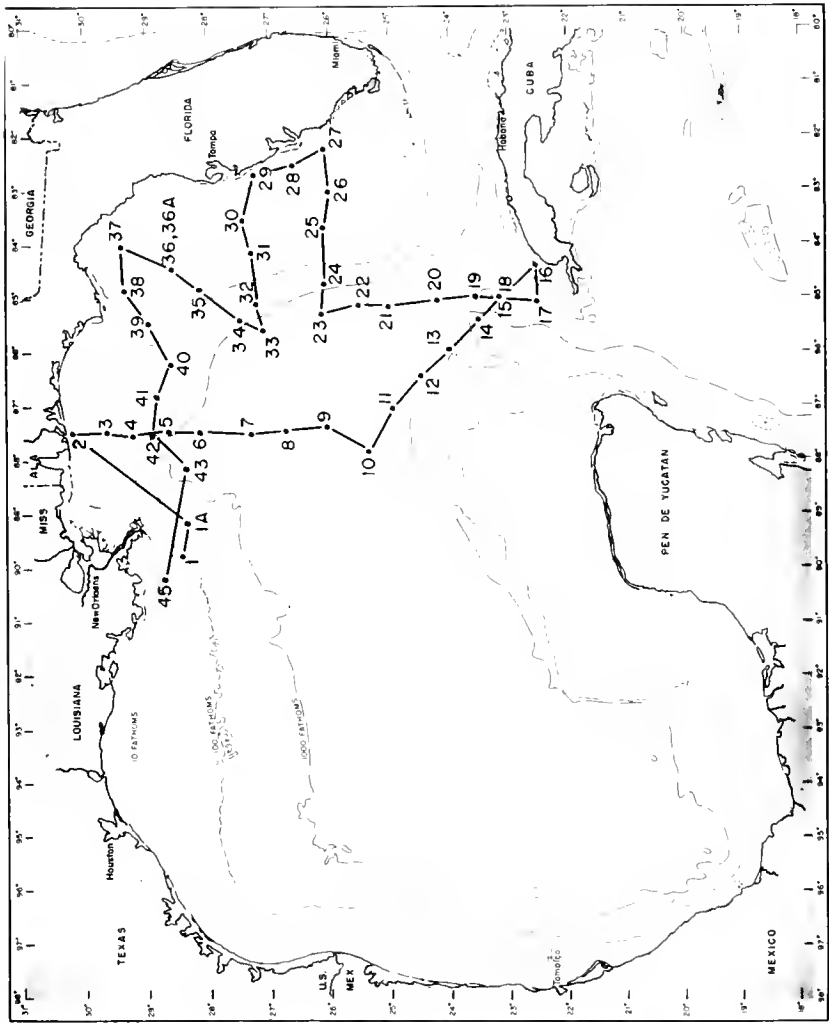


Figure 19.--Locations of stations occupied on Cruise 5-2C.

STATION NO. 5-2C-1

DATE 22 5 1952 LAT. 28° 24' N. LONG. 89° 42' W.
 Day Month Year
 TIME 0642 DEPTH 400 MAX. SAMPLE DEPTH - WIRE ANGLE 25°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL - ° T. - °F.
 Code Code Code Direction Hgt.
- sec. CLOUDS - 0 TEMP. 75.4 °F. 73.9 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 96% WIND 140 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.82	30.52	1.4	0.5	1	1.0	0.7
8	23.82	*36.34	1.8	0.5	2	1.5	0.2
22	23.40	36.15	0.9	0.0	2	0.0	0.0
45	22.08	36.39	---	0.1	0	0.4	0.4
68	20.45	36.36	1.4	0.1	2	0.8	0.1
90	19.54	36.44	1.2	0.5	7	0.2	0.2
134	16.16	36.13	2.7	1.0	12	0.4	0.6
179	14.70	35.90	1.7	1.0	13	1.0	0.2
222	14.05	35.93	2.2	1.0	--	1.6	0.3
266	---	35.63	1.7	1.3	13	0.5	0.3
311	12.37	35.57	1.8	1.2	15	0.2	0.2
355	12.21	35.52	2.4	1.2	19	0.8	0.2
399	11.32	35.43	2.3	1.4	11	1.1	0.2
446	10.33	*35.91	1.9	0.9	12	0.7	0.3
543	*11.48	35.07	3.4	1.7	15	1.3	0.2

*Values not used in drawing smooth curves.

STATION NO. 5-2C-1

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/l Mg/l	
0	23.82	30.52	20.33	1.4	0.5	1	1.0	0.7
10	23.82	34.10	23.04	1.8	0.4	2	1.3	0.2
20	23.65	36.15	24.64	0.9	0.1	2	0.2	0.0
30	22.90	36.38	25.03	1.0	0.0	1	0.1	0.1
50	21.70	36.38	25.37	1.1	0.1	0	0.5	0.3
75	20.05	36.34	25.79	1.3	0.2	4	0.6	0.1
100	19.14	36.26	25.97	1.5	0.6	8	0.2	0.3
150	15.54	36.02	26.66	2.3	1.0	12	0.6	0.5
200	14.42	35.81	26.74	1.9	1.0	13	1.3	0.2
250	13.56	35.66	26.81	1.9	1.2	13	0.9	0.3
300	12.62	35.59	26.95	1.8	1.2	14	0.3	0.2
400	11.31	35.42	27.06	2.3	1.4	11	1.1	0.2
500	(9.58)	35.18	27.18	2.6	1.3	14	1.0	0.2

() Extrapolated values.

STATION NO. 5-20-2

DATE 24 5 1952 LAT. 30° 08' N. LONG. 87° 30' W.
 Day Month Year
 TIME 0729 DEPTH 12 MAX. SAMPLE DEPTH -- WIRE ANGLE 10°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL -- ° T. 0 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- -- TEMP. 77.1 °F. 75.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.99 in. REL. HUM. 91 % WIND 160 ° T. 3 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	PO ₄ -P			
0	24.92	31.98	0.8	0.0	1	1.1	0.4
9	21.84	34.88	1.8	0.1	1	1.0	0.3
19	20.61	36.18	1.2	0.2	2	0.4	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb. Mg/l	Prot. Mg/l	
			O _t	PO ₄ -P				PO ₄ -P
0	24.92	31.98	21.11	0.8	0.0	1	1.1	0.4
10	21.40	35.32	24.65	1.8	1.0	1	0.9	0.3
20	(19.60)	(36.20)	25.80	1.2	0.2	2		

() Extrapolated values

STATION NO. 5-2C-3

DATE 24 5 1952 LAT. 29° 38' N. LONG. 87° 29' W.
 Day Month Year
 TIME 1148 DEPTH 35 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 60 WEATHER 01 SEA 2 SWELL 190 ° T. 3 ft.
 Code Cl Code Code Direction Hgt.
 -- sec. CLOUDS Cu 3 TEMP. 79.4 °F. 76.9 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 91 % WIND 180 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.97	33.04	3.8	0.0	0	1.4	1.0
10	22.88	34.76	0.8	0.0	1	1.2	0.2
25	21.50	36.40	0.8	0.0	1	0.4	0.4
55	19.90	36.31	0.8	1.3	5	0.7	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Ot	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.97	33.04	21.89	3.8	0.0	0	1.4	1.0
10	22.88	34.76	23.81	0.8	0.0	1	1.2	0.2
20	21.90	35.57	24.70	0.8	0.0	1	0.7	0.3
30	21.05	36.40	25.57	0.8	0.0	2	0.5	0.4
50	20.12	36.34	25.77	0.8	0.3	4	0.7	0.3

STATION NO. 5-2C-4

DATE 24 5 1952 LAT. 29° 10' N. LONG. 87° 29' W.
 Day Month Year
 TIME 1654 DEPTH 650 MAX. SAMPLE DEPTH -- WIRE ANGLE 6°
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 1 SWELL 160 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cs,Cb 3 TEMP. 84.1 °F. 78.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 76 % WIND 270 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.58	34.69	1.0	0.0	1	0.4	0.1
9	24.74	35.98	1.0	0.1	1	0.7	0.2
24	23.84	36.41	0.7	0.1	1	---	0.2
49	22.38	*36.42	0.8	0.0	2	1.0	0.4
99	20.06	---	---	---	-	---	---
149	17.05	*36.74	1.4	0.8	9	0.6	0.1
198	15.40	36.12	2.2	1.1	5	0.4	0.1
298	13.11	35.68	2.0	1.2	15	0.7	0.4
399	11.36	35.33	2.5	1.6	26	0.0	0.7
498	9.80	35.21	3.9	1.9	18	0.2	0.8
598	6.91	34.93	3.0	1.8	26	0.5	0.3
697	5.83	34.89	5.1	1.9	31	---	0.0
797	5.31	34.93	4.0	1.8	18	0.4	---
897	5.00	34.93	2.2	1.8	17	0.8	0.0
998	4.76	34.94	3.7	1.5	16	0.2	1.2

*Values not used in drawing smooth curves.

STATION NO. 5-2C-4

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.58	34.69	22.64	1.0	0.0	1	0.4	0.1
10	24.73	35.98	24.19	1.0	0.1	1	0.7	0.2
20	24.18	36.20	24.52	0.8	0.1	1	0.8	0.2
30	23.55	36.42	24.87	0.7	0.1	1	0.9	0.2
50	22.36	36.62	25.37	0.8	0.0	2	1.0	0.4
75	21.16	36.69	25.76	0.9	0.2	4	0.9	0.3
100	20.04	36.66	26.04	1.1	0.4	6	0.8	0.3
150	17.03	36.44	26.63	1.4	0.8	9	0.6	0.1
200	15.35	36.12	26.78	2.2	1.1	5	0.4	0.1
250	14.15	35.85	26.83	2.1	1.1	10	0.5	0.3
300	13.09	35.67	26.91	2.0	1.2	15	0.7	0.4
400	11.35	35.33	26.99	2.5	1.6	26	0.0	0.7
500	9.73	35.20	27.17	3.9	1.9	18	0.2	0.8
600	6.85	34.93	27.40	3.0	1.8	26	0.5	0.3
700	5.81	34.89	27.51	5.1	1.9	31	0.4	0.0
800	5.29	34.93	27.61	4.0	1.8	18	0.4	0.0
1000	(4.75)	(34.94)	27.68	3.7	1.5	16	0.2	1.2

() Extrapolated values.

STATION NO. 5-2G-5

DATE 24 5 1952 LAT. 28° 37' N. LONG. 87° 29' W.
 Day Month Year
 TIME 2233 DEPTH 840 MAX. SAMPLE DEPTH -- WIRE ANGLE 0°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 2 SWELL 160° T. 3 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Ac,Cu 3 TEMP. 79.9 °F. 76.9 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 87 % WIND 140 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.95	35.23	0.8	0.1	1	0.6	0.4
10	25.31	35.70	2.2	0.1	1	0.2	0.6
25	23.95	*36.38	0.4	0.3	1	0.0	0.3
50	23.16	*36.31	1.6	0.1	0	0.3	0.0
100	21.28	*37.29	0.6	0.1	1	0.0	0.0
150	19.31	36.64	1.2	0.4	8	0.2	0.5
200	16.92	36.33	2.6	0.7	13	0.0	0.1
251	15.37	*36.92	2.3	1.1	15	0.4	0.2
301	13.66	35.75	1.6	1.3	16	0.0	0.1
401	10.84	*35.86	2.8	1.6	25	0.0	0.1
501	9.00	---	4.0	---	29	0.2	0.3
602	7.47	34.94	3.0	2.3	17	0.1	0.2
801	6.39	34.89	2.7	2.1	20	0.4	0.4
1000	4.97	34.97	2.1	2.0	25	0.0	0.0
1200	4.43	35.05	2.0	1.8	25	0.3	0.1
1501	4.22	35.07	2.4	1.4	22	0.3	0.6

*Values not used in drawing smooth curves.

STATION NO. 5-2C-5

Depth	Temp. °C	Sal. °C	VALUES AT STANDARD DEPTHS					
			O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.95	35.23	22.93	0.8	0.1	1	0.6	0.4
10	25.31	35.70	23.90	2.2	0.1	1	0.2	0.6
20	24.25	35.92	24.29	1.0	0.2	1	0.1	0.4
30	23.84	36.21	24.63	0.6	0.3	1	0.1	0.2
50	23.16	36.69	25.19	1.6	0.1	0	0.3	0.0
75	22.25	36.78	25.52	1.1	0.1	1	0.2	0.0
100	21.28	36.79	25.80	0.6	0.1	1	0.0	0.0
150	19.31	36.64	26.22	1.2	0.4	8	0.2	0.5
200	16.92	36.33	26.57	2.6	0.7	13	0.0	0.1
250	15.39	36.08	26.74	2.3	1.1	15	0.4	0.2
300	13.67	35.76	26.87	1.6	1.3	16	0.0	0.1
400	10.85	35.36	27.11	2.8	1.6	25	0.0	0.1
500	9.00	35.10	27.22	4.0	1.9	29	0.2	0.3
600	7.49	34.94	27.32	3.0	2.3	17	0.1	0.2
700	6.95	34.90	27.37	2.9	2.2	18	0.3	0.3
800	6.40	34.89	27.43	2.7	2.1	20	0.4	0.4
1000	4.97	34.97	27.68	2.1	2.0	25	0.0	0.0
1200	4.43	35.05	27.80	2.0	1.8	25	0.3	0.1
1500	4.24	35.07	27.84	2.4	1.4	22	0.3	0.6

STATION NO. 5-2C-6

DATE 25 5 1952 LAT. 28° 04' N. LONG. 87° 31' W.

Day Month Year

TIME 0624 DEPTH --- MAX. SAMPLE DEPTH --- WIRE ANGLE 25°

GCT Faths. Meters

WATER COLOR 00 WEATHER -- SEA 2 SWELL -- ° T. -- ft.

Code Code Code Direction Hgt.

-- sec. CLOUDS -- -- TEMP. 78.6 °F. 74.2 °F.Period Type Amount Dry Wet
BAR. 30.00 in. REL. HUM. 79 % WIND 120 ° T. 2 VIS. --
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.76	35.41	0.6	0.0	1	0.0	0.4
22	23.82	*37.47	0.6	0.1	1	0.7	0.5
45	23.26	*37.45	0.4	0.0	0	0.5	0.1
89	22.36	*37.68	1.2	0.1	1	0.4	0.6
134	19.67	---	---	0.5	8	0.0	0.2
177	17.54	36.53	1.0	0.6	9	0.0	0.3
220	16.34	*36.51	2.0	0.2	4	0.7	0.5
262	15.07	36.09	3.8	1.0	14	0.7	0.0
345	12.46	35.62	2.4	1.3	18	1.3	0.3
512	8.98	35.12	2.3	1.9	29	0.8	0.6
675	6.58	34.94	2.0	1.8	25	0.2	0.1
835	5.47	34.96	1.8	2.1	25	1.0	0.2
1074	4.64	34.97	1.7	1.8	23	0.5	0.3
1407	4.27	35.01	1.6	1.5	24	0.0	0.2
1850	4.18	*35.97	1.6	1.6	18	1.0	0.0
2527	4.20	*36.13	1.8	1.4	27	0.6	3.2

*Values not used in drawing smooth curves.

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot Mg/l	Prot Mg/l
0	25.76	35.41	23.44	0.6	0.0	1	0.0	0.4
10	25.40	35.61	23.70	0.6	0.0	1	0.3	0.4
20	23.95	35.88	24.34	0.6	0.1	1	0.6	0.5
30	23.60	36.25	24.73	0.5	0.1	1	0.6	0.4
50	23.18	36.58	25.10	0.5	0.0	0	0.5	0.2
75	22.65	36.71	25.35	0.9	0.1	1	0.4	0.4
100	22.00	36.71	25.54	1.1	0.2	3	0.3	0.5
150	18.85	36.62	26.32	1.0	0.5	8	0.0	0.2
200	16.95	36.42	26.64	1.5	0.3	6	0.4	0.4
250	15.45	36.15	26.78	3.3	0.7	11	0.7	0.1
300	13.85	35.87	26.91	3.2	1.1	16	1.0	0.1
400	11.18	35.41	27.08	2.4	1.5	22	1.1	0.4
500	9.15	35.15	27.23	2.3	1.9	28	0.8	0.6
600	7.53	35.00	27.36	2.2	1.9	27	0.5	0.4
700	6.35	34.94	27.48	2.0	1.8	25	0.3	0.1
800	5.64	34.95	27.58	1.8	2.0	25	0.8	0.2
1000	4.82	34.97	27.69	1.7	1.9	24	0.6	0.3
1200	4.46	34.98	27.74	1.7	1.7	23	0.3	0.3
1500	4.23	(35.02)	(27.80)	1.6	1.5	23	0.2	0.2
2000	4.18	(35.03)	(27.81)	1.6	1.6	20	0.9	0.7
2500	4.20	---	---	1.7	1.4	27	0.6	3.1

() Extrapolated values.

STATION NO. 5-2C-7

DATE 25 5 1952 LAT. 27° 18' N. LONG. 87° 30' W.
 Day Month Year
 TIME 1501 DEPTH 1500 MAX. SAMPLE DEPTH -- WIRE ANGLE 24°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL 160 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cs 1 TEMP. 84.0 °F. 76.1 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 69 % WIND 160 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.41	34.85	0.4	0.1	0	0.2	0.7
22	24.69	36.53	0.8	0.1	0	2.1	0.6
45	22.13	36.44	0.4	0.0	1	0.0	0.2
91	18.68	* 37.75	1.0	0.5	11	0.0	0.1
136	15.92	36.42	0.8	0.7	10	0.0	0.0
182	14.04	36.11	2.3	1.1	12	1.2	0.1
226	12.74	* 37.19	1.4	1.0	15	0.2	0.1
272	11.65	* 36.69	1.7	1.5	17	0.4	1.4**
362	9.43	* 36.92	---	1.8	--	0.2	0.7
542	6.74	34.97	2.3	2.2	--	1.7	0.1
723	5.48	* 35.05	2.2	2.0	--	0.0	0.3
903	4.81	34.99	2.7	1.8	26	0.4	0.1
1173	4.29	* 35.19	2.4	1.6	27	0.8	0.0
1540	4.18	35.05	1.8	1.4	6	0.0	0.3
2016	4.17	35.01	1.6	1.4	22	0.4	0.1
2707	4.19	35.01	1.7	1.7	19	1.2	0.6

* Values not used in drawing smooth curves.

** Sample contaminated with ethylene glycol.

STATION NO. 5-2C-7

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.41	34.85	22.81	0.4	0.1	0	0.2	0.7
10	26.11	35.77	23.60	0.6	0.1	0	1.1	0.7
20	24.71	36.53	24.61	0.8	0.1	0	1.9	0.6
30	23.62	36.52	24.93	0.7	0.1	0	1.4	0.5
50	21.72	36.44	25.42	0.5	0.1	2	0.0	0.2
75	19.80	36.43	25.93	0.8	0.3	8	0.0	0.1
100	18.27	36.43	26.32	1.0	0.5	11	0.0	0.1
150	15.23	36.35	26.98	1.3	0.8	11	0.4	0.0
200	13.42	36.00	27.10	1.9	1.1	13	0.8	0.1
250	12.11	35.77	27.19	1.6	1.3	16	0.3	0.2
300	10.92	35.54	27.23	1.8	1.6	--	0.3	0.4
400	8.76	35.24	27.36	2.0	1.9	--	0.5	0.6
500	7.23	35.03	27.43	2.2	2.1	--	1.3	0.2
600	6.27	34.95	27.50	2.3	2.1	--	1.2	0.2
700	5.58	34.94	27.58	2.2	2.0	--	0.2	0.3
800	5.14	34.97	27.65	2.4	1.9	--	0.2	0.2
1000	4.58	35.00	27.75	2.6	1.7	26	0.5	0.1
1200	4.28	35.02	27.79	2.4	1.6	25	0.7	0.0
1500	4.20	35.05	27.82	1.9	1.4	8	0.1	0.3
2000	4.17	35.01	27.80	1.6	1.4	21	0.4	0.1
2500	--	---	---	1.7	1.6	20	0.9	0.5

STATION NO. 5-2C-8

DATE 25 5 1952 LAT. 26° 39' N. LONG. 87° 30' W.
 Day Month Year
 TIME 2124 DEPTH 1600 MAX. SAMPLE DEPTH -- WIRE ANGLE 14°
~~2103~~
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 0 SWELL 280 ° T. 3 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Ci,Cs 2 TEMP. 78.3 °F. 74.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 87 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.73	35.70	0.6	0.0	1	0.4	0.6
9	24.92	36.33	0.4	0.1	2	0.5	0.2
24	24.12	36.80	0.3	0.0	0	0.4	0.4
49	22.54	36.45	0.4	0.0	1	0.0	0.4
74	21.26	36.55	0.4	0.1	2	0.2	0.1
99	19.77	36.60	0.9	0.4	5	0.7	0.2
148	17.37	36.36	0.8	0.8	9	1.3	0.4
192	15.74	36.11	1.2	1.0	14	0.2	0.2
240	13.89	35.81	1.7	1.0	13	0.6	0.1
288	12.08	35.59	1.8	1.5	16	---	0.8
384	9.93	35.41	2.2	1.6	19	0.8	0.5
575	7.07	*36.00	2.4	1.9	28	0.2	0.2
765	5.57	*35.97	2.5	2.2	26	0.8	0.0
954	4.84	*35.95	2.2	1.8	15	0.3	0.7
1237	4.26	*35.16	2.0	1.6	18	0.0	0.5
1620	4.16	35.03	1.9	1.4	21	0.2	0.1
2106	4.19	35.07	2.4	---	22	0.1	0.0
2778	4.22	34.92	2.7	1.7	21	0.8	0.3

* Values not used in drawing smooth curves.

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.73	35.70	23.35	0.6	0.0	1	0.4	0.6
10	24.85	36.45	24.51	0.4	0.1	2	0.5	0.2
20	24.26	36.79	24.94	0.3	0.0	1	0.4	0.3
30	23.79	36.73	25.04	0.3	0.0	0	0.3	0.4
50	22.50	36.45	25.20	0.4	0.0	1	0.0	0.4
75	21.26	36.56	25.63	0.4	0.1	2	0.2	0.1
100	19.68	36.60	26.09	0.9	0.4	5	0.7	0.2
150	17.27	36.35	26.51	0.8	0.7	9	1.2	0.4
200	15.43	36.06	26.71	1.3	1.0	14	0.6	0.2
250	13.52	35.75	26.88	1.7	1.1	14	0.6	0.2
300	11.72	35.55	27.09	1.9	1.5	16	0.7	0.8
400	9.68	35.38	27.32	2.2	1.6	20	0.7	0.5
500	8.07	35.15	27.40	2.3	1.8	24	0.4	0.2
600	6.81	34.99	27.45	2.4	1.9	28	0.3	0.1
700	6.01	34.97	27.54	2.5	1.8	27	0.6	0.1
800	5.40	34.96	27.62	2.4	2.1	24	0.7	0.1
1000	4.73	34.95	27.69	2.2	1.8	15	0.3	0.7
1200	4.32	34.96	27.74	2.0	1.6	18	0.0	0.5
1500	4.20	35.02	27.80	1.9	1.5	20	0.1	0.2
2000	4.18	35.06	27.83	2.3	-	22	0.1	0.0

STATION NO. 5-2C-9

DATE 26 5 1952 LAT. 26° 00' N. LONG. 87° 30' W.
 Day Month Year
 TIME 0553 DEPTH 1650 MAX. SAMPLE DEPTH --- WIRE ANGLE 19°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 0 SWELL -- ° T. 2 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 79.0 °F. 74.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 79 % WIND 160 ° T. 1 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.74	35.46	0.7	0.0	0	---	0.3
23	23.72	35.90	0.4	0.1	1	0.4	0.0
47	21.94	36.35	1.6	0.1	0	0.6	0.5
94	19.80	36.44	0.8	0.2	7	0.2	0.3
142	16.81	36.29	2.5	0.7	12	1.1	0.4
189	15.15	36.02	1.5	0.8	14	0.2	0.2
236	13.66	35.79	1.8	1.1	21	0.8	0.1
283	12.21	35.64	1.8	1.4	19	1.2	0.3
377	10.03	35.25	2.1	1.7	25	0.2	0.3
564	7.33	34.97	2.4	2.1	30	0.4	0.1
751	5.88	34.97	2.4	1.8	30	0.8	0.1
937	4.96	34.99	2.3	1.7	21	0.0	0.4
1216	4.36	34.99	2.4	2.3	22	0.6	---
1593	4.21	35.03	2.2	1.5	22	0.6	0.0
2079	4.18	35.03	1.8	1.3	21	0.4	0.0

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.74	35.46	23.48	0.7	0.0	0		0.3
10	25.15	35.65	23.81	0.6	0.1	0		0.2
20	24.25	35.84	24.23	0.4	0.1	1		0.0
30	23.27	36.21	24.80	0.8	0.1	1	0.5	0.1
50	21.76	36.36	25.34	1.5	0.1	0	0.6	0.5
75	20.55	36.43	25.72	1.1	0.2	3	0.4	0.4
100	19.46	36.43	26.02	1.0	0.3	7	0.3	0.3
150	16.50	36.25	26.61	2.3	0.7	12	1.0	0.4
200	14.75	35.96	26.79	1.6	0.9	16	0.3	0.2
250	13.20	35.75	26.96	1.8	1.2	20	0.9	0.2
300	11.83	35.56	27.08	1.9	1.5	20	1.0	0.3
400	9.62	35.22	27.21	2.1	1.7	26	0.2	0.3
500	8.17	35.05	27.31	2.3	2.0	28	0.3	0.2
600	7.01	34.97	27.41	2.4	2.0	30	0.5	0.1
700	6.23	34.97	27.52	2.4	1.9	30	0.7	0.1
800	5.60	34.98	27.60	2.4	1.8	28	0.6	0.2
1000	4.78	34.99	27.71	2.3	1.8	21	0.1	0.4
1200	4.40	34.99	27.76	2.4	2.3	22	0.6	0.2
1500	4.23	35.02	27.80	2.2	1.7	22	0.6	0.1
2000	4.18	35.03	27.81	1.9	1.3	21	0.4	0.0

STATION NO. 5-2C-10

DATE 26 5 1952 LAT. 25° 19' N. LONG. 87° 45' W.
 Day Month Year
 TIME 1308 DEPTH 1820 MAX. SAMPLE DEPTH -- WIRE ANGLE 8°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 0 SWELL 115 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Ci 1 TEMP. 78.4 °F. 74.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 83 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.74	37.45	0.6	0.0	2	0.4	0.6
24	23.68	36.22	0.4	0.1	1	0.7	0.1
49	22.68	36.45	0.6	0.2	2	0.6	0.3
98	20.34	*37.68	0.7	0.3	4	0.2	0.4
148	17.14	*37.54	0.8	0.8	12	0.4	0.3
196	15.07	36.09	1.6	1.0	16	---	0.7
244	13.58	*35.64	1.6	1.3	17	0.2	0.2
293	12.39	*35.81	2.6	1.5	24	0.7	0.1
387	9.73	35.23	2.3	1.7	25	0.2	0.1
571	6.87	35.03	2.4	2.1	27	0.6	0.1
752	5.50	34.96	2.8	1.8	28	0.8	0.0
931	4.76	34.97	2.8	1.6	21	---	0.3
1194	4.32	35.08	2.3	1.7	23	0.8	0.7
1544	4.20	35.03	2.0	1.4	14	0.0	0.5
1990	4.20	35.03	2.2	1.4	25	0.0	0.2
2667	4.22	35.05	2.2	1.4	22	0.8	0.6

* Values not used in drawing smooth curves.

