

Louisiana Universities Marine Consortium
Data Report No. 6

Hydrographic, Biological, and Nutrient
Characteristics of the Water Column
on the Southeastern Louisiana Coast,
January, 1986 to November, 1986

by

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Introduction

In June 1985, a focused study was initiated to assess the spatial and temporal extent, intensity, and potential causes of oxygen depletion in the northern Gulf of Mexico. Hypoxic (<2.0 mg/l O_2) bottom waters were studied along two transects (one off Cat Island Pass near Cocodrie and one off Belle Pass near Port Fourchon) (Rabalais et al., 1986a). The number of transects was reduced to one in 1986 (Transect C off Cat Island Pass) and the number of sample periods increased. Sixteen cruises were conducted aboard the R/V *Acadiana* or the R/V *Pelican* between late January and mid-November, 1986. Sampling was most intense (bi-weekly) from mid-April through late September. A reduced sampling scheme (four stations) was followed for the first two cruises. In addition a shelf-wide cruise was conducted from the Mississippi River to the Texas border during July, 1986 (see LUMCON Data Report No. 7; Rabalais et al., 1989b).

Methods

Temperature, pH, dissolved oxygen, conductivity, salinity, and depth were measured with a Hydrolab Surveyor II Water Quality Data System at 1-, 2-, or 3-m intervals through the water column. Readings from a digital display unit were recorded on board ship. Conductivity in $25^{\circ}C$ equivalents was converted to *in situ* conductivity and *in situ* salinity. Water samples were collected to check the conductivity sensor against water of a known salinity. A correction factor was applied as necessary for *in situ* salinity calculations. Selected samples for dissolved oxygen analysis were collected from surface and bottom waters and analyzed according to a modified Winkler procedure (Strickland and Parsons, 1972). Operation, maintenance, and calibration of the Hydrolab Surveyor II followed instructions provided by the Hydrolab manual (Hydrolab Corp., 1984). Yearly maintenance of the Surveyor II was performed by Hydrolab Corporation.

Water for chlorophyll and nutrient analyses was collected from surface and bottom waters in 5-l Niskin bottles. Samples for nutrients were frozen on board ship for later analysis in the laboratory. Nitrogen and phosphorus were analyzed according to methods described in EPA publication EPA 600/4-79-020 (1979), method 350.1 for ammonia-N, method 353.2 for nitrate/nitrite-N, and method 365.1 for phosphate-P. Silicate was analyzed according to Technicon Industrial method 186-72 W/B (1977). Water for chlorophyll analysis was filtered on board ship through glass fiber filters which were then fixed in 90% aqueous acetone and placed on ice until return to the laboratory. Analysis for chlorophyll and phaeopigment concentrations followed the fluorometric methods outlined in Strickland and Parsons (1972).

Results

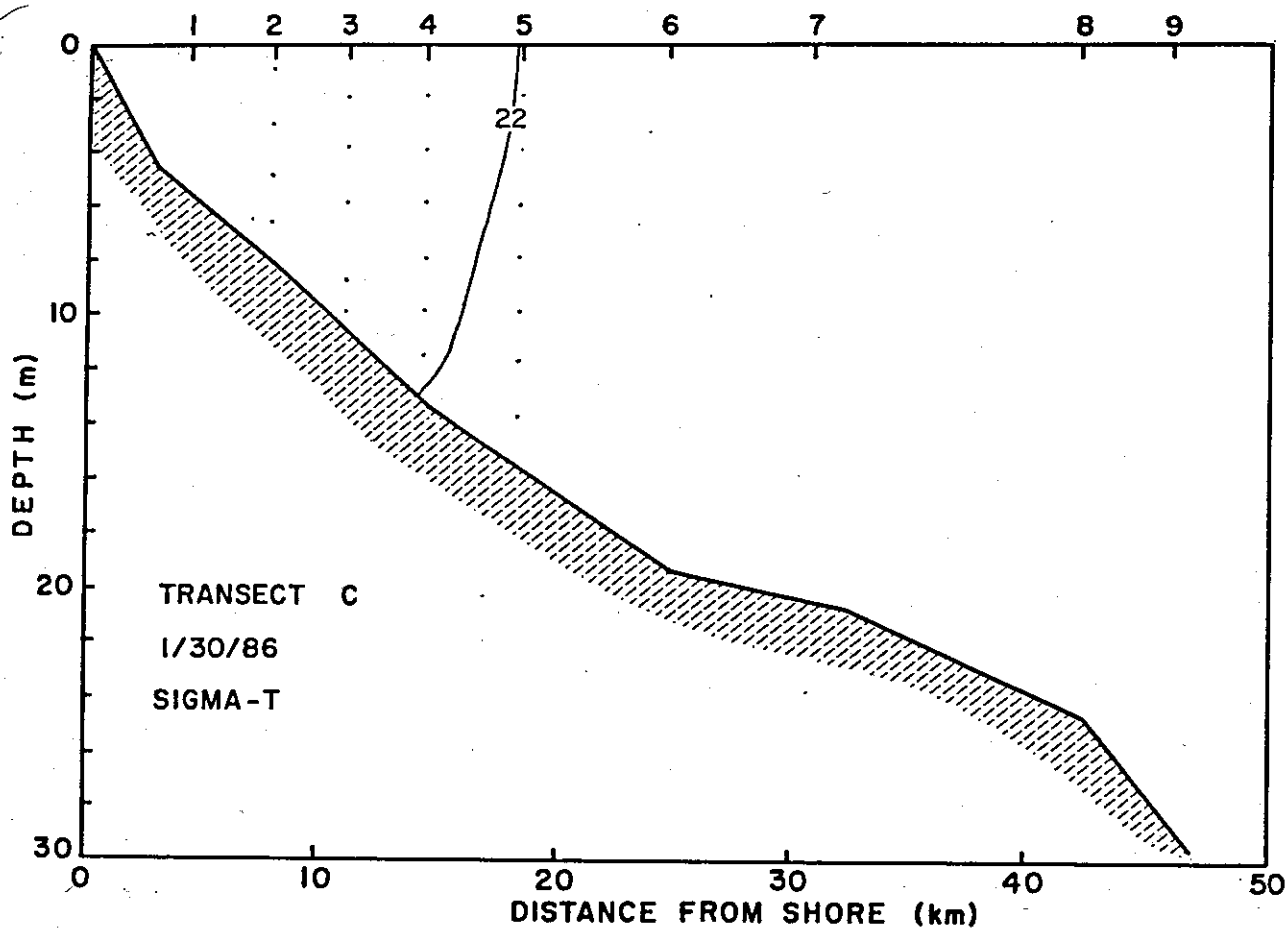
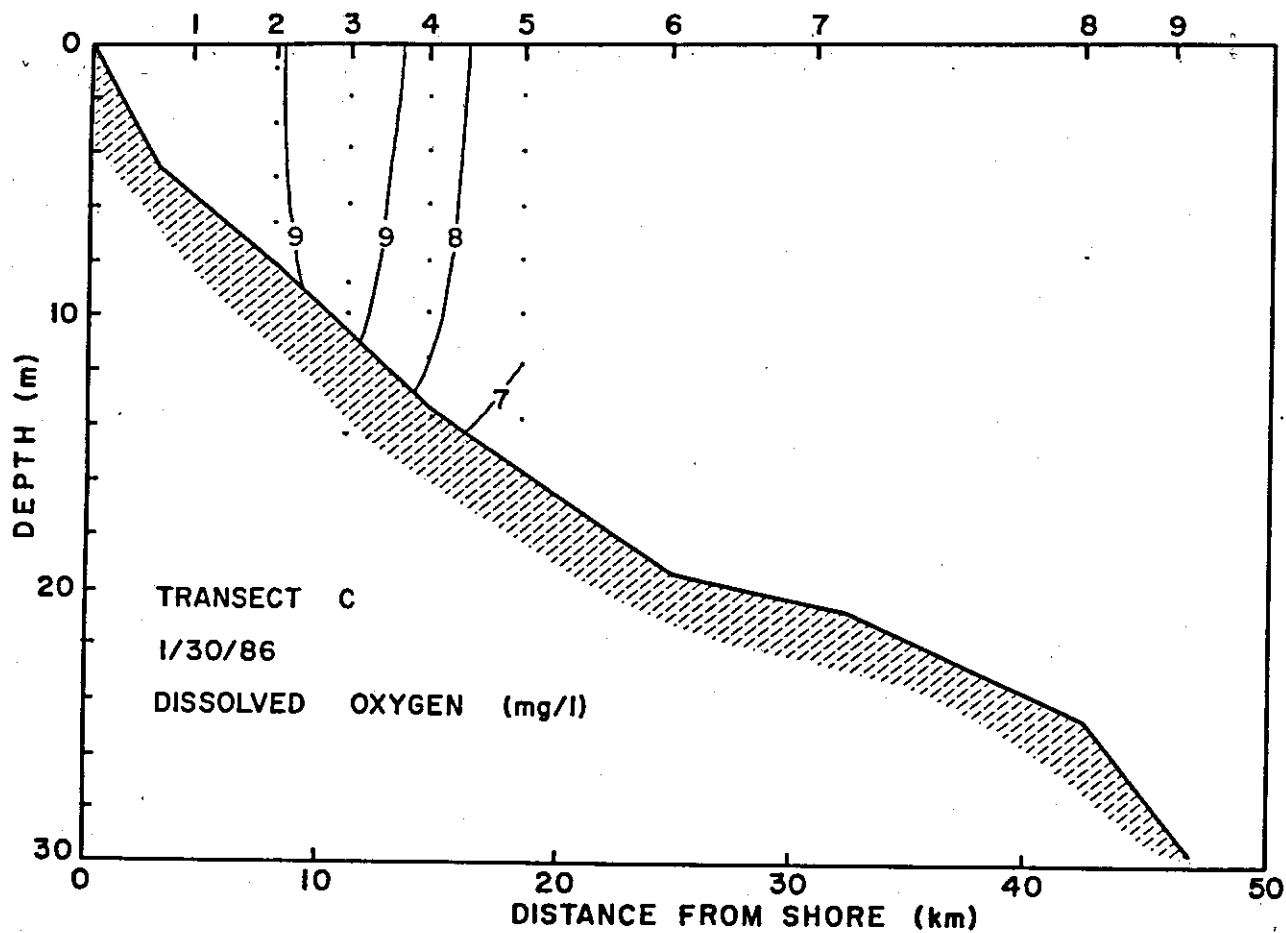
Selected parameters (dissolved oxygen and sigma-t) are illustrated for each transect on each sample date. Hydrographic, chlorophyll, and nutrient data for the cruises follow the figures.

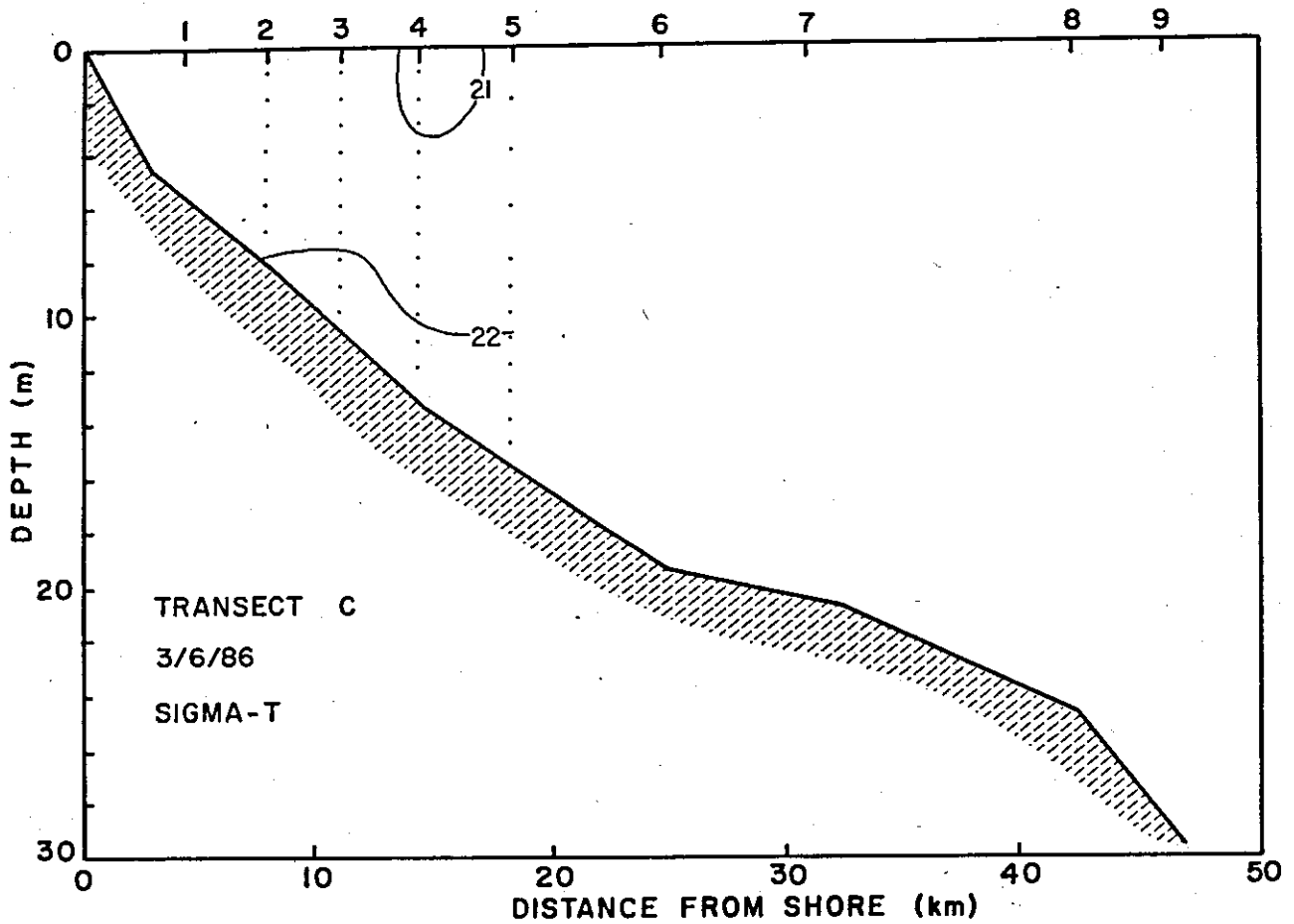
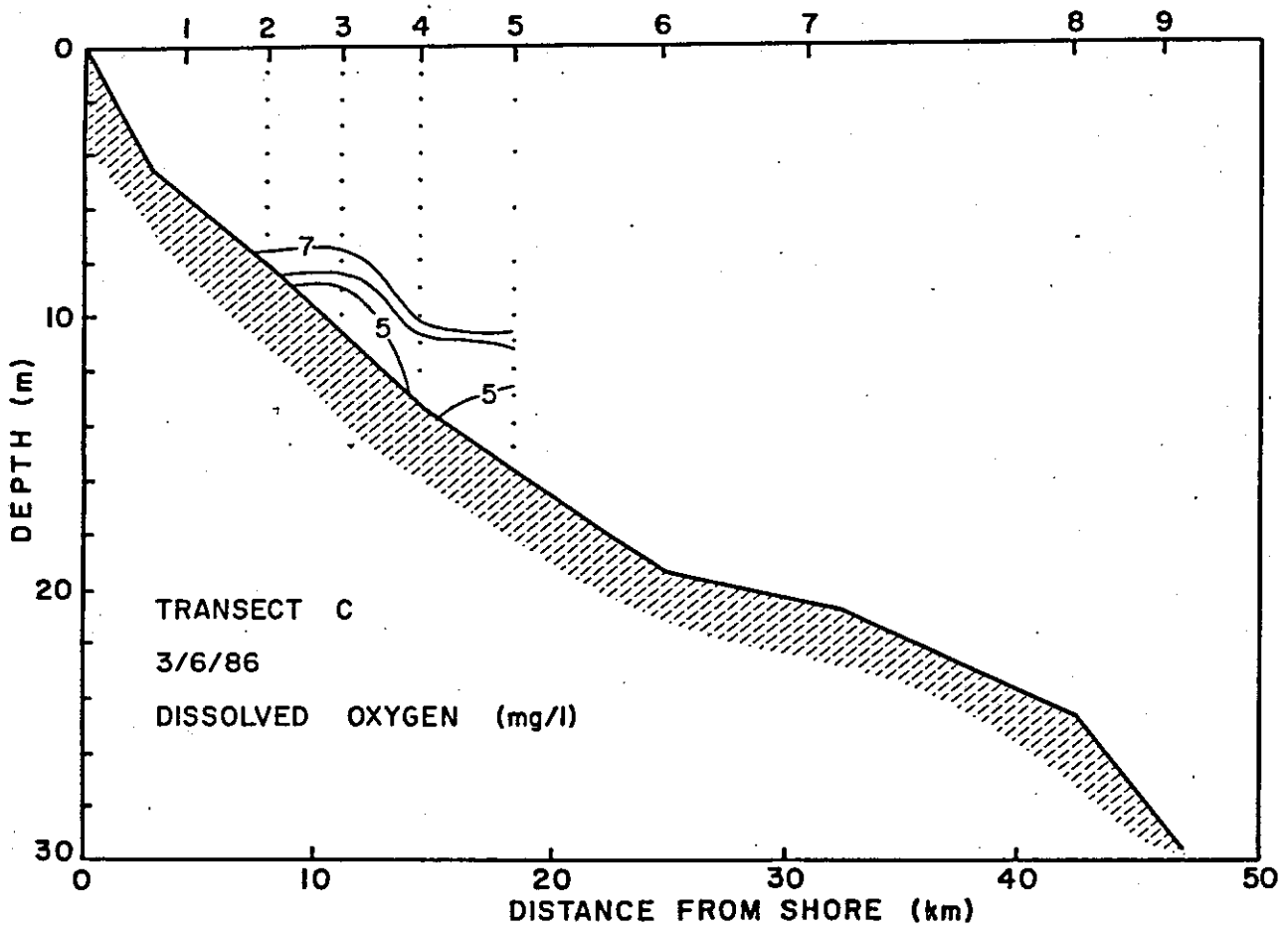
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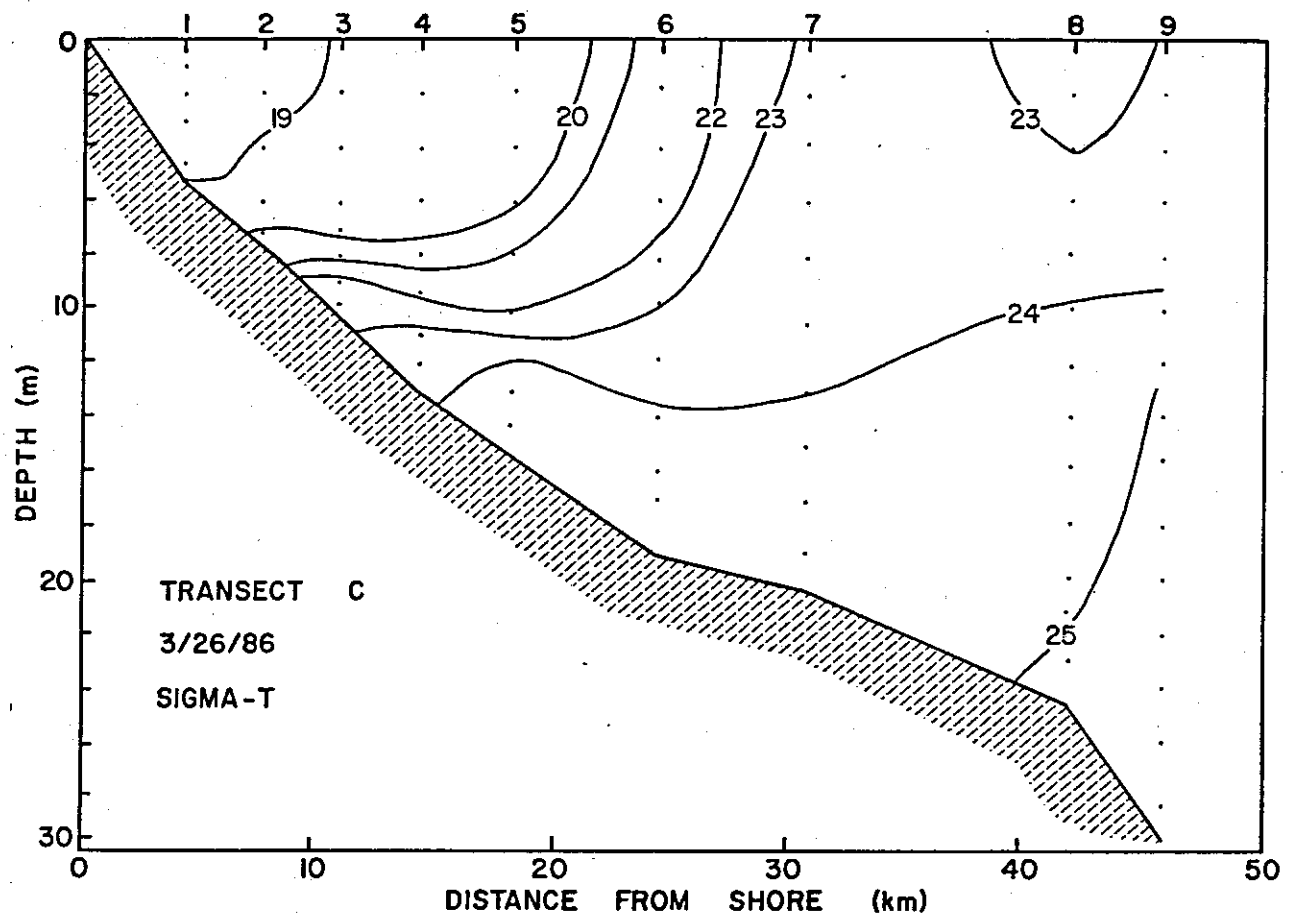
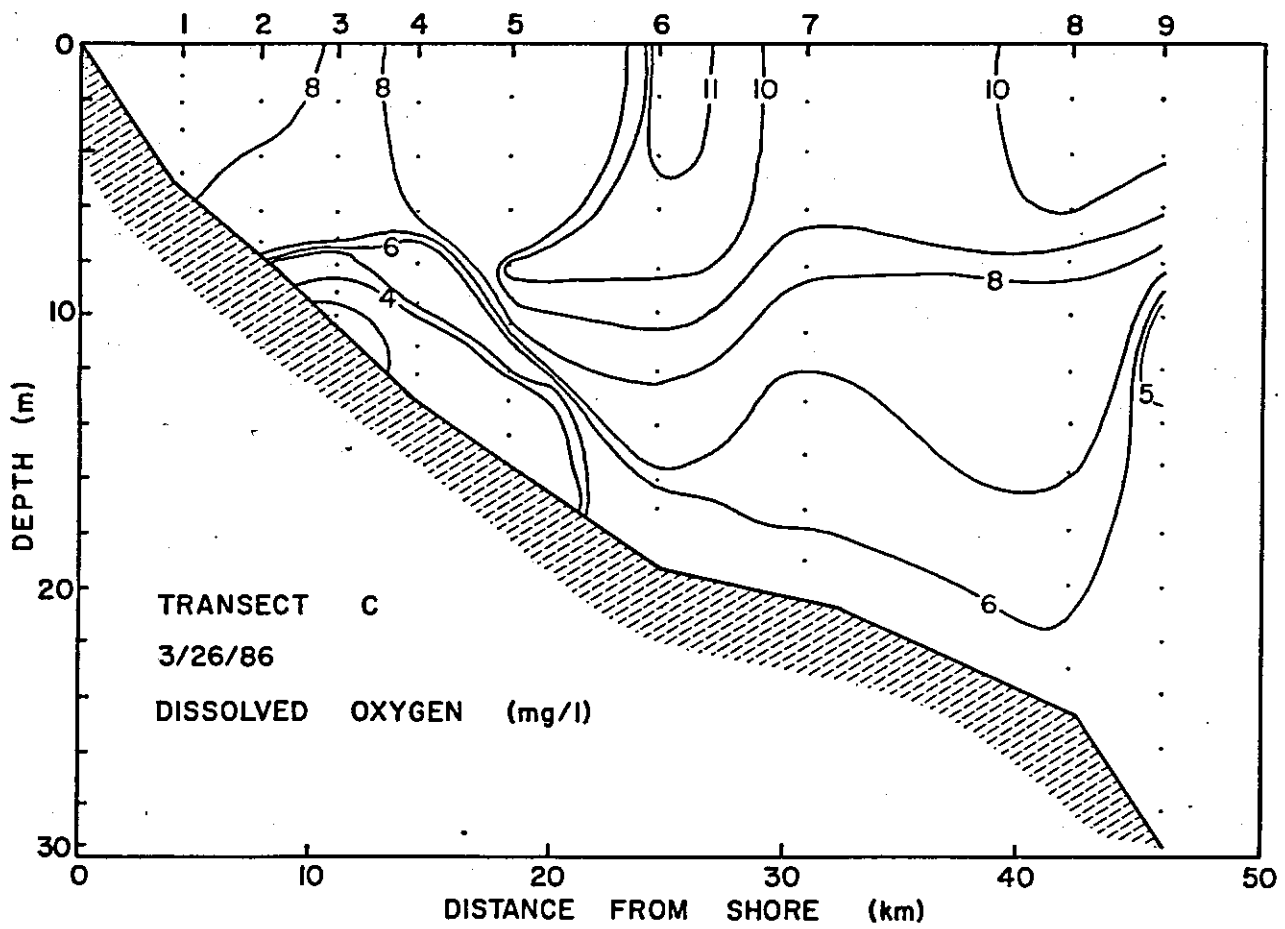
Funds for this research were provided by the National Oceanic and Atmospheric Administration, Ocean Assessments Division, through the Louisiana Sea Grant Program and by the Louisiana Universities Marine Consortium. We acknowledge the many people who helped with these cruises: M. Murrell, J. Lee, P. Rutledge, D. Coignet, M. Gee, C. Massad, F. DeMur, R. Bauer, R. Shaw, and students of the LUMCON Introduction to Marine Zoology course; and the captains and crews of the R/V *Acadiana* and the R/V *Pelican*. P. Swarzenski helped with the graphics.

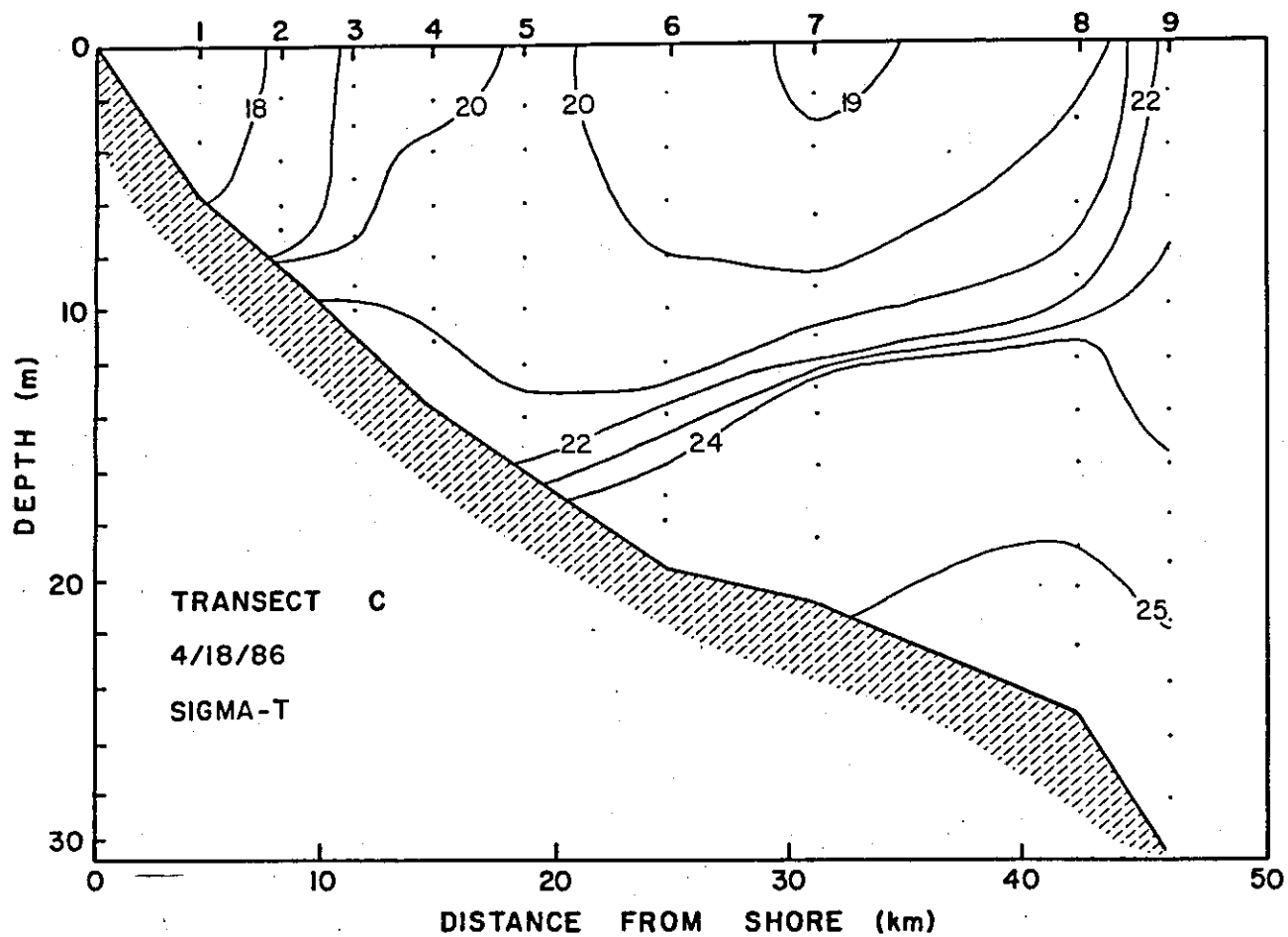
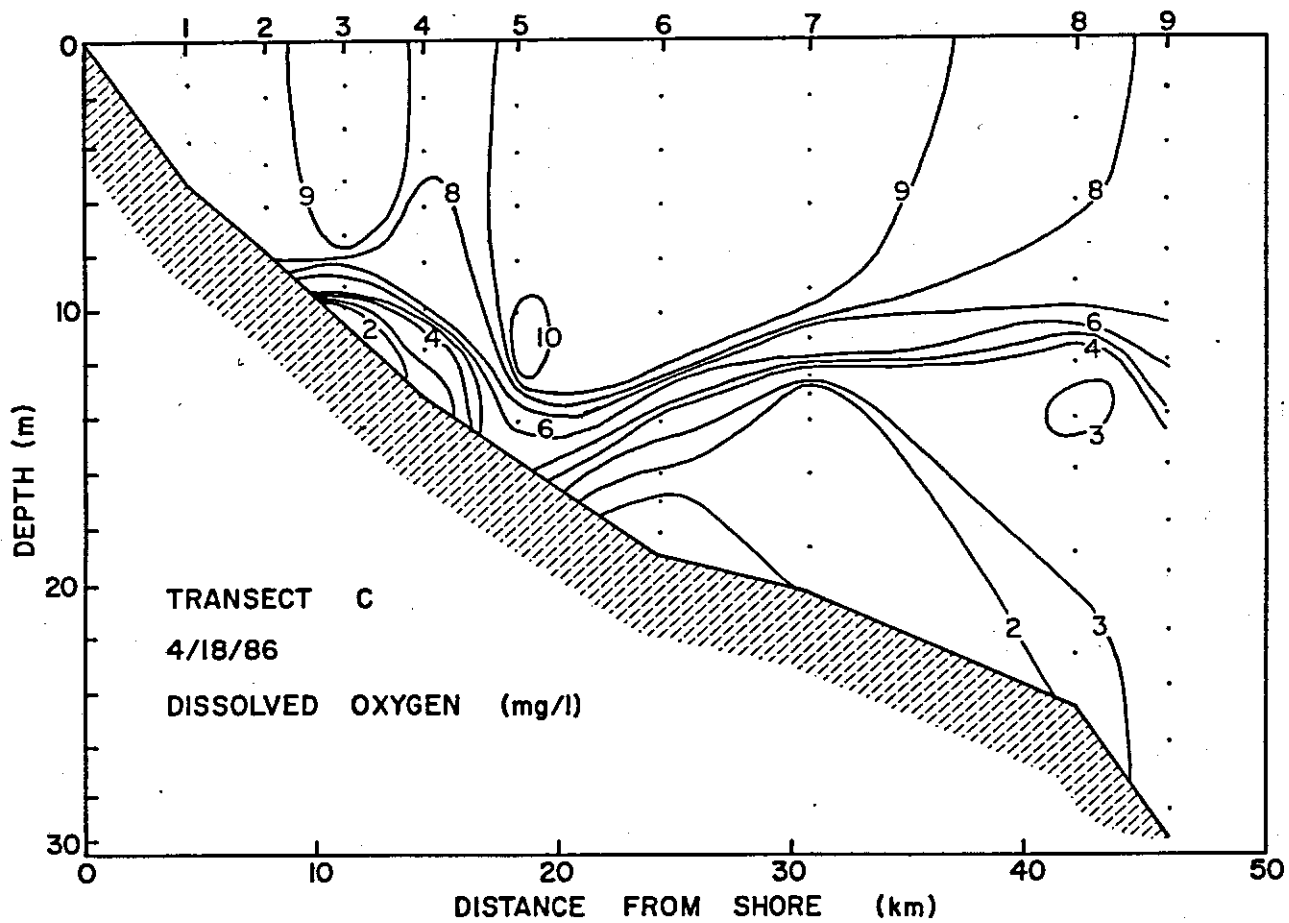
Literature Cited

