BILOXI BAY HYDROLOGY AND SELECTED CHEMISTRY WITH DATA APPENDIX

Charles K. Eleuterius, Ph.D.
and
G. Alan Criss

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With

Data Appendix

Charles K. Eleuterius, Ph.D. and G. Alan Criss

Gulf Coast Research Laboratory
University of Southern Mississippi

INTRODUCTION

Knowledge of the hydrodynamics and physical and chemical properties of Biloxi Bay is a prerequisite for its judicious management which will allow reasonable use of the Bay's resources while preventing environmental degradation. The concentration and destination of pollutants entering an estuary, e.g. Biloxi Bay, are determined primarily by advection and mixing by currents and by thermohaline diffusive processes. The lateral transport of the eggs and planktonic forms of marine species is largely dependent upon the currents. The timing, route, and destination of migrating adults and juveniles of some species are inextricably linked to the physical and chemical properties and flow of ambient waters. The recovery, compilation, and reassessment of selected environmental data collected as part of a National Aeronautics and Space Administration sponsored, multi-disciplinary study of Biloxi Bay in 1973 was undertaken so that the data base might serve as a foundation for planning further research on this estuarine system.

AREA DESCRIPTION

Biloxi Bay, Mississippi (Figure 1) is an estuary in the north-central Gulf of Mexico which adjoins a coastal lagoon, i.e. Mississippi Sound. Geologically, it is an incompletely sediment-filled drowned river valley consisting of both an outer bay and a

back bay. The land margins of the outer bay consists of the shorelines of the Biloxi peninsula, Ocean Springs, and Deer Island - a bar-built barrier island. The back bay lies north of and parallel to the Biloxi peninsula. The Bay has two seaward boundaries.

The east seaward boundary, as defined in 1973, lies along a line projected at a heading of 30° from the "Little Deer" islet to the mainland. Of this marshy islet, which consisted of about two acres in 1977, only a shoal remains today (1994). The west seaward boundary of the Bay lies along a line projected north from the west tip of Deer Island to the mainland. The most westerly point along the perimeter of Big Lake is the upstream limit of the Bay's back bay.

With reference to these boundaries at mean low water (MLW) (Eleuterius 1973), Biloxi Bay is approximately 13.5 mi (21.7 km) in length, has a surface area of 16.52 mi^2 (42.79 km^2); an average depth, including channels, of 4.31 ft (1.31 m); and a water volume of 73,517,612 yds^3 (56,208,247 m^3). It receives freshwater via direct runoff and the outflow of two rivers, a number of bayous and many tidal sloughs. The Biloxi River and Tchoutacabouffa River, with drainage basins of 271 mi^2 and 242 mi^2 (701.9 km^2 and 626.8 km^2), respectively, join north of Big Lake. The discharge of their combined flows enters the bay in the northeast region of Big Lake. The Tchoutacabouffa River has an average annual discharge of 440.7 ft^3s^{-1} (12.48 m^3s^{-1}) with record extremes of 2.52 ft^3s^{-1} (0.07 m^3s^{-1}) and 21,203 ft^3s^{-1} (600.65 m^3s^{-1}), while the Biloxi River has an average annual flow of 493.5 ft^3s^{-1} (13.98 m^3s^{-1}) with record extremes of 2.82 ft^3s^{-1} (0.08 m^3s^{-1}) and 23,744 ft^3s^{-1} (672.63 m^3s^{-1}). Among the more substantial bayous which empty directly into Biloxi Bay are: Poito, Fort, Week's, Grand, Auguste, Keegan, La Porte, Bernard, Brasher, Biglin, Ravine Canne, Ditch, Davis, St. Martin, and Brodie. The major bayous among these are Bernard, Fort, and Davis with drainage areas of 76 mi^2 (196.8 km^2); 45 mi^2 (116.5 km^2);

and 14.7 mi^2 (38.1 km^2), respectively.

In general, the Bay narrows along its length from its east seaward boundary to its headwaters, but reaches its narrowest dimension at Popp's Ferry. Beyond this point, the bay widens abruptly into a relatively large, very shallow basin named Big Lake. It also changes from a largely open expanse of water at its seaward region to limited-width sinuous courses which wind upstream through many marsh islands, islets and marshes bordering the uplands. The two navigation channels which enter the Bay from seaward, one from the west and one from the east, merge into one channel in the outer Bay. This channel then continues up the back bay to Big Lake where it again splits into two channels. One of these two channels extends to the Harrison County Industrial Seaway and Bernard Bayou while the other turns northward and reaches just inside the mouth of the Biloxi River. In 1973 these channels had a design depth of 12 feet. Relatively deep holes, i.e., 35-65 ft (10.67-19.82 m) of a natural origin are located in the outer Bay between the west end of Deer Island and the mainland and in the middle and upper regions of the back bay.

The Bay is subject to a variable climatic system (Eleuterius and Beaugez 1979). The subtropical, anticyclonic Bermuda High affects the circulation and certain properties of the Bay waters. As this atmospheric high intensifies during the spring, its boundaries extend into the Gulf of Mexico. This intrusion into the Gulf results in a shift in the wind direction from northerly to the southeast and south. On average, the wind speeds are much less than those of the winter and fall.

The Bermuda High diminishes in strength in early fall and its boundary of influence retreats from the Gulf of Mexico. Simultaneously with this southeastward withdrawal of the Bermuda High is a southward advance of the continental pressure systems over the Gulf. With this southward movement of the continental

systems, the predominant winds become northerlies.

Westerly systems during winter influence the study area as cold fronts from the northwest move southeastward over the Gulf. When these cold fronts oppose strong maritime tropical air moving in the opposite direction, the fronts become almost stationary. Under these conditions, Biloxi Bay becomes subject to cyclogenesis resulting in low cloud ceilings and precipitation.

Because of the high heat-storage capacity of water and the size and close proximity of the Gulf of Mexico, the Gulf greatly influences the predominant year-round maritime subtropical climate of Biloxi Bay. Southerly winds from over the Gulf water during summer have an ameliorating effect on the heat. Analysis of thirty years of records by Eleuterius and Beaugez (1979) revealed that there is an average of only 52 days per year when air temperatures exceed 90°F. Although temperatures infrequently exceed 100°F, the average summer high temperature is 88.9°F. Summer southerly winds from over the relatively cooler marine waters effectively reduce the air temperature for a summer average of 81.5°F.

The winters are generally mild with an average of only 11 days per year when temperatures fall below 32°F. There is no record of sub-zero temperatures having ever occurred. The average temperature of the winter months is 54.5°F with an average minimum temperature of 46.3°F. The average dates of the first and last freezes, from recorded data, are 12 December and 21 February, respectively. The annual average temperature for the year is 68.2°F.

The area has an average of 58.58 in (148.68 cm) of rain per year. The wettest month is July with 7.33 in (18.60 cm) of rain due primarily to the increased frequency of thundershowers. September and March are next in the amounts of precipitation with 6.5 in (16.5 cm) and 6.1 in (15.48 cm), respectively. The driest

months are October and November when dry continental air masses push southward over the area resulting in clear skies and cool nights. Measurable snow has fallen only nine times in the past 97 years.

Tides are one of the two main forces that drive the circulation in Biloxi Bay. The tides are primarily diurnal, i.e. usually only one high-water and one low-water per day. The three principal diurnal components of the tide are the K_1, O_1, and P_1 components with periods of 23.93 hrs, 25.82 hrs, and 24.07 hrs, respectively. The semi-diurnal components become noticeable in the tidal records during certain periods of the month. The important semi-diurnal components for Biloxi Bay are M_2 and S_2 with periods of 12.42 hrs and 12.00 hrs, respectively. The average diurnal tidal range in Biloxi Bay is 1.8 ft (0.55 m). The Bay tides are modified by the bathymetry and geometry of the basin and by river outflow, and winds.

METHODS AND MATERIALS

Fourteen stations were established (Figure 2) throughout the basin at sites from which the aggregate of data would yield a reliable description of the Bay with regard to the hydrology and the waters' physical and chemical properties. Measurements were made near the surface and, thereafter, at five-foot (1.52 m) intervals from the surface through the water column. If the depth of the water-column was greater than a multiple of five feet by more than one-half the sampling interval, i.e. 2.5 ft (0.76 m), another set of measurements was made near the bottom. Measurements made and presented in Appendix A of this report were: air temperature (°C), water temperature (°C), salinity (ppt), dissolved oxygen (ppm), turbidity (JTU), pH, nitrate (μg-at N l^{-1}), nitrite (μg-at N l^{-1}), orthophosphate (μg-at P l^{-1}), total phosphate (μg-at P l^{-1}), chlorosity (ppt), suspended solids (mg m^{-3}), calcium (ppm), iron (ppm), and chlorosity (mg m^{-3}). Not all measurements were made

at each station during each cruise. Measurements taken onboard the vessel were entered directly on coding forms. Concentrations of chemical properties determined later in the laboratory were added to the coding forms prior to encoding the data for computer processing. Adherence to Central Standard Time throughout the study makes adjustments for Daylight-Saving Time unnecessary.

Water temperature was measured by either a Yellow Stone Instruments® Model 54 temperature-compensated, dissolved-oxygen meter or Martek Model II. Near-surface temperatures were verified using readings made via a GM® bucket thermometer. Salinity was measured using either a Goldberg® temperature-compensated refractometer or, in situ, by a Martek® Model II. Dissolved oxygen levels were measured in situ by either a YSI dissolved-oxygen meter or by the Martek II.

Direct current measurements were made employing a TSK® Model E-1, vane-type current meter equipped with a potentiometric direction indicator. The directional accuracy of the instrument was stated at ± 10°; however, after some minor adjustments to the instrument, the author believes the accuracy was actually better than this. According to the manufacturer, the meter, with a threshold speed of 8 cm s^{-1}, has an accuracy of ± 2%. Before taking current measurements the shallow-draft vessel was oriented either into the wind or sea or between the two, depending on their relative effects on the lie of the vessel. The vessel was then anchored fore and aft and the lines were pulled taut. The current meter was lowered over the side of the vessel using a boom to remove it from the immediate area affected by the vessel. Current measurements were taken at the same depths as those used for obtaining measurements of water properties.

Concentrations of the select chemical properties of the Bay waters on this project were ascertained by Lytle (1974) using established methods, some of which he modified to obtain greater accuracy. Turbidity was determined using a Hach® turbidimeter

Model 2100A. Nitrite and nitrate concentrations were obtained using modified methods of Morris and Riley (1968). Orthophosphate levels were found according to the method of Murphey and Riley (1962). Total phosphate concentrations were ascertained via method described by Hansen and Robinson (1953). Chlorosity was determined according to the method of Strickland and Parsons (1968). The total amount of suspended solids was found according to the method of Banse et al (1963). The concentration of calcium was obtained following the method described in the Perkin-Elmer® atomic absorption spectrophotometric handbook (1970). The concentration of lead in Bay waters was found using the method of Perkin-Elmer® and Sachdev and West (1970). The level of iron was ascertained by a modified Billings and Harriss (1965) method. Chlorophyll concentrations were based on 500 ml water samples filtered through a Milipore AA 0.8μ acetate filter. Chlorophyll determinations were made by the NASA Earth Resources Laboratory, Stennis Space Center, Mississippi.

To acquire tidal data, six Leopold-Stevens® water elevation recorders were placed at sites around the perimeter of Biloxi Bay. Two of these gauging stations were abandoned after the abnormally high tide of 24 March 1973 swept away the stilling well, gauge housing, instrument, and the pier to which one gauge was attached. The second gauge was inundated. Also, a gauge maintained by the U.S. Army Corps of Engineers, Mobile District was utilized. This gauge was located on the old Biloxi-Ocean Springs U.S. 90 War Memorial Highway Bridge. Analog records from these tide stations were once archived at the Gulf Coast Research Laboratory.

Wind data, i.e. direction and speed, from Keesler Air Force Base was used in this study. Although the Keesler AFB analog wind records were archived at the GCRL, restrictions placed upon the dissemination these records by the U.S. Air Force make them generally unavailable. Because of the height of the anemometer and location of the site, the author has since determined that the wind

data from the Keesler gauge were not representative of the winds over the Bay.

Statistical and empirical analyses of the data collected as part of this study were performed by a team of scientists from the Gulf Coast Research Laboratory and the NASA Earth Resources Laboratory. More detailed analyses and interpretations of these data are to be found in Eleuterius (1973) and Christmas (1974). Papers on various aspects of the original study have been published in various journals. More recently, other papers have been prepared and submitted for publication.

RESULTS

Results of the analyses of the data indicated the Bay to be highly variable and complex with regard to both its water properties and hydrodynamics. The thermal structure of Bay waters undergoes a seasonal reversal in the horizontal gradient with water temperatures normally decreasing seaward during the summer and increasing seaward during the winter. The water column approaches homogeneity with regard to temperature during much of the year with the maximum difference in temperature recorded for any station being 5.6°C. This difference occurred at mid-winter. The highest temperature observed for near-surface waters was 36.0°C on 3 July 1973 at the mouth of the Biloxi River. This site was prone to substantially higher temperatures than others because of the location of the discharge of cooling waters of elevated temperatures by the Jackson Watson Power Plant into Big Lake. Surface temperatures at this station ranged between 9.0°C and 36.0°C. Because of this discharge, water temperatures for Big Lake as a whole were consistently higher than other regions of the Bay. The resulting plume of higher temperature water was detectable by infrared remote-sensing more than halfway down the back bay. The lowest temperature, 5.9°C, was recorded at the west seaward entrance to the Bay. Water-column temperature inversions were

observed to occur throughout the Bay on several occasions. Solar heating, tidal influx of Sound waters, and the inflow of warmer river waters produced complex, water-column temperature structures in different regions of the basin.

Salinity during the period of this project was unusually low due to the abnormally wet winter and spring. Freshwater entering the Bay via river discharge and direct runoff resulted in very low salinities occurring in the backbay region of the basin during January and February. However, salinities below 10 ppt in the seaward region of the Bay were not observed until March when the river flows increased. During March, the most seaward station at the east end of Biloxi Bay reached a minimum salinity of 1.9 ppt and the water column was almost isohaline. This freshwater epoch persisted until late June. With only one exception, salinity cross sections of the water column along the length of the Bay, constructed for each sampling period, showed the intrusion of more saline waters, albeit the salinity-difference, at times, was almost negligible. For the exception, which occurred on 3 July 1973, the salinity cross section showed that, although the salinities of the Bay ranged between 29.0 ppt at the most seaward stations to 0.0 ppt at the mouth of the Biloxi River, the water column was homogeneous. Vertically, isohaline conditions occur with regularity in the shallower regions of the Bay. The maximum water-column difference observed at any station was 17.2 ppt.

Variation in the bathymetry of Biloxi Bay is quite abrupt in some regions; having a number of deep, naturally-formed holes and a few man-made depressions. These holes are filled with higher salinity water during periods when high salinity waters from the outer Bay are advected upstream. With the ebbing of the tide or with a substantial increase in river outflow, the denser, higher salinity waters retreat from the Bay, leaving behind higher salinity water in these deep pockets. Based on the data, mixing of these higher salinity waters with the lighter, lower-salinity

waters above the rim of the holes is apparently a relatively slow process. Of particular interest, was finding on several occasions that the water in these holes was less dense according to (σ_t), using Knudsen's relationship of salinity to chlorinity, than the water lying just above the sill depth of the hole. The measurements of temperature and salinity were verified by other instruments. Its greater density perhaps can be accounted for by the presence of other dissolved elements or suspended matter. Obviously, the effect of pressure on density at these relatively shallow depths could not account for the difference in density. Whatever the cause, this question has not been satisfactorily answered.

There are several other observations which should be noted. During this study, Biloxi Bay fluctuated between a partially-mixed and well-mixed estuary. At times, both classifications applied simultaneously, but in different regions of the Bay. During several cruises, a well-defined interface, i.e. an abrupt change in salinity or temperature or both, was evident in the water column. However, normally no strong vertical gradient was observed. Although tide waves entering and propagating up the Bay are affected by both bottom and lateral friction, comparison of tidal records from different sites showed that the tidal range increased toward the headwaters due probably to the narrowing of the waterway. Bi-directional flow was observed on at least two occasions. Low-salinity surface waters flowed seaward as higher-salinity, subsurface waters flowed toward the Bay's headwaters.

Current speeds ranged from negligible to speeds of 84.8 cm s^{-1}. Strong currents were found in close proximity, e.g. within 2.0 ft (0.60 m), to the bottom. A few such near-bottom current speed measurements were 69.8 cm s^{-1}, 42.5 cm s^{-1}, and 36.0 cm s^{-1}. Water circulation responds quickly to the winds. When a strong, steady wind, directed toward the mainland and in phase with a flood tide, water elevations are driven above the high-water prescribed by the

astronomical tidal forces. The time of high water is also advanced. When such a mainland-directed wind is substantially out-of-phase with the tide, i.e. the wind opposes an ebbing tide, the water never attains the low-water elevation prescribed by the astronomical forces and the time of low water is delayed. When a strong, steady wind blows seaward over the Bay while opposing a flood tide, the water is prevented from attaining the elevation of high-water as prescribed by the astronomical forces and the time of high water is delayed. Winds of sufficient magnitude opposing tides may completely negate any tidal contribution. When a strong, sustained wind is in phase with an ebbing tide, the time of low-water is advanced and the water elevations are driven below that prescribed by the astronomical forces.

Current speeds reached their maximum approximately midway between low and high waters during flood and ebb. During strong, sustained winds, surface currents in the open regions of the Bay became aligned with the winds, but opposite in direction to the source of the winds. Due to opposing tide and wind forces, subsurface current speeds sometime were greater than those at the surface.

Spatial and temporal variations with regard to the chemical data contained in Appendix A is discussed by Lytle (1974). He attributed the seasonal changes in the level of dissolved oxygen, i.e. high in winter and low in summer, primarily to the ability of water to retain the gas in a dissolved state as a function of its temperature. The almost trendless variations in nitrite, nitrate, orthophosphate and total phosphate, Lytle reasoned was due to the year-round influxes of these components via direct runoff and the discharge from the then many sewage treatment facilities in the area which emptied either directly into the Bay or into waters that eventually found their way into the Bay.

SUMMARY

The estuarine Biloxi Bay is highly variable with regard to water properties and complex with regard to its hydrodynamics. The Bay during the study period, an abnormally wet period, fluctuated between a partially-mixed and well-mixed estuary. Waters in the shallower areas were predominantly vertically homogeneous with the deeper areas, including the channels, frequently showing some degree of stratification. Because of the large number of sources of nutrients and other chemicals entering the Bay, it is difficult to discern their natural cycles. The converging geometry of the Bay greatly influences the tides by amplifying the tidal range as the wave propagates upstream. Circulation in the Bay responds quickly to strong, sustained winds.

ACKNOWLEDGEMENTS

We wish to thank Ms. Angelia Bone for her many contributions toward the production of this report. We also wish to express our appreciation to the U.S. Department of the Interior, Mineral Management Service for the financial support which helped make this effort a reality. For recognizing the need for this effort and making it possible, we wish to thank Dr. Murray Brown. His sincere interest in this work and his invaluable assistance throughout the project made this labor intensive effort almost enjoyable.