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/l Mg/l	
0	25.74	37.45	24.98	0.6	0.0	2	0.4	0.6
10	25.40	36.45	24.34	0.5	0.0	2	0.5	0.4
20	24.50	36.22	24.44	0.4	0.1	1	0.7	0.2
30	23.35	36.23	24.79	0.5	0.1	1	0.7	0.1
50	22.60	36.50	25.21	0.6	0.2	2	0.6	0.3
75	21.65	36.78	25.69	0.7	0.3	3	0.4	0.4
100	20.25	36.82	26.11	0.7	0.3	4	0.2	0.4
150	17.05	36.55	26.71	0.8	0.8	12	0.4	0.3
200	14.91	36.05	26.82	1.6	1.0	16	0.3	0.7
250	13.45	35.73	26.89	1.7	1.3	18	0.3	0.2
300	12.21	35.50	26.96	2.6	1.5	24	0.7	0.1
400	9.44	35.22	27.24	2.3	1.7	25	0.2	0.1
500	7.83	35.09	27.39	2.4	1.9	26	0.4	0.1
600	6.62	35.01	27.50	2.5	2.1	27	0.6	0.1
700	5.87	34.97	27.57	2.7	1.9	28	0.7	0.0
800	5.27	34.96	27.64	2.8	1.7	25	0.8	0.1
1000	4.60	35.00	27.74	2.7	1.6	22	0.8	0.4
1200	4.32	35.08	27.84	2.3	1.7	23	0.8	0.7
1500	4.20	35.04	27.82	2.0	1.4	15	0.1	0.5
2000	4.20	35.03	27.81	2.2	1.4	25	0.0	0.2
2500	4.21	35.05	27.82	2.2	1.4	23	0.6	0.5

STATION NO. 5-2G-11

DATE 26 5 1952 LAT. 24° 53' N. LONG. 87° 00' W.
 Day Month Year
 TIME 2130 DEPTH 1600 MAX. SAMPLE DEPTH -- WIRE ANGLE 9 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL 320 ° T. 1.5 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cc Cu 3 TEMP. 82.7 °F. 76.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 76 % WIND 320 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.49	37.70	0.6	0.0	0	0.0	0.1
24	23.75	36.31	0.6	0.0	0	0.7	0.4
49	22.13	36.36	0.4	0.0	0	0.0	0.7
98	19.18	36.53	0.7	0.4	10	0.2	0.1
147	16.08	36.15	1.1	---	10	0.0	0.2
196	14.42	35.91	1.6	1.1	16	0.1	0.0
245	12.41	35.64	1.8	1.2	16	0.3	0.6
294	11.02	35.39	1.8	1.4	27	0.6	0.0
394	8.98	35.14	2.0	1.9	20	0.3	0.2
590	6.30	34.91	2.3	2.0	32	0.4	0.3
788	5.13	34.96	2.0	1.7	25	0.2	0.0
986	4.45	34.98	2.0	1.6	25	0.0	0.3
1282	4.21	34.98	1.8	2.3	5	0.4	0.1
1679	4.18	35.03	1.9	1.6	15	1.2	0.1
2172	---	35.07	---	---	--	---	---
2875	4.21	34.99	1.9	1.6	20	0.6	0.1

STATION NO. 5-2C-11

Depth	Temp. °C	VALUES AT STANDARD DEPTHS						
		Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.49	37.70	24.93	0.6	0.0	0	0.0	0.1
10	26.00	36.57	24.24	0.6	0.0	0	0.3	0.2
20	24.30	36.32	24.58	0.6	0.0	0	0.6	0.3
30	23.30	36.32	24.87	0.6	0.0	0	0.5	0.5
50	22.09	36.36	25.25	0.4	0.0	0	0.0	0.7
75	20.73	36.47	25.71	0.6	0.2	5	0.1	0.4
100	19.10	36.51	26.17	0.7	0.4	10	0.2	0.1
150	15.98	36.14	26.65	1.1	0.7	10	0.0	0.2
200	14.34	35.87	26.81	1.6	1.1	16	0.1	0.0
250	12.29	35.59	27.02	1.8	1.2	17	0.3	0.5
300	10.90	35.37	27.11	1.8	1.4	27	0.6	0.0
400	8.86	35.13	27.26	2.0	1.9	20	0.3	0.2
500	7.29	34.95	27.36	2.2	2.0	27	0.4	0.3
600	6.25	34.91	27.47	2.3	2.0	32	0.4	0.3
700	5.56	34.94	27.58	2.1	1.8	28	0.3	0.1
800	5.09	34.96	27.66	2.0	1.7	25	0.2	0.0
1000	4.41	34.98	27.75	2.0	1.6	24	0.0	0.3
1200	4.28	34.98	27.76	1.9	2.1	10	0.3	0.2
1500	4.20	35.01	27.79	1.9	1.9	10	0.8	0.1
2000	4.20	35.06	27.83	1.9	-	16	1.0	0.1
2500	4.20	35.05	27.83	1.9	-	18	0.8	0.1

STATION NO. 5-2C-12

DATE 27 5 1952 LAT. 24° 25' N. LONG. 86° 28' W.
 Day Month Year
 TIME 0428 DEPTH 1150 MAX. SAMPLE DEPTH -- WIRE ANGLE 17°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- TEMP. 79.4 °F. 75.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 87 % WIND 10 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.37	37.03	0.6	0.1	0	0.3	0.4
9	25.99	36.42	0.6	0.0	1	0.6	---
23	24.00	36.36	1.0	0.0	0	0.0	0.3
48	22.27	36.52	1.2	0.1	2	0.0	0.3
96	18.59	36.43	0.9	0.6	11	0.0	0.4
143	16.68	36.21	1.2	0.8	13	0.4	0.6
190	14.78	36.09	1.8	1.5	8	0.3	0.4
238	12.69	36.06	1.8	1.4	12	0.4	0.0
286	11.28	35.81	1.9	1.6	21	1.2	0.5
381	8.98	35.12	2.1	2.7	30	0.9	0.2
477	7.46	34.97	2.2	1.9	30	---	0.0
574	6.41	34.90	2.2	2.1	28	---	0.6
670	*5.20	34.93	2.2	1.6	22	0.4	0.3
961	4.56	34.98	2.1	1.6	24	1.3	0.1
1354	4.20	35.03	1.9	1.3	15	0.7	0.3
1847	4.18	35.04	1.6	1.5	9	0.6	0.2

*Values not used in drawing smooth curves.

STATION NO. 5-20-12

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.37	37.03	24.47	0.6	0.1	0	0.3	0.4
10	25.92	36.41	24.15	0.6	0.0	1	0.6	0.4
20	24.55	36.36	24.53	0.9	0.0	0	0.0	0.3
30	23.35	36.38	24.90	1.1	0.0	1	0.0	0.3
50	22.00	36.52	25.40	1.2	0.1	2	0.0	0.3
75	20.00	36.48	25.91	1.0	0.4	7	0.0	0.4
100	18.30	36.41	26.30	0.9	0.6	11	0.0	0.4
150	16.42	36.19	26.59	1.3	0.9	12	0.4	0.6
200	14.35	36.08	26.97	1.8	1.5	9	0.3	0.3
250	12.33	36.03	27.35	1.8	1.5	14	0.6	0.1
300	10.92	35.69	27.35	1.9	1.8	22	1.2	0.5
400	8.63	35.09	27.27	2.1	2.5	30	-	0.2
500	7.20	34.95	27.37	2.2	1.9	30	-	0.1
600	6.22	34.90	27.47	2.2	1.9	26	-	0.5
700	5.53	34.94	27.59	2.2	1.6	22	0.5	0.3
800	5.04	34.96	27.66	2.2	1.6	23	0.8	0.2
1000	4.49	34.98	27.74	2.1	1.5	23	1.2	0.1
1200	4.31	35.01	27.78	2.0	1.4	17	0.9	0.2
1500	4.20	35.04	27.82	1.8	1.4	13	0.7	0.3

STATION NO. 5-2C-13

DATE 27 5 1952 LAT. 23° 57' N. LONG. 85° 57' W.
 Day Month Year
 TIME 1236 DEPTH 1850 MAX. SAMPLE DEPTH -- WIRE ANGLE 35 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL 320 ° T. 2 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Cl,Cu 4 TEMP. 81.5 °F. 76.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 76 % WIND 010 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.65	36.55	0.8	0.0	0	0.3	0.0
20	26.56	36.59	1.8	0.0	-	0.4	0.9
41	24.56	36.48	1.2	0.0	1	0.3	0.3
80	22.74	36.45	0.8	0.0	1	0.1	---
118	21.28	36.48	0.8	0.1	2	0.7	0.4
155	19.09	36.47	2.0	0.3	9	0.5	0.0
191	17.37	36.47	1.5	0.4	6	1.0	0.3
226	15.80	36.11	2.8	0.8	17	0.2	0.0
294	13.15	35.68	2.2	1.2	19	0.2	0.4
422	10.07	35.26	2.8	1.3	22	0.1	0.2
541	7.87	35.14	3.5	1.9	21	0.6	0.4
659	6.61	34.96	3.2	1.8	22	0.8	---
837	5.47	34.95	2.4	1.8	27	0.8	0.4
1068	4.56	*35.46	3.4	1.6	23	0.3	0.2
1360	4.23	*35.03	2.8	1.6	23	0.2	0.0
1917	4.21	*36.44	1.8	0.3	7	0.3	0.4

* Values not used in drawing smooth curves.

STATION NO. 5-2C-13

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.65	36.55	24.02	0.8	0.0	0	0.3	0.0
10	26.61	36.57	24.05	1.3	0.0	0	0.4	0.5
20	26.56	36.59	24.08	1.8	0.0	0	0.4	0.9
30	25.50	36.55	24.38	1.5	0.0	1	0.4	0.6
50	24.14	36.48	24.74	1.1	0.0	1	0.3	0.3
75	22.94	36.46	25.08	0.9	0.0	1	0.1	0.3
100	22.07	36.47	25.34	0.8	0.1	2	0.4	0.4
150	19.50	36.47	26.04	1.8	0.3	8	0.5	0.1
200	16.92	36.44	26.66	1.8	0.5	9	0.8	0.2
250	14.82	35.93	26.75	2.6	0.9	18	0.2	0.1
300	13.06	35.64	26.90	2.2	1.2	19	0.2	0.4
400	10.58	35.30	27.11	2.7	1.3	21	0.1	0.2
500	8.60	35.19	27.35	3.3	1.7	21	0.4	0.3
600	7.18	35.04	27.45	3.4	1.8	21	0.7	0.4
700	6.33	34.95	27.49	3.0	1.8	24	0.8	0.4
800	5.67	34.95	27.58	2.6	1.8	26	0.8	0.4
1000	4.78	34.99	27.71	3.1	1.7	24	0.4	0.3
1200	4.38	35.02	27.78	3.1	1.6	23	0.3	0.1
1500	4.22	---	---	2.5	1.3	19	0.2	0.1

STATION NO. 5-2C-14

DATE 27 5 1952 LAT. 23° 28' N. LONG. 85° 26' W.
 Day Month Year
 TIME 2038 DEPTH 610 MAX. SAMPLE DEPTH 1145 WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR 00-10 WEATHER 01 SEA 1 SWELL --- ° T. --- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS 1 TEMP. 81.9 °F. 77.4 °F.
 Cu 1 Dry Wet
 Period Type Amount
 BAR. 29.94 in. REL. HUM. 80 % WIND 070 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.40	35.99	1.2	0.0	1	0.0	0.2
10	27.95	35.91	1.2	0.1	1	1.6	0.3
25	27.83	35.93	1.0	0.0	0	0.5	0.3
49	26.69	35.96	1.8	0.0	1	0.5	0.1
74	25.93	36.04	1.5	0.0	2	0.8	0.4
99	25.47	36.13	0.9	0.2	-	0.4	0.2
148	22.95	36.69	1.1	0.2	4	0.0	0.4
198	20.97	36.94	1.2	0.4	6	0.0	0.2
247	19.04	36.58	1.8	0.4	5	0.0	0.2
296	17.14	36.33	1.4	0.6	10	0.4	0.1
395	15.42	36.02	2.2	0.9	15	0.6	0.2
494	13.12	35.60	2.7	1.1	19	1.4	0.2
592	10.53	35.24	3.4	1.5	25	0.2	0.2
691	8.34	34.96	3.2	2.0	31	0.7	0.3
791	6.54	35.03	3.8	1.8	17	1.3	0.2
991	5.10	34.87	2.6	1.6	20	0.0	0.0

STATION NO. 5-2C-14

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.40	35.99	23.03	1.2	0.0	1	0.0	0.2
10	27.95	35.91	23.12	1.2	0.1	1	1.6	0.3
20	27.88	35.92	23.15	1.1	0.0	0	0.9	0.3
30	27.65	35.94	23.24	1.0	0.0	0	0.5	0.3
50	26.62	35.97	23.60	1.2	0.0	1	0.5	0.1
75	25.92	36.05	23.87	1.5	0.0	2	0.8	0.4
100	25.46	36.14	24.09	0.9	0.1	3	0.4	0.2
150	22.89	36.70	25.28	1.1	0.2	4	0.0	0.4
200	20.92	36.93	26.01	1.2	0.4	6	0.0	0.2
250	18.85	36.55	26.27	1.8	0.4	5	0.0	0.2
300	17.05	36.32	26.54	1.4	0.6	10	0.4	0.1
400	15.39	35.99	26.66	2.2	0.9	15	0.6	0.2
500	13.04	35.57	26.85	2.7	1.1	19	1.3	0.2
600	10.45	35.22	27.06	3.4	1.5	25	0.2	0.2
700	8.18	34.96	27.24	3.3	2.0	30	0.7	0.3
800	6.48	35.03	27.53	3.7	1.8	17	1.2	0.2
1000	(5.06)	(34.87)	(27.59)	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-2C-15

DATE 28 5 1952 LAT. 23° 00' N. LONG. 84° 57' W.
 Day Month Year
 TIME 0352 DEPTH 1100 MAX. SAMPLE DEPTH -- WIRE ANGLE 19°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- -- TEMP. 82.1 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 80 % WIND 030 ° T. 2 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.85	36.09	0.6	0.0	1	1.4	0.1
9	27.77	36.22	0.8	0.1	0	0.3	0.3
24	27.42	36.09	0.8	0.0	1	0.2	0.1
47	26.77	36.06	1.0	0.1	0	0.2	0.3
93	25.83	36.09	0.8	0.1	2	0.3	0.3
139	24.81	---	1.0	0.2	2	0.1	0.4
185	21.72	36.74	1.3	0.2	4	0.6	0.2
232	20.05	36.73	1.0	0.3	6	0.4	1.0
278	---	36.55	1.4	0.4	9	---	1.4
368	16.34	36.24	1.7	---	10	0.0	0.0
457	14.15	35.84	1.6	1.0	17	0.2	0.0
547	12.07	35.61	2.3	1.2	16	0.1	0.3
729	8.61	35.08	2.7	1.7	19	0.5	0.2
913	6.08	34.94	2.8	2.1	26	0.8	0.2
1290	4.41	34.99	2.4	1.6	17	0.6	0.5
1685	4.21	35.01	3.0	1.5	23	0.3	0.0

STATION NO. 5-2C-15

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	Ot	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.85	36.09	23.29	0.6	0.0	1	1.4	0.1
10	27.75	36.21	23.41	0.8	0.1	0	0.3	0.3
20	27.54	36.11	23.41	0.8	0.0	1	0.2	0.2
30	27.30	36.07	23.45	0.8	0.0	1	0.2	0.2
50	26.76	36.06	23.29	1.0	0.1	0	0.2	0.3
75	26.21	36.08	23.81	0.9	0.1	1	0.3	0.3
100	25.70	36.12	23.99	0.8	0.1	2	0.3	0.3
150	24.22	36.62	24.83	1.1	0.2	2	0.2	0.3
200	21.10	36.75	25.82	1.2	0.2	5	0.5	0.5
250	19.51	36.65	26.17	1.2	0.3	7	0.3	1.2
300	18.10	36.48	26.40	1.5	0.5	9	0.2	1.0
400	15.53	36.06	26.69	1.7	0.8	13	0.1	0.0
500	13.14	35.74	26.96	1.9	1.1	17	0.2	0.1
600	10.94	35.45	27.16	2.4	1.3	17	0.2	0.3
700	9.12	35.14	27.23	2.6	1.6	19	0.4	0.2
800	7.52	35.01	27.37	2.7	1.8	22	0.6	0.2
1000	5.44	34.94	27.60	2.7	2.0	24	0.8	0.3
1200	4.67	34.98	27.71	2.5	1.7	19	0.6	0.4
1500	4.23	35.00	27.78	2.7	1.5	20	0.4	0.2

STATION NO. 5-2C-16

DATE 28 5 1952 LAT. 22° 33' N. LONG. 84° 28' W.
 Day Month Year
 TIME 1125 DEPTH 650 MAX. SAMPLE DEPTH -- WIRE ANGLE 11°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 0 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Ci,As 9 TEMP. 81.9 °F. 77.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 80 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.13	36.09		0.1	0	---	0.1
9	28.01	*36.85		0.0	1	0.4	0.7
24	27.39	36.08		0.1	0	---	0.2
49	26.62	36.10		0.0	0	0.6	0.2
98	24.99	36.26		0.0	1	0.4	3.5
147	22.97	36.74		0.2	3	0.3	0.1
195	20.59	36.77		0.3	5	0.5	0.2
244	19.19	36.65		0.4	6	0.4	0.2
292	18.14	36.53		0.5	6	0.0	0.1
388	16.05	36.20		0.8	10	0.4	0.0
486	13.38	35.71		1.2	16	0.1	0.0
584	10.70	35.32		1.5	14	---	0.7
682	8.53	35.02		1.8	25	0.1	0.3
780	6.84	34.90		---	24	0.8	0.0
880	5.74	34.90		1.8	28	0.4	0.1
1076	4.60	34.97		1.7	14	0.8	0.7

*Values not used in drawing smooth curves.

STATION NO: 5-2C-16

DATE 28 5 1952 LAT. 22° 33' N. LONG. 84° 28' W.
 Day Month Year
 TIME 1125 DEPTH 650 MAX. SAMPLE DEPTH -- WIRE ANGLE 11 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 0 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Ci,As 9 TEMP. 81.9 °F. 77.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.93 in. REL. HUM. 80 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.13	36.09	0.6	0.1	0	---	0.1
9	28.01	*36.85	1.2	0.0	1	0.4	0.7
24	27.39	36.08	0.8	0.1	0	---	0.2
49	26.62	36.10	0.7	0.0	0	0.6	0.2
98	24.99	36.26	0.8	0.0	1	0.4	3.5
147	22.97	36.74	---	0.2	3	0.3	0.1
195	20.59	36.77	1.2	0.3	5	0.5	0.2
244	19.19	36.65	1.4	0.4	6	0.4	0.2
292	18.14	36.53	1.2	0.5	6	0.0	0.1
388	16.05	36.20	0.8	0.8	10	0.4	0.0
486	13.38	35.71	2.3	1.2	16	0.1	0.0
584	10.70	35.32	1.9	1.5	14	---	0.7
682	8.53	35.02	2.8	1.8	25	0.1	0.3
780	6.84	34.90	2.9	---	24	0.8	0.0
880	5.74	34.90	1.8	1.8	28	0.4	0.1
1076	4.60	34.97	2.8	1.7	14	0.8	0.7

*Values not used in drawing smooth curves.

STATION NO. 5-2C-17

DATE 28 5 1952 LAT. 22° 32' N. LONG. 84° 57' W.
 Day Month Year
 TIME 1806 DEPTH 1200 MAX. SAMPLE DEPTH -- WIRE ANGLE 50 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 00 SEA 0 SWELL 020 ° T. 1 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Ci,Cu 1 TEMP. 91.0 °F. 79.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 62 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.89	36.03	0.8	0.0	0	0.9	0.3
24	27.10	36.07	1.0	0.2	2	0.7	0.6
49	26.36	36.04	0.6	0.1	1	0.6	0.4
99	25.30	36.18	0.8	0.1	1	0.6	0.8
149	21.94	36.80	0.2	0.2	5	0.6	0.5
199	20.02	36.65	0.8	0.4	7	0.0	5.8
249	18.63	36.51	0.7	0.4	8	0.0	0.3
298	17.42	36.33	0.8	0.5	7	0.3	0.4
397	15.36	35.99	1.8	0.8	10	1.0	---
496	13.23	35.66	2.2	0.9	9	1.6	0.0
595	10.59	35.24	2.6	1.5	15	0.3	0.6
693	8.51	34.99	2.8	1.9	34	---	0.3
890	5.96	34.89	3.4	1.8	27	0.4	0.3
1189	4.49	34.97	2.6	1.6	17	0.3	1.2
1590	4.20	35.00	2.2	1.4	--	0.4	0.1

STATION NO. 5-2C-17

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.89	36.03	23.23	0.8	0.0	0	0.9	0.3
10	27.56	36.06	23.36	0.9	0.1	1	0.8	0.4
20	27.15	36.07	23.50	1.0	0.2	2	0.7	0.6
30	26.85	36.06	23.59	0.9	0.2	2	0.7	0.5
50	26.35	36.04	23.73	0.6	0.1	1	0.6	0.4
75	25.89	36.12	23.94	0.7	0.1	1	0.6	0.6
100	25.25	36.20	24.20	0.8	0.1	1	0.6	0.8
150	21.90	36.79	25.63	0.2	0.2	5	0.6	0.6
200	20.00	36.64	26.04	0.8	0.4	7	0.0	5.7
250	18.57	36.49	26.29	0.7	0.4	8	0.0	0.3
300	17.35	36.32	26.46	0.8	0.5	7	0.3	0.4
400	15.28	35.97	26.67	1.8	0.7	10	1.0	0.2
500	13.15	35.64	26.88	2.2	0.9	9	1.5	0.0
600	10.50	35.22	27.05	2.6	1.5	16	0.3	0.6
700	8.40	34.98	27.21	2.8	1.9	34	0.4	0.3
800	6.90	34.92	27.39	3.1	1.8	30	0.4	0.3
1000	5.30	34.92	27.60	3.1	1.7	22	0.4	0.6
1200	4.45	34.97	27.73	2.6	1.6	--	0.3	1.2
1500	4.21	34.99	27.77	2.3	1.4	--	0.4	0.3

STATION NO. 5-2C-18

DATE 29 5 1952 LAT. 23° 00' N. LONG. 84° 57' W.
 Day Month Year
 TIME 0121 DEPTH 1100 MAX. SAMPLE DEPTH -- WIRE ANGLE 21 °
 GCT 00- Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 81.4 °F. 77.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.92 in. REL. HUM. 88 % WIND 050 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.85	36.00	0.6	0.0	0	0.0	0.4
10	27.49	35.93	1.3	0.0	0	0.0	0.7
23	27.12	36.26	0.5	0.2	2	0.0	0.3
47	26.62	36.00	0.9	0.0	0	---	0.2
92	25.92	36.08	0.5	0.0	2	0.0	0.2
138	24.38	36.55	0.6	0.0	2	0.2	0.2
182	21.72	36.87	1.8	0.4	6	---	0.1
227	19.33	36.65	1.2	0.4	8	---	0.0
271	---	36.55	1.0	0.4	8	---	0.0
360	16.38	36.26	1.4	0.5	11	0.2	0.2
448	14.44	35.93	3.8	0.9	11	---	0.1
536	12.44	35.62	2.6	1.2	--	0.4	0.2
718	8.71	35.14	3.3	1.7	12	0.0 ^a	0.3
905	6.19	34.94	2.9	2.0	24	0.6	0.0
1101	4.95	34.99	4.4	1.9	13	0.3	0.2

(a) Green carbohydrates.

STATION NO. 5-2C-18

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.85	36.00	23.22	0.6	0.0	0	0.0	0.4
10	27.49	35.93	23.28	1.3	0.0	0	0.0	0.7
20	27.24	36.26	23.61	0.7	0.2	2	0.0	0.4
30	26.95	36.13	23.61	0.6	0.2	1	0.0	0.3
50	26.52	36.00	23.65	0.9	0.0	0	0.0	0.2
75	26.18	36.04	23.78	0.7	0.0	1	0.0	0.2
100	25.84	36.10	23.93	0.5	0.0	1	0.0	0.2
150	23.62	36.73	25.09	0.9	0.1	3	0.2	0.2
200	20.75	36.82	25.97	1.6	0.4	7	0.2	0.1
250	18.51	36.59	26.38	1.1	0.4	8	0.2	0.0
300	17.42	36.45	26.55	1.1	0.4	9	0.2	0.1
400	15.60	36.09	26.70	2.5	0.7	11	0.2	0.2
500	13.31	35.75	26.93	3.1	1.1	11	0.4	0.2
600	11.00	35.45	27.14	2.8	1.4	12	0.3	0.2
700	9.05	35.17	27.26	3.2	1.7	12	0.0	0.3
800	7.49	35.04	27.40	3.1	1.8	17	0.3	0.2
1000	5.47	34.95	27.60	3.6	2.0	19	0.5	0.1

STATION NO. 5-2C-19

DATE 29 5 1952 LAT. 23° 30' N. LONG. 85° 00' W.
 Day Month Year
 TIME 0647 DEPTH 1500 MAX. SAMPLE DEPTH -- WIRE ANGLE 14°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 81.5 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 80 % WIND 090 ° T. 2 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.95	36.08	0.6	---	1	0.3	0.2
9	27.96	36.20	0.6	0.0	-	0.0	0.6
23	27.15	*37.18	0.3	0.3	1	---	0.2
48	26.73	36.22	0.4	0.0	1	0.4	0.1
96	25.64	36.17	0.5	0.0	1	0.2	0.1
144	23.18	36.89	1.0	0.2	4	0.5	0.2
193	21.27	36.83	0.7	0.2	4	5.6	0.2
240	19.14	36.62	0.8	0.4	8	0.3	0.0
383	15.88	36.20	1.4	0.8	11	0.6	0.2
478	13.67	35.81	2.0	1.0	18	0.0	0.4
572	11.30	35.39	2.3	1.5	23	0.2	0.2
762	8.18	35.19	2.2	1.9	32	0.2	0.0
952	5.60	35.07	4.2	1.9	27	0.5	0.3
1149	4.78	35.21	3.1	1.7	23	1.2	0.1

*Values not used in drawing smooth curves.