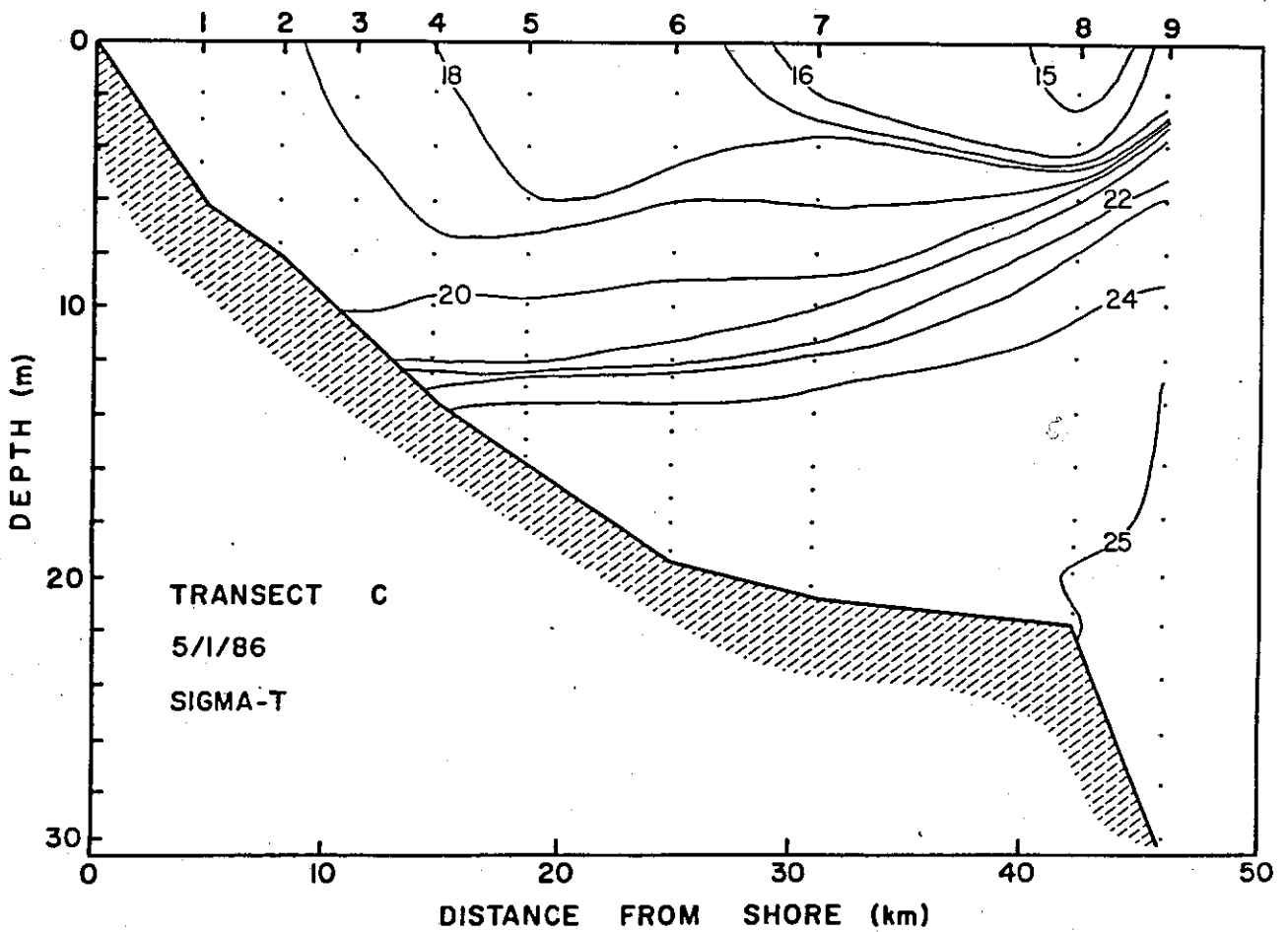
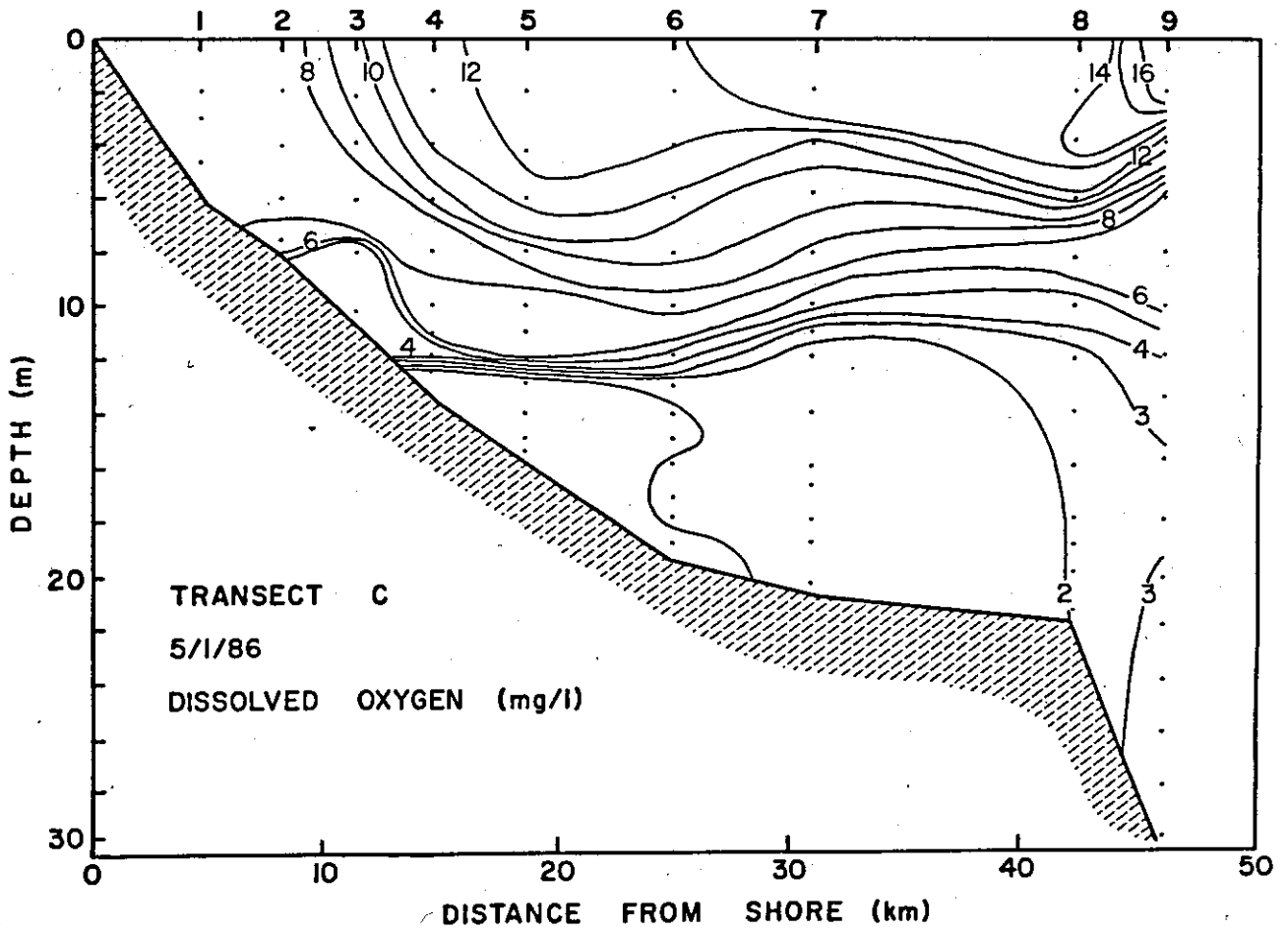
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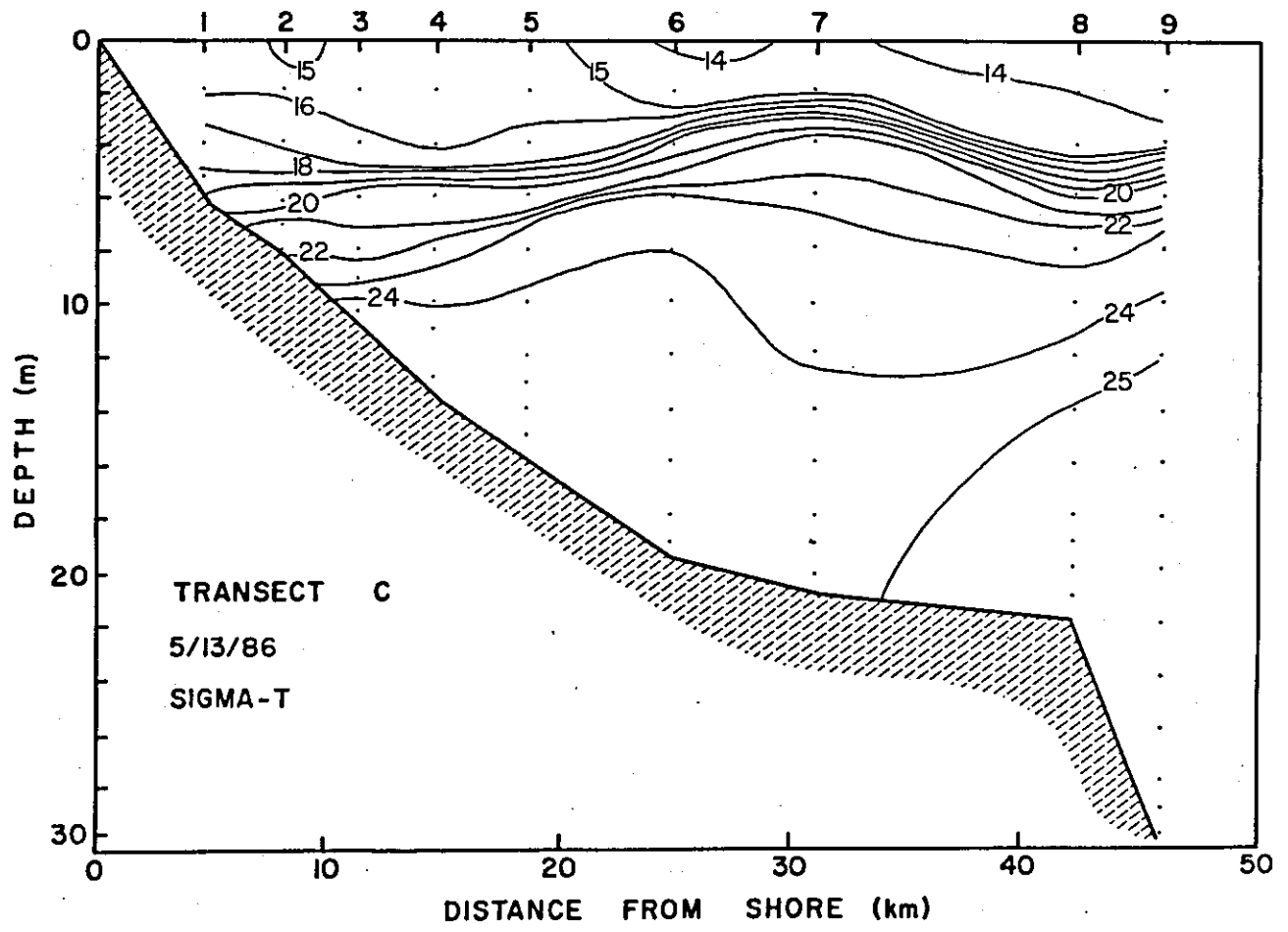
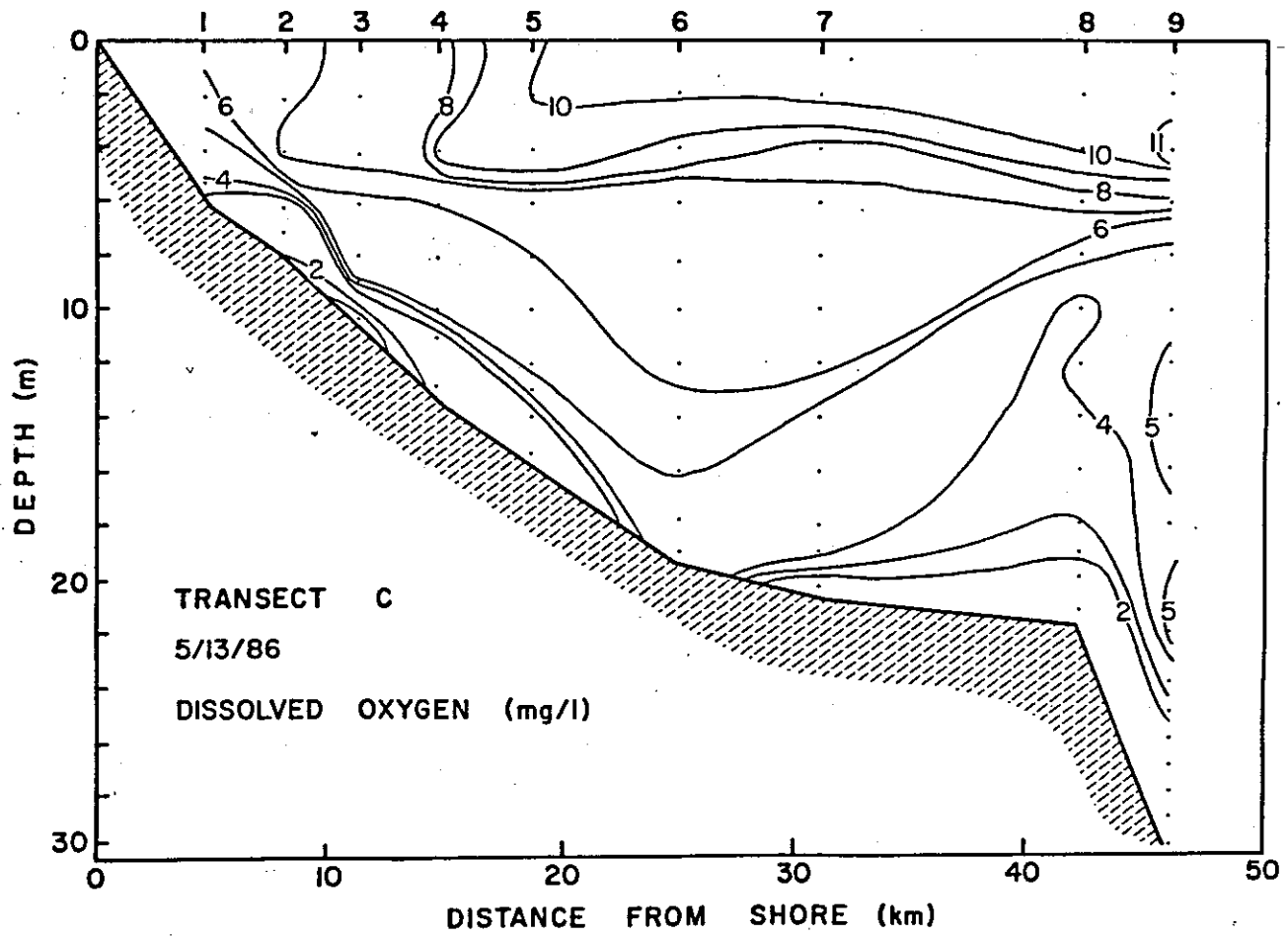


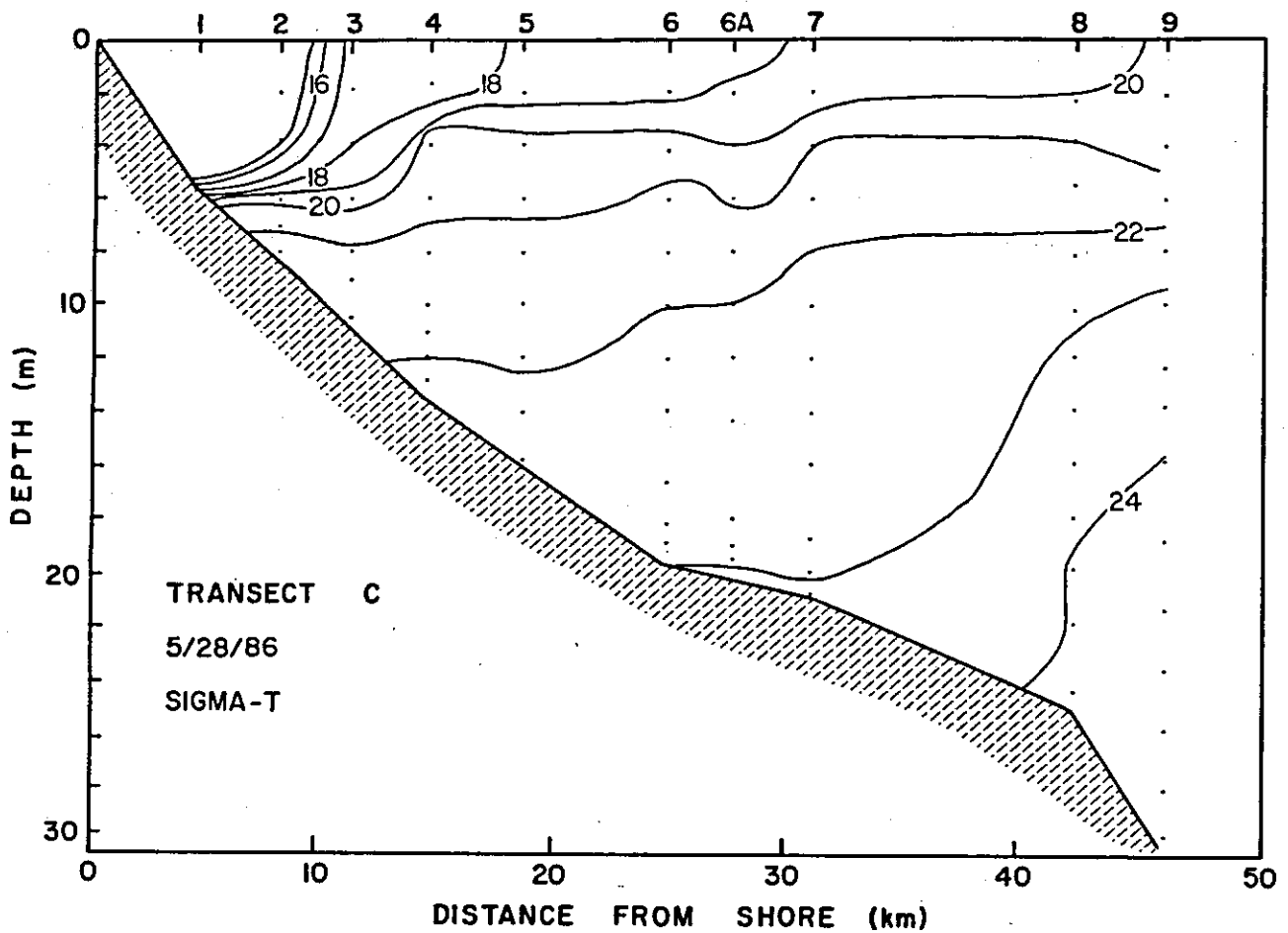
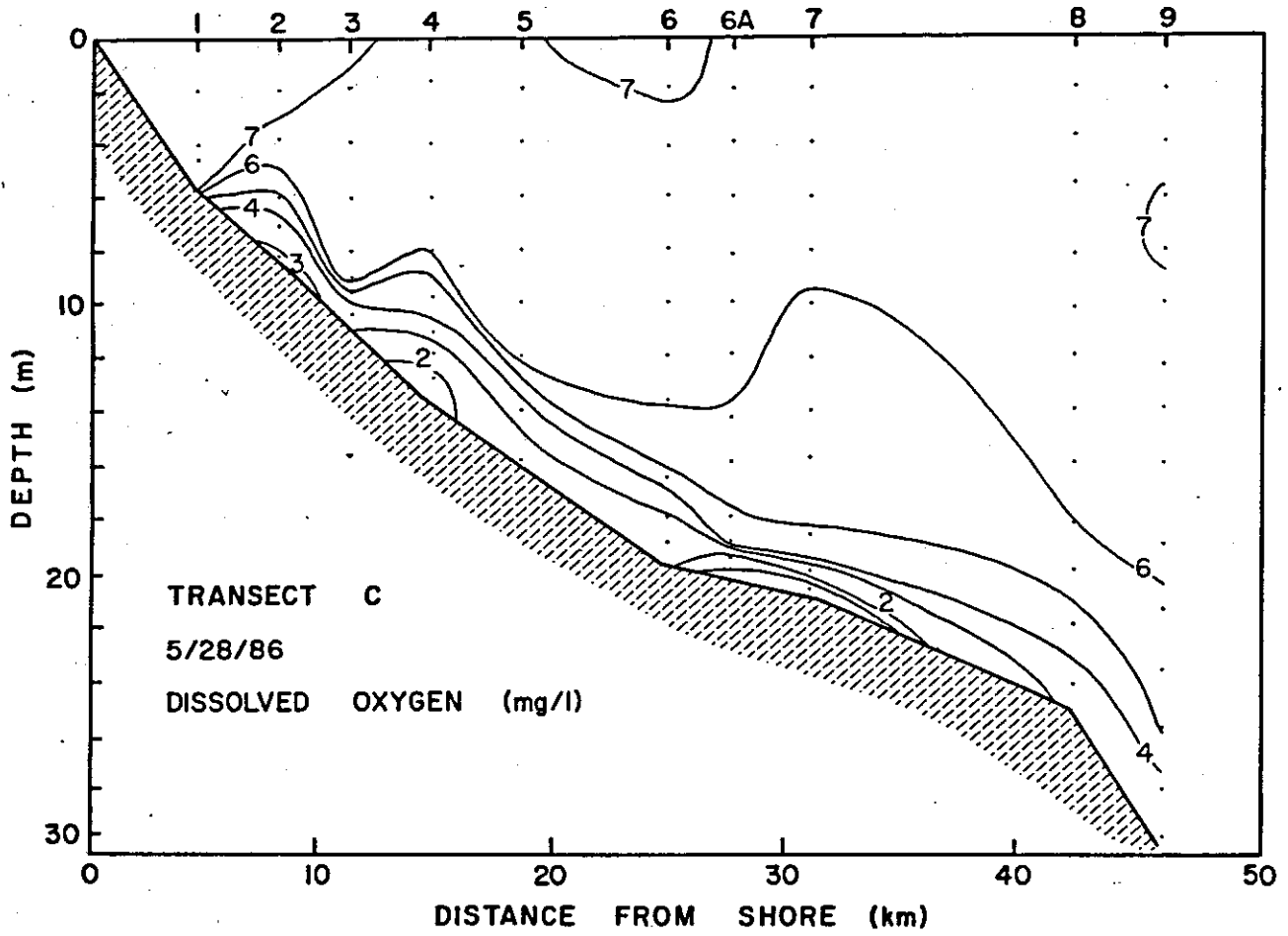


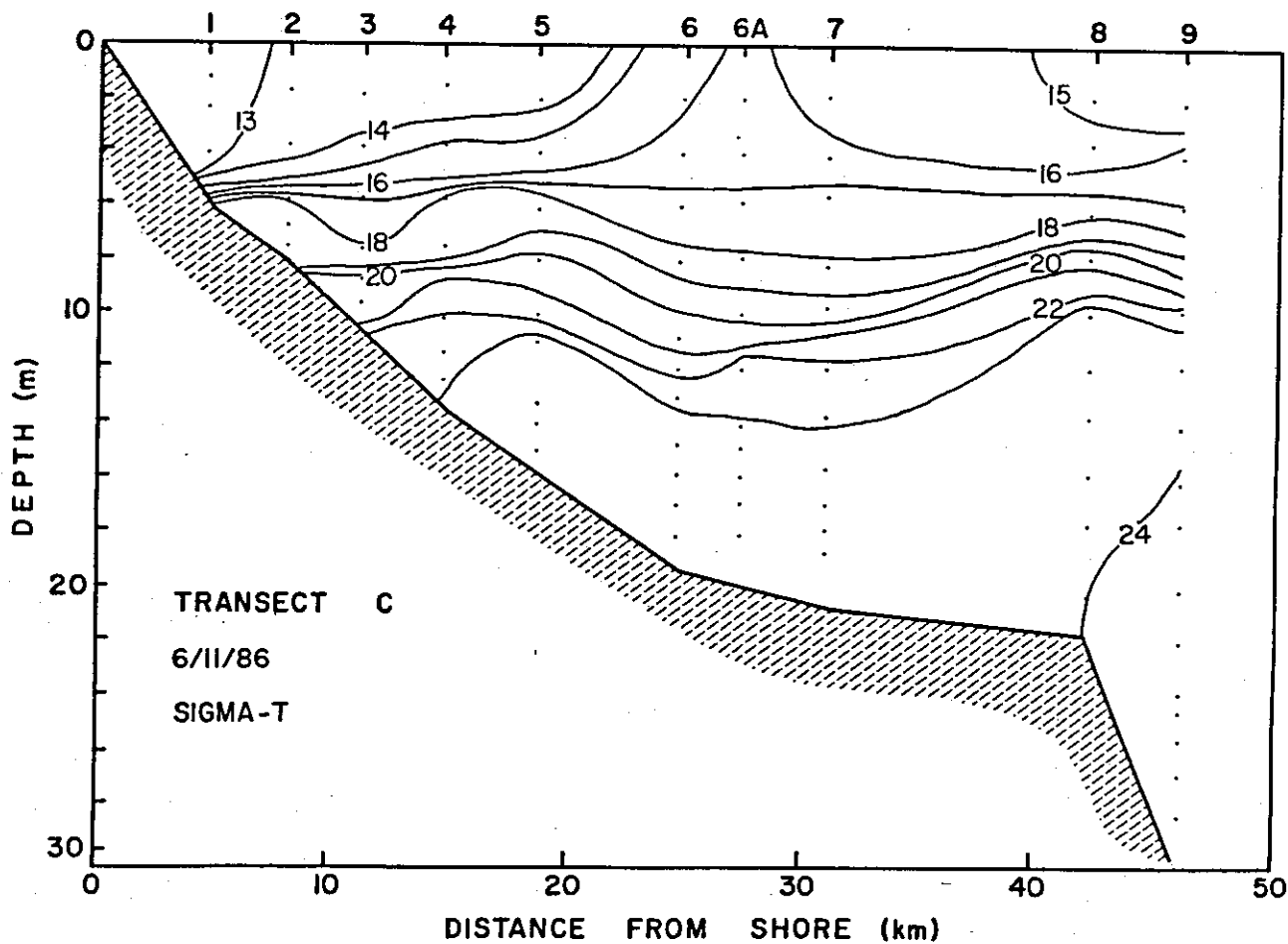
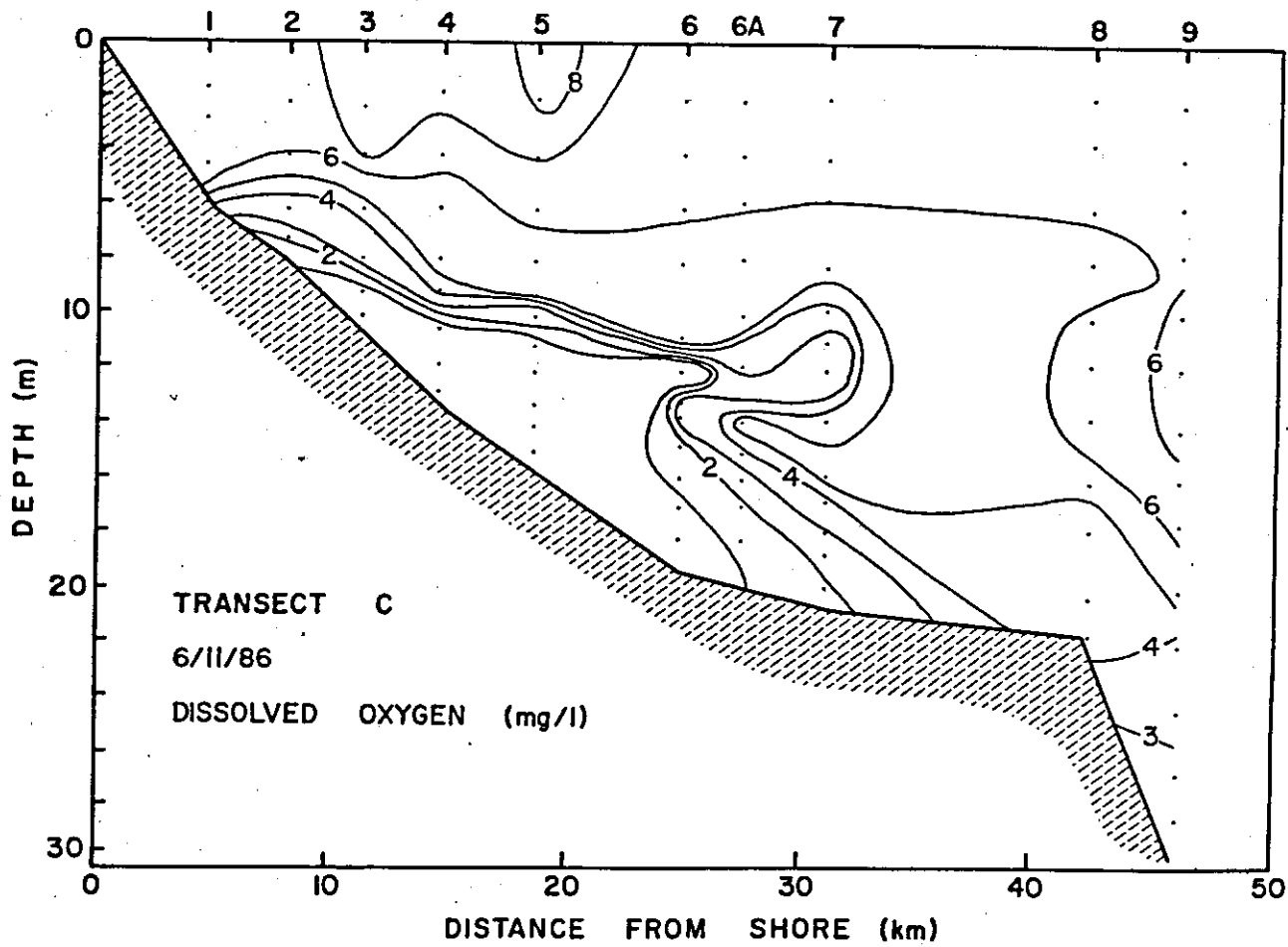