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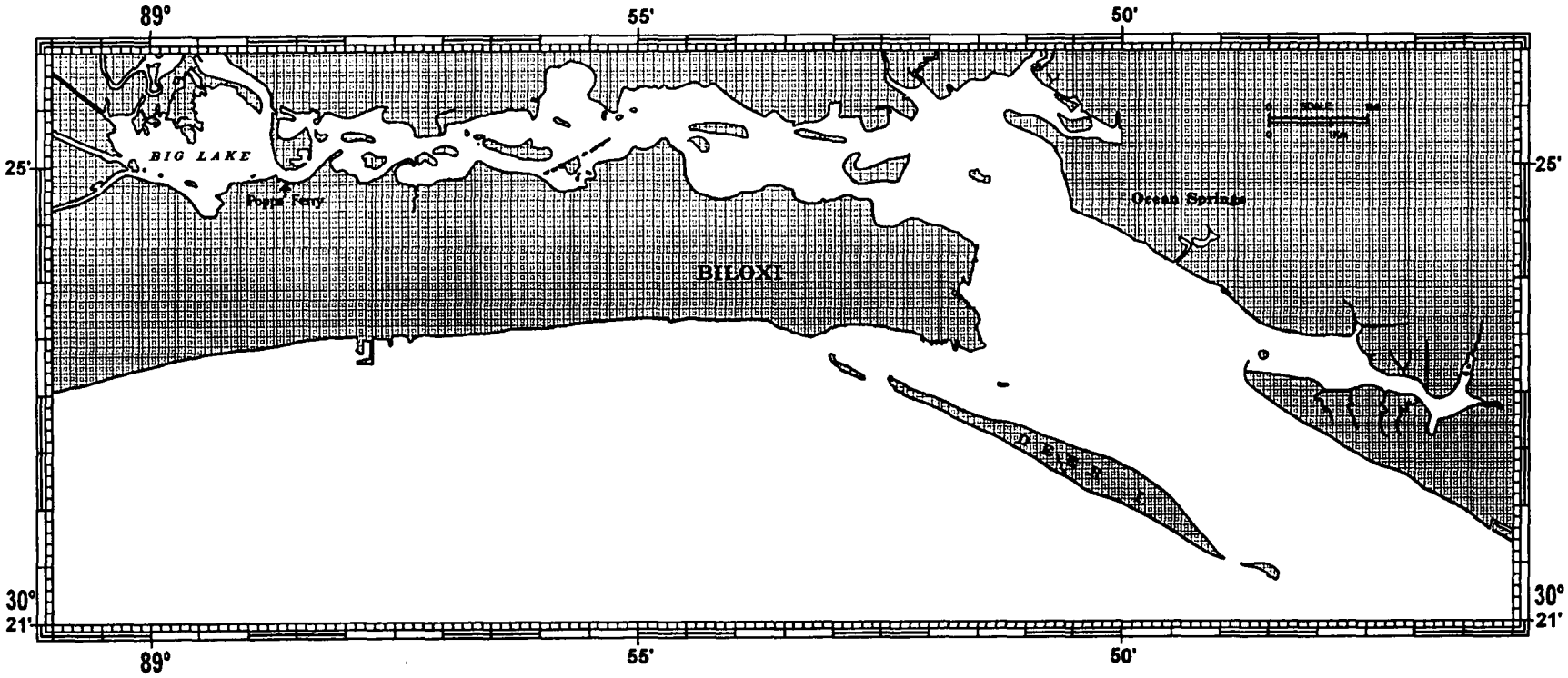

Figure 1. Study Area: Biloxi Bay, Mississippi

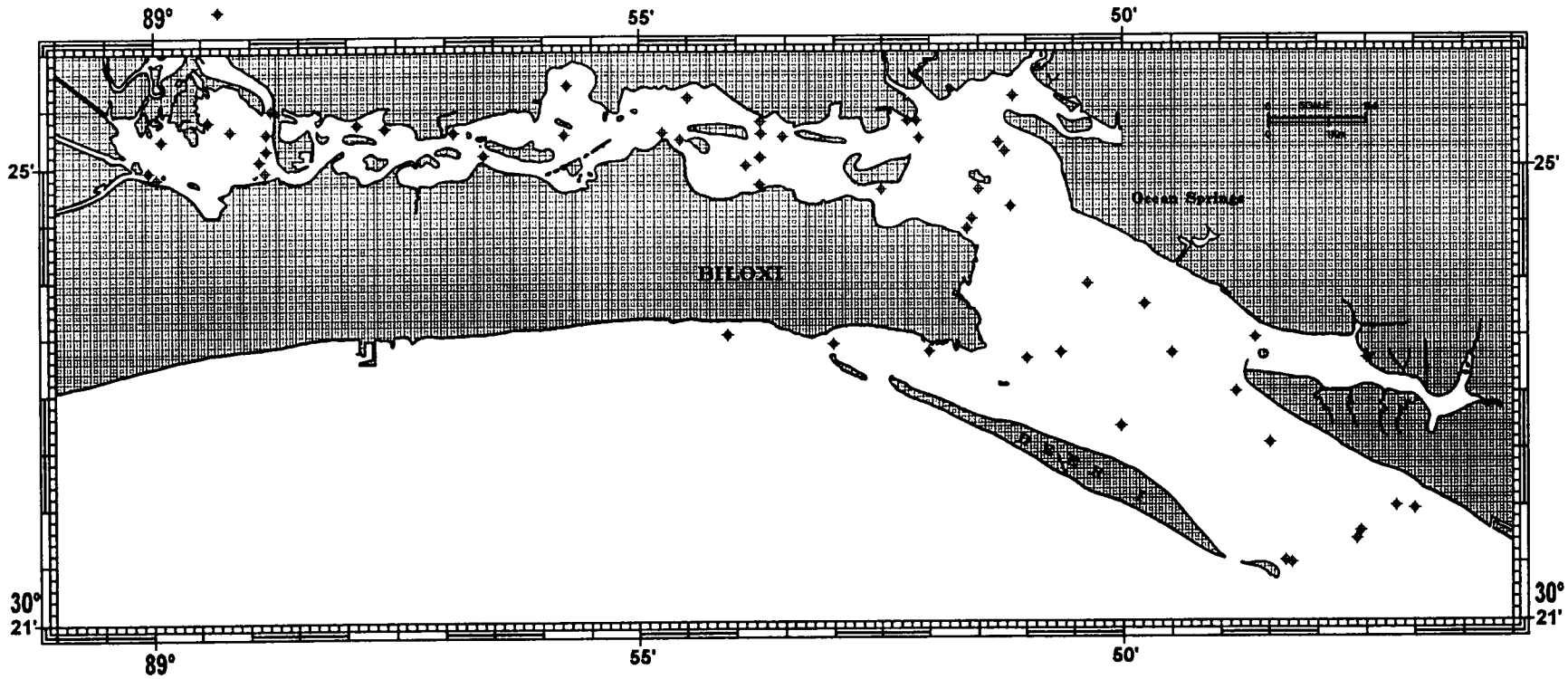

Figure 2. Station Locations: Biloxi Bay, Mississippi

APPENDIX A

Data Tables

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.39′	88°53.75′	8/ 8/72	8:58	16.0	30.0	1.5	0.	31.3	17.4		10	7.2	2.864	.000	1.41	5.65	9.64		186.	.000	
							5.	30.6	18.1												
							10.	30.7	18.5												
							15.	30.3	18.8			7.2	16.042	.252	2.75	6.40	9.73		189.	.000	
30°25.08′	88°53.75′	8/ 8/72	9:32	14.0	30.0	2.0	0.	31.0	17.8		9	7.2	3.134	.000	2.45	6.29	9.63		188.	.000	
							5.	31.0	18.1												
							10.	30.7	18.7			7.3	23.224	.000	2.94	6.11	10.16		197.	.000	
30°24.84′	88°53.75′	8/ 8/72	9:48	13.0	32.0	2.0	0.	31.0	17.8		9	7.3	10.259	.000	2.45	5.19	9.70		188.	.000	
							5.	30.9	17.8												
							10.	30.8	18.1			7.1	71.026	.000	2.45	6.98	10.38		192.	.000	
30°24.45′	88°51.61′	8/ 8/72	10:35	8.8	32.4	1.5	0.	30.9	21.9		10	7.2	3.833	.000	1.90	6.35	11.33		220.	.000	
							5.	30.4	20.9			7.3	50.169	.000	2.45	6.29	12.49		228.	.000	
30°25.13′	88°51.22′	8/ 8/72	10:50	7.0		2.0	0.	31.1	19.7		10	7.5	2.864	.000	1.78	6.23	10.54		202.	.000	
							5.	31.0	21.1			7.4	28.808	.531	2.39	5.37	11.73		217.	.000	
30°23.44′	88°53.00′	8/ 8/72	8:57	12.0	30.5	1.5	0.	30.1	26.1		14	7.6	7.621	.000	1.22	4.96	14.16		290.	.000	
							12.	29.6	27.2			7.8	.699	.000	1.41	5.25	14.13		300.	.000	
30°21.50′	88°48.27′	8/ 8/72	10:00	3.5	30.8	1.4	0.	30.2	28.8		13	7.9	2.819	.000	1.90	5.65	13.74		243.	.000	
30°21.78′	88°47.56′	8/ 8/72	10:21	14.0	31.2	1.5	0.	30.3	26.6		17	7.9	1.172	.000	.67	4.90	14.63		255.	.000	
							14.	30.0	27.7			7.9	2.052	.000	1.65	6.52	14.50		253.	.000	
30°22.00′	88°47.20′	8/ 8/72	10:45	3.0		1.2	0.	30.5	24.9		23	7.8	.676	.000	1.16	6.75	12.82		270.	.000	
30°23.35′	88°49.50′	8/ 8/72	8:02	10.0	30.0	1.5	0.	30.4	25.6												
							5.	30.5	25.5												
							10.	30.7	25.5												
30°23.96′	88°50.37′	8/ 8/72	8:16	10.0	29.2	1.5	0.	30.3	23.0												
							5.	30.7	24.2												
							10.	30.7	25.1												
30°24.65′	88°51.16′	8/ 8/72	8:28	8.0	30.2	1.5	0.	30.5	22.4												
							5.	30.3	22.9												
							10.	30.5	23.2												
30°25.26′	88°53.52′	8/ 8/72	8:45	18.0	31.2	1.5	0.	30.8	18.4												
							5.	30.6	18.5												
							10.	30.5	18.9												
30°21.78′	88°47.56′	8/ 8/72	7:50	16.0	29.0	1.4	0.	29.5	26.0												
							15.	29.9	27.7												
30°22.56′	88°48.50′	8/ 8/72	8:10	11.0	29.5	1.5	0.	30.0	23.8												
							10.	29.2	27.7												
30°23.36′	88°50.64′	8/ 8/72	8:22	12.0	30.0	1.8	0.	29.9	27.7												
							10.	29.8	24.9												
30°23.37′	88°52.00′	8/ 8/72	8:34	12.0	30.5	1.8	0.	29.8	27.2												
							10.	29.2	26.6												
30°23.44′	88°53.00′	8/ 8/72	8:44	12.0	30.5	1.5	0.	30.0	24.9												
							10.	30.0	27.2												
30°23.52′	88°54.08′	8/ 8/72	8:51	4.0	30.5	1.2	0.	30.0	26.1												
30°25.24′	88°59.90′	8/ 9/72	10:55	2.0	32.7	1.2	0.	33.9	12.8	8.10	12	6.4	1.578	.000	1.84	3.58	6.71		136.	.000	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.91′	88°59.95′	8/ 9/72	11:22	2.0	32.8	1.3	0.	34.6	12.9	8.90	10	6.7	1.127	.000	1.84	2.77	6.80		141.	.000	
30°24.96′	88°58.83′	8/ 9/72	11:51	2.0	33.2	1.6	0.	32.0	14.7	8.20	7	6.8	1.172	.000	2.33	3.92	7.35		152.	.000	
30°25.15′	88°58.82′	8/ 9/72	12:15	16.0	32.2	2.0	0.	31.7	15.1	8.00	8	6.9	2.277	.000	2.33	3.52	8.08		163.	.000	
							5.	31.4	15.4	8.00											
							10.	31.1	15.6	4.80											
							16.	31.0	16.0	4.80		7.1	1.218	.000	2.39	4.61	8.54		170.	.000	
30°25.50′	88°58.77′	8/ 9/72	12:52	8.0	31.5	1.8	0.	31.9	15.2	7.90	8	7.1	.451	.000	2.14	4.44	7.99		161.	.000	
							8.	31.6	15.4	6.50		7.2	1.015	.000	2.39	3.98	8.27		163.	.000	
30°25.30′	88°54.75′	8/ 9/72	9:58	6.0	31.2	1.5	0.	30.5	16.8												
30°25.28′	88°55.77′	8/ 9/72	10:05	3.0	32.0	1.8	0.	30.7	16.5												
30°25.30′	88°56.90′	8/ 9/72	10:16	10.0	32.2	1.8	0.	30.1	15.6												
							5.	30.9	16.1												
							10.	30.6	15.7												
30°25.37′	88°57.88′	8/ 9/72	10:30	3.0	33.1	1.5	0.	31.4	15.7												
30°25.30′	88°58.82′	8/ 9/72	10:41	3.0	32.5	1.0	0.	31.3	15.4												
30°25.40′	88°59.42′	8/ 9/72	10:48	2.0	32.5	1.8	0.	32.0	14.2												
30°24.91′	88°59.95′	8/22/72	11:00	15.8	36.8	2.2	0.	32.9	13.7	7.50	4	7.7	.881	.000	2.02	3.35	6.94		147.	.000	
							5.	31.1	15.0												
							10.	30.9	16.3												
							15.	30.9	16.5	7.80		7.5	.424	.000	1.90	4.27	8.68		173.	.000	
30°24.96′	88°58.83′	8/22/72	13:05	10.2	25.0	2.1	0.	31.4	14.8	8.70	5	7.4	1.220	.000	2.33	5.02	7.52		153.	.000	
							5.	30.7	17.2												
							10.	30.6	17.1	7.00		7.6	.441	.000	1.65	4.44	8.03		165.	.000	
30°25.15′	88°58.82′	8/22/72	13:55	17.0		2.2	0.	30.9	15.2	7.50	5	7.6	.983	.000	1.71	3.63	7.56		158.	.000	
							5.	30.9	15.2												
							10.	31.0	15.7												
							17.	30.1	15.9	6.10		7.7	1.485	.000	1.90	4.61	8.02		165.	.000	
30°25.50′	88°58.77′	8/22/72	14:45	15.0			0.	30.9	14.5	7.50	7	7.4	1.198	.384	2.02	5.54	7.01		151.	.000	
							5.	30.8	14.8												
							10.	30.8	15.2												
							15.	30.8	15.2	5.70		7.6	.661	.000	2.39	5.94	7.82		163.	.000	
30°25.39′	88°53.75′	8/22/72	9:45	11.0	32.0	1.9	0.	30.8	18.0		6	7.7	9.458	.000	1.35	3.23	9.19	14.00	182.	.000	
							5.	30.8	20.2												
							8.	30.6	21.9			7.9	.492	.000	1.47	3.81	9.61		189.	.000	
30°25.08′	88°53.75′	8/22/72	9:15	5.0	32.0	2.3	0.	30.4	19.3		7	7.6	1.288	.000	1.84	5.19	10.08	18.00	197.	.000	
							5.	29.9	19.6			8.1	.288	.000	2.20	4.84	10.57		204.	.000	
30°24.84′	88°53.75′	8/22/72	8:45	6.0	31.5	1.8	0.	30.3	19.9		6	7.9	14.102	.411	1.59	3.98	10.06	18.20	197.	.000	
							6.	29.9	20.5			8.2	1.508	.000	1.35	4.73	10.17		199.	.000	
30°24.45′	88°51.61′	8/22/72	10:43	11.0	33.0	1.5	0.	32.0	21.9		6	7.8	.305	.000	1.16	4.15	12.09	13.80	212.	.000	
							5.	30.8	23.0												
							8.	30.6	23.0			8.1	.271	.000	1.90	4.61	11.20		223.	.000	
30°25.13′	88°51.22′	8/22/72	10:17	9.0	35.0	1.9	0.	31.6	21.9		7	7.8	.814	.000	.85	3.81	11.91	12.00	216.	.000	
							9.	30.8	23.4			8.1	7.591	.521	1.84	5.42	12.50		225.	.000	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
30°23.44′	88°53.00′	8/22/72	11:15	18.7	29.0	1.7	0.	31.8	28.1	9.40	6	7.7	.678	.000	.80	2.54	14.33	30.80	239.	.000	
							5.	31.0	28.2												
							10.	31.0	28.1												
							15.	31.2	28.0			8.1	.390	.000	1.90	2.31	14.54		239.	.000	
30°21.50′	88°48.27′	8/22/72	8:40	4.9	28.9	1.3	0.	29.1	27.5	6.40	10	7.8	1.017	.000	1.65	4.21	14.22	28.20	237.	.000	
30°21.78′	88°47.56′	8/22/72	9:15	13.5	28.6	2.1	0.	30.8	29.0	7.60	4	8.1	.729	.000	.49	2.60	15.09	15.40	246.	.000	
							5.	30.8	29.2												
							10.	30.5	29.9			8.0	.695	.000	.67	2.31	15.61		249.	.000	
30°22.00′	88°47.20′	8/22/72	10:50	8.1	31.8	1.6	0.	31.9	28.6	7.70	6	8.0	.797	.000	.61	2.48	14.79	17.00	249.	.000	
							5.	30.9	29.0			8.2	.373	.000	.67	2.37	14.98		249.	.000	
30°25.24′	88°59.90′	9/ 5/72	10:48	5.3	30.0	1.5	0.	31.1	13.2	7.00	5	7.9	9.497	.441	.67	1.79	6.87	14.60	160.	.000	
							5.	30.3	13.8	6.60		8.0	1.263	.028	1.10	4.10	7.50		148.	.000	
30°24.91′	88°59.95′	9/ 5/72	10:33	3.8	32.1	1.1	0.	33.6	12.6	7.90	6	8.0	9.092	.221	.73	2.08	6.70	19.80	142.	.000	
30°24.96′	88°58.83′	9/ 5/72	12:05	3.8	32.1		0.	32.0	12.6	7.70	6	7.9	2.164	.193	1.29	3.06	7.14	20.60	148.	.000	
30°25.15′	88°58.82′	9/ 5/72	11:37	16.0	32.3	1.5	0.	33.0	12.5	8.40	4	7.9	8.644	.359	1.47	2.13	6.73	19.90	144.	.000	
							5.	30.4	16.4												
							10.	30.4	17.5												
							15.	30.6	14.1	3.90		7.8	9.172	.248	2.08	6.11	9.67		192.	.000	
30°25.50′	88°58.77′	9/ 5/72	12:15	12.0	32.6	1.8	0.	32.2	14.4	11.00	5	8.0	7.122	.359	1.10	3.46	7.74	21.95	162.	.000	
							5.	30.6	15.4												
							10.	30.0	17.3			7.8	7.700	.552	1.65	4.33	8.64		174.	.000	
30°25.39′	88°53.75′	9/ 5/72	9:40	26.0	30.5	2.5	0.	31.1	20.0	7.80	6	7.9	7.016	.359	1.35	3.75	10.88	25.80	208.	.000	
							5.	29.3	18.0												
							10.	29.1	19.0												
							15.	28.9	20.0												
							20.	28.7	21.0												
							25.	28.7	20.5	5.60		7.6	8.447	2.014	1.96	4.73	11.94		221.	.000	
30°25.08′	88°53.75′	9/ 5/72	10:45	4.9	34.5	2.5	0.	30.9	21.0	9.10	6	7.9	16.757	.276	1.41	4.04	10.72	22.35	206.	.000	
							4.	34.0	21.0	6.70		8.0	7.845	.800	1.59	5.02	10.99		209.	.000	
30°24.84′	88°53.75′	9/ 5/72	11:30	6.8	34.0	2.0	0.	33.0	19.0	9.80	7	7.9	20.995	1.490	15.55	24.86	9.32	29.25	187.	.000	
							5.	29.5	20.0	3.50		7.6	8.700	.745	3.67	5.83	11.03		208.	.000	
30°24.45′	88°51.61′	9/ 5/72	12:40	4.0	32.0	1.8	0.	29.9	28.0	9.30	8	8.1	17.793	.276	1.65	4.79	11.24	26.65	213.	.000	
30°25.13′	88°51.22′	9/ 5/72	11:58	13.0	35.0	3.1	0.	31.0	20.1	9.00	6	8.0	2.564	.083	1.04	3.63	11.64	26.05	216.		
							5.	30.0	23.5												
							10.	29.0	24.0	6.50		7.8	8.254	.414	1.53	4.33	13.17		231.		
30°23.44′	88°53.00′	9/ 5/72	9:30	21.0	28.5	2.5	0.	29.5	27.0	6.60	7	8.1	1.374	.579	1.35	3.40	15.02	25.80	350.		
							5.	28.9	27.3												
							10.	29.0	27.2												
							15.	28.8	27.3												
							20.	28.9	27.4	9.70		8.1	3.452	1.931	1.04	3.81	15.20		350.		
30°21.50′	88°48.27′	9/ 5/72	10:29	5.5	30.5	2.5	0.	29.7	27.3	7.90	6	8.2	3.522	.276	.55	3.75	15.13	29.55	370.		
							5.	28.6	27.7	7.30		8.2	2.132	.248	1.16	4.62	15.45		370.		