Depth	Temp. °C	VALUES AT STANDARD DEPTHS						
		Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.95	36.08	23.25	0.6	-	1	0.3	0.2
10	27.96	36.20	23.34	0.6	0.0	1	0.0	0.6
20	27.35	36.22	23.55	0.4	0.2	1	0.1	0.3
30	26.99	36.23	23.67	0.3	0.2	1	0.2	0.2
50	26.65	36.22	23.77	0.4	0.0	1	0.4	0.1
75	26.05	36.18	23.93	0.5	0.0	1	0.3	0.1
100	25.54	36.18	24.09	0.5	0.0	1	0.2	0.1
150	22.92	36.88	25.41	1.0	0.2	4	1.1	0.2
200	21.05	36.80	25.87	0.7	0.2	5	4.8	0.2
250	18.79	36.59	26.31	0.8	0.4	8	0.3	0.0
300	17.49	36.45	26.53	1.1	0.6	9	0.4	0.1
400	15.51	36.15	26.76	1.5	0.8	12	0.5	0.2
500	13.14	35.69	26.92	2.1	1.1	19	0.1	0.4
600	10.71	35.36	27.13	2.3	1.6	24	0.2	0.2
700	9.08	35.25	27.32	2.2	1.8	29	0.2	0.1
800	7.65	35.16	27.47	2.6	1.9	31	0.3	0.1
1000	5.29	35.09	27.73	3.9	1.9	26	0.7	0.2

STATION NO. 5-20-20

DATE 29 5 1952 LAT. 24° 11' N. LONG. 85° 04' W.
 Day Month Year
 TIME 1250 DEPTH 1800 MAX. SAMPLE DEPTH -- WIRE ANGLE 17°
 GCT 00- Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 0 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Cu,Cs 3 TEMP. 81.7 °F. 76.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 76 % WIND 225 ° T. 1 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.18	36.00	0.6	0.0	1	0.0	0.2
9	28.23	35.99	1.1	0.1	0	0.2	0.1
23	27.36	*37.45	1.1	0.0	1	0.1	0.2
47	26.74	36.60	2.0	0.0	0	0.0	0.1
94	24.98	36.42	1.0	0.1	1	0.0	0.2
140	22.01	*37.38	1.4	0.2	4	0.2	0.1
187	19.90	*37.74	1.4	0.3	7	0.1	0.4
232	17.97	*37.45	1.2	0.4	9	0.0	0.2
277	16.56	36.83	1.9	0.5	11	0.4	0.1
365	14.29	36.44	3.0	1.2	14	0.8	0.0
451	12.08	*36.69	2.3	1.3	13	0.0	0.3
535	10.10	36.26	3.3	1.5	23	---	0.0
699	7.66	34.98	2.9	1.9	33	0.4	0.2
859	5.79	34.84	3.2	1.9	30	---	0.4
1019	5.08	34.90	2.8	1.7	26	0.6	0.1
1282	4.36	34.99	3.0	1.5	23	0.4	0.0

*Values not used in drawing smooth curves.

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.18	36.00	23.11	0.6	0.0	1	0.0	0.2
10	28.22	35.99	23.09	1.1	0.1	0	0.2	0.1
20	27.60	36.23	23.47	1.1	0.0	1	0.1	0.2
30	27.11	36.55	23.87	1.4	0.0	1	0.1	0.2
50	26.62	36.59	24.06	1.9	0.0	0	0.0	0.1
75	25.88	36.47	24.20	1.4	0.1	1	0.0	0.2
100	24.40	36.44	24.64	1.0	0.1	1	0.0	0.2
150	21.54	36.61	25.59	1.4	0.2	5	0.2	0.2
200	19.32	36.75	26.30	1.3	0.3	8	0.1	0.3
250	17.35	36.82	26.85	1.5	0.4	10	0.2	0.2
300	15.95	36.78	27.15	2.2	0.6	12	0.5	0.1
400	13.43	36.25	27.29	2.7	1.2	14	0.5	0.1
500	10.98	35.69	27.34	2.9	1.4	19	0.1	0.1
600	8.92	35.27	27.36	3.1	1.6	27	0.2	0.1
700	7.64	34.97	27.32	2.9	1.9	33	0.4	0.2
800	6.35	34.87	27.43	3.1	1.9	31	0.5	0.3
1000	5.16	34.89	27.59	2.8	1.7	26	0.6	0.1
1200	4.59	34.97	27.72	2.9	1.6	24	0.5	0.0

STATION NO. 5-2C-21

DATE 29 5 1952 LAT. 24° 56' N. LONG. 85° 09' W.
 Day Month Year
 TIME 1846 DEPTH 1800 MAX. SAMPLE DEPTH -- WIRE ANGLE 22°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 0 SWELL 020 ° T. 1 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Ci,Cu 2 TEMP. 88.0 °F. 78.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 64 % WIND 200 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	27.64	36.58	0.7	0.0	0	0.5	0.2
9	26.40	36.51	0.8	2.9	2	0.3	0.5
22	24.13	*36.99	0.8	0.0	1	0.0	0.0
45	23.30	36.56	0.6	0.0	2	0.4	0.2
90	21.20	36.39	0.8	0.0	4	0.4	0.3
134	18.73	36.43	1.1	0.6	8	0.6	1.0
178	17.21	36.58	1.7	0.7	13	---	0.2
221	15.20	35.97	1.6	0.9	14	0.2	0.1
263	13.73	35.86	1.6	1.1	8	0.4	0.1
347	11.34	35.59	2.2	1.5	20	0.3	0.6
430	8.92	*36.51	2.4	1.9	29	0.4	0.7
514	7.68	34.96	2.8	0.2	24	0.6	0.2
678	6.03	34.85	2.8	2.0	16	0.6	0.1
845	5.24	35.59	2.6	1.8	23	0.6	0.2
1022	4.64	35.01	3.4	1.6	22	0.6	0.2
1312	4.26	34.99	2.5	1.7	5	0.2	1.1

* Values not used in drawing smooth curve.

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.64	36.58	23.73	0.7	0.0	0	0.5	0.2
10	26.20	36.51	24.13	0.8	2.7	2	0.3	0.5
20	24.75	36.52	24.59	0.8	0.4	1	0.0	0.1
30	23.85	36.55	24.88	0.7	0.0	1	0.1	0.1
50	23.12	36.53	25.08	0.6	0.0	2	0.4	0.2
75	21.90	36.40	25.33	0.7	0.0	3	0.4	0.3
100	20.68	36.39	25.66	0.9	0.1	5	0.4	0.5
150	18.08	36.48	26.40	1.2	0.6	10	0.5	0.7
200	16.22	36.16	26.61	1.6	0.8	14	0.3	0.1
250	14.08	35.90	26.88	1.6	1.0	11	0.3	0.1
300	12.58	35.76	27.09	1.9	1.3	13	0.4	0.4
400	9.70	35.39	27.33	2.3	1.8	26	0.4	0.7
500	7.88	34.99	27.30	2.7	2.2	25	0.6	0.3
600	6.77	34.88	27.38	2.8	2.1	20	0.6	0.1
700	5.88	34.85	27.47	2.8	2.0	17	0.6	0.1
800	5.41	34.92	27.59	2.7	1.9	21	0.6	0.2
1000	4.72	35.01	27.74	3.3	1.6	22	0.6	0.2
1200	4.28	35.00	27.78	2.8	1.7	12	0.4	0.8

STATION NO. 5-2C-22

DATE 29 5 1952 LAT. 25° 33' N. LONG. 85° 07' W.
 Day Month Year
 TIME 0009 DEPTH 1799 MAX. SAMPLE DEPTH -- WIRE ANGLE 20 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL 270 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 82.1 °F. 77.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.8 in. REL. HUM. 80 % WIND 250 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.71	36.35	0.8	0.0	1	1.0	0.6
9	27.07	36.45	0.6	0.0	1	0.1	---
23	24.59	36.81	0.6	0.2	3	0.0	0.1
46	22.23	36.74	1.6	0.3	3	0.6	0.9
94	19.90	36.65	0.9	0.4	7	0.2	0.2
143	16.98	36.22	1.2	0.5	9	0.5	0.0
191	15.65	*36.74	1.4	0.8	-	0.4	0.2
240	14.41	36.27	1.6	0.9	11	0.4	0.1
289	13.01	35.61	2.1	1.3	22	0.0	0.4
387	10.59	35.32	2.2	1.9	--	0.6	0.3
485	8.91	35.07	2.7	1.9	21	---	0.2
583	7.34	34.96	2.8	1.9	29	0.4	0.0
782	5.58	34.95	2.6	1.9	19	0.4	0.4
982	4.76	35.01	2.6	1.6	26	0.5	1.2
1183	4.34	34.99	2.4	1.5	21	0.8	0.2

*Values not used in drawing smooth curves.

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.71	36.35	23.53	0.8	0.0	1	1.0	0.6
10	26.50	36.50	24.03	0.6	0.0	1	0.1	0.4
20	24.60	36.78	24.83	0.6	0.1	3	0.0	0.2
30	23.56	36.80	25.16	0.9	0.2	3	0.2	0.3
50	21.73	36.73	25.63	1.5	0.3	3	0.6	0.8
75	20.52	36.69	25.93	1.2	0.4	5	0.4	0.5
100	19.58	36.57	26.09	0.9	0.4	7	0.2	0.2
150	16.68	36.23	26.55	1.2	0.5	9	0.5	0.0
200	15.46	36.34	26.92	1.4	0.8	10	0.4	0.2
250	14.09	35.91	26.89	1.7	1.0	13	0.3	0.2
300	12.72	35.58	26.92	2.1	1.4	22	0.1	0.4
400	10.31	35.28	27.14	2.3	1.9	21	0.9	0.3
500	8.68	35.05	27.23	2.7	1.9	22	2.6	0.2
600	7.18	34.95	27.38	2.8	1.9	28	0.4	0.0
700	6.18	34.94	27.51	2.7	1.9	23	0.4	0.2
800	5.48	34.95	27.60	2.6	1.9	20	0.4	0.5
1000	4.70	35.01	27.74	2.6	1.6	26	0.5	1.1
1200	(4.34)	(34.99)	27.76	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-2C-23

DATE 30 5 1952 LAT. 26° 00' N. LONG. 85° 15' W.
 Day Month Year
 TIME 0451 DEPTH 1820 MAX. SAMPLE DEPTH --- WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- -- TEMP. 81.0 °F. 76.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.87 in. REL. HUM. 80 % WIND 180 ° T. 2 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	27.15	37.11	0.6	0.0	0	0.0	0.4
10	27.20	37.44	0.6	0.0	2	0.2	0.6
24	24.80	37.23	1.6	0.1	1	0.5	0.3
49	22.96	37.29	1.6	0.0	1	0.2	0.4
98	19.74	36.53	0.8	0.4	7	0.0	0.1
148	16.73	36.60	2.0	0.7	7	0.5	0.0
198	14.91	36.78	1.8	0.9	14	0.0	0.4
248	13.24	35.70	1.7	1.1	17	0.1	0.2
297	11.90	35.46	1.6	1.2	17	0.2	0.0
396	9.77	35.17	2.7	1.5	21	0.9	0.6
495	8.33	35.00	2.9	1.9	17	0.7	---
594	6.96	35.01	2.8	2.0	31	0.8	0.5
789	5.54	34.93	3.4	1.7	27	1.7	0.9
986	4.66	35.01	2.8	1.6	17	1.2	0.3
1185	4.33	34.97	2.5	1.6	13	0.0	0.4
1489	4.24	35.03	1.7	1.5	21	---	0.7

STATION NO. 5-2C-23

Depth	Temp. °C	VALUES AT STANDARD DEPTHS						
		Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.15	37.11	24.28	0.6	0.0	0	0.0	0.4
10	27.20	37.44	24.51	0.6	0.0	2	0.2	0.6
20	26.10	37.24	24.72	1.3	0.1	1	0.4	0.4
30	24.23	37.24	25.28	1.6	0.1	1	0.5	0.3
50	22.84	36.82	25.38	1.6	0.0	1	0.2	0.4
75	21.09	36.57	25.69	1.2	0.2	4	0.1	0.2
100	19.67	36.53	26.04	0.8	0.4	7	0.0	0.1
150	16.56	36.61	26.87	2.0	0.7	7	0.5	0.0
200	14.80	36.77	27.40	1.8	0.9	14	0.0	0.4
250	13.18	35.66	26.89	1.7	1.0	17	0.1	0.2
300	11.84	35.45	26.99	1.6	1.2	17	0.2	0.0
400	9.70	35.17	27.16	2.7	1.5	21	0.9	0.6
500	8.23	35.00	27.26	2.9	1.9	18	0.7	0.6
600	6.90	35.01	27.46	2.8	2.0	31	0.8	0.5
700	6.10	34.98	27.54	3.1	1.8	29	1.3	0.7
800	5.48	34.93	27.58	3.3	1.7	26	1.7	0.9
1000	4.62	35.01	27.74	2.8	1.6	17	1.1	0.3
1200	4.31	34.97	27.75	2.5	1.6	13	0.1	0.4
1500	(4.23)	(35.04)	27.81	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-20-24

DATE 30 5 1952 LAT. 26° 00' N. LONG. 84° 41' W.
 Day Month Year
 TIME 1103 DEPTH 600 MAX. SAMPLE DEPTH -- WIRE ANGLE 4 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 2 SWELL 220 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 9 TEMP. 80.4 °F. 76.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.87 in. REL. HUM. 83 % WIND 220 ° T. 2 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.14	37.10	1.3	0.0	1	1.1	0.0
15	27.15	36.56	0.2	0.0	2	0.4	0.0
40	25.51	36.33	0.8	0.0	1	0.2	0.0
90	21.99	37.00	1.2	0.0	2	0.0	0.0
165	17.86	36.33	1.8	0.6	11	0.2	0.1
239	15.16	*36.73	1.6	0.8	11	---	0.4
289	13.58	35.73	1.9	1.1	--	---	0.3
338	12.34	35.57	2.2	1.6	22	0.2	0.0
388	11.03	35.39	2.2	---	23	0.4	0.2
437	9.44	35.19	2.5	1.8	29	0.0	0.2
537	8.06	*35.62	2.8	1.8	15	0.4	0.0
637	6.73	34.85	3.0	2.0	16	0.4	0.1

*Values not used in drawing smooth curves.

STATION NO. 5-2C-24

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.14	37.10	23.95	1.3	0.0	1	1.1	0.0
10	27.65	36.90	23.96	0.6	0.0	2	0.6	0.0
20	26.80	36.47	23.91	0.3	0.0	2	0.4	0.0
30	26.14	36.37	24.05	0.6	0.0	1	0.3	0.0
50	24.85	36.43	24.49	0.9	0.0	1	0.2	0.0
75	22.90	36.99	25.50	1.1	0.0	2	0.1	0.0
100	21.45	36.98	25.90	1.3	0.1	3	0.0	0.0
150	18.65	36.42	26.22	1.7	0.5	9	0.2	0.1
200	16.35	36.06	26.50	1.7	0.7	11	0.6	0.2
250	14.76	35.85	26.70	1.7	0.9	12	1.2	0.4
300	13.29	35.70	26.90	2.0	1.2	18	1.4	0.2
400	10.75	35.33	27.10	2.3	1.7	24	0.3	0.2
500	8.51	35.07	27.27	2.7	1.8	20	0.3	0.1
600	7.21	34.90	27.33	2.9	1.9	16	0.4	0.1

STATION NO. 5-2C-25

DATE 30 5 1952 LAT. 26° 00' N. LONG. 83° 43' W.
 Day Month Year
 TIME 1910 DEPTH 48 MAX. SAMPLE DEPTH -- WIRE ANGLE 10 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 03 SEA 2 SWELL 190 ° T. 3 ft.
 Code Ac Code Code Direction Hgt.
5 sec. CLOUDS Cu 10 TEMP. 82.5 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.86 in. REL. HUM. 80 % WIND 190 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.38	36.85	2.5	0.2	1	0.0	0.0
10	28.38	36.35	1.2	0.0	2	0.3	0.0
24	26.79	36.69	2.0	0.0	1	0.2	0.0
49	25.01	36.55	0.7	0.0	3	0.3	0.2
63	22.76	36.80	1.2	0.1	1	0.0	0.3
73	21.95	36.75	0.8	0.1	3	0.3	0.6

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.38	36.85	23.68	2.5	0.2	1	0.0	0.0
10	28.38	36.35	23.31	1.2	0.0	2	0.3	0.0
20	27.65	36.48	23.65	1.8	0.0	1	0.2	0.1
30	26.25	36.69	24.25	1.7	0.0	1	0.2	0.1
50	24.90	36.58	24.59	0.7	0.0	2	0.3	0.2
75	(21.90)	(36.73)	25.58	-	-	-	-	-

() Extrapolated values.

STATION NO. 5-2C-26

DATE 30 5 1952 LAT. 26° 00' N. LONG. 83° 00' W.
Day Month Year
 TIME 2350 DEPTH 22 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR 00 WEATHER 03 SEA 2 SWELL 230 ° T. 5 ft.
Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 10 TEMP. 78.8 °F. 74.7 °F.
Period Type Amount Dry Wet
 BAR. 29.06 in. REL. HUM. 83 % WIND 230 ° T. 1 VIS. 8
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.66	35.16	1.0	0.0	2	0.6	0.0
10	25.94	35.97	2.0	0.0	-	0.4	0.5
30	19.92	36.07	1.9	0.2	1	0.3	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.66	35.16	22.97	1.0	0.0	2	0.6	0.0
10	25.94	35.97	23.81	2.0	0.0	2	0.4	0.5
20	22.85	36.04	23.79	1.9	0.1	1	0.4	0.4
30	19.92	36.07	25.62	1.9	0.2	1	0.3	0.3

STATION NO. 5-2C-27

DATE 31 5 1952 LAT. 26° 07' N. LONG. 82° 20' W.
 Day Month Year
 TIME 0422 DEPTH 10 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 02 SEA 1 SWELL -- ° T. - ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 79.0 °F. 75.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.85 in. REL. HUM. 83 % WIND 220 ° T. 1 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.73	37.43	2.2	0.1	1	0.0	0.3
15	25.14	36.17	1.2	0.1	1	0.4	1.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Total σ _t	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.73	37.43	24.66	2.2	0.1	0.0	0.3
10	25.85	36.45	24.20	1.5	0.1	0.3	0.9

STATION NO. 5-2C-28

DATE 31 5 1952 LAT. 26° 34' N. LONG. 82° 36' W.
 Day Month Year
 TIME 0809 DEPTH 12 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 03 SEA 2 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- -- TEMP. 78.2 °F. 72.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.83 in. REL. HUM. 79 % WIND 170 ° T. 2 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.67	36.22	1.0	0.0	2	-	0.3
10	26.68	36.12	0.8	0.0	2	0.7	0.5
20	25.15	35.94	1.9	0.0	2	0.1	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.67	36.22	23.76	1.0	0.0	2	-	0.3
10	26.68	36.12	23.69	0.8	0.0	2	0.7	0.5
20	25.15	35.94	24.02	1.9	0.0	2	0.1	0.3

STATION NO. 5-2C-29

DATE 31 5 1952 LAT. 27° 12' N. LONG. 82° 43' W.
 Day Month Year
 TIME 1229 DEPTH 7 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 20 WEATHER 01 SEA 1 SWELL 180 ° T. 3 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 1 TEMP. 81.0 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 84 % WIND 190 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.18	35.52	1.1	0.0	1	0.0	0.7
7	27.17	36.80	1.1	0.0	0	0.2	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.18	35.52	23.08	1.1	0.0	1	0.0	0.7

STATION NO. 5-2C-30

DATE 1 6 1952 LAT. 27° 24' N. LONG. 83° 26' W.
 Day Month Year
 TIME 1011 DEPTH 22 MAX. SAMPLE DEPTH 42 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 0 SWELL -- ° T. - ft.
 Code Ci Code Code Direction Hgt.
-- sec. CLOUDS Cu 1 TEMP. 78.2 °F. 73.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.88 in. REL. HUM. 83 % WIND 315 ° T. 1 VIS 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.37	34.83	0.8	0.0	2	0.6	0.5
20	21.83	35.62	0.4	0.1	2	1.2	1.2
35	19.66	36.31	0.6	0.5	3	0.2	0.7

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.37	34.83	22.81	0.8	0.0	2	0.6	0.5
10	25.50	35.25	23.40	0.6	0.1	2	0.9	0.9
20	21.83	35.62	24.76	0.4	0.1	2	1.2	1.2
30	20.31	36.10	25.54	0.5	0.5	3	0.5	0.9

STATION NO. 5-2C-31

DATE 1 6 1952 LAT. 27° 17' N. LONG. 84° 11' W.
 Day Month Year
 TIME 1517 DEPTH 45 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 0 SWELL 150 ° T. 1 ft.
 Code Cc Code Code Direction Hgt.
5 SEC. CLOUDS As 3 TEMP. 79.8 °F. 75.0 °F.
 Period Type Amount Dry. Wet
 BAR. 29.94 in. REL. HUM. 79 % WIND 330 ° T. 1 VIS 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.42	33.24	0.4	0.1	0	0.4	1.2
10	25.80	34.69	0.4	0.0	0	0.4	1.4
25	22.80	36.35	0.3	0.1	3	0.2	0.5
50	19.19	36.29	1.0	0.2	3	-	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.42	33.24	21.60	0.4	0.1	0	0.4	1.2
10	25.80	34.69	22.88	0.4	0.0	0	0.4	1.4
20	23.75	35.85	24.38	0.3	0.1	2	0.3	0.8
30	22.12	36.35	25.23	0.4	0.1	3	0.5	0.4
50	19.19	36.29	25.98	1.0	0.2	3	1.7	0.2

STATION NO. 5-2C-32

DATE 1 6 1952 LAT. 27° 08' N. LONG. 85° 07' W.
 Day Month Year
 TIME 2251 DEPTH 530 MAX. SAMPLE DEPTH -- WIRE ANGLE 5 °
 GCT 00- Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 0 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Cc,Ac,Ci 3 TEMP. 84.7 °F. 75.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 66% WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.28	36.24	1.0	0.0	0	0.5	0.2
10	27.67	36.10	0.8	0.1	0	0.6	0.1
25	26.94	36.05	0.4	0.0	9	0.5	0.6
50	26.32	36.27	0.3	0.0	0	0.2	0.9
100	22.04	36.71	0.8	0.2	3	0.6	0.2
149	19.44	36.62	---	---	7	0.0	0.6
198	17.95	36.40	1.0	0.5	-	0.1 ^a	---
247	16.49	---	0.9	0.6	11	0.0	0.4
297	14.95	36.06	1.3	0.8	8	0.4	0.0
346	13.48	35.75	1.6	1.1	14	0.0	0.2
395	11.95	35.53	1.8	1.3	17	0.5	0.5
444	10.96	35.37	2.2	1.5	18	0.8 ^a	0.8
494	9.79	35.25	2.1	1.9	14	1.0	0.2
593	8.11	35.03	2.4	2.0	21	0.9	0.7
693	6.79	34.93	3.2	2.0	29	0.2	0.0
793	5.95	34.92	2.9	1.8	19	0.2	0.2

(a) Green carbohydrates.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	St	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	28.28	36.24	23.26	1.0	0.0	0	0.5	0.2
10	27.67	36.10	23.36	0.8	0.1	0	0.6	0.1
20	27.17	36.05	23.48	0.5	0.0	3	0.5	0.4
30	26.88	36.06	23.58	0.4	0.0	3	0.4	0.7
50	26.32	36.27	23.92	0.3	0.0	0	0.2	0.9
75	24.85	36.64	24.65	0.6	0.1	2	0.4	0.8
100	22.04	36.71	25.53	0.8	0.2	3	0.6	0.7
150	19.42	36.60	26.16	0.9	0.4	7	0.0	0.6
200	17.89	36.39	26.38	1.0	0.5	9	0.1	0.5
250	16.43	36.23	26.61	0.9	0.6	11	0.0	0.4
300	14.91	36.00	26.78	1.3	0.7	8	0.4	0.0
400	11.90	35.51	27.03	1.8	1.3	17	0.5	0.5
500	9.78	35.24	27.20	2.1	1.9	14	1.0	0.8
600	8.05	35.02	27.30	2.5	2.0	22	0.9	0.7
700	6.71	34.93	27.42	3.2	2.0	28	0.2	0.0
800	(5.93)	(34.92)	27.51	-	1.8	--	-	-

() Extrapolated values.

STATION NO. 5-2C-33

DATE 2 6 1952 LAT. 27° 05' N. LONG. 85° 40' W.
 Day Month Year
 TIME 0357 DEPTH 1760 MAX. SAMPLE DEPTH -- WIRE ANGLE 35°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 0 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
-- sec. CLOUDS Cu 4 TEMP. 80.1 °F. 74.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 79 % WIND 025 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	PO ₄ -P			
0	27.62	36.13	0.8	0.0	0	0.2	0.5
8	27.66	36.13	0.4	0.1	0	0.1	0.2
20	27.13	36.09	0.4	0.0	1	0.5	0.2
40	25.80	---	0.6	0.9**	0	0.4	0.6
76	22.51	36.63	0.8	0.2	2	2.7	0.1
113	20.41	36.70	0.8	0.4	4	---	0.0
149	19.10	36.65	0.6	0.3	2	0.0	0.6
184	17.90	36.42	0.8	0.5	7	0.0 ^a	1.2
217	16.52	36.20	1.7	0.7	9	0.0	0.0
280	13.94	35.78	1.6	1.1	11	0.2	0.5
341	12.23	35.52	2.4	1.7	15	0.3	0.0
400	10.83	35.43	2.2	1.4	22	0.3	0.0
518	8.38	35.07	2.6	2.4	26	1.2	0.0
641	6.96	34.97	2.8	2.0	21	0.4	0.5
774	5.74	34.97	2.8	1.9	21	0.4	0.7
1013	4.76	34.91	---	1.7	19	0.0	0.4

** Possibly contaminated.

(a) Green carbohydrates.

STATION NO. 5-2C-33

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.62	36.13	23.40	0.8	0.0	0	0.2	0.5
10	27.63	36.12	23.38	0.4	0.1	0	0.2	0.2
20	27.13	36.09	23.52	0.4	0.0	1	0.5	0.2
30	26.33	36.11	23.79	0.5	0.0	1	0.5	0.4
50	24.72	36.26	24.40	0.7	0.1	1	1.0	0.5
75	22.52	36.63	25.33	0.8	0.2	2	2.6	0.1
100	21.00	36.69	25.80	0.8	0.3	3	1.8	0.0
150	19.03	36.64	26.29	0.6	0.3	2	0.0	0.6
200	17.22	36.30	26.48	1.2	0.6	8	0.0	0.6
250	15.08	35.97	26.72	1.7	0.9	10	0.1	0.3
300	13.34	35.65	26.85	1.9	1.3	12	0.2	0.3
400	10.83	35.43	27.16	2.2	1.4	22	0.3	0.0
500	8.65	35.10	27.27	2.5	2.2	25	1.1	0.0
600	7.37	34.99	27.38	2.7	2.1	22	0.7	0.3
700	6.37	34.97	27.50	2.8	2.0	21	0.4	0.6
800	5.56	34.97	27.60	-	1.9	21	0.4	0.7
1000	4.78	34.91	27.65	-	1.7	19	0.0	0.4

STATION NO. 5-20-34

DATE 2 6 1952 LAT. 27° 28' N. LONG. 85° 23' W.
 Day Month Year
 TIME 0908 DEPTH 400 MAX. SAMPLE DEPTH -- WIRE ANGLE 0°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- -- TEMP. 79.3 °F. 74.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.92 in. REL. HUM. 83 % WIND 030 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.32	36.40	---	0.0	17	0.4	0.0
10	27.18	*37.30	1.9	0.0	0	0.0	0.0
25	24.81	36.44	1.2	0.0	0	0.0	0.6
50	22.49	36.36	0.8	0.2	3	---	0.6
100	19.45	*37.65	1.7	0.4	6	0.7	0.8
150	16.70	36.24	1.5	0.7	11	0.2	0.2
200	15.10	*36.94	1.6	0.9	9	0.2	0.3
250	13.65	35.82	1.9	1.1	14	0.5	0.4
300	12.52	*36.24	2.0	1.3	16	---	0.2
400	10.33	35.24	2.4	1.4	20	0.0 ^a	1.5
500	8.64	35.08	2.8	1.9	19	0.6	0.0
600	7.16	---	3.0	2.0	30	0.0	0.0

*Values not used in drawing smooth curves.
 (a) Green carbohydrates.