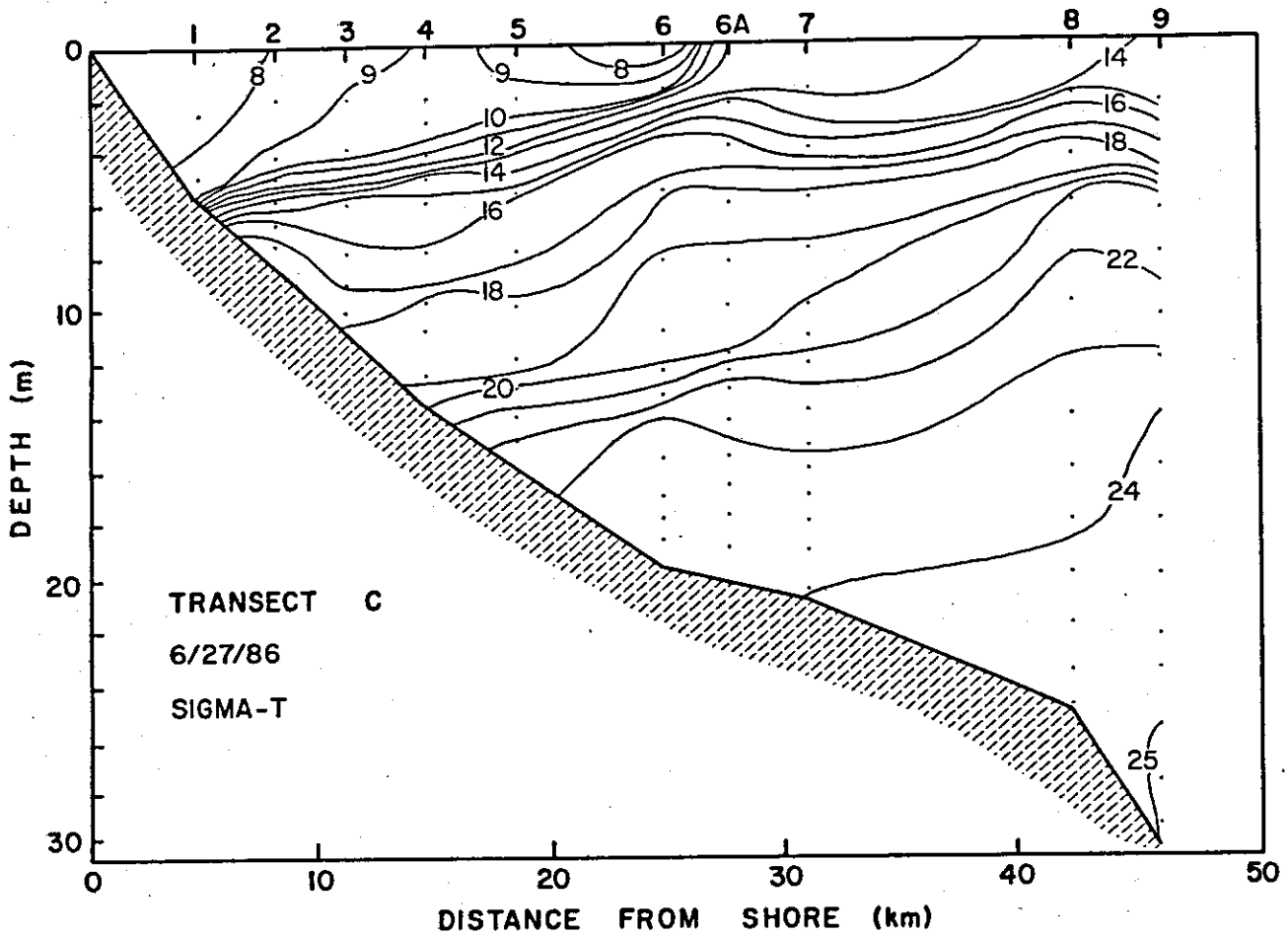
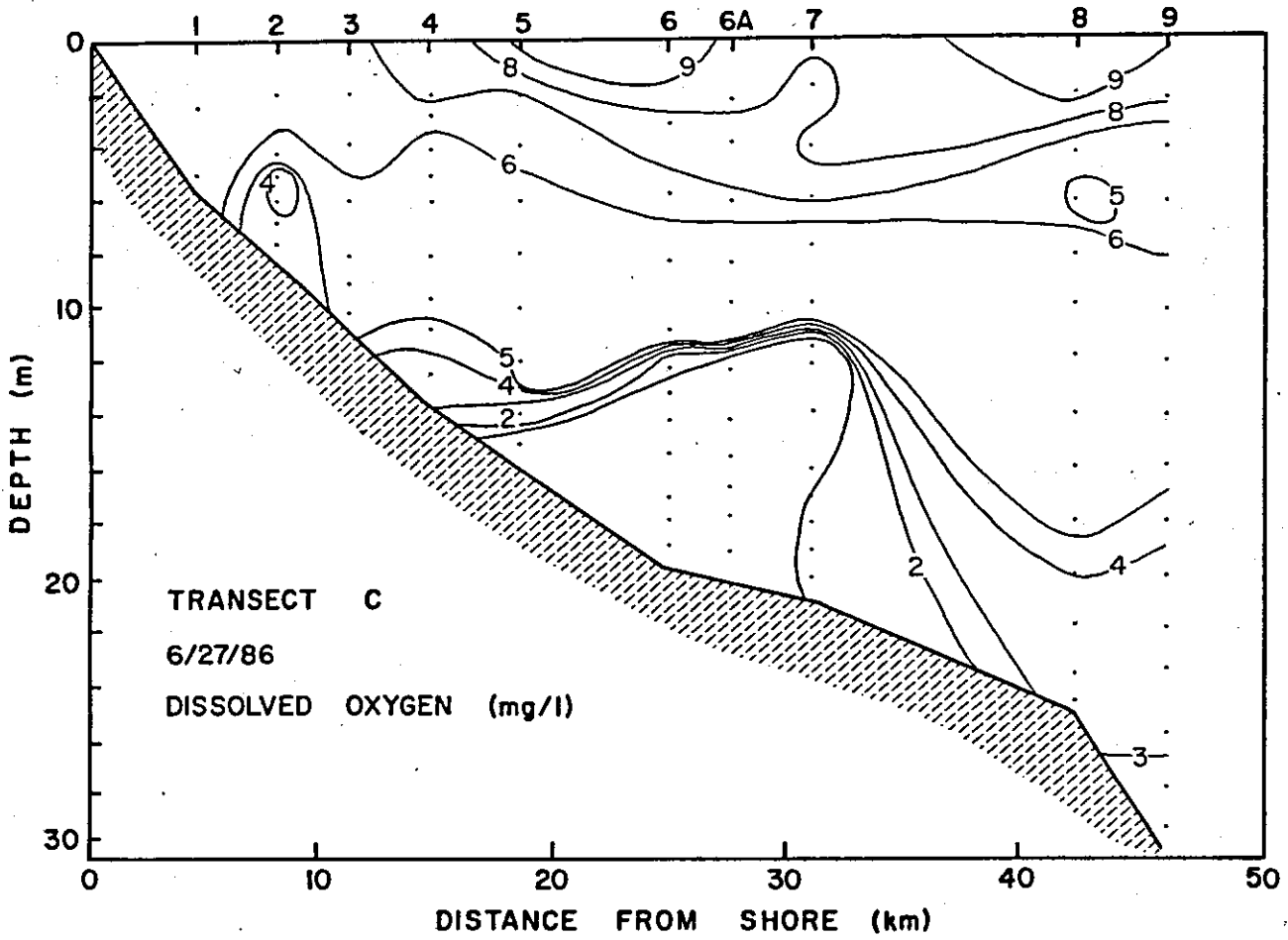


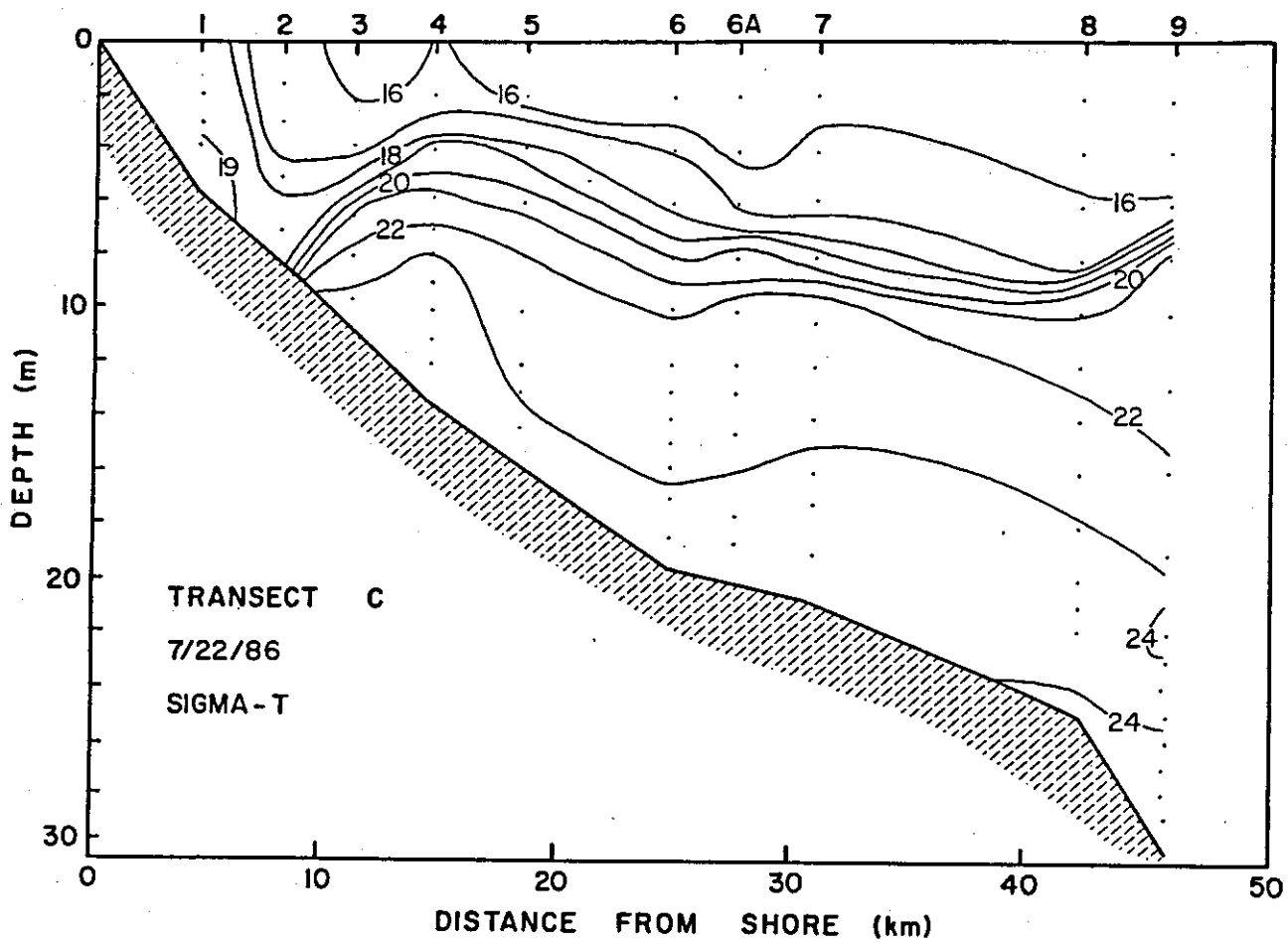
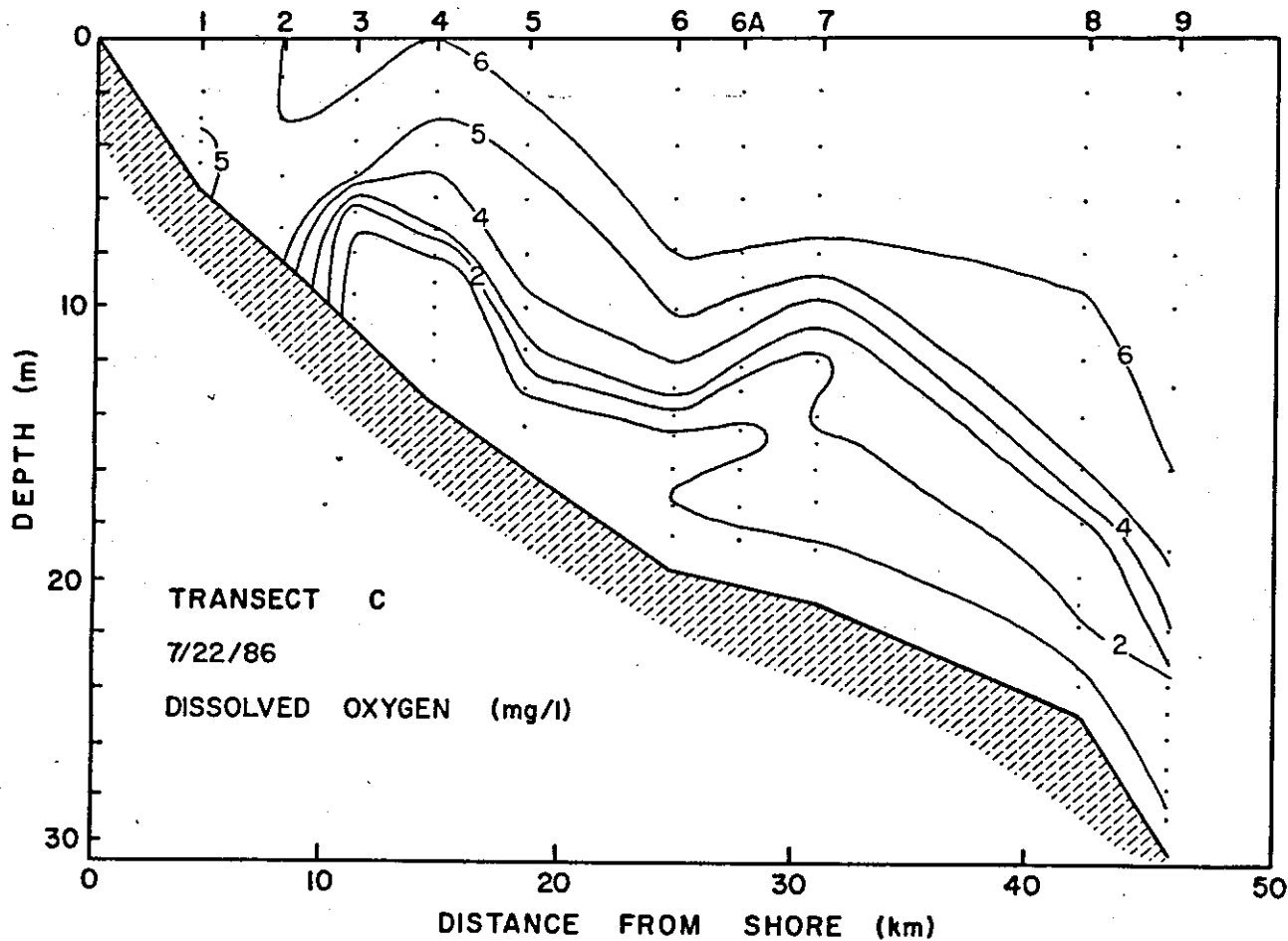


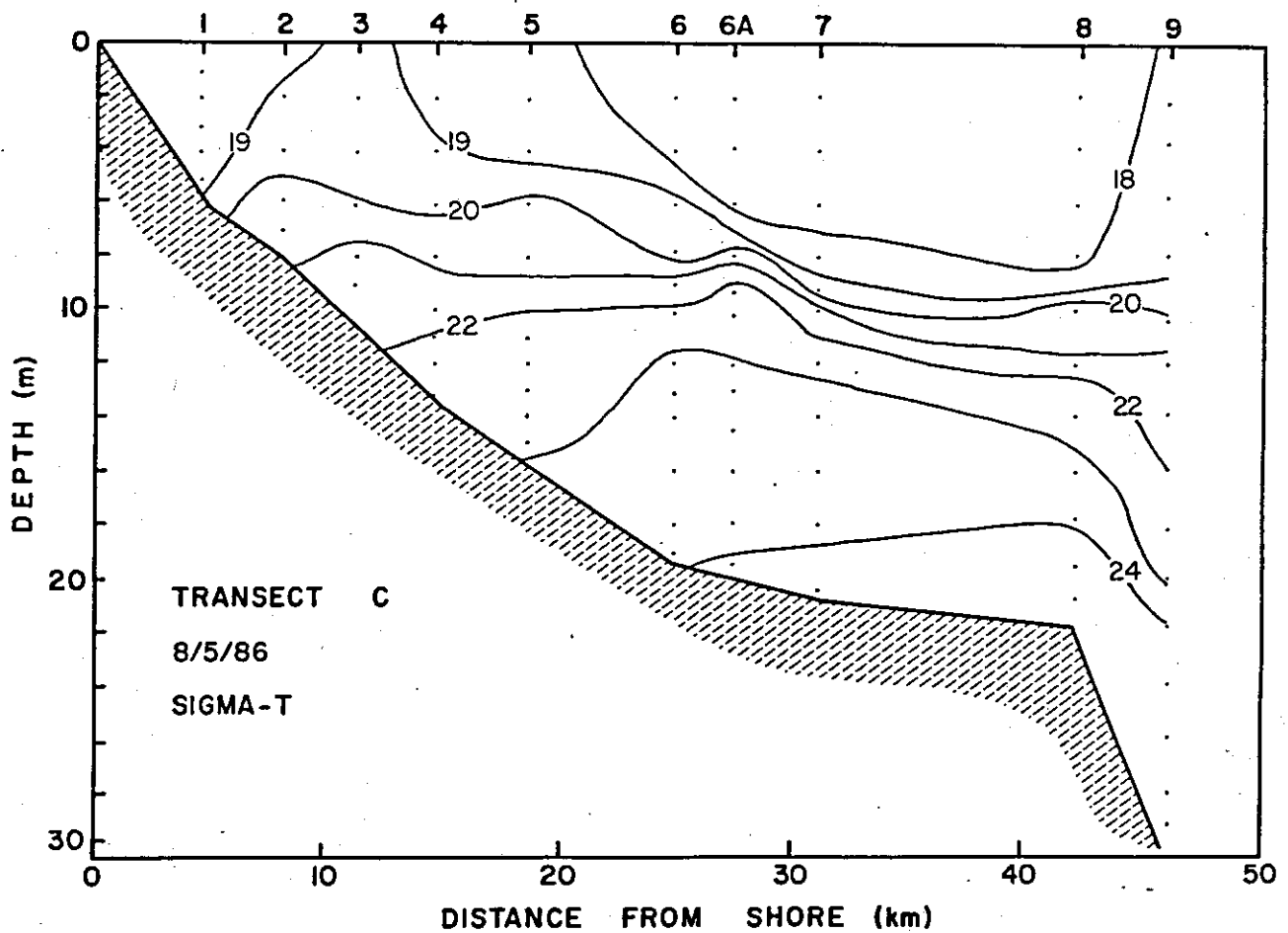
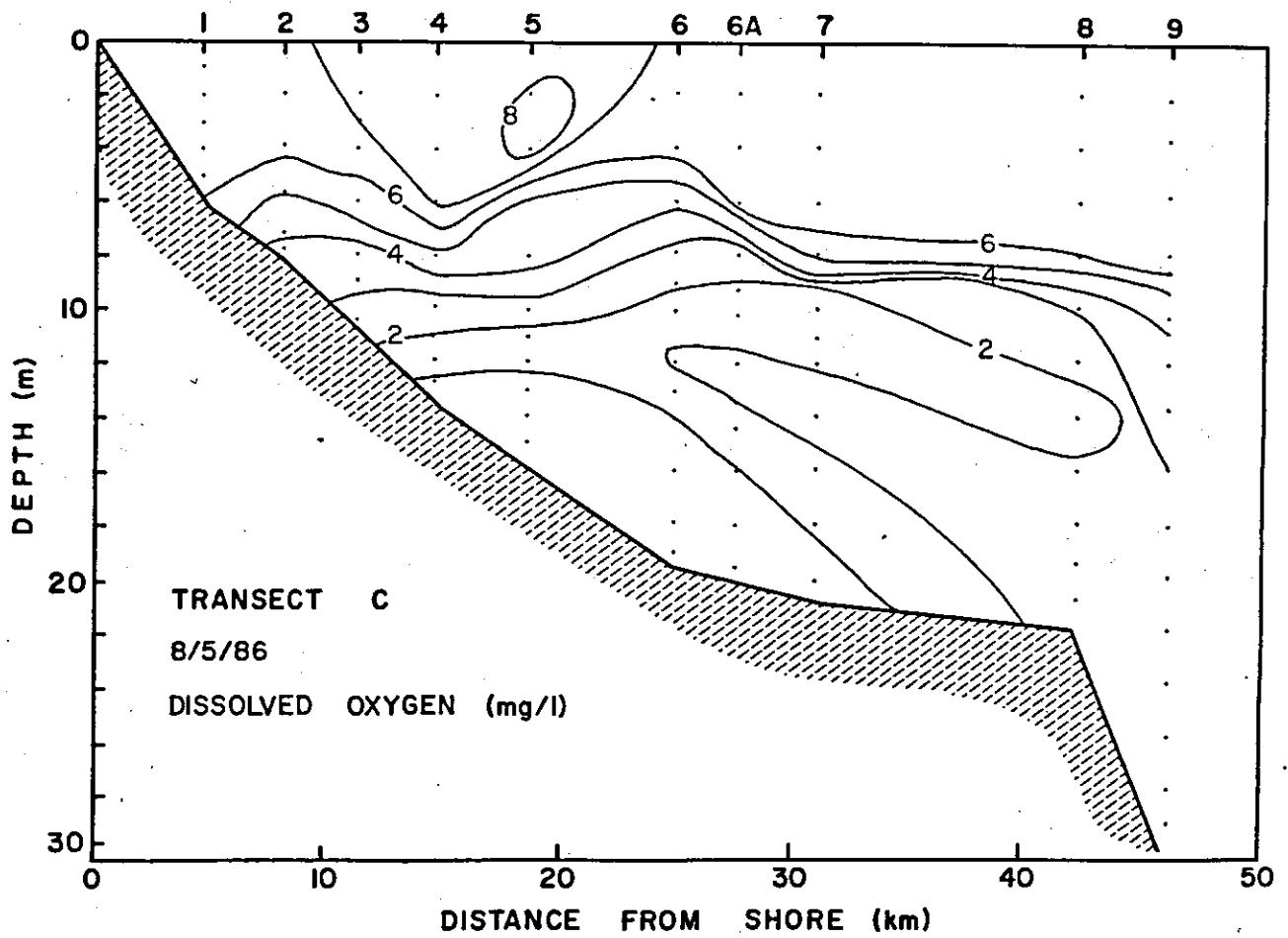


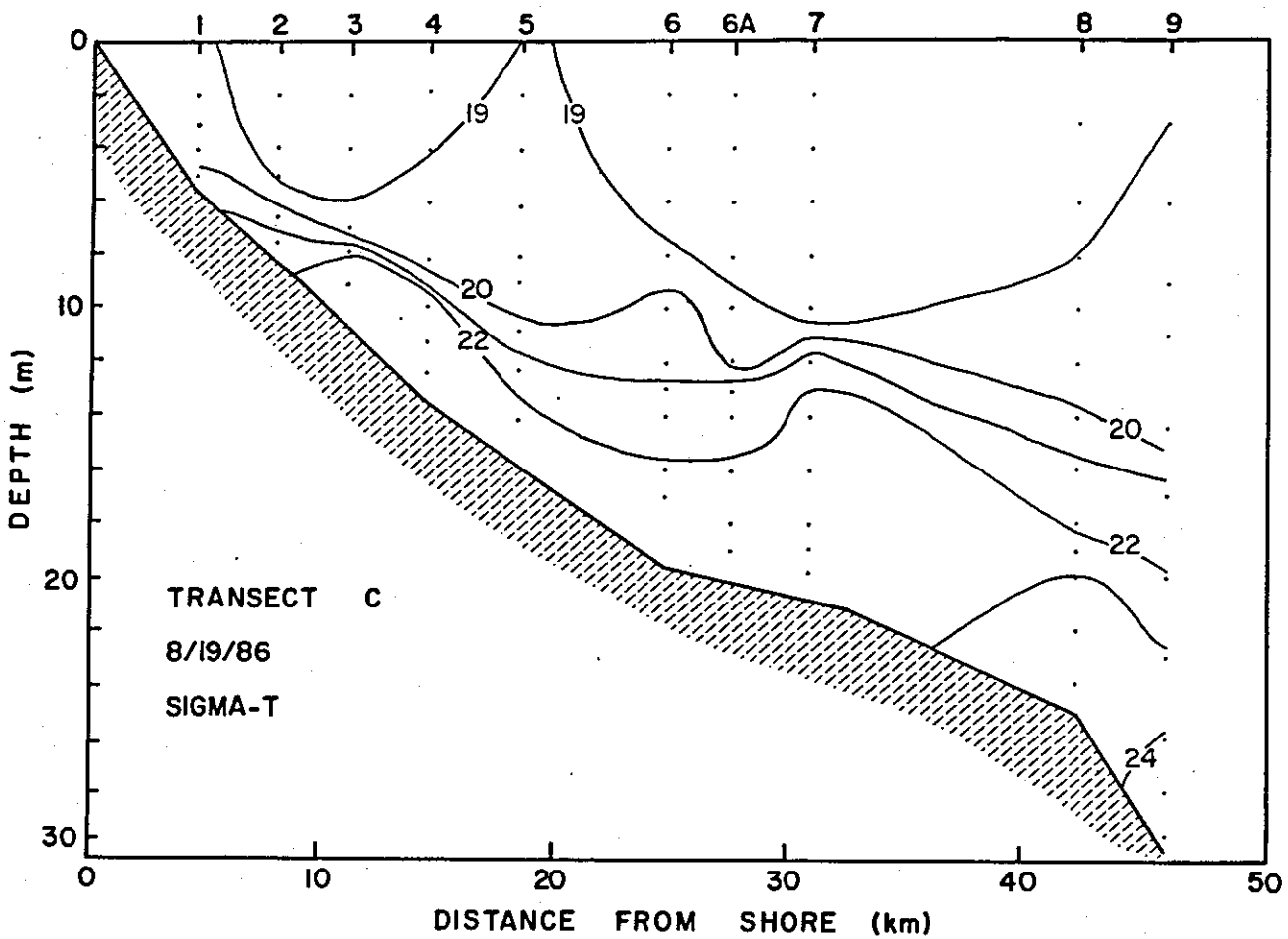
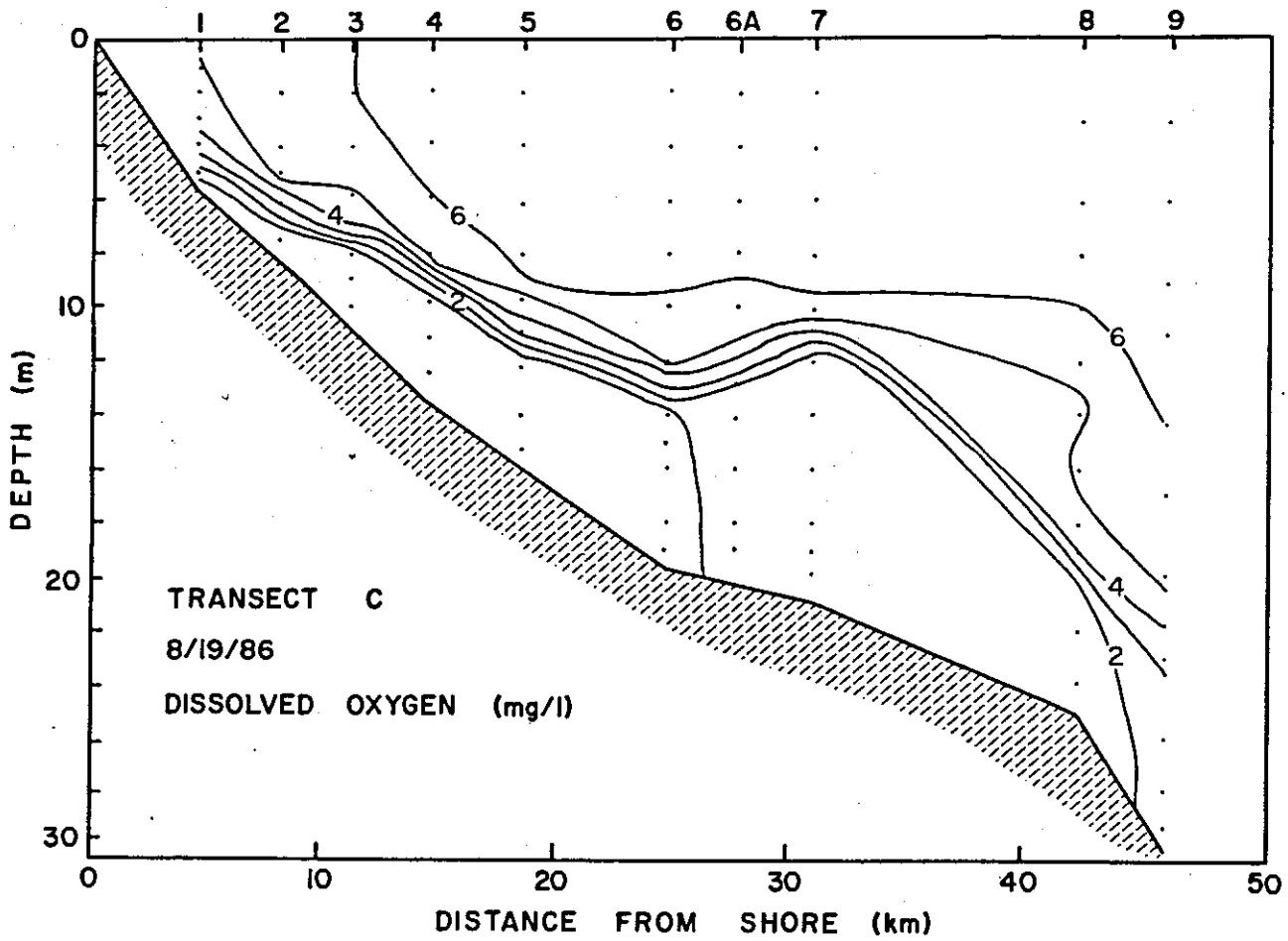