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°21.78′	88°47.56′	9/ 5/72	10:58	16.1	30.5	2.0	0.	30.6	28.1	8.00	5	8.1	2.446	.497	1.29	3.87	15.76	31.85	390.		
							5.	28.9	28.9												
							10.	28.9	29.2												
							15.	29.0	29.1	5.80		8.2	2.427	2.786	.73	4.67	16.45		390.		
30°22.00′	88°47.20′	9/ 5/72	11:27	7.0	31.5	2.0	0.	30.3	27.8	8.10	6	8.3	3.209	.828	1.16	4.10	15.61	24.05	350.		
							5.	29.2	28.2	5.90		8.2	3.700	2.069	1.41	4.67	15.89		350.		
30°25.30′	88°54.75′	9/ 5/72	8:45	9.5	28.3	2.5	0.	29.3	16.8												
							5.	29.6	18.8												
							10.	29.2	18.8												
30°25.28′	88°55.77′	9/ 5/72	9:04	4.0	28.3	2.5	0.	29.9	16.1												
							5.	29.7	17.7												
30°25.30′	88°56.90′	9/ 5/72	9:14	14.4	28.9	2.5	0.	29.9	16.1												
							5.	29.9	17.7												
							10.	29.9	18.4												
							15.	29.9	18.4												
30°25.37′	88°57.88′	9/ 5/72	9:24	4.0	29.2	2.5	0.	30.5	14.6												
							5.	30.4	14.6												
30°25.30′	88°58.82′	9/ 5/72	9:34	5.0	30.2	2.5	0.	30.8	14.3												
							5.	30.6	13.3												
30°25.40′	88°59.42′	9/ 5/72	9:43	6.0	30.1	2.0	0.	30.6	14.4												
							5.	30.6	14.4												
30°23.30′	88°47.50′	9/ 5/72	8:08	4.8	29.0	1.5	0.	30.1	22.5												
30°23.35′	88°49.50′	9/ 5/72	8:19	18.2	28.5	2.0	0.	30.2	26.1												
							5.	28.8	25.0												
							10.	28.8	25.5												
							15.	28.8	25.5												
30°23.96′	88°50.37′	9/ 5/72	8:37	18.0	32.0	2.5	0.	30.1	23.0												
							5.	28.9	24.0												
							10.	28.6	26.0												
							15.	28.7	26.0												
30°24.65′	88°51.16′	9/ 5/72	9:00	18.3	29.0	2.3	0.	30.0	23.0												
							5.	28.9	24.0												
							10.	28.9	24.0												
							15.	28.9	25.5												
30°25.25′	88°52.12′	9/ 5/72	9:14	7.6	29.0	3.0	0.	30.0	20.5												
							5.	29.0	23.5												
30°25.26′	88°53.52′	9/ 5/72	9:25	25.0	29.5	2.3	0.	30.8	17.9												
							5.	29.5	18.2												
							10.	28.8	20.9												
							15.	28.8	21.0												
							20.	28.6	21.5												
30°21.78′	88°47.56′	9/ 5/72	8:23	12.2	27.8	2.6	0.	29.2	28.7												
							5.	29.0	28.7												
							10.	29.0	28.8												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE		CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
															ORTHO µg-at P/l	TOTAL µg-at P/l					
30°22.56′	88°48.50′	9/ 5/72	8:33	15.2	28.9	2.2	0.	29.2	26.9												
							5.	29.2	26.8												
							10.	29.4	26.6												
							15.	29.4	26.6												
30°23.36′	88°50.64′	9/ 5/72	8:45	20.0	28.5	1.5	0.	29.2	25.2												
							5.	28.9	25.0												
							10.	29.0	25.0												
							15.	29.0	25.0												
							20.	29.0	25.0												
30°23.37′	88°52.00′	9/ 5/72	8:59	14.8	29.5	2.5	0.	29.6	26.3												
							5.	29.3	26.2												
							10.	29.1	26.3												
30°23.44′	88°53.00′	9/ 5/72	9:08	18.0	28.5	2.5	0.	29.4	26.7												
							5.	29.3	26.7												
							10.	29.2	26.9												
							15.	29.0	27.0												
30°23.52′	88°54.08′	9/ 5/72	9:18	8.6	29.6	3.0	0.	29.2	27.3												
							5.	28.9	27.5												
30°24.91′	88°59.95′	9/ 7/72	9:47	13.5	34.0	2.0	0.	32.0	10.5	7.40											
30°24.96′	88°58.83′	9/ 7/72	9:56	26.9	29.7	2.4	0.	31.0	13.0	6.80											
30°25.15′	88°58.82′	9/ 7/72	10:01	17.9	30.3	2.1	0.	31.0	15.0	6.40											
30°25.50′	88°58.77′	9/ 7/72	10:19	7.0	31.0	2.2	0.	31.0	15.0	6.70											
30°25.39′	88°53.75′	9/ 7/72	13:48	18.0	30.1	2.0	0.	30.0	18.0	7.40											
30°25.08′	88°53.75′	9/ 7/72	13:45	4.0	29.8	2.0	0.	30.2	19.0	8.90											
30°24.84′	88°53.75′	9/ 7/72	13:40	4.0	31.2	2.0	0.	29.8	20.0	7.50											
30°25.13′	88°51.22′	9/ 7/72	14:53	9.0	31.4	2.0	0.	30.5	22.0	8.90											
30°23.44′	88°53.00′	9/ 7/72		17.0		3.0	0.			9.10											
30°21.50′	88°48.27′	9/ 7/72	9:47	4.5		2.5	0.			8.40											
30°21.78′	88°47.56′	9/ 7/72	9:36	15.0		2.8	0.			7.30											
30°22.00′	88°47.20′	9/ 7/72	9:15	5.5	29.1	1.7	0.			7.60											
30°25.30′	88°54.75′	9/ 7/72	9:18	9.2	29.3	2.0	0.	28.9	15.0												
30°25.28′	88°55.77′	9/ 7/72	9:25	9.0	30.0	2.3	0.	29.4	15.0												
30°25.30′	88°56.90′	9/ 7/72	9:31	20.3	29.5	2.2	0.	29.5	14.0												
30°25.37′	88°57.88′	9/ 7/72	9:36	9.0	31.0	2.1	0.	29.9	14.0												
30°25.30′	88°58.82′	9/ 7/72	10:05	6.9	31.4	2.4	0.	31.0	15.0												
30°25.40′	88°59.42′	9/ 7/72	10:12	7.3	30.4	1.8	0.	31.0	14.0												
30°23.30′	88°47.50′	9/ 7/72	10:07	5.0	30.1	1.8	0.	28.9	25.7	5.60											
							5.	28.6	18.8												
30°23.35′	88°49.50′	9/ 7/72	10:30	15.0	31.1	2.0	0.	29.5	27.1	6.10											
							5.	29.3	27.1												
							10.	29.3	27.4												
							15.	29.3	27.3												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°23.96′	88°50.37′	9/ 7/72	11:00	16.0	30.8	2.0	0.	29.3	25.8	6.00											
							5.	29.2	25.9												
							10.	29.1	26.2												
							15.	29.3	26.2												
30°24.65′	88°51.16′	9/ 7/72	11:21	17.5	32.2	2.0	0.	29.2	23.8	6.70											
							5.	29.2	24.2												
							10.	29.1	24.4												
							15.	29.3	18.5												
30°25.25′	88°52.12′	9/ 7/72	12:26	12.0	31.5	2.0	0.	29.7	21.8	8.30											
							5.	29.6	21.9												
							10.	29.7	22.0												
30°25.26′	88°53.52′	9/ 7/72	12:42	17.0	31.5	2.0	0.	29.7	20.0	7.80											
							5.	29.5	20.1												
							10.	29.2	20.3												
							15.	29.1	20.4												
30°21.78′	88°47.56′	9/ 7/72	9:36	15.0		2.8	0.														
30°22.56′	88°48.50′	9/ 7/72	9:55	16.0		3.0	0.														
30°23.36′	88°50.64′	9/ 7/72	10:06	7.0		2.5	0.														
30°23.37′	88°52.00′	9/ 7/72	10:18	13.0		3.0	0.														
30°23.44′	88°53.00′	9/ 7/72	10:21	17.0		3.0	0.														
30°23.52′	88°54.08′	9/ 7/72	10:25	5.0		4.0	0.														
30°24.91′	88°59.95′	9/19/72	9:46	3.5	32.8	1.8	0.	33.5	14.2	6.20	2	7.2	3.430	.000	2.35	6.31	7.44	17.65	152.	.000	
30°24.96′	88°58.83′	9/19/72	10:15	24.0	33.9	2.6	0.	33.5	14.9	6.90	2	7.2	1.434	.000	1.78	6.49	7.85	18.25	162.	.000	
							5.	30.9	16.1												
							10.	30.9	16.5												
							15.	31.0	17.5												
							20.	31.0	18.2												
							24.	30.9	18.6	4.20		7.5	.857	.000	1.52	6.24	9.95		195.	.000	
30°25.15′	88°58.82′	9/19/72	10:45	21.0	35.8	2.2	0.	31.9	16.2	7.00	2	7.5	1.797	.000	1.59	5.20	8.64	21.75	158.	.000	
							5.	31.1	16.8												
							10.	30.9	18.5												
							15.	30.8	18.8												
							20.	30.8	18.8	3.70		7.5	1.171	.000	2.16	6.49	9.98		199.	.000	
30°25.50′	88°58.77′	9/19/72	11:25	14.8	35.6	2.2	0.	32.2	15.3	7.30	3	7.7	.725	.000	1.52	5.33	8.17	15.90	172.	.000	
							5.	31.2	16.3												
							10.	31.1	18.0												
							14.	31.0	18.0	3.70		7.8	.923	.000	1.86	6.06	9.76		195.	.000	
30°25.39′	88°53.75′	9/19/72	8:55	24.1	30.0	1.8	0.	30.3	20.8	7.10	3	7.8	4.287	.000	1.44	6.43	11.01	22.20	214.	.000	
							5.	30.5	21.0												
							10.	30.2	22.2												
							15.	29.9	23.3												
							20.	29.9	22.2	4.60		7.8	.660	.000	1.33	5.82	12.14		212.	.000	
30°25.08′	88°53.75′	9/19/72	9:45	5.4	30.0	1.8	0.	30.9	22.2	6.80	3	7.9	2.968	.000	1.75	7.16	10.94	27.95	211.	.000	
							5.	29.9	20.5	6.00		7.8	.511	.000	2.05	6.73	11.14		227.	.000	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.84′	88°53.75′	9/19/72	10:38	6.5	30.5	1.7	0.	30.6	21.1	7.80	2	7.7	1.154	.000	1.86	6.85	10.38	24.25	204.	.000	
							5.	31.0	20.0	7.90		7.8	.824	.000	2.58	9.55	10.41		204.	.000	
30°24.45′	88°51.61′	9/19/72	11:38	9.0	30.9	1.8	0.	31.8	21.1	8.30	2	7.8	1.055	.000	1.56	7.16	11.60	30.65	290.	.000	
							5.	31.0	21.1	8.20		7.9	.544	.000	1.59	5.39	11.62		80.	.000	
30°25.13′	88°51.22′	9/19/72	12:22	12.2	31.0	1.9	0.	32.0	21.1	9.00	2	7.9	1.006	.000	1.44	6.06	11.55	11.45	210.	.000	
							5.	30.9	21.9												
							10.	30.1	23.9	5.00		8.0	.495	.000	1.71	5.20	12.89		265.	.000	
30°23.44′	88°53.00′	9/19/72	9:15	19.2	31.9	2.4	0.	30.8	16.1	7.30	2	8.0	1.154	.000	1.29	5.93	14.94	21.85	325.	.000	
							5.	29.9	25.9												
							10.	29.8	25.9												
							19.	29.8	26.2	5.80		8.1	.429	.000	1.48	5.08	15.15		349.	.000	
30°21.50′	88°48.27′	9/19/72	11:35	4.5	32.0	2.0	0.	31.0	25.7	8.70	1	8.1	19.424	.103	1.25	5.02	14.83	24.60	310.	.000	
30°21.78′	88°47.56′	9/19/72	12:45	15.2	33.1	2.0	0.	30.6	25.5	9.00	3	8.0	1.187	.000	1.06	5.94	14.52	29.70	340.	.000	
							5.	30.1	25.8												
							10.	29.7	26.3												
							15.	29.7	26.4	6.50		7.9	.563	.205	1.86	6.00	15.25		395.	.000	
30°22.00′	88°47.20′	9/19/72	13:00	7.0	33.1	1.7	0.	30.7	26.0	8.40	1	8.0	.396	.000	1.14	6.55	14.95	43.55	550.	.000	
							5.	30.5	26.0	8.60		8.0	.070	.256	1.52	4.78	15.04		315.	.000	
30°25.24′	88°59.90′	10/ 3/72	10:25	6.3	29.1	1.3	0.	25.0	17.9	7.10	14	7.6	.987	.224	3.00	5.08	9.80	25.20	199.		23.5
							5.	25.0	18.0	7.10		7.6	.947	.140	2.80	4.63	9.90		201.		
30°24.91′	88°59.95′	10/ 3/72	11:02	4.5	28.7	2.0	0.	24.8	15.7	7.10	15	7.7	1.247	.056	2.67	4.93	8.45	25.35	178.		23.9
30°24.96′	88°58.83′	10/ 3/72	11:30	13.0	29.1	2.7	0.	25.2	17.8	6.90	12	7.8	1.484	.196	2.13	4.68	9.67	16.65	199.		27.0
							5.	25.0	18.5												
							10.	24.8	18.6	5.30		7.7	3.004	.084	1.93	4.93	10.24		213.		
30°25.15′	88°58.82′	10/ 3/72	11:55	19.0	28.8	2.4	0.	25.5	18.1	7.20	8	7.6	.524	.196	1.73	4.53	9.86	20.15	201.		26.7
							5.	25.1	18.3												
							10.	24.8	18.5												
							15.	25.3	18.4												
							19.	25.3	13.2	5.70		7.2	.858	.503	2.53	4.53	10.19		207.		
30°25.50′	88°58.77′	10/ 3/72	12:30	18.0	30.2	3.0	0.	25.4	17.9	7.30	5	7.7	.498	.224	2.60	4.93	9.80	18.55	240.		27.4
							5.	25.0	18.8												
							10.	24.8	18.9												
							15.	24.9	19.0	5.80		7.6	.543	.196	3.13	5.03	10.10		240.		
30°25.39′	88°53.75′	10/ 3/72	8:50	27.0	24.4	2.5	0.	22.0	19.0	6.20	7	7.7	1.751	.252	2.93	5.08	12.13	27.40	300.		20.0
							5.	23.4	20.6												
							10.	22.5	20.3												
							15.	23.4	21.1												
							20.	21.5	21.2												
							25.	21.4	21.6	5.30		8.1	.538	.252	2.00	4.53	12.37		290.		
30°25.08′	88°53.75′	10/ 3/72	9:50	6.0	20.6	2.3	0.	24.2	24.9		13	7.6	.535	.280	2.67	4.93	12.79	27.05	300.		17.3
							5.	23.5	24.8			7.9	1.381	.531	2.73	4.32	12.40		270.		
30°24.84′	88°53.75′	10/ 3/72	10:28	7.2		2.2	0.	20.2	19.5		13	7.7	2.480	.587	3.33	6.51	11.89	33.60	290.		24.1
							5.	23.6	21.4			7.7	1.998	.615	3.33	5.49	11.94		300.		

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.45′	88°51.61′	10/ 3/72	10:48	10.5	26.4	1.7	0.	23.9	23.4		15	7.9	3.445	3.049	2.60	3.66	13.23	36.80	320.		18.9
							5.	23.4	23.6												
							10.	23.4	23.6			7.7	.850	.028	1.93	4.53	13.60		330.		
30°25.13′	88°51.22′	10/ 3/72	11:33	13.0	27.4	2.5	0.	24.1	23.9		11	8.0	.574	.252	1.87	4.02	13.61	37.10	330.		13.5
							5.	24.1	24.0												
							10.	23.7	27.3			7.9	.519	.252	1.53	3.56	13.81		300.		
30°23.44′	88°53.00′	10/ 3/72	9:20	21.1	24.1	2.0	0.	22.9	24.8	7.40	26	8.0	22.348	.448	1.80	4.27	13.75	41.25	330.		30.9
							5.	22.9	25.2												
							10.	22.9	25.2												
							15.	23.1	26.1												
							20.	23.0	27.1	8.00		8.0	.597	.196	2.07	2.03	14.08		350.		
30°21.50′	88°48.27′	10/ 3/72	11:17	5.3	23.9	1.5	0.	23.9	28.5	9.00	40	8.0	7.708	.224	1.40	3.00	15.69	70.55	400.		12.5
							5.	23.8	28.4	9.00											
30°21.78′	88°47.56′	10/ 3/72	12:55	16.0	25.4	2.0	0.	23.6	28.1	8.60	24	8.1	.561	.392	1.20	3.00	15.55	46.90	360.		14.1
							5.	23.5	28.2												
							10.	23.5	28.1												
							15.	23.5	28.1	8.60		7.9	.605	.028	1.33	3.56	15.63		360.		
30°22.00′	88°47.20′	10/ 3/72	12:45	7.5	25.4	1.5	0.	23.9	27.7	8.50	46	7.8	2.971	.420	.73	3.10	15.35	85.95	380.		13.3
							5.	23.8	27.8	8.80		8.0	.291	.168	1.20	3.56	15.36		360.		
30°25.24′	88°59.90′	10/17/72	10:35	4.5	32.0	2.5	0.	30.6	17.7	6.90	15	7.8	.465	.000	2.83	5.29	9.71	38.80	194.		
30°24.91′	88°59.95′	10/17/72	11:23	4.5	28.9	2.0	0.	26.9	16.4	9.20	7	8.0	.304	.050	5.25	7.00	9.12	20.00	187.		
30°24.96′	88°58.83′	10/17/72	12:13	31.0	31.5	2.5	0.	28.1	17.8	7.80	7	7.9	.053	.150	3.50	5.57	9.64	23.10	196.		
							5.	27.9	17.7												
							10.	27.2	17.9												
							15.	26.9	18.3												
							20.	27.0	20.3												
							25.	27.1	20.6	4.60		7.7	.352	.000	3.50	5.48	10.30		216.		
30°25.15′	88°58.82′	10/17/72	14:18	16.0	30.5		0.	29.4	18.0	8.80	8	8.0	.196	.000	3.50	4.86	9.98	26.20	201.		
							5.	29.2	18.1												
							10.	28.6	17.9												
							15.	29.6	16.0	8.50		7.9	.372	.000	2.83	5.14	9.58		201.		
30°25.50′	88°58.77′	10/17/72	13:54	12.0	29.9	2.5	0.	28.1	17.8	7.10	4	7.8	.206	.175	2.67	5.14	9.56	14.90	200.		
							5.	28.0	17.8												
							10.	27.9	17.7	7.90		7.8	.446	.025	2.33	4.76	9.70		240.		
30°25.39′	88°53.75′	10/17/72	11:07	28.0	28.8	2.3	0.	26.5	20.3	7.00	3	7.9	.135	.125	2.42	5.62	10.98	22.90	300.		
							5.	26.5	20.4												
							10.	26.5	20.4												
							15.	26.2	21.4												
							20.	26.2	23.6												
							25.	26.1	23.9	5.80		7.8	.404	.275	3.17	4.95	12.70		300.		
30°25.08′	88°53.75′	10/17/72	11:24	6.0	27.6	2.1	0.	26.4	20.8	8.70	7	7.9	.292	.125	3.83	5.67	11.52	29.60	270.		
							5.	26.2	20.8	8.00		7.9	.201	.200	2.42	5.62	11.34		250.		
30°24.84′	88°53.75′	10/17/72	11:34	7.0	28.1	1.2	0.	26.9	20.7	8.40	5	7.9	6.919	.750	4.67	14.24	10.36	23.65	240.		
							5.	26.5	20.9	7.80		8.0	.268	.150	3.50	5.90	11.29		200.		

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.45′	88°51.61′	10/17/72	13:05	9.4	28.3	1.8	0.	27.0	22.2	8.70	5	8.0	.236	.225	2.50	5.95	12.07	26.60	320.		
							5.	26.0	22.3												
							9.	26.1	25.2	7.30		7.9	.140	.100	2.42	5.43	12.14		320.		
30°25.13′	88°51.22′	10/17/72	12:40	11.7	28.0	2.0	0.	26.7	22.2	8.30	5	8.0	.301	.075	3.58	5.29	12.05	22.20	320.		
							5.	26.2	24.0												
							10.	26.0	24.9	5.20		7.9	.363	.050	2.25	5.76	13.71		300.		
30°23.44′	88°53.00′	10/17/72	14:15	11.7	28.6	2.1	0.	27.1	28.3	8.40	9	8.1	.399	.075	1.67	3.81	15.84	17.65	330.		
							5.	26.7	28.3												
							10.	26.5	28.0	8.10		8.1	.504	.025	2.33	4.10	15.75		360.		
30°21.50′	88°48.27′	10/17/72	14:40	4.5		1.5	0.	27.8	28.4	9.20	12	8.1	.355	.100	1.58	4.19	15.22	41.55	350.		
							4.	27.7	28.4	9.40											
30°21.78′	88°47.56′	10/17/72	15:10	14.5	28.1	1.8	0.	26.3	27.1	8.10	9	8.0	.548	.000	2.50	4.71	14.83	38.05	300.		
							5.	26.4	27.1												
							10.	25.8	27.3												
							14.	27.8	25.5	7.30		8.0	.470	.000	2.08	4.14	14.81		360.		
30°22.00′	88°47.20′	10/17/72	15:30	5.7	28.0	1.0	0.	26.6	26.6	8.30	12	8.0	.223	.075	1.50	4.67	14.60	48.45	330.		
							5.	26.6	26.6	8.10		7.9	.411	.000	2.42	4.86	14.73		330.		
30°25.30′	88°54.75′	10/17/72	9:10	10.0	26.0	2.5	0.	26.5	20.0												
							5.	26.3	20.0												
							10.	26.4	20.5												
30°25.28′	88°55.77′	10/17/72	9:30	7.5	26.0	2.0	0.	26.5	19.7												
							5.	26.5	19.7												
30°25.30′	88°56.90′	10/17/72	9:45	24.0	26.8	3.0	0.	27.3	18.7												
							5.	27.3	18.8												
							10.	26.7	21.3												
							15.	26.8	21.8												
							20.	26.8	21.5												
30°25.37′	88°57.88′	10/17/72	10:00	7.0	26.7	2.0	0.	27.2	18.7												
							5.	26.9	18.6												
30°25.30′	88°58.82′	10/17/72	10:20	23.0	26.5	3.0	0.	26.7	18.0												
							5.	26.7	18.0												
							10.	26.6	18.6												
							15.	26.5	15.1												
							20.	26.8	13.0												
30°25.40′	88°59.42′	10/17/72	10:30	7.0	30.1	2.5	0.	26.5	18.9												
							5.	26.6	18.8												
30°23.30′	88°47.50′	10/17/72	8:25	3.1	25.4	1.2	0.	25.5	26.7												
30°23.35′	88°49.50′	10/17/72	8:35	14.0	25.4	2.5	0.	25.3	25.9												
							5.	25.5	26.2												
							10.	25.3	26.3												
30°23.96′	88°50.37′	10/17/72	10:25	19.0	26.8	2.5	0.	25.9	24.0												
							5.	26.0	24.4												
							10.	25.5	25.7												
							15.	25.4	26.0												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
30°24.65′	88°51.16′	10/17/72	10:37	15.5	27.6	2.2	0.	26.1	23.3												
							5.	26.0	23.6												
							10.	25.9	23.6												
							15.	25.7	24.4												
30°25.25′	88°52.12′	10/17/72	10:50	12.0	27.6	2.3	0.	26.4	21.4												
							5.	26.2	21.9												
							10.	26.2	22.1												
30°25.26′	88°53.52′	10/17/72	11:01	22.0	28.2	2.1	0.	26.5	20.4												
							5.	26.2	20.7												
							10.	26.2	20.9												
							15.	26.1	22.3												
							20.	26.1	23.6												
30°21.78′	88°47.56′	10/17/72	9:12	16.7	25.4	2.8	0.	25.4	27.2												
							5.	25.4	27.3												
							10.	25.4	28.3												
							15.	25.4	28.5												
30°22.56′	88°48.50′	10/17/72	9:16	11.8	26.1	2.3	0.	25.7	26.4												
							5.	25.2	26.8												
							10.	25.5	28.1												
30°23.36′	88°50.64′	10/17/72	9:30	19.6	26.1	2.1	0.	25.9	24.9												
							5.	25.5	27.5												
							10.	25.5	27.8												
							15.	25.6	28.1												
							20.	25.7	28.1												
30°23.37′	88°52.00′	10/17/72	9:45	11.0	27.0		0.	25.6	28.3												
							5.	25.7	28.4												
							10.	25.6	28.4												
30°23.44′	88°53.00′	10/17/72	9:50	18.9	27.2	2.2	0.	25.8	28.2												
							5.	25.7	28.3												
							10.	25.6	28.5												
							15.	25.6	28.6												
30°23.52′	88°54.08′	10/17/72	10:00	8.6	27.0	3.0	0.	25.9	28.2												
							5.	25.8	28.3												
30°25.24′	88°59.90′	10/18/72	10:55	4.0	26.8	2.0	0.	31.5	16.0												61.4
30°24.91′	88°59.95′	10/18/72	11:00	7.0	25.8	2.3	0.	27.8	16.0												41.2
30°24.96′	88°58.83′	10/18/72	11:07	26.0	25.4	2.0	0.	28.0	16.0												46.4
30°25.15′	88°58.82′	10/18/72	11:11	17.0	27.4	2.2	0.	29.0	17.0												40.6
30°25.50′	88°58.77′	10/18/72	11:14	10.0	26.4	2.0	0.	28.0	16.0												34.9
30°25.39′	88°53.75′	10/18/72	10:07	20.0	28.9	2.6	0.	27.0	20.0												28.1
30°25.08′	88°53.75′	10/18/72	10:02	7.0	27.4	2.5	0.	26.9	20.0												32.9
30°24.84′	88°53.75′	10/18/72	9:55	7.0	26.9	2.6	0.	26.8	20.0												26.8
30°24.45′	88°51.61′	10/18/72	11:47	7.0	27.1	3.0	0.	26.7	23.9												26.6
30°25.13′	88°51.22′	10/18/72	11:27	8.0	27.5	3.0	0.	26.5	23.1												20.0
30°23.44′	88°53.00′	10/18/72		12.0	27.4	3.0	0.	26.2	28.3												18.1

