

Louisiana Universities Marine Consortium  
Data Report No. 3

Hydrographic, Biological, and Nutrient  
Characteristics of the Water Column  
on the Louisiana Shelf,  
July and September, 1985

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. Two shelf-wide, quasi-synoptic cruises were conducted from the Mississippi River to the Texas border during mid-July and early September, 1985. Cruises were conducted aboard the R/V Pelican on 15-20 July and 10-13 September. Stations were occupied along ten transects in 5 to 80 m water depth. Stations for Pelican Cruise I extended farther offshore and farther to the west than those for Pelican Cruise II. In addition to these shelf-wide cruises, hypoxic ( $< 2 \text{ mg/l O}_2$ ) bottom waters were studied more frequently along two transects in the Mississippi River Delta Bight area (see LUMCON Data Report No. 2; Rabalais et al., 1986).

## Methods

Temperature, pH, dissolved oxygen, conductivity, salinity and depth were measured with a Hydrolab Surveyor II Water Quality Data System at 1, 2, 3, or 5-m intervals through the water column. Readings from a digital display unit were recorded on board ship. Conductivity in  $25^\circ\text{C}$  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 to (Strickland and Parsons, 1972). Operation, maintenance, and calibration of the Hydrolab Surveyor II followed instructions provided by the Hydrolab manual (Hydrolab Corp., 1984).

Water for chlorophyll and nutrient analyses was collected from surface, mid-depths, and bottom waters in Niskin bottles. Samples for nutrient concentrations were frozen on board ship for later analysis. Nitrogen and phosphorous 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 through glass fiber filters which were then fixed in 90% aqueous acetone. The chlorophyll extracts were frozen until analysis within 8-10 hours. Analysis for chlorophyll and phaeopigment concentrations followed the fluorometric methods outlined in Strickland and Parsons (1972).

## Results

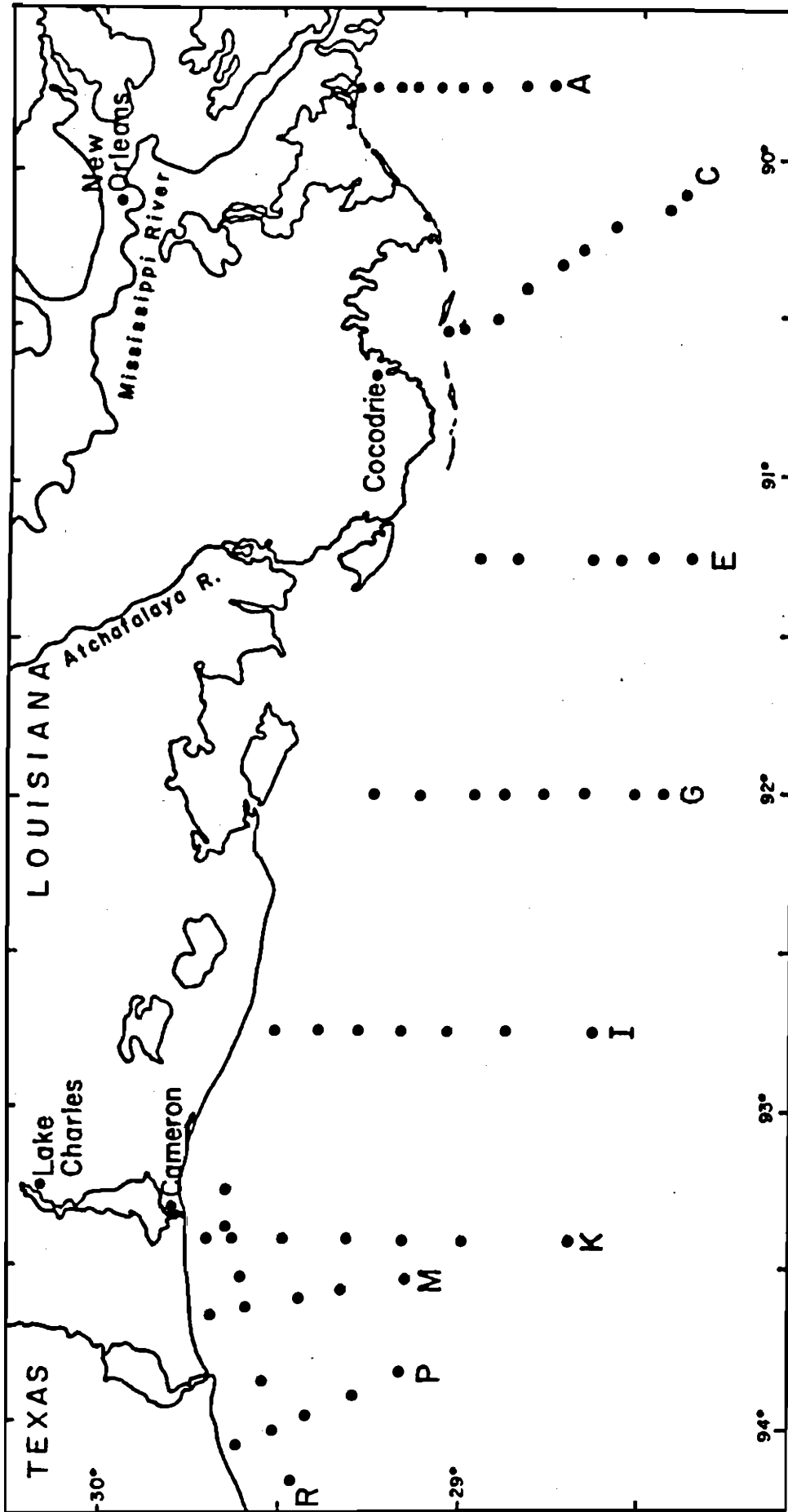
Selected parameters (dissolved oxygen and sigma-t) are illustrated for each transect on each cruise. These and additional parameters are contoured for the entire shelf. Hydrographic, chlorophyll, and nutrient data for the cruise follow the figures. Results are presented first for Pelican Cruise I, then for Pelican Cruise II.