STATION NO. 5-2C-34

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.32	36.40	23.69	-	0.0	17	0.4	0.0
10	27.18	36.42	23.75	1.9	0.0	0	0.0	0.0
20	25.60	36.44	24.27	1.4	0.0	0	0.0	0.4
30	24.40	36.44	24.64	1.1	0.0	1	0.0	0.6
50	22.49	36.36	25.14	0.8	0.2	3	0.2	0.6
75	20.85	36.31	25.56	1.0	0.3	5	0.5	0.7
100	19.45	36.28	25.90	1.1	0.4	6	0.7	0.8
150	16.70	36.24	26.56	1.5	0.7	11	0.2	0.2
200	15.10	36.05	26.78	1.6	0.9	9	0.2	0.3
250	13.65	35.82	26.92	1.9	1.1	14	0.5	0.4
300	12.52	35.59	26.97	2.0	1.3	16	0.3	0.2
400	10.33	35.24	27.10	2.4	1.4	20	0.0	1.5
500	8.64	35.08	27.25	2.8	1.9	19	0.6	0.0
600	7.16	---	---	3.0	2.0	30	0.0	0.0

STATION NO. 5-2C-35

DATE 2 6 1952 LAT. 28° 07' N. LONG. 85° 50' W.
 Day Month Year
 TIME 1426 DEPTH 64 MAX. SAMPLE DEPTH -- WIRE ANGLE 6 °
 GCT Paths. Meters
 WATER COLOR -- WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
-- sec. CLOUDS Cu 1 TEMP. 80.9 °F. 76.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 84 % WIND 020 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.57	---	1.0	0.1	1	-	0.2
10	24.82	36.17	0.8	0.0	2	1.0	0.4
25	23.88	36.40	2.2	0.1	0	0.4	0.6
50	21.74	36.37	0.9	0.0	1	0.4	0.4
74	20.48	36.64	1.3	0.5	5	0.4	0.0
99	19.36	36.60	1.3	0.5	6	0.3	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.57	(36.11)	23.72	1.0	0.1	1	-	0.2
10	24.82	36.17	24.31	0.8	0.0	2	1.0	0.4
20	24.08	36.39	24.69	1.7	0.0	1	0.6	0.5
30	23.60	36.39	24.84	1.9	0.0	0	0.4	0.6
50	21.74	36.37	25.36	0.9	0.0	1	0.4	0.4
75	20.47	36.64	25.91	1.3	0.5	5	0.4	0.0
100	(19.36)	(36.60)	26.17	-	-	-	-	-

() Extrapolated values.

STATION NO. 5-2C-36

DATE 2 6 1952 LAT. 28° 30' N. LONG. 84° 32' W.
 Day Month Year
 TIME 1901 DEPTH 29 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
-- sec. CLOUDS -- 0 TEMP. 84.0 °F. 77.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 73 % WIND 060 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.40	33.42	7.3	0.7	0	3.6	1.4
2	27.03	34.94	2.0	0.1	1	0.6	0.4
7	25.18	34.43	0.8	0.0	0	0.1	0.0
12	22.01	35.82	1.2	0.0	1	-	0.5
17	19.88	36.15	0.6	0.1	-	0.0	0.6
22	19.09	36.18	0.7	0.1	1	1.0	0.4
27	18.35	36.22	1.0	0.0	1	0.2	0.4
32	17.64	36.22	1.0	0.2	2	0.3	0.8
42	16.44	36.11	2.1	0.9	9	-	1.4
52	16.40	---	2.1	0.9	8	0.4	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.40	33.42	21.42	7.3	0.7	0	3.6	1.4
10	23.00	35.29	24.18	1.0	0.0	1	0.1	0.3
20	19.40	36.17	25.83	0.7	0.1	1	0.6	0.5
30	17.80	36.22	26.27	1.0	0.1	1	0.3	0.6
50	16.41	---	---	2.1	0.9	8	0.4	0.4

STATION NO. 5-2C-36A

DATE 2 6 1952 LAT. 28° 30' N. LONG. 84° 32' W.
 Day Month Year
 TIME 1943 DEPTH 28 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 00 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- 0 TEMP. 84.0 °F. 77.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 73 % WIND 060 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.19	33.48	1.0	0.0	1	0.0	0.3
10	23.99	35.34	1.3	0.1	0	-	0.2
25	18.87	36.20	0.9	0.2	1	0.5	0.2
35	17.44	36.20	1.4	0.3	5	0.4	0.2
45	16.42	36.09	1.8	0.8	11	0.0a	0.9

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.19	33.48	21.54	1.0	0.0	1	0.0	0.3
10	23.99	35.34	23.92	1.3	0.1	0	0.2	0.2
20	20.40	36.18	25.57	1.0	0.1	1	0.4	0.2
30	18.20	36.20	26.16	1.2	0.2	3	0.5	0.2

(a) Green carbohydrates.

STATION NO. 5-2C-37

DATE 3 6 1952 LAT. 29° 19' N. LONG. 84° 02' W.
 Day Month Year
 TIME 0324 DEPTH 10 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS Ac 1 TEMP. 86.1 °F. 76.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 80% WIND 290 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.39	34.94	0.9	0.1	4	0.4	0.5
5	23.68	35.33	0.8	0.1	0	0.0	-
15	22.84	35.73	0.8	0.1	0	0.0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.39	34.94	22.57	0.9	0.1	4	0.4	0.5
10	23.26	35.53	24.28	0.8	0.1	0	0.0	0.2

STATION NO. 5-2C-38

DATE 3 6 1952 LAT. 29° 15' N. LONG. 84° 46' W.
 Day Month Year
 TIME 0830 DEPTH 28 MAX. SAMPLE DEPTH -- WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER -- SEA 1 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 80.1 °F 76.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.91 in. REL. HUM. 83 % WIND 280 ° T. 1 VIS. --
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.99	35.47	0.0	0.0	-	0.4	0.5
12	24.04	35.70	0.5	0.0	1	1.3	0.2
27	20.09	36.20	0.8	0.2	1	0.3	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.99	35.47	23.10	0.0	0.0	-	0.4	0.5
10	24.50	35.63	23.99	0.4	0.0	-	1.1	0.2
20	21.80	35.95	25.02	0.7	0.1	1	0.8	0.4

STATION NO. 5-2C-39

DATE 3 6 1952 LAT. 28° 54' N. LONG. 85° 25' W.
 Day Month Year
 TIME 1307 DEPTH 50 MAX. SAMPLE DEPTH 39 WIRE ANGLE 7°
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 0 SWELL --- ° T. -- ft.
 Code Code Code Direction Hgt.
-- sec. CLOUDS As 1 TEMP. 86.0 °F. 77.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 70 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.75	33.35	0.6	0.0	0	-	0.4
10	24.46	34.45	1.0	0.1	1	1.1	0.0
25	22.40	36.15	0.0	0.0	2	0.5	0.0
50	20.63	36.20	0.0	0.0	1	0.2	0.1
75	19.39	36.34	1.5	0.4	5	0.2	0.6

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.75	33.35	21.57	0.6	0.0	0	-	0.4
10	24.46	34.45	23.11	1.0	0.1	1	1.1	0.0
20	23.25	35.58	24.32	0.3	0.0	2	0.7	0.0
30	22.00	36.17	25.13	0.0	0.0	2	0.4	0.0
50	20.63	36.20	25.53	0.0	0.0	1	0.2	0.1
75	19.39	36.34	25.97	1.5	0.4	5	0.2	0.6

STATION NO: 5-2C-40

DATE 3 6 1952 LAT. 28° 33' N. LONG. 86° 06' W.
 Day Month Year
 TIME 1829 DEPTH 175 MAX. SAMPLE DEPTH -- WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 0 SWELL -- ° T. -- ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS C1 9 TEMP. 81.3 °F. 76.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 84 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	27.00	33.96	0.6	0.1	1	0.6	0.1
10	24.99	34.99	1.0	0.0	2	0.4	-
24	22.79	36.36	0.6	0.0	2	-	0.0
49	21.75	---	0.6	0.0	1	0.3	0.2
98	19.72	36.49	0.9	0.3	8	0.4	0.2
147	17.59	36.54	1.0	0.7	10	0.2	0.0
197	15.56	36.08	1.3	0.8	14	-	0.3
247	13.96	35.84	1.8	1.1	--	0.0	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	27.00	33.96	21.96	0.6	0.0	1	0.6	0.1
10	24.99	34.99	23.36	1.0	0.0	2	0.4	0.1
20	22.92	35.91	24.67	0.7	0.0	2	0.4	0.0
30	22.50	36.38	25.15	0.6	0.0	2	0.3	0.0
50	21.68	36.43	25.42	0.6	0.0	1	0.3	0.2
75	20.53	36.47	25.76	0.8	0.2	5	0.4	0.2
100	19.60	36.49	26.02	0.9	0.3	8	0.4	0.2
150	17.40	36.53	26.61	1.0	0.7	10	0.2	0.0
200	15.45	36.05	26.70	1.3	0.8	14	0.1	0.3
250	(13.90)	(35.84)	26.88	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-2C-41

DATE 3 6 1952 LAT. 28° 48' N. LONG. 86° 51' W.
 Day Month Year
 TIME 2335 DEPTH 320 MAX. SAMPLE DEPTH -- WIRE ANGLE 10 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 1 SWELL 290 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS As 1 TEMP. 81.8 °F. 74.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.96 in. REL. HUM. 73 % WIND 290 ° T. 1 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.83	34.02	1.0	0.0	0	0.1	0.0
10	25.11	35.37	0.7	0.0	1	0.3	0.0
25	23.43	36.09	0.5	0.0	1	2.0	0.2
49	22.32	36.24	0.6	0.0	1	0.3	---
98	20.22	36.44	1.0	0.4	5	0.2	0.0
147	17.18	36.36	1.4	0.6	12	0.2	0.1
196	---	36.06	2.0	0.8	8	0.8	0.1
244	13.56	35.70	1.6	1.1	20	0.7	0.3
293	12.15	35.53	2.2	1.4	23	0.2	0.1
342	10.92	35.41	2.2	1.5	26	0.0	0.0
440	9.09	35.16	2.8	1.8	31	0.2	0.1
490	8.12	35.01	2.7	1.9	30	0.4	0.2

STATION NO. 5-2C-41

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.83	34.02	22.06	1.0	0.0	0	0.1	0.0
10	25.11	35.37	23.61	0.7	0.0	1	0.3	0.0
20	23.65	35.81	24.38	0.6	0.0	1	1.4	0.1
30	23.05	36.18	24.84	0.5	0.0	1	1.6	0.2
50	22.19	36.30	25.18	0.6	0.0	1	0.3	0.2
75	21.05	36.40	25.57	1.0	0.4	5	0.2	0.1
100	20.12	36.44	25.85	1.4	0.6	12	0.2	0.1
150	17.00	36.34	26.56	2.0	0.8	9	0.8	0.1
200	15.10	35.97	26.72	1.7	1.1	20	0.7	0.3
250	13.39	35.66	26.84	2.2	1.4	23	0.2	0.1
300	11.99	35.51	27.01	2.3	1.5	27	0.0	0.0
400	9.77	35.27	27.22	2.7	1.9	30	0.3	0.2
500	(8.01)	(35.00)	27.29	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-20-42

DATE 4 6 1952 LAT. 28° 50 N. LONG. 87° 30 W.
 Day Month Year
 TIME 0445 DEPTH 860 MAX. SAMPLE DEPTH -- WIRE ANGLE 4 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 03 SEA 1 SWELL --- ° T. --- ft.
 Code Code Code Direction Hgt.
 --- sec. CLOUDS Ci,Cu 10 TEMP. 80.6 °F. 72.3 °F.
 Period Type Amount Dry Wet
 BAR. 29.98 in. REL. HUM. 65 % WIND 330 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.93	35.23	1.5	---	-	---	---
10	25.67	35.77	1.0	0.0	1	0.6	0.0
25	23.81	36.32	0.8	0.0	1	0.1	0.0
50	22.20	36.29	1.0	0.0	0	0.2	0.3
99	20.08	36.45	0.8	0.3	5	0.8	0.4
149	17.29	36.33	1.4	0.7	7	---	0.0
198	15.67	36.09	1.7	0.8	15	---	0.2
248	14.31	35.84	1.6	1.0	19	0.0	0.0
298	12.98	35.71	1.8	1.2	18	0.1	0.0
397	10.78	35.34	2.5	1.6	24	0.2	0.2
497	8.12	34.96	2.8	2.5	28	0.2	1.4
596	6.46	34.94	3.2	2.0	32	0.0	0.2
795	5.37	34.94	2.6	1.8	24	---	0.7
1094	4.54	34.97	2.3	1.6	25	0.2	0.0
1493	4.26	35.01	---	1.5	22	0.6 ^a	0.0

(a) Green carbohydrates.

STATION NO. 5-2C-42

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.93	35.23	22.93	1.5	-	-	-	-
10	25.67	35.77	23.74	1.0	0.0	1	0.6	0.0
20	24.15	36.15	24.49	0.9	0.0	1	0.3	0.0
30	23.40	36.31	24.84	0.8	0.0	1	0.1	0.1
50	22.20	36.29	25.18	1.0	0.0	0	0.2	0.3
75	21.15	36.39	25.53	0.9	0.2	3	0.5	0.4
100	20.08	36.45	25.86	0.8	0.3	5	0.8	0.4
150	17.28	36.32	26.48	1.4	0.7	7	0.5	0.0
200	15.60	36.08	26.69	1.7	0.8	15	0.3	0.2
250	14.27	35.83	26.79	1.6	1.0	19	0.0	0.0
300	12.98	35.70	26.96	1.8	1.2	18	0.1	0.0
400	10.71	35.33	27.11	2.5	1.6	24	0.2	0.2
500	8.05	34.96	27.25	2.8	2.5	28	0.2	1.4
600	6.40	34.94	27.47	3.2	2.0	32	0.0	0.2
700	5.74	34.94	27.55	2.9	1.9	28	0.0	0.5
800	5.35	34.94	27.60	2.6	1.8	24	0.1	0.7
1000	4.79	34.96	27.69	2.4	1.7	25	0.2	0.3
1200	4.35	34.98	27.76	-	1.6	24	0.3	0.0
1500	(4.26)	(35.01)	27.79	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-2C-43

DATE 4 6 1952 LAT. 28° 44' N. LONG. 88° 12' W.
 Day Month Year
 TIME 1201 DEPTH 960 MAX. SAMPLE DEPTH -- WIRE ANGLE 6 °
 GCT Faths. Meters
 WATER COLOR -- WEATHER 01 SEA 0 SWELL -- ° T. 0 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Ci,As 2 TEMP. 80.9 °F. 73.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 68 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.32	36.02	2.8	0.0	1	0.4	0.4
10	25.87	36.09	0.4	0.0	1	0.0	0.4
25	24.17	36.26	0.6	0.0	-	0.0	0.3
50	23.44	36.26	0.6	0.0	1	---	0.0
99	22.53	36.42	0.2	0.1	1	0.0	0.4
148	20.34	36.71	0.8	0.3	5	---	1.3
198	17.94	36.49	1.1	0.5	6	0.4	---
297	15.29	35.98	1.2	0.9	8	0.6	0.1
396	11.92	35.50	1.8	1.5	13	0.2	0.0
495	9.85	35.17	2.4	1.7	24	1.2 ^a	0.4
594	7.99	35.01	2.2	1.8	17	0.0	0.1
792	5.91	34.96	2.8	1.9	--	0.6 ^a	0.6
990	5.04	34.96	2.0	1.9	19	0.3	0.5
1190	4.51	34.99	3.2	1.5	13	0.2	0.2
1486	4.22	34.98	2.0	1.4	12	1.0	0.1

(a) Green carbohydrates.

STATION NO. 5-2C-43

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.32	36.02	23.73	2.8	0.0	1	0.4	0.4
10	25.87	36.09	23.92	0.4	0.0	1	0.0	0.4
20	24.75	36.25	24.39	0.5	0.0	1	0.0	0.3
30	23.90	36.26	24.65	0.6	0.0	1	0.0	0.2
50	23.44	36.26	24.79	0.6	0.0	1	0.0	0.0
75	22.95	36.30	24.96	0.4	0.0	1	0.0	0.2
100	22.49	36.45	25.20	0.2	0.0	1	0.0	0.4
150	20.26	36.71	26.02	0.8	0.3	5	0.2	1.3
200	17.88	36.46	26.44	1.1	0.5	6	0.4	0.9
250	16.55	36.20	26.56	1.2	0.7	7	0.5	0.5
300	15.20	35.96	26.68	1.2	0.9	8	0.6	0.1
400	11.81	35.49	27.03	1.8	1.5	13	0.2	0.0
500	9.79	35.16	27.13	2.4	1.7	24	1.1	0.4
600	7.91	35.00	27.31	2.2	1.8	17	0.0	0.1
700	6.72	34.97	27.45	2.5	1.9	18	0.3	0.4
800	5.88	34.96	27.55	2.7	1.9	18	0.6	0.6
1000	5.01	34.96	27.66	2.1	1.9	19	0.3	0.5
1200	4.49	34.99	27.75	3.2	1.5	13	0.2	0.2
1500	(4.20)	(34.98)	27.77	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-2C-44

DATE 4 6 1952 LAT. 28° 35' N. LONG. 89° 00' W.
 Day Month Year
 TIME 1820 DEPTH 440 MAX. SAMPLE DEPTH -- WIRE ANGLE 4 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 0 SWELL -- ° T. 0 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS Ci,Cs 3 TEMP. 83.6 °F. 73.3 °F.
 Period Type Amount Dry Wet
 BAR. 30.01 in. REL. HUM. 59 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.75	32.00	0.3	0.0	2	0.0	0.1
10	24.99	34.89	0.6	0.1	1	0.4	0.0
25	24.13	36.58	0.3	0.0	1	0.0	0.0
50	23.40	36.44	0.4	0.0	1	0.3	0.0
99	22.47	36.51	0.4	0.1	2	0.4	0.6
147	20.15	36.73	0.5	0.3	6	0.4	0.1
196	18.08	36.44	1.1	0.4	9	0.0	0.0
245	16.66	36.26	1.0	0.6	7	0.6	0.0
294	14.94	36.16	1.0	0.9	11	0.4	0.2
393	11.94	35.84	2.0	1.4	16	---	0.4
492	9.65	*35.90	1.8	1.7	21	2.1	0.2
592	7.82	35.03	2.2	1.9	9	---	0.4
692	6.42	*35.39	2.1	1.9	12	0.0	1.1

*Values not used in drawing smooth curves.

STATION NO. 5-2C-44

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	27.75	32.00	20.24	0.3	0.0	2	0.0	0.1
10	24.99	35.89	24.04	0.6	0.1	1	0.4	0.0
20	24.31	36.57	24.76	0.4	0.0	1	0.1	0.0
30	23.98	36.57	24.86	0.3	0.0	1	0.1	0.2
50	23.40	36.44	24.93	0.4	0.0	1	0.3	1.1
75	22.95	36.47	25.09	0.4	0.0	2	0.4	0.5
100	22.46	36.51	25.26	0.4	0.1	2	0.4	0.0
150	20.00	36.73	26.11	0.5	0.3	6	0.4	0.6
200	17.99	36.43	26.39	1.1	0.4	9	0.0	0.1
250	16.55	36.26	26.61	1.0	0.6	7	0.6	0.0
300	14.72	36.14	26.93	1.1	0.9	11	0.5	0.0
400	11.79	35.81	27.28	2.0	1.4	16	1.3	0.2
500	9.54	35.29	27.27	1.8	1.7	20	2.0	0.4
600	7.71	(35.03)	27.36	2.2	1.9	9	1.0	0.2
700	(6.36)	---	---	-	-	--	-	-

() Extrapolated values.

STATION NO. 5-2C-45

DATE 5 6 1952 LAT. 28° 41' N. LONG. 90° 08' W.
 Day Month Year
 TIME 0259 DEPTH 27 MAX. SAMPLE DEPTH -- WIRE ANGLE 5°
 GCT Faths. Meters
 WATER COLOR - WEATHER 01 SEA 0 SWELL -- ° T. 0 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- -- TEMP. 80.8 °F. 74.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 72 % WIND -- ° T. 0 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	---	31.46					
10	24.55	35.88					
25	21.59	---					
28	21.34	---					
39	20.33	---					
45	19.78	36.38					

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	(27.60)	31.46	19.89					
10	24.55	35.88	24.16					
20	22.25	36.07	24.99					
30	21.15	36.22	25.40					

() Extrapolated values.

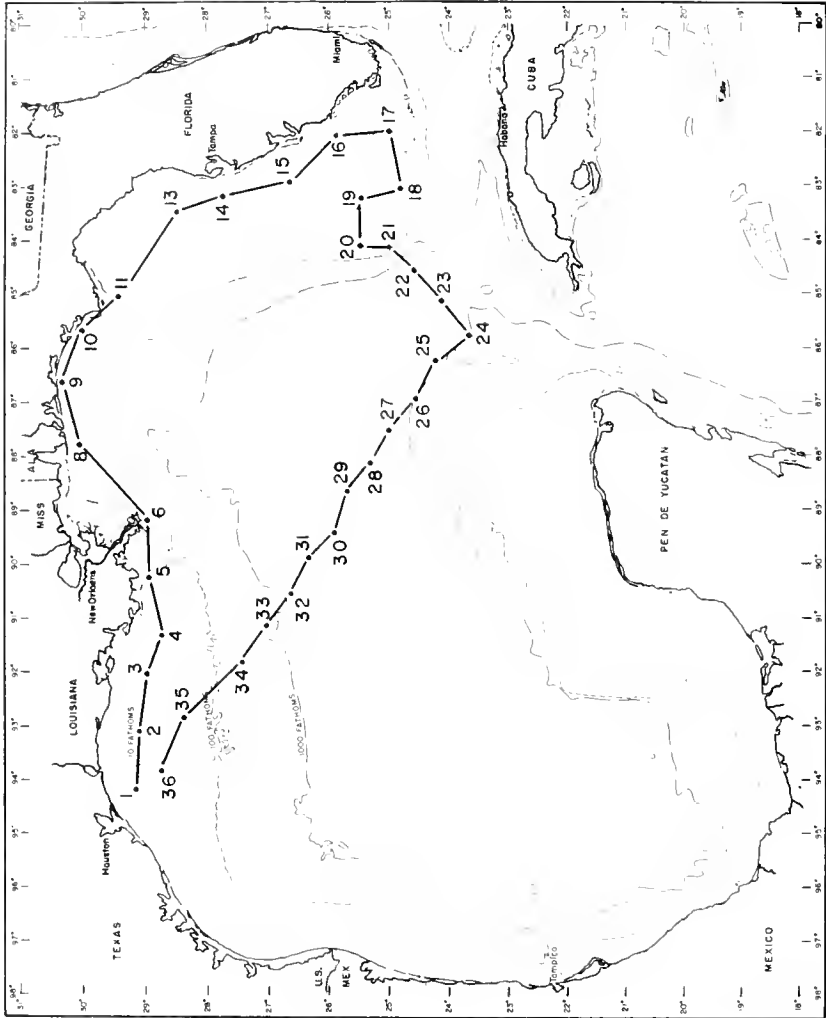


Figure 20.--Locations of stations occupied on Cruise 8-3C.

STATION NO. 8-3C-1

DATE 28 2 1953 LAT. 29° 07 .5' N. LONG. 94° 08.5'W.
 Day Month Year
 TIME 0753 DEPTH 9 MAX. SAMPLE DEPTH 13 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 44 SEA 1 SWELL 100 °T. 1 ft.
 code Ci Code Code Direction Hgt.
4 sec. CLOUDS As 3 TEMP. 59.3 °F. 59.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 100 % WIND 210 °T. 1 VIS. 0
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	14.71	36.18	0.3	0.8	1	0.0	3.8
2	14.73	36.09	0.7	0.4	0	0.0	0.4
13	14.38	36.09	0.4	0.4	1	0.0	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	14.71	36.18	26.96	0.3	0.8	1	0.0	3.8
10	14.50	36.09	26.94	0.5	0.4	1	0.0	0.3

STATION NO. 8-3C-2

DATE 13 2 1953 LAT. 29° 06 .0' N. LONG. 93° 01 .0' W.
 Day Month Year
 TIME 0340 DEPTH 9 MAX. SAMPLE DEPTH 10 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 00 SEA 2 SWELL - °T. - ft.
 code Code Code Direction Hgt.
 - sec. CLOUDS - 0 TEMP. 58.0 °F. 49.0 °F.
 Period Type Amount Dry Wet
 BAR. 31.35 in. REL. HUM. 51 % WIND - °T. - VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.68	---	0.4	0.3	1	-	1.2
2	16.74	---	3.2	0.2	1	1.8 ^a	0.1
10	16.73	---	0.6	1.4	1	-	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.68	---		0.4	0.3	1	-	1.2
10	16.73	---		0.6	1.4	1	-	0.4

(a) Green carbohydrates.

STATION NO. 8-3C-3

DATE 13 2 1953 LAT. 29° 00 .0' N. LONG. 92° 03 .0' W.
 Day Month Year
 TIME 1102 DEPTH 10 MAX. SAMPLE DEPTH 15 WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR - WEATHER 00 SEA 2 SWELL 040 °T. - ft.
 Code Code Code Direction Hgt.
 - sec. Clouds 0 - TEMP. 53.1 °F. 47.0 °F.
 Period Type Amount Dry Wet
 BAR. 31.45 in. REL. HUM. 63 % WIND 020 °T. 4 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.18	---	1.4	0.4	1	-	0.6
2	16.24	---	0.6	0.6	1	1.7	0.5
8	16.25	---	3.0	0.6	1	0.6	0.7
15	16.74	---	1.0	0.4	1	0.5	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.18	---	---	1.4	0.4	1	-	0.6
10	16.25	---	---	2.4	0.5	1	0.6	0.6

STATION NO. 8-3C-4

DATE 13 2 1953 LAT. 28° 29 . 2' N. LONG. 91° 07 . 0' W.
 Day Month Year
 TIME 1918 DEPTH 9 MAX. SAMPLE DEPTH 13 WIRE ANGLE 19 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 03 SEA 2 SWELL - °T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS Ci 1 TEMP. 53.6 °F. 48.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.13 in. REL. HUM. 64 % WIND 020 °T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.82	--		1.4	3	-	0.0
2	*16.09	--	0.4	0.2	1	-	0.3
7	16.84	--	0.5	0.2	2	1.1	0.9
13	16.94	--	0.5	0.4	1	0.2	-

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.82	---	---	-	1.4	3	-	0.0
10	16.85	---	---	0.5	0.3	2	0.7	-

*Values not used to draw smooth curves.