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°21.50′	88°48.27′	10/18/72	10:07	4.0	27.1	2.0	0.	26.1	28.3												18.2
30°21.78′	88°47.56′	10/18/72	10:00	15.0	26.8	3.0	0.	26.1	27.2												15.3
30°22.00′	88°47.20′	10/18/72	9:55	5.0	26.4	2.0	0.	26.1	26.6												23.8
30°25.30′	88°54.75′	10/18/72	10:13	7.0	28.0	2.8	0.	27.0	19.0												
30°25.28′	88°55.77′	10/18/72	10:18	15.0	26.9	2.5	0.	27.2	18.0												
30°25.30′	88°56.90′	10/18/72	10:23	14.0	26.9	2.5	0.	27.3	18.5												
30°25.37′	88°57.88′	10/18/72	10:32	7.0	27.2	2.3	0.	27.3	18.0												
30°25.30′	88°58.82′	10/18/72	10:42	17.0	26.2	2.4	0.	27.8	17.0												
30°25.40′	88°59.42′	10/18/72	10:47	7.0	26.6	2.5	0.	28.2	18.0												
30°23.30′	88°47.50′	10/18/72	9:30	3.0	26.8	1.8	0.	26.2	26.6												
30°23.35′	88°49.50′	10/18/72	9:40	16.0	26.8	3.0	0.	26.2	24.4												
30°23.96′	88°50.37′	10/18/72	11:00	14.0	27.0	3.0	0.	26.8	25.0												
30°24.65′	88°51.16′	10/18/72	11:18	13.0	27.9	3.0	0.	26.6	23.3												
30°25.25′	88°52.12′	10/18/72	11:30	6.0	27.6	3.5	0.	26.7	22.8												
30°25.26′	88°53.52′	10/18/72	9:50	20.0	29.3	2.5	0.	27.0	20.0												
30°21.78′	88°47.56′	10/18/72	10:14	14.0	27.4	3.0	0.	26.3	26.6												
30°22.56′	88°48.50′	10/18/72	10:00	15.0	26.8	3.0	0.	26.1	27.2												
30°23.36′	88°50.64′	10/18/72	10:25	7.0	26.9	3.0	0.	26.5	26.6												
30°23.37′	88°52.00′	10/18/72	10:30	10.0	26.9	3.0	0.	26.3	28.3												
30°23.44′	88°53.00′	10/18/72	10:38	12.0	27.4	3.0	0.	26.2	28.3												
30°23.52′	88°54.08′	10/18/72	10:45	8.0	27.0	3.0	0.	26.4	28.3												
30°25.24′	88°59.90′	10/31/72	11:15	5.0	29.9	2.7	0.	26.4	16.5	8.20	8	7.6	.409	.000	1.06	2.42	9.22	53.25	240.		31.2
30°24.91′	88°59.95′	10/31/72	11:34	2.4	29.8	2.7	0.	26.0	16.2	9.60	10	7.6	.426	.000	2.41	3.38	9.03	43.10	190.		36.9
30°24.96′	88°58.83′	10/31/72	11:50	28.0	29.0	2.8	0.	22.3	17.9	8.60	6	7.6	2.060	.000	2.41	2.73	10.10	19.45	230.		21.9
							5.	21.7	18.2												
							10.	21.5	18.7												
							15.	21.3	18.7												
							20.	21.1	18.9												
							25.	20.9	20.2	6.20		7.8	.444	.000	1.82	3.34	11.41		250.		
30°25.15′	88°58.82′	10/31/72	12:08	15.0	29.7	3.0	0.	23.4	17.5	8.90	8	7.7	1.350	.000	2.29	3.10	9.89	41.75	300.		18.2
							5.	22.3	17.5												
							10.	21.6	18.4												
							15.	20.9	20.2	6.00		7.9	.995	.000	2.35	3.14	11.16		310.		
30°25.50′	88°58.77′	10/31/72	12:50	23.0	28.0	2.8	0.	23.2	17.4	8.50	6	7.7	.231	.000	1.82	2.69	9.79	20.95	210.		21.8
							5.	22.2	17.4												
							10.	21.7	18.2												
							15.	21.1	19.5												
							20.	20.8	20.0	5.80		7.7	.355	.000	2.88	3.44	11.15		250.		
30°25.39′	88°53.75′	10/31/72	13:30	20.0	29.9	3.0	0.	22.5	20.6	7.90	6	7.6	.906	.000	2.88	3.44	11.61	25.35	265.		21.1
							5.	22.4	20.6												
							10.	21.4	21.4												
							15.	21.3	21.7												
							20.	21.0	22.9	9.50		7.7	.995	.000	2.47	3.10	12.85		280.		
30°25.08′	88°53.75′	10/31/72	13:45	5.0	26.6	2.5	0.	22.9	21.1	8.63	8	7.8	.551	.000	2.94	3.48	12.25	34.05	250.		18.0

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE		CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
															ORTHO µg-at P/l	TOTAL µg-at P/l					
30°24.84′	88°53.75′	10/31/72	13:20	6.0	26.4	3.5	0.	22.4	21.1	8.74	8	7.7	6.148	.839	7.00	7.50	11.68	29.20	280.		21.4
							5.	21.9	21.1	10.60		7.9	.782	.000	3.00	3.78	12.06		265.		
30°24.45′	88°51.61′	10/31/72	12:25	10.0	24.7	4.0	0.	21.8	22.5	10.50	6	8.0	4.416	.194	2.47	3.00	12.53	30.80	320.		19.1
							5.	20.8	23.1												
							10.	20.7	23.5	9.50		7.7	.995	.000	2.82	3.34	13.30		300.		
30°25.13′	88°51.22′	10/31/72	13:02	8.5	25.6	4.0	0.	22.6	22.8	10.50	6	7.6	.728	.000	2.88	3.38	13.05	27.60	290.		12.0
							5.	22.2	23.2	8.50		7.7	.515	.000	2.35	3.10	13.14		290.		
30°23.44′	88°53.00′	10/31/72	11:46	11.0	25.4	4.0	0.	21.6	25.8	10.10	8	7.8	9.503	.000	1.82	2.66	14.87	12.20	320.		12.3
							5.	21.0	26.1												
							10.	21.0	26.3	9.90		7.9	.515	.000	2.06	2.73	14.88		340.		
30°21.50′	88°48.27′	10/31/72	10:46	4.0	25.5	4.0	0.	21.7	28.2	10.20	3	7.9	.853	.000	1.06	1.77	15.71	27.05	340.		4.1
30°21.78′	88°47.56′	10/31/72	10:21	14.0	25.6	5.0	0.	21.4	27.0	9.10	5	7.8	.425	.581	.71	1.64	14.91	31.80	400.		5.4
							5.	20.9	27.9												
							10.	20.8	28.6	8.50		7.8	.373	.000	1.18	1.70	16.01		365.		
30°22.00′	88°47.20′	10/31/72	9:23	6.0	25.0	3.0	0.	21.8	26.6	9.00	8	7.6	.444	.000	.88	1.67	15.28	32.20	350.		11.6
							5.	21.5	26.6	8.80		7.9	2.984	.000	1.18	1.67	15.44		365.		
30°25.30′	88°54.75′	10/31/72	10:30	10.0	26.7	2.5	0.	21.9	20.7												
							5.	21.7	20.7												
							10.	21.0	22.3												
30°25.28′	88°55.77′	10/31/72	10:38	10.0	29.0	3.0	0.	21.9	19.9												
							5.	21.7	20.1												
							10.	21.2	21.2												
30°25.30′	88°56.90′	10/31/72	10:47	19.0	30.6	3.0	0.	21.9	19.5												
							5.	21.4	19.5												
							10.	21.3	20.7												
							15.	21.2	19.0												
30°25.37′	88°57.88′	10/31/72	10:53	3.0	30.0	2.3	0.	22.0	19.1												
30°25.30′	88°58.82′	10/31/72	11:03	19.0	29.0	3.1	0.	22.4	17.7												
							5.	22.1	17.7												
							10.	21.6	18.5												
							15.	21.0	19.1												
30°25.40′	88°59.42′	10/31/72	11:06	7.0	27.8	2.9	0.	24.7	16.9												
							5.	24.1	17.0												
30°23.30′	88°47.50′	10/31/72	9:07	6.0	24.9	1.5	0.	21.6	27.3												
							5.	21.5	27.5												
30°23.35′	88°49.50′	10/31/72	9:17	17.0	25.1	4.0	0.	21.0	27.8												
							5.	21.1	28.2												
							10.	21.0	28.6												
							15.	21.4	28.4												
30°23.96′	88°50.37′	10/31/72	12:09	17.0	24.0	3.5	0.	21.7	24.5												
							5.	20.7	25.8												
							10.	20.3	28.0												
							15.	20.7	28.6												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.65′	88°51.16′	10/31/72	12:16	11.0	25.0	4.0	0.	22.5	23.2												
							5.	21.9	23.5												
							10.	20.8	24.8												
30°25.25′	88°52.12′	10/31/72	13:12	9.0	25.7	4.0	0.	22.3	21.7												
							5.	21.4	23.1												
30°25.26′	88°53.52′	10/31/72	10:20	22.0	27.8	2.9	0.	21.3	21.5												
							5.	21.1	22.4												
							10.	21.0	22.9												
							15.	20.9	23.4												
							20.	20.8	23.5												
30°21.78′	88°47.56′	10/31/72	10:21	14.0	25.6	5.0	0.	21.4	27.0												
							5.	20.9	27.9												
							10.	20.8	28.6												
30°22.56′	88°48.50′	10/31/72	9:29	12.0	24.9	4.0	0.	21.3	27.8												
							5.	21.0	28.5												
							10.	20.9	24.1												
30°23.36′	88°50.64′	10/31/72	11:02	7.5	25.1	3.0	0.	21.6	24.9												
							5.	20.4	26.8												
30°23.37′	88°52.00′	10/31/72	11:09	12.3	26.2	3.5	0.	21.6	24.9												
							5.	20.9	25.7												
							10.	20.5	26.1												
30°23.44′	88°53.00′	10/31/72	11:46	11.0	25.4	4.0	0.	21.6	25.8												
							5.	21.0	26.1												
							10.	21.0	26.3												
30°23.52′	88°54.08′	10/31/72	11:17	9.0	25.0	4.0	0.	21.3	26.4												
							5.	20.6	27.8												
30°25.24′	88°59.90′	11/14/72	10:05	3.5	12.4	1.5	0.	20.4	15.9	8.30	63	7.7	1.804	.864	2.06	6.54	8.76	192.60	210.		56.9
30°24.91′	88°59.95′	11/14/72	10:40	5.0	12.9	2.5	0.	19.1	15.6	8.10	15	7.8	.418	.568	2.65	8.10	8.70	65.20	190.		50.9
							5.	19.1	15.6	8.10											
30°24.96′	88°58.83′	11/14/72	11:20	23.0	12.5	3.5	0.	19.0	16.0	9.40	12	7.8	7.212	.765	1.21	5.88	9.13	81.60	205.		60.9
							5.	19.0	16.0												
							10.	19.7	17.5												
							15.	19.7	17.5												
							20.	19.5	17.7	7.60		7.9	3.240	.691	1.36	4.08	9.70		215.		
30°25.15′	88°58.82′	11/14/72	11:55	16.0	13.5	3.2	0.	19.1	17.5	8.50	8	7.8	1.187	.000	1.29	4.02	10.01		230.		32.6
							5.	19.0	17.6												
							10.	19.0	17.6												
							15.	18.6	14.7	8.20		7.8	.958	.000	1.21	4.86	9.88		210.		
30°25.50′	88°58.77′	11/14/72	12:25	8.0	13.6	3.2	0.	19.4	17.5	8.20	8	7.8	.417	.000	1.14	3.54	10.04	81.60	200.		30.2
							5.	19.4	17.6	7.90		7.8	.375	.000	1.29	4.26	9.92		210.		

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.39′	88°53.75′	11/14/72	14:14	27.0	14.4	3.5	0.	19.2	20.4	9.30	6	7.8	.375	.000	1.40	5.40	11.49	57.40	255.		34.1
							5.	19.3	20.3												
							10.	19.1	20.5												
							15.	19.2	20.5												
							20.	18.9	19.9												
							25.	18.7	18.4	8.40		7.7	.375	.000	1.36	5.88	11.66		280.		
30°25.08′	88°53.75′	11/14/72	11:35	4.5	16.4	1.7	0.	18.8	19.8	9.90	10	7.8	.979	.000	1.33	4.80	11.33	34.50	230.		36.5
30°24.84′	88°53.75′	11/14/72	11:50	4.9	16.5	2.0	0.	18.7	19.9	10.30	9	7.3	.208	.000	1.40	4.14	11.37	80.40	250.		41.5
30°24.45′	88°51.61′	11/14/72	13:30	7.9	16.5	2.5	0.	18.6	21.2	9.70	7	8.0	.208	.000	1.25	4.80	12.30	65.00	260.		41.4
							5.	18.6	21.3	9.25		7.9	.125	.000	1.29	4.92	12.39		265.		
30°25.13′	88°51.22′	11/14/72	13:12	7.5	17.4	2.0	0.	18.8	21.8	9.30	5	7.7	.187	.000	1.40	4.38	12.49	34.00	295.		29.3
							5.	18.7	21.8	9.20		7.9	.229	.000	1.10	4.74	12.64		340.		
30°23.44′	88°53.00′	11/14/72	10:07	8.5	16.6	2.5	0.	18.2	26.5	8.10	8	7.9	.271	.000	.96	3.96	15.18	35.80	325.		15.8
							5.	18.2	26.6	7.90		7.8	.354	.000	.92	3.66	15.37		325.		
30°21.50′	88°48.27′	11/14/72	14:39	4.1	15.9	1.5	0.	17.8	26.8	7.50	22	7.9	.229	.000	.85	3.42	15.56	113.20	360.		14.5
30°21.78′	88°47.56′	11/14/72	14:22	14.0	16.0	2.0	0.	18.0	27.1	8.85	11	7.9	.167	.000	.74	3.66	15.85	41.90	340.		21.8
							5.	18.1	27.3												
							10.	18.1	27.4	8.70		8.0	.646	.000	.96	4.08	15.93		355.		
30°22.00′	88°47.20′	11/14/72	13:55	4.5	16.3	1.5	0.	18.1	26.6	9.10	21	7.9	.812	.000	.99	3.66	15.37	56.50	310.		11.0
30°25.30′	88°54.75′	11/14/72	9:28	9.0	12.4	3.5	0.	18.5	19.6												
							5.	18.7	19.7												
30°25.28′	88°55.77′	11/14/72	9:38	12.0	12.4	4.0	0.	18.6	19.3												
							5.	18.6	19.3												
							10.	18.6	19.4												
30°25.30′	88°56.90′	11/14/72	9:44	19.0	12.0	4.0	0.	19.4	18.1												
							5.	19.3	18.7												
							10.	19.3	18.9												
							15.	19.3	19.1												
30°25.37′	88°57.88′	11/14/72	9:52	3.5	12.0	3.5	0.	18.9	17.9												
30°25.30′	88°58.82′	11/14/72	10:00	16.0	12.4	3.0	0.	19.7	17.2												
							5.	19.5	17.4												
							10.	19.6	17.7												
							15.	19.5	17.7												
30°25.40′	88°59.42′	11/14/72	10:07	4.0	12.4	1.0	0.	19.0	17.7												
30°23.30′	88°47.50′	11/14/72	8:55	3.9	15.6	2.5	0.	18.0	24.6												
30°23.35′	88°49.50′	11/14/72	9:24	15.2	15.6	2.0	0.	18.3	23.9												
							5.	18.4	24.1												
							10.	18.4	23.9												
							15.	18.4	24.3												
30°23.96′	88°50.37′	11/14/72	10:58	15.5	15.3	2.4	0.	18.3	23.4												
							5.	18.4	23.5												
							10.	18.4	23.6												
							15.	18.4	23.5												

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
30°24.65'	88°51.16'	11/14/72	11:04	10.8	15.2	2.0	0.	18.3	21.8												
							5.	18.2	21.8												
							10.	18.2	22.0												
30°25.25'	88°52.12'	11/14/72	11:11	5.0	15.9	2.5	0.	18.9	21.0												
							5.	18.9	20.9												
30°25.26'	88°53.52'	11/14/72	9:17	20.0	11.5	3.5	0.	19.0	20.3												
							5.	19.0	20.3												
							10.	19.0	20.3												
							15.	19.0	20.3												
							20.	19.0	20.3												
30°21.78'	88°47.56'	11/14/72	9:08	16.0	14.8	2.0	0.	18.1	26.8												
							5.	18.1	26.9												
							10.	18.1	27.1												
							15.	18.1	27.2												
30°22.56'	88°48.50'	11/14/72	9:16	12.8	14.5	2.0	0.	18.1	25.4												
							5.	18.1	25.5												
							10.	18.2	26.0												
30°23.36'	88°50.64'	11/14/72	9:31	6.1	16.4	2.0	0.	18.1	23.4												
							5.	18.1	23.6												
30°23.37'	88°52.00'	11/14/72	9:37	8.4	15.6	2.3	0.	18.5	25.5												
							5.	18.4	25.8												
30°23.44'	88°53.00'	11/14/72	10:07	8.5	16.6	2.5	0.	18.2	26.5												
							5.	18.2	26.6												
30°23.52'	88°54.08'	11/14/72	9:47	8.3	15.1	2.0	0.	18.0	26.8												
							5.	18.1	26.8												
30°24.91'	88°59.95'	12/ 1/72	9:45	14.0	8.1	4.0	0.	10.7	8.4	9.90	6	7.8	11.464	.822	6.07	9.25	4.67	25.55	395.		34.1
							5.	12.5	12.5												
							10.	12.0	16.9	7.40		7.7	1.383	.000	1.93	4.52	4.89		210.		
30°24.96'	88°58.83'	12/ 1/72	10:15	9.0	8.1	4.5	0.	10.2	11.7	9.70	4	7.5	2.785	.219	.71	4.18	5.94	25.60	149.		22.6
							5.	11.5	17.8	7.70		8.0	4.227	.301	1.21	3.54	7.35		230.		
30°25.15'	88°58.82'	12/ 1/72	10:50	17.0	9.8	4.9	0.	12.0	10.7	10.00	4	7.9	2.740	.219	1.21	3.69	4.66	26.70	140.		24.6
							5.	11.7	15.2												
							10.	11.5	17.3												
							15.	11.4	17.4	8.10		7.9	1.633	.000	1.00	3.34	7.08		225.		
30°25.50'	88°58.77'	12/ 1/72	11:10	13.0	10.0	4.5	0.	11.6	11.4	11.10	4	8.0	.499	.000	.21	2.02	6.30	26.55	169.		22.4
							5.	11.6	16.2												
							10.	11.5	17.4	7.60		8.0	.862	.000	2.00	4.38	9.26		255.		
30°25.39'	88°53.75'	12/ 1/72	12:10	19.0	12.6	4.5	0.	11.3	15.4	10.10	3	8.0	.045	.000	.57	2.80	7.63	32.45	225.		20.6
							5.	11.0	16.8												
							10.	10.7	18.0												
							15.	10.7	18.3	9.20		8.0	.476	.000	.71	3.34	8.46		250.		
30°25.08'	88°53.75'	12/ 1/72	14:11	4.0	10.9	2.9	0.	11.2	17.7	10.20	4	8.0	.431	.000	.64	3.54	8.45	31.60	240.		19.6
30°24.84'	88°53.75'	12/ 1/72	13:31	4.9	12.2	2.2	0.	11.1	17.6	10.20	3	8.0	5.298	.247	1.07	3.89	8.33	22.25	268.		21.4