## ACKNOWLEDGEMENTS

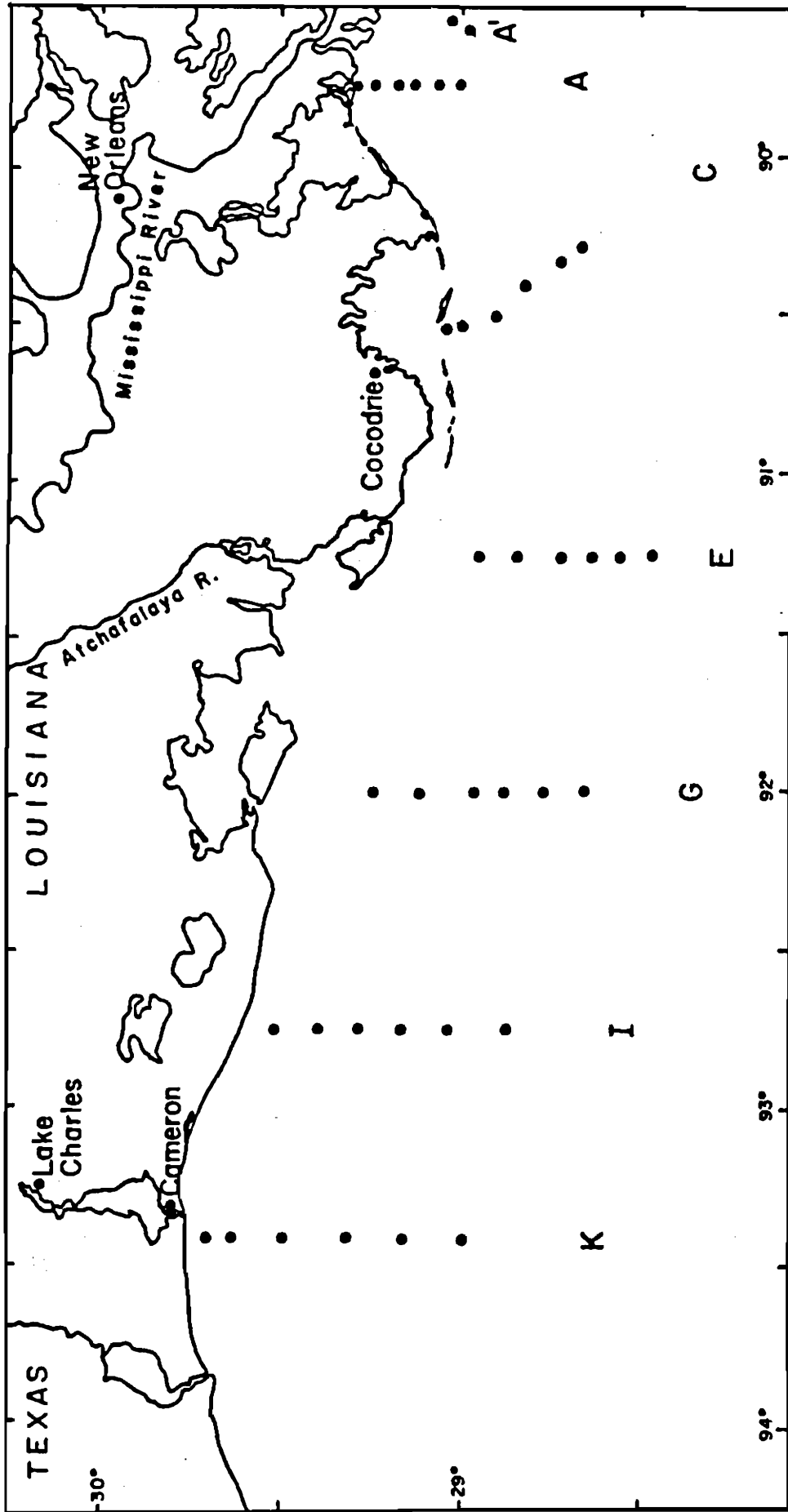
Funds for this research were provided by the National Oceanic and Atmospheric Administration, Ocean Assessments Division, through the Louisiana Sea Grant Program, by the Louisiana Universities Marine Consortium, and by Louisiana State University. We acknowledge the assistance of M.J. Dagg, M. Murrell, E. Walser, T. Oswald, S. Dinnel, J. Lee, D. Harper, D. Guidry, P. Rutledge and the captain and crew of the R/V Pelican.