STATION NO. 8-3C-5

DATE 14 2 1953 LAT. 28° 57.0' N. LONG. 90° 11.5' W.
 Day Month Year
 TIME 0321 DEPTH 10 MAX. SAMPLE DEPTH 15 WIRE ANGLE 15 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 02 SEA 0 SWELL - °T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS - TEMP. 54.9 °F. 49.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.9 in. REL. HUM. 70 % WIND - °T. 0 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.40	35.70	0.6	-	4	1.8	0.7
2	---	---	0.8	0.2	3	1.0 ^a	0.0
8	17.36	---	0.6	0.2	3	0.1	0.5
15	16.62	---	0.9	1.2	3	1.6	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.40	35.70	26.21	0.6	-	4	1.8	0.7
10	17.35	---	---	0.7	0.5	3	0.5	0.5

(a) Green carbohydrates.

STATION NO. 8-3C-6

DATE 14 2 1953 LAT. 28° 58 . 0' N. LONG. 89° 16 . 0' W.
 Day Month Year
 TIME 1252 DEPTH 12 MAX. SAMPLE DEPTH 17 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 03 SEA 1 SWELL - °T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS As 7 TEMP. 55.2 °F. 52.5 °F.
 Period Type Amount Dry Wet
 BAR. 29.97 in. REL. HUM. 82 % WIND - °T. - VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total Inorg.		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	PO ₄ -P			
0	15.28	---	1.1	0.4	12	0.6	0.8
2	*14.58	---	1.0	0.5	5	0.6	0.7
9	16.75	---	-	-	4	1.0	0.8
17	17.78	---	0.8	0.6	2	1.0	1.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total Inorg.		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
				PO ₄ -P	PO ₄ -P			
0	15.28	-	---	1.1	0.4	12	0.6	0.8
10	16.85	-	---	0.9	0.6	4	1.0	0.9

STATION NO. 8-3C-8

DATE 17 2 1953 LAT. 30° 03.0' N. LONG. 87° 46.5' W.
 Day Month Year
 TIME 0500 DEPTH 9 MAX. SAMPLE DEPTH 10 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 02 SEA 2 SWELL - °T. - ft.
 Code Code Code Direction Hgt.
- sec. CLOUDS - - TEMP. 62.2 °F. 57.8 °F.
 Period Type Amount Dry Wet
 BAR. 31.05 in. REL. HUM. 79 % WIND - °T. - VIS. -
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	15.25	31.27	0.5	1.6	1	0.4	1.3
2	15.31	31.27	0.7	0.3	1	0.1	0.5
10	16.03	33.82	0.6	0.2	1	0.2	-

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	15.25	31.27	---	0.5	1.6	1	0.4	1.3
10	16.03	33.82	24.85	0.6	0.2	1	0.2	-

STATION NO. 8-3C-9

DATE 17 2 1953 LAT. 30° 18 .0' N. LONG. 86° 38 .0' W.
 Day Month Year
 TIME 1238 DEPTH 12 MAX. SAMPLE DEPTH 20 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 03 SEA 2 SWELL - °T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS Sc 8 TEMP. 56.2 °F. 54.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.18 in. REL. HUM. 88 % WIND 340 °T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	15.54	35.13		0.2	1	0.0	0.4
2	15.58	35.16	0.3	1.1	0	0.0	0.3
10	15.61	35.12	0.6	0.0	1	0.8	0.3
20	16.17	35.71	3.0	0.1	1	0.1	0.7

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	15.54	35.13	25.97	-	0.2	1	0.0	0.4
10	15.61	35.12	25.94	0.6	0.0	1	0.8	0.3
20	16.17	35.71	26.27	3.0	0.1	1	0.1	0.7

STATION NO. 8-3C-10

DATE 17 2 1953 LAT. 30° 00.0' N. LONG. 85° 40.0' W.
 Day Month Year
 TIME 1920 DEPTH 12 MAX. SAMPLE DEPTH 19 WIRE ANGLE 16 °
 GCT Faths. Meters
 WATER COLOR 30 WEATHER 01 SEA 2 SWELL 310 ° T. 4 ft.
 Code Sc Code Code Direction Hgt.
5 sec. CLOUDS Ci 7 TEMP. 61.4 °F. 50.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.24 in. REL. HUM. 44 % WIND 320 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.13	34.63	1.9	0.3	1	-	0.7
2	---	35.00	0.4	0.5	1	0.6	0.6
10	16.18	35.03	0.5	0.2	1	0.4	0.1
19	16.80	35.85	0.4	0.4	2	0.0	0.9

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Total Ot PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	16.13	34.63	25.45	1.9	0.3	-	0.7
10	16.18	35.03	25.74	0.5	0.2	0.4	0.1
20				0.4			

STATION NO. 8-3C-11

DATE 18 2 1953 LAT. 29° 25. 0' N. LONG. 85°00. 0' W.
 Day Month Year
 TIME 2333 DEPTH 8 MAX. SAMPLE DEPTH 10 WIRE ANGLE 28 °
 GCT Faths. Meters
 WATER COLOR 30 WEATHER 01 SEA 3 SWELL 050 °T. 3 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Ac 4 TEMP. 56.2 °F. 47.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.36 in. REL. HUM. 50 % WIND 050 ° T. 5 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	14.55	34.15	0.4	1.1	0	0.2	1.4
10	15.60	34.54	0.6	0.7	1	1.6	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	14.55	34.15	25.43	0.4	1.1	0	0.2	1.4
10	15.60	34.54	24.45	0.6	0.7	1	1.6	0.5

STATION NO. 8-3C-13

DATE 19 2 1953 LAT. 28° 32. 0' N. LONG. 83° 26 . 0' W.
 Day Month Year
 TIME 1719 DEPTH 12 MAX. SAMPLE DEPTH 16 WIRE ANGLE 4 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 05 SEA 2 SWELL 050 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Ac 1 TEMP. 62.5 °F. 60.3 °F.
 Period Type Amount Dry Wet
 BAR. 30.29 in. REL. HUM. 89 % WIND 070 ° T. 4 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	15.90	35.59	0.7	0.2	0	0.5	1.0
2	---	35.60	0.8	0.0	1	0.4	1.4
10	15.78	35.62	0.6	1.5	1	0.0	-
16	15.76	35.66	0.4	0.2	1	0.7	-

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	15.90	35.59	26.24	0.7	0.2	0	0.5	1.0
10	15.78	35.62	26.29	0.6	1.5	1	0.0	-

STATION NO. 8-3C-14

DATE 20 2 1953 LAT. 27° 36.0' N. LONG. 83° 08.0' W.
 Day Month Year
 TIME 0231 DEPTH 12 MAX. SAMPLE DEPTH 18 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 30 WEATHER 01 SEA 1 SWELL 100 ° T. 1 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Sc 6 TEMP. 66.7 °F. 63.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.20 in. REL. HUM. 85 % WIND 100 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	17.24	35.62	0.7	0.2	1	0.0 ^a	0.0
2	17.30	35.60	0.4	0.4	0	0.4	1.9
10	16.88	35.63	0.4	-	1	-	2.0
18	16.80	35.63	0.8	0.6	1	0.0	1.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	17.24	35.62	25.95	0.7	0.2	1	0.0	0.0
10	16.88	35.63	26.05	0.4	0.5	1	0.2	2.0

(a) Green carbohydrates.

STATION NO. 8-3C-15

DATE 20 2 1953 LAT. 26° 44.0' N. LONG. 82° 53.5' W.
 Day Month Year
 TIME 1016 DEPTH 13 MAX. SAMPLE DEPTH 20 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 20 WEATHER 03 SEA 2 SWELL 90 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS - - TEMP. 65.9 °F. 50.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.21 in. REL. HUM. 32 % WIND 90 ° T. 4 VIS. -
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	18.66	36.16	0.6	0.5	1	0.0	1.8
2	18.74	36.18	0.4	2.0	1	-	1.8
10	18.66	36.18	0.3	1.0	1	0.5	0.0
20	18.46	36.15	0.9	0.0	1	0.0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	18.66	36.16	26.02	0.6	0.5	1	0.0	1.8
10	18.66	36.18	26.03	0.3	1.0	1	0.5	0.0
20	18.46	36.15	26.06	0.9	0.0	1	0.0	0.0

STATION NO. 8-3C-16

DATE 20 2 1953 LAT. 25° 51.5' N. LONG. 82° 07.0' W.
 Day Month Year
 TIME 1854 DEPTH 9 MAX. SAMPLE DEPTH 12 WIRE ANGLE 13 °
 GCT Faths. Meters
 WATER COLOR 20 WEATHER 05 SEA 2 SWELL 140 ° T. 3 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 1 TEMP. 71.1 °F. 68.4 °F.
 Period Type Amount Dry Wet
 BAR. 30.13 in. REL. HUM. 86 % WIND 140 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	19.49	35.25	0.5	0.3	1	0.3	1.2
2	19.56	35.84	0.4	0.4	1	0.0	0.6
12	19.25	35.25	0.8	0.2	1	1.6	-

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	19.49	35.25	25.10	0.5	0.3	1	0.3	1.2
10	19.30	35.30	25.19	0.7	0.2	1	1.3	-

STATION NO. 8-3C-17

DATE 21 2 1953 LAT. 25° 00.0' N. LONG. 81° 58.0' W.
 Day Month Year
 TIME 0242 DEPTH 10 MAX. SAMPLE DEPTH 15 WIRE ANGLE 10 °
 GCT Faths. Meters
 WATER COLOR 20 WEATHER 00 SEA 2 SWELL 110 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS -- 0 TEMP. 72.3 °F. 70.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.14 in. REL. HUM. 91 % WIND 110 ° T. 3 VIS. 7
 Direction Force Code.

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	20.96	35.50	2.6	0.1	0	0.0	1.0
2	21.00	---	2.7	0.6	0	0.7	1.8
8	20.94	35.39	0.5	0.4	1	0.4	0.0
15	20.73	35.35	0.8	0.4	4	3.6	-

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	20.96	35.50	24.91	2.6	0.1	0	0.0	1.0
10	20.90	35.38	24.83	0.6	0.4	2	1.3	-

STATION NO. 8-3C-18

DATE 23 2 1953 LAT. 24° 53.0' N. LONG. 83° 03.0' W.
 Day Month Year
 TIME 0055 DEPTH 28 MAX. SAMPLE DEPTH 50 WIRE ANGLE 5 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 00 SEA 1 SWELL 180 ° T. 1 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS -- 0 TEMP. 74.8 °F. 73.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.26 in. REL. HUM. 91 % WIND 340 ° T. 2 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb.	Prot.
			PO ₄ -P	PO ₄ -P		Mg/l	Mg/l
0	23.20	36.33	0.5	0.0	1	-	0.9
2	23.25	36.35	0.7	0.0	1	0.0	1.4
10	22.19	36.36	0.4	0.3	1	1.4	0.8
20	21.65	36.35	1.2	0.6	1	0.0	-
30	21.40	36.35	0.6	1.1	1	1.1	0.5
50	--	36.35	0.6	0.2	1	0.0	0.9

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb.	Prot.	
			O _t	PO ₄ -P		PO ₄ -P	Mg/l	Mg/l
0	23.20	36.33	24.91	0.5	0.0	1	-	0.9
10	22.19	36.36	25.22	0.4	0.3	1	1.4	0.8
20	21.65	36.35	25.36	1.2	0.6	1	0.0	0.6
30	21.40	36.35	25.44	0.6	1.1	1	1.1	0.5
50	---	36.35	---	0.6	0.2	1	0.0	0.9

STATION NO. 8-3C-19

DATE 23 2 1953 LAT. 25° 36.0' N. LONG. 83° 03.0' W.
 Day Month Year
 TIME 0701 DEPTH 27 MAX. SAMPLE DEPTH 50 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 20 WEATHER 01 SEA 1 SWELL 310 ° T. 4 ft.
 Code Code Code Direction Hgt.
 10 sec. CLOUDS Sc 3 TEMP. 72.8 °F. 70.9 °F.
 Period Type Amount Dry Wet
 BAR. 30.29 in. REL. HUM. 91 % WIND 070 ° T. 1 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	21.55	36.33	0.7	0.4	0	-	0.8
2	21.43	36.31	0.6	0.2	0	0.1	1.4
10	21.31	36.33	0.4	0.3	1	0.3 ^a	0.4
20	20.78	36.31	1.0	0.2	1	0.4	1.2
30	20.72	36.35	0.6	0.8	2	-	-
50	*22.62	36.33	0.4	0.1	0	0.0	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	21.55	36.33	25.38	0.7	0.4	0	-	0.8
10	21.31	36.33	25.44	0.4	0.3	1	0.3	0.4
20	20.78	36.31	25.57	1.0	0.2	1	0.4	1.2
30	20.72	36.35	25.62	0.6	0.8	2	0.3	0.8
50	*22.62	36.33	25.08	0.4	0.1	0	0.0	0.1

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-3C-20

DATE 23 2 1953 LAT. 25° 36.0' N. LONG. 84° 00.0' W.
 Day Month Year
 TIME 1401 DEPTH 76 MAX. SAMPLE DEPTH 138 WIRE ANGLE 7 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 2 SWELL 080 ° T. 3 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Sc 2 TEMP. 74.7 °F. 71.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.30 in. REL. HUM. 82 % WIND 080 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.91	36.18	0.5	1.0	1	-	0.3
2	23.95	36.24	0.4	0.1	0	0.0 ^a	0.6
10	23.93	36.20	0.4	0.2	1	0.0	0.8
20	23.93	36.22	1.0	0.2	1	1.2	0.1
30	23.80	36.27	0.4	0.2	1	0.0	0.7
50	22.56	36.29	0.6	0.2	1	0.8	1.8
74	21.90	36.58	0.5	0.2	6	0.2	0.9
99	21.32	36.67	0.7	0.6	3	0.0 ^a	1.1
138	17.39	36.35	1.0	1.0	9	0.7	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.91	36.18	24.58	0.5	1.0	1	-	0.3
10	23.93	36.20	24.59	0.4	0.2	1	0.0	0.8
20	23.93	36.22	24.61	1.0	0.2	1	1.2	0.1
30	23.80	36.27	24.69	0.4	0.2	1	0.0	0.7
50	22.56	36.29	25.06	0.6	0.2	1	0.8	1.8
75	21.90	36.58	25.47	0.5	0.2	6	0.2	0.9
100	21.32	36.67	25.70	0.7	0.6	3	0.0	1.1

(a) Green carbohydrates.

STATION NO. 8-3C-21

DATE 23 2 1953 LAT. 25° 02.0' N. LONG. 84° 04.0' W.
 Day Month Year
 TIME 1832 DEPTH 75 MAX. SAMPLE DEPTH 131 WIRE ANGLE 6 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 2 SWELL 70 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 2 TEMP. -- °F. -- °F.
 Period Type Amount Dry Wet
 BAR. 30.27 in. REL. HUM. - % WIND 060 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.65	36.20	0.1	0.1	0	0.2	-
2	24.68	36.17	0.4	0.2	2	0.0	0.4
10	24.62	36.18	0.5	0.0	1	0.0	0.8
19	24.59	36.35	1.5	0.8	1	0.0	0.4
29	24.00	36.27	0.5	1.0	0	0.3	0.5
48	22.33	36.36	0.2	1.0	2	0.0	0.4
73	21.32	36.40	1.9	0.1	1	0.4	0.0
97	20.62	36.47	-	0.2	2	3.8	0.8
131	19.89	36.58	2.0	-	5	0.1	0.5

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.65	36.20	24.38	0.1	0.1	0	0.2	-
10	24.62	36.18	24.37	0.5	0.0	1	0.0	0.8
20	24.59	36.35	24.51	1.4	0.8	1	0.0	0.4
30	24.00	36.27	24.63	0.5	1.0	0	0.3	0.5
50	22.21	36.37	25.22	0.3	.9	2	0.0	0.4
75	21.20	36.41	25.54	1.9	0.1	1	0.7	0.1
100	20.60	36.48	25.75	1.9	-	2	3.5	0.8

STATION NO. 8-3C-22

DATE 24 2 1953 LAT. 24° 37.0' N. LONG. 84° 32.0' W.
 Day Month Year
 TIME 0302 DEPTH 1800 MAX. SAMPLE DEPTH 237 WIRE ANGLE 5 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 2 SWELL 070 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 74.9 °F. 72.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.21 in. REL. HUM. 86 % WIND 110 °T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.56	36.22		0.0	0	0.2	0.6
2	*23.47	36.15	0.4	0.8	0	0.2	0.5
10	24.55	36.24	0.7	1.0	1	0.0	0.9
24	24.53	36.27	0.3	0.2	1	0.4	0.7
48	24.44	36.27	0.4	0.0	2	0.4	0.3
71	--	36.40	0.3	0.4	0	0.0	0.4
95	23.84	36.58	0.4	0.2	2	1.1	0.2
142	21.21	36.62	0.5	0.4	2	-	0.9
189	19.32	36.69	0.8	0.6	7	0.1	1.1
237	18.41	36.47	1.0	0.4	9	0.8	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	O _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot Mg/l
0	24.56	36.22	24.42	-	0.0	0	0.2	0.6
10	24.55	36.24	24.44	0.7	1.0	1	0.0	0.9
20	24.55	36.26	24.45	0.4	0.4	1	0.3	0.8
30	24.53	36.27	24.47	0.3	0.1	1	0.4	0.6
50	24.44	36.27	24.50	0.4	0.0	2	0.4	0.3
75	24.15	36.45	24.72	0.3	0.4	0	0.9	0.4
100	23.65	36.59	24.97	0.4	0.2	2	1.0	0.3
150	20.65	36.63	25.85	0.6	0.4	3	0.5	0.9
200	19.13	36.69	26.30	0.8	0.6	7	0.3	0.9

*Values not used to draw smooth curves.

STATION NO. 8-3C-23

DATE 24 2 1953 LAT. 24° 11.0' N. LONG. 85° 07.0' W.
 Day Month Year
 TIME 1140 DEPTH 1800 MAX. SAMPLE DEPTH 997 WIRE ANGLE 16 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 2 SWELL 90 ° T. 4 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 3 TEMP. 75.6 °F. 72.3 °F.
 Period Type Amount Dry Wet
 BAR. 30.16 in. REL. HUM. 82 % WIND 70 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.33	36.27	-	0.1	1	1.6	
10	24.37	36.27	0.0	0.4	1	0.4	0.1
24	24.34	36.31	0.4	-	2	0.0	0.3
48	24.05	36.33	0.5	0.0	28	0.0	0.6
72	--	36.33	0.4	0.1	0	0.2	1.1
96	23.98	36.31	0.6	0.2	1	0.4	0.5
143	23.94	36.85	0.1	0.1	1	-	0.6
191	22.44	36.76	3.0	0.3	3	0.2	0.2
238	19.94	36.65	1.3	0.4	4	0.6	0.4
286	--	36.55	1.0	0.5	8	-	0.2
381	16.47	36.26	1.0	1.0	11	1.0	0.2
473	13.59	35.77	1.8	-	18	0.2	1.1
557	10.70	*35.84	2.0	1.6	4	0.6	1.2
700	6.94	34.92	2.7	2.6	31	0.4 ^a	0.4
839	6.62	35.03	1.8	2.0	26	0.2	-
997	5.95	34.97	1.6	1.5	18	0.4	0.5

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-3C-23

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	Ot	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.33	36.27	24.53		0.1	1	1.6	-
10	24.37	36.27	24.52	0.0	0.4	1	0.4	0.1
20	24.37	36.30	24.54	0.3	0.3	2	0.1	0.2
30	24.31	36.32	24.57	0.4	0.2	9	0.0	0.4
50	24.04	36.33	24.66	0.5	0.0	26	0.0	0.6
75	24.00	36.33	24.67	0.4	0.1	0	0.2	1.0
100	23.98	36.31	24.66	0.6	0.2	1	0.4	0.5
150	23.94	36.84	25.07	0.6	0.1	1	0.3	0.5
200	21.80	36.74	25.62	2.7	0.3	3	0.3	0.2
250	19.60	36.62	26.12	1.2	0.4	5	0.6	0.3
300	18.50	36.52	26.33	1.0	0.6	8	0.8	0.2
400	16.00	36.19	26.68	1.2	1.1	12	0.8	0.4
500	12.90	35.61	26.90	1.9	1.4	14	0.3	1.1
600	9.10	35.15	27.24	2.2	1.9	12	0.5	1.0
700	6.94	34.92	27.38	2.7	2.6	31	0.4	0.4
800	6.71	34.99	27.44	2.0	2.2	27	0.3	0.4

STATION NO. 8-3C-24

DATE 24 2 1953 LAT. 23° 40.0' N. LONG. 85° 45.0' W.
 Day Month Year
 TIME 1852 DEPTH 1860 MAX. SAMPLE DEPTH 1176 WIRE ANGLE 15°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 2 SWELL 100 ° T. 5 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS - 0 TEMP. 78.5 °F. 74.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.13 in. REL. HUM. 83 % WIND 130 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
			PO ₄ -P	PO ₄ -P			
0	25.88	36.00	0.8	0.3	1	0.6	0.7
10	25.84	36.00	0.9	0.4	0	0.4	0.4
24	25.83	*36.94	0.6	0.0	1	0.4	0.5
47	25.80	35.99	2.0	0.2	1	0.8	1.3
71	---	36.04	0.0	0.0	1	-	1.1
94	25.63	36.13	1.8	-	1	5.8	1.7
142	24.23	36.60	0.9	0.0	3	0.9 ^a	0.5
189	21.37	*37.14	1.4	0.4	6	0.4 ^a	0.3
237	19.62	36.71	2.8	1.4	7	1.2	0.1
285	---	36.55	0.8	0.5	5	-	1.4
382	16.52	36.35	2.4	1.2	10	0.0	0.8
480	13.62	35.82	1.4	1.4	5	1.5	1.0
578	10.99	35.44	1.4	2.1	24	-	0.2
776	---	---	-	-	-	-	-
976	6.40	34.97	2.8	2.1	29	0.4	1.3
1176	4.80	35.07	1.7	2.7	27	1.0 ^a	1.6

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-30-24

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.88	36.00	23.85	0.8	0.3	1	0.6	0.7
10	25.84	36.00	23.86	0.9	0.4	0	0.4	0.4
20	25.83	36.00	23.86	0.7	0.1	1	0.4	0.5
30	25.83	35.99	23.85	1.0	0.1	1	0.5	0.7
50	25.80	35.99	23.86	1.7	0.2	1	1.1	1.3
75	25.72	36.05	23.94	0.3	0.0	1	3.8	1.2
100	25.61	36.16	24.05	1.7	0.0	1	5.2	1.5
150	23.95	36.62	24.91	1.0	0.1	4	0.8	0.5
200	21.02	36.69	25.80	1.7	0.6	6	0.6	0.3
250	19.34	36.71	26.26	2.3	1.2	6	1.1	0.5
300	18.30	36.52	26.38	1.0	0.6	6	0.7	1.3
400	16.25	36.32	26.72	2.2	1.2	9	0.3	0.8
500	12.67	35.72	27.04	1.4	1.5	9	1.5	0.8
600	10.64	35.39	27.17	1.5	2.1	24	1.2	0.3
700	9.40	35.24	27.26	1.8	2.1	26	1.0	0.5
800	---	---	---	2.2	2.1	27	0.9	0.8
1000	6.21	34.97	27.52	2.7	2.2	29	0.5	1.3

STATION NO. 8-3C-25

DATE 25 2 1953 LAT. 24° 14.5' N. LONG. 86° 17.0' W.
 Day Month Year
 TIME 0122 DEPTH 1000 MAX. SAMPLE DEPTH 1044 WIRE ANGLE 20°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 1 SWELL 140 ° T. - ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 1 TEMP. 76.4 °F. 72.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.09 in. REL. HUM. 82 % WIND 140 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.76	35.99	0.3	0.2	0	-	0.5
2	*25.95	35.91	2.4	0.8	0	0.6	0.1
10	25.81	35.91	0.7	0.2	1	5.2	0.3
24	25.87	35.99	0.3	0.1	3	0.8	0.2
47	25.80	35.95	0.4	0.2	1	0.0	-
70	---	36.00	0.4	0.5	1	0.8	0.5
93	25.75	36.09	0.0	0.2	1	0.8	0.4
140	25.41	36.60	0.4	0.4	3	-	1.3
186	22.47	36.80	0.2	0.2	3	0.2	0.8
232	20.06	36.76	0.6	0.2	24	-	0.2
277	---	36.62	0.3	0.4	7	-	0.9
362	16.66	36.26	2.6	1.9	11	0.0	0.0
446	14.18	35.46	-	-	-	-	-
528	11.80	34.88	1.9	1.6	21	1.4	0.5
688	7.72	34.96	-	-	-	-	-
855	5.85	---	2.4	-	28	0.0 ^a	0.4
1044	4.98	---	1.9	1.6	1	-	0.1

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-3C-25

VALUES AT STANDARD DEPTHS								
Depth	Temp.	Sal.	O _t	Total	Inorg.	NO ₃ -N	Carb.	Prot.
	°C	‰		PO ₄ -P	PO ₄ -P		Mg/l	Mg/l
0	25.76	35.99	23.88	0.3	0.2	0	-	0.5
10	25.81	35.91	23.80	0.7	0.2	1	5.2	0.3
20	25.84	35.98	23.85	0.4	0.1	2	2.1	0.2
30	25.86	35.98	23.84	0.3	0.1	2	0.6	0.2
50	25.77	35.95	23.84	0.4	0.2	1	0.1	0.4
75	25.73	36.01	23.90	0.3	0.4	1	0.8	0.5
100	25.72	36.21	24.06	0.1	0.2	1	0.8	0.5
150	25.18	36.66	24.56	0.4	0.4	3	0.4	1.2
200	21.17	36.79	25.83	0.3	0.2	9	0.2	0.6
250	19.69	36.73	26.18	0.4	0.3	17	0.1	0.5
300	18.31	36.54	26.39	0.9	0.8	8	0.1	0.7
400	15.60	35.94	26.58	2.5	1.8	13	0.3	0.1
500	12.59	34.97	26.48	2.0	1.7	19	1.2	0.4
600	9.39	34.88	26.98	2.0	1.6	23	1.1	0.5
700	7.52	(34.97)	27.34	2.2	1.6	25	0.7	0.4
800	6.29	---	---	2.3	1.6	27	0.2	0.4
1000	5.12	---	---	2.0	1.6	7	-	0.2

() Extrapolated values.

STATION NO. 8-3C-26

DATE 25 2 1953 LAT. 24° 33.0' N. LONG. 86° 53.0' W.
 Day Month Year
 TIME 0830 DEPTH 1000 MAX. SAMPLE DEPTH 1200 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 1 SWELL 170 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 2 TEMP. 76.3 °F. 70.7 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 78 % WIND 90 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.76	35.93	0.4	0.2	1	0.0	0.9
2	---	35.95	0.6	0.1	0	0.7	0.6
10	25.82	---	0.1	0.0	1	0.2	0.5
25	25.84	35.93	1.8	0.2	1	1.0	0.1
50	24.35	36.22	2.0	0.0	1	0.0	0.1
75	*22.07	36.24	0.4	0.3	1	-	1.1
100	24.10	36.27	0.5	1.4	1	-	0.4
150	22.99	36.65	1.0	0.2	3	-	2.0
200	20.13	36.72	2.5	0.7	6	0.4	0.0
250	18.62	36.56	0.6	0.3	8	0.8	1.4
300	---	36.42	0.8	0.5	9	2.2	-
400	15.44	36.06	1.2	-	12	7.8	1.2
500	12.08	35.49	2.3	1.8	23	0.5	0.4
600	9.52	35.16	2.0	2.0	27	4.2	1.2
800	6.51	34.87	2.7	5.7	28	0.0	0.2
1000	5.26	34.92	3.9	2.6	25	0.6	0.6
1200	--	34.96	1.9	1.5	30	0.2	1.1

*Values not used to draw smooth curves.