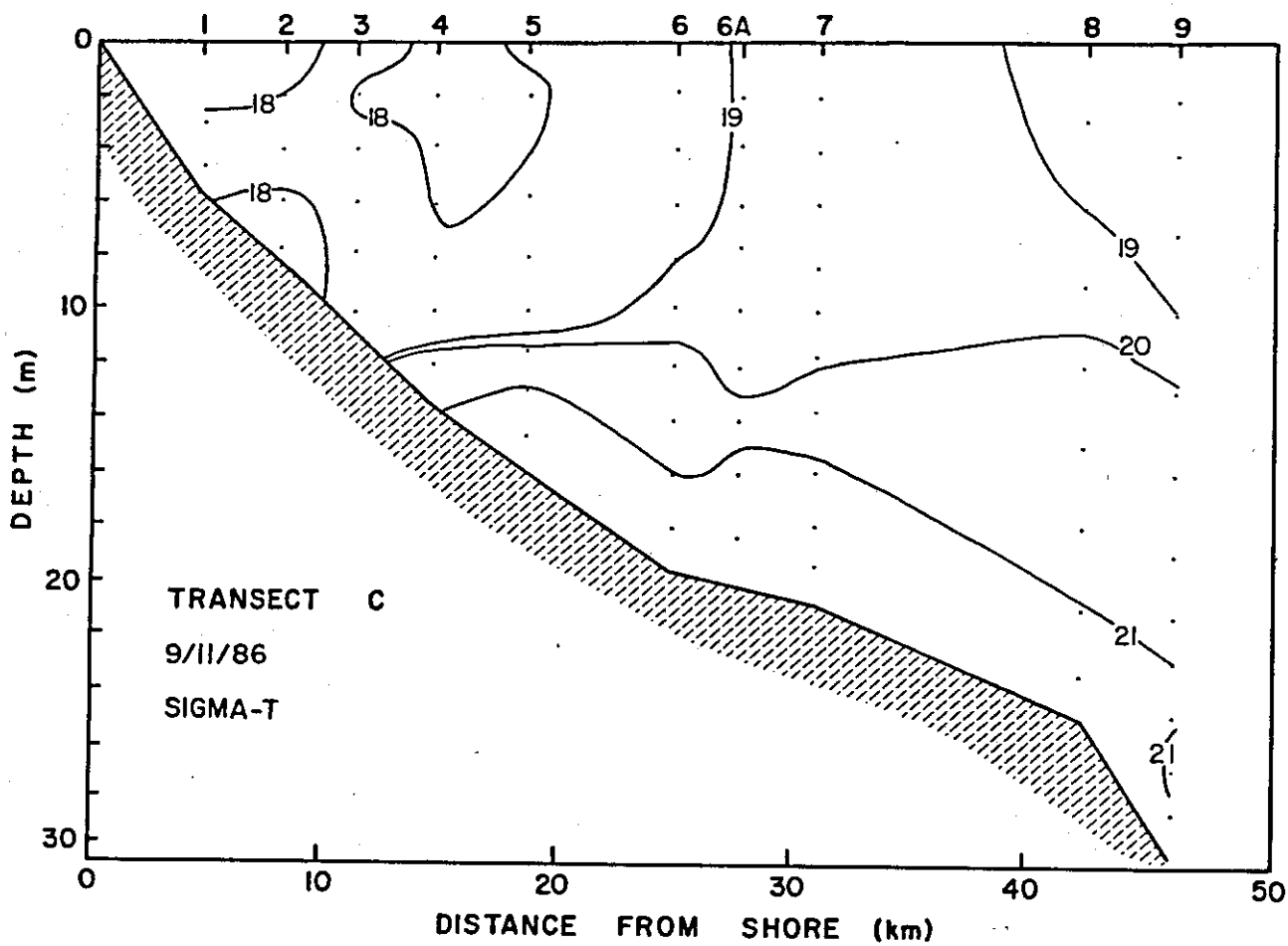
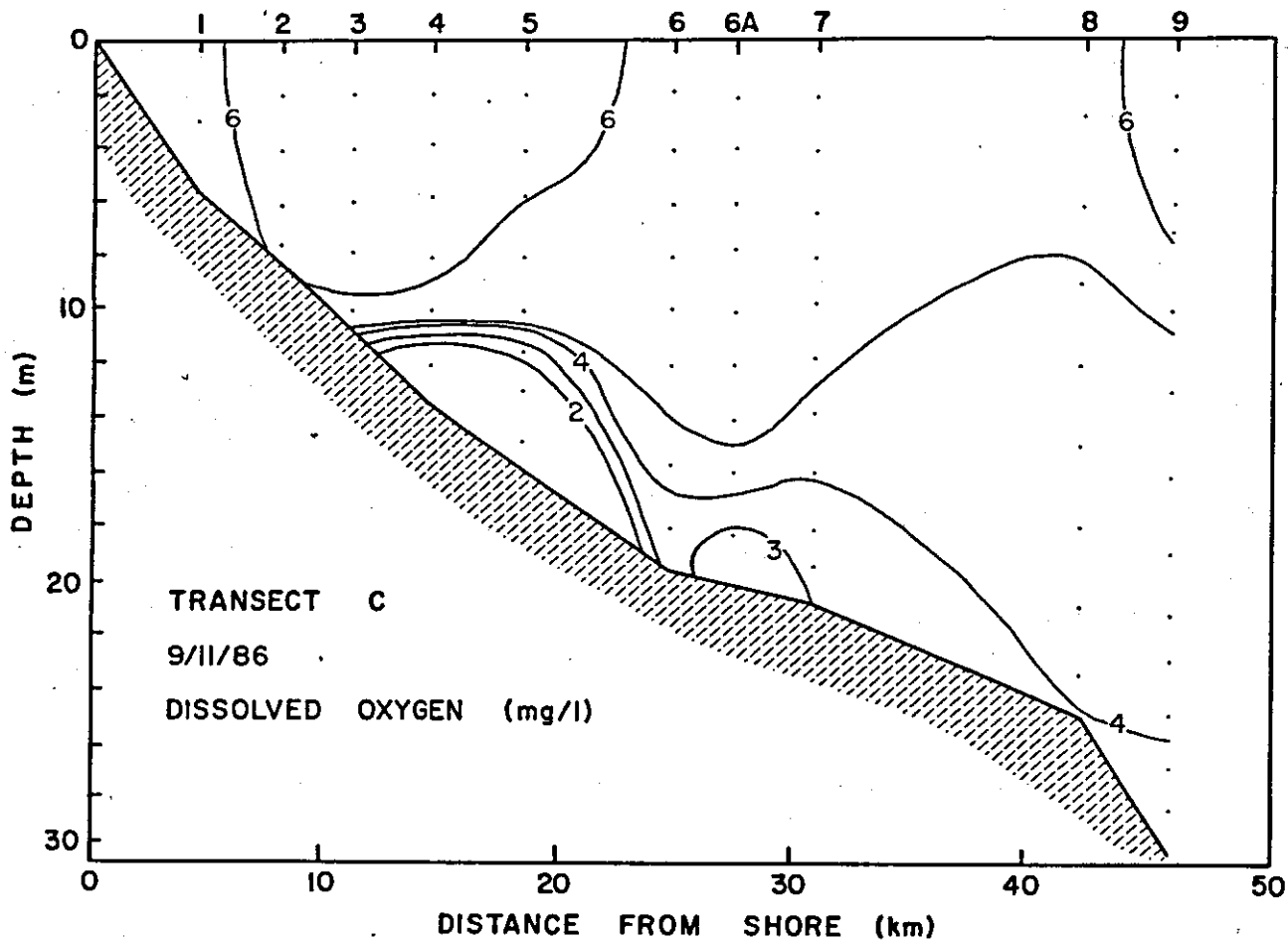


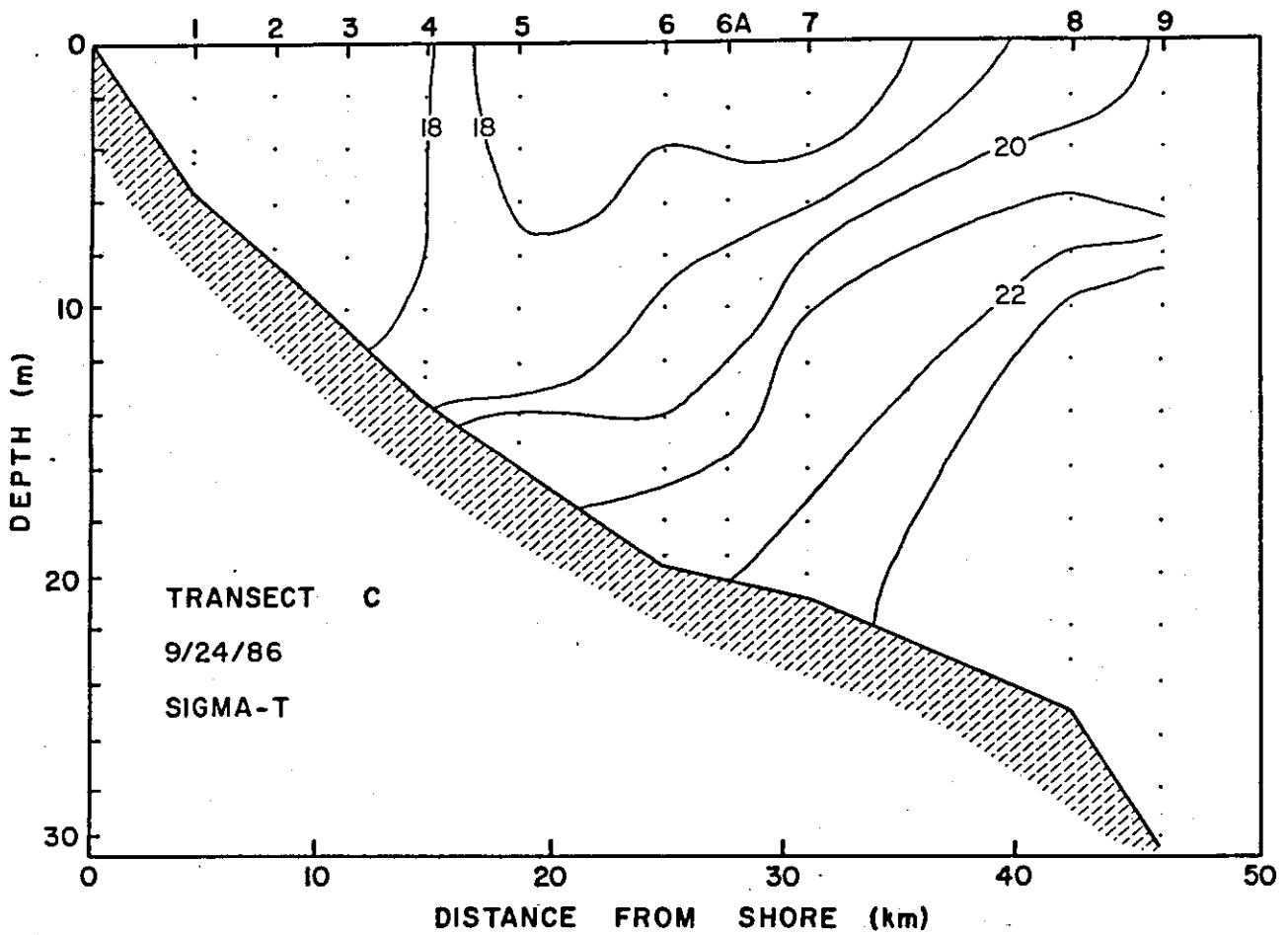
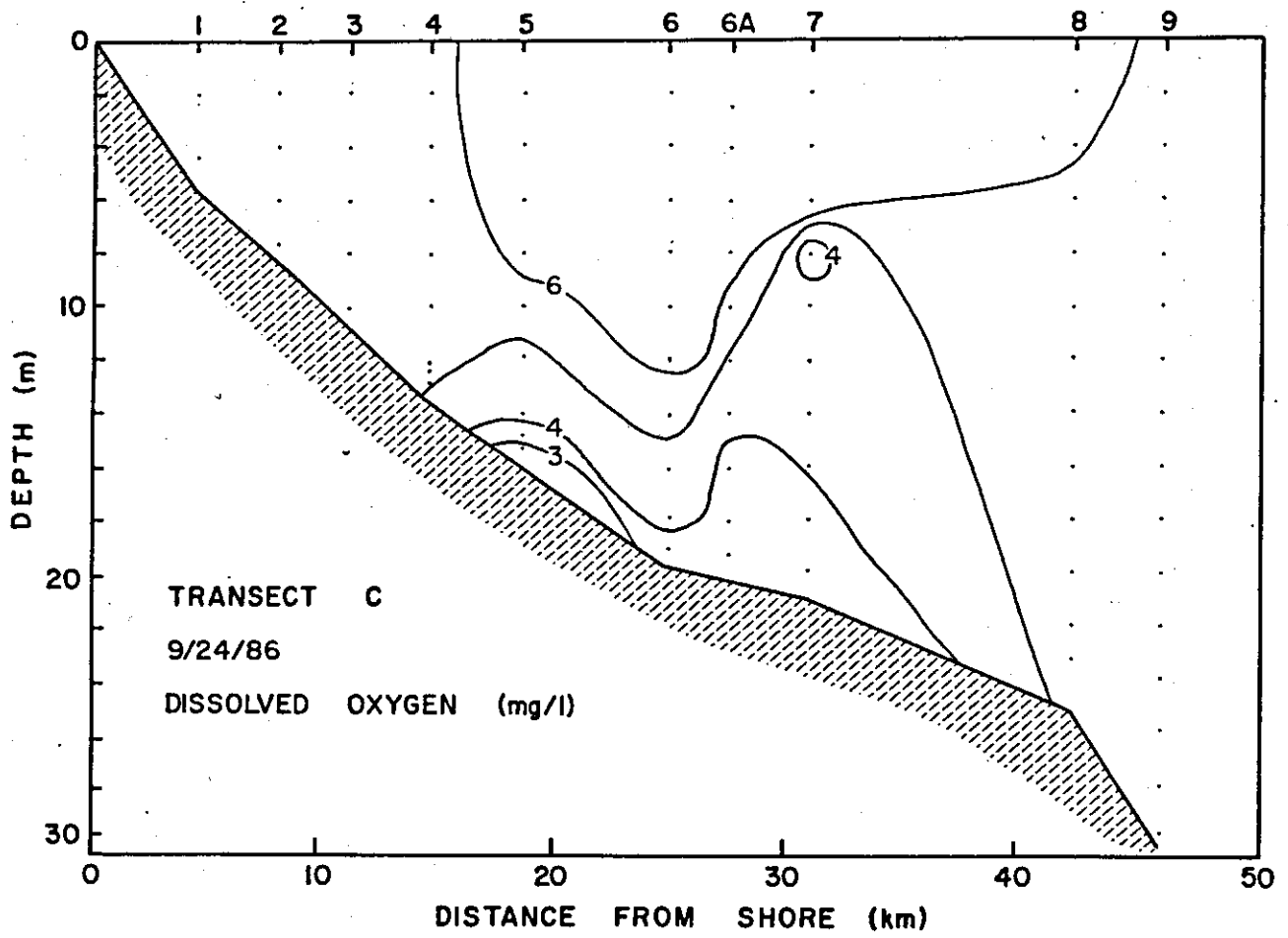


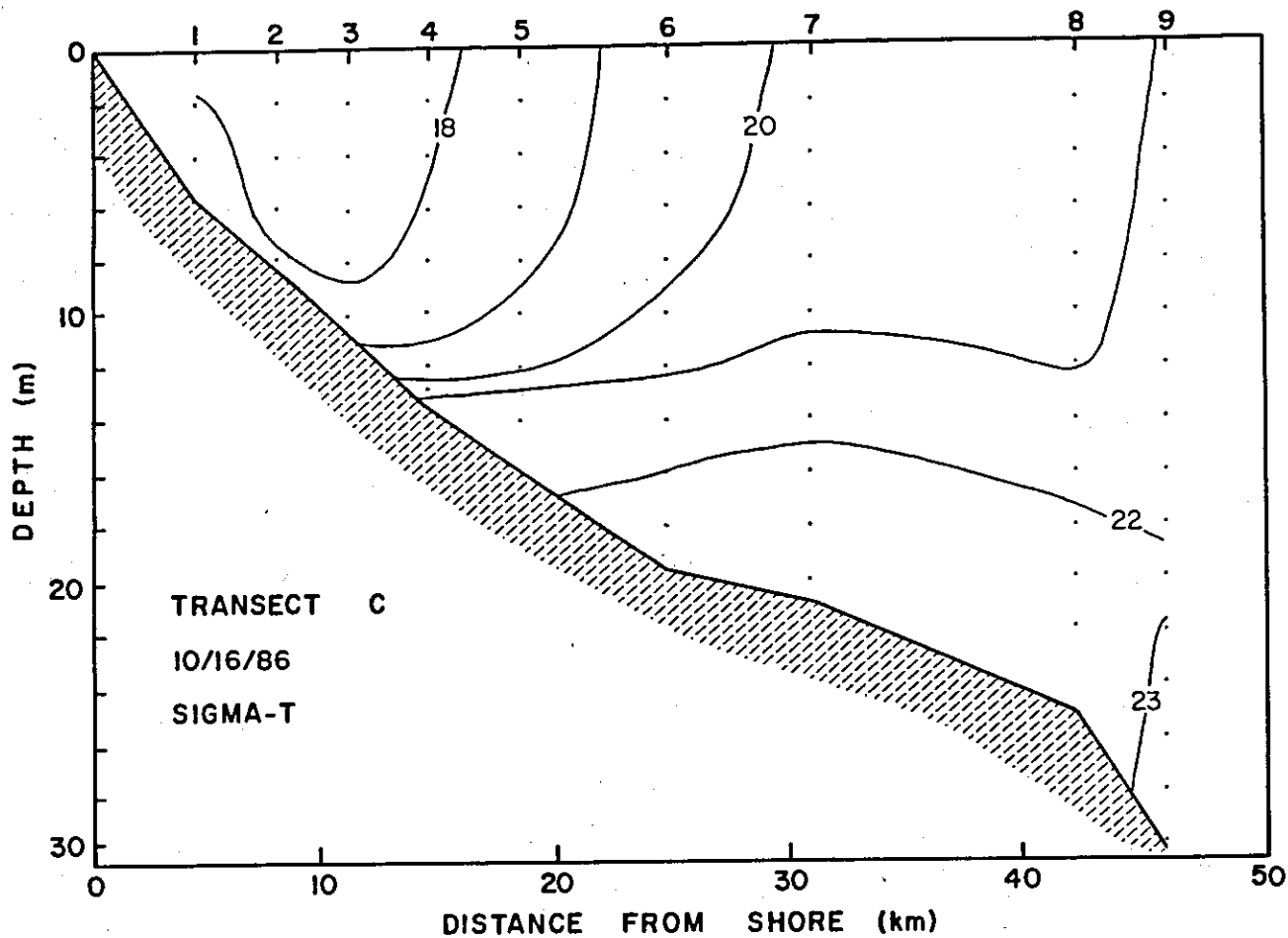
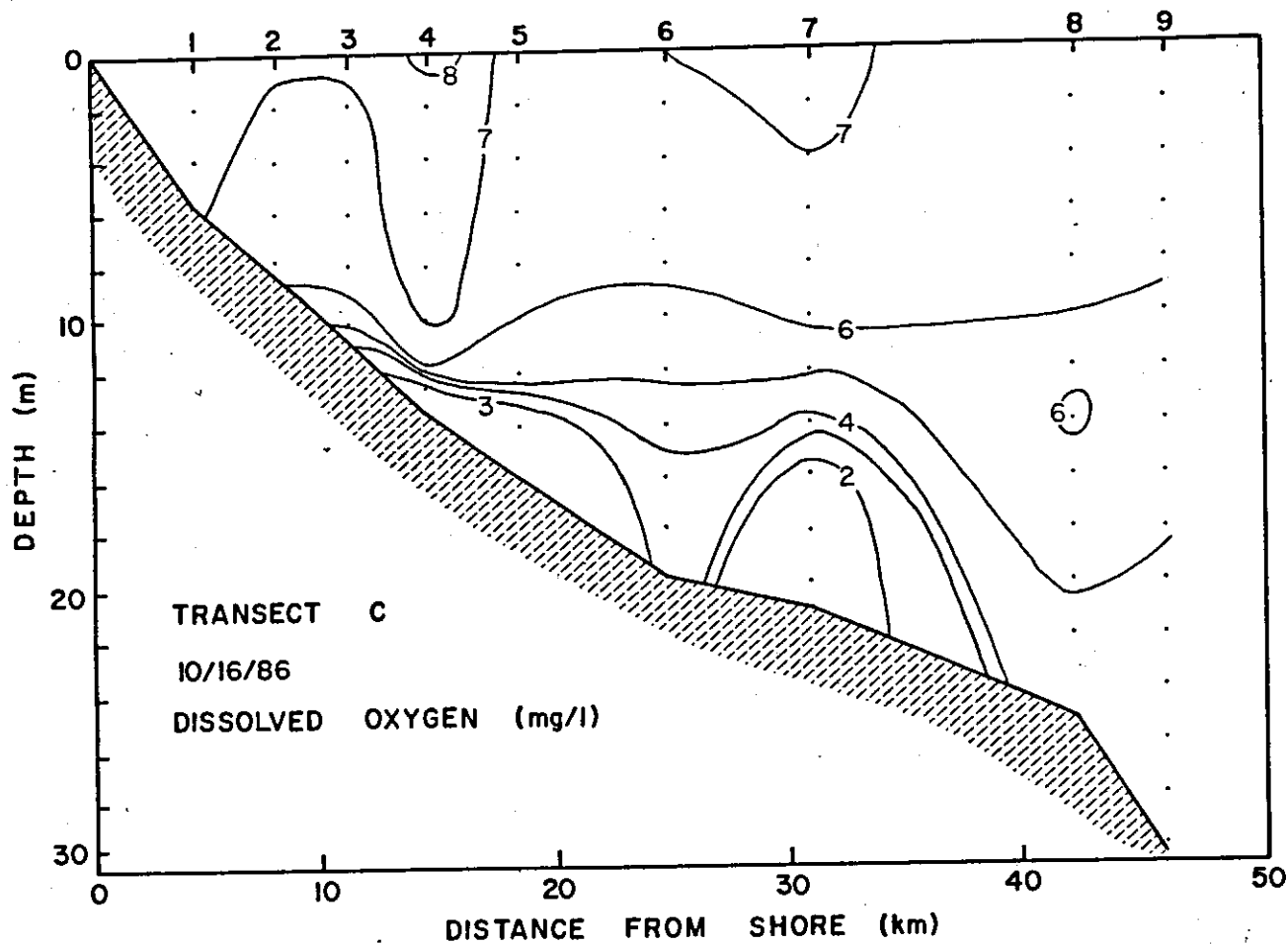


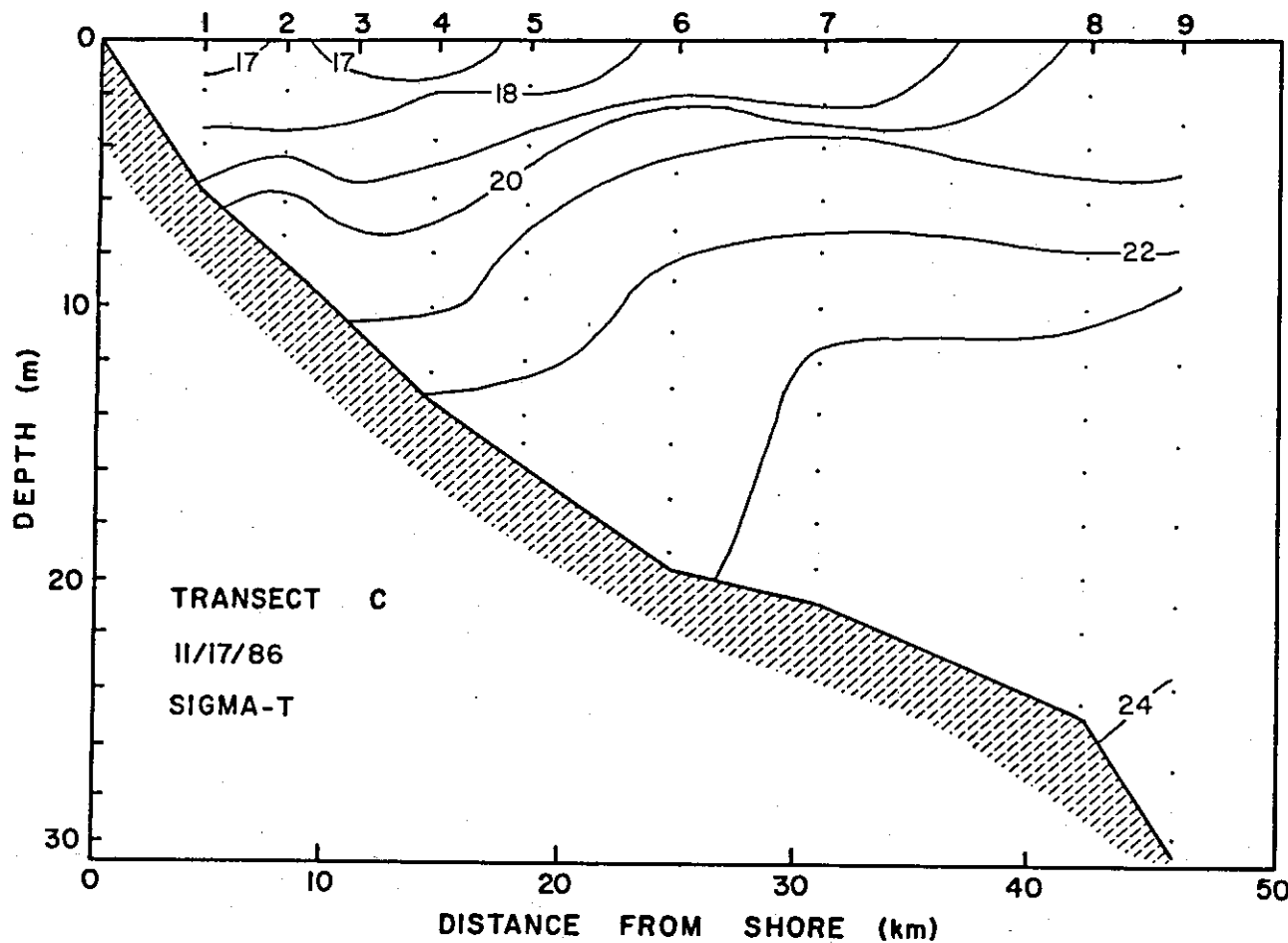
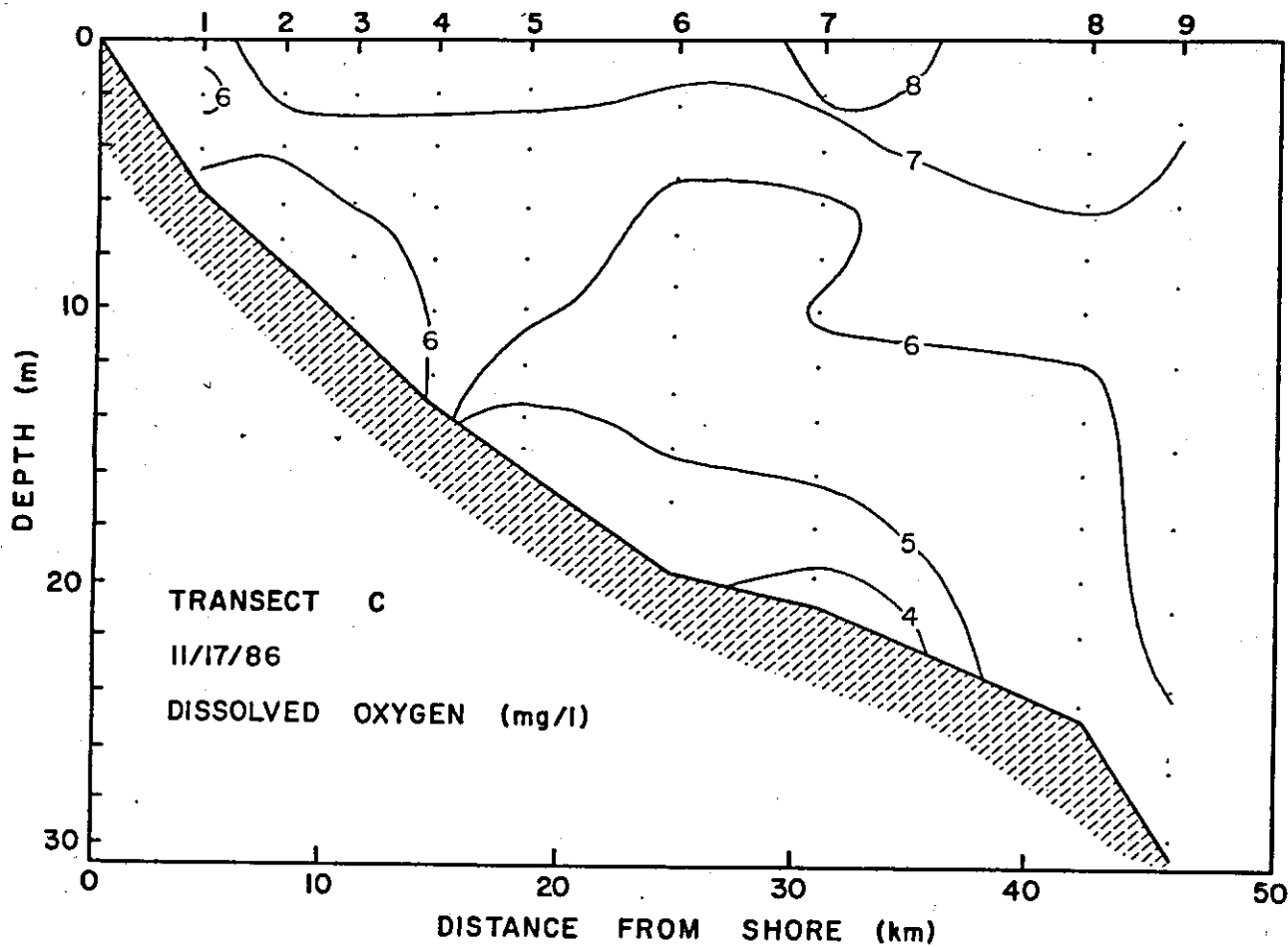












CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 11:00
Date: 01/30/86 Longitude: 90:29.7 W Secchi disk depth (m):##.#

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	15.01	29.14	37.26	21.49	8.88	104.6
1.0	15.03	29.21	37.36	21.54	8.90	105.0
3.0	15.01	29.21	37.34	21.54	8.94	105.4
5.0	15.00	29.21	37.33	21.54	8.90	104.9
6.7	15.01	29.28	37.42	21.60	8.92	105.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	22.37	2.10	24.47	2.0
6.7	23.94	2.52	26.46	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.5	0.5	0.2	0.4	3.4
6.7	2.9	0.6	0.2	0.3	2.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 12:20
Date: 01/30/86 Longitude: 90:31.2 W Secchi disk depth (m):###