## LITERATURE CITED

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- Hydrolab Corp. 1984. (Rev. 1985) Operation and Maintenance Manual for Hydrolab Surveyor II. Hydrolab Corp., Austin, Texas, 59 p.
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- Strickland, J.D.H. and T.R. Parsons. 1972. (2nd ed.) A Practical Handbook of Seawater Analysis. Fisheries Research Board of Canada, Bull. 167, Ottawa, 310 p.
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Transects and stations for Pelican Cruise I



Transects and stations for Pelican Cruise II

### List of Transects

- A' Off Tiger Pass to Southwest Pass
- A Off Barataria Bay
- C Off Cat Island Pass, Cocodrie
- E Off Point au Fer Island, Fourleague Bay
- G Off Vermilion Bay, Marsh Island
- I Off Grand Lake
- K Off Cameron
- M Off Sabine
- P Off High Island
- R Parallel to shore @ 10 m depth from High Island to Cameron

Transect A'  
Off Tiger Pass to Southwest Pass

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1	15	4.6	29°08.00'N	89°28.50'W
2	30	9.1	29°05.50'N	89°30.00'W
3 <sup>+</sup>	48	14.6	29°02.00'N	89°32.00'W
4 <sup>+</sup>	90	27.4	28°59.00'N	89°34.00'W
5	180	54.8	28°57.00'N	89°34.50'W

<sup>+</sup>Pelican Cruise II

Transect A  
Off Barataria Bay

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1 <sup>*+</sup>	16	4.8	29°17.40'N	89°45.00'W
2 <sup>*+</sup>	34	10.2	29°14.35'N	89°45.00'W
3 <sup>*+</sup>	50	15.0	29°10.70'N	89°45.00'W
4 <sup>*+</sup>	66	19.8	29°08.00'N	89°45.00'W
5 <sup>*+</sup>	99	29.7	29°04.20'N	89°45.00'W
6 <sup>*+</sup>	132	39.6	29°00.50'N	89°45.00'W
7 <sup>*</sup>	164	49.2	28°56.50'N	89°45.00'W
8 <sup>*</sup>	210	63.0	28°50.00'N	89°45.00'W
9 <sup>*</sup>	270	81.0	28°45.00'N	89°45.00'W