STATION NO. 8-3C-26

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/1	Prot. Mg/1
0	25.76	35.93	23.83	0.4	0.2	1	0.0	0.9
10	25.82	35.95	23.83	0.1	0.0	1	0.2	0.5
20	25.85	35.94	23.81	1.2	0.1	1	0.7	0.2
30	25.40	35.92	23.93	1.8	0.2	1	0.8	0.1
50	24.35	36.22	24.48	2.0	0.0	1	0.0	0.1
75	24.21	36.24	24.54	0.4	0.3	1	0.1	1.1
100	24.10	36.27	24.60	0.5	1.4	1	0.1	0.4
150	22.99	36.65	25.21	1.0	0.2	3	0.3	2.0
200	20.13	36.72	26.06	2.5	0.7	6	0.4	0.0
250	18.62	36.56	26.33	0.6	0.3	8	0.8	1.4
300	17.79	36.42	26.43	0.8	0.5	9	2.2	1.3
400	15.44	36.06	26.71	1.2	1.2	12	7.8	1.2
500	12.08	35.49	26.98	2.3	1.8	23	0.5	0.4
600	9.52	35.16	27.18	2.0	2.0	27	4.2	1.2
700	7.79	34.96	27.30	2.3	3.9	27	2.1	0.7
800	6.51	34.87	27.40	2.7	5.7	28	0.0	0.2
1000	5.26	34.92	27.60	3.9	2.6	25	0.6	0.6
1200	--	34.96	---	1.9	1.5	30	0.2	1.1

STATION NO. 8-3C-27

DATE 25 2 1953 LAT. 24° 58.0' N. LONG. 87° 32.0' W.
 Day Month Year
 TIME 1515 DEPTH 1840 MAX. SAMPLE DEPTH 856 WIRE ANGLE 22°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 2 SWELL 130 ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 1 TEMP. 78.2 °F. 73.7 °F.
 Period Type Amount Dry Wet
 BAR. 30.11 in. REL. HUM. 83 % WIND 110 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C.	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	PO ₄ -P			
0	25.72	36.08	0.3	0.4	0	2.1	1.4
9	25.76	36.00	0.7	1.3	1	0.3	0.0
22	25.74	36.02	0.0	1.1	1	0.1	0.4
46	25.74	36.04	0.8	0.1	1	0.5	1.0
68	*20.47	36.29	0.3	0.2	1	0.0	0.3
92	24.05	36.35	0.2	0.3	1	1.6	0.5
137	22.59	36.91	0.6	0.6	4	0.6	0.5
182	20.35	36.72	0.2	0.6	4	0.0	0.9
227	19.41	36.64	0.7	0.6	6	1.2 ^a	0.6
271	---	36.56	0.6	0.8	6	0.8	0.8
358	16.57	36.24	0.8	0.7	10	0.0	0.5
442	14.34	35.88	1.9	1.7	16	0.0	-
525	11.84	35.46	2.0	1.8	10	0.0	2.1
682	8.68	35.05	1.9	2.1	30	-	0.1
856	6.26	34.87	2.6	2.2	23	0.4	0.1

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-3C-27

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total Inorg.		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
				PO ₄ -P	PO ₄ -P			
0	25.72	36.08	23.96	0.3	0.4	0	2.1	1.4
10	25.75	36.00	23.89	0.6	1.3	1	0.3	0.0
20	25.75	36.02	23.90	0.2	1.1	1	0.1	0.3
30	25.74	36.03	23.91	0.3	0.8	1	0.2	0.6
50	25.74	36.05	23.93	0.7	0.1	1	0.4	0.9
75	24.65	36.32	24.47	0.3	0.2	1	0.5	0.4
100	23.79	36.38	24.78	0.3	0.4	2	1.4	0.5
150	21.60	36.90	25.79	0.5	0.6	4	0.4	0.6
200	19.95	36.69	26.09	0.4	0.6	5	0.5	0.8
250	19.04	36.60	26.26	0.6	0.7	6	1.0	0.7
300	17.85	36.48	26.46	0.7	0.8	7	0.5	0.7
400	15.46	36.05	26.70	1.4	1.2	13	0.0	0.9
500	12.44	35.58	26.98	2.0	1.8	12	0.0	1.9
600	10.12	35.23	27.13	1.9	1.9	20	0.1	1.1
700	8.40	35.03	27.25	2.0	2.1	29	0.2	0.1
800	6.95	34.91	27.37	2.4	2.2	25	0.3	0.1

STATION NO. 8-3C-28

DATE 25 2 1953 LAT. 25° 14.0' N. LONG. 88° 04.0' W.
 Day Month Year
 TIME 2054 DEPTH 1925 MAX. SAMPLE DEPTH 559 WIRE ANGLE 42°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 1 SWELL 140 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cu 3 TEMP. 79.3 °F. 72.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.05 in. REL. HUM. 71 % WIND 210 ° T. 1 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.35	*37.36	0.1	0.3	0	1.0	0.6
2	26.41	36.06	0.4	1.2	3	0.0	0.5
8	25.82	36.04	0.6	0.2	1	0.0	-
18	25.78	36.00	0.6	0.3	0	0.0	0.2
34	25.70	36.00	0.2	0.2	1	0.8 ^a	0.3
48	25.51	36.04	0.5	0.0	1	-	1.6
62	24.99	36.24	0.4	0.2	0	0.5	0.9
90	22.13	36.62	2.6	0.2	3	-	1.4
117	20.57	36.65	0.5	1.5	5	0.2	0.3
139	19.38	36.67	0.4	0.4	9	0.7	1.6
165	---	36.58	1.0	1.2	9	1.0	0.3
216	17.54	36.49	0.9	0.6	8	0.0	0.6
264	16.54	36.22	2.0	-	12	0.0	0.5
312	14.72	36.02	2.6	1.3	13	-	0.9
390	12.16	35.53	4.4	2.4	24	0.0	0.8
440	10.34	35.35	4.6	4.2	31	1.0	0.3
559	8.31	35.05	1.9	1.5	26	4.7 ^a	0.1

*Values not used to draw smooth curves.

(a) Green carbohydrates.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.35	36.06	23.74	0.1	0.3	0	1.0	0.6
10	25.80	36.03	23.90	0.6	0.2	1	0.0	0.3
20	25.76	35.99	23.88	0.5	0.3	0	0.1	0.2
30	25.72	36.00	23.90	0.3	0.2	1	0.6	0.3
50	25.45	36.10	24.06	0.5	0.0	1	0.6	1.5
75	23.55	36.52	24.95	1.4	0.2	1	0.4	1.1
100	21.52	36.63	25.61	1.8	0.7	4	0.3	1.0
150	18.89	36.67	26.34	0.6	0.7	9	0.8	1.0
200	17.80	36.51	26.50	0.9	0.8	8	0.3	0.5
250	16.90	36.35	26.59	1.7	0.8	11	0.0	0.5
300	15.30	36.07	26.75	2.5	1.2	13	0.0	0.8
400	11.80	35.49	27.03	4.4	2.8	25	0.2	0.7
500	9.23	35.19	27.25	3.2	2.9	29	2.9	0.2

STATION NO. 8-3C-29

DATE 26 2 1953 LAT. 25° 45.0' N. LONG. 88° 38.0' W.
 Day Month Year
 TIME 0236 DEPTH 1800 MAX. SAMPLE DEPTH 1200 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 0 SWELL 100 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 1 TEMP. 75.2 °F. 71.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 82 % WIND - ° T. 0 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.68	36.24	0.3	0.2	1	0.0	1.2
2	*24.59	36.19	0.8	0.0	-	1.5	1.2
10	24.50	36.22	0.4	1.1	1	0.6	1.7
25	23.16	36.67	0.4	0.4	1	0.2	1.8
50	21.65	36.61	0.3	0.2	3	0.0	1.6
75	19.89	36.64	1.4	1.9	10	0.0	0.8
100	18.51	36.44	2.0	0.9	12	0.8	0.4
150	16.60	36.20	1.8	0.8	12	0.8	0.7
200	14.44	35.95	1.4	1.2	20	1.0	-
250	12.89	35.71	1.3	1.0	20	1.0	0.2
300	11.26	35.40	2.1	1.4	23	0.2	1.2
400	9.68	35.22	4.0	2.4	26	0.9	0.3
500	8.22	35.12	2.5	2.0	29	0.0	0.3
600	6.93	34.94	2.1	2.1	24	0.0	0.0
800	5.44	*36.78	2.2	2.3	27	-	0.2
1000	5.23	*35.25	2.2	2.1	29	2.2	0.7
1200	4.53	34.94	1.6	1.4	17	1.0	0.5

*Values not used to draw smooth curves.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.68	36.24	24.40	0.3	0.2	1	0.0	1.2
10	24.50	36.22	24.44	0.4	1.1	1	0.6	1.7
20	24.02	36.67	24.92	0.4	0.6	1	0.3	1.8
30	22.73	36.67	25.30	0.4	0.4	1	0.2	1.8
50	21.65	36.61	25.56	0.3	0.2	3	0.0	1.6
75	19.89	36.64	26.06	1.4	1.9	10	0.0	0.8
100	18.51	36.44	26.27	2.0	0.9	12	0.8	0.4
150	16.60	36.20	26.55	1.8	0.8	12	0.8	0.7
200	14.44	35.95	26.85	1.4	1.2	20	1.0	0.5
250	12.89	35.71	26.99	1.3	1.0	20	1.0	0.2
300	11.26	35.40	27.06	2.1	1.4	23	0.2	1.2
400	9.68	35.22	27.20	4.0	2.4	26	0.9	0.3
500	8.22	35.12	27.35	2.5	2.0	29	0.0	0.3
600	6.93	34.94	27.40	2.1	2.1	24	0.0	0.0
700	6.02	34.88	27.47	2.2	2.2	26	0.6	0.1
800	5.44	34.86	27.53	2.2	2.3	27	1.1	0.2
1000	5.12	34.87	27.58	2.2	2.1	29	2.2	0.7
1200	4.53	34.94	27.70	1.6	1.4	17	1.0	0.5

STATION NO. 8-3C-30

DATE 26 2 1953 LAT. 25° 56.0' N. LONG. 89° 17.5' W.
 Day Month Year
 TIME 0825 DEPTH 1800 MAX. SAMPLE DEPTH 1200 WIRE ANGLE 0 °
 GCT Paths. Meters
 WATER COLOR 00 WEATHER 05 SEA 2 SWELL 160 °T. 2 ft.
 Code As Code Code Direction Hgt.
3 sec. CLOUDS 2 TEMP. 74.0 °F. 70.8 °F.
 Period Type Amount Dry Wet
 BAR. 30.03 in. REL. HUM. 86 % WIND 150 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.28	36.19	0.2	-	0	0.6	0.4
2	*24.26	36.18	0.4	0.2	1	1.0	0.7
10	24.31	36.18	0.8	0.3	0	0.8	0.6
25	22.95	36.35	0.0	0.6	2	0.3	0.8
50	22.09	36.41	0.3	0.1	1	-	0.1
75	21.75	36.41	1.2	0.0	0	0.0	0.4
100	20.50	36.44	1.2	0.6	3	0.0	0.3
150	17.32	36.35	0.8	0.8	9	0.0	3.2
200	15.30	36.02	1.1	0.7	14	1.7	1.1
250	13.95	35.81	1.2	1.5	5	0.9	1.3
300	12.71	35.62	1.5	1.8	4	0.8	0.2
400	9.76	35.20	3.2	1.9	20	0.0	0.2
500	7.60	34.96	1.8	1.6	27	0.0	0.2
600	6.53	34.91	1.5	2.5	28	0.0	0.3
800	5.36	34.93		1.8	29	0.8 ^a	-
1000	4.73	34.97	2.8	2.6	6	0.2	0.4
1200	4.33	34.98	2.0	1.4	28	2.0 ^a	0.6

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-3C-30

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.28	36.19	24.28	0.2	-	0	0.6	0.4
10	24.31	36.18	24.47	0.8	0.3	0	0.8	0.6
20	24.00	36.27	24.63	0.3	0.5	1	0.5	0.7
30	22.65	36.37	25.10	0.2	0.5	2	0.3	0.7
50	22.09	36.41	25.29	0.3	0.1	1	0.1	0.1
75	21.75	36.41	25.38	1.2	0.0	0	0.0	0.4
100	20.50	36.44	25.75	1.2	0.6	3	0.0	0.3
150	17.32	36.35	26.49	0.8	0.8	9	0.0	3.2
200	15.30	36.02	26.71	1.1	0.7	14	1.7	1.1
250	13.95	35.81	26.84	1.2	1.5	5	0.9	1.3
300	12.71	35.62	26.95	1.5	1.8	4	0.8	0.2
400	9.76	35.20	27.17	3.2	1.9	20	0.0	0.2
500	7.60	34.96	27.32	1.8	1.6	27	0.0	0.2
600	6.53	34.91	27.43	1.5	2.5	28	0.0	0.3
700	5.81	34.92	27.53	1.8	2.1	29	0.4	0.3
800	5.36	34.93	27.60	2.2	1.8	29	0.8	0.4
1000	4.73	34.97	27.70	2.8	2.6	6	0.2	0.4
1200	4.33	34.98	27.75	2.0	1.4	28	2.0	0.6

STATION NO. 8-3C-31

DATE 26 2 1953 LAT. 26° 22.0' N. LONG. 89° 53.0' W.
 Day Month Year
 TIME 1451 DEPTH 1560 MAX. SAMPLE DEPTH 1134 WIRE ANGLE 20°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 03 SEA 3 SWELL 180 ° T. 2 ft.
 Code Ci Code Code Direction Hgt.
5 sec. CLOUDS As 3 TEMP. 75.3 °F. 71.2 °F.
 Period Type Amount Dry Wet
 BAR. 30.09 in. REL. HUM. 82 % WIND 220 ° T. 4 VIS 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	24.23	36.15	0.5	0.0	2	0.4	0.1
2	*24.27	36.18	0.4	0.3	0	-	0.0
9	24.26	36.16	0.1	1.4	1	0.0	0.4
23	24.26	36.15	1.6	0.1	2	0.7	0.6
47	23.53	36.36	0.4	0.3	-	0.3	0.8
70	22.38	36.81	1.8	0.4	3	-	1.2
93	20.27	36.57	1.8	0.4	4	0.5	-
140	17.63	36.37	2.8	0.8	14	1.2	0.1
186	15.21	36.04	1.2	1.2	2	0.2	0.5
232	13.64	35.81	1.7	1.3	19	1.6 ^a	0.8
278	12.28	35.54	2.0	1.2	21	0.6	-
370	10.15	35.24	4.0	2.2	27	0.0	-
462	8.46	35.03	2.6	2.7	3	-	-
554	7.19	34.93	2.1	2.0	33	0.7	0.3
744	5.69	35.01	4.4	-	32	-	0.3
936	4.85	35.01	2.4	-	26	0.0	1.6
1134	4.41	35.08	1.8	1.6	10	1.2	0.3

*Values not used to draw smooth curves.
 (a) Green carbohydrates.

STATION NO. 8-3C-31

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.23	36.15	24.47	0.5	0.0	2	0.4	0.1
10	24.26	36.15	24.46	0.2	1.4	1	0.1	0.4
20	24.26	36.15	24.46	1.3	0.4	2	0.5	0.6
30	24.25	36.17	24.48	1.3	0.2	2	0.6	0.7
50	23.24	36.40	24.95	0.6	0.3	3	0.3	0.9
75	22.02	36.81	25.61	1.8	0.4	3	0.4	1.1
100	19.90	36.53	25.98	1.9	0.5	5	0.6	0.7
150	17.08	36.32	26.53	2.5	0.9	11	1.0	0.2
200	14.74	35.97	26.79	1.4	1.2	7	0.6	0.6
250	13.25	35.70	26.90	1.8	1.3	20	1.2	0.8
300	11.74	35.47	27.02	2.5	1.4	22	0.5	0.7
400	9.45	35.18	27.20	3.5	2.4	19	0.1	0.5
500	7.80	34.98	27.31	2.4	2.4	15	0.5	0.4
600	6.77	34.92	27.41	2.7	2.0	33	0.6	0.3
700	5.96	34.98	27.56	3.9	1.9	32	0.4	0.3
800	5.39	35.02	27.66	3.8	1.8	30	0.2	0.7
1000	4.67	35.02	27.75	2.2	1.7	21	0.4	1.2

STATION NO. 8-3C-32

DATE 26 2 1953 LAT. 26° 41.8' N. LONG. 90° 28.6' W.
 Day Month Year
 TIME 2055 DEPTH 1500 MAX. SAMPLE DEPTH 1188 WIRE ANGLE 13°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 02 SEA 3 SWELL 025 ° T. 2 ft.
 Code Ci Code Code Direction Hgt.
6 sec. CLOUDS Sc 3 TEMP. 69.7 °F. 67.8 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM. 90 % WIND 025 ° T. 3 VIS 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C.	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	20.74	36.45	0.6	0.2	1	0.0	0.2
2	*20.74	36.40	0.8	0.1	1	-	0.2
10	19.54	36.35	1.8	0.1	0	0.0	0.5
24	19.38	36.38	0.8	0.2	1	0.6	0.9
48	19.38	36.35	3.9	1.2	1	3.0	0.7
73	19.09	*36.94	3.4	0.2	0	0.2	0.2
97	19.06	36.74	1.8	0.8	1	0.2	0.7
146	15.89	36.17	1.4	1.2	3	1.0	0.5
194	14.14	35.88	1.3	1.2	16	0.0	0.2
243	12.40	35.62	3.2	2.2	20	0.4	0.8
292	11.11	35.43	1.7	2.0	23	0.3 ^a	-
390	9.00	35.16	2.5	3.7	30	-	0.6
489	*8.72	35.03		1.7	29	0.1	1.6
589	6.54	34.85	4.4	2.2	33	0.4	0.1
789	5.36	34.92			32	0.8	-
988	4.61	34.96	1.9	1.8	24	0.4	0.3
1188	4.32	34.94		1.4	6	0.8 ^a	0.1

*Values not used to draw smooth curves.

(a) Green carbohydrates.

STATION NO. 8-3C-32

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	20.74	36.45	25.69	0.6	0.2	1	0.0	0.2
10	19.54	36.35	25.94	1.8	0.1	0	0.0	0.5
20	19.38	36.38	26.00	1.1	0.2	1	0.4	0.8
30	19.40	36.38	25.99	1.6	0.4	1	1.2	0.8
50	19.38	36.35	25.97	3.9	1.1	1	2.8	0.7
75	19.08	36.71	26.33	3.3	0.2	0	0.2	0.2
100	19.05	36.74	26.36	1.8	0.8	1	0.2	0.7
150	15.69	36.09	26.68	1.4	1.2	4	0.9	0.5
200	13.86	35.85	26.89	1.5	1.3	16	0.0	0.3
250	12.20	35.59	27.03	3.0	2.2	20	0.4	0.8
300	10.91	35.40	27.12	1.8	2.1	24	0.3	0.7
400	8.86	35.15	27.28	2.6	3.5	30	0.2	0.7
500	7.47	35.01	27.38	3.5	1.8	29	0.1	1.4
600	6.49	34.84	27.38	4.3	2.2	33	0.4	0.1
700	5.82	34.84	27.47	3.7	2.2	32	0.6	0.2
800	5.30	34.92	27.60	3.1	2.2	31	0.8	0.4
1000	4.58	34.96	27.72		1.8	23	0.4	0.3

STATION NO. 8-3C-33

DATE 27 2 1953 LAT. 27° 03.0' N. LONG. 91° 02.0' W.
 Day Month Year
 TIME 0310 DEPTH 800 MAX. SAMPLE DEPTH 1200 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 01 SEA 2 SWELL 3/0 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Sc 4 TEMP. 66.8 °F. 64.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.11 in. REL. HUM. 85 % WIND 30 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb.	Prot.
			PO ₄ -P	PO ₄ -P		Mg/l	Mg/l
0	19.85	36.36	0.9	0.1	1	1.1	0.7
2	*19.91	36.42	2.0	0.4	0	0.9	0.2
10	19.87	36.38	1.6	0.2	0	0.0	0.7
25	19.64	36.40	0.7	0.9	1	0.2	0.7
50	19.51	36.35	3.0	1.8	2	0.0	0.2
75	19.21	36.33	0.5	0.3	1	0.8	0.4
100	18.83	36.38	0.6	0.5	3	0.6	0.7
150	15.98	*36.83	1.0	3.1	14	-	0.5
200	13.86	35.84	4.0	1.3	17	-	1.3
250	12.33	35.68	2.7	1.4	20	-	2.2
300	10.74	35.32	0.0	1.3	31	0.2	0.4
400	8.82	35.16	2.4	2.7	33	1.3	-
500	7.28	---	2.6	2.0	26	-	0.1
600	6.35	34.88	2.6	2.4	13	1.4	-
800	5.22	34.92	2.6	2.4	-	0.4	0.7
1000	4.60	34.94	2.4	1.7	27	-	0.2
1200	4.28	34.94	2.4	1.8	20	0.6	0.9

*Values not used to draw smooth curves.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	19.85	36.36	25.86	0.9	0.1	1	1.1	0.7
10	19.87	36.38	27.87	1.6	0.2	0	0.0	0.7
20	19.75	36.39	25.91	1.2	0.7	1	0.1	0.7
30	19.61	36.40	25.95	1.2	1.1	1	0.2	0.6
50	19.51	36.35	25.94	3.0	1.8	2	0.0	0.2
75	19.21	36.33	26.01	0.5	0.3	1	0.8	0.4
100	18.83	36.38	26.14	0.6	0.5	3	0.6	0.7
150	15.98	36.17	26.67	1.0	3.1	14	0.5	0.5
200	13.86	35.84	26.88	4.0	1.3	17	0.4	1.3
250	12.33	35.68	27.08	2.7	1.4	20	0.3	2.2
300	10.74	35.32	27.09	0.0	1.3	31	0.2	0.4
400	8.82	35.16	27.29	2.4	2.7	33	1.3	0.3
500	7.28	34.90	27.32	2.6	2.0	26	1.3	0.1
600	6.35	34.88	27.43	2.6	2.4	13	1.4	0.3
700	5.74	34.88	27.51	2.6	2.4	17	0.9	0.5
800	5.22	34.92	27.60	2.6	2.4	20	0.4	0.7
1000	4.60	34.94	27.69	2.4	1.7	27	0.5	0.2
1200	4.28	34.94	27.73	2.4	1.8	20	0.6	0.9

STATION NO. 8-3C-34

DATE 27 2 1953 LAT. 27° 28.0' N. LONG. 91° 45.0' W.
 Day Month Year
 TIME 1050 DEPTH 470 MAX. SAMPLE DEPTH 800 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 0 SWELL 70 ° T. 1 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS St 8 TEMP. 67.0 °F. 64.7 °F.
 Period Type Amount Dry Wet
 BAR. 30.06 in. REL. HUM 90 % WIND - ° T. 0 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	19.52	36.31	0.8	0.2	1	0.4	0.4
2	19.58	36.36	0.2	-	1	0.3	-
10	19.56	36.29	0.4	0.3	2	0.4	0.1
20	19.31	36.42	0.4	0.1	1	0.6	0.5
30	19.25	36.40	0.4	0.2	2	-	-
50	19.06	36.40	0.5	0.3	2	0.3	0.3
75	18.93	36.33	0.6	0.4	2	0.3	0.2
100	18.87	36.31	0.2	0.3	2	0.4	0.4
150	15.75	36.15	0.8	1.0	10	0.8	0.8
200	14.00	35.81	3.5	1.2	20	0.2	0.5
250	12.59	*36.00	1.6	1.4	24	-	0.4
300	11.26	35.39	2.3	1.4	23	0.5	0.2
400	9.27	35.14	2.3	2.0	33	0.0	0.2
500	7.76	35.01	0.6	2.2	29	-	0.2
600	6.48	34.96	2.4	2.0	30	0.4	1.2
800	5.36	34.90	2.1	2.4	26	1.6	0.7

*Values not used to draw smooth curves.