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	15.22	29.50	37.84	21.72	9.50	112.7
2.0	15.21	29.57	37.92	21.78	9.60	113.9
3.8	15.22	29.57	37.93	21.77	9.54	113.2
6.0	15.18	29.57	37.89	21.78	9.49	112.5
8.6	15.14	29.50	37.77	21.73	9.40	111.3
10.0	15.13	29.57	37.85	21.79	9.43	111.7

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	27.20	0.04	27.24	2.2
10.0	28.00	1.80	29.80	2.1

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.2	0.2	0.1	0.5	0.9
10.0	2.6	0.2	0.1	0.7	1.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 13:50
Date: 01/30/86 Longitude: 90:31.5 W Secchi disk depth (m):##.#

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	16.26	29.94	39.26	21.83	8.45	102.7
2.0	16.26	29.94	39.26	21.83	8.45	102.7
4.0	16.26	29.94	39.26	21.83	8.45	102.7
6.0	16.25	29.87	39.17	21.78	8.45	102.6
7.9	16.24	29.94	39.24	21.84	8.42	102.3
9.8	16.21	30.08	39.38	21.95	8.12	98.6
11.5	16.22	30.08	39.39	21.95	8.00	97.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	11.88	0.00	11.88	2.2
11.5	11.56	2.19	13.75	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.2	3.1	0.5	0.7	5.8
11.5	4.3	4.1	0.7	0.6	7.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 14:55
Date: 01/30/86 Longitude: 90:29.4 W Secchi disk depth (m):##.#

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0:0	16.72	30.31	40.09	22.01	7.16	88.0
1.8	16.71	30.38	40.16	22.07	7.16	88.0
4.0	16.70	30.38	40.15	22.07	7.14	87.8
6.0	16.70	30.31	40.07	22.01	7.14	87.7
8.0	16.68	30.38	40.14	22.07	7.12	87.5
9.8	16.69	30.45	40.23	22.12	7.07	86.9
11.8	16.77	30.45	40.30	22.11	7.00	86.2
14.0	17.04	30.82	40.97	22.32	6.83	84.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.20	0.21	0.41	1.5
14.0	0.38	0.41	0.79	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.1	6.5	0.9	0.5	11.4
14.0	6.5	6.4	0.9	0.6	9.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:00
Date: 03/06/86 Longitude: 90:29.7 W Secchi disk depth (m): 3.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	17.18	29.45	39.50	21.25	7.58	93.6
1.0	17.17	29.45	39.49	21.25	7.58	93.5
2.0	17.16	29.38	39.40	21.20	7.58	93.5
3.0	17.18	29.45	39.50	21.25	7.58	93.6
4.0	17.17	29.45	39.49	21.25	7.59	93.7
5.1	17.14	29.45	39.46	21.26	7.55	93.1
6.0	17.14	29.38	39.38	21.20	7.64	94.2
7.0	17.13	29.45	39.45	21.26	7.65	94.3

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	1.69	0.96	2.65	1.8
7.0	0.98	0.50	1.48	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.9	3.4	0.6	1.0	2.5
7.0	7.0	2.7	0.6	1.0	22.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:50
Date: 03/06/86 Longitude: 90:31.2 W Secchi disk depth (m): 3.8

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	17.41	29.31	39.53	21.09	7.56	93.7
1.0	17.38	29.24	39.42	21.04	7.47	92.4
2.0	17.38	29.31	39.51	21.10	7.44	92.1
3.0	17.37	29.31	39.50	21.10	7.46	92.4
4.0	17.32	29.38	39.54	21.17	7.44	92.0
5.0	17.31	29.53	39.70	21.28	7.42	91.9
6.0	17.31	29.53	39.70	21.28	7.41	91.7
7.0	17.51	29.75	40.13	21.40	7.28	90.6
8.0	17.57	30.11	40.61	21.66	6.73	84.0
8.9	18.17	31.56	42.89	22.63	4.63	59.0
9.8	18.25	31.64	43.05	22.67	4.63	59.1

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.77	0.92	3.69	1.8
9.8	13.66	4.40	18.06	1.9

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.6	1.5	0.9	1.8	3.0
9.8	4.2	3.1	0.7	2.3	15.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 12:20
Date: 03/06/86 Longitude: 90:31.5 W Secchi disk depth (m):###

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	17.40	29.10	39.27	20.93	7.64	94.5
1.1	17.40	28.95	39.10	20.82	7.62	94.2
2.0	17.41	29.03	39.19	20.87	7.63	94.4
3.0	17.34	29.02	39.13	20.89	7.66	94.6
4.0	17.32	29.38	39.54	21.17	7.57	93.6
4.8	17.32	29.38	39.54	21.17	7.54	93.3
5.9	17.26	29.67	39.82	21.40	7.49	92.7
7.0	17.32	29.67	39.88	21.38	7.51	93.1
8.9	17.36	29.89	40.17	21.54	7.47	92.8
10.0	17.38	29.74	40.02	21.43	7.34	91.1
11.0	18.07	31.27	42.45	22.43	5.86	74.4
12.0	18.16	31.56	42.88	22.63	5.40	68.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.82	0.90	3.72	1.9
12.0	8.62	2.02	10.64	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.9	2.0	0.4	0.5	1.7
12.0	5.6	2.3	1.4	###	10.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 14:28
Date: 03/06/86 Longitude: 90:29.4 W Secchi disk depth (m):13.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	17.66	29.60	40.10	21.26	7.62	95.0
2.0	17.65	29.60	40.09	21.26	7.56	94.3
3.9	17.60	29.60	40.04	21.27	7.60	94.7
6.0	17.55	29.67	40.08	21.33	7.65	95.2
7.9	17.47	29.60	39.93	21.30	7.68	95.4
9.0	17.48	29.74	40.11	21.40	7.67	95.4
10.0	17.59	30.39	40.97	21.87	7.32	91.6
11.0	17.73	30.83	41.61	22.17	6.74	84.8
11.9	18.20	31.49	42.83	22.57	5.33	68.0
13.1	18.41	32.01	43.64	22.91	4.64	59.6
14.1	18.45	31.93	43.59	22.84	4.55	58.4
14.7	18.45	32.08	43.77	22.95	4.63	59.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.22	0.20	0.42	1.6
14.7	10.60	4.74	15.34	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.8	1.5	0.4	1.7	9.0
14.7	10.4	4.4	0.8	2.4	10.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:00
Date: 03/26/86 Longitude: 90:31.9 W Secchi disk depth (m): 0.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	17.98	26.39	35.58	18.73	8.25	101.6
1.0	17.97	26.53	35.74	18.84	8.19	100.9
1.9	17.96	26.46	35.65	18.79	8.17	100.6
3.1	17.94	26.39	35.54	18.74	8.12	99.9
4.6	17.90	26.46	35.60	18.80	8.10	99.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.61	5.48	21.09	1.8
4.6	15.04	5.78	20.82	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.2	10.2	0.6	0.9	3.0
4.6	4.8	10.8	0.6	0.8	4.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:35
Date: 03/26/86 Longitude: 90:29.7 W Secchi disk depth (m): 1.4

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	18.27	26.67	36.15	18.88	8.47	105.1
2.1	18.26	26.53	35.97	18.78	8.40	104.1
3.9	18.39	27.10	36.77	19.18	7.57	94.4
5.9	18.62	27.89	37.92	19.72	7.81	98.3
7.1	18.61	28.31	38.43	20.05	7.75	97.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	11.74	2.22	13.96	2.0
7.1	6.47	3.98	10.45	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.5	10.4	0.4	0.3	3.7
7.1	5.5	11.5	0.5	0.2	3.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:07
Date: 03/26/86 Longitude: 90:31.2 W Secchi disk depth (m): 4.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	18.29	26.96	36.52	19.09	7.94	98.7
2.1	18.25	26.96	36.48	19.10	7.96	98.9
4.0	18.25	27.03	36.57	19.16	7.93	98.6
6.0	18.11	27.03	36.46	19.19	7.89	97.8
7.0	18.07	26.95	36.34	19.14	7.82	96.8
8.0	18.40	28.95	39.03	20.58	4.60	58.0
9.0	19.22	31.20	42.49	22.09	3.36	43.6
10.0	19.30	32.00	43.54	22.68	2.36	30.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.17	1.06	4.23	1.8
10.0	4.85	2.92	7.77	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.8	15.4	0.8	0.3	0.3
10.0	7.8	12.2	0.7	0.4	4.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 10:45
Date: 03/26/86 Longitude: 90:31.5 W Secchi disk depth (m): 7.5

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	18.38	27.10	36.76	19.18	8.37	104.4
2.0	18.39	27.10	36.77	19.18	8.35	104.1
4.0	18.33	26.96	36.55	19.09	8.33	103.7
6.0	18.18	27.10	36.60	19.23	8.26	102.6
8.0	18.65	28.60	38.82	20.26	5.70	72.1
9.5	19.00	30.76	41.76	21.81	5.40	69.6
11.0	19.50	33.02	44.98	23.41	3.36	44.4
12.0	19.54	32.95	44.93	23.34	3.20	42.2

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.99	1.10	4.09	1.9
12.0	8.82	3.64	12.46	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.7	15.8	0.7	0.5	1.7
12.0	2.2	11.8	0.9	0.5	8.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:25
Date: 03/26/86 Longitude: 90:29.4 W Secchi disk depth (m): 9.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	18.53	27.03	36.80	19.09	8.45	105.6
1.8	18.51	27.03	36.78	19.10	8.66	108.2
4.0	18.38	27.03	36.68	19.13	8.65	107.8
6.0	18.30	27.31	36.96	19.36	8.30	103.4
8.1	18.96	30.40	41.28	21.55	10.16	130.6
10.2	18.98	31.55	42.71	22.42	8.86	114.8
12.0	19.30	33.82	45.75	24.06	5.35	70.7
13.0	19.53	34.12	46.34	24.23	3.26	43.3
14.3	19.54	34.12	46.35	24.23	3.26	43.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	4.10	1.40	5.50	1.9
14.3	4.55	3.96	8.51	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.6	18.9	1.1	0.2	2.5
14.3	2.2	15.1	1.0	0.5	16.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 12:25
Date: 03/26/86 Longitude: 90:27.7 W Secchi disk depth (m):##.#

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	19.54	30.99	42.53	21.85	11.18	145.9
1.8	19.54	30.99	42.53	21.85	11.18	145.9
4.0	19.46	30.99	42.45	21.87	11.10	144.6
6.0	19.33	30.98	42.33	21.90	10.52	136.7
8.2	19.33	31.64	43.13	22.39	10.13	132.2
9.8	19.27	32.36	43.95	22.96	9.19	120.3
12.0	19.33	33.31	45.16	23.67	8.25	108.7
14.0	19.28	33.82	45.73	24.07	7.45	98.4
16.0	19.58	34.05	46.30	24.17	6.95	92.4
17.0	19.58	34.71	47.10	24.67	5.65	75.4

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	35.34	4.68	40.02	2.0
17.0	7.55	2.33	9.88	1.9

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.9	5.0	0.5	0.5	5.2
17.0	1.3	8.5	0.6	0.5	7.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 13:20
Date: 03/26/86 Longitude: 90:23.5 W Secchi disk depth (m):##.#

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	19.70	32.66	44.73	23.08	9.47	125.2
2.0	19.68	32.59	44.62	23.03	9.51	125.6
3.8	19.44	32.58	44.38	23.09	9.55	125.6
6.0	19.21	32.87	44.51	23.36	9.23	121.0
8.1	19.17	33.01	44.65	23.48	8.24	108.0
10.5	19.30	33.45	45.31	23.79	7.20	94.9
13.0	19.35	33.75	45.71	24.00	6.82	90.1
15.0	19.38	33.97	46.01	24.16	6.54	86.6
17.0	19.45	34.19	46.35	24.31	6.17	81.9
19.0	19.52	34.27	46.51	24.35	5.20	69.2

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	17.47	4.68	22.15	1.9
19.0	4.41	2.60	7.01	1.7

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.7	5.4	0.5	0.6	2.5
19.0	1.5	9.0	0.6	0.3	22.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 14:35
Date: 03/26/86 Longitude: 90:16.6 W Secchi disk depth (m):##.#

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	19.59	32.44	44.35	22.94	10.22	134.7
1.7	19.58	32.44	44.34	22.94	10.20	134.4
4.0	19.52	32.44	44.29	22.96	10.18	134.0
6.0	19.12	32.57	44.07	23.16	10.07	131.6
8.0	19.05	33.30	44.88	23.73	8.60	112.7
10.0	19.54	34.12	46.35	24.23	7.55	100.4
12.0	19.73	34.57	47.08	24.52	7.36	98.5
13.9	19.83	34.87	47.54	24.72	7.37	99.0
15.8	20.03	35.02	47.93	24.79	7.08	95.5
17.8	20.14	35.17	48.23	24.87	6.55	88.6
20.0	20.19	35.25	48.37	24.92	6.50	88.1
23.0	20.08	35.39	48.44	25.06	5.58	75.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	18.86	6.84	25.70	1.8
23.0	3.92	3.28	7.20	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.3	2.5	0.3	0.3	4.5
23.0	2.5	6.8	0.5	0.4	4.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 15:25
Date: 03/26/86 Longitude: 90:14.0 W Secchi disk depth (m):###

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	19.58	32.59	44.52	23.05	10.21	134.6
2.0	19.59	32.59	44.53	23.05	10.25	135.2
4.0	19.50	32.58	44.44	23.07	10.15	133.6
6.0	19.15	32.57	44.10	23.15	9.32	121.8
8.0	19.14	33.23	44.89	23.66	7.21	94.6
10.0	19.42	34.19	46.32	24.32	4.20	55.7
12.0	19.60	35.00	47.48	24.89	4.18	55.9
14.0	19.91	35.53	48.43	25.21	5.83	78.7
15.5	20.12	35.76	48.93	25.33	5.95	80.8
18.0	20.16	35.84	49.06	25.38	5.77	78.4
20.0	20.13	35.84	49.03	25.38	5.47	74.3
22.0	20.08	35.69	48.80	25.28	5.30	71.9
24.0	20.05	35.83	48.94	25.40	5.21	70.7
26.0	19.99	36.05	49.15	25.58	5.06	68.6
28.2	19.93	35.75	48.72	25.37	4.85	65.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	22.72	5.53	28.25	1.9
28.2	0.87	1.90	2.77	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.8	3.1	0.4	0.5	4.0
28.2	6.0	15.0	0.9	0.4	8.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:20
Date: 04/18/86 Longitude: 90:31.9 W Secchi disk depth (m): 2.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.57	26.10	38.03	17.63	8.58	113.2
1.5	21.56	26.24	38.21	17.74	8.33	110.0
3.5	21.51	26.31	38.26	17.80	8.30	109.5

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	9.41	1.35	10.76	2.0
3.5	8.66	1.40	10.06	2.0

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.1	22.5	1.0	0.9	20.3
3.5	2.1	22.4	0.9	2.4	###

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 10:35
Date: 04/18/86 Longitude: 90:29.7 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.62	27.17	39.47	18.42	8.94	118.8
2.0	21.60	27.17	39.45	18.42	8.91	118.4
4.3	21.51	27.17	39.38	18.45	8.87	117.6
5.9	21.51	27.17	39.38	18.45	8.89	117.9
6.9	21.50	27.17	39.37	18.45	8.83	117.1

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	11.20	1.21	12.41	2.0
6.9	10.60	0.60	11.20	2.1

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.3	21.8	0.9	0.4	5.9
6.9	10.6	21.0	1.0	0.8	12.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 12:32
Date: 04/18/86 Longitude: 90:31.2 W Secchi disk depth (m): 3.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.94	28.68	41.71	19.47	9.36	126.2
1.5	21.93	28.68	41.70	19.48	9.52	128.4
3.0	21.91	28.68	41.69	19.48	9.53	128.5
5.0	21.91	28.75	41.78	19.53	9.48	127.8
7.1	21.64	29.17	42.10	19.93	9.40	126.4
9.0	21.45	30.32	43.41	20.85	5.02	67.7
9.9	21.15	31.33	44.42	21.69	1.93	26.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	22.04	1.96	24.00	2.0
9.9	14.58	2.02	16.60	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.2	7.4	0.4	1.5	##.#
9.0	##.#	##.#	##.#	0.6	12.8
9.9	16.6	11.4	1.0	0.5	##.#

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 13:40
Date: 04/18/86 Longitude: 90:31.5 W Secchi disk depth (m): 2.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	22.00	29.26	42.52	19.89	8.85	119.9
2.1	22.00	29.33	42.61	19.95	8.81	119.4
4.0	21.95	29.40	42.66	20.01	8.81	119.3
6.0	21.75	29.54	42.66	20.17	7.45	100.6
8.0	21.60	29.68	42.71	20.32	7.50	101.1
9.9	21.48	29.82	42.79	20.46	7.45	100.3
11.1	21.02	30.82	43.65	21.33	3.50	47.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	20.65	3.36	24.01	2.0
11.1	17.48	3.88	21.36	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.6	8.9	0.7	0.5	5.1
11.1	9.5	9.7	0.9	0.3	5.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 15:00
Date: 04/18/86 Longitude: 90:29.4 W Secchi disk depth (m): 4.2

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.95	29.54	42.85	20.12	9.18	124.5
2.3	21.95	29.76	43.13	20.29	9.19	124.8
4.0	21.94	29.69	43.03	20.23	9.15	124.1
6.0	21.89	29.54	42.79	20.14	9.19	124.4
8.0	21.80	29.68	42.90	20.27	9.38	126.9
10.0	21.68	30.04	43.25	20.57	10.28	139.1
12.0	21.69	30.33	43.63	20.79	10.30	139.6
14.1	21.28	31.11	44.27	21.49	6.30	85.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	7.30	2.12	9.42	1.9
14.1	21.72	7.37	29.09	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.8	7.1	0.5	0.3	1.0
14.1	4.5	3.0	0.4	0.7	20.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 16:43
Date: 04/18/86 Longitude: 90:27.7 W Secchi disk depth (m): 4.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.78	28.60	41.48	19.46	9.53	128.1
2.0	21.81	28.53	41.41	19.40	9.54	128.2
4.0	21.76	28.67	41.55	19.52	9.48	127.4
6.0	21.60	28.81	41.59	19.67	9.43	126.5
8.0	21.49	29.24	42.05	20.02	9.25	124.1
10.0	21.71	29.82	43.00	20.40	9.77	132.1
12.1	21.44	30.25	43.31	20.79	8.94	120.5
14.0	21.00	32.78	46.11	22.83	3.30	44.8
15.8	20.60	34.16	47.44	23.98	1.95	26.5
17.0	20.49	34.30	47.51	24.12	0.99	13.4
18.0	20.49	34.37	47.60	24.17	0.89	12.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	10.12	1.62	11.74	2.0
18.0	2.93	0.60	3.53	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.4	13.5	0.7	0.3	2.4
18.0	9.8	21.3	2.3	0.8	35.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 18:05
Date: 04/18/86 Longitude: 90:23.5 W Secchi disk depth (m):##.##

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.58	27.88	40.37	18.97	9.36	124.8
2.0	21.57	27.88	40.36	18.97	9.30	124.0
4.0	21.58	28.02	40.55	19.08	9.32	124.4
6.5	21.57	28.74	41.47	19.62	9.34	125.1
9.2	21.64	30.04	43.21	20.58	9.58	129.5
11.0	21.45	30.61	43.78	21.07	6.75	91.2
13.0	20.49	34.30	47.51	24.12	1.68	22.8
14.0	20.45	34.52	47.74	24.30	1.64	22.2
16.0	20.41	34.44	47.61	24.25	1.59	21.5
18.7	20.40	34.66	47.87	24.42	1.83	24.8

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	9.14	0.78	9.92	2.1
18.7	1.62	0.60	2.22	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.5	16.6	0.7	0.2	6.2
18.7	7.2	18.2	1.8	0.5	29.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 19:31
Date: 04/18/86 Longitude: 90:16.6 W Secchi disk depth (m):###

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.58	29.03	41.86	19.83	8.20	110.1
3.0	21.57	29.39	42.31	20.11	8.08	108.7
6.2	21.62	30.25	43.47	20.75	8.05	108.9
8.9	21.61	31.05	44.49	21.35	7.91	107.5
12.0	20.48	34.67	47.95	24.40	3.02	41.0
14.0	20.32	34.88	48.06	24.61	2.81	38.1
15.9	20.24	34.88	47.97	24.63	3.27	44.3
19.1	20.15	35.39	48.51	25.04	3.21	43.5
20.5	20.07	35.39	48.42	25.06	3.04	41.1
22.8	20.05	35.46	48.49	25.12	2.95	39.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.44	0.32	3.76	2.0
22.8	1.02	0.61	1.63	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.7	13.9	0.6	0.4	7.0
22.8	8.2	24.4	2.9	0.9	29.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 20:32
Date: 04/18/86 Longitude: 90:14.0 W Secchi disk depth (m):###

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.38	31.99	45.47	22.13	7.53	102.4
2.0	21.38	32.06	45.57	22.18	7.55	102.8
4.0	21.38	31.99	45.47	22.13	7.50	102.0
6.0	21.42	32.50	46.16	22.50	7.69	105.0
8.0	21.37	33.30	47.13	23.13	7.58	103.9
10.0	21.28	33.67	47.50	23.43	7.35	100.8
12.0	21.07	33.95	47.65	23.70	6.14	84.0
14.0	20.88	33.73	47.18	23.58	5.37	73.1
15.9	20.45	34.45	47.65	24.24	3.42	46.4
17.8	20.21	35.32	48.48	24.97	3.25	44.1
19.7	20.11	35.17	48.20	24.88	3.33	45.0
22.0	20.04	35.24	48.21	24.95	3.14	42.4
24.1	19.98	35.39	48.33	25.08	3.01	40.7
26.2	19.89	35.68	48.59	25.33	3.06	41.3
28.6	19.77	35.75	48.55	25.41	3.20	43.1

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	4.13	0.76	4.89	2.0
28.6	0.83	0.36	1.19	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.5	9.9	0.6	0.3	14.7
28.6	4.3	26.7	3.1	0.8	###

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 07:45
Date: 05/01/86 Longitude: 90:31.9 W Secchi disk depth (m): 1.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	24.11	29.26	43.88	19.30	7.60	107.1
2.0	24.10	29.33	43.97	19.36	7.64	107.7
3.0	24.09	29.13	43.66	19.21	7.66	107.9
4.6	24.08	29.26	43.85	19.31	7.71	108.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	16.27	1.46	17.73	2.1
4.6	16.30	4.14	20.44	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.7	2.8	0.3	1.0	11.9
4.6	9.1	5.3	0.4	1.1	7.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 08:50
Date: 05/01/86 Longitude: 90:29.7 W Secchi disk depth (m): 2.1

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.83	29.12	43.42	19.28	7.87	110.3
2.0	23.81	29.18	43.50	19.33	7.86	110.1
4.0	23.82	29.19	43.51	19.33	7.81	109.5
6.0	23.84	29.32	43.73	19.43	7.77	109.0
7.6	23.78	29.32	43.67	19.44	6.58	92.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.53	1.77	14.30	2.0
7.6	10.15	1.52	11.67	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.4	1.6	0.2	1.3	5.5
7.6	7.2	0.2	0.2	1.3	11.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 09:25
Date: 05/01/86 Longitude: 90:31.2 W Secchi disk depth (m): 2.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.58	28.31	42.03	18.74	9.98	138.6
2.2	23.58	28.31	42.03	18.74	9.98	138.6
4.0	23.68	28.65	42.61	18.96	8.71	121.4
6.0	23.63	28.98	43.05	19.23	7.16	99.9
8.0	22.90	29.43	43.06	19.77	4.67	64.4
10.2	22.60	29.62	43.07	20.00	4.44	61.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	25.50	1.77	27.27	2.1
10.2	23.12	6.18	29.30	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.6	1.6	0.1	0.6	0.8
10.2	13.2	0.7	0.1	1.3	9.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 10:30
Date: 05/01/86 Longitude: 90:31.5 W Secchi disk depth (m): 2.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.74	27.38	40.81	18.00	11.75	162.7
2.0	23.62	27.38	40.71	18.03	11.68	161.4
4.0	23.50	27.51	40.80	18.16	11.45	158.0
6.0	23.48	28.17	41.75	18.67	9.97	138.0
8.0	23.32	29.51	43.54	19.71	7.45	103.6
10.0	22.81	29.96	43.74	20.20	6.70	92.6
11.0	22.67	29.89	43.51	20.19	6.19	85.2
12.0	22.03	30.61	43.95	20.91	4.00	54.6
12.5	21.36	32.28	45.64	22.35	0.34	4.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	34.88	2.26	37.14	2.1
12.5	13.62	3.12	16.74	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.6	5.1	0.3	1.3	2.4
12.5	10.0	3.9	0.2	1.3	22.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:15
Date: 05/01/86 Longitude: 90:29.4 W Secchi disk depth (m): 1.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.80	27.19	40.57	17.83	12.85	178.0
2.0	23.72	27.12	40.40	17.80	12.90	178.3
4.2	23.34	27.11	40.08	17.90	12.18	167.2
6.0	23.54	27.31	40.54	18.00	11.37	156.8
8.0	23.30	29.37	43.33	19.62	8.35	116.0
10.0	22.52	29.75	43.18	20.12	6.23	85.5
11.0	22.44	30.02	43.49	20.35	7.01	96.2
12.0	22.28	30.35	43.81	20.64	6.40	87.7
13.0	20.97	33.90	47.46	23.69	0.05	0.7
14.0	20.68	34.57	48.07	24.28	0.16	2.2
15.0	20.70	34.30	47.73	24.06	0.19	2.6
15.5	20.71	34.51	48.01	24.22	0.26	3.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	44.42	3.15	47.57	2.1
15.5	2.12	1.71	3.83	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.1	4.4	0.9	0.8	5.0
15.5	5.5	12.2	0.2	1.3	33.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 13:00
Date: 05/01/86 Longitude: 90:27.7 W Secchi disk depth (m): 1.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.69	26.46	39.40	17.31	12.88	177.3
2.0	23.62	26.39	39.25	17.28	12.82	176.1
4.0	23.24	26.84	39.61	17.73	12.00	164.1
6.0	22.81	28.42	41.54	19.04	10.25	140.3
8.0	22.40	29.21	42.32	19.75	9.14	124.7
10.0	22.17	29.74	42.86	20.21	7.28	99.2
12.0	21.56	31.14	44.26	21.43	4.56	61.9
13.0	20.78	33.14	46.26	23.16	1.24	16.8
14.1	20.69	34.50	47.99	24.22	0.80	10.9
15.0	20.68	34.44	47.89	24.17	0.97	13.2
16.0	20.69	34.64	48.17	24.33	1.02	13.9
17.2	20.68	34.57	48.07	24.28	1.10	15.0
18.1	20.69	34.71	48.26	24.38	1.04	14.2
19.1	20.65	34.85	48.40	24.49	0.71	9.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	43.58	8.14	51.72	2.0
19.1	1.90	1.65	3.55	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.2	5.5	0.4	1.0	1.9
19.1	8.4	12.9	0.2	1.3	38.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 13:55
Date: 05/01/86 Longitude: 90:23.5 W Secchi disk depth (m): 1.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	24.37	24.57	37.11	15.70	13.59	187.4
2.0	24.00	24.82	37.21	16.00	13.76	188.7
4.0	23.78	27.52	41.04	18.09	11.04	153.1
5.8	23.79	28.58	42.61	18.89	9.25	129.1
8.0	23.03	29.36	43.08	19.69	7.44	102.8
10.0	21.73	30.60	43.67	20.98	5.71	77.6
11.1	21.03	31.73	44.58	22.02	2.60	35.1
12.0	20.66	33.55	46.68	23.50	1.63	22.1
14.0	20.63	34.85	48.38	24.50	1.25	17.0
16.0	20.64	34.78	48.30	24.44	1.23	16.8
16.8	20.65	34.85	48.40	24.49	1.23	16.8
18.1	20.66	34.92	48.51	24.54	1.21	16.5
19.0	20.52	35.12	48.63	24.73	1.33	18.1
20.5	20.53	35.12	48.64	24.73	1.38	18.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	42.74	5.18	47.92	2.1
20.5	1.92	1.11	3.03	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.6	8.7	1.1	0.6	3.8
20.5	7.1	12.8	0.6	1.1	31.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 15:15
Date: 05/01/86 Longitude: 90:16.6 W Secchi disk depth (m): 1.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	24.60	23.33	35.40	14.71	13.74	188.9
2.0	24.59	23.33	35.40	14.72	13.81	189.9
3.8	23.65	23.77	35.39	15.31	14.30	193.6
6.0	23.85	31.28	46.57	20.90	11.53	163.6
8.2	21.86	33.59	47.91	23.21	6.59	91.3
10.0	21.10	34.25	48.05	23.91	4.56	62.5
12.0	20.39	35.18	48.58	24.81	2.13	29.0
14.0	20.34	35.25	48.62	24.88	2.08	28.3
16.0	20.34	35.32	48.71	24.93	2.08	28.3
18.0	20.36	35.18	48.55	24.82	2.10	28.5
19.0	20.36	35.32	48.73	24.93	2.07	28.2
20.0	20.35	35.38	48.81	24.98	2.10	28.6
21.5	20.35	35.32	48.72	24.93	2.09	28.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	37.53	4.74	42.27	2.1
21.5	1.36	1.42	2.78	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.2	13.9	0.7	##.#	3.2
21.5	4.9	17.5	0.4	1.4	20.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 16:10
Date: 05/01/86 Longitude: 90:14.0 W Secchi disk depth (m):###

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	24.52	25.55	38.71	16.40	16.54	230.0
2.0	24.40	25.48	38.51	16.38	16.50	228.8
4.0	23.81	31.21	46.43	20.86	11.02	156.2
6.0	21.85	33.25	47.43	22.95	6.65	92.0
8.0	21.62	33.72	47.85	23.37	6.38	88.1
10.0	21.38	35.08	49.45	24.47	6.17	85.5
12.1	20.55	35.32	48.94	24.88	4.00	54.6
13.5	20.30	35.45	48.85	25.04	3.67	49.9
15.8	20.25	35.31	48.62	24.95	2.62	35.6
18.0	20.28	35.31	48.65	24.95	2.90	39.4
20.2	20.29	35.59	49.02	25.15	3.95	53.7
22.0	20.26	35.52	48.90	25.11	3.85	52.3
24.0	20.26	35.59	48.99	25.16	3.89	52.9
26.0	20.27	35.45	48.82	25.05	3.94	53.5
28.0	20.25	35.59	48.98	25.16	3.85	52.3
30.0	20.26	35.59	48.99	25.16	3.81	51.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	68.40	6.08	74.48	2.1
30.0	0.82	1.30	2.12	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.8	4.2	0.3	1.3	1.0
30.0	3.9	8.6	0.2	0.8	18.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 07:50
Date: 05/13/86 Longitude: 90:31.9 W Secchi disk depth (m): 0.9

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	25.78	25.00	39.84	15.62	6.12	86.8
2.0	25.70	25.07	39.87	15.69	5.92	83.9
4.0	24.77	27.11	42.00	17.50	4.75	67.0
5.2	24.30	27.89	42.67	18.21	3.39	47.6