\* Pelican Cruise I  
<sup>+</sup> Pelican Cruise II



Transect C  
Off Cat Island Pass, Cocodrie

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1 <sup>*+</sup>	1.8	5.5	29°03.40'N	90°31.90'W
2	25.5	7.6	29°01.20'N	90°29.67'W
3 <sup>*+</sup>	35	10.6	28°59.44'N	90°31.25'W
4	42.5	12.8	28°57.00'N	90°31.46'W
5 <sup>*+</sup> KM-ST-34 A & B	51	15.5	28°54.88'N	90°29.35'W
6 Union ST-53A & Aux	62	19.2	28°51.44'N	90°27.68'W
6A Union-ST-53B	62	19.2	28°50.41'N	90°26.03'W
7 <sup>*+</sup> Exxon ST-54A	66	20.1	28°49.93'N	90°23.53'W
8	80	24.4	28°47.30'N	90°16.60'W
8A <sup>*+</sup>	82	24.6	28°44.00'N	90°19.50'W
9 Odeco ST 86-3	97.5	29.2	28°45.50'N	90°14.00'W
9A <sup>*+</sup>	98	29.4	28°40.50'N	90°16.50'W
10	146	43.8	28°36.60'N	90°14.00'W
11 <sup>*</sup>	165	49.5	28°35.20'N	90°12.20'W
12 <sup>*</sup>	216	65.4	28°25.50'N	90°09.00'W
13 <sup>*</sup>	266	80.0	28°23.00'N	90°06.00'W

\*Pelican Cruise I  
+Pelican Cruise II

Transect E

Off Point au Fer Island, Fourleague Bay

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1 <sup>*+</sup>	18	5.4	28°58.00'N	91°15.00'W
2 <sup>*+</sup>	21	6.3	28°51.50'N	91°15.00'W
2A <sup>+</sup>	48	14.6	28°44.50'N	91°15.00'W
3 <sup>*+</sup>	66	20.0	28°39.50'N	91°15.00'W
4 <sup>*+</sup>	96	28.8	28°35.00'N	91°15.00'W
5 <sup>*+</sup>	120	36.0	28°29.00'N	91°15.00'W
6 <sup>*</sup>	186	55.8	28°22.50'N	91°15.00'W
7	240	72.0	28°15.00'N	91°15.00'W
8	262	80.0	28°00.00'N	91°15.00'W

\* Pelican Cruise I  
 + Pelican Cruise II

Transect G  
Off Vermilion Bay, Marsh Island

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1 <sup>*+</sup>	24	7.2	29°15.50'N	92°00.00'W
2 <sup>*+</sup>	30	9.0	29°08.00'N	92°00.00'W
3 <sup>*+</sup>	60	18.0	28°59.00'N	92°00.00'W
4 <sup>*+</sup>	81	24.3	28°54.00'N	92°00.00'W
5 <sup>*+</sup>	99	29.7	28°47.50'N	92°00.00'W
6 <sup>*+</sup>	117	35.0	28°40.50'N	92°00.00'W
7 <sup>*</sup>	144	43.2	28°32.00'N	92°00.00'W
8 <sup>*</sup>	168	50.4	28°27.50'N	92°00.00'W

\* Pelican Cruise I  
+ Pelican Cruise II

Transect I  
Off Grand Lake

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1 <sup>*+</sup>	34.5	10.0	29°32.00'N	92°45.00'W
2 <sup>*+</sup>	48	14.4	29°24.50'N	92°45.00'W
3 <sup>*+</sup>	54	16.2	29°17.70'N	92°45.00'W
4 <sup>*+</sup>	60	18.0	29°10.50'N	92°45.00'W
5 <sup>*+</sup>	81	24.3	29°03.00'N	92°45.00'W
6 <sup>*+</sup>	85.5	25.6	28°53.50'N	92°45.00'W
7	99	29.7	28°45.50'N	92°45.00'W
8 <sup>*</sup>	117	35.1	28°38.50'N	92°45.00'W

\* Pelican Cruise I  
+ Pelican Cruise II

Transect K

Off Cameron

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1 <sup>*+</sup>	24	7.2	29°42.40'N	93°25.00'W
2 <sup>*+</sup>	33	9.9	29°38.50'N	93°25.00'W
3 <sup>*+</sup>	33.6	10.1	29°29.30'N	93°25.00'W
4 <sup>*+</sup>	48	14.4	29°19.50'N	93°25.00'W
5 <sup>*+</sup>	60	18.0	29°10.00'N	93°25.00'W
6 <sup>*+</sup>	72	21.6	29°00.00'N	93°25.00'W
7	72	21.6	28°49.00'N	93°25.00'W
8 <sup>*</sup>	99	29.7	28°42.00'N	93°25.00'W