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.45′	88°51.61′	12/ 1/72	12:01	8.0	12.5	3.0	0.	10.9	17.4	9.50	5	7.9	1.814	.000	1.36	3.69	7.58	33.95	250.		17.8
							5.	10.7	21.5	9.60		7.9	.340	.000	.64	3.05	11.99		280.		
30°25.13′	88°51.22′	12/ 1/72	12:35	11.1	14.7	3.8	0.	10.4	21.0	9.60	4	8.0	1.247	.000	.64	3.49	9.57	35.70	290.		15.3
							5.	10.3	21.7												
							10.	10.4	28.3	9.20		8.0	.454	.000	.71	3.20	12.26		312.		
30°23.44′	88°53.00′	12/ 1/72	11:07	7.0	12.9	4.0	0.	9.3	27.1	9.70	3	8.0	2.744	.000	.64	2.51	13.08	39.85	350.		5.4
							5.	9.3	27.0	9.60		8.0	1.565	.000	.64	2.90	15.35		419.		
30°21.50′	88°48.27′	12/ 1/72	10:23	3.8	8.9	2.8	0.	9.6	23.6	10.00	7	8.1	1.565	.000	.64	3.39	14.37	82.45	360.		10.0
30°21.78′	88°47.56′	12/ 1/72	9:45	11.0	8.3	2.5	0.	9.5	25.2	9.20	5	8.0	2.018	.000	.64	2.95	14.12	52.45	500.		11.8
							5.	9.7	25.5												
							10.	10.3	27.0	9.00		8.0	.272	.000	1.29	4.43	15.23		562.		
30°22.00′	88°47.20′	12/ 1/72	9:15	4.3	6.0	2.0	0.	9.1	26.8	9.40	10	8.0	1.837	.000	.64	2.90	14.01	64.25	430.		8.5
30°24.91′	88°59.95′	12/19/72	10:30	12.0	16.5	1.3	0.	13.9	1.1	9.60	15	6.8	4.048	.297	1.55	3.31	.83	26.35	50.	.267	8.4
							5.	12.3	1.1												
							10.	12.7	1.7	8.00		7.3	4.864	.486	2.05	3.51	.88		40.	.153	
30°24.96′	88°58.83′	12/19/72	11:00	16.0	16.5	1.5	0.	12.9	1.1	9.10	12	7.7	2.999	.243	.80	1.58	.51	17.95	20.	.127	9.0
							5.	11.8	1.1												
							10.	11.5	1.1												
							15.	11.6	1.1	8.70		7.5	3.042	.216	.95	2.08	.96		20.	.078	
30°25.15′	88°58.82′	12/19/72	11:30	16.0	16.8	1.8	0.	14.5	1.1	9.00	12	6.9	1.977	.270	.40	1.07	1.48	19.60	110.	.106	8.3
							5.	12.0	1.1												
							10.	11.7	1.1												
							15.	11.7	1.1	8.30		7.3	2.148	.270	.80	1.98	.97		40.	.950	
30°25.50′	88°58.77′	12/19/72	12:00	15.1	16.6	1.3	0.	12.1	1.4	9.50	11	8.0	1.282	.459	.20	1.07	1.22	15.95	60.	.158	8.0
							5.	12.0	1.1												
							10.	11.7	1.4												
							15.	11.5	1.4	8.40		7.6	2.888	.541	.95	2.29	1.08		50.	.082	
30°25.39′	88°53.75′	12/19/72	12:40	20.9	16.8	2.3	0.	14.6	6.1	9.60	6	7.7	2.261	.297	.45	1.58	2.48	17.20	60.	.056	9.7
							5.	12.3	6.4												
							10.	11.9	6.6												
							15.	12.0	6.6												
							20.	11.9	6.6	9.40		7.0	1.608	.297	.75	1.98	1.73		70.	.050	
30°25.08′	88°53.75′	12/19/72	13:00	4.5	17.9	2.5	0.	10.6	8.2	8.00	9	7.4	2.148	.054	.75	2.08	4.50	11.25	40.	.053	11.9
30°24.84′	88°53.75′	12/19/72	12:45	4.8	17.9	1.2	0.	11.2	7.0	8.00	10	7.2	2.974	.324	1.25	2.80	1.54	24.35	20.	.082	8.8
30°24.45′	88°51.61′	12/19/72	12:15	6.8	15.2	3.0	0.	10.3	10.2	8.50	6	7.4	2.973	.162	.95	2.29	6.48	15.60	40.	.056	11.7
							5.	10.2	10.7	8.30		7.4	1.667	.270	1.40	2.08	4.68		60.	.032	
30°25.13′	88°51.22′	12/19/72	11:50	11.0	15.9	3.2	0.	10.4	10.6	8.60	5	7.2	1.839	.054	.60	2.44	3.80	15.25	30.	.053	13.3
							5.	10.3	11.0												
							10.	1.0	11.0	8.10		7.3	.456	.243	.90	2.29	3.76		20.	.032	
30°23.44′	88°53.00′	12/19/72	11:10	12.0	14.6	5.5	0.	9.4	18.1	8.60	4	7.7	1.057	.189	.55	2.29	8.66	19.25	60.	.030	10.6
							5.	9.3	19.2												
							10.	9.5	21.2	8.10		7.9	.912	.216	.60	3.05	11.84		40.	.025	
30°21.50′	88°48.27′	12/19/72	10:45	3.0	13.2	1.5	0.	9.7	22.9	8.80	18	7.7	.405	.135	.50	2.59	8.96	58.10	70.	.076	13.5

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE		CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
															ORTHO µg-at P/l	TOTAL µg-at P/l					
30°21.78′	88°47.56′	12/19/72	10:15	12.5	13.5	2.8	0.	9.4	19.4	8.90	5	7.7	.628	.243	.90	2.08	8.58	19.05	30.	.027	10.2
							5.	9.1	19.5												
							10.	9.2	23.5	9.20		7.9	.826	.216	1.00	2.44	11.52		60.	.017	
30°22.00′	88°47.20′	12/19/72	9:30	3.0	15.6	1.0	0.	9.8	25.8	8.20	27	7.8	.860	.270	.10	2.08	14.37	58.40	30.	.102	16.3
30°23.44′	88°53.00′	1/ 9/73	11:37	7.5	3.5	2.9	0.	8.1	15.4	11.00	4	7.7	1.366	.333	1.13	2.31	8.65	26.20	130.	.084	18.0
							5.	8.2	16.5	10.40		7.8	1.188	.000	.81	2.25	10.40		170.	.105	
30°21.50′	88°48.27′	1/ 9/73	10:42	2.8	3.5	2.0	0.	8.2	12.3	10.00	10	7.6	2.137	.444	1.13	2.60	6.53	25.30	330.	.005	17.0
30°21.78′	88°47.56′	1/ 9/73	10:20	10.7	4.7	2.5	0.	9.5	16.8	11.20	5	7.8	1.059	.194	.63	2.94	8.99	31.25	140.	.025	34.0
							5.	9.5	16.8												
							10.	9.6	17.2	9.10		7.9	.504	.278	1.19	2.19	12.25		400.	.017	
30°22.00′	88°47.20′	1/ 9/73	9:17	3.8	3.0	1.5	0.	9.3	18.2	9.40	8	7.8	.721	.222	1.00	2.60	9.77	32.40	940.	.015	22.1
30°24.91′	88°59.95′	1/10/73	10:43	13.0	5.0	2.2	0.	10.5	1.5	8.30	9	7.6	8.849	1.000	3.56	5.65	.75	8.65	10.	.350	4.3
							5.	10.8	1.7												
							10.	11.0	1.9	7.80		7.2	7.643	1.000	3.44	4.67	.85		50.	.324	
30°24.96′	88°58.83′	1/10/73	11:06	14.0	5.0	2.2	0.	10.0	1.1	9.80	10	7.4	6.436	.500	.69	2.19	.80	12.85	60.	.261	4.1
							5.	10.0	1.8												
							10.	9.8	1.9	9.20		7.3	3.139	.333	.81	2.37	.82		90.	.234	
30°25.15′	88°58.82′	1/10/73	11:34	15.0	3.1	2.2	0.	9.8	1.3	10.20	10	7.2	2.834	.500	.81	1.85	.82	11.30	80.	.251	4.7
							5.	9.9	1.8												
							10.	9.8	1.9												
							15.	9.7	2.2	9.50		7.5	2.434	.556	.63	1.73	1.29		105.	.225	
30°25.50′	88°58.77′	1/10/73	12:10	19.0	4.1	2.2	0.	9.8	1.6	10.00	7	7.5	2.121	.500	.13	1.62	.84	6.05	45.	.115	5.2
							5.	9.8	1.8												
							10.	10.0	1.9												
							15.	10.0	2.0	9.40		7.3	1.674	.528	.69	1.73	1.15		90.	.154	
30°25.39′	88°53.75′	1/10/73	13:10	19.0	5.4	2.0	0.	10.1	5.2	9.70	8	7.5	4.511	.833	1.06	2.42	2.63	14.45	180.	.122	7.4
							5.	10.0	6.0												
							10.	10.1	6.9												
							15.	10.1	8.0	9.30		7.3	3.330	.556	.88	2.31	4.07		380.	.086	
30°25.08′	88°53.75′	1/10/73	11:15	3.0	2.8	2.8	0.	8.1	4.0	10.10	6	7.6	3.272	.750	1.25	2.37	2.36	11.80	60.	.136	7.1
30°24.84′	88°53.75′	1/10/73	11:00	4.0	2.8	3.0	0.	7.8	3.8	11.70	5	7.7	3.439	.556	1.13	2.42	2.18	13.80	135.	.156	5.7
30°24.45′	88°51.61′	1/10/73	10:05	7.0	3.2	3.5	0.	7.6	5.2	10.30	5	7.6	4.351	.000	1.25	2.94	4.18	21.35	309.	.120	10.3
							5.	8.7	10.5	10.50		7.4	5.969	.722	1.31	2.88	3.88		360.	.112	
30°25.13′	88°51.22′	1/10/73	9:38	10.5	6.1	3.5	0.	8.3	6.6	10.40	5	7.2	2.879	.722	1.06	2.31	3.49	12.05	155.	.112	10.4
							5.	8.9	14.2												
							10.	9.2	15.3	9.20		7.8	1.394	.361	1.25	2.77	7.51		130.	.037	
30°24.91′	88°59.95′	1/23/73	9:35	13.1	13.8	1.7	0.	13.6	2.8	9.80	6	7.1	7.256	.912	2.82	6.13	.53	14.53	40.	.097	37.4
							5.	13.4	3.7												
							10.	13.6	4.4	8.60		7.9	1.799	.265	1.16	1.81	4.82		95.	.030	
30°24.96′	88°58.83′	1/23/73	10:00	20.4	12.1	2.2	0.	15.1	2.2	10.30	4	7.8	3.591	.088	.43	1.19	1.26	11.13	22.	.055	20.5
							5.	15.2	2.3												
							10.	15.2	2.4												
							15.	15.2	2.6	10.00		8.0	30.142	.118	2.75	3.75	1.95		55.	.035	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.15′	88°58.82′	1/23/73	10:10	17.0	12.9	2.8	0.	12.4	1.9	9.40	4	8.0	3.614	.000	.37	.94	.84	8.40	45.	.040	15.9
							5.	12.8	2.7												
							10.	12.9	2.8												
							15.	13.4	3.5	9.70		6.9	.853	.000	.49	.69	1.90		45.	.055	
30°25.50′	88°58.77′	1/23/73	10:20	8.0	13.0	2.8	0.	12.5	1.6	8.90	3	8.0	2.437	.000	.31	1.19	.85	7.93	42.	.030	7.9
							5.	12.4	1.6	9.40		8.0	.833	.000	.37	.94	1.14		32.	.052	
30°25.39′	88°53.75′	1/23/73	12:01	20.2	15.5	2.1	0.	13.8	5.7	10.80	7	7.9	.406	.000	.67	1.38	3.10	9.80	82.	.037	34.5
							5.	13.6	6.3												
							10.	13.7	9.9												
							15.	13.8	11.0	9.50		7.1	.223	.000	.92	1.94	6.26		150.	.010	
30°25.08′	88°53.75′	1/23/73	14:00	4.2		3.0	0.	15.1	8.9	9.80	9	7.9	.406	.000	.61	1.88	4.30	20.20	110.	.020	16.6
30°24.84′	88°53.75′	1/23/73	14:25	5.0		3.0	0.	15.1	8.3	10.30	5	7.8	5.236	.088	1.16	3.19	5.22	19.20	112.	.025	34.4
30°24.45′	88°51.61′	1/23/73	13:25	7.8		3.0	0.	15.0	11.1	10.10	4	8.0	.660	.118	.61	3.00	3.47	22.47	105.	.020	35.1
							5.	13.3	15.5	8.20		7.9	.569	.000	1.41	2.38	7.02		160.	.005	
30°25.13′	88°51.22′	1/23/73	12:45	9.5		4.0	0.	14.6	10.0	10.90	3	7.9	.447	.000	.67	1.94	5.19	22.13	125.	.005	13.5
							5.	14.5	11.1												
							10.	14.1	15.5	9.30		7.8	.508	.000	1.47	2.19	8.51		189.	.020	
30°23.44′	88°53.00′	1/23/73	12:00	8.0		3.2	0.	14.0	17.2	10.30	6	7.9	.650	.000	.61	1.94	8.69	38.40	210.	.020	13.2
							8.	13.8	18.9	9.60		7.8	.792	.000	.73	2.56	9.86		190.	.015	
30°21.50′	88°48.27′	1/23/73	11:25	3.2		3.0	0.	14.0	15.5	10.10	7	8.0	1.200	.382	.61	1.88	8.20	26.00	210.	.017	11.6
30°21.78′	88°47.56′	1/23/73	11:00	11.2		3.0	0.	13.8	17.2	10.50	5	7.9	.426	.000	1.04	2.19	9.56	29.93	315.	.017	11.5
							5.	14.0	17.2												
							10.	14.0	18.9	10.10		7.9	2.538	.000	.80	3.00	10.02		235.	.005	
30°22.00′	88°47.20′	1/23/73	10:00	4.0		2.0	0.	13.5	21.1	10.00	5	7.8	.447	.000	1.10	3.00	10.21	19.20	212.	.012	21.4
30°24.91′	88°59.95′	2/ 6/73	11:05	13.0	21.0	2.2	0.	16.2	2.5	9.90	10	6.9	2.559	.406	1.00	2.05	1.80	9.73	65.	.135	38.8
							5.	14.3	2.6												
							10.	13.8	4.9	8.50		7.0	1.162	.232	1.20	2.20	3.10		33.	.052	
30°24.96′	88°58.83′	2/ 6/73	11:15	13.7	21.0	2.2	0.	15.1	3.2	9.60	7	7.2	.703	.261	.67	1.68	1.69	10.20	38.	.112	24.1
							5.	13.6	5.5												
							10.	13.5	6.1	9.00		7.1	.743	.290	.87	1.54	3.45		73.	.084	
30°25.15′	88°58.82′	2/ 6/73	11:30	19.5	19.8	2.2	0.	15.8	2.0	1.20	7	7.3	.789	.290	.53	1.39	1.23	2.07	27.	.113	21.4
							5.	15.3	2.6												
							10.	13.6	5.3												
							15.	13.5	5.8	9.20		7.2	.414	.232	.87	2.05	3.59		72.	.073	
30°25.50′	88°58.77′	2/ 6/73	11:40	12.0	20.2	2.0	0.	16.6	2.3	10.30	10	7.3	.195	.319	.53	1.32	1.28	13.33	27.	.112	20.3
							5.	14.2	4.1												
							10.	13.7	5.3	9.40		7.2	.432	.261	1.13	1.54	2.73		57.	.055	
30°25.39′	88°53.75′	2/ 6/73	13:30	20.7	21.2	3.0	0.	16.4	6.8	11.90	7	7.3	1.315	.261	1.47	3.15	3.67	17.40	80.	.033	30.8
							5.	15.3	7.3												
							10.	14.9	7.9												
							15.	14.6	10.4												
							20.	14.5	10.6	9.90		7.3	.430	.000	1.07	2.93	5.86		118.	.030	
30°25.08′	88°53.75′	2/ 6/73	14:01	3.8	19.6	2.0	0.	16.3	8.9	9.80	6	7.4	.537	.174	1.80	3.59	4.42	15.40	87.	.020	11.2
30°24.84′	88°53.75′	2/ 6/73	13:42	4.8	18.8	2.0	0.	17.1	8.9	9.90	7	7.4	1.108	.145	2.33	5.78	4.17	19.27	84.	.094	13.1

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
30°24.45′	88°51.61′	2/ 6/73	13:00	7.0	18.4	2.5	0.	16.9	10.0	11.00	5	7.5	.521	.000	1.13	2.34	5.00	13.53	110.	.122	17.0
							5.	15.0	16.6												
							7.	14.5	16.6	9.80		7.6	.385	.000	1.00	2.20	8.56		160.	.088	
30°25.13′	88°51.22′	2/ 6/73	12:45	9.8	18.8	2.0	0.	16.4	10.5	9.70	5	7.7	.393	.087	.67	2.05	5.09	15.13	98.	.063	11.6
							5.	15.8	11.6												
							9.	14.9	16.3	10.10		7.8	1.224	.261	.73	2.20	8.28		157.	.040	
30°23.44′	88°53.00′	2/ 6/73	11:43	8.1	18.8	2.0	0.	16.6	21.1	9.10	8	7.8	.517	.696	1.07	2.20	10.61	27.87	181.	.131	10.7
							5.	16.0	21.4	9.90		7.9	.375	.058	.60	2.05	11.11		183.	.044	
30°21.50′	88°48.27′	2/ 6/73	11:05	3.1	19.6	2.7	0.	15.8	18.9	9.40	6	8.0	.250	.261	.40	1.76	9.75	22.80	174.	.052	5.1
30°21.78′	88°47.56′	2/ 6/73	10:45	13.0	19.6	3.0	0.	16.1	18.9	9.20	4	8.0	3.376	.261	.53	1.83	9.25	14.00	174.	.037	3.9
							5.	15.1	21.1												
							10.	14.2	21.1	9.10											
30°22.00′	88°47.20′	2/ 6/73	10:13	4.0	18.6	2.5	0.	16.9	16.7	9.30	5	7.8	1.017	.145	1.00	2.78	8.61	20.13	177.	.071	5.5
30°24.91′	88°59.95′	2/20/73	10:27	12.0	19.5	2.0	0.	13.2	.2	8.70	16	7.9	3.326	.052	.87	1.71	.19	13.60	4.	.214	4.9
							5.	12.3	.4												
							10.	10.4	5.4	7.90		7.5	2.598	.078	1.07		3.40		63.	.189	
30°24.96′	88°58.83′	2/20/73	10:36	10.0	18.9	2.0	0.	12.7	1.0	8.60	13	7.9	2.271	.156	.53	1.24	.24	12.33	7.	.174	4.7
							5.	11.4	3.2												
							10.	10.4	11.4	8.30		7.6	2.011	.104	.93	1.65	5.88		118.	.093	
30°25.15′	88°58.82′	2/20/73	10:45	16.0	19.0	2.0	0.	13.1	.4	8.20	12	8.0	1.414	.052	.53	1.12	.22	11.13	6.	.207	4.7
							5.	11.9	7.4												
							10.	10.2	11.1	7.70		7.7	2.277	.208	.87	1.71	6.21		124.	.082	
30°25.50′	88°58.77′	2/20/73	10:52	7.0	19.9	2.0	0.	11.6	.8	9.10	12	7.1	2.046	.156	.47	1.18	.44	13.33	11.	.175	4.2
							5.	10.5	6.9	8.70		6.8	1.920	.052	.67	1.41	3.02		23.	.093	
30°25.39′	88°53.75′	2/20/73	10:40	24.5	16.8	2.0	0.	11.8	3.3	8.80	11	7.3	4.131	.182	.80	1.65	2.11	17.47	48.	.101	10.4
							5.	11.2	7.8												
							10.	11.0	10.6												
							15.	11.5	13.3												
							20.	10.9	15.5	7.80		7.2	.598	.052	.93	1.94	8.81		161.	.081	
30°25.08′	88°53.75′	2/20/73	11:30	4.5	16.5	1.8	0.	12.0	4.4	8.80	10	7.7	7.011	.052	.67	1.59	2.21	15.33	48.	.114	13.5
30°24.84′	88°53.75′	2/20/73	11:45	5.0	16.5	1.8	0.	11.5	3.3	8.60	11	7.8	6.596	.312	1.27	2.06	2.10	18.33	54.	.117	
30°24.45′	88°51.61′	2/20/73	12:35	8.2	16.6	1.8	0.	12.8	6.7	9.60	10	7.7	3.149	.208	.53	2.88	3.66	22.20	81.	.077	35.5
							5.	11.3	13.3	9.00		7.6	.886	.104	.73	1.94	7.33		176.	.041	
30°25.13′	88°51.22′	2/20/73	12:00	10.0	17.0	2.0	0.	12.1	6.7	9.60	10	7.9	.429	.052	.60	2.41	3.96	27.53	140.	.072	37.5
							5.	12.2	8.9												
							10.	11.0	16.7	8.40		7.7	.506	.000	.67	1.82	9.15		138.	.048	
30°23.44′	88°53.00′	2/20/73	12:05	19.5	15.8	4.1	0.	11.5	13.4	10.50	5	7.6	.256	.026	.40	1.24	7.64	24.13	162.	.047	5.6
							5.	11.0	14.3												
							10.	10.5	16.5												
							15.	10.4	17.1	9.90		7.7	.967	.078	.60	1.88	10.28		197.	.071	
30°21.50′	88°48.27′	2/20/73	10:53	4.3	13.9	3.5	0.	11.0	10.7	10.70	6	7.2	.366	.000	.13	1.24	6.16	18.33	122.	.055	5.7
30°21.78′	88°47.56′	2/20/73	9:35	10.0	14.1	3.8	0.	10.6	12.0	10.20	5	7.7	.232	.052	.33	1.47	6.79	23.60	134.	.047	9.4
							5.	10.4	15.7												
							10.	10.2	20.6	9.40		7.8	1.078	.494	.53	3.82	11.43		199.	.038	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°22.00′	88°47.20′	2/20/73	10:15	6.0	13.3	4.1	0.	11.1	13.4	10.70											
							5.	10.5	19.4	9.80		7.8	.281	.000		1.82	11.03		196.	.042	
30°25.30′	88°54.75′	2/20/73	9:38	6.0	15.5	2.0	0.	11.1	3.7												
30°25.28′	88°55.77′	2/20/73	9:42	8.0	15.1	3.0	0.	11.1	2.4												
30°25.30′	88°56.90′	2/20/73	9:47	16.0	15.9	2.0	0.	11.6	1.2												
30°25.37′	88°57.88′	2/20/73	9:53	2.0	16.3	2.0	0.	11.7	1.4												
30°25.30′	88°58.82′	2/20/73	10:02	5.0	18.9	3.0	0.	10.3	.4												
30°25.40′	88°59.42′	2/20/73	10:07	4.0	18.0	2.0	0.	11.8	.9												
30°23.30′	88°47.50′	2/20/73	9:15	3.0	12.5	3.0	0.	12.0	14.4												
30°23.35′	88°49.50′	2/20/73	9:28	16.0	13.5	3.0	0.	11.8	14.4												
							5.	11.5	15.5												
							10.	11.0	17.2												
							15.	10.1	21.7												
30°23.96′	88°50.37′	2/20/73	9:50	15.0	13.8	2.5	0.	11.5	6.7												
							5.	10.5	12.2												
							10.	10.4	17.2												
							15.	10.0	22.2												
30°24.65′	88°51.16′	2/20/73	10:04	11.0	13.4	2.5	0.	10.5	7.2												
							5.	10.4	15.5												
							10.	10.2	18.9												
30°25.25′	88°52.12′	2/20/73	10:15	4.9	14.9	2.0	0.	11.1	5.6												
30°25.26′	88°53.52′	2/20/73	10:25	19.8	15.2	2.0	0.	11.1	4.4												
							5.	11.0	5.6												
							10.	11.0	10.5												
							15.	10.7	12.2												
							19.	10.4	16.7												
30°21.78′	88°47.56′	2/20/73	9:35	10.0	14.1	3.8	0.	10.6	12.0												
							5.	10.4	15.7												
							10.	10.2	20.6												
30°22.56′	88°48.50′	2/20/73	11:25	10.8	14.5	3.3	0.	12.0	10.8												
							5.	10.7	15.8												
							10.	10.8	16.0												
30°23.36′	88°50.64′	2/20/73	11:40	7.0	14.3	3.4	0.	11.3	8.5												
							5.	10.5	13.6												
30°23.37′	88°52.00′	2/20/73	11:55	13.0	13.5	4.0	0.	11.4	13.7												
							5.	11.1	14.1												
							10.	10.4	17.7												
30°23.44′	88°53.00′	2/20/73	12:00	19.5	15.8	4.1	0.	11.5	13.4												
							5.	11.0	14.3												
							10.	10.5	16.5												
							15.	10.4	17.1												
30°23.52′	88°54.08′	2/20/73	12:40	8.5	15.3	3.8	0.	11.9	13.6												
							5.	11.4	13.7												