STATION NO. 8-3C-34

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	19.52	36.31	25.91					
10	19.56	36.29	25.88	0.8	0.2	1	0.4	0.4
20	19.31	36.42	26.05	0.4	0.3	1	0.4	0.1
30	19.25	36.42	26.05	0.4	0.1	1	0.6	0.5
50	19.06	36.40	26.05	0.4	0.2	2	0.5	0.4
75	18.93	36.40	26.10	0.5	0.3	2	0.3	0.3
100	18.87	36.33	26.08	0.6	0.4	2	0.3	0.2
150	18.87	36.31	26.08	0.2	0.3	2	0.4	0.4
200	15.75	36.15	26.71	0.8	1.0	10	0.8	0.8
250	14.00	35.81	26.83	3.5	1.2	20	0.2	0.5
300	12.59	35.56	26.94	1.6	1.4	24	0.4	0.4
400	11.26	35.39	27.05	2.3	1.4	23	0.5	0.2
500	9.27	35.14	27.20	2.3	2.0	33	0.0	0.2
600	7.76	35.01	27.34	0.6	2.2	29	0.2	0.2
700	6.48	34.96	27.48	2.4	2.0	30	0.4	1.2
800	5.88	34.92	27.52	2.3	2.2	28	1.0	0.9
	5.36	34.90	27.57	2.1	2.4	26	1.6	0.7

STATION NO. 8-3C-35

DATE 27 2 1953 LAT. 28° 10.0' N. LONG. 92° 52.0' W.
 Day Month Year
 TIME 2038 DEPTH 38 MAX. SAMPLE DEPTH 60 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 03 SEA 1 SWELL - ° T. 0 ft.
 Code Cu Code Code Direction Hgt.
 -- sec. CLOUDS Ac 6 TEMP. 68.6 °F. 65.9 °F.
 Period Type Amount Dry Wet
 BAR. 30.02 in. REL. HUM. 85 % WIND 200 °T. 1 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	19.78	36.29	0.2	0.4	0	0.0	0.0
2	19.81	36.29	1.7	0.7	1	0.0	0.0
10	19.52	36.36	0.4	0.2	1	0.0	1.2
20	19.52	36.33	0.4	0.2	0	0.0	1.6
40	18.97	36.31		0.2	1	1.0	0.3
50	18.60	36.29	0.4	0.2	1	0.0	1.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Ot	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	19.78	36.29	25.82	0.2	0.4	0	0.0	0.0
10	19.52	36.36	25.95	0.4	0.2	1	0.0	1.2
20	19.52	36.33	25.92	0.4	0.2	0	0.0	1.6
30	19.28	36.32	25.98	0.4	0.2	1	0.5	1.0
50	18.77	36.30	26.10	0.4	0.2	1	0.0	1.3

STATION NO. 8-3C-36

DATE 28 2 1953 LAT. 28° 47.0' N. LONG. 93° 44.0' W.
 Day Month Year
 TIME 0311 DEPTH 12 MAX. SAMPLE DEPTH 20 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 1 SWELL - ° T. 0 ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS -- 0 TEMP. 64.1 °F. 63.6 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 100 WIND 180 °T. 2 VIS 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/l	Prot. Mg/l
0	16.46	36.24	0.5	1.3	0	0.0	0.2
2	16.50	36.24	0.2	0.4	1	1.3	0.5
10	16.14	36.18	0.7	0.3	0	0.6	1.1
20	16.02	36.15	0.3	0.2	1	0.3	0.4

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/l	Prot. Mg/l
0	16.46	36.24	26.61	0.5	1.3	0	0.0	0.2
10	16.14	36.18	26.64	0.7	0.3	0	0.6	1.1
20	16.02	36.15	26.65	0.3	0.2	1	0.3	0.4

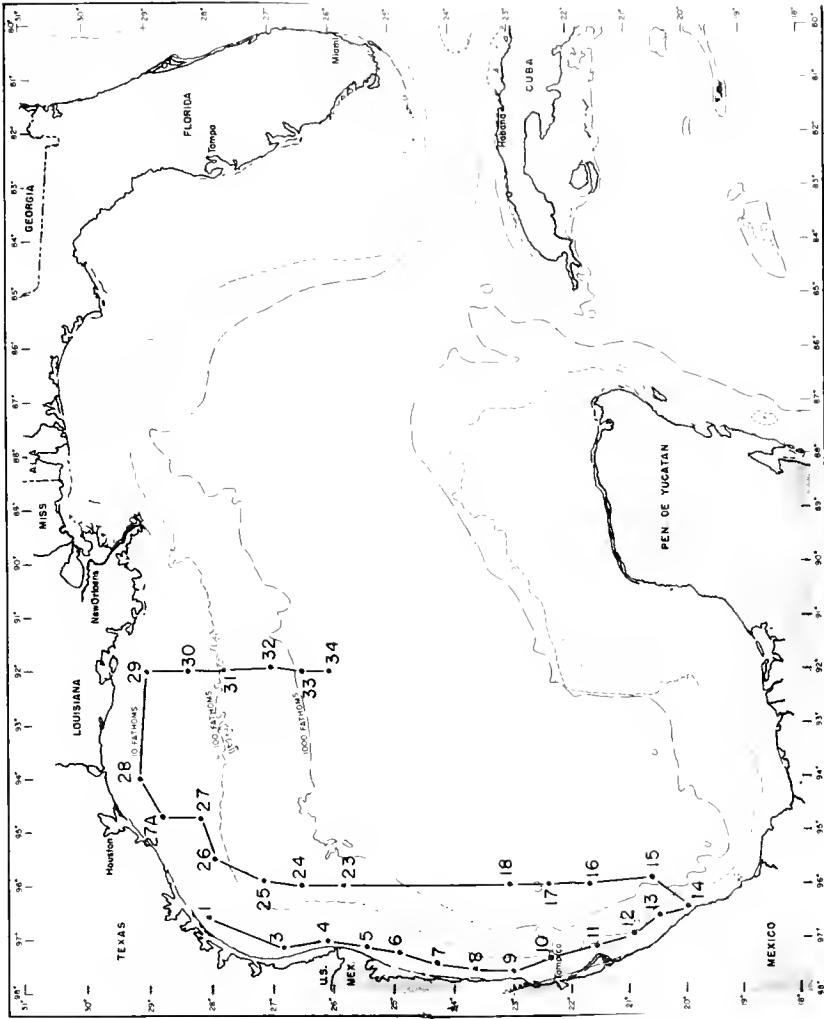


Figure 21.--Locations of stations occupied on Cruise 10-2B.

STATION NO. 10-2B-3

DATE 15 4 1953 LAT. 26° 48.0' N. LONG. 97° 05.5' W.
Day Month Year
 TIME 2245 DEPTH 16 MAX. SAMPLE DEPTH 22 WIRE ANGLE 0 °
GCT Faths. Meters
 WATER COLOR 40 WEATHER 01 SEA 1 SWELL 120 ° T. 2 ft.
Code Code Code Direction Hgt.
4 sec. CLOUDS C1 1 TEMP. 76.5 °F. 74.5 °F.
Period Type Amount Dry Wet
 BAR. 29.83 in. REL. HUM. 91 % WIND 100 ° T. 1 VIS. 6
Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.81	29.56	0.4	0.3	0	0.6	0.1
10	21.97	29.69	0.6	-	3	0.6	0.0
22	21.10	31.74	1.0	0.7	2	1.0	0.7

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.81	29.56	19.90	0.4	0.3	0	0.6	0.1
10	21.97	29.69	20.23	0.6	0.5	3	0.6	0.0
20	21.23	31.25	21.61	0.9	0.7	2	0.9	0.6

STATION NO. 10-2B-4

DATE 16 4 1953 LAT. 26° 08.5' N. LONG. 97° 08.0' W.
 Day Month Year
 TIME 0323 DEPTH 9 MAX. SAMPLE DEPTH 10 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 44 SEA 1 SWELL - ° T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS - F09 TEMP. 74.4 °F. 73.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.88 in. REL. HUM. 95 % WIND 140 ° T. 1 VIS. 3
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.14	30.32	0.8	0.3	0	0.8	0.5
10	22.99	32.18	0.7	0.5	0	0.0	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.14	30.32	20.38	0.8	0.3	0	0.8	0.5
10	22.99	32.18	21.82	0.7	0.5	0	0.0	0.3

STATION NO. 10-2B-5

DATE 16 4 1953 LAT. 25° 30.0' N. LONG. 97° 05.0' W.
 Day Month Year
 TIME 0859 DEPTH 15 MAX. SAMPLE DEPTH 25 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 111 SEA 1 SWELL - ° T. - ft.
 Code Code Code Direction Hgt.
 - sec. CLOUDS - Fog TEMP. 73.8 °F. 72.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.95 in. REL. HUM. 91 % WIND 20 ° T. 1 VIS. 3
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.78	33.62	0.7	0.6	0	0.6	0.0
10	22.15	33.44	-	0.4	0	0.6	0.3
25	22.48	33.89	0.5	0.5	0	0.3	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Total σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.78	33.62	22.97	0.7	0.6	0	0.6	0.0
10	22.15	33.44	23.01	0.6	0.4	0	0.6	0.3
20	22.20	33.64	23.15	0.5	0.5	0	0.4	0.2

STATION NO. 10-2B-6

DATE 16 4 1953 LAT. 24° 55.0' N. LONG. 97° 10.0' W.
 Day Month Year
 TIME 1320 DEPTH 28 MAX. SAMPLE DEPTH 50 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 1 SWELL 30 ° T. 3 ft.
 Code Cs Code Code Direction Hgt.
4 sec. CLOUDS Cu 8 TEMP. 75.3 °F. 72.8 °F.
 Period Type Amount Dry Wet
 BAR. 30.00 in. REL. HUM. 91 % WIND 25 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.28	36.45	0.5	0.4	0	0.6	0.3
10	24.28	36.60	0.6	0.2	0	0.0	1.1
25	23.96	36.51	0.3	0.0	0	0.4	0.0
50	21.38	36.40	0.5	0.5	1	0.0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.28	36.45	24.67	0.5	0.4	0	0.6	0.3
10	24.28	36.60	24.79	0.6	0.2	0	0.0	1.1
20	24.17	36.54	24.78	0.4	0.1	0	0.3	0.4
30	23.65	36.48	24.88	0.3	0.1	0	0.3	0.0
50	21.38	36.40	25.47	0.5	0.5	1	0.0	0.0

STATION NO. 10-2B-7

DATE 16 11 1953 LAT. 24° 14.0' N. LONG. 97° 21.0' W.
 Day Month Year
 TIME 1741 DEPTH 35 MAX. SAMPLE DEPTH 50 WIRE ANGLE 0 °
 Meters
 WATER COLOR 10 WEATHER 02 SEA 2 SWELL 010 ° T. 3 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Ac,Cu 7 TEMP. 76.3 °F. 73.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.05 in. REL. HUM. 91 % WIND 030 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.32	36.44	1.3	0.8	0	0.4	0.0
10	24.15	36.53	0.9	0.2	0	3.5	0.0
25	22.19	36.47	0.5	0.3	0	0.2	0.0
50	19.95	36.67	1.2	1.0	8	0.0	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.32	36.44	24.66	1.3	0.8	0	0.4	0.0
10	24.15	36.53	24.77	0.9	0.2	0	3.5	0.0
20	22.79	36.48	25.14	0.6	0.3	0	1.3	0.0
30	21.64	36.48	25.46	0.6	0.5	2	0.2	0.1
50	19.95	36.67	26.07	1.2	1.0	8	0.0	0.3

STATION NO. 10-2B-8

DATE 16 4 1953 LAT. 23° 40.0' N. LONG. 97° 35.0' W.
 Day Month Year
 TIME 2154 DEPTH 22 MAX. SAMPLE DEPTH 40 WIRE ANGLE 5 °
 Meters
 WATER COLOR 10 WEATHER 02 SEA 1 SWELL 080 ° T. 3 ft.
 Code Ci Code Code Direction Hgt.
5 sec. CLOUDS Cs,Cu 8 TEMP. 77.5 °F. 73.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 79 % WIND 080 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.77	36.74	0.2	0.1	0	0.0	0.0
10	24.35	36.49	0.4	0.1	0	0.0	0.2
25	23.92	36.51	0.3	0.3	0	0.0	0.0
40	22.60	36.60	0.5	0.4	0	0.0	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	24.77	36.74	24.75	0.2	0.1	0	0.0	0.0
10	24.35	36.49	24.68	0.4	0.1	0	0.0	0.2
20	24.16	36.50	24.75	0.3	0.2	0	0.0	0.1
30	23.58	36.53	24.94	0.4	0.3	0	0.0	0.1

STATION NO. 10-2B-9

DATE 17 4 1953 LAT. 22° 57.0' N. LONG. 97° 35.0' W.
 Day Month Year
 TIME 0240 DEPTH 25 MAX. SAMPLE DEPTH 39 WIRE ANGLE 10 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 2 SWELL 090 ° T. 3 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cs 8 TEMP. 78.0 °F. 74.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.94 in. REL. HUM. 83 % WIND 090 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.26	36.45	0.5	0.2	0	0.8	0.0
10	25.25	36.47	0.8	0.3	3	0.6	0.1
25	24.36	36.42	0.6	0.2	0	0.0	-
39	21.99	36.45	1.0	0.4	0	-	0.6

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.26	36.45	24.38	0.5	0.2	0	0.8	0.0
10	25.25	36.47	24.40	0.8	0.3	3	0.6	0.1
20	24.85	36.43	24.49	0.7	0.2	1	0.2	0.3
30	23.68	36.42	24.83	0.7	0.3	0	-	0.4

STATION NO. 10-2B-10

DATE 17 4 1953 LAT. 22° 20.0' N. LONG. 97° 24.0' W.
 Day Month Year
 TIME 0726 DEPTH --- MAX. SAMPLE DEPTH 50 WIRE ANGLE 3 °
 GCT Faths. Meters
 WATER COLOR 30 WEATHER 02 SEA 1 SWELL 100 ° T. 2 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS Cs 8 TEMP. 77.9 °F. 73.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.90 in. REL. HUM. 83 % WIND 100 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.68	36.49	0.6	0.3	1	0.0	0.0
10	25.67	36.47	1.1	0.2	0	0.2	0.2
25	24.06	36.45	0.3	0.3	0	0.2	0.8
50	22.07	36.45	0.4	0.2	0	0.0	0.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.68	36.49	24.28	0.6	0.3	1	0.0	0.0
10	25.67	36.47	24.27	1.1	0.2	0	0.2	0.2
20	24.56	36.46	24.60	0.6	0.3	0	0.2	0.6
30	23.59	36.45	24.88	0.3	0.3	0	0.2	0.6
50	22.07	36.45	25.32	0.4	0.2	0	0.0	0.0

STATION NO. 10-2B-11

DATE 17 4 1953 LAT. 21° 29.0' N. LONG. 97° 10.0'W.
 Day Month Year
 TIME 1445 DEPTH -- MAX. SAMPLE DEPTH 40 WIRE ANGLE 6 °
 GCT Faths.
 WATER COLOR 10 WEATHER 02 SEA 1 SWELL 110 ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Sc 8 TEMP. 77.4 °F. 76.4 °F.
 Period Type Amount Dry Wet
 BAR. 29.84 in. REL. HUM. 96 % WIND 185 ° T. 2 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.85	36.44	0.8	0.1	0	0.0	0.0
10	25.85	36.36	0.9	0.3	0	0.7	1.0
25	23.31	36.45	0.5	0.3	1	0.6	2.5
40	21.98	36.66	0.7	0.4	0	0.8	4.0

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.85	36.44	24.19	0.8	0.1	0	0.0	0.0
10	25.85	36.36	24.13	0.9	0.3	0	0.7	1.0
20	24.02	36.41	24.72	0.6	0.3	1	0.6	2.0
30	22.73	36.51	25.18	0.6	0.3	1	0.7	3.0

STATION NO. 10-2B-12

DATE 17 4 1953 LAT. 20° 59.0' N. LONG. 97 03.5' W.
 Day Month Year
 TIME 1854 DEPTH 26 MAX. SAMPLE DEPTH 35 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 1 SWELL 70 ° T. 2 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Cu 6 TEMP. 81.4 °F. 77.8 °F.
 Period Type Amount Dry Wet
 BAR. 29.78 in. REL. HUM. 84 % WIND 90 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.27	36.40	0.7	0.2	0	0.0	0.2
10	25.77	36.38	0.8	0.3	0	-	0.1
20	23.39	36.65	0.6	0.3	1	0.0	0.2
35	22.37	36.45	0.4	0.2	1	-	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.27	36.40	24.03	0.7	0.2	0	0.0	0.2
10	25.77	36.38	24.17	0.8	0.3	0	0.0	0.1
20	23.39	36.65	25.09	0.6	0.3	1	0.0	0.2
30	22.37	36.60	25.35	0.5	0.2	1	-	0.1

STATION NO. 10-2B-13

DATE 18 4 1953 LAT. 20° 27.0' N. LONG. 96° 40.0' W.
 Day Month Year
 TIME 0038 DEPTH 50 MAX. SAMPLE DEPTH 90 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 1 SWELL 090 ° T. 3 ft.
 Code Code Code Direction Hgt.
4 sec. CLOUDS Ac 6 TEMP. 79.8 °F. 77.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.69 in. REL. HUM. 87 % WIND 090 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.31	36.26	0.5	0.3	0	0.6	0.2
10	25.94	36.31	0.7	0.5	2	0.0	0.1
25	22.41	36.45	0.6	0.6	0	0.8	0.0
50	21.66	36.67	0.5	0.4	0	0.6	-
70	21.07	36.60	0.8	0.4	3	0.0	0.4
90	20.01	36.47	0.6	0.6	10	0.2	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.31	36.26	23.91	0.5	0.3	0	0.6	0.2
10	25.94	36.31	24.06	0.7	0.5	2	0.0	0.1
20	23.33	36.40	24.92	0.6	0.6	1	0.5	0.0
30	22.26	36.52	25.32	0.6	0.6	0	0.8	0.0
50	21.66	36.67	25.60	0.5	0.4	0	0.6	0.2
75	20.85	36.57	25.75	0.7	0.5	5	0.1	0.4

STATION NO. 10-2B-14

DATE 18 4 1953 LAT. 19° 57.0' N. LONG. 96° 21.0' W.
 Day Month Year
 TIME 0441 DEPTH 70 MAX. SAMPLE DEPTH 98 WIRE ANGLE 12 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 00 SEA 2 SWELL 130 ° T. 3 ft.
 Code Code Code Direction Hgt.
 -- sec. CLOUDS -- 0 TEMP. 80.0 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.72 in. REL. HUM. 87 % WIND 130 ° T. 4 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.86	36.35	0.6	0.2	0	0.6	0.2
10	25.86	36.35	0.6	0.2	0	0.2	0.4
25	24.43	36.29	0.4	0.2	0	0.0	0.1
49	22.46	36.45	1.2	0.4	0	0.0	0.4
74	19.65	36.47	1.7	0.8	9	0.0	0.0
98	18.88	36.53	1.2	0.9	14	0.2	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Ot	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.86	36.35	24.12	0.6	0.2	0	0.6	0.2
10	25.86	36.35	24.12	0.6	0.2	0	0.2	0.4
20	24.89	36.30	24.38	0.5	0.2	0	0.1	0.2
30	24.08	36.33	24.64	0.6	0.2	0	0.0	0.2
50	22.31	36.45	25.25	1.2	0.4	0	0.0	0.4
75	19.58	36.47	26.01	1.7	0.8	9	0.0	0.0

STATION NO. 10-2B-15

DATE 18 4 1953 LAT. 20° 40.0' N. LONG. 95° 55.5' W.
 Day Month Year
 TIME 1320 DEPTH 1000 MAX. SAMPLE DEPTH 759 WIRE ANGLE 40 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 2 SWELL 155 ° T. 4 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Cs 6 TEMP. 80.9 °F. 78.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.72 in. REL. HUM. 91 % WIND 110 ° T. 4 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	*21.19	36.55	0.1	0.2	0	0.0	0.4
8	26.06	36.40	0.3	0.2	2	-	0.8
18	26.07	36.42	0.3	0.2	0	0.6	0.1
38	24.30	36.40	0.2	0.1	1	0.0	0.0
56	22.86	36.51	0.2	0.7	1	-	0.3
76	22.05	36.44	0.2	0.3	0	0.3	0.8
112	19.05	36.44	0.6	0.5	10	1.6 ^a	0.2
150	18.64	36.20	0.9	0.6	13	0.0 ^a	0.1
187	15.43	36.04	0.7	0.7	17	0.0 ^a	0.2
222	8.96	35.81	1.5	1.2	23	1.3 ^a	0.1
294	11.85	35.39	1.8	1.6	23	0.0	0.1
364	10.40	35.25	2.0	1.8	31	0.2	0.2
437	9.36	35.14	2.0	2.0	30	0.0	0.0
---	*11.12	*35.30	2.2	1.8	25	0.4	0.1
535	7.54	34.96	1.9	1.8	32	0.0	0.0
759	5.65	34.90	1.7	1.7	38	0.7	0.7

* Values not used in drawing smooth curves.
 (a) Green carbohydrates.

STATION NO. 10-2B-15

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	* 21.19	36.55	25.64	0.1	0.2	0	0.0	0.4
10	26.11	36.41	24.08	0.3	0.2	2	0.3	0.7
20	25.88	36.41	24.16	0.3	0.2	0	0.5	0.1
30	24.99	36.39	24.41	0.2	0.1	1	0.2	0.0
50	23.27	36.49	25.00	0.2	0.1	1	0.1	0.2
75	22.10	36.44	25.30	0.2	0.3	0	0.3	0.8
100	19.77	36.46	25.95	0.5	0.4	7	1.2	0.4
150	18.64	36.20	26.05	0.9	0.6	13	0.0	0.1
200	12.43	35.95	27.26	1.0	0.9	19	0.5	0.2
250	10.61	35.61	27.34	1.6	1.4	23	0.8	0.1
300	11.71	35.38	26.96	1.8	1.6	24	0.0	0.1
400	9.92	35.20	27.14	2.0	1.9	31	0.1	0.1
500	8.12	35.01	27.28	1.8	1.8	33	0.2	0.2
600	6.67	34.89	27.40	1.7	1.7	37	0.5	0.5

*Values not used to draw smooth curves.

STATION NO. 10-2B-16

DATE 18 4 1953 LAT. 21° 41.0N. LONG. 96° 00.0' W.
 Day Month Year
 TIME 1944 DEPTH 1200 MAX. SAMPLE DEPTH 1203 WIRE ANGLE 30 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 2 SWELL 170 ° T. 6 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Haze - TEMP. 81.9 °F. 79.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.70 in. REL. HUM. 88 % WIND 150 ° T. 4 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	26.29	36.47	0.2	0.2	0	0.3	0.1
9	26.28	36.62	0.4	0.4	0	0.1	0.3
22	26.18	36.45	0.8	0.4	0	2.1	1.2
43	23.69	36.49	0.4	0.2	0	0.0	0.1
63	23.08	36.49	1.6	0.6	26	0.0	0.0
83	22.14	*37.00	0.3	0.3	4	0.0	0.8
124	19.13	36.42	1.2	0.7	10	-	0.2
164	17.34	36.26	1.0	1.0	14	0.8	0.0
244	14.06	35.81	0.8	0.8	0	0.0	0.1
322	11.54	35.43	1.4	1.4	24	1.2	0.0
392	9.54	35.17	2.2	2.1	25	-	0.0
458	8.12	35.03	2.4	2.7	28	0.2	-
592	6.31	34.92	2.1	2.1	25	-	0.8
745	5.28	34.88	2.4	2.8	8	0.0	0.4
918	4.68	34.96	2.2	1.8	25	0.0	-
1203	4.23	35.05	1.3	1.3	23	0.6	0.0

*Values not used to draw smooth curves.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.29	36.47	24.07	0.2	0.2	0	0.3	0.1
10	26.31	36.60	24.16	0.4	0.4	0	0.3	0.4
20	26.27	36.47	24.08	0.7	0.4	0	1.8	1.1
30	25.01	36.47	24.47	0.6	0.3	0	1.3	0.8
50	23.51	36.42	24.88	0.8	0.3	9	0.0	0.1
75	22.56	36.92	25.54	0.8	0.4	13	0.0	0.5
100	20.75	36.75	25.91	0.7	0.5	6	0.2	0.6
150	17.96	36.32	26.31	1.1	0.9	13	0.7	0.1
200	15.78	36.05	26.62	0.9	0.9	8	0.4	0.0
250	13.86	35.78	26.84	0.8	0.8	2	0.1	0.1
300	12.22	35.53	26.98	1.2	1.2	17	0.9	0.0
400	9.35	35.15	27.20	2.2	2.2	25	0.6	0.0
500	7.46	34.99	27.37	2.3	2.5	27	0.2	0.4
600	6.24	34.92	27.48	2.1	2.1	24	0.1	0.8
800	5.06	34.91	27.62	2.3	2.5	13	0.0	0.4
1000	4.48	34.99	27.75	1.9	1.7	24	0.2	0.2
1200	4.23	35.05	27.82	1.3	1.3	23	0.6	0.0

STATION NO. 10-2B-17

DATE 19 4 1953 LAT. 22° 21.0' N. LONG. 96° 00.0' W.
 Day Month Year
 TIME 0153 DEPTH 1400 MAX. SAMPLE DEPTH 1712 WIRE ANGLE 8 °
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 02 SEA 1 SWELL 170 ° T. 2 ft.
 Code Code Code Direction Hgt.
8 sec. CLOUDS -- --- TEMP. 80.3 °F. 78.1 °F.
 Period Type Amount Dry Wet
 BAR. 29.74 in. REL. HUM. 91 % WIND -- ° T. 1 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	26.19	36.42	0.3	0.2	0	0.2	0.1
10	26.19	36.40	1.1	1.1	0	0.2	-
24	26.03	36.40	0.3	0.1	0	0.8	0.9
49	23.31	36.35	1.7	1.0	0	0.2	0.0
73	22.73	36.47	0.4	0.5	0	0.4	0.0
98	21.99	36.51	0.7	0.7	0	-	0.2
147	18.49	36.58	1.3	0.7	12	0.0	0.6
195	16.03	36.18	0.8	0.8	15	0.0	0.1
293	12.14	35.70	1.6	1.4	22	-	0.0
390	9.92	35.19	1.6	1.5	27	0.0	0.0
486	8.19	35.03	2.2	2.0	32	-	0.1
583	6.92	34.97	2.0	2.0	29	1.0	0.1
864	4.94	34.97	2.1	2.0	28	0.1	0.0
1140	4.32	34.96	2.2	1.9	--	0.1	0.0
1420	4.18	34.99	1.8	1.8	24	0.4	0.7
1712	4.14	35.07	0.8	1.6	22	0.6	0.2

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	26.19	36.42	24.07	0.3	0.2	0	0.2	0.1
10	26.19	36.40	24.05	1.1	1.1	0	0.2	0.4
20	26.18	36.40	24.05	0.5	0.4	0	0.6	0.8
30	25.18	36.37	24.34	0.6	0.3	0	0.7	0.7
50	23.29	36.36	24.90	1.6	0.9	0	0.2	0.0
75	22.70	36.47	25.15	0.4	0.5	0	0.4	0.0
100	21.83	36.52	25.44	0.7	0.7	0	0.3	0.2
150	18.33	36.55	26.39	1.3	0.7	12	0.0	0.6
200	15.79	36.16	26.71	0.8	0.8	15	0.0	0.1
250	13.64	35.91	26.98	1.2	1.1	19	0.0	0.0
300	11.96	35.65	27.12	1.6	1.4	22	0.0	0.0
400	9.72	35.17	27.15	1.7	1.6	28	0.1	0.0
500	7.99	35.02	27.31	2.2	2.0	32	0.6	0.1
600	6.76	34.97	27.45	2.0	2.0	29	0.9	0.1
800	5.27	34.97	27.64	2.1	2.0	28	0.3	0.0
1000	4.57	34.96	27.71	2.1	2.0	27	0.1	0.0
1200	4.28	34.96	27.75	2.1	2.0	26	0.2	0.2
1500	4.16	35.01	27.80	1.5	1.7	23	0.5	0.6

STATION NO. 10-2B-18

DATE 19 4 1953 LAT. 23° 01.0' N. LONG. 96° 00.0' W.
 Day Month Year
 TIME 0805 DEPTH 1400 MAX. SAMPLE DEPTH 1651 WIRE ANGLE 13 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 1 SWELL 070 ° T. 3 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS -- -- TEMP. 79.6 °F. 77.7 °F.
 Period Type Amount Dry Wet
 BAR. 29.87 in. REL. HUM. 91 % WIND 050 ° T. 3 VIS. 7
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total		NO ₃ -N	Carb. Mg/l	Prot. Mg/l
			PO ₄ -P	Inorg. PO ₄ -P			
0	25.97	36.51	0.5	0.3	0	1.2	0.1
10	25.98	36.47	0.5	0.2	0	0.7	0.4
24	25.85	36.47	0.4	0.4	0	0.0	0.2
48	23.79	36.45	0.4	0.0	0	1.1	0.1
71	22.69	36.44	0.2	0.1	20	0.5	0.0
94	22.10	36.42	0.4	0.3	1	0.1	0.6
138	19.91	36.44	0.7	0.4	8	0.2	0.1
180	17.09	36.23	1.8	0.9	14	0.0	0.2
268	13.35	35.68	1.5	1.2	20	0.4	0.0
357	10.91	35.35	1.4	1.4	24	1.6	-
447	9.25	---	2.2	1.9	27	0.1	0.6
537	8.02	34.99	2.5	2.5	32	0.2	0.2
808	5.50	*35.12	2.7	2.2	30	0.0	0.4
1082	4.61	34.97	2.3	2.3	26	0.4	0.2
1362	4.24	34.97	2.0	2.4	0	0.0	0.1
1651	4.17	34.97	1.6	1.6	20	1.0	0.1

* Values not used to draw smooth curves.