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	13.61	2.43	16.04	2.0
5.2	4.75	4.61	9.36	1.6

NUTRIENT DATA
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Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.7	0.5	0.1	1.0	3.0
5.2	18.6	5.4	0.5	1.6	15.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:00
Date: 05/13/86 Longitude: 90:29.7 W Secchi disk depth (m): 1.3

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	25.95	24.08	38.65	14.88	6.74	95.4
2.1	25.76	25.35	40.33	15.89	6.90	98.1
3.9	25.13	26.41	41.31	16.86	7.59	107.3
5.1	24.97	26.97	41.97	17.33	6.05	85.5
6.1	23.75	28.73	43.35	19.01	2.95	41.2
7.1	23.09	31.68	46.69	21.42	2.62	36.8
8.0	22.83	32.33	47.29	21.99	1.28	17.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	10.96	2.98	13.94	1.9
8.0	7.98	10.20	18.18	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	15.0	7.2	0.5	0.8	12.5
8.0	19.2	2.6	0.4	1.7	36.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 09:50
Date: 05/13/86 Longitude: 90:31.2 W Secchi disk depth (m): 1.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	25.89	24.44	39.11	15.16	7.30	103.4
2.0	25.80	24.65	39.35	15.34	7.26	102.8
4.1	25.00	25.69	40.20	16.36	7.55	106.0
6.0	24.63	30.65	46.74	20.19	5.68	81.5
8.0	24.48	32.54	49.16	21.67	5.58	80.7
9.1	24.30	33.94	50.85	22.77	5.53	80.4
10.3	22.25	35.33	50.58	24.42	0.45	6.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	11.94	0.74	12.68	2.1
10.3	6.16	5.54	11.70	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.2	8.1	0.6	0.8	2.9
10.3	10.0	3.4	0.5	1.6	23.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 10:51
Date: 05/13/86 Longitude: 90:31.5 W Secchi disk depth (m): 2.3

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.17	24.80	39.85	15.35	8.08	115.3
2.1	26.10	24.72	39.69	15.31	8.12	115.7
4.0	25.62	25.28	40.11	15.87	9.04	128.1
6.0	24.51	31.01	47.12	20.50	6.03	86.5
8.0	24.42	33.72	50.68	22.57	5.90	85.8
10.0	23.85	35.10	51.94	23.79	5.43	78.8
11.0	22.52	35.49	51.06	24.46	2.83	40.2
12.8	22.39	35.56	51.01	24.55	2.38	33.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	10.56	1.02	11.58	2.1
12.8	4.69	1.95	6.64	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	12.0	10.2	0.7	1.0	5.3
12.8	14.8	6.0	1.3	1.6	19.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:40
Date: 05/13/86 Longitude: 90:29.4 W Secchi disk depth (m): 2.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.25	24.73	39.82	15.27	9.95	142.2
2.0	26.11	24.65	39.60	15.26	10.00	142.5
3.9	25.45	26.20	41.28	16.61	9.50	134.9
5.9	24.70	31.23	47.60	20.61	6.55	94.4
8.0	24.21	35.42	52.72	23.92	6.00	87.8
10.0	23.63	35.62	52.38	24.24	5.55	80.4
12.0	23.10	35.44	51.60	24.26	5.70	81.7
13.0	22.75	35.65	51.50	24.52	4.50	64.2
14.0	22.03	35.69	50.81	24.75	2.15	30.2
15.3	22.02	35.69	50.80	24.76	2.00	28.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	20.90	0.64	21.54	2.1
15.3	2.06	2.36	4.42	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	11.8	5.9	0.6	1.0	2.9
15.3	5.9	7.5	1.2	1.1	29.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 13:25
Date: 05/13/86 Longitude: 90:27.7 W Secchi disk depth (m): 2.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.97	23.12	38.01	13.85	10.02	143.8
2.0	26.80	23.40	38.29	14.11	10.04	143.8
4.1	25.12	29.35	45.41	19.08	8.90	127.9
6.0	24.74	34.40	51.92	22.99	6.25	91.8
8.2	24.44	35.65	53.27	24.02	6.44	94.8
10.0	24.39	36.02	53.71	24.32	6.50	95.8
12.0	24.25	36.02	53.55	24.36	6.47	95.1
14.0	23.80	35.92	52.95	24.42	5.80	84.5
16.0	22.84	36.03	52.08	24.78	5.08	72.7
18.0	22.66	35.94	51.78	24.77	4.81	68.6
19.0	22.68	35.94	51.81	24.76	4.84	69.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.26	1.04	16.30	2.1
19.0	9.50	1.65	11.15	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.6	8.9	0.6	0.8	1.5
19.0	5.1	2.4	0.5	0.6	10.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 14:40
Date: 05/13/86 Longitude: 90:23.5 W Secchi disk depth (m): 3.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.07	23.48	38.61	14.09	10.05	144.7
2.0	26.34	23.74	38.45	14.51	10.15	144.5
4.0	24.85	31.90	48.65	21.07	7.65	111.0
6.0	24.82	34.26	51.81	22.86	6.39	93.9
8.1	24.64	34.84	52.41	23.35	6.26	92.0
10.0	24.56	34.84	52.32	23.37	6.21	91.2
11.9	24.42	35.50	53.05	23.92	6.46	94.9
14.1	23.39	35.60	52.11	24.30	4.70	67.8
16.0	23.47	35.68	52.30	24.33	5.00	72.3
18.1	23.43	35.76	52.35	24.40	4.88	70.5
19.0	23.24	35.60	51.94	24.34	4.34	62.4
20.3	21.75	35.61	50.41	24.77	1.12	15.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.48	0.98	16.46	2.1
20.3	3.46	2.68	6.14	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	11.5	11.7	0.7	1.0	4.3
20.3	17.6	10.4	2.1	1.0	28.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 15:50
Date: 05/13/86 Longitude: 90:16.6 W Secchi disk depth (m): 2.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.67	22.76	37.26	13.68	10.72	152.6
2.0	26.60	23.11	37.72	13.96	10.67	152.0
4.0	25.64	23.16	37.09	14.28	10.17	142.4
6.0	24.55	30.35	46.26	20.00	7.75	110.8
8.0	24.19	33.71	50.44	22.63	5.72	82.8
10.0	23.22	34.71	50.77	23.67	3.72	53.2
12.0	22.13	35.25	50.35	24.39	4.47	62.9
14.0	21.24	35.95	50.32	25.17	3.28	45.5
16.0	21.09	36.02	50.25	25.27	3.53	48.9
18.0	20.97	36.17	50.30	25.41	2.87	39.7
19.0	20.88	36.16	50.20	25.43	2.16	29.8
20.0	20.82	36.01	49.96	25.33	1.72	23.7
21.2	20.85	36.01	49.99	25.32	1.53	21.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	20.22	0.42	20.64	2.2
21.2	1.50	3.04	4.54	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	8.4	11.5	0.6	0.6	1.0
21.2	3.6	18.5	0.3	1.0	30.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 16:55
Date: 05/13/86 Longitude: 90:14.0 W Secchi disk depth (m): 2.3

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.18	23.06	38.07	13.74	10.69	153.9
2.0	27.10	23.05	38.01	13.76	10.75	154.5
4.0	25.98	23.24	37.45	14.24	11.25	158.6
6.0	24.50	31.30	47.50	20.72	7.50	107.8
8.0	23.25	34.19	50.12	23.27	4.85	69.2
10.0	22.32	35.33	50.65	24.40	4.83	68.2
12.1	22.15	35.99	51.32	24.95	5.55	78.4
14.0	22.10	36.07	51.36	25.02	5.88	83.0
16.0	21.70	36.20	51.10	25.23	5.48	76.9
18.0	21.23	36.25	50.68	25.40	4.09	56.9
20.0	21.45	36.56	51.29	25.57	5.85	81.8
22.0	21.29	36.48	51.02	25.56	5.24	73.0
24.0	20.81	36.46	50.49	25.67	3.06	42.3
25.0	20.67	36.30	50.16	25.59	2.46	33.8
26.0	20.50	36.29	49.97	25.63	1.67	22.9
27.0	20.51	36.22	49.89	25.57	1.50	20.6
28.0	20.53	36.22	49.91	25.57	1.51	20.7
29.0	20.55	36.22	49.94	25.56	1.51	20.7
30.1	20.60	36.22	49.99	25.55	1.55	21.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	19.10	0.62	19.72	2.1
30.1	0.62	1.25	1.87	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	8.0	11.0	0.6	1.0	3.5
30.1	4.8	11.3	0.3	1.0	30.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 07:45
Date: 05/28/86 Longitude: 90:31.9 W Secchi disk depth (m): 1.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.74	24.34	40.41	14.52	7.29	106.8
2.0	27.72	24.34	40.39	14.53	7.26	106.3
4.0	27.66	24.48	40.55	14.65	7.28	106.6
4.6	27.60	24.69	40.82	14.83	7.32	107.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.18	2.44	14.62	2.0
4.6	12.14	2.33	14.47	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.0	4.4	1.1	2.1	3.0
4.6	7.8	1.5	0.3	1.7	2.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 08:45
Date: 05/28/86 Longitude: 90:29.7 W Secchi disk depth (m): 3.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.44	23.55	39.01	14.03	7.14	103.6
2.0	27.43	23.62	39.10	14.09	7.14	103.6
3.8	27.64	24.48	40.54	14.66	6.50	95.1
6.0	26.16	30.85	48.45	19.88	4.59	67.8
7.0	25.76	32.08	49.78	20.93	3.65	53.9
8.1	25.62	32.44	50.14	21.25	3.01	44.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.56	1.42	4.98	1.9
8.1	1.62	3.53	5.15	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	9.6	##.#	##.#	1.0	1.2
8.1	16.3	0.0	0.2	1.1	21.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 09:25
Date: 05/28/86 Longitude: 90:31.2 W Secchi disk depth (m): 4.9

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.24	27.69	44.92	17.18	7.20	106.5
1.9	27.12	28.26	45.65	17.65	6.84	101.3
4.0	27.11	28.69	46.27	17.97	6.81	101.1
6.0	26.70	30.43	48.37	19.40	6.58	97.9
8.0	25.63	32.37	50.05	21.19	6.41	94.6
9.0	25.56	32.59	50.28	21.37	6.32	93.3
10.4	25.42	32.80	50.44	21.58	3.54	52.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	4.76	0.67	5.43	2.0
10.4	1.70	2.24	3.94	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.0	0.3	0.3	1.6	1.0
10.4	13.0	0.1	0.1	1.2	13.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 10:25
Date: 05/28/86 Longitude: 90:31.5 W Secchi disk depth (m): 8.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.34	28.34	45.96	17.64	6.68	99.4
1.7	26.89	28.32	45.54	17.77	6.69	98.7
4.0	26.21	31.65	49.63	20.47	6.58	97.7
6.0	25.89	32.16	50.01	20.95	6.27	92.9
8.0	25.78	32.30	50.10	21.09	6.14	90.8
9.8	25.17	32.79	50.18	21.65	4.40	64.6
11.0	25.00	33.15	50.50	21.97	3.65	53.5
11.8	25.00	33.15	50.50	21.97	2.10	30.8
12.8	24.97	33.30	50.67	22.09	1.99	29.2

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.88	0.13	1.01	2.0
12.8	1.04	1.68	2.72	1.5

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.2	1.0	0.2	##.#	4.8
12.8	13.2	1.0	0.2	0.9	22.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:20
Date: 05/28/86 Longitude: 90:29.4 W Secchi disk depth (m): 9.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.43	29.14	47.20	18.21	6.97	104.3
2.0	27.24	29.57	47.64	18.59	6.76	101.1
4.0	26.35	31.37	49.36	20.21	6.36	94.6
6.0	25.94	31.94	49.76	20.77	6.50	96.2
8.0	25.38	32.36	49.79	21.26	6.59	96.8
10.0	25.08	32.64	49.88	21.56	6.52	95.4
12.0	25.30	33.24	50.92	21.94	6.50	95.8
14.0	24.74	33.36	50.53	22.21	3.90	57.0
15.8	24.68	33.51	50.66	22.33	2.46	35.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.26	0.14	2.40	2.1
15.8	1.30	0.88	2.18	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	10.8	0.1	0.4	0.6	10.8
15.8	11.0	0.7	0.1	1.1	15.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 12:30
Date: 05/28/86 Longitude: 90:27.7 W Secchi disk depth (m): 6.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.08	29.09	47.72	17.96	7.41	112.2
2.0	27.28	29.72	47.89	18.69	7.19	107.7
4.2	26.08	31.72	49.60	20.57	6.68	99.0
6.1	25.00	32.27	49.30	21.30	6.57	95.8
8.0	24.74	32.85	49.83	21.82	6.39	93.0
10.0	25.21	33.31	50.92	22.02	6.78	99.8
12.0	25.03	33.52	51.03	22.24	6.26	92.0
13.8	24.93	33.52	50.93	22.27	6.02	88.3
16.6	24.79	33.51	50.78	22.31	4.21	61.6
18.1	24.67	33.58	50.75	22.39	2.59	37.8
19.0	24.62	33.58	50.70	22.41	2.20	32.1

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.89	0.23	4.12	2.1
19.0	1.75	0.85	2.60	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	9.2	0.1	0.1	0.6	2.4
19.0	14.9	2.6	0.2	1.3	25.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 14:35
Date: 05/28/86 Longitude: 90:23.5 W Secchi disk depth (m): 7.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.96	31.14	50.58	19.53	6.85	104.7
2.0	27.14	31.32	50.06	19.93	6.85	103.3
4.0	26.06	32.31	50.39	21.01	6.91	102.8
6.0	25.75	32.89	50.88	21.54	6.64	98.5
8.0	25.57	33.47	51.51	22.04	6.30	93.5
10.0	24.65	33.29	50.33	22.18	5.38	78.4
12.0	24.63	33.43	50.51	22.29	5.38	78.4
14.0	24.60	33.51	50.58	22.36	5.72	83.4
15.8	24.60	33.73	50.87	22.52	5.42	79.1
18.8	24.56	33.87	51.03	22.65	4.50	65.7
20.0	24.47	34.17	51.33	22.89	2.65	38.7
20.7	23.93	34.44	51.14	23.26	0.18	2.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	1.92	0.20	2.12	2.1
20.7	2.74	0.94	3.68	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.6	1.1	0.4	0.5	7.0
20.7	13.8	0.0	0.2	1.1	24.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 16:00
Date: 05/28/86 Longitude: 90:16.6 W Secchi disk depth (m): 7.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.94	31.84	52.56	19.74	6.90	107.8
2.4	26.91	32.12	50.97	20.61	6.91	104.2
3.8	26.24	32.39	50.68	21.02	6.89	102.8
5.5	26.19	32.69	51.04	21.25	6.87	102.6
8.2	25.54	33.99	52.18	22.44	7.01	104.2
10.2	25.34	34.35	52.47	22.77	6.96	103.4
12.0	25.20	34.79	52.92	23.15	6.87	102.0
14.1	25.09	35.01	53.10	23.34	6.83	101.3
16.1	24.93	35.30	53.32	23.61	6.81	100.9
18.2	24.03	35.26	52.33	23.85	5.99	87.3
20.0	23.87	35.33	52.25	23.95	5.50	79.9
22.0	23.60	35.32	51.95	24.02	4.39	63.5
24.4	23.53	35.39	51.97	24.09	3.28	47.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	1.55	0.23	1.78	2.0
24.4	1.12	1.26	2.38	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.3	0.1	0.1	0.6	6.5
24.4	9.4	4.7	2.0	0.9	19.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 16:45
Date: 05/28/86 Longitude: 90:14.0 W Secchi disk depth (m):10.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.18	31.84	50.83	20.31	6.91	104.6
2.2	27.07	32.06	51.03	20.51	6.92	104.7
4.0	26.41	32.33	50.76	20.92	6.95	104.0
6.0	26.20	32.83	51.26	21.36	7.00	104.7
8.0	25.37	34.28	52.40	22.71	7.10	105.4
10.1	25.10	34.71	52.71	23.12	6.96	103.1
12.3	24.92	35.08	53.01	23.45	6.89	101.9
13.9	24.76	35.30	53.13	23.66	6.91	102.1
15.9	24.69	35.66	53.55	23.96	6.88	101.7
19.0	23.99	35.78	52.97	24.26	6.59	96.2
21.5	23.37	35.75	52.28	24.42	5.65	81.6
23.8	23.25	35.67	52.05	24.39	5.05	72.7
26.0	22.93	35.73	51.80	24.53	5.05	72.3
28.2	22.46	35.86	51.47	24.76	3.78	53.7
30.0	22.42	35.71	51.24	24.66	3.10	44.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.78	0.21	0.99	1.9
30.0	0.76	1.30	2.06	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.9	0.1	0.4	1.0	1.0
30.0	6.7	7.8	3.0	1.1	21.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:02
Date: 06/11/86 Longitude: 90:31.9 W Secchi disk depth (m): 0.8

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.33	22.69	39.10	12.78	6.64	99.1
1.5	29.30	22.69	39.07	12.79	6.63	98.9
2.6	29.29	22.76	39.17	12.85	6.62	98.8
4.3	29.23	22.76	39.13	12.87	6.56	97.8

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	11.65	2.58	14.23	2.0
4.3	10.26	3.60	13.86	1.9

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	8.5	9.9	0.2	0.6	12.3
4.3	4.6	10.9	0.2	0.5	11.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 10:10
Date: 06/11/86 Longitude: 90:29.7 W Secchi disk depth (m): 1.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.14	23.32	39.93	13.31	6.56	98.0
2.0	29.13	23.39	40.03	13.37	6.57	98.1
4.0	29.00	23.95	40.79	13.83	6.00	89.7
6.0	27.60	29.00	47.15	18.05	3.65	54.8
7.0	27.05	29.49	47.36	18.59	2.40	35.8
7.8	27.10	29.64	47.61	18.68	1.31	19.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	10.92	1.97	12.89	2.0
7.8	5.38	7.61	12.99	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	16.4	12.6	0.4	0.9	7.0
7.8	##.##	12.8	1.2	1.1	18.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 11:35
Date: 06/11/86 Longitude: 90:31.2 W Secchi disk depth (m): 2.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.38	23.54	40.45	13.40	7.49	112.5
2.2	29.28	23.53	40.37	13.43	7.50	112.4
4.0	28.70	24.86	41.95	14.61	6.96	104.0
6.0	27.86	28.00	45.91	17.21	4.12	61.8
7.8	27.51	29.36	47.59	18.35	3.30	49.5
9.0	25.99	31.57	49.30	20.48	0.13	1.9
9.8	25.94	31.94	49.76	20.77	0.17	2.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	9.52	1.76	11.28	2.0
9.8	4.44	7.66	12.10	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.7	5.4	0.1	0.4	1.8
9.8	25.3	2.3	0.2	2.9	42.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 12:26
Date: 06/11/86 Longitude: 90:31.5 W Secchi disk depth (m): 1.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.88	22.35	38.97	12.35	7.35	110.6
1.7	29.75	23.26	40.31	13.08	7.34	110.8
4.1	28.12	25.49	42.42	15.26	6.15	91.3
6.0	27.80	29.23	47.66	18.15	5.44	82.0
7.8	28.06	30.33	49.51	18.90	5.75	87.6
9.0	26.30	32.54	50.95	21.11	4.54	67.9
10.4	25.37	33.84	51.80	22.37	0.88	13.0
11.7	25.27	33.83	51.69	22.40	0.34	5.0
12.7	24.92	34.34	52.01	22.88	0.15	2.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	13.82	2.18	16.00	2.0
12.7	2.76	3.42	6.18	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.6	13.3	0.5	0.6	4.9
12.7	23.3	2.5	0.2	2.5	40.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 13:45
Date: 06/11/86 Longitude: 90:29.4 W Secchi disk depth (m): 1.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.39	23.89	41.00	13.66	8.02	120.7
2.0	29.20	23.96	40.96	13.77	8.12	121.8
4.1	28.57	26.15	43.78	15.61	7.06	106.1
6.0	28.19	29.90	49.00	18.53	6.25	95.3
8.0	27.67	32.16	51.76	20.39	5.62	86.0
9.1	27.32	32.88	52.44	21.05	5.32	81.2
10.0	26.27	33.36	52.05	21.73	2.40	36.0
11.0	24.90	34.56	52.29	23.06	0.30	4.4
12.0	24.89	34.71	52.48	23.17	0.20	3.0
13.2	24.82	34.63	52.30	23.14	0.14	2.1
14.0	24.80	34.70	52.38	23.20	0.14	2.1
15.0	24.82	34.70	52.40	23.19	0.17	2.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.41	1.94	14.35	2.0
15.0	1.34	1.08	2.42	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	8.7	7.3	0.2	0.4	3.8
15.0	16.4	25.8	3.8	2.1	39.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 15:10
Date: 06/11/86 Longitude: 90:27.7 W Secchi disk depth (m): 4.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.20	26.81	45.31	15.90	6.37	97.1
2.0	29.12	26.81	45.24	15.92	6.35	96.7
4.0	28.48	27.87	46.28	16.92	6.39	96.8
6.0	28.22	28.59	47.10	17.54	6.21	94.0
8.0	27.89	29.16	47.64	18.07	5.72	86.4
10.8	27.67	32.23	51.86	20.44	5.83	89.2
12.0	26.20	33.13	51.67	21.58	0.66	9.9
13.1	25.23	34.42	52.45	22.86	3.12	46.2
13.7	25.17	34.57	52.59	22.99	2.99	44.3
14.8	24.95	34.71	52.55	23.16	1.52	22.4
15.9	24.74	34.85	52.51	23.33	1.81	26.7
17.0	24.29	35.35	52.71	23.84	0.77	11.3
18.2	24.23	35.49	52.84	23.97	0.65	9.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.08	0.10	2.18	2.1
12.0	2.36	0.62	2.98	1.9
18.2	0.87	0.86	1.73	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.3	7.1	0.2	0.2	5.2
15.9	14.2	18.1	2.6	0.9	20.0
18.2	6.1	24.8	1.6	1.3	26.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 17:30
Date: 06/11/86 Longitude: 90:23.5 W Secchi disk depth (m): 5.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.28	26.53	44.95	15.66	6.49	98.9
1.9	29.27	26.53	44.94	15.66	6.49	98.9
4.2	28.56	27.80	46.24	16.84	6.45	97.8
5.7	27.99	28.29	46.46	17.39	5.95	89.5
8.2	27.72	29.59	48.11	18.45	5.34	80.6
9.8	26.98	30.44	48.64	19.32	3.63	54.3
10.8	25.63	32.07	49.64	20.97	2.80	41.2
12.1	25.09	33.68	51.30	22.34	2.40	35.3
13.8	25.38	34.58	52.81	22.93	4.14	61.6
15.8	26.27	35.37	54.82	23.25	5.31	80.6
17.1	25.37	35.47	54.01	23.61	3.44	51.4
18.0	24.95	35.53	53.64	23.78	2.61	38.7
18.8	24.72	35.52	53.39	23.84	2.02	29.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.14	0.44	3.58	2.0
18.8	0.86	0.82	1.68	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.9	10.1	0.6	0.7	5.2
18.8	5.8	23.0	1.7	###	26.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 18:50
Date: 06/11/86 Longitude: 90:16.6 W Secchi disk depth (m): 2.9

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.14	25.09	42.65	14.63	6.74	101.7
2.0	29.17	25.16	42.78	14.68	6.74	101.8
3.7	28.93	25.80	43.55	15.23	6.60	99.6
6.1	28.35	28.88	47.65	17.72	6.11	92.8
8.0	27.95	32.69	52.80	20.70	5.70	87.9
10.1	27.47	35.88	56.81	23.25	6.06	94.3
12.0	27.05	35.86	56.33	23.37	6.15	95.0
13.8	26.06	35.81	55.20	23.64	6.28	95.3
16.1	25.56	36.01	54.93	23.95	5.44	81.9
17.9	24.94	35.75	53.93	23.95	4.21	62.6
20.4	24.94	35.83	54.03	24.00	4.13	61.4
22.0	24.97	35.83	54.07	24.00	4.14	61.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.40	0.49	3.89	2.0
22.0	0.82	1.60	2.42	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.8	11.9	0.7	0.6	14.8
22.0	5.5	11.0	0.6	0.2	5.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 19:30
Date: 06/11/86 Longitude: 90:14.0 W Secchi disk depth (m): 2.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.14	25.09	42.65	14.63	6.71	101.2
2.2	29.12	25.09	42.63	14.64	6.72	101.3
4.2	28.80	26.87	45.06	16.07	6.53	98.9
6.0	28.55	28.02	46.56	17.01	6.40	97.1
7.8	28.25	30.93	50.55	19.28	6.05	92.8
10.0	26.37	34.85	54.21	22.82	5.87	89.1
12.0	25.22	35.02	53.24	23.31	5.92	88.0
14.2	25.04	35.31	53.44	23.58	5.84	86.7
16.1	24.80	35.97	54.07	24.15	6.24	92.6
17.8	24.61	35.96	53.86	24.21	6.34	93.8
20.2	23.72	35.69	52.57	24.27	5.15	74.8
22.2	23.35	35.68	52.16	24.36	3.65	52.6
24.0	23.35	35.68	52.16	24.36	3.32	47.9
24.7	23.37	35.53	51.99	24.25	3.18	45.8
25.8	23.38	35.68	52.20	24.36	3.05	44.0
27.0	23.34	35.75	52.25	24.42	2.60	37.5
28.5	23.29	35.75	52.19	24.44	2.39	34.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.25	0.50	3.75	2.0
28.5	0.76	2.58	3.34	1.3

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.6	9.5	0.2	0.2	6.7
28.5	4.8	17.6	0.3	1.2	25.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 08:50
Date: 06/27/86 Longitude: 90:31.9 W Secchi disk depth (m): 0.3

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.33	16.14	28.72	7.92	6.16	88.6
2.5	29.34	16.14	28.73	7.92	6.16	88.6
4.9	29.32	16.34	29.04	8.07	6.16	88.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	18.12	5.60	23.72	1.9
4.9	14.86	5.11	19.97	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	10.1	16.8	0.4	1.7	40.0
4.9	10.9	21.8	0.3	2.5	43.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:50
Date: 06/27/86 Longitude: 90:29.7 W Secchi disk depth (m): 0.3

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.25	16.34	29.00	8.09	6.86	98.7
2.0	29.28	17.09	30.22	8.64	6.45	93.2
4.2	29.26	17.97	31.63	9.30	5.55	80.6
5.0	29.31	21.36	37.01	11.80	2.90	43.0
5.9	28.98	25.16	42.62	14.74	2.42	36.4
6.7	28.82	27.59	46.16	16.61	4.22	64.2
7.5	28.73	28.32	47.16	17.17	4.47	68.2

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	16.88	3.90	20.78	2.0
7.5	5.00	4.64	9.64	1.6

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.7	30.6	0.2	0.8	34.9
7.5	10.9	7.7	0.8	0.6	18.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:50
Date: 06/27/86 Longitude: 90:31.3 W Secchi disk depth (m): 0.6

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.41	17.16	30.41	8.65	6.86	99.4
2.0	29.26	17.77	31.30	9.15	6.73	97.6
3.9	29.07	18.10	31.72	9.46	6.59	95.4
6.0	29.02	25.87	43.74	15.26	5.07	76.6
7.9	28.63	27.23	45.45	16.39	5.40	81.7
9.0	28.63	27.59	45.98	16.66	5.27	79.9
10.1	28.50	28.96	47.91	17.73	5.35	81.6

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.29	4.34	19.63	1.9
10.1	4.38	3.45	7.83	1.7

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.7	19.5	0.2	0.6	38.6
10.1	6.7	8.0	0.8	0.4	12.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 12:00
Date: 06/27/86 Longitude: 90:31.5 W Secchi disk depth (m): 0.9

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.13	17.83	31.33	9.24	7.51	108.7
2.0	29.08	18.04	31.62	9.41	7.20	104.2
2.8	28.99	18.17	31.78	9.54	6.70	96.9
4.1	29.13	21.42	36.98	11.91	5.50	81.2
5.0	29.17	24.81	42.24	14.41	5.24	79.0
6.0	29.03	26.16	44.18	15.47	5.83	88.3
8.0	28.91	27.31	45.81	16.36	5.75	87.5
9.6	28.46	29.40	48.51	18.07	5.52	84.3
10.7	28.38	30.35	49.83	18.80	4.78	73.3
12.4	28.35	30.49	50.01	18.92	3.57	54.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	17.91	3.80	21.71	2.0
12.4	7.40	11.08	18.48	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.7	16.9	0.1	0.3	27.7
12.4	16.2	5.1	1.0	2.2	26.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 13:05
Date: 06/27/86 Longitude: 90:29.4 W Secchi disk depth (m): 0.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.14	16.75	29.59	8.43	9.17	131.9
2.1	29.16	17.97	31.56	9.33	7.00	101.4
4.0	29.05	24.09	41.05	13.92	6.35	95.1
6.0	28.87	26.95	45.23	16.11	5.47	83.0
7.8	28.79	27.96	46.67	16.88	5.54	84.4
9.8	28.43	29.54	48.70	18.19	5.08	77.6
11.8	28.44	29.98	49.35	18.51	5.13	78.6
12.9	28.14	31.96	51.93	20.09	5.38	82.9
14.0	27.15	33.39	52.99	21.48	2.70	41.2
15.0	26.40	34.03	53.11	22.20	0.46	7.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	24.30	4.18	28.48	2.0
15.0	6.21	5.93	12.14	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.9	14.4	0.1	0.8	35.7
15.0	26.6	0.6	0.2	3.5	58.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 14:45
Date: 06/27/86 Longitude: 90:27.7 W Secchi disk depth (m): 0.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.92	15.84	29.07	7.18	11.69	172.7
1.6	30.20	19.09	34.00	9.83	9.18	136.4
3.7	28.62	27.01	45.11	16.23	7.43	112.3
5.7	28.48	29.25	48.32	17.95	6.93	105.8
8.2	28.28	30.86	50.48	19.22	5.31	81.5
10.8	28.43	31.38	51.38	19.56	5.16	79.6
12.1	27.67	32.16	51.76	20.39	1.71	26.2
13.0	26.56	33.15	52.05	21.48	0.34	5.1
14.1	26.00	34.98	54.01	23.04	0.35	5.3
15.6	25.18	35.61	54.00	23.77	0.35	5.2
17.0	25.16	35.69	54.08	23.83	0.35	5.2
17.8	25.15	35.61	53.97	23.78	0.35	5.2
18.7	25.19	35.76	54.21	23.88	0.35	5.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	23.20	2.36	25.56	2.1
18.7	1.42	2.52	3.94	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.9	7.2	0.2	0.7	30.2
18.7	17.7	0.7	0.2	2.9	51.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 16:30
Date: 06/27/86 Longitude: 90:23.5 W Secchi disk depth (m): 0.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	32.30	23.18	42.02	12.14	8.47	133.6
1.7	30.13	23.14	40.39	12.85	7.70	116.9
4.0	28.92	26.23	44.19	15.55	8.39	126.9
5.8	28.83	29.85	49.52	18.29	7.13	109.9
7.7	28.25	31.52	51.41	19.72	5.54	85.3
9.8	28.31	32.18	52.43	20.20	5.23	80.9
11.0	28.25	32.33	52.58	20.33	5.03	77.8
12.0	27.15	33.47	53.10	21.54	0.77	11.8
13.8	26.58	35.01	54.65	22.88	0.54	8.2
15.0	26.38	35.00	54.43	22.93	0.57	8.7
16.0	25.75	35.64	54.64	23.62	0.66	10.0
17.0	25.45	35.78	54.51	23.81	1.05	15.8
17.9	25.41	36.00	54.76	23.99	1.14	17.1
19.0	25.41	35.92	54.66	23.93	1.13	17.0
20.4	25.41	36.00	54.76	23.99	1.14	17.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	17.62	1.30	18.92	2.1
20.4	1.06	0.90	1.96	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.9	13.1	0.2	0.5	25.0
20.4	4.0	14.9	0.8	1.0	29.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 18:00
Date: 06/27/86 Longitude: 90:16.6 W Secchi disk depth (m): 2.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.35	24.57	42.79	13.84	9.40	144.4
2.0	29.55	26.40	44.97	15.47	9.00	137.8
4.2	28.38	29.91	49.18	18.47	6.25	95.6
6.0	27.90	33.65	54.12	21.44	4.85	75.1
8.0	27.85	34.32	55.02	21.95	5.58	86.7
9.7	27.82	34.54	55.31	22.13	5.88	91.4
11.8	27.70	35.81	56.97	23.13	5.78	90.3
14.0	27.57	36.03	57.14	23.33	5.77	90.1
15.9	27.43	36.25	57.29	23.54	5.72	89.2
18.0	26.41	36.35	56.32	23.94	5.60	85.8
20.0	24.99	36.28	54.69	24.33	3.98	59.4
21.8	24.74	36.34	54.50	24.45	3.85	57.2
23.7	24.60	36.41	54.44	24.55	3.80	56.3
24.7	24.55	36.33	54.29	24.50	3.73	55.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.74	2.45	18.19	2.0
24.7	0.59	0.73	1.32	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.1	7.4	0.3	0.3	0.8
24.7	1.1	7.8	0.5	0.6	13.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 18:50
Date: 06/27/86 Longitude: 90:14.0 W Secchi disk depth (m): 2.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.90	24.76	42.74	14.14	9.05	138.1
2.2	29.23	24.95	42.51	14.50	9.00	135.9
3.9	28.91	28.11	47.00	16.96	6.20	94.7
6.3	28.07	33.66	54.31	21.39	6.04	93.8
7.9	27.97	33.88	54.52	21.58	6.00	93.2
10.3	27.43	34.75	55.19	22.41	5.12	79.1
11.9	27.15	35.94	56.55	23.39	5.11	79.1
14.1	26.16	36.34	56.03	24.01	5.78	88.1
15.9	25.25	36.37	55.09	24.32	5.54	83.1
18.0	24.33	36.47	54.24	24.68	4.08	60.2
20.1	24.00	36.45	53.86	24.76	3.90	57.2
22.4	23.90	36.45	53.75	24.79	3.69	54.0
23.5	23.84	36.45	53.68	24.80	3.53	51.6
25.8	23.37	36.50	53.25	24.98	3.52	51.0
27.8	22.68	36.47	52.47	25.16	2.68	38.4
29.3	22.73	36.24	52.24	24.97	2.68	38.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.01	2.90	17.91	2.0
29.3	0.48	0.96	1.44	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.6	6.7	0.2	0.4	2.0
29.3	1.1	10.4	0.5	0.9	19.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:15
Date: 07/22/86 Longitude: 90:31.9 W Secchi disk depth (m):###