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.24′	88°59.90′	3/ 8/73		6.0	22.9	1.0	0.	20.0	.1	7.20	20	6.9	5.324	.225	1.50	2.22	.22	19.33	8.	.318	6.2
							5.	20.1	.0	7.20											
30°24.91′	88°59.95′	3/ 8/73		18.2	21.1		0.	19.8	.0	6.80	21	6.9	7.940	.225	1.08	2.11	.20	18.40	7.	.305	7.7
							5.	19.8	.0												
							10.	19.0	.1												
							15.	18.3	.5	6.40		7.0	16.993	.250	2.40	3.11	.35		11.	.260	
30°24.96′	88°58.83′	3/ 8/73		14.5	20.1	1.4	0.	19.2	.2	7.70	17	7.0	3.145	.025	.78	1.78	.31	17.60	8.	.240	17.3
							5.	19.3	.2												
							10.	19.2	.4	7.40		7.1	9.514	.025	.72	1.44	.30		8.	.221	
30°25.15′	88°58.82′	3/ 8/73		22.5	20.5	1.2	0.	19.4	.0	7.80	18	7.0	14.934	.150	.66	1.22	.25	15.27	7.	.175	7.1
							5.	19.3	.2												
							10.	19.4	.2												
							15.	19.4	.3												
							20.	19.5	.6	7.80		7.1	7.514	.025	.72	1.56	.36		8.	.214	
30°25.50′	88°58.77′	3/ 8/73		13.0	21.0	1.5	0.	19.3	.0	7.80	17	7.0	27.194	.200	.60	1.28	.18	16.60	6.	.145	5.7
							5.	19.4	.2												
							10.	19.3	.2	7.60		7.0	3.902	.200	1.32	1.33	.23		7.	.177	
30°25.39′	88°53.75′	3/ 8/73		26.0	20.4	2.0	0.	19.0	3.2	8.30	10	7.4	2.572	.175	1.14	2.06	.72	14.73	32.	.081	26.3
							5.	18.9	4.0												
							10.	18.9	5.2												
							15.	18.8	5.8												
							20.	18.6	6.7												
							25.	18.6	6.7	6.90		7.5	10.056	.200	1.44	2.17	3.43		81.	.103	
30°25.08′	88°53.75′	3/ 8/73	13:34	5.2	21.3		0.	18.9	4.0	9.30	10	7.5	8.534	.150	1.80	2.89	2.11	19.67	50.	.091	96.9
30°24.84′	88°53.75′	3/ 8/73	13:25	6.4	21.0	2.2	0.	19.1	2.2	8.70	12	7.4	4.900	.250	2.04	2.78	1.24	21.67	28.	.119	13.8
							5.	18.5	5.9	7.70		7.6	4.124	.225	1.14	2.06	3.07		70.	.075	
30°24.45′	88°51.61′	3/ 8/73	12:16	9.7	21.2	2.0	0.	18.9	4.4	9.20	9	7.6	2.748	.175	1.14	1.67	2.38	12.53	68.	.083	9.7
							5.	18.8	10.6	6.90		7.7	5.621	.075	1.32	1.67	5.68		132.	.085	
30°25.13′	88°51.22′	3/ 8/73	12:48	10.6	20.6	3.5	0.	19.4	7.3	10.20	6	7.7	.828	.100	1.08	1.33	3.92	16.87	91.	.056	32.2
							5.	18.9	8.0	10.40		7.8	1.211	.150	1.02	1.56	5.07		128.	.071	
30°23.44′	88°53.00′	3/ 8/73	11:16	17.0	20.9	2.7	0.	19.2	7.6	9.80	6	7.8	5.604	.125	.78	1.56	3.83	12.87	87.	.071	26.6
							5.	19.0	8.2												
							10.	18.8	15.1												
							15.	18.9	15.6	8.60		8.1	1.737	.050	.72	1.50	8.47		194.	.138	
30°21.50′	88°48.27′	3/ 8/73	10:37	5.0	20.0	3.3	0.	18.5	13.0	9.40	5	8.2	2.544	.075	.78	1.56	6.95	17.20	161.	.069	2.6
30°21.78′	88°47.56′	3/ 8/73	10:25	14.4	20.1	3.1	0.	19.0	12.8	8.80	5	8.2	12.083	.075	.66	1.28	6.91	12.53	164.	.032	13.6
							5.	18.9	13.5												
							10.	18.7	15.2	6.80		8.2	1.552	.050	1.14	1.17	10.27		235.	.074	
30°22.00′	88°47.20′	3/ 8/73	9:45	6.0	20.6	2.5	0.	19.1	11.2	7.80	5	8.3	2.982	.100	1.62	1.78	6.00	12.47	147.	.042	12.6
							5.	19.1	13.3	8.00		8.2	2.797	.100	1.20	1.39	6.61		156.	.058	
30°24.91′	88°59.95′	3/21/73	10:34	13.2	16.7	1.5	0.	18.4	.1	8.20	17	6.7	4.565	.247	.80	1.98	.21	15.05	4.	.721	8.3
							5.	18.4	.1												
							10.	18.5	.1	8.20		6.7	4.267	.000	1.10	2.43	.12		3.	.404	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.96′	88°58.83′	3/21/73	10:47	13.9	15.5	1.5	0.	17.8	.1	8.30	12	6.7	1.459	.148	.24	.70	.09	9.25	3.	.443	4.5
							5.	17.0	.1												
							10.	16.9	.1	8.20		6.6	1.920	.000	.12	.89	.11		3.	.640	
30°25.15′	88°58.82′	3/21/73	10:53	17.7	15.9	1.4	0.	17.5	.1	8.00	12	6.5	1.210	.074	.06	1.09	.08	8.40	3.	.639	4.3
							5.	17.5	.1												
							10.	17.5	.1												
							15.	17.5	.1	8.10		6.5	1.440	.000	.18	1.47	.09		2.	.679	
30°25.50′	88°58.77′	3/21/73	11:00	8.1	16.6	1.5	0.	17.3	.0	8.10	10	6.4	.987	.000	.00	.51	.08	9.75	2.	.555	3.5
							5.	17.2	.0	8.00		6.3	.747	.000	.06	.83	.07		2.	.410	
30°25.39′	88°53.75′	3/21/73	13:00	20.4	18.8	1.7	0.	19.0	.4	8.20	13	6.3	3.803	.123	.98	1.91	.43	15.15	6.	.463	10.8
							5.	18.5	.5												
							10.	18.3	.7												
							15.	18.3	.8												
							20.	18.3	.8	7.80		6.4	3.955	.272	1.47	3.13	.38		10.	.586	
30°25.08′	88°53.75′	3/21/73	13:05	4.0	17.0	1.0	0.	18.4	.1	9.30	18	6.6	3.079	.099	1.16	2.68	.26	23.95	6.	.828	12.4
30°24.84′	88°53.75′	3/21/73	13:20	5.0	15.5	1.5	0.	19.4	.0	8.30	17	6.6	3.420	.049	.86	1.85	.21	23.55	5.	.705	10.5
30°24.45′	88°51.61′	3/21/73	12:40	8.0	16.9	1.8	0.	18.2	1.3	9.30	12	6.6	4.661	.370	1.47	3.06	.77	17.10	30.	.125	21.3
							5.	18.2	1.3	8.70		6.7	4.755	.272	1.90	3.32	.77		28.	.620	
30°25.13′	88°51.22′	3/21/73	12:10	9.5	15.9	2.0	0.	18.0	1.7	9.40	10	6.8	4.692	.395	1.04	2.94	1.07	16.25	31.	.170	27.8
							5.	17.9	1.8	9.30		6.9	3.858	.346	1.35	3.13	1.11		43.	.934	
30°23.44′	88°53.00′	3/21/73	11:20	8.5	15.9	2.0	0.	17.4	9.5	9.10	10	6.9	.513	.049	.49	1.47	5.41	20.70	125.	.085	14.8
							5.	17.6	12.0	6.50		7.1	.623	.074	.98	3.13	8.44		168.	.072	
30°21.50′	88°48.27′	3/21/73	10:35	3.5	12.5	1.0	0.	16.8	5.9	9.40	19	7.4	.349	.025	.37	1.28	3.41	39.60	66.	.070	24.9
30°21.78′	88°47.56′	3/21/73	10:10	12.0	14.3	2.5	0.	17.2	11.1	9.30	8	7.5	.456	.025	.43	1.79	4.02	11.20	94.	.136	12.7
							5.	17.1	7.5												
							10.	18.2	18.8	6.20		7.5	.825	.198	.67	1.85	10.36		231.	.114	
30°22.00′	88°47.20′	3/21/73	9:20	5.0	12.0	1.8	0.	17.3	6.7	8.60	15	7.7	.383	.074	.73	2.29	3.79	25.70	75.	.052	13.4
30°25.24′	88°59.90′	4/ 4/73	10:09	3.8	14.6	1.5	0.	18.3	.1	8.10	15	6.3	1.850	.000	.11	.96	.04	11.45	3.	.442	4.0
30°24.91′	88°59.95′	4/ 4/73	10:15	15.0	15.5	.8	0.	17.9	.1	7.70	34	6.3	9.508	.123	.72	2.52	.07	34.80	6.	.486	6.3
							5.	17.9	.1												
							10.	17.9	.1												
							15.	17.9	.1	7.70		6.3	7.954	.469	2.17	2.88	.06		5.	.488	
30°24.96′	88°58.83′	4/ 4/73	10:26	17.0	14.7	1.5	0.	18.8	.1	7.80	18	6.0	2.700	.000	.44	.90	.05	14.60	3.	.473	4.5
							5.	18.8	.1												
							10.	18.4	.3												
							15.	18.7	.1	7.80		6.4	2.925	.000	.50	1.38	.07		2.	.466	
30°25.15′	88°58.82′	4/ 4/73	10:31	18.5	14.6	1.6	0.	18.6	.1	9.40	17	6.4	2.409	.148	.50	1.20	.06	15.75	3.	.557	3.9
							5.	18.6	.1												
							10.	18.5	.1												
							15.	18.5	.1	9.40		6.4	2.625	.000	.56	1.20	.05		3.	.445	
30°25.50′	88°58.77′	4/ 4/73	10:39	10.5	14.7	1.3	0.	18.4	.1	9.40	15	6.5	1.900	.000	.11	.60	.05	15.40	2.	.560	4.1
							5.	18.4	.1												
							10.	18.4	.1	8.60		6.7	1.825	.000	.11	.90	.07		4.	.173	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.39′	88°53.75′	4/ 4/73	12:10	19.5	16.8	1.3	0.	19.2	.2	7.80	19	6.8	3.725	.000	.67	1.26	.12	19.15	4.	.483	6.2
							5.	19.2	.2												
							10.	19.0	.2												
							15.	19.1	.2	7.80		6.9	3.550	.000	.67	.96	.10		6.	.429	
30°25.08′	88°53.75′	4/ 4/73	11:40	5.0	17.9	1.3	0.	19.1	.0	8.30	21	7.1	9.900	.000	.61	1.56	.11	21.45	4.	.507	6.4
30°24.84′	88°53.75′	4/ 4/73	12:10	5.5	19.4	1.0	0.	19.3	.0	8.40	23	7.3	3.250	.000	.61	1.26	.08	25.20	4.	.417	8.3
							5.	19.3	.0	8.50		7.5	3.475	.000	.67	1.26	.03		3.	.103	
30°24.45′	88°51.61′	4/ 4/73	12:30	9.5		1.5	0.	19.3	.8	8.40	18	7.4	3.764	.222	1.00	1.68	.52	21.15	17.	.350	10.2
							5.	19.2	1.3	8.20		7.4	3.361	.173	.78	1.80	.73		22.	.153	
30°25.13′	88°51.22′	4/ 4/73	12:45	10.5	18.2	1.3	0.	19.3	1.1	8.30	20	7.6	3.334	.148	.67	1.80	.66	27.10	23.	.340	9.2
							5.	19.2	1.0												
							10.	19.2	1.3	8.40		7.8	2.926	.025	.67	1.80	.67		18.	.077	
30°23.44′	88°53.00′	4/ 4/73	10:10	8.5	15.8	.8	0.	18.5	7.5	8.80	42	7.6	2.764	.222	.72	1.74	4.33	87.00	40.	.573	19.3
							5.	18.5	7.5	8.80		7.8	2.792	.272	.22	1.56	4.38		109.	.072	
30°21.50′	88°48.27′	4/ 4/73	15:10	4.5	19.3	.5	0.	19.4	3.2	8.90	40	7.3	3.720	.321	.50	1.62	1.81	68.30	45.	.064	22.9
30°21.78′	88°47.56′	4/ 4/73	14:40	13.0	18.2	1.3	0.	19.1	4.8	8.90	19	7.3	3.219	.296	.22	1.14	2.71	27.50	64.	.132	17.2
							5.	19.0	5.0	5.90		6.9	2.287	.198	.94		10.46		224.	.191	
30°22.00′	88°47.20′	4/ 4/73	14:05	6.0	19.2	.8	0.	19.3	3.9	8.90	31	6.2	2.825	.395	.56	1.68	2.16	55.00	53.	.432	20.4
							5.	19.3	3.6	8.70		6.4	3.312	.198	.56	1.08	2.14		61.	.064	
30°25.30′	88°54.75′	4/ 4/73	9:34	8.0	16.1	1.1	0.	19.2	.1												
							5.	18.5	.1												
30°25.28′	88°55.77′	4/ 4/73	9:41	5.5	15.0	.9	0.	18.9	.1												
							5.	19.0	.1												
30°25.30′	88°56.90′	4/ 4/73	9:48	20.1	15.3	1.3	0.	19.0	.1												
							5.	19.0	.1												
							10.	19.0	.1												
							15.	19.0	.1												
							20.	19.0	.1												
30°25.37′	88°57.88′	4/ 4/73	9:55	3.0	15.5	1.3	0.	18.6	.1												
30°25.30′	88°58.82′	4/ 4/73	10:02	5.0	14.6	.5	0.	18.3	.1												
30°25.40′	88°59.42′	4/ 4/73	10:07	5.1	15.0	1.1	0.	18.7	.1												
30°23.30′	88°47.50′	4/ 4/73	9:00	6.0	16.5	1.0	0.	18.7	2.3												
							5.	18.6	2.9												
30°23.35′	88°49.50′	4/ 4/73	9:10	16.0	14.1	1.0	0.	18.6	2.5												
							5.	18.6	2.6												
30°23.96′	88°50.37′	4/ 4/73	11:00	15.0	16.4	1.2	0.	18.6	2.5												
							5.	18.8	2.4												
							10.	18.7	2.7												
30°24.65′	88°51.16′	4/ 4/73	11:15	8.0	16.3	1.5	0.	18.9	1.5												
							5.	18.9	1.5												
30°25.25′	88°52.12′	4/ 4/73	11:20	8.0	16.4	1.2	0.	18.9	.5												
							5.	18.9	.5												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.26′	88°53.52′	4/ 4/73	9:26	19.8	15.9	1.3	0.	19.5	.4												
							5.	19.5	.2												
							10.	19.4	.1												
							15.	19.4	.1												
30°22.56′	88°48.50′	4/ 4/73	9:20	12.0	13.9	1.5	0.	18.8	3.7												
30°23.36′	88°50.64′	4/ 4/73	9:40	16.0	13.5	1.5	0.	18.3	1.5												
30°23.37′	88°52.00′	4/ 4/73	9:45	8.5	15.1	1.2	0.	18.9	7.3												
							5.	18.8	7.3												
30°23.52′	88°54.08′	4/ 4/73	10:00	7.5	14.6		0.	18.6	7.4												
							5.	18.7	7.6												
30°25.24′	88°59.90′	4/23/73	13:30	4.2	24.1	2.0	0.	24.7	.0	7.30	18	6.1	3.214	.075	.41	1.00	.05	20.60	3.	.160	7.4
30°24.91′	88°59.95′	4/23/73	13:50	11.0	24.5	2.1	0.	25.2	.0	7.40	15	4.6	4.292	.050	.06	1.22	.05	12.07	2.	.470	6.6
							5.	25.0	.0												
							10.	24.1	.0	7.20		5.4	2.463	.000	.12	1.50	.05		3.	.204	
30°24.96′	88°58.83′	4/23/73	15:45	21.0	25.5	2.0	0.	24.5	.0	7.30	14	5.7	2.438	.150	.12	4.83	.05	11.93	3.	.189	5.6
							5.	24.2	.0												
							10.	24.2	.0												
							15.	24.1	.0												
							20.	24.1	.0	7.10		5.8	2.128	.075	.12	.94	.06		2.	.172	
30°25.15′	88°58.82′	4/23/73	15:20	18.0	24.3	2.0	0.	25.0	.0	7.80	15	5.7	1.965	.000	.12	3.56	.04	7.60	3.	.198	6.1
							5.	24.5	.0												
							10.	24.2	.0												
							15.	24.2	.0	7.10		5.8	.850	.000	.12	1.50	.08		4.	.240	
30°25.50′	88°58.77′	4/23/73	15:00	3.0	25.1	2.0	0.	25.2	.0	7.40	15	5.7	1.206	.150	.00	1.00	.03	12.87	4.	.394	6.1
30°25.39′	88°53.75′	4/23/73	12:50	27.0	24.6	1.6	0.	23.5	.0	7.50	21	5.8	2.598	.075	.76	1.56	.14	37.07	6.	.222	7.5
							5.	23.5	.0												
							10.	23.2	.1												
							15.	23.3	.0												
							20.	23.1	.0												
							25.	23.1	.0	7.50		6.0	1.899	.100	.82	1.17	.12		6.	.234	
30°25.08′	88°53.75′	4/23/73	12:25	5.7	23.4	1.5	0.	23.7	.0	7.80	21	6.1	2.709	.050	.88	1.28	.10	23.73	6.	.127	7.7
30°24.84′	88°53.75′	4/23/73	12:05	6.2	24.3	1.7	0.	23.6	.0	7.90	20	6.1	1.916	.175	.94	1.22	.11	18.27	5.	.108	6.2
							5.	23.2	.0	7.40		6.2	2.210	.050	.76	1.44	.10		5.	.175	
30°24.45′	88°51.61′	4/23/73	11:30	9.5	24.0	1.5	0.	23.0	.0	8.00	32	6.3	2.708	.175	.94	1.78	.14	28.33	5.	.162	8.1
							5.	22.6	.2	7.70		6.3	2.334	.075	1.00	1.72	.14		5.	.166	
30°25.13′	88°51.22′	4/23/73	11:45	12.0	23.7	1.5	0.	23.4	.0	7.90	29	6.3	2.784	.125	.65	1.94	.16	34.07	5.	.203	8.9
							5.	23.3	.0												
							10.	23.2	.0	7.60		6.3	2.004	.175	.65	2.33	.12		5.	.149	
30°23.44′	88°53.00′	4/23/73	10:50	10.0	23.0	1.1	0.	23.0	.9	8.20	48	6.3	5.203	.450	1.18	2.17	.54	55.40	17.	.206	19.0
							5.	22.9	1.4												
							10.	22.7	2.0	7.60		6.5	5.630	.525	2.00	2.67	1.19		45.	.049	
30°21.50′	88°48.27′	4/23/73	10:15	5.0	24.5	1.2	0.	22.4	.6	8.20	50	6.7	6.125	.375	.88	2.00	.41	112.00	15.	.390	13.1