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.97	36.51	24.20	0.5	0.3	0	1.2	0.1
10	25.98	36.47	24.17	0.5	0.2	0	0.7	0.4
20	25.97	36.47	24.17	0.4	0.4	0	0.0	0.2
30	25.25	36.46	24.39	0.4	0.3	0	0.4	0.2
50	23.67	36.45	24.86	0.4	0.0	2	1.0	0.1
75	22.61	36.44	25.16	0.2	0.1	17	0.4	0.1
100	21.85	36.44	25.37	0.4	0.3	2	0.1	0.5
150	19.04	36.38	26.08	1.0	0.5	10	0.1	0.1
200	16.12	36.09	26.58	1.7	1.0	15	0.1	0.2
250	14.01	35.77	26.80	1.6	1.1	19	0.3	0.0
300	12.38	35.55	26.96	1.5	1.3	21	0.8	0.1
400	10.06	35.23	27.14	1.8	1.6	25	0.9	0.4
500	8.50	35.03	27.24	2.4	2.4	30	0.2	0.4
600	7.29	35.04	27.43	2.5	2.4	32	0.2	0.2
800	5.55	35.12	27.73	2.7	2.2	30	0.0	0.4
1000	4.82	35.00	27.72	2.4	2.3	27	0.3	0.3
1200	4.42	34.97	27.74	2.2	2.4	15	0.2	0.2
1500	4.17	34.97	27.77	1.8	2.0	10	0.5	0.1

STATION NO. 10-2B-23

DATE 20 4 1953 LAT. 25° 51.0'N. LONG. 96° 00.0' W.
 Day Month Year
 TIME 1948 DEPTH 530 MAX. SAMPLE DEPTH 742 WIRE ANGLE 12 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 3 SWELL 020 ° T. 6 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Cu 5 TEMP. 68.4 °F. 60.1 °F.
 Period Type Amount Dry Wet
 BAR. 30.27 in. REL. HUM. 62 % WIND 350 ° T. 4 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.05	36.44	0.7	0.6	0	0.0	0.1
10	23.06	---	0.2	0.0	0	0.0	-
19	23.08	36.40	0.9	0.5	0	0.4	0.2
28	23.10	36.53	1.0	0.7	0	-	0.2
46	20.72	36.47	0.3	0.3	0	0.0	0.3
67	20.08	36.35	0.3	0.1	20	1.2	0.2
90	18.29	36.45	0.4	0.4	8	0.0	0.3
134	15.76	36.22	1.2	0.9	14	0.0	0.8
179	14.16	36.00	1.1	1.1	18	0.4	0.2
224	12.79	35.68	0.7	0.9	22	-	0.1
270	11.66	35.48	1.9	1.5	0	0.0	0.4
361	9.86	35.39	1.6	2.5	25	1.2	0.1
453	8.39	35.08	2.4	2.0	27	0.0	0.2
547	7.34	34.97	2.2	2.0	28	1.4	0.4
742	5.85	34.94	2.1	2.0	27	0.8	0.1

STATION NO. 10-2B-23

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.05	34.44	23.52	0.7	0.6	0	0.0	0.1
10	23.06	35.76	24.51	0.2	0.0	0	0.0	0.2
20	23.12	36.42	24.99	0.9	0.4	0	0.4	0.2
30	22.75	36.53	25.19	0.9	0.0	0	0.2	0.2
50	20.67	36.43	25.69	0.3	0.3	4	0.2	0.3
75	19.42	36.40	26.00	0.3	0.2	16	0.8	0.2
100	17.63	36.40	26.45	0.5	0.5	9	0.0	0.4
150	15.16	36.15	26.84	1.2	1.0	15	0.1	0.6
200	13.49	35.84	26.96	0.9	1.0	20	0.3	0.2
250	12.13	35.55	27.01	1.4	1.2	10	0.1	0.3
300	11.03	35.47	27.15	1.8	1.8	8	0.4	0.3
400	9.18	35.23	27.29	1.9	2.3	26	0.7	0.1
500	7.84	35.02	27.33	2.3	2.0	28	0.7	0.3
600	6.84	34.94	27.41	2.2	2.0	28	1.2	0.3

STATION NO. 10-2B-24

DATE 21 4 1953 LAT. 26° 31.5'N. LONG. 96° 00.0' W.
 Day Month Year
 TIME 0146 DEPTH 600 MAX. SAMPLE DEPTH 842 WIRE ANGLE 18 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 2 SWELL 035 ° T. 2 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS Ac, As 8 TEMP. 66.1 °F. 57.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.18 in. REL. HUM. 57% WIND 050 ° T. 3 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.98	36.42	0.5	0.2	1	0.3	0.2
9	23.05	36.42	0.7	0.2	0	0.4	0.0
18	23.12	36.51	0.3	0.0	0	0.4	0.5
28	23.05	36.38	-	0.0	0	0.0	0.3
47	20.30	36.42	0.4	0.4	0	1.2	0.5
71	19.51	36.40	0.5	0.3	4	0.6	0.5
94	18.82	36.26	0.7	0.3	4	0.0	0.0
141	17.01	36.24	1.4	0.9	14	0.0	0.2
188	14.57	35.91	1.4	1.2	0	0.1	0.2
235	13.18	35.64	1.5	0.7	22	0.0	0.1
282	11.86	35.59	2.1	1.7	24	0.2	0.0
374	9.97	35.17	3.2	2.6	24	1.0	0.3
466	8.48	35.10	2.7	2.1	28	0.2	0.0
559	7.30	34.90	2.5	1.5	29	0.9	-
653	6.54	34.92	2.5	2.2	36	0.0	0.3
842	5.31	34.97	2.2	2.8	29	1.2	0.2

STATION NO. 10-2B-24

VALUES AT STANDARD DEPTHS								
Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.98	36.42	25.04	0.5	0.2	1	0.3	0.2
10	23.06	36.44	25.03	0.7	0.2	0	0.4	0.0
20	23.18	36.48	25.02	0.3	0.0	0	0.4	0.5
30	22.67	36.39	25.10	0.3	0.0	0	0.1	0.3
50	20.20	36.42	25.81	0.4	0.4	1	1.1	0.5
75	19.40	36.37	25.98	0.5	0.3	4	0.5	0.4
100	18.62	36.27	26.11	0.8	0.4	5	0.0	0.0
150	16.46	36.17	26.56	1.4	1.0	11	0.0	0.2
200	14.21	35.82	26.79	1.4	1.1	6	0.1	0.2
250	12.73	35.64	26.96	1.7	1.0	23	0.1	0.1
300	11.46	35.48	27.08	2.3	1.9	24	0.4	0.1
400	9.52	35.16	27.18	3.1	2.5	25	0.8	0.2
500	8.00	35.00	27.29	2.6	1.9	28	0.4	0.1
600	6.96	34.91	27.37	2.5	1.8	32	0.5	0.2
800	5.55	34.96	27.60	2.1	2.7	31	0.9	0.2

STATION NO. 10-2B-25

DATE 21 4 1953 LAT. 27° 08.5' N. LONG. 96° 00.0' W.
 Day Month Year
 TIME 0718 DEPTH 360 MAX. SAMPLE DEPTH 650 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 1 SWELL 150 ° T. 2 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS Ac 1 TEMP. 66.3 °F. 57.5 °F.
 Period Type Amount Dry Wet
 BAR. 30.15 in. REL. HUM. 61% WIND 170° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.38	36.49	0.5	0.3	0	0.7	0.2
10	22.41	36.45	0.6	0.2	0	0.3	0.5
20	22.45	36.40	0.5	0.5	0	0.0	0.3
30	22.46	36.42	0.2	0.1	0	0.2	0.1
50	22.38	36.38	0.4	0.1	0	0.0	-
75	19.87	36.49	0.8	0.5	8	0.0	0.0
100	19.34	36.31	0.5	0.2	1	0.4	0.2
150	17.52	36.24	0.8	0.7	12	0.0	0.1
200	15.48	36.02	1.3	0.9	16	0.4	0.0
250	13.58	35.75	0.8	0.9	20	-	0.2
300	12.13	35.52	1.5	1.8	25	0.0	0.4
400	9.83	35.14	-	1.8	26	0.0	0.5
500	8.30	35.10	2.4	1.7	30	0.8	0.0
600	6.46	34.90	2.5	2.4	31	0.0	0.0

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	22.38	36.49	25.26	0.5	0.3	0	0.7	0.2
10	22.41	36.45	25.22	0.6	0.2	0	0.3	0.5
20	22.45	36.40	25.17	0.5	0.5	0	0.0	0.3
30	22.46	36.42	25.18	0.2	0.1	0	0.2	0.1
50	22.38	36.38	25.18	0.4	0.1	0	0.0	0.1
75	19.87	36.49	25.95	0.8	0.5	8	0.0	0.0
100	19.34	36.31	25.95	0.5	0.2	1	0.4	0.2
150	17.52	36.24	26.36	0.8	0.7	12	0.0	0.1
200	15.48	36.02	26.67	1.3	0.9	16	0.4	0.0
250	13.58	35.75	26.87	0.8	0.9	20	0.2	0.2
300	12.13	35.52	26.99	1.5	1.8	25	0.0	0.4
400	9.83	35.14	27.11	2.0	1.8	26	0.0	0.5
500	8.30	35.10	27.33	2.4	1.7	30	0.8	0.0
600	7.01	34.99	27.43	2.5	2.2	31	0.3	0.0

STATION NO. 10-2B-26

DATE 21 4 1953 LAT. 27° 45.0' N. LONG. 95° 30.0' W.
 Day Month Year
 TIME 1356 DEPTH -- MAX. SAMPLE DEPTH 95 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 30 WEATHER 00 SEA 1 SWELL 100 ° T. 1 ft.
 Code Code Code Direction Hgt
5 sec. CLOUDS -- 0 TEMP. 67.1 °F. 59.0 °F.
 Period Type Amount Dry Wet
 BAR. 30.12 in. REL. HUM. 62% WIND 095 ° T. 1 VIS. 8
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	20.87	34.83	0.4	0.3	0	0.0	0.0
10	20.92	34.69	0.5	0.2	0	0.0	0.1
20	21.11	34.83	-	-	0	0.4	0.1
30	20.02	35.39	0.5	0.1	1	0.0	0.3
50	18.11	36.06	0.5	0.2	2	0.0	0.3
75	17.79	36.15	0.1	0.3	1	0.4	0.0
95	17.74	36.18	0.3	0.2	1	0.2	0.1

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	20.87	34.83	24.42	0.4	0.3	0	0.0	0.0
10	20.92	34.69	24.30	0.5	0.2	0	0.0	0.1
20	21.11	34.83	24.35	0.5	0.2	0	0.4	0.1
30	20.02	35.39	25.07	0.5	0.1	1	0.0	0.3
50	18.11	36.06	26.07	0.5	0.2	2	0.0	0.3
75	17.79	36.15	26.22	0.1	0.3	1	0.4	0.0

STATION NO. 10-2B-27

DATE 21 4 1953 LAT. 28° 09.0' N. LONG. 95° 02.0' W.
 Day Month Year
 TIME 1810 DEPTH 28 MAX. SAMPLE DEPTH 40 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 20 WEATHER 03 SEA 2 SWELL 140 ° T. 1 ft.
 Code Code Code Direction Hgt.
3 sec. CLOUDS Ci,Cs 8 TEMP. 68.2 °F. 60.4 °F.
 Period Type Amount Dry Wet
 BAR. 30.13 in. REL. HUM. 62 % WIND 140 ° T. 2 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	21.50	36.06	0.6	0.4	0	0.0	0.3
10	21.41	36.04	0.4	0.2	0	0.0	0.2
20	21.37	36.09	0.4	0.1	0	0.4	0.4
30	21.22	36.13	0.7	0.2	1	0.2	0.0
40	18.31	36.08	-	-	0	0.1	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	21.50	36.06	25.18	0.6	0.4	0	0.0	0.3
10	21.41	36.04	25.19	0.4	0.3	0	0.0	0.2
20	21.37	36.09	25.24	0.4	0.1	0	0.4	0.4
30	21.22	36.13	25.31	0.7	0.2	1	0.2	0.0

STATION NO. 10-2B-28

DATE 1 5 1953 LAT. 29° 12.0' N. LONG. 94° 00.0'W.
 Day Month Year
 TIME 0310 DEPTH 8 MAX. SAMPLE DEPTH 12 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 40 WEATHER 02 SEA 03 SWELL 165 ° T. 2 ft.
 Code Code Code Direction Hgt.
7 sec. CLOUDS -- -- TEMP. 73.0 °F. 71.4 °F.
 Period Type Amount Dry Wet
 BAR. 26.63 in. REL. HUM. 91.3% WIND 180 ° T. 3 VIS. 9
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total	Inorg.	NO ₃ -N	Carb.	Prot.
			PO ₄ -P	PO ₄ -P		Mg/1	Mg/1
0	22.89	31.62	0.5	0.4	3	0.0	0.2
4	22.92	31.49	0.6	0.6	4	0.0	0.2
12	22.20	31.85	0.6	0.5	3	0.2	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total	Inorg.	NO ₃ -N	Carb.	Prot.
				PO ₄ -P	PO ₄ -P		Mg/1	Mg/1
0	22.89	31.62	---	0.5	0.4	3	0.0	0.2
10	22.40	31.61	---	0.6	0.6	4	0.1	0.2

STATION NO. 10-2B-29

DATE 1 5 1953 LAT. 29° 01.5' N. LONG. 92° 00.0' W.
 Day Month Year
 TIME 1555 DEPTH 8 MAX. SAMPLE DEPTH 12 WIRE ANGLE 5 °
 GCT Faths. Meters
 WATER COLOR 50 WEATHER 47 SEA 02 SWELL 140 ° T. 4 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS 0(St) 9 TEMP. 76.3 °F. 75.2 °F.
 Period Type Amount Dry Wet
 BAR. 29.70 in. REL. HUM. 95.0% WIND 130 ° T. 3 VIS. 2
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.82	33.12	0.5	0.3	-	0.6	0.2
4	22.80	33.10	1.7	1.0	1	0.4	0.2
12	22.74	33.19	0.6	0.4	0	0.0	0.2

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Prot. Mg/l Mg/l
0	22.82	33.12	--	0.5	0.3	-	0.6 0.2
10	22.79	33.15	--	1.2	0.7	1	0.2 0.2

STATION NO. 10-2B-30

DATE 1 5 1953 LAT. 28° 21.5' N. LONG. 92° 00.0' W.
 Day Month Year
 TIME 2105 DEPTH 35 MAX. SAMPLE DEPTH 50 WIRE ANGLE 5 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 42 SEA 3 SWELL 170 ° T. 3 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS St 1 TEMP. 76.4 °F. 75.6 °F.
 Period Type Amount Dry Wet
 BAR. 29.68 in. REL. HUM. 100 % WIND 120 ° T. 3 VIS. 4
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.92	36.29	0.7	0.4	0	1.3	0.0
10	22.05	36.29	0.8	1.0	2	0.2	0.1
20	22.06	36.27	1.2	0.5	2	0.0	0.3
30	22.01	36.29	0.5	0.6	2	0.2	0.3
50	19.85	36.27	0.5	0.3	1	0.5	0.3

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ _t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	22.92	36.29	24.95	0.7	0.4	0	1.3	0.0
10	22.05	36.29	25.20	0.8	1.0	2	0.2	0.1
20	22.06	36.27	25.18	1.2	0.5	2	0.0	0.3
30	22.01	36.29	25.21	0.5	0.6	2	0.2	0.3
50	19.85	36.27	25.79	0.5	0.3	1	0.5	0.3

STATION NO. 10-2B-31

DATE 2 5 1953 LAT. 27° 41.5' N. LONG. 92° 00.0' W.
 Day Month Year
 TIME 0310 DEPTH 400 MAX. SAMPLE DEPTH 396 WIRE ANGLE 0 °
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 02 SEA 3 SWELL 180 ° T. 3 ft.
 Code Code Code Direction Hgt.
6 sec. CLOUDS - 5 TEMP. 77.1 °F. 74.9 °F.
 Period Type Amount Dry Wet
 BAR. 29.72 in. REL. HUM. 91 % WIND 200 ° T. 3 VIS. 5
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.86	34.94	0.4	0.2	2	1.0	0.1
8	23.88	36.42	0.3	0.5	0	0.0	0.2
25	23.90	36.45	0.6	0.5	3	0.4	0.9
40	23.53	36.42	0.3	0.3	1	0.0	0.3
56	23.33	36.42	0.7	0.6	2	0.9	0.7
73	22.13	36.42	0.4	0.2	0	4.0	0.9
108	19.39	36.35	0.4	-	8	0.6	0.2
143	18.04	36.31	1.5	1.0	14	0.4	0.4
180	15.91	36.06	1.1	0.9	13	0.1	0.1
220	---	36.00	1.3	1.2	18	0.8	0.3
306	11.04	35.39	2.3	1.6	17	0.0	0.3
396	8.60	35.03	1.9	1.9	30	0.0	0.9

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	Ot	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.86	34.94	23.66	0.4	0.2	2	1.0	0.1
10	23.91	36.43	24.77	0.3	0.5	0	0.0	0.3
20	23.94	36.45	24.78	0.5	0.5	2	0.3	0.7
30	23.76	36.44	24.82	0.5	0.4	2	0.3	0.7
50	23.51	36.42	24.88	0.6	0.5	2	0.6	0.6
75	21.94	36.42	25.33	0.4	0.2	0	3.8	0.9
100	19.89	36.36	25.85	0.4	0.5	6	1.4	0.4
150	17.61	36.25	26.34	1.4	1.0	14	0.3	0.3
200	15.02	36.05	26.79	1.2	1.1	15	0.5	0.2
250	12.99	35.76	27.00	1.6	1.3	18	0.5	0.3
300	11.23	35.42	27.08	2.2	1.6	17	0.1	0.3

STATION NO. 10-2B-32

DATE 2 5 1953 LAT. 27° 00.0' N. LONG. 91° 57.0' W.
 Day Month Year
 TIME 1100 DEPTH 900 MAX. SAMPLE DEPTH 1486 WIRE ANGLE 10°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 00 SEA 3 SWELL 160 ° T. 3 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS St 1 TEMP. 75.9 °F. 75.9 °F.
 Period Type Amount Dry Wet
 BAR. 29.74 in. REL. HUM. 100 % WIND 145 °T. 2 VIS. 4
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.86	---	0.3	0.2	-	0.0	0.4
10	23.86	36.51	0.9	0.4	0	0.0	0.3
25	23.50	36.49	0.5	0.2	3	0.0	0.3
49	23.39	36.47	1.0	1.0	2	0.3	0.3
74	20.23	36.36	0.7	0.3	4	0.0	0.1
98	18.42	36.33	1.5	0.3	12	0.2	0.2
147	15.96	36.08	3.1	1.7	16	-	0.0
196	14.19	35.81	1.3	1.2	23	0.0	0.3
293	10.97	35.34	1.6	1.5	26	0.2	0.0
390	8.93	35.05	2.4	1.8	28	0.8	0.0
488	7.37	34.88	2.7	2.1	21	0.3	0.4
587	6.41	34.85	2.3	2.5	26	0.0	0.1
785	5.21	34.87	2.3	2.4	25	0.2	0.2
985	4.64	34.90	2.0	1.7	22	0.6	0.1
1185	4.29	34.97	2.4	1.9	21	2.0	0.3
1486	4.16	34.94	1.5	1.2	21	0.3	0.1

STATION NO. 10-2B-32

Depth	VALUES AT STANDARD DEPTHS							
	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.86	36.53	24.86	0.3	0.2	-	0.0	0.4
10	23.86	36.51	24.85	0.9	0.4	0	0.0	0.3
20	23.60	36.50	24.91	0.6	0.3	2	0.0	0.3
30	23.71	36.49	24.87	0.6	0.4	3	0.1	0.3
50	23.24	36.46	24.99	1.0	1.0	2	0.3	0.3
75	20.15	36.36	25.78	0.7	0.3	4	0.0	0.1
100	18.31	36.32	26.22	1.6	0.4	12	0.2	0.2
150	15.85	36.06	26.61	3.0	1.7	16	0.1	0.0
200	14.03	35.79	26.81	1.3	1.2	23	0.0	0.3
250	12.25	35.53	26.97	1.5	1.4	25	0.1	0.1
300	10.81	35.32	27.08	1.7	1.5	26	0.2	0.0
400	8.74	35.03	27.20	2.4	1.8	27	0.7	0.0
500	7.24	34.87	27.30	2.7	2.1	22	0.3	0.4
600	6.31	34.85	27.41	2.3	2.5	26	0.0	0.1
800	5.16	34.87	27.57	2.3	2.3	25	0.3	0.2
1000	4.61	34.91	27.67	2.0	1.7	22	0.7	0.1
1200	4.27	34.97	27.76	2.4	1.9	21	1.9	0.3

STATION NO. 10-2B-33

DATE 2 5 1953 LAT. 26° 30.0' N. LONG. 91° 59.0' W.
 Day Month Year
 TIME 1623 DEPTH 1000 MAX. SAMPLE DEPTH 835 WIRE ANGLE 60°
 GCT Faths. Meters
 WATER COLOR 00 WEATHER 05 SEA 4 SWELL 175 ° T. 5 ft.
 Code Code Code Direction Hgt.
5 sec. CLOUDS 0 (St) 7 TEMP. 77.0 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.80 in. REL. HUM. 100 % WIND 180 °T. 4 VIS. 6
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.86	36.45	13.2	5.3	0	-	0.4
2	23.84	36.45	0.3	0.1	0	-	0.3
8	23.70	36.53	0.6	0.3	1	0.0	0.5
28	20.72	36.38	0.7	0.4	2	0.0	0.3
32	19.58	36.40	0.5	0.2	3	26.6	0.1
44	20.61	36.38	0.5	0.3	2	0.0	0.1
66	19.27	36.42	0.9	0.4	8	0.0	0.1
87	17.78	36.33	0.8	0.4	12	1.2	0.4
135	15.47	36.02	1.5	1.1	14	0.2	0.1
184	13.82	35.84	1.0	0.9	21	1.0	0.3
234	12.30	35.52	-	1.5	20	0.8	0.5
284	11.28	35.53	2.2	1.8	0	0.0	0.1
436	---	*36.47	0.3	0.3	26	0.0	0.2
595	11.32	35.43	-	1.6	29	0.7	0.1
777	5.62	35.03	2.0	1.8	29	0.0	0.5
835	5.10	35.08	1.0	1.0	36	green	0.0

*Values not used to draw smooth curves.

STATION NO. 10-2B-33

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	23.86	36.45	24.80	13.2	5.3	0	--	0.4
10	23.61	36.50	24.91	0.6	0.3	1	0.0	0.5
20	22.46	36.39	25.16	0.7	0.4	2	0.0	0.4
30	20.06	36.39	25.82	0.6	0.3	3	13.3	0.2
50	20.27	36.40	25.78	0.6	0.3	4	0.0	0.1
75	18.60	36.38	26.20	0.9	0.4	10	0.5	0.2
100	17.09	36.23	26.45	1.0	0.6	13	0.9	0.3
150	14.95	35.98	26.76	1.3	1.0	16	0.4	0.2
200	13.28	35.70	26.90	1.3	1.1	21	0.9	0.4
250	11.94	35.51	27.01	1.8	1.6	14	0.6	0.4
300	11.58	35.72	27.25	2.0	1.6	3	0.0	0.1
400	12.74	36.42	27.56	0.8	0.7	20	0.0	0.2
500	12.62	35.97	27.24	0.6	0.8	27	0.3	0.2
600	11.08	35.41	27.10	1.1	1.6	29	0.7	0.1
800	5.34	35.04	27.69	1.6	1.5	32	-	0.3

STATION NO. 10-2B-34

DATE 2-3 5 1953 LAT. 26° 00.0' N. LONG. 92° 00.0' W.
 Day Month Year
 TIME 0018 DEPTH 1200 MAX. SAMPLE DEPTH 1416 WIRE ANGLE 18°
 GCT Faths. Meters
 WATER COLOR 10 WEATHER 01 SEA 3 SWELL 140 ° T. 3 ft.
 Code Code Code Direction Hgt
6 sec. CLOUDS -- 0 TEMP. 77.0 °F. 77.0 °F.
 Period Type Amount Dry Wet
 BAR. 29.76 in. REL. HUM. 100% WIND 140 ° T. 3 VIS. 6
 Direction Force Code

OBSERVED VALUES

Depth	Temp. °C	Sal. ‰	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/l	Prot. Mg/l
0	25.01	36.53	0.5	0.3	0	0.2	0.2
9	24.90	36.55	0.3	0.3	1	0.1	0.2
23	24.22	36.53	0.2	0.2	1	0.1	0.0
47	21.25	36.53	0.1	0.0	4	0.0	0.4
70	19.12	36.36	-	-	8	0.0	0.1
93	17.63	36.35	-	-	13	1.0 ^a	0.0
139	15.21	36.00	0.4	0.3	20	0.0	0.5
184	13.19	35.66	0.7	0.6	17	0.2 ^a	0.1
276	11.14	35.52	0.9	0.8	28	1.0	0.3
368	9.45	35.14	1.1	0.4	28	0.6	0.2
461	7.96	34.96	2.5	2.2	32	1.6	0.1
554	6.88	34.88	2.5	2.5	32	0.0	1.1
834	5.02	34.94	1.9	1.8	4	0.2	0.2
1121	4.35	35.05	2.0	1.8	-	-	0.0
1416	4.18	34.97	2.0	1.9	25	0.0	0.2

(a) Green carbohydrates.

STATION NO. 10-2B-34

VALUES AT STANDARD DEPTHS

Depth	Temp. °C	Sal. ‰	σ_t	Total PO ₄ -P	Inorg. PO ₄ -P	NO ₃ -N	Carb. Mg/1	Prot. Mg/1
0	25.01	36.53	24.51	0.5	0.3	0	0.2	0.2
10	24.88	36.55	24.57	0.3	0.3	1	0.1	0.2
20	24.43	36.53	24.69	0.2	0.3	1	0.1	0.0
30	23.27	36.55	25.05	0.2	0.2	2	0.1	0.1
50	20.94	36.50	25.67	0.1	0.0	5	0.0	0.4
75	18.78	36.37	26.14	0.2	0.1	9	0.2	0.1
100	17.24	36.30	26.47	0.3	0.2	14	0.8	0.1
150	14.65	35.90	26.76	0.5	0.4	19	0.0	0.4
200	12.81	35.65	26.95	0.7	0.6	19	0.3	0.1
250	11.68	35.58	27.12	0.8	0.7	25	0.8	0.2
300	10.68	35.40	27.16	1.0	0.7	28	0.9	0.3
400	8.89	35.07	27.21	1.6	1.0	29	0.9	0.2
500	7.48	34.92	27.31	2.4	2.3	32	0.9	0.5
600	6.49	34.89	27.42	2.4	2.4	27	0.0	1.0
800	5.18	34.93	27.62	2.0	1.9	7	0.2	0.3
1000	4.57	35.03	27.77	2.0	2.3	10	0.1	0.1
1200	4.25	35.05	27.82	2.0	1.8	17	0.1	0.1



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