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.50	30.54	51.17	18.58	5.45	85.3
2.1	29.35	30.83	51.46	18.85	5.22	81.6
3.0	29.29	30.90	51.51	18.92	5.21	81.4
3.9	29.14	31.11	51.68	19.13	4.35	67.9
4.5	29.28	31.12	51.82	19.09	4.95	77.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	7.06	1.05	8.11	2.0
4.5	7.42	1.94	9.36	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.1	1.2	0.2	0.6	13.7
4.5	6.9	1.0	0.5	1.0	18.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 10:00
Date: 07/22/86 Longitude: 90:29.7 W Secchi disk depth (m):###

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.08	28.30	48.33	16.71	6.02	94.0
1.5	30.11	28.23	48.25	16.65	6.03	94.2
3.0	30.07	28.23	48.21	16.66	6.02	94.0
5.1	30.13	29.47	50.15	17.57	5.66	89.1
7.0	29.75	30.33	51.10	18.34	5.25	82.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.98	0.94	4.92	2.0
7.0	4.92	1.28	6.20	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.9	0.4	0.1	0.3	10.0
7.0	7.4	1.5	1.3	1.0	18.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:40
Date: 07/22/86 Longitude: 90:31.2 W Secchi disk depth (m): 3.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.68	26.62	45.42	15.59	6.22	95.6
2.3	30.17	27.36	46.97	15.98	5.94	92.4
3.9	30.22	28.67	49.02	16.94	5.59	87.7
4.9	29.93	30.12	50.95	18.12	5.07	79.8
6.4	28.43	34.13	55.35	21.62	1.93	30.3
7.9	27.28	35.27	55.75	22.85	0.50	7.7
9.5	26.87	35.40	55.50	23.08	0.16	2.5
10.4	26.85	35.54	55.68	23.20	0.22	3.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	4.52	0.80	5.32	2.0
10.4	0.00	21.21	21.21	0.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.3	0.7	0.2	0.4	9.0
10.4	13.1	0.4	0.4	2.3	55.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 13:00
Date: 07/22/86 Longitude: 90:31.5 W Secchi disk depth (m): 3.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.26	27.44	47.17	16.01	6.03	94.0
2.0	30.14	28.16	48.16	16.59	5.60	87.5
4.0	29.64	31.58	52.85	19.31	4.44	70.1
5.8	28.54	34.21	55.58	21.64	3.48	54.7
7.0	27.95	35.15	56.30	22.54	3.00	46.9
8.0	27.31	35.42	56.00	22.95	1.14	17.6
9.0	26.76	35.39	55.37	23.11	0.58	8.9
10.0	26.50	35.45	55.18	23.24	0.37	5.6
11.0	26.32	35.67	55.29	23.46	0.15	2.3
12.0	26.31	35.67	55.28	23.46	0.19	2.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.90	1.13	5.03	1.9
12.0	5.74	0.30	6.04	2.1

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.6	0.1	0.1	0.5	8.3
12.0	0.9	3.9	1.6	1.8	53.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 14:00
Date: 07/22/86 Longitude: 90:29.4 W Secchi disk depth (m): 3.8

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.42	26.94	46.53	15.58	6.13	95.6
2.0	30.37	26.94	46.49	15.60	6.10	95.0
4.0	30.01	31.01	52.36	18.76	5.12	81.1
6.0	28.98	33.33	54.77	20.84	4.94	77.9
8.0	28.84	34.75	56.67	21.95	5.43	86.1
10.0	28.24	35.09	56.53	22.40	3.55	55.8
12.0	27.97	35.23	56.43	22.60	2.81	44.0
13.0	27.78	35.29	56.32	22.71	1.28	20.0
14.4	26.50	35.60	55.39	23.35	0.21	3.2

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.45	0.80	4.25	2.4
14.4	3.26	0.93	4.19	1.9

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.2	0.1	0.1	0.4	9.7
14.4	11.2	9.0	1.4	1.7	49.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 15:30
Date: 07/22/86 Longitude: 90:27.7 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.67	27.24	47.21	15.73	6.23	97.7
2.0	30.65	27.24	47.19	15.73	6.20	97.2
4.1	30.51	28.83	49.52	16.97	5.88	92.8
5.9	30.43	30.08	51.34	17.92	5.88	93.3
8.0	30.28	32.74	55.20	19.96	5.99	96.3
10.0	29.00	34.61	56.63	21.79	5.35	85.0
12.0	28.55	35.18	56.99	22.37	4.03	63.7
13.0	28.34	35.17	56.75	22.43	3.05	48.0
14.0	28.07	35.31	56.65	22.62	1.59	24.9
14.9	27.68	35.36	56.31	22.79	0.89	13.9
15.8	27.23	35.26	55.70	22.86	0.77	11.9
17.0	26.86	35.47	55.59	23.14	1.20	18.4
18.4	26.24	35.58	55.35	23.25	0.25	3.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.51	0.24	2.75	2.1
18.4	2.48	0.54	3.02	1.97

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.9	0.3	0.1	0.3	8.8
18.4	5.3	5.8	2.7	1.4	39.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 16:22
Date: 07/22/86 Longitude: 90:23.5 W Secchi disk depth (m): 4.1

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.83	27.69	48.03	16.00	6.42	101.2
2.0	30.85	27.61	47.94	15.94	6.43	101.4
4.0	30.42	27.74	47.76	16.18	6.42	100.6
5.8	30.52	28.54	49.09	16.75	6.18	97.4
8.0	30.12	32.06	54.02	19.50	5.86	93.6
10.4	28.45	34.95	56.55	22.23	3.23	50.9
12.0	27.97	35.15	56.32	22.54	1.82	28.5
14.0	27.12	35.41	55.78	23.01	2.10	32.4
15.0	26.96	35.40	55.60	23.05	1.85	28.5
16.0	26.95	35.40	55.59	23.06	1.81	27.8
17.2	26.95	35.32	55.48	23.00	1.77	27.2
19.0	26.55	35.45	55.24	23.22	0.94	14.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.44	0.53	2.97	2.0
19.0	1.38	0.45	1.83	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.1	0.1	0.1	0.5	5.1
19.0	5.9	8.8	3.1	1.6	38.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 17:30
Date: 07/22/86 Longitude: 90:16.6 W Secchi disk depth (m): 3.2

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	31.14	26.69	46.74	15.15	6.44	101.5
2.0	31.15	26.69	46.75	15.15	6.46	101.9
4.0	30.95	26.68	46.57	15.21	6.42	100.9
6.0	30.61	27.75	47.94	16.12	6.29	98.8
8.0	30.54	28.03	48.32	16.36	6.16	96.8
10.0	29.83	33.83	56.36	20.93	5.89	94.5
12.0	29.11	34.46	56.54	21.64	5.76	91.6
14.0	28.35	34.95	56.44	22.26	5.83	91.7
16.0	27.57	35.28	56.08	22.77	5.04	78.3
18.0	26.82	35.39	55.44	23.09	2.60	39.9
20.0	26.14	35.51	54.88	23.39	2.62	39.7
21.0	25.66	35.56	54.44	23.58	2.82	42.4
22.0	24.97	35.68	53.87	23.88	1.75	26.0
24.0	24.87	35.75	53.85	23.97	0.70	10.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.76	0.56	3.32	2.0
24.0	1.29	0.48	1.77	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.1	0.5	0.1	0.2	7.0
24.0	11.6	12.1	0.8	1.5	29.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 18:15
Date: 07/22/86 Longitude: 90:14.0 W Secchi disk depth (m): 3.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	31.23	27.13	47.51	15.45	6.48	102.6
2.0	31.22	27.13	47.50	15.45	6.48	102.6
4.0	31.18	27.42	47.91	15.68	6.44	102.0
6.0	30.34	28.24	48.47	16.58	6.22	97.6
8.0	29.88	34.13	56.86	21.14	6.01	96.7
10.0	29.61	34.42	57.00	21.44	6.07	97.3
12.9	29.20	34.62	56.86	21.73	5.99	95.5
16.0	28.63	34.96	56.75	22.18	6.03	95.3
19.0	27.24	35.26	55.71	22.86	5.17	79.9
22.0	22.69	35.20	50.87	24.20	3.99	56.7
23.0	25.65	35.56	54.43	23.59	3.32	49.9
24.0	25.50	35.78	54.56	23.80	1.60	24.0
25.0	25.01	35.75	54.01	23.93	1.58	23.5
26.0	24.50	35.81	53.54	24.12	1.50	22.1
27.0	23.97	35.71	52.85	24.20	1.47	21.4
27.9	23.76	35.77	52.71	24.32	1.31	19.0
29.0	23.70	35.77	52.65	24.33	0.72	10.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.22	0.41	2.63	2.0
29.0	0.90	0.53	1.43	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.2	0.3	0.1	0.3	5.8
29.0	4.0	12.6	0.5	1.2	31.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:10
Date: 08/05/86 Longitude: 90:31.9 W Secchi disk depth (m): 2.0

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.89	30.86	52.12	18.68	6.37	100.6
1.0	29.87	30.86	52.10	18.69	6.25	98.7
2.1	29.86	30.86	52.09	18.69	6.31	99.6
3.0	29.86	30.86	52.09	18.69	6.25	98.7
4.0	29.88	30.86	52.11	18.69	6.25	98.7
5.0	29.90	30.86	52.13	18.68	6.32	99.8

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	7.73	1.90	9.63	1.9
5.0	9.21	3.53	12.74	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	8.4	3.2	0.1	0.7	9.6
5.0	9.1	0.3	0.1	0.6	9.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:50
Date: 08/05/86 Longitude: 90:29.7 W Secchi disk depth (m): 5.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.93	31.07	52.50	18.83	6.69	105.8
2.0	29.59	31.47	52.80	19.24	6.52	102.8
4.0	29.27	32.01	53.34	19.76	6.14	96.5
6.0	28.70	32.75	53.92	20.50	4.70	73.5
7.0	28.66	32.75	53.88	20.51	4.10	64.0
7.6	28.65	32.82	53.98	20.57	3.85	60.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.27	0.58	2.85	1.9
7.6	5.37	3.16	8.53	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.2	0.8	0.1	0.8	3.4
7.6	8.8	3.4	0.7	0.9	10.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:23
Date: 08/05/86 Longitude: 90:31.2 W Secchi disk depth (m): 3.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.47	31.46	52.68	19.28	7.77	122.2
2.0	29.42	31.60	52.84	19.40	7.67	120.6
4.0	29.35	32.50	54.19	20.10	6.35	100.3
6.0	29.02	32.91	54.49	20.51	5.60	88.1
8.0	28.11	33.64	54.67	21.36	3.60	56.0
9.0	27.90	33.77	54.65	21.52	3.11	48.2
10.4	27.84	33.84	54.69	21.59	2.65	41.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	8.34	1.69	10.03	1.9
10.4	5.26	2.29	7.55	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.4	0.6	0.1	0.5	6.5
10.4	13.7	5.2	1.1	1.0	21.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 11:00
Date: 08/05/86 Longitude: 90:31.5 W Secchi disk depth (m): 4.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.42	30.70	51.42	18.72	7.86	123.0
2.0	29.41	30.83	51.63	18.83	7.86	123.1
4.0	29.41	31.39	52.50	19.24	7.54	118.4
6.0	29.24	32.15	53.53	19.87	7.24	113.9
8.0	28.46	33.23	54.41	20.94	4.93	76.9
10.0	27.50	34.17	54.84	21.96	2.30	35.5
11.0	27.43	34.17	54.77	21.98	1.95	30.0
12.0	27.31	34.31	54.84	22.12	1.70	26.2
12.6	27.05	34.65	55.08	22.46	0.70	10.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	5.70	0.74	6.44	2.0
12.6	5.00	3.69	8.69	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.2	2.0	0.1	0.2	1.6
12.6	20.0	8.7	2.0	2.1	38.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:35
Date: 08/05/86 Longitude: 90:29.4 W Secchi disk depth (m): 4.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.96	30.37	51.42	18.30	7.90	124.6
2.0	29.80	30.37	51.26	18.35	8.02	126.1
4.0	29.60	30.91	51.93	18.82	8.31	130.6
5.9	29.04	32.84	54.40	20.45	4.67	73.5
8.0	28.60	33.17	54.46	20.85	4.26	66.6
10.0	27.32	34.09	54.54	21.96	2.59	39.8
11.0	26.72	34.84	55.02	22.71	1.32	20.2
12.0	26.71	34.91	55.11	22.77	1.10	16.8
13.0	26.73	34.91	55.13	22.76	0.89	13.6
14.0	26.75	34.91	55.15	22.75	0.70	10.7
14.9	26.65	35.05	55.25	22.89	0.34	5.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.14	0.61	3.75	1.9
14.9	2.32	2.42	4.74	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	9.6	0.3	0.1	0.3	1.1
14.9	3.8	10.2	1.6	1.6	36.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 12:30
Date: 08/05/86 Longitude: 90:27.7 W Secchi disk depth (m): 9.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.32	29.49	50.34	17.52	6.78	107.1
2.0	30.29	29.56	50.42	17.58	6.78	107.0
4.0	29.79	29.74	50.26	17.89	6.48	101.5
6.0	29.01	31.02	51.54	19.10	4.16	64.8
7.8	28.46	31.90	52.38	19.94	2.75	42.6
9.0	27.86	33.49	54.19	21.32	2.15	33.2
10.0	27.01	34.36	54.61	22.26	1.77	27.1
12.0	26.00	35.16	54.72	23.18	2.07	31.2
13.0	25.92	35.30	54.83	23.30	1.53	23.1
14.0	25.82	35.44	54.92	23.44	0.96	14.5
16.0	25.78	35.43	54.88	23.45	0.70	10.5
18.0	25.71	35.50	54.90	23.52	0.37	5.6
19.1	25.33	35.55	54.57	23.68	0.26	3.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.17	0.06	0.23	1.8
19.1	2.66	2.03	4.69	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.1	0.3	0.1	0.3	2.0
19.1	5.6	12.1	0.7	1.6	39.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 15:33
Date: 08/05/86 Longitude: 90:23.5 W Secchi disk depth (m): 9.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.58	29.23	50.15	17.24	6.48	102.6
2.0	30.54	29.23	50.11	17.25	6.48	102.6
4.0	29.90	29.40	49.81	17.60	6.52	102.1
6.1	29.69	29.60	49.94	17.81	6.48	101.2
8.0	29.44	30.35	50.89	18.46	5.48	85.6
9.2	28.76	31.78	52.48	19.75	1.98	30.8
10.0	27.59	33.76	54.31	21.61	1.60	24.7
11.1	27.04	34.08	54.23	22.04	1.60	24.5
12.0	26.25	34.82	54.49	22.84	1.97	29.8
14.0	25.01	35.61	54.31	23.82	2.38	35.4
16.0	24.94	35.68	54.33	23.89	1.70	25.2
18.0	24.86	35.67	54.24	23.91	1.18	17.5
20.4	24.37	35.79	53.89	24.15	0.58	8.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.22	0.07	0.29	1.9
20.4	2.11	1.04	3.15	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.0	0.6	0.1	0.3	2.0
20.4	3.1	12.8	0.3	1.2	34.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 16:50
Date: 08/05/86 Longitude: 90:16.6 W Secchi disk depth (m): 5.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.76	29.47	49.79	17.69	6.35	99.3
2.0	29.77	29.60	50.02	17.79	6.31	98.7
4.0	29.75	29.53	49.89	17.74	6.29	98.4
6.0	29.62	29.74	50.09	17.94	6.21	97.0
8.0	29.46	30.35	50.91	18.45	5.97	93.3
10.0	28.34	32.95	53.86	20.76	3.07	47.7
12.0	27.65	33.97	54.69	21.76	2.19	33.8
14.0	26.43	34.62	54.38	22.63	1.71	25.9
16.0	25.39	35.20	54.14	23.40	2.08	31.1
18.0	24.49	35.66	53.82	24.01	2.41	35.5
19.5	24.17	35.78	53.66	24.20	2.30	33.7
20.8	24.01	35.64	53.29	24.14	2.08	30.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.62	0.10	0.72	2.0
20.8	1.42	0.76	2.18	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.5	1.5	0.1	0.2	1.9
20.8	1.2	10.4	0.2	1.0	22.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 17:32
Date: 08/05/86 Longitude: 90:14.0 W Secchi disk depth (m): 8.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.73	30.02	50.64	18.11	6.43	100.8
2.2	29.73	30.02	50.64	18.11	6.41	100.5
3.7	29.72	30.02	50.63	18.11	6.41	100.4
5.8	29.85	30.58	51.64	18.49	6.67	105.1
8.0	29.72	31.06	52.28	18.89	6.41	101.0
10.3	28.92	32.27	53.40	20.07	4.50	70.4
12.1	28.28	33.36	54.43	21.10	3.07	47.8
13.8	28.00	33.84	54.87	21.55	3.66	56.8
15.9	27.58	34.32	55.14	22.04	2.97	45.9
18.1	26.74	34.63	54.73	22.54	2.61	39.8
20.0	26.10	34.81	54.32	22.88	2.71	40.9
22.0	24.42	35.72	53.84	24.08	2.37	34.9
24.0	23.73	35.83	53.26	24.37	2.36	34.3
26.0	23.67	35.90	53.29	24.44	2.18	31.7
28.0	23.62	35.90	53.24	24.45	2.01	29.2
29.2	23.57	35.90	53.18	24.47	1.92	27.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.54	0.06	0.60	2.0
29.2	1.14	0.90	2.04	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	7.8	0.2	0.1	0.2	1.6
29.2	3.3	11.2	0.2	0.8	24.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 08:40
Date: 08/19/86 Longitude: 90:31.9 W Secchi disk depth (m): 1.2

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.47	30.70	51.20	19.04	5.09	78.3
2.0	28.48	30.77	51.32	19.09	4.79	73.8
3.0	28.72	31.07	52.00	19.24	4.30	66.6
4.0	28.68	31.95	53.25	19.90	3.45	53.7
5.0	28.49	32.67	54.12	20.51	1.60	24.9
5.5	28.49	33.18	54.88	20.89	0.54	8.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	17.72	1.76	19.48	2.0
5.5	7.21	3.20	10.41	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.9	0.9	0.6	1.4	27.7
5.5	7.8	5.6	2.5	2.2	40.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:58
Date: 08/19/86 Longitude: 90:29.7 W Secchi disk depth (m): 2.2

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.44	30.82	52.32	18.81	5.80	90.8
2.0	29.44	30.75	52.21	18.75	5.78	90.5
4.0	29.42	30.89	52.40	18.87	5.79	90.7
5.0	29.41	30.82	52.29	18.82	5.71	89.4
6.5	28.71	32.39	53.93	20.22	2.70	42.1
7.4	28.23	33.68	55.34	21.35	0.40	6.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	8.74	1.70	10.44	1.9
7.4	2.90	1.49	4.39	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.5	0.1	0.1	0.6	13.8
7.4	2.0	8.6	0.8	2.0	33.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 11:00
Date: 08/19/86 Longitude: 90:31.2 W Secchi disk depth (m): 1.9

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.60	30.61	52.15	18.60	6.02	94.5
2.0	29.55	30.75	52.32	18.72	5.97	93.7
4.0	29.53	30.75	52.30	18.73	5.92	92.8
5.8	29.48	31.11	52.80	19.01	4.90	76.9
7.0	28.92	31.67	53.08	19.61	3.95	61.6
8.0	27.75	34.32	55.76	21.99	0.16	2.5
9.0	27.71	34.39	55.82	22.05	0.16	2.5
10.0	27.30	34.52	55.57	22.28	0.16	2.5
10.9	27.13	34.51	55.37	22.33	0.20	3.1

CHLOROPHYLL DATA
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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	7.42	0.52	7.94	2.1
10.9	1.76	1.70	3.46	1.6

NUTRIENT DATA
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Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.7	0.6	0.1	0.6	13.8
10.9	14.9	0.3	0.1	3.1	58.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 12:11
Date: 08/19/86 Longitude: 90:31.5 W Secchi disk depth (m): 3.5

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.73	31.05	52.95	18.88	6.22	98.1
1.9	29.70	31.05	52.92	18.89	6.22	98.0
3.9	29.49	31.11	52.81	19.01	6.20	97.4
6.0	29.19	31.68	53.36	19.53	6.03	94.5
8.1	29.33	31.91	53.84	19.66	5.67	89.2
9.9	27.35	34.52	55.62	22.27	0.22	3.4
11.2	27.25	34.52	55.51	22.30	0.24	3.7
12.4	27.25	34.52	55.51	22.30	0.30	4.6

CHLOROPHYLL DATA
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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	4.16	0.30	4.46	2.0
12.4	2.14	0.56	2.70	1.9

NUTRIENT DATA
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Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	6.7	0.0	0.1	0.4	7.4
12.4	13.6	1.5	0.3	2.6	49.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 13:40
Date: 08/19/86 Longitude: 90:29.4 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.82	31.28	53.37	19.02	6.42	101.5
2.0	29.80	31.20	53.24	18.97	6.32	99.8
4.0	29.72	31.42	53.49	19.16	6.28	99.2
6.2	29.57	31.48	53.44	19.26	6.19	97.6
8.0	29.55	31.55	53.53	19.32	6.10	96.1
9.0	29.47	31.62	53.55	19.40	6.04	95.1
10.9	29.12	33.21	55.57	20.71	3.53	55.7
12.3	28.25	33.76	55.47	21.40	0.37	5.8
14.1	27.14	34.44	55.28	22.27	0.24	3.7
15.4	27.17	34.44	55.31	22.26	0.32	4.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.57	0.38	2.95	2.0
15.4	1.84	0.38	2.22	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.2	0.3	0.1	0.4	5.3
15.4	13.0	2.5	0.3	2.3	49.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 14:49
Date: 08/19/86 Longitude: 90:27.7 W Secchi disk depth (m): 4.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.02	30.70	52.70	18.53	6.55	103.6
2.0	30.01	30.70	52.69	18.53	6.55	103.6
4.0	29.79	30.62	52.35	18.54	6.67	105.0
6.0	29.72	30.98	52.83	18.83	6.55	103.2
8.0	29.57	31.26	53.11	19.09	6.25	98.4
10.0	29.78	32.66	55.43	20.07	5.85	93.2
12.0	29.63	33.61	56.69	20.83	4.95	79.0
13.0	28.10	34.04	55.73	21.67	0.65	10.1
14.0	27.97	34.19	55.79	21.81	0.29	4.5
16.0	27.21	34.37	55.26	22.20	0.56	8.6
18.0	27.20	34.29	55.14	22.14	0.56	8.6
19.1	27.24	34.22	55.08	22.08	0.58	8.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.46	0.34	2.80	2.0
19.1	0.84	0.50	1.34	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.9	0.4	0.1	0.3	3.2
19.1	10.9	8.8	3.1	1.9	39.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 6A Latitude: 28:50.4 N Hydrolab cast time: 15:15
Date: 08/19/86 Longitude: 90:26.0 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.03	30.41	52.27	18.31	6.54	103.3
2.0	29.98	30.77	52.77	18.59	6.55	103.6
4.0	29.78	30.76	52.56	18.65	6.60	104.0
6.0	29.70	30.83	52.59	18.73	6.45	101.5
8.0	29.82	31.06	53.04	18.86	6.22	98.2
10.0	29.76	32.08	54.52	19.64	5.82	92.3
12.0	29.31	35.44	59.06	22.31	3.95	63.4
13.0	28.18	33.75	55.39	21.42	1.91	29.8
14.0	27.64	34.17	55.42	21.91	1.49	23.0
16.0	27.28	34.22	55.12	22.07	1.58	24.3
18.0	27.26	34.22	55.10	22.07	1.49	22.9
19.0	27.28	34.22	55.12	22.07	1.52	23.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
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NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
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CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 16:05
Date: 08/19/86 Longitude: 90:23.5 W Secchi disk depth (m): 4.2

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.16	30.57	52.62	18.38	6.33	100.3
2.0	30.07	30.56	52.53	18.40	6.32	100.0
4.0	30.07	30.63	52.64	18.46	6.33	100.2
6.0	29.76	30.54	52.21	18.50	6.30	99.1
8.0	29.63	30.61	52.18	18.59	6.24	98.0
10.0	29.63	30.97	52.73	18.86	5.91	93.0
12.0	27.67	34.17	55.46	21.90	1.45	22.4
13.9	27.31	34.30	55.26	22.11	1.46	22.5
16.0	27.20	34.22	55.03	22.09	1.49	22.9
18.0	27.19	34.37	55.23	22.20	1.63	25.0
19.0	27.21	34.30	55.15	22.14	1.60	24.6
19.8	27.24	34.30	55.18	22.13	1.72	26.4

CHLOROPHYLL DATA
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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	1.30	0.04	1.34	2.1
19.8	0.98	0.36	1.34	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	11.1	0.1	0.1	0.3	3.2
19.8	11.2	7.0	2.1	1.4	30.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 17:20
Date: 08/19/86 Longitude: 90:16.6 W Secchi disk depth (m):12.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.86	31.06	53.09	18.85	6.08	96.1
3.0	29.85	31.06	53.07	18.85	6.08	96.1
6.0	29.54	31.11	52.86	18.99	6.05	95.1
8.0	29.52	31.11	52.84	19.00	6.08	95.5
10.0	29.48	31.11	52.80	19.01	6.04	94.8
12.0	29.53	31.84	53.94	19.54	5.25	82.8
14.0	29.06	32.62	54.64	20.28	4.90	77.0
16.0	29.13	33.88	56.56	21.20	5.75	91.2
18.0	27.86	34.18	55.67	21.85	4.60	71.4
19.0	27.48	34.38	55.56	22.12	4.09	63.1
20.0	25.83	35.19	54.94	23.25	2.02	30.4
22.0	25.09	35.37	54.40	23.62	1.18	17.5
24.0	25.12	35.37	54.44	23.61	1.16	17.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.52	0.06	0.58	2.0
24.0	1.80	0.65	2.45	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.2	0.0	0.1	0.2	2.6
24.0	8.8	12.9	0.7	1.6	34.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 18:01
Date: 08/19/86 Longitude: 90:14.0 W Secchi disk depth (m):12.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	30.05	31.29	53.62	18.95	6.01	95.4
3.0	29.91	31.35	53.58	19.05	6.02	95.4
6.0	29.78	31.27	53.33	19.03	6.03	95.3
9.0	29.51	31.26	53.05	19.11	6.04	95.0
10.9	29.48	31.33	53.12	19.18	6.03	94.8
14.3	29.41	31.47	53.27	19.31	5.98	94.0
16.9	28.68	33.71	55.84	21.22	5.30	83.3
20.0	27.95	34.48	56.20	22.04	5.51	85.8
23.0	25.95	35.12	54.97	23.16	3.28	49.5
26.0	23.48	35.44	52.79	24.15	2.47	35.7
28.0	23.34	35.58	52.83	24.30	2.33	33.6
29.6	23.44	35.51	52.84	24.22	2.40	34.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.46	0.19	0.65	1.9
29.6	0.75	0.38	1.13	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	12.0	0.8	0.1	0.3	2.4
29.6	7.9	12.6	0.3	1.0	22.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:30
Date: 09/11/86 Longitude: 90:31.9 W Secchi disk depth (m): 1.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.81	28.97	48.20	17.64	5.87	90.0
3.0	28.81	29.48	48.96	18.02	5.83	89.6
4.6	28.79	29.63	49.16	18.13	5.81	89.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.82	1.06	4.88	1.9
4.6	4.09	1.26	5.35	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.3	1.1	0.2	0.5	5.0
4.6	2.3	0.1	0.1	0.5	4.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 10:05
Date: 09/11/86 Longitude: 90:29.7 W Secchi disk depth (m): 1.9