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°21.78′	88°47.56′	4/23/73	9:45	13.0	23.4	1.3	0.	22.8	1.9	8.20	31	6.7	6.940	.350	1.29	2.44	1.20	49.07	34.	.224	14.5
							5.	22.6	3.0												
							10.	22.3	3.3	8.30		6.8	5.767	.350	1.41	2.44	1.85		54.	.366	
30°22.00′	88°47.20′	4/23/73	9:15	6.0	24.0	1.0	0.	22.7	.0	7.80	56	6.9	5.099	.250	.65	2.06	.11	94.87	8.	.503	11.9
							5.	22.6	.0	7.60		7.0	5.670	.175	.53	2.11	.07		7.	.623	
30°21.50′	88°48.27′	4/24/73	9:40	5.0	26.0	1.0	0.	23.8	.1												20.9
30°21.78′	88°47.56′	4/23/73	9:35	16.0	26.4	1.0	0.	23.4	2.0												
30°22.00′	88°47.20′	4/23/73	9:30	6.0	24.7	.8	0.	23.1	.4												22.8
30°23.30′	88°47.50′	4/23/73	9:05	4.0	27.0	1.0	0.	23.9	.1												
30°23.35′	88°49.50′	4/23/73	9:17	18.0	27.4	1.2	0.	24.0	.1												
30°22.56′	88°48.50′	4/23/73	9:25	13.0	26.5	1.0	0.	23.4	.5												
30°24.45′	88°51.61′	5/15/73	14:48	9.5	26.6	1.3	0.	24.2	2.3	10.20	13	7.7	.272	.150	.53	2.51	1.28	28.93	31.	.069	45.3
							5.	23.1	4.8	6.40		7.6	1.672	.425	.29	1.96	3.12		73.	.089	
30°25.13′	88°51.22′	5/15/73	14:00	10.6	28.4	1.4	0.	24.3	4.6	10.10	12	7.7	.919	.125	.29	2.24	2.44	29.15	57.	.029	38.2
							5.	22.7	7.1												
							10.	23.1	5.7	5.80		7.7	1.527	.250	.47	2.24	4.44		104.	.032	
30°23.44′	88°53.00′	5/15/73	13:06	9.2	27.3	1.8	0.	22.4	11.7	8.90	8	7.5	11.326	1.300	.47	2.62	6.39	26.40	151.	.071	30.7
							5.	21.8	13.8	5.80		7.7	12.018	1.300	.47	2.35	7.17		160.	.009	
30°21.50′	88°48.27′	5/15/73	12:26	4.1	25.9	1.6	0.	22.6	8.5	10.40	10	7.3	.484	.000	.41	1.04	4.74	29.47	109.	.043	29.3
30°21.78′	88°47.56′	5/15/73	12:00	12.8	26.5	2.8	0.	22.1	8.9	9.80	5	8.0	1.481	.225	.12	1.20	4.96	21.80	113.	.010	23.9
							5.	22.3	16.2												
							10.	24.6	9.5	4.00		7.7	10.600	.825	.47	1.80	8.26		180.	.058	
30°22.00′	88°47.20′	5/15/73	11:05	5.6	24.8	3.2	0.	22.1	8.3	9.60	3	7.9	4.401	.175	.12	1.42	4.61	19.47	106.	.018	15.2
							5.	23.1	12.1	7.50		7.3	2.259	.900	.47	2.13	6.52		140.	.073	
30°25.24′	88°59.90′	5/15/73	10:54	4.0	20.8	2.0	0.	23.6	.0												18.4
30°24.91′	88°59.95′	5/15/73	11:00	15.0	21.5	2.0	0.	24.0	.0												19.9
30°24.96′	88°58.83′	5/15/73	10:40	22.5	23.3	2.0	0.	24.5	.0												28.9
30°25.15′	88°58.82′	5/15/73	10:36	17.0	23.3	2.0	0.	24.5	.0												25.8
30°25.50′	88°58.77′	5/15/73	10:30	8.0	23.3	2.0	0.	24.7	.0												23.2
30°25.39′	88°53.75′	5/15/73	12:14	27.5	21.0	1.8	0.	23.9	.6												41.2
30°25.08′	88°53.75′	5/15/73	12:07	5.0	20.1	1.6	0.	24.0	.6												35.7
30°24.84′	88°53.75′	5/15/73	12:04	5.5	21.5	1.7	0.	24.1	.0												48.7
30°24.45′	88°51.61′	5/15/73	13:13	9.5	21.5	1.6	0.	24.0	2.2												45.3
30°25.13′	88°51.22′	5/15/73	12:47	10.5	21.1	2.1	0.	24.0	4.4												38.2
30°25.30′	88°54.75′	5/15/73	11:56	8.0	20.4	1.3	0.	23.6	.0												
30°25.28′	88°55.77′	5/15/73	11:50	6.5	20.5	1.8	0.	24.2	.0												
30°25.30′	88°56.90′	5/15/73	11:44	20.5	21.0	1.5	0.	24.0	.0												
30°25.37′	88°57.88′	5/15/73	11:33	5.5	21.6	1.8	0.	25.1	.0												
30°25.40′	88°59.42′	5/15/73	10:46	5.0	23.3	2.0	0.	25.0	.0												
30°23.30′	88°47.50′	5/15/73	10:40	7.5	22.8	2.0	0.	23.3	7.8												
							5.	23.1	8.1												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°23.96′	88°50.37′	5/15/73	13:46	17.0	26.0	1.4	0.	23.1	6.7												
							5.	22.0	11.4												
							10.	22.2	12.2												
							15.	22.2	12.9												
30°24.65′	88°51.16′	5/15/73	13:16	9.5	22.5	2.1	0.	24.0	3.9												
30°25.25′	88°52.12′	5/15/73	12:24	10.5	21.0	1.6	0.	24.0	1.1												
30°25.26′	88°53.52′	5/15/73	12:19	20.5	21.0	1.7	0.	23.9	.6												
30°21.78′	88°47.56′	5/15/73	12:00	12.8	26.5	2.8	0.	22.1	8.9	9.80											
							5.	22.3	16.2												
							10.	24.6	9.5	4.00											
30°23.37′	88°52.00′	5/15/73	13:37	9.9	25.6	1.7	0.	23.7	6.8												
							5.	22.2	13.6												
30°23.44′	88°53.00′	5/15/73	13:06	9.2	27.3	1.8	0.	22.4	11.7												
							5.	21.8	13.8												
30°23.52′	88°54.08′	5/15/73	12:59	6.0	27.0	1.8	0.	22.9	12.8												
							5.	22.4	15.4												
30°25.24′	88°59.90′	5/22/73	9:35	3.0	26.0	1.8	0.	27.5	.0	7.20	13	6.7	1.608	.049	.78	1.16	.26	20.60	6.	.231	
30°24.91′	88°59.95′	5/22/73	10:10	11.3	28.5	1.5	0.	27.8	.4	8.30	14	6.7	1.126	.024	.33	1.95	.32	16.47	10.	.220	
							5.	26.3	.4												
							10.	26.3	1.0	6.90		6.8	2.511	.024	.59	2.68	.61		15.	.091	
30°24.96′	88°58.83′	5/22/73	10:30	23.0	27.0	1.7	0.	26.8	1.6	8.00	10	6.9	1.318	.000	.91	3.58	.91	18.73	22.	.126	
							5.	26.0	1.8												
							10.	25.7	1.9												
							15.	25.8	2.0												
							20.	26.7	1.8	7.40		7.0	.068	.000	1.17	2.95	1.06		26.	.056	
30°25.15′	88°58.82′	5/22/73	11:00	7.0	27.0	1.5	0.	24.5	1.5	7.90	11	7.1	.303	.073	.78	2.53	.87	25.40	21.	.125	
							5.	25.8	2.0	7.30		7.1	.054	.049	.91	2.37	.98		25.	.068	
30°25.50′	88°58.77′	5/22/73	11:10	1.1	26.5	1.1	0.	27.4	1.2	7.80	13	7.2	.336	.073	.46	2.16	.74	20.47	18.	.180	
							5.	26.8	1.3												
							10.	26.8	1.3	7.50		7.2	.120	.122	.85	2.05	.76		20.	.112	
30°25.39′	88°53.75′	5/22/73	13:15	26.0	29.0	1.4	0.	26.5	3.9	7.90	10	7.2	2.080	.122	.46	2.00	2.03	25.93	50.	.109	
							5.	26.0	4.0												
							10.	25.4	4.3												
							15.	25.4	4.4												
							20.	25.5	2.9												
30°25.08′	88°53.75′	5/22/73	13:20	4.8	28.8	1.2	0.	26.8	4.4	7.80	28	7.5	.674	.073	.78	2.11	2.36	61.87	47.	.162	
30°24.84′	88°53.75′	5/22/73	12:25	5.8	26.6	1.1	0.	26.8	4.0	7.90	13	7.6	.561	.049	.65	2.11	2.23	32.15	55.	.058	
30°25.30′	88°54.75′	5/22/73	13:35	8.0	28.0	1.2	0.	27.4	3.2												
30°25.24′	88°59.90′	5/29/73	10:20	3.1	29.5	1.1	0.	28.0	.0	7.70	16	6.9	4.840	.128	.46	1.00	.17	17.47	6.	.180	12.6
30°24.91′	88°59.95′	5/29/73	11:05	15.2	28.8	1.0	0.		.0	7.70	15	7.0	8.712	.179	.20	1.00	.20	12.00	7.	.154	18.0
							5.	27.0	.0												
							10.	27.0	.0												
							15.	27.0	.0	6.70		6.8	5.238	.128	.46	1.32	.32		10.	.150	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.96′	88°58.83′	5/29/73	11:29	21.1	26.1	1.3	0.	27.1	.0	8.20	18	6.7	5.360	.128	.26	1.11	.31	22.67	9.	.116	31.4
							5.	27.3	.0												
							10.	27.3	.2												
							15.	27.3	.2	8.00		6.7	1.765	.077	.46	1.68	.33		10.	.237	
30°25.15′	88°58.82′	5/29/73	11:40	17.1	28.8	1.1	0.	26.9	.0	7.00	16	6.6	3.535	.051	.20	1.05	.20	9.80	6.	.143	16.3
							5.	26.8	.0												
							10.	26.6	.2												
							15.	26.5	.5	7.00		6.7	3.681	.026	.20	1.00	.19		6.	.196	
30°25.50′	88°58.77′	5/29/73	11:58	10.1	27.8	1.4	0.	27.0	.5	7.50	15	6.9	17.917	.000	.13	.84	.20	11.00	6.	.180	12.9
							5.	26.8	.5												
							10.	25.7	.5	7.50		6.9	3.222	.026	.39	.68	.19		6.	.212	
30°25.39′	88°53.75′	5/29/73	14:26	24.0	25.2	1.0	0.	28.0	.0	8.10	18	6.8	4.607	.051	.59	1.37	.28	17.07	9.	.138	24.7
							5.	27.9	.5												
							10.	26.1	.5												
							15.	27.0	.5												
							20.	27.1	.5	8.10		6.9	3.756	.077	.52	1.42	.30		9.	.140	
30°25.08′	88°53.75′	5/29/73	14:25	4.5		1.4	0.	27.5	.0	9.10	18	6.9	2.280	.051	.59	1.32	.39	16.33	11.	.137	30.6
30°24.84′	88°53.75′	5/29/73	13:55	6.0		1.2	0.	27.2	.0	9.00	16	6.9	31.010	1.540	.13	1.37	.36	13.93	11.	.130	28.4
							5.	26.9	.0	7.50		6.9	3.461	.000	.39	1.58	.38		12.	.217	
30°24.45′	88°51.61′	5/29/73	13:50	8.0		1.4	0.	26.8	.0	8.60	16	6.8	3.199	.051	.46	2.42	.86	20.13	23.	.093	48.5
							5.	27.0	1.0	7.10		6.9	2.305	.282	.46	2.42	1.11		26.	.190	
30°25.13′	88°51.22′	5/29/73	13:40	9.5		1.6	0.	28.0	.0	8.80	15	7.0	.509	.077	.20	1.68	.90	21.53	28.	.089	39.6
							8.	27.0	1.0	7.70		7.0	.601	.077	.13	1.89	1.23		34.	.080	
30°23.44′	88°53.00′	5/29/73	12:05	14.0		1.5	0.	27.2	5.0	9.60	18	7.0	1.564	.256	.13	2.21	2.85	14.87	71.	.102	53.8
							5.	26.8	5.0												
							10.	26.5	5.0	6.80		7.4	4.492	.462	.07	2.26	3.24		82.	.245	
30°21.50′	88°48.27′	5/29/73	11:00	4.0		1.4	0.	26.2	6.6	7.90	26	7.6	5.050	.487	.65	1.89	3.76	49.60	91.	.068	26.1
30°21.78′	88°47.56′	5/29/73	10:15	13.3		1.4	0.	26.8	6.6	7.80	22	7.8	6.889	.615	.72	2.26	4.66	37.13	100.	.069	26.4
							5.	26.5	6.6												
							10.	26.8	7.5	6.60		7.7	13.193	.846	.07	2.00	4.42		116.	.911	
30°22.00′	88°47.20′	5/29/73	9:30	5.4		1.2	0.	26.2	6.6	7.80	20	7.7	2.300	.513	.52	1.63	4.49	31.80	107.	.075	26.8
							5.	26.5	6.6	7.60		7.7	2.385	.487	1.43	2.00	4.49		113.	.187	
30°25.30′	88°54.75′	5/29/73	13:56	6.0	27.0	1.3	0.	28.0	.5												
30°23.30′	88°47.50′	5/29/73		5.7		1.5	0.	26.0	5.0												
30°23.96′	88°50.37′	5/29/73		12.0		1.6	0.	26.5	5.0												
30°23.37′	88°52.00′	5/29/73		10.5		1.3	0.	27.5	4.0												
30°23.52′	88°54.08′	5/29/73		7.2		1.0	0.	27.1	6.6												
30°25.24′	88°59.90′	6/12/73	11:28	4.0	30.1	1.6	0.	33.0	.0												
30°24.91′	88°59.95′	6/12/73	11:33	14.3	30.1	1.6	0.	32.2	.0												
30°24.96′	88°58.83′	6/12/73	11:07	.0	30.0	1.5	0.	30.1	.0												
30°25.15′	88°58.82′	6/12/73	11:12	17.5	30.0	1.5	0.	30.1	.0												
30°25.50′	88°58.77′	6/12/73	11:17	3.0	30.1	1.5	0.	30.9	.0												
30°25.39′	88°53.75′	6/12/73	10:13	26.0	28.4	1.4	0.	28.5	1.0												
30°25.08′	88°53.75′	6/12/73	10:18	5.3	28.4	1.2	0.	28.5	2.5												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°24.84′	88°53.75′	6/12/73	10:21	5.9	28.4	1.2	0.	28.5	2.0												
30°24.45′	88°51.61′	6/12/73	9:45	10.0	28.3	1.5	0.	28.2	5.0												
30°25.13′	88°51.22′	6/12/73	9:51	11.0	27.4	1.6	0.	27.8	5.0												
30°23.44′	88°53.00′	6/12/73	9:04	9.8	27.5	1.5	0.	28.0	7.0												
30°21.50′	88°48.27′	6/12/73	8:34	4.8	27.9	2.1	0.	27.9	10.0												
30°21.78′	88°47.56′	6/12/73	8:27	13.0	27.7	3.0	0.	27.9	10.7												
30°22.00′	88°47.20′	6/12/73	8:23	5.6	27.8	2.5	0.	27.9	12.0												
30°25.30′	88°54.75′	6/12/73	10:28	7.7	29.6	1.5	0.	28.8	1.5												
30°25.28′	88°55.77′	6/12/73	10:43	7.0	29.8	1.3	0.	29.0	1.8												
30°25.30′	88°56.90′	6/12/73	10:52	11.7	29.9	1.7	0.	29.2	.5												
30°25.37′	88°57.88′	6/12/73	10:58	4.0	29.9	2.0	0.	29.7	.5												
30°25.30′	88°58.82′	6/12/73	11:14	6.2	30.0	1.5	0.	30.5	.0												
30°25.40′	88°59.42′	6/12/73	11:23	2.0	30.1	2.0	0.	31.0	.0												
30°23.30′	88°47.50′	6/12/73	7:57	5.0	26.5	1.3	0.	27.1	8.0												
30°23.35′	88°49.50′	6/12/73	8:07	16.8	26.6	2.9	0.	27.2	10.0												
30°23.96′	88°50.37′	6/12/73	9:30	13.5	28.0	1.5	0.	28.0	8.0												
30°24.65′	88°51.16′	6/12/73	9:41	18.4	28.3	1.7	0.	28.1	5.5												
30°25.25′	88°52.12′	6/12/73	10:00	11.0	27.6	1.4	0.	28.1	4.5												
30°25.26′	88°53.52′	6/12/73	10:09	21.6	28.4	1.6	0.	28.5	3.8												
30°22.56′	88°48.50′	6/12/73	8:15	12.5	27.3	3.0	0.	27.9	10.5												
30°23.36′	88°50.64′	6/12/73	8:50	12.8	27.7	2.8	0.	27.9	8.0												
30°23.37′	88°52.00′	6/12/73	8:56	12.0	28.0	1.8	0.	27.9	6.5												
30°23.52′	88°54.08′	6/12/73	9:11	7.5	27.3	2.5	0.	27.2	12.0												
30°25.24′	88°59.90′	6/13/73	11:45	4.5	30.1	2.4	0.	33.6	.2	8.20	6	6.5	1.235	.102	.07	2.32	.12	7.80	6.	.238	
30°24.91′	88°59.95′	6/13/73	11:00	14.0	29.2	2.3	0.	31.7	.3	8.40	5	6.6	1.372	.143	.20	2.71	.21	11.53	6.	.408	
							5.	30.2	.3												
							10.	29.9	.3	6.60		6.7	.361	.122	.68	3.39	.28		8.	.539	
30°24.96′	88°58.83′	6/13/73	13:00	17.0	29.0	2.5	0.	30.9	.7	8.40	6	6.8	.255	.102	.34	3.77	.32	10.87	9.	.171	
							5.	30.4	.8												
							10.	30.0	1.0												
							15.	29.9	.9	6.40		6.8	3.088	.082	.48	5.81	.61		10.	.171	
30°25.15′	88°58.82′	6/13/73	13:15	19.0	29.0	2.3	0.	30.5	.6	7.60	5	6.9	.489	.041	.14	2.90	.34	10.80	10.	.228	
							5.	29.8	.8												
							10.	29.5	.9												
							15.	29.5	.9	6.10		6.9	.844	.857	.55	3.39	.59		12.	.267	
30°25.50′	88°58.77′	6/13/73	13:30	10.5	29.0	2.4	0.	30.1	.5	6.70	8	6.9	.939	.122	.00	2.71	.33	14.07	9.	.179	
							5.	29.6	.5												
							10.	29.9	.5	6.00		6.9	.399	.082	.68	2.61	.32		9.	.161	
30°21.50′	88°48.27′	6/14/73	14:30	3.3	29.0	1.9	0.	30.0	11.0	7.40	11	7.4	.352	.000	.75	3.77	6.33	46.33	138.	.068	
30°21.78′	88°47.56′	6/14/73	8:30	13.5	29.8	3.0	0.	29.6	11.6	7.80	5	7.6	3.007	.061	.68	2.61	6.14	24.27	146.	.059	
							5.	29.4	11.6												
							10.	29.2	11.8	6.00		7.6	.514	.041	.82	3.48	6.53		146.	.795	
30°22.00′	88°47.20′	6/14/73	8:40	5.7	29.8	3.5	0.	29.6	9.3	7.80	5	7.6	.352	.000	.41	4.45	4.97	59.20	127.	.143	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°25.39′	88°53.75′	6/19/73	11:20	26.0	30.0	2.0	0.	31.0	4.0	6.10	9	6.5	.589	.058	.75	4.35	1.74	29.53	33.	.102	
							5.	30.9	3.5												
							10.	30.9	4.0												
							15.	30.8	4.0												
							20.	30.6	4.0												
							26.	31.0	4.0	5.60		6.9	.821	.194	1.30	5.42	2.16		43.	.215	
30°25.08′	88°53.75′	6/19/73	12:45	4.9	30.4	2.0	0.	32.0	2.3	7.70	10	6.9	.265	.155	.68	4.26	1.86	21.80	42.	.104	
30°24.84′	88°53.75′	6/19/73	12:20	6.0	30.4	1.7	0.	31.8	2.0	6.20	12	7.1	.125	.194	.89	6.00	1.75	28.53	39.	.109	
							5.	30.3	4.0	6.20		7.1	.155	.000	2.18	5.03	2.16		44.	.304	
30°24.45′	88°51.61′	6/19/73	10:20	9.8	30.0	2.7	0.	31.0	5.0	7.70	7	7.1	5.902	.000	1.09	4.26	2.45	20.47	55.	.068	
							5.	30.0	7.0												
							10.	30.0	7.0	5.70		7.1	.755	.155	1.50	5.61	3.41		89.	.255	
30°25.13′	88°51.22′	6/19/73	10:50	11.0	30.0	2.7	0.	31.8	5.0	7.90	7	7.3	.055	.078	.34	4.06	3.00	11.93	79.	.063	
							5.	30.1	6.0												
							10.	29.8	8.0	5.20		7.4			.27	5.61	4.00		100.	.818	
30°23.44′	88°53.00′	6/19/73	9:30	8.8	32.6	2.0	0.	29.9	13.0	7.20	10	7.6	.243	.097	.75	4.84	6.51	36.53	160.	.100	
							5.	29.5	12.0	6.20		8.3	1.366	.136	.95	4.84	6.82		140.	.197	
30°25.24′	88°59.90′	6/26/73	9:50	4.0	31.7	2.0	0.	33.6	.0	6.70	9	7.2	1.645	.038	.85	1.20	.35	9.80	11.	.183	9.5
30°24.91′	88°59.95′	6/26/73	10:00	16.0	34.7	2.0	0.	32.5	.0	6.80	10	7.3	.582	.077	.26	1.70	.25	6.73	8.	.109	12.0
							5.	30.3	1.5												
							10.	30.5	6.8												
							15.	30.0	12.0	.50		7.2	.622	.058	2.02	4.91	6.40		152.	.140	
30°24.96′	88°58.83′	6/26/73	11:30	26.0	33.8	2.0	0.	30.2	.5	7.20	8	7.7	1.034	.038	1.24	2.20	.71	12.40	16.	.074	15.8
							5.	29.8	2.0												
							10.	29.9	3.0												
							15.	29.5	4.0												
							20.	29.8	4.0												
							25.	29.8	4.0	5.20		7.4	.560	.077	.72	2.80	1.93		50.	.062	
30°25.15′	88°58.82′	6/26/73	11:10	13.0	32.8	2.5	0.	30.1	2.0	6.70	8	7.5	.685	.038	.78	1.45	1.21	13.20	30.	.068	19.1
							5.	30.0	2.5												
							10.	29.5	4.0												
							13.	29.4	8.0	1.70		7.3	.848	.096	1.83	3.85	4.70		111.	.049	
30°25.50′	88°58.77′	6/26/73	11:00	4.0	31.4	2.0	0.	30.8	1.5	6.70	7	7.5	.898	.135	.65	2.40	1.22	12.60	30.	.078	17.3
30°25.39′	88°53.75′	6/26/73	12:50	25.0	31.4	2.0	0.	31.0	3.0	6.50	6	7.4	.221	.365	.91	1.60	1.58	15.20	37.	.060	21.8
							5.	31.2	5.0												
							10.	29.9	6.5												
							15.	29.9	8.0												
							20.	30.0	12.0												
							25.	30.1	12.0	1.90		7.4	.350	.115	2.22	2.70	6.98		164.	.151	
30°25.08′	88°53.75′	6/26/73	9:35	5.0	30.5	2.2	0.	29.5	4.8	7.50	5	7.6	.971	.058	1.30	1.85	2.76	11.67	69.	.043	20.1
							5.	29.0	8.1	6.80		7.6	.429	.077	1.57	2.70	4.21		99.	.043	
30°24.84′	88°53.75′	6/26/73	9:50	6.0	33.2	3.0	0.	28.9	6.7	7.10	5	7.6	1.641	.135	2.09	2.45	2.76	13.53	67.	.082	17.3
							5.	29.3	9.0	4.80		7.5	.350	.115	1.83	2.65	4.35		101.	.074	