\* Pelican Cruise I  
 + Pelican Cruise II

Transect M

Off Sabine

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1*	21	6.3	29°42.00'N	93°39.30'W
2*	36	10.8	29°35.80'N	93°37.75'W
3*	39	11.7	29°27.00'N	93°36.20'W
4*	36	10.8	29°20.00'N	93°34.70'W
5*	60	18.0	29°09.50'N	93°32.50'W

\*Pelican Cruise I

Transect P  
Off High Island

<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1*	22.5	6.8	29°37.00'N	94°04.00'W
2*	36	10.8	29°31.00'N	94°01.00'W
3*	40.5	12.2	29°25.50'N	93°58.00'W
4*	45	13.5	29°18.00'N	93°54.00'W
5*	54	16.2	29°10.00'N	93°49.70'W

\*Pelican Cruise I

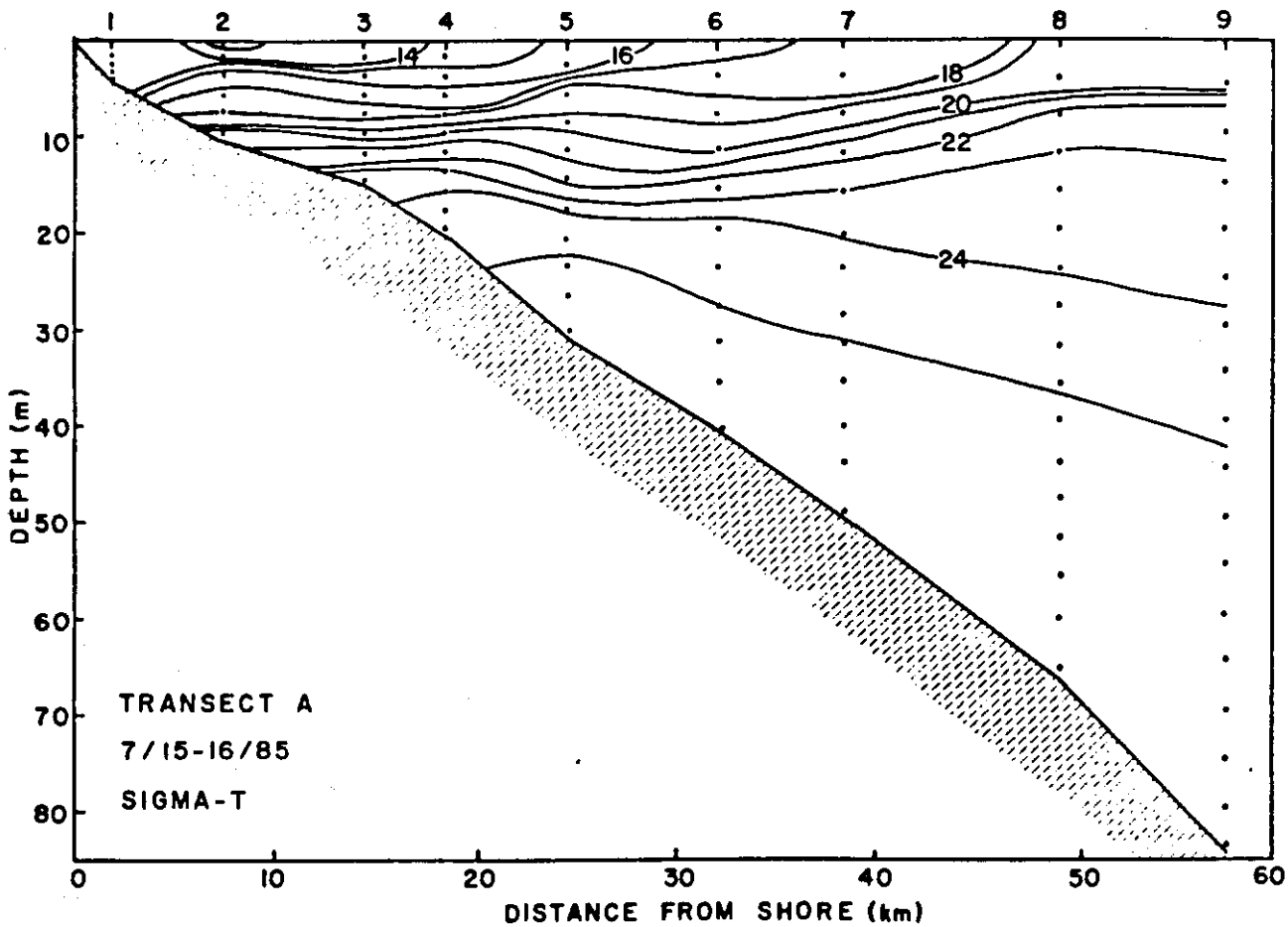
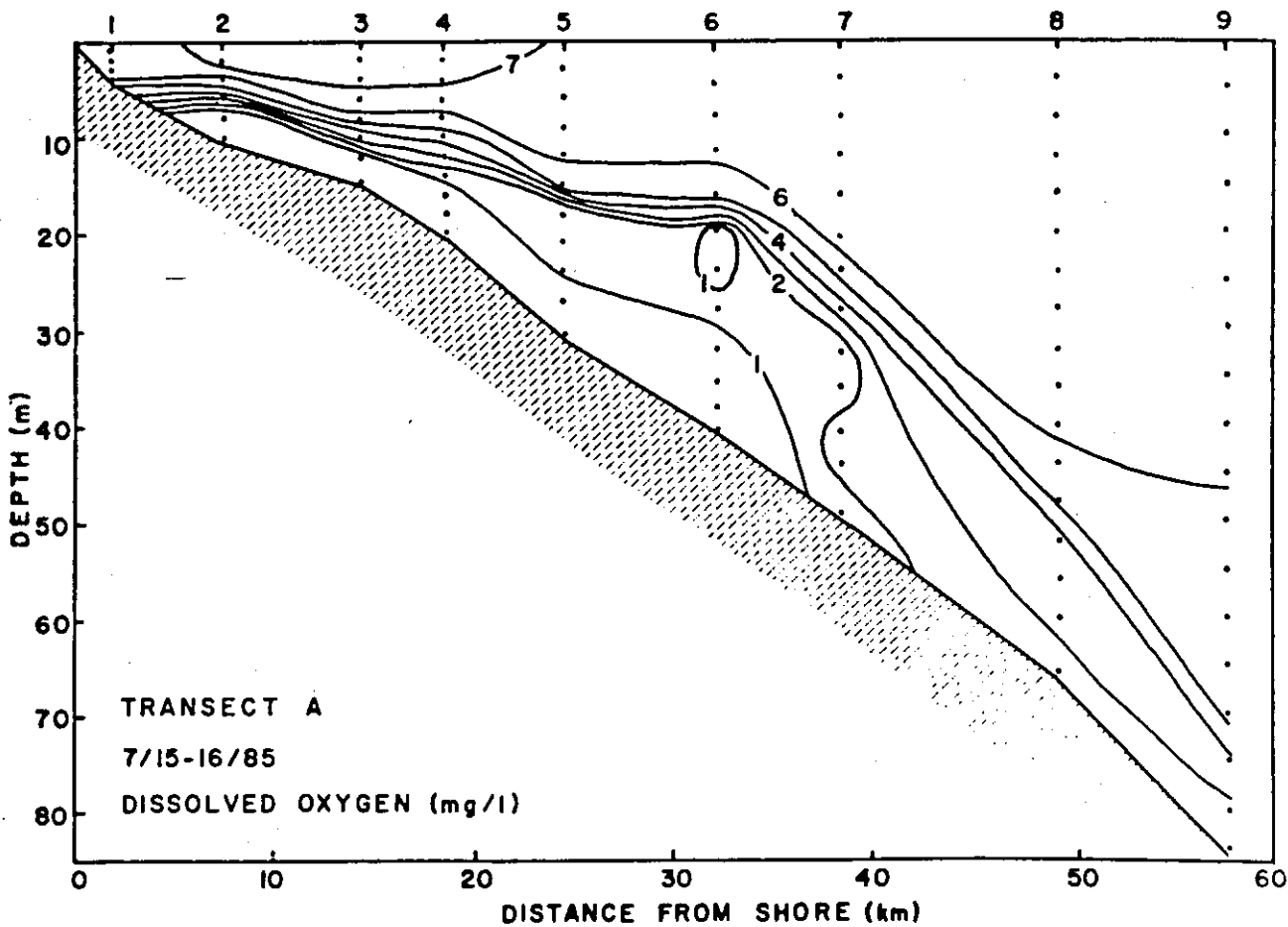
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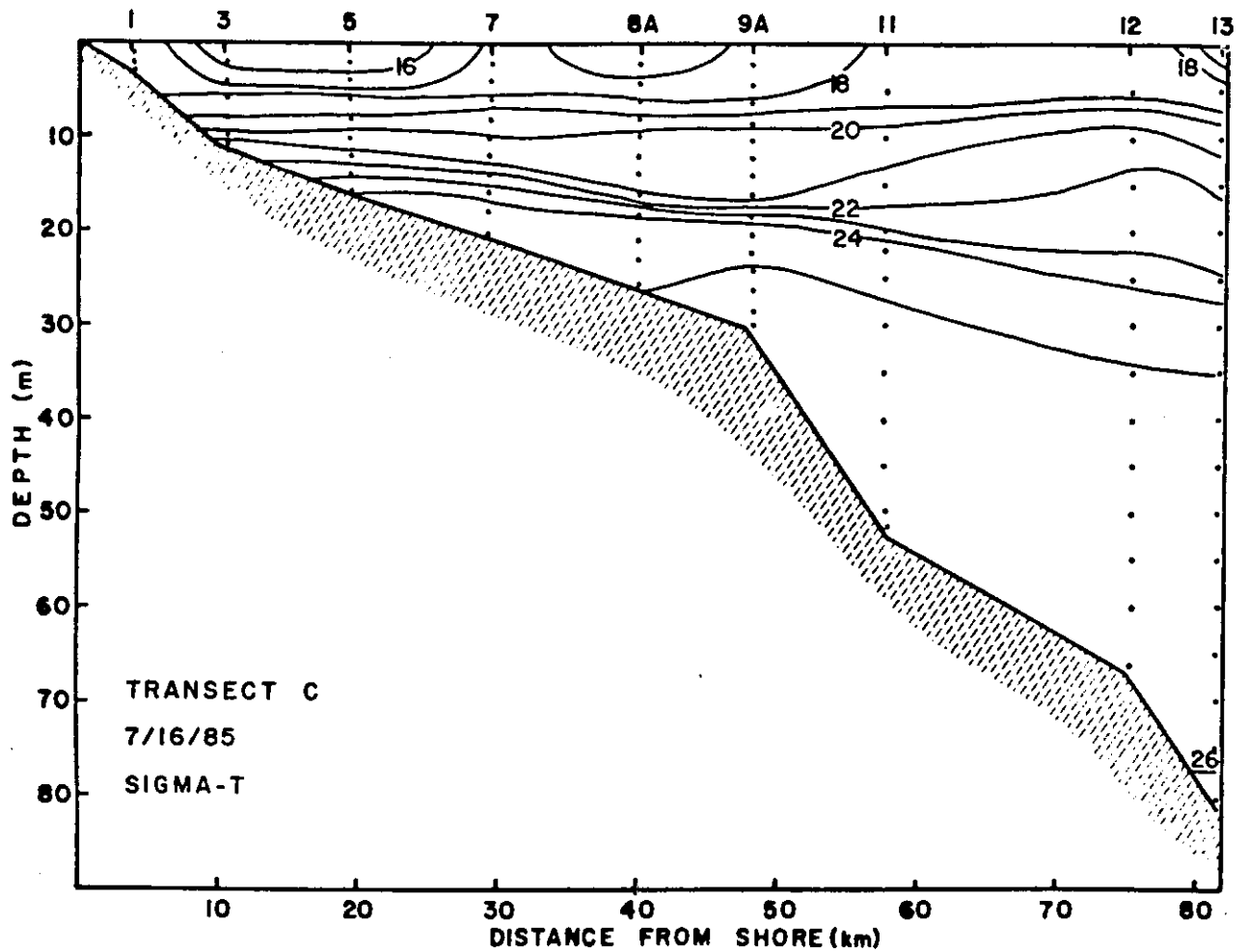