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.87	29.34	48.80	17.89	6.80	104.6
2.1	28.87	29.56	49.13	18.06	6.60	101.6
4.1	28.84	29.56	49.10	18.07	6.41	98.6
6.1	28.83	29.27	48.66	17.85	6.34	97.4
7.7	28.83	29.27	48.66	17.85	6.37	97.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.33	0.56	2.89	1.9
7.7	2.41	0.64	3.05	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.8	0.1	0.1	0.3	3.2
7.7	1.0	0.5	0.1	0.5	3.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:50
Date: 09/11/86 Longitude: 90:31.2 W Secchi disk depth (m): 5.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.88	29.63	49.25	18.11	5.97	92.0
2.0	28.85	29.41	48.89	17.95	6.00	92.3
4.0	28.85	29.63	49.22	18.12	6.00	92.4
6.0	28.84	29.71	49.31	18.17	6.02	92.7
7.8	28.83	29.49	48.98	18.01	6.03	92.7
10.0	28.92	29.71	49.39	18.15	5.97	92.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.30	0.31	2.61	2.0
10.0	2.96	0.58	3.54	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.1	0.8	0.1	0.5	3.7
10.0	2.6	0.1	0.1	0.5	3.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 11:30
Date: 09/11/86 Longitude: 90:31.5 W Secchi disk depth (m): 6.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.07	29.50	49.22	17.94	6.40	98.9
1.9	29.06	29.28	48.88	17.78	6.25	96.4
3.8	29.04	29.35	48.97	17.84	6.18	95.3
6.0	29.01	29.35	48.94	17.85	6.15	94.8
8.0	28.98	29.57	49.24	18.02	6.13	94.6
10.0	28.98	30.52	50.65	18.74	5.90	91.5
12.0	29.00	32.89	54.14	20.50	1.22	19.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	1.86	0.24	2.10	2.0
12.0	23.56	3.17	26.73	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.8	0.8	0.1	0.5	3.7
12.0	0.6	10.6	5.0	0.9	27.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 12:10
Date: 09/11/86 Longitude: 90:29.4 W Secchi disk depth (m): 6.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.01	29.64	49.37	18.07	6.01	92.8
2.0	29.02	29.49	49.17	17.96	6.02	92.9
4.1	28.99	29.57	49.25	18.02	6.01	92.7
5.7	29.00	29.64	49.36	18.07	6.00	92.6
8.0	29.06	29.57	49.31	18.00	5.97	92.2
10.0	29.03	29.79	49.61	18.17	5.86	90.6
11.5	29.14	32.52	53.75	20.18	2.69	42.3
12.9	28.92	33.70	55.24	21.14	1.80	28.4
14.7	28.76	33.77	55.17	21.24	1.87	29.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.21	0.23	2.44	2.0
14.7	2.60	1.28	3.88	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.5	0.6	0.1	0.3	2.3
14.7	3.8	8.3	3.0	1.0	20.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 13:05
Date: 09/11/86 Longitude: 90:27.7 W Secchi disk depth (m): 6.5

HYDROGRAPHIC DATA
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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.39	30.24	50.62	18.39	5.87	91.6
1.8	29.36	30.10	50.38	18.29	5.88	91.6
4.0	29.35	30.02	50.26	18.24	5.94	92.5
6.0	29.31	30.17	50.43	18.36	5.93	92.3
8.0	29.51	31.28	52.28	19.13	5.88	92.5
9.8	29.40	31.65	52.71	19.44	5.78	90.9
12.0	28.88	32.95	54.12	20.59	5.56	87.3
14.0	28.59	33.01	53.91	20.73	4.97	77.6
16.0	28.49	33.38	54.34	21.04	4.54	71.0
18.0	28.53	34.06	55.35	21.53	3.30	51.8

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	1.14	0.16	1.30	2.0
18.0	2.11	0.85	2.96	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.7	0.4	0.1	0.3	2.7
18.0	3.3	4.6	1.8	0.7	12.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 14:10
Date: 09/11/86 Longitude: 90:23.5 W Secchi disk depth (m):12.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.29	31.64	52.60	19.47	5.82	91.4
2.0	29.29	31.71	52.71	19.53	5.84	91.7
4.0	29.28	31.27	52.04	19.20	5.81	91.0
6.0	29.24	31.56	52.44	19.43	5.84	91.5
8.3	29.22	31.56	52.41	19.44	5.85	91.7
10.0	29.20	31.71	52.61	19.55	5.80	90.9
11.7	29.21	32.08	53.17	19.83	5.64	88.6
13.8	28.81	33.17	54.37	20.78	4.85	76.1
16.0	28.50	33.53	54.57	21.15	4.15	64.9
18.1	28.45	33.90	55.05	21.44	3.64	57.0
19.5	28.43	33.90	55.03	21.45	3.17	49.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.58	0.13	0.71	1.9
19.5	1.66	0.60	2.26	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.6	0.2	0.1	0.4	1.9
19.5	2.2	6.2	1.6	0.8	12.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 15:19
Date: 09/11/86 Longitude: 90:16.6 W Secchi disk depth (m): 7.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.44	30.83	51.55	18.82	5.80	90.9
2.8	29.44	30.61	51.22	18.65	5.79	90.6
6.1	29.37	31.05	51.81	19.01	5.65	88.5
8.9	28.97	31.92	52.70	19.79	4.74	74.1
12.0	28.79	32.43	53.26	20.23	4.70	73.4
15.0	28.73	32.80	53.74	20.52	4.48	70.1
18.0	28.67	32.94	53.89	20.65	4.42	69.1
21.0	28.64	33.46	54.61	21.05	4.33	67.9
23.4	28.54	33.53	54.61	21.14	4.03	63.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.04	0.14	3.18	2.1
23.4	0.77	0.83	1.60	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.0	0.0	0.1	0.5	3.7
23.4	0.7	5.9	1.1	0.7	6.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 16:00
Date: 09/11/86 Longitude: 90:14.0 W Secchi disk depth (m): 4.5

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.50	29.95	50.30	18.14	6.29	98.2
2.0	29.51	29.74	49.98	17.97	6.26	97.6
4.0	29.48	30.03	50.39	18.20	6.25	97.5
7.0	29.36	30.17	50.48	18.35	6.13	95.5
9.8	29.08	30.89	51.29	18.98	5.21	81.1
12.9	28.82	32.43	53.29	20.22	4.43	69.3
16.0	28.77	32.87	53.89	20.57	4.36	68.3
19.0	28.72	33.17	54.27	20.81	4.55	71.3
21.3	28.62	33.39	54.48	21.00	4.44	69.6
23.0	28.60	33.39	54.46	21.01	4.17	65.3
25.0	28.60	33.39	54.46	21.01	4.03	63.1
27.0	28.56	33.24	54.20	20.91	3.95	61.8
28.6	28.14	34.04	54.92	21.65	2.93	45.7

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	6.31	0.61	6.92	2.0
28.6	0.48	0.95	1.43	1.4

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.5	0.0	0.1	0.3	5.2
28.6	1.5	8.5	1.1	1.0	15.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 10:15
Date: 09/24/86 Longitude: 90:31.9 W Secchi disk depth (m): 1.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.31	28.01	46.33	17.08	5.90	89.2
2.0	28.31	28.01	46.33	7.08	5.88	88.8
4.0	28.30	28.08	46.43	17.14	5.81	87.8
4.2	28.31	28.16	46.55	17.19	5.81	87.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	8.32	1.68	10.00	2.0
4.2	8.23	2.26	10.49	1.9

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.4	0.5	0.1	0.6	6.8
4.2	1.8	0.4	0.1	0.8	7.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 10:50
Date: 09/24/86 Longitude: 90:29.7 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.76	28.39	47.29	17.22	5.88	89.8
2.0	28.78	28.46	47.42	17.27	5.77	88.2
4.0	28.78	28.46	47.42	17.27	5.73	87.5
6.0	28.72	28.53	47.47	17.34	5.65	86.3
7.6	28.72	28.75	47.79	17.50	5.81	88.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.58	0.60	3.18	2.0
7.6	4.94	0.56	5.50	2.1

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.6	0.7	0.2	0.6	5.5
7.6	1.8	0.3	0.1	0.6	6.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 11:25
Date: 09/24/86 Longitude: 90:31.2 W Secchi disk depth (m): 3.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.82	28.90	48.11	17.58	5.75	88.1
2.0	28.84	28.90	48.13	17.57	5.65	86.6
4.0	28.80	28.97	48.19	17.64	5.66	86.8
6.0	28.75	28.90	48.04	17.60	5.57	85.3
8.0	28.80	29.05	48.30	17.70	5.46	83.7
10.0	29.03	29.49	49.18	17.95	5.31	82.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.78	0.79	3.57	1.9
10.0	6.02	0.70	6.72	2.1

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.1	1.5	0.2	0.5	6.3
10.0	9.3	3.4	0.3	0.6	5.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 12:00
Date: 09/24/86 Longitude: 90:31.5 W Secchi disk depth (m): 2.6

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.98	29.57	49.24	18.02	5.63	83.3
2.0	29.01	29.57	49.27	18.01	5.50	84.9
4.0	29.01	29.57	49.27	18.01	5.34	82.4
6.0	28.98	29.57	49.24	18.02	5.30	81.8
8.0	28.84	29.63	49.21	18.12	5.11	78.7
10.0	28.85	29.71	49.32	18.17	5.26	81.0
12.0	28.85	29.71	49.32	18.17	5.33	82.1
12.3	28.85	29.85	49.54	18.28	5.34	82.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.96	0.87	3.83	1.9
12.3	3.28	0.72	4.00	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.4	1.2	0.1	0.6	7.3
12.3	4.1	0.8	0.4	0.5	7.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 12:40
Date: 09/24/86 Longitude: 90:29.4 W Secchi disk depth (m): 7.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.09	29.42	49.13	17.88	6.39	98.7
2.0	29.10	29.50	49.25	17.93	6.18	95.5
4.0	29.08	29.50	49.23	17.94	6.17	95.3
6.0	29.07	29.50	49.22	17.94	6.15	95.0
8.0	29.00	29.57	49.26	18.02	6.13	94.6
10.0	28.97	29.64	49.33	18.08	5.79	89.4
12.0	29.04	30.23	50.27	18.50	4.53	70.2
14.0	29.02	32.37	53.40	20.11	4.41	69.2
14.8	28.92	32.88	54.05	20.52	3.10	48.7
15.0	28.84	33.18	54.40	20.77	2.54	39.9

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.94	0.31	3.25	2.1
15.0	2.85	1.87	4.72	1.7

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	8.9	0.3	0.1	0.5	2.6
15.0	7.9	2.6	1.3	1.0	18.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 13:30
Date: 09/24/86 Longitude: 90:27.7 W Secchi disk depth (m): 5.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	28.98	29.49	49.13	17.97	6.83	105.3
2.0	29.01	29.49	49.16	17.96	6.74	104.0
4.0	29.03	29.57	49.29	18.01	6.70	103.5
6.0	29.00	29.57	49.26	18.02	6.68	103.1
8.0	28.97	30.81	51.07	18.96	6.55	101.8
10.0	29.00	31.26	51.75	19.28	6.42	100.0
12.0	28.96	31.40	51.93	19.40	6.19	96.5
14.0	28.85	32.14	52.89	19.99	5.44	85.0
16.0	28.85	33.10	54.30	20.71	4.05	63.6
18.0	28.73	34.22	55.79	21.59	4.05	63.9
19.2	28.72	34.29	55.89	21.65	3.94	62.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	6.06	0.81	6.87	2.1
19.2	1.22	2.16	3.38	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.8	0.3	0.1	0.4	2.4
19.2	5.1	0.8	0.3	0.7	9.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 15:30
Date: 09/24/86 Longitude: 90:23.5 W Secchi disk depth (m): 7.2

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.20	29.14	48.80	17.63	6.36	98.3
2.0	29.20	29.14	48.80	17.63	6.22	96.1
4.0	29.20	29.36	49.13	17.79	6.21	96.1
6.0	29.17	30.97	51.49	19.01	6.63	103.4
8.0	29.00	32.29	53.27	20.06	3.91	61.3
10.0	28.91	33.48	54.91	20.97	4.07	64.1
12.0	28.90	33.78	55.33	21.20	4.30	67.8
14.0	28.83	34.07	55.68	21.45	4.66	73.6
16.0	28.76	34.52	56.25	21.80	4.06	64.2
18.0	28.73	35.19	57.19	22.32	3.96	62.8
20.0	28.65	35.49	57.53	22.57	3.12	49.5

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.94	0.82	4.76	2.0
20.0	1.18	1.00	2.18	1.7

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	5.3	2.6	0.1	0.6	5.0
20.0	2.6	4.5	1.0	0.8	11.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 16:40
Date: 09/24/86 Longitude: 90:16.6 W Secchi disk depth (m): 5.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.02	31.92	52.75	19.77	6.19	96.8
2.0	29.08	31.70	52.49	19.59	6.24	97.6
4.0	29.03	32.29	53.30	20.05	6.15	96.4
6.0	28.84	34.00	55.59	21.39	5.95	93.9
8.0	29.32	35.91	58.85	22.66	5.46	87.8
10.0	29.32	36.59	59.83	23.17	5.36	86.6
12.0	29.10	36.57	59.57	23.23	5.41	87.0
14.0	29.03	36.57	59.49	23.25	5.39	86.6
16.0	29.02	36.64	59.59	23.31	5.45	87.6
18.0	29.03	36.65	59.60	23.31	5.58	89.7
20.0	29.06	36.65	59.63	23.30	5.55	89.3
22.0	28.67	36.47	58.96	23.30	5.19	82.8
23.2	28.65	36.85	59.47	23.59	5.11	81.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.82	0.72	4.54	2.0
23.2	2.10	0.92	3.02	1.8

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.9	0.6	0.1	0.4	1.5
23.2	2.2	0.3	0.3	0.3	3.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 17:20
Date: 09/24/86 Longitude: 90:14.0 W Secchi disk depth (m):11.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	29.07	33.49	55.08	20.93	5.75	90.8
2.0	29.06	33.41	54.96	20.87	5.62	88.7
4.0	29.07	33.49	55.08	20.93	5.61	88.6
6.0	29.40	33.65	55.66	20.94	5.65	89.9
8.0	29.21	36.20	59.16	22.92	5.47	88.0
10.0	29.14	36.65	59.73	23.28	5.58	89.9
12.0	29.09	36.73	59.78	23.35	5.59	90.0
14.0	29.13	36.73	59.83	23.34	5.59	90.0
16.0	29.13	36.80	59.93	23.40	5.57	89.8
18.0	29.10	36.88	60.01	23.46	5.56	89.6
20.0	29.10	37.26	60.55	23.75	5.55	89.6
22.0	29.05	36.87	59.95	23.48	5.57	89.7
24.0	28.65	36.85	59.47	23.59	5.49	87.8
26.0	28.62	36.92	59.54	23.66	5.41	86.5
28.0	28.62	36.85	59.43	23.60	5.36	85.6
29.8	28.56	36.69	59.15	23.50	4.94	78.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	0.76	0.15	0.91	2.0
29.8	1.60	0.98	2.58	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.5	1.1	0.1	0.2	2.7
29.8	1.5	1.3	0.4	0.6	6.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 08:10
Date: 10/16/86 Longitude: 90:31.9 W Secchi disk depth (m): 1.7

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	24.37	27.46	42.14	17.87	7.21	101.1
2.0	24.48	27.75	42.64	18.06	7.17	100.9
4.0	24.47	27.68	42.53	18.01	7.27	102.2
5.5	24.53	27.82	42.78	18.10	7.05	99.3

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	15.28	2.90	18.18	2.0
5.5	14.71	2.20	16.91	2.0

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.2	4.0	1.0	6.8	5.6
5.5	2.2	1.7	0.5	2.0	7.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 09:10
Date: 10/16/86 Longitude: 90:29.7 W Secchi disk depth (m): 1.5

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	24.89	26.76	41.60	17.19	7.08	99.8
2.0	24.98	26.83	41.78	17.22	6.63	93.7
4.0	25.01	26.83	41.81	17.22	6.86	97.0
6.0	25.01	27.12	42.21	17.43	6.75	95.6
7.8	24.66	27.82	42.90	18.06	6.95	98.2

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	13.95	1.64	15.59	2.1
7.8	17.30	1.78	19.08	2.1

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.5	3.2	0.8	1.1	10.4
7.8	2.4	1.1	0.5	1.3	7.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 09:50
Date: 10/16/86 Longitude: 90:31.2 W Secchi disk depth (m): 2.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	25.01	26.69	41.61	17.11	7.00	98.9
2.0	25.06	26.62	41.55	17.04	6.68	94.4
4.0	25.10	26.69	41.69	17.08	6.60	93.4
6.0	25.19	26.91	42.07	17.22	6.70	95.1
8.0	25.41	27.42	42.96	17.54	6.43	91.9
10.0	25.98	28.95	45.62	18.51	5.63	82.0
10.5	26.43	29.62	46.97	18.88	4.54	66.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	9.86	1.07	10.93	2.1
10.5	8.61	1.32	9.93	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.5	##.##	##.##	0.8	11.7
10.5	3.0	5.7	1.0	1.1	16.7

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 10:50
Date: 10/16/86 Longitude: 90:31.5 W Secchi disk depth (m): 4.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	25.30	27.84	43.47	17.89	8.15	116.5
2.0	25.37	27.92	43.63	17.92	7.85	112.4
4.0	25.39	27.99	43.75	17.97	7.65	109.6
6.0	25.44	28.06	43.90	18.01	7.49	107.5
8.0	25.51	28.35	44.37	18.21	7.34	105.6
10.0	25.67	29.01	45.43	18.65	7.13	103.3
12.0	26.60	30.35	48.16	19.37	5.95	88.4
12.8	27.55	32.89	52.69	20.98	2.71	41.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	10.08	1.02	11.10	2.1
12.8	8.48	1.42	9.90	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.3	4.4	0.5	0.7	10.9
12.8	1.7	4.4	0.8	0.8	14.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:35
Date: 10/16/86 Longitude: 90:29.4 W Secchi disk depth (m): 5.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	25.58	28.57	44.73	18.35	6.52	94.1
2.0	25.60	28.65	44.85	18.40	6.46	93.3
4.0	25.64	28.65	44.89	18.39	6.41	92.6
6.0	25.70	28.87	45.25	18.54	6.33	91.7
8.0	25.80	29.23	45.85	18.78	6.21	90.3
10.0	26.07	30.11	47.34	19.36	5.95	87.4
12.0	26.31	30.78	48.49	19.78	5.25	77.7
14.0	27.90	33.95	54.55	21.66	2.43	37.7
16.0	28.03	34.03	54.80	21.68	2.23	34.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	6.80	1.31	8.11	2.0
16.0	3.80	0.80	4.60	2.0

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.7	5.7	1.1	0.8	11.1
16.0	1.4	7.6	0.7	0.9	20.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 13:10
Date: 10/16/86 Longitude: 90:27.7 W Secchi disk depth (m): 3.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.16	30.92	48.55	19.94	7.02	103.8
2.0	26.19	30.85	48.48	19.87	6.77	100.1
4.0	26.21	30.85	48.50	19.87	6.73	99.5
6.0	26.23	31.00	48.72	19.97	6.54	96.8
8.0	26.33	31.00	48.82	19.94	6.31	93.6
10.0	26.45	31.37	49.46	20.19	5.52	82.2
12.0	27.11	32.65	51.91	20.94	5.16	78.4
14.0	27.89	33.73	54.22	21.49	4.64	71.9
16.0	28.03	34.48	55.44	22.01	3.80	59.3
18.0	28.13	34.63	55.76	22.10	3.72	58.2
19.8	28.15	34.56	55.68	22.04	3.70	57.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	9.91	1.38	11.29	2.1
19.8	1.63	2.30	3.93	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.9	2.8	0.3	0.8	8.3
19.8	2.6	4.3	1.6	0.7	14.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 14:10
Date: 10/16/86 Longitude: 90:23.5 W Secchi disk depth (m): 3.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.20	31.14	48.90	20.09	7.34	108.7
2.0	26.25	31.22	49.05	20.13	7.09	105.1
4.0	26.29	31.22	49.09	20.12	7.03	104.3
6.0	26.29	31.29	49.19	20.18	6.92	102.7
8.0	26.36	31.66	49.78	20.43	6.66	99.2
10.0	26.52	32.18	50.66	20.77	6.35	95.1
12.0	27.23	33.25	52.87	21.35	5.03	76.8
14.0	27.66	34.01	54.39	21.78	3.70	57.2
16.0	28.54	35.26	57.08	22.43	1.81	28.6
18.0	28.67	35.34	57.34	22.45	1.77	28.1
20.0	28.69	35.42	57.47	22.50	1.86	29.5
20.2	28.71	35.42	57.49	22.49	1.88	29.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	13.48	0.76	14.24	2.1
20.2	1.28	1.30	2.58	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.6	0.6	0.2	0.4	8.8
20.2	5.5	9.6	1.0	1.1	30.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 15:40
Date: 10/16/86 Longitude: 90:16.6 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	26.61	32.04	50.55	20.64	6.35	95.2
2.0	26.63	32.11	50.68	20.69	6.29	94.4
4.0	26.64	32.04	50.58	20.63	6.28	94.2
6.0	26.64	32.11	50.69	20.68	6.18	92.8
8.0	26.70	32.19	50.85	20.72	6.10	91.7
10.0	26.77	32.41	51.24	20.87	5.97	90.0
12.0	26.83	32.49	51.40	20.91	6.07	91.6
14.0	27.00	32.87	52.10	21.14	5.92	89.8
16.0	27.20	33.25	52.84	21.36	5.69	86.8
18.0	28.06	34.93	56.11	22.34	5.04	78.9
20.0	28.28	35.39	57.00	22.62	5.43	85.5
22.0	28.29	35.32	56.90	22.56	4.74	74.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	7.41	0.84	8.25	2.1
22.0	1.34	1.19	2.53	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	0.6	1.9	0.2	0.5	6.6
22.0	3.0	1.4	0.5	0.5	15.4

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 16:40
Date: 10/16/86 Longitude: 90:14.0 W Secchi disk depth (m): 4.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	27.08	32.95	52.29	21.17	6.52	99.1
2.0	27.11	33.02	52.43	21.22	6.42	97.7
4.0	27.10	33.02	52.42	21.22	6.40	97.4
6.0	27.10	33.02	52.42	21.22	6.37	96.9
8.0	27.17	33.10	52.60	21.26	6.20	94.5
10.0	27.25	33.47	53.21	21.51	5.87	89.8
12.0	27.30	33.55	53.36	21.55	5.68	87.0
14.0	27.40	33.63	53.58	21.58	5.42	83.2
16.0	27.51	33.93	54.12	21.77	5.22	80.4
18.0	27.66	34.01	54.39	21.78	5.01	77.4
20.0	28.00	34.78	55.83	22.25	4.72	73.7
22.0	28.43	36.08	58.14	23.09	3.29	52.2
24.0	28.53	36.09	58.25	23.06	3.10	49.2
26.0	28.53	36.16	58.36	23.11	3.08	48.9
28.0	28.54	36.09	58.26	23.05	3.07	48.8
30.0	28.54	36.09	58.26	23.05	3.20	50.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	8.90	1.09	9.99	2.1
30.0	1.11	1.32	2.43	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	1.6	0.7	0.2	0.4	5.0
30.0	1.1	5.9	0.5	0.8	14.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 01 Latitude: 29:03.4 N Hydrolab cast time: 09:15
Date: 11/17/86 Longitude: 90:31.9 W Secchi disk depth (m): 0.5

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	20.19	24.08	36.10	16.45	6.58	83.5
2.0	21.79	25.68	39.24	17.25	5.75	76.0
4.0	21.86	27.35	41.27	18.49	6.14	82.0

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.85	2.54	15.39	2.0
4.0	12.76	6.42	19.18	1.8

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.7	12.0	1.0	##.#	##.#
4.0	5.0	11.7	1.1	2.2	20.3

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 02 Latitude: 29:01.2 N Hydrolab cast time: 10:00
Date: 11/17/86 Longitude: 90:29.7 W Secchi disk depth (m): 1.5

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.46	25.20	38.41	16.98	7.54	98.8
2.0	21.66	25.60	39.04	17.23	7.50	98.8
4.2	22.10	28.15	42.42	19.03	6.00	80.9
6.1	22.86	30.59	45.98	20.66	5.41	75.1
7.3	22.83	30.50	45.86	20.60	5.33	73.9

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.26	0.73	12.99	2.1
7.3	3.64	3.89	7.53	1.6

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.0	10.7	0.9	0.9	10.3
7.3	6.1	10.9	1.3	0.5	18.8

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 03 Latitude: 28:59.4 N Hydrolab cast time: 10:30
Date: 11/17/86 Longitude: 90:31.2 W Secchi disk depth (m): 1.7

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.45	24.26	37.29	16.27	7.42	96.6
2.0	21.45	25.12	38.31	16.92	7.28	95.3
4.0	22.13	27.83	42.07	18.78	6.61	89.0
6.0	22.18	28.39	42.78	19.19	6.15	83.2
8.0	22.73	30.42	45.67	20.57	5.64	78.0
10.3	22.83	30.83	46.24	20.85	5.58	77.5

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.34	1.24	13.58	2.1
10.3	2.96	2.30	5.26	1.7

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.7	11.0	0.8	0.5	9.2
10.3	5.4	13.9	1.0	0.5	18.9

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 04 Latitude: 28:57.0 N Hydrolab cast time: 11:15
Date: 11/17/86 Longitude: 90:31.5 W Secchi disk depth (m): 2.0

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.77	24.66	38.01	16.49	8.40	110.3
2.0	21.79	26.71	40.46	18.03	7.50	99.7
3.8	22.17	27.99	42.30	18.89	6.47	87.3
6.1	22.55	29.21	44.07	19.70	6.14	84.0
8.0	22.76	30.10	45.31	20.32	6.07	83.8
10.0	22.97	30.83	46.38	20.81	6.23	86.8
12.4	23.11	31.65	47.48	21.39	6.04	84.7

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	17.54	1.38	18.92	2.1
12.4	2.32	3.18	5.50	1.5

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.4	10.8	0.8	0.4	8.8
12.4	4.0	8.5	0.9	0.5	12.5

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 05 Latitude: 28:54.9 N Hydrolab cast time: 11:50
Date: 11/17/86 Longitude: 90:29.4 W Secchi disk depth (m): 2.2

HYDROGRAPHIC DATA
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	21.83	26.55	40.31	17.90	7.25	96.4
1.8	21.72	26.55	40.21	17.93	7.20	95.5
4.0	22.54	29.45	44.34	19.89	6.08	83.3
6.2	22.66	30.82	46.07	20.89	6.42	88.9
7.9	22.75	31.31	46.73	21.23	6.20	86.2
9.7	22.94	31.56	47.21	21.37	6.07	84.8
12.0	23.36	32.15	48.31	21.69	5.35	75.6
14.0	23.95	33.23	50.19	22.34	4.58	65.9
15.0	23.94	33.23	50.18	22.34	4.61	66.3

CHLOROPHYLL DATA
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	12.94	1.06	14.00	2.1
15.0	2.06	2.62	4.68	1.5

NUTRIENT DATA
=====

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	3.8	13.7	0.9	0.4	11.1
15.0	4.2	9.7	1.1	0.9	29.0

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 06 Latitude: 28:51.4 N Hydrolab cast time: 12:40
Date: 11/17/86 Longitude: 90:27.7 W Secchi disk depth (m): 1.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	22.61	27.85	42.51	18.66	7.47	101.6
2.5	22.90	30.18	45.54	20.34	6.90	95.6
5.0	23.18	32.14	48.13	21.74	5.97	84.1
7.1	23.37	32.15	48.32	21.69	5.71	80.7
9.0	23.53	32.89	49.36	22.20	5.66	80.6
10.9	23.55	32.89	49.38	22.20	5.69	81.1
13.0	23.55	32.89	49.38	22.20	5.84	83.2
15.0	23.74	33.22	49.96	22.40	5.50	78.8
17.0	24.54	34.25	52.00	22.93	4.42	64.6
19.0	24.59	34.00	51.76	22.73	4.47	65.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	17.64	0.85	18.49	2.1
19.0	1.60	3.82	5.42	1.4

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.5	9.9	0.8	0.4	11.2
19.0	4.3	8.1	0.8	0.4	14.6

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 07 Latitude: 28:49.9 N Hydrolab cast time: 13:30
Date: 11/17/86 Longitude: 90:23.5 W Secchi disk depth (m): 1.8

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.37	27.95	43.29	18.53	8.60	118.7
2.3	23.37	28.11	43.49	18.65	8.50	117.4
4.1	23.47	32.07	48.32	21.60	6.56	92.9
6.0	23.58	32.24	48.63	21.70	5.90	83.8
8.0	24.03	33.15	50.17	22.26	5.56	80.0
10.0	23.90	33.97	51.01	22.91	6.11	88.2
12.0	24.20	34.39	51.83	23.14	5.70	82.9
13.8	24.50	34.90	52.75	23.44	5.28	77.4
16.0	24.55	34.58	52.41	23.18	5.20	76.2
18.0	25.02	34.85	53.22	23.24	4.52	66.9
19.7	25.51	35.70	54.78	23.73	3.09	46.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	18.56	1.43	19.99	2.1
19.7	1.05	1.46	2.51	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.2	5.8	0.6	0.3	9.3
19.7	2.9	8.8	0.5	0.8	19.2

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie)

Station: 08 Latitude: 28:47.3 N Hydrolab cast time: 14:50
Date: 11/17/86 Longitude: 90:16.6 W Secchi disk depth (m): 5.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	23.37	31.09	47.06	20.89	7.12	100.0
2.2	23.38	31.17	47.17	20.95	7.12	100.1
4.0	23.36	30.85	46.76	20.71	7.13	100.0
6.0	23.17	31.24	47.06	21.07	7.05	98.8
8.0	23.41	32.72	49.04	22.11	6.38	90.6
10.0	23.78	33.72	50.59	22.76	6.21	89.3
12.1	24.20	34.56	52.02	23.27	6.00	87.4
14.0	24.50	34.57	52.35	23.19	5.90	86.4
15.8	24.44	34.90	52.68	23.46	5.93	86.9
18.0	24.69	35.08	53.16	23.51	5.42	79.9
20.0	24.71	35.24	53.38	23.63	5.40	79.7
22.2	24.71	35.33	53.48	23.70	5.41	79.8
24.5	24.71	35.16	53.28	23.57	5.45	80.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	3.68	0.61	4.29	2.0
24.5	0.70	0.91	1.61	1.5

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	2.7	8.3	0.4	0.5	15.5
24.5	4.2	7.0	0.7	0.2	8.1

CRUISE DATA - TRANSECT C
(off Cat Island Pass, Cocodrie).

Station: 09 Latitude: 28:45.5 N Hydrolab cast time: 15:25
Date: 11/17/86 Longitude: 90:14.0 W Secchi disk depth (m): 3.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
0.0	22.60	30.09	45.16	20.36	7.01	96.5
3.1	22.60	29.93	44.97	20.24	7.03	96.7
6.0	22.76	31.47	46.93	21.35	6.86	95.5
8.9	23.75	33.96	50.85	22.95	6.33	91.1
12.0	24.13	34.72	52.14	23.41	6.23	90.7
15.2	24.33	35.06	52.76	23.61	6.21	90.9
18.0	24.33	35.14	52.86	23.67	6.23	91.2
20.9	24.39	34.81	52.53	23.41	6.20	90.7
24.0	24.73	35.83	54.09	24.07	6.05	89.6
27.0	24.98	36.17	54.78	24.25	5.71	85.1
29.5	25.00	35.92	54.50	24.06	5.65	84.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
0.0	2.76	0.54	3.30	2.0
29.5	0.48	0.56	1.04	1.6

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
0.0	4.0	9.4	0.4	0.5	17.8
29.5	4.2	5.2	0.7	0.3	5.8