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
30°24.45′	88°51.61′	6/26/73	10:40	9.0	30.0	2.0	0.	30.2	8.3	7.60	6	7.6	1.812	.115	1.57	3.95	4.64	23.80	108.	.077	25.0
							5.	29.2	12.5	3.80		7.6	.695	.096	1.89	3.70	7.00		165.	.241	
30°25.13′	88°51.22′	6/26/73	11:20	10.0	30.7	2.0	0.	30.9	8.8	7.50	5	7.8	5.840	.058	1.37	3.10	5.05	19.13	119.	.060	23.4
							5.	29.3	13.1												
							10.	30.2	12.5	3.70		7.7	.556	.058	1.70	3.65	7.52		176.	.095	
30°23.44′	88°53.00′	6/26/73	11:40	9.0	29.9	2.0	0.	29.9	13.5	7.50	5	8.1	.706	.038	.59	3.35	7.75	31.53	174.	.078	28.9
							5.	29.2	16.0												
							9.	29.0	17.7	6.10		8.2	.462	.019	.91	4.45	9.88		229.	.104	
30°21.50′	88°48.27′	6/26/73	12:15	4.0	29.6	2.0	0.	29.9	16.0	7.40	5	8.3	.459	.000	.72	5.25	7.79	22.33	178.	.064	17.3
30°21.78′	88°47.56′	6/26/73	13:00	12.0	30.8	3.0	0.	30.8	14.0	7.50	5	8.2	.699	.000	.78	5.20	7.93	22.27	184.	.061	24.6
							5.	29.4	17.7												
							10.	29.1	18.0	3.40		8.1	.979	.096	1.11	5.70	10.24		233.	.432	
30°22.00′	88°47.20′	6/26/73	13:15	5.0	29.9	2.5	0.	30.9	15.9	7.10	6	8.2	.506	.019	1.04	3.00	8.63	27.93	214.	.080	24.5
							5.	30.8	16.3	6.90		8.2	.161	.038	1.11	10.30	9.17		213.	.083	
30°25.30′	88°54.75′	6/26/73	8:45	6.2	29.6	3.0	0.	29.0	2.0												
							5.	29.2	5.5												
30°25.28′	88°55.77′	6/26/73	8:55	6.0	29.6	2.0	0.	28.4	1.5												
							5.	28.9	5.0												
30°25.30′	88°56.90′	6/26/73	9:05	22.0	30.4	2.0	0.	29.8	2.0												
							5.	29.7	4.0												
							10.	29.8	5.0												
							15.	30.0	8.0												
							20.	29.7	10.0												
30°25.37′	88°57.88′	6/26/73	9:20	5.0	33.5	2.0	0.	29.6	2.0												
30°25.30′	88°58.82′	6/26/73	9:25	5.0	31.7	2.0	0.	29.9	2.0												
30°25.40′	88°59.42′	6/26/73	9:30	6.0	32.5	2.0	0.	30.5	.0												
							5.	29.9	3.0												
30°23.30′	88°47.50′	6/26/73	8:00	4.0	27.2	2.0	0.	28.9	10.0												
30°23.35′	88°49.50′	6/26/73	8:10	22.0	29.7	2.0	0.	28.8	13.1												
							5.	28.9	17.2												
							10.	29.3	18.6												
							15.	29.5	18.6												
							20.	29.5	18.7												
30°23.96′	88°50.37′	6/26/73	9:10	15.6	28.5	3.0	0.	29.2	11.8												
							5.	29.2	15.8												
							10.	29.5	17.7												
							15.	29.5	16.9												
30°24.65′	88°51.16′	6/26/73	9:20	12.0	29.4	2.0	0.	29.3	12.3												
							5.	29.0	14.1												
							10.	29.1	14.8												
30°25.25′	88°52.12′	6/26/73	9:30	7.0	30.0	2.5	0.	29.2	7.5												
							5.	29.1	12.2												

GULF COAST RESEARCH LABORATORY

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LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
30°25.26′	88°53.52′	6/26/73	8:30	22.0	29.3	2.0	0.	29.9	9.0												
							5.	29.5	8.0												
							10.	29.5	10.5												
							15.	29.9	12.0												
							20.	29.8	12.0												
30°21.78′	88°47.56′	6/26/73	8:25	12.0	28.8	2.0	0.	28.6	16.3												
							5.	28.4	18.2												
							10.	28.9	19.5												
30°22.56′	88°48.50′	6/26/73	8:20	12.0	28.8	2.3	0.	28.7	16.2												
							5.	28.8	18.6												
							10.	28.8	18.6												
30°23.36′	88°50.64′	6/26/73	8:40	6.0	28.8	3.0	0.	29.0	12.9												
							5.	29.3	16.9												
30°23.37′	88°52.00′	6/26/73	8:45	11.0	28.8	3.0	0.	28.4	12.8												
							5.	29.0	18.0												
							10.	29.0	18.2												
30°23.44′	88°53.00′	6/26/73	8:50	10.5	28.6	2.0	0.	28.1	12.8												
							5.	28.9	18.3												
							10.	28.7	18.3												
30°23.52′	88°54.08′	6/26/73	9:00	7.4	29.5	2.5	0.	29.3	18.3												
							5.	28.7	18.7												
30°25.39′	88°53.75′	7/10/73	12:50	26.0	32.1	3.0	0.	32.0	6.3	7.00	5	7.2	.415	.127	.67	1.94	3.68	14.27	85.	.065	19.0
							5.	30.9	8.9												
							10.	30.7	12.7												
							15.	30.9	13.4												
							20.	31.5	12.0												
							25.	30.5	13.6	2.80		8.3	2.184	.382	1.80	3.31	8.14		191.	.974	
30°24.45′	88°51.61′	7/10/73	11:47	8.0	32.2	2.0	0.	30.8	9.0	6.80	6	8.4	9.776	.236	.93	2.00	5.10	16.47	118.	.051	26.2
							5.	30.7	9.4	5.60		8.2	3.232	.291	.93	4.11	6.29		132.	.048	
30°25.13′	88°51.22′	7/10/73	12:24	8.6	32.9	2.4	0.	31.2	10.2	7.20	6	8.2	1.056	.182	1.00	1.94	5.75	20.80	131.	.056	23.8
							5.	30.6	13.5	5.20		8.1	2.335	.200	.93	2.50	7.93		162.	.082	
30°23.44′	88°53.00′	7/10/73	11:04	7.8	32.1	2.8	0.	30.2	18.3	7.60	6	8.2	2.935	.109	1.00	2.38	10.39	33.13	231.	.051	37.4
							5.	29.9	18.3	7.50		8.0	2.765	.218	1.07	2.25	10.30		255.	.074	
30°21.50′	88°48.27′	7/10/73	10:35	4.0	31.4	2.2	0.	30.3	17.3	7.00	9	8.0	3.268	.182	1.07	2.81	19.72	42.80	216.	.067	22.9
30°21.78′	88°47.56′	7/10/73	10:05	11.5	31.4	2.5	0.	30.2	18.1	6.90	8	8.1	2.248	.127	1.13	2.25	10.30	38.67	222.	.066	16.1
							5.	30.2	18.0												
							10.	30.8	16.6	2.60		8.1	3.430	.200	1.27	1.89	10.45		228.		
30°22.00′	88°47.20′	7/10/73	9:22	5.0	31.4	2.6	0.	30.1	17.8	6.40	8	8.3	2.248	.127	.80	2.06	10.14	35.13	230.	.083	18.4
							5.	30.2	17.7	6.40		8.2	2.283	.255	1.00	2.00	10.09		124.	.130	
30°23.96′	88°50.37′	7/10/73	11:40	15.0	31.9	2.8	0.	30.8	13.7												
							5.	30.4	14.4												
							10.	30.4	15.9												
30°21.78′	88°47.56′	7/10/73	9:08	5.3	30.7	1.5	0.	29.7	12.5												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_2 µg-at N/l	NO_3 µg-at N/l	PHOSPHATE ORTHO µg-at P/l	PHOSPHATE TOTAL µg-at P/l	CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m³	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m³
30°23.37′	88°52.00′	7/10/73	11:30	9.0	31.9	2.2	0.	30.5	18.5												
							5.	30.4	18.4												
30°23.52′	88°54.08′	7/10/73	11:00	6.5	31.4	3.0	0.	30.4	18.7												
							5.	29.6	20.2												
30°25.24′	88°59.90′	7/11/73	9:45	3.0	31.6	3.0	0.	35.8	4.2	6.70	7	8.7	2.925	.073	.60	1.63	2.31	17.87	48.	.077	13.0
30°24.91′	88°59.95′	7/11/73	10:21	14.0	32.0	2.5	0.	32.7	4.1	6.80	7	8.7	3.224	.182	1.27	2.63	2.32	19.53	55.	.088	15.6
							5.	31.4	5.9												
							10.	31.8	8.0	5.10		8.6	1.302	.182	1.20	2.94	3.17		73.	.223	
30°24.96′	88°58.83′	7/11/73	10:45	25.4	32.3	2.0	0.	33.0	4.0	7.00	6	8.4	2.547	.236	.47	1.88	2.38	11.27	59.	.081	14.2
							5.	30.9	6.1												
							10.	31.0	8.9												
							15.	30.8	9.6												
							20.	30.8	9.6	3.50		8.1	3.609	.200	1.60		5.24		123.	.125	
30°25.15′	88°58.82′	7/11/73	11:00	18.5	32.0	2.0	0.	31.3	6.2	6.80	6	8.4	2.225	.127	1.33	1.72	3.43	17.13	81.	.073	19.0
							5.	31.2	6.5												
							10.	30.9	9.5												
							15.	31.2	6.3	3.20		8.2	40.290	.164	3.93	3.44	5.26		123.	.091	
30°25.50′	88°58.77′	7/11/73	11:10	5.0	32.2	2.0	0.	31.3	5.8	7.20	5	8.8	3.603	.182	.87	1.56	3.39	10.93	80.	.064	16.5
30°25.30′	88°54.75′	7/11/73	9:15	6.0	30.0	2.0	0.	30.2	7.0												
30°25.08′	88°53.75′	7/11/73	8:35	4.4	28.1	2.0	0.	29.5	9.5	6.00	5	7.0	1.391	.182	1.07	3.00	5.33	20.67	120.	.141	25.8
30°24.84′	88°53.75′	7/11/73	9:07	5.5	29.9	2.0	0.	30.3	8.1	6.20	7	8.3	1.195	.200	1.60	2.17	4.66	5.07	98.	.096	23.2
30°25.24′	88°59.90′	7/24/73	9:57	4.8	30.0	2.8	0.	36.9	7.7	5.90	27	6.7	3.961	.220	.00	1.78	3.83	13.00	92.	.063	
30°24.91′	88°59.95′	7/24/73	10:20	11.0	30.3	2.8	0.	34.0	6.8	5.50	16	6.9	2.235	.073	.00	1.63	3.88	13.47	88.	.050	11.9
							5.	33.8	7.2												
							10.	31.6	11.0	2.30		6.9	1.744	.128	1.53	8.24	6.21		130.	.794	
30°24.96′	88°58.83′	7/24/73	10:38	28.1	30.3	3.0	0.	31.7	7.9	6.60	13	7.0	2.799	.037	.63	2.24	4.50	17.20	100.	.078	18.9
							5.	31.0	9.2												
							10.	31.0	9.4												
							15.	31.4	10.1												
							20.	31.3	10.4	4.40		7.0	1.659	.000	.98	2.85	6.34		135.	.112	
30°25.15′	88°58.82′	7/24/73	11:00	18.0	31.0	3.0	0.	31.3	9.0	5.50	15	7.1	1.659	.073	.49	1.58	5.28	16.93	105.	.048	21.1
							5.	31.3	9.5												
							10.	31.4	10.1												
							15.	31.3	11.4	3.40		7.0	41.975	.055	1.33	2.19	6.82				
30°25.50′	88°58.77′	7/24/73	11:17	8.0	31.0	3.2	0.	31.5	8.3	6.10	10	7.2	4.683	.018	1.26	1.98	4.73	13.87	104.	.045	18.4
							5.	31.3	8.8	5.60		7.2	1.665	.018	.70	3.41	4.94				
30°25.39′	88°53.75′	7/24/73	12:30	17.0	31.0	3.0	0.	31.1	11.8	7.00	14	7.2	1.048	.037	1.05	2.64	6.76	25.67	144.	.043	34.4
							5.	31.2	11.9												
							10.	31.1	13.6												
							15.	31.1	15.2	4.60		7.2	2.154	.037	1.81	3.51	8.52		183.	.237	
30°25.08′	88°53.75′	7/24/73	11:35	4.9	30.8	2.0	0.	31.6	14.2	7.30	12	7.2	1.094	.037	.77	2.34	7.73	31.53	167.	.055	36.7
30°24.84′	88°53.75′	7/24/73	11:30	5.5	30.8	2.5	0.	31.6	13.3	7.00	11	7.3	8.467	.037	.98	4.78	7.25	19.47	157.	.062	29.2
							5.	31.2	13.4	6.90		7.4	2.287	.018	1.60	6.93	7.55		156.	.184	

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE		CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
															ORTHO µg-at P/l	TOTAL µg-at P/l					
30°24.45′	88°51.61′	7/24/73	12:15	9.0	30.2	2.2	0.	31.0	16.5	7.20	16	7.3	1.146	.055	1.40	5.51	8.77	31.33	190.	.070	37.9
							5.	31.0	16.2	5.60		7.4	1.365	.018	1.74	6.16	9.31		193.	.093	
30°25.13′	88°51.22′	7/24/73	12:00	8.0	30.2	2.0	0.	31.3	17.4	6.40	23	7.5	.945	.000	1.40	4.46	9.43	30.13	203.	.064	27.1
							5.	31.0	17.8	5.90		7.4	2.244	.257	5.09	13.54	9.50		202.	.117	
30°23.44′	88°53.00′	7/24/73	9:45	8.5	29.5	2.0	0.	30.3	20.3	6.90	25	7.5	1.313	.000	1.33	5.92	10.97	30.80	230.	.057	20.4
							5.	30.6	21.3	5.80		7.6	1.634	.220	2.93	8.19	12.08		243.	.055	
30°21.50′	88°48.27′	7/24/73	13:20	3.2	30.8	.8	0.	31.2	23.1	7.50	54	7.7	2.857	.073	.49	6.57	12.76	101.00	265.	.105	21.6
30°21.78′	88°47.56′	7/24/73	13:40	12.0	30.1	2.2	0.	31.0	22.8	7.40	18	7.8	.968	.000	.91	4.86	12.44	65.73	261.	.056	12.4
							5.	31.0	22.8												
							10.	30.7	23.3	6.90		7.8	.616	.055	1.40	5.68	12.79				
30°22.00′	88°47.20′	7/24/73	13:45	4.5	30.1	1.3	0.	31.2	23.3	7.40	62	7.8	.679	.037	.77	6.00	13.09				22.1
30°21.50′	88°48.27′	7/24/73	9:10	5.0	30.0	2.0	0.	30.4	23.0												21.6
30°21.78′	88°47.56′	7/24/73	9:00	11.5	29.2	2.0	0.	30.7	23.1												12.4
							5.	30.7	23.3												
							10.	30.7	23.2												
30°22.00′	88°47.20′	7/24/73	8:59	6.5	29.2	2.0	0.	30.1	23.2												22.1
30°25.30′	88°54.75′	7/24/73	9:15	8.1	29.2	3.0	0.	30.7	11.7												
							5.	30.8	12.8												
30°25.28′	88°55.77′	7/24/73	9:25	9.6	29.4	3.0	0.	30.6	10.8												
							5.	30.5	11.3												
30°25.30′	88°56.90′	7/24/73	9:30	17.2	29.1	3.0	0.	30.9	10.6												
							5.	30.9	10.7												
							10.	30.9	11.0												
							15.	31.2	12.3												
30°25.37′	88°57.88′	7/24/73	9:40	3.3	29.5	2.8	0.	31.0	10.5												
30°25.30′	88°58.82′	7/24/73	9:50	6.0	29.4	3.0	0.	31.3	10.5												
							5.	31.2	10.6												
30°25.40′	88°59.42′	7/24/73	9:55	6.0	29.5	2.4	0.	32.3	7.6												
							5.	31.0	9.1												
30°23.30′	88°47.50′	7/24/73	8:30	4.2	26.7	3.0	0.	29.9	21.5												
30°23.35′	88°49.50′	7/24/73	10:40	13.5	28.2	3.3	0.	30.3	23.4												
							5.	30.2	23.6												
							10.	30.2	23.6												
30°23.96′	88°50.37′	7/24/73	12:50	10.5	30.4	2.0	0.	31.3	18.6												
30°24.65′	88°51.16′	7/24/73	10:35	10.0		2.0	0.	30.6	18.9												
							5.	30.7	19.1												
							10.	30.4	19.4												
30°25.25′	88°52.12′	7/24/73	10:40	9.5	30.4	2.5	0.	31.1	16.6												
							5.	31.1	17.0												
30°25.26′	88°53.52′	7/24/73	9:10	23.0	28.7	3.0	0.	30.8	14.2												
							5.	30.5	14.3												
							10.	30.8	14.5												
							15.	30.9	17.7												
							20.	31.0	17.8												

GULF COAST RESEARCH LABORATORY

BILOXI BAY, MISSISSIPPI

LATITUDE N	LONGITUDE W	DATE	TIME (CST)	DEPTH Bottom (m)	AIR TEMP. °C	TRANS-PARENCY Secchi Disc (m)	SAMPLE DEPTH (m)	WATER TEMP. °C	SALINITY ppt	DIS-SOLVED OXYGEN ppm	TURBIDITY Jackson Turbidity Units	pH	NO_3 µg-at N/l	NO_2 µg-at N/l	PHOSPHATE		CHLOR-OSITY ppt (g/l)	SUS-PENDED SOLIDS mg/m^3	CAL-CIUM ppm g/l	IRON ppm	CHLORO-PHYLL mg/m^3
															ORTHO µg-at P/l	TOTAL µg-at P/l					
30°22.56′	88°48.50′	7/24/73	8:45	10.5	28.1	3.5	0.	30.2	23.4												
							5.	30.2	23.4												
							10.	30.3	23.4												
30°23.37′	88°52.00′	7/24/73	10:15	13.0	29.8	2.2	0.	30.7	20.6												
							5.	30.7	21.1												
							10.	30.9	21.6												
30°23.44′	88°53.00′	7/24/73	10:30	7.0	30.1	3.0	0.	30.6	20.8												
							5.	30.7	21.0												
30°23.52′	88°54.08′	7/24/73	9:35	7.0	30.1	2.0	0.	30.7	22.1												
							5.	30.5	22.1												

APPENDIX B

Fortran Program for Reading and Printing Data Files

```
      PROGRAM BB7273R2
C*****BB7273R2 READS AND PRINTS 1972-73 BILOXI BAY DATA FILES (.DTA)
C     REVISED 8/23/94
      CHARACTER FILIN*79
      DIMENSION DSAM(10),WTEMP(10),SAL(10),DOX(10),ITURB(10),PH(10),CNO3
     1(10),CNO2(10),OPH(10),TPH(10),CLORS(10),SPSOL(10),CA(10),PB(10),FE
     2(10),CHLOR(10)
      LNCNT = 0
      WRITE (*,105)
  105 FORMAT (' SET PRINTER ON CONDENSED FONT'/,' ENTER NAME OF INPUT FI
     1LE'/'  (x:xxxxxxxx.xxx) )'\)
      READ (*,'(A)') FILIN
      OPEN (2,FILE=FILIN)
      OPEN (3,FILE='PRN')
   50 READ (2,20,END=99) ISTA,LATDG,RLATM,LONDG,RLONM,MO,IDA,IYR,IHR,MN,
     1SECHI,DBOT,ATEMP,NOBS
   20 FORMAT (2I2,F5.2,I3,F5.2,5I2,3F4.1,I2)
      LNCNT = LNCNT + 8 + NOBS
      IF (LNCNT .GE. 59) GO TO 21
      GO TO 25
   21 WRITE (3,22)
   22 FORMAT ('1')
      LNCNT = 8 + NOBS
   25 WRITE (3,31)
   31 FORMAT (' STATION LATITUDE  LONGITUDE     DATE   TIME    SECCHI BO
     1TTOM  AIR')
      WRITE (3,32)
   32 FORMAT ('                                                    DEPTH  D
     1EPTH  TEMP.')
      WRITE (3,33) ISTA,LATDG,CHAR(248),RLATM,LONDG,CHAR(248),RLONM,MO,I
     1DA,IYR,IHR,MN,SECHI,DBOT,ATEMP
   33 FORMAT (4X,I2,3X,I2,A1,F5.2,'''',1X,I3,A1,F5.2,'''',1X,I2,'/',I2,'
     1/',I2,1X,I2,':',I2,2X,3(3X,F4.1)/)
      WRITE (3,34)
   34 FORMAT (' DEPTH  WATER  SAL.  OXY.  TURB.  PH    NO3     NO2    --P
     1HOSPHATE-  CHLORS.  SUSP. CAL.   LEAD    IRON   CHLOR.')
      WRITE (3,35)
   35 FORMAT ('        TEMP.                                          ORT
     1HO  TOTAL          SOLIDS')
      DO 100 N = 1,NOBS
      READ (2,40) DSAM(N),WTEMP(N),SAL(N),DOX(N),ITURB(N),PH(N),CNO3(N),
     1CNO2(N),OPH(N),TPH(N),CLORS(N),SPSOL(N),CA(N),PB(N),FE(N),CHLOR(N)
   40 FORMAT (F3.0,2F4.1,F5.2,I3,F4.1,2F6.3,3F5.2,F6.2,F4.0,2F6.3,F4.1)
      WRITE (3,45)DSAM(N),WTEMP(N),SAL(N),DOX(N),ITURB(N),PH(N),CNO3(N),
     1CNO2(N),OPH(N),TPH(N),CLORS(N),SPSOL(N),CA(N),PB(N),FE(N),CHLOR(N)
   45 FORMAT (2X,F3.0,3X,2(F4.1,2X),F5.2,2X,I3,2X,F4.1,2X,2(F6.3,2X),3(F
     15.2,2X),F6.2,2X,F4.0,2X,2(F6.3,2X),F4.1)
  100 CONTINUE
      WRITE (3,48)
   48 FORMAT (' ',110('=')/)
      GO TO 50
   99 END
```

```
 Volume in drive A has no label
 Volume Serial Number is 1923-0FF0
 Directory of A:\

BB7273R2 FOR      2209 08-23-94   2:39p
BB7273R2 EXE     54046 08-23-94   2:40p
BB7273   DTA    138158 06-29-94   8:25a
        3 file(s)     194413 bytes
                     1262592 bytes free
```

The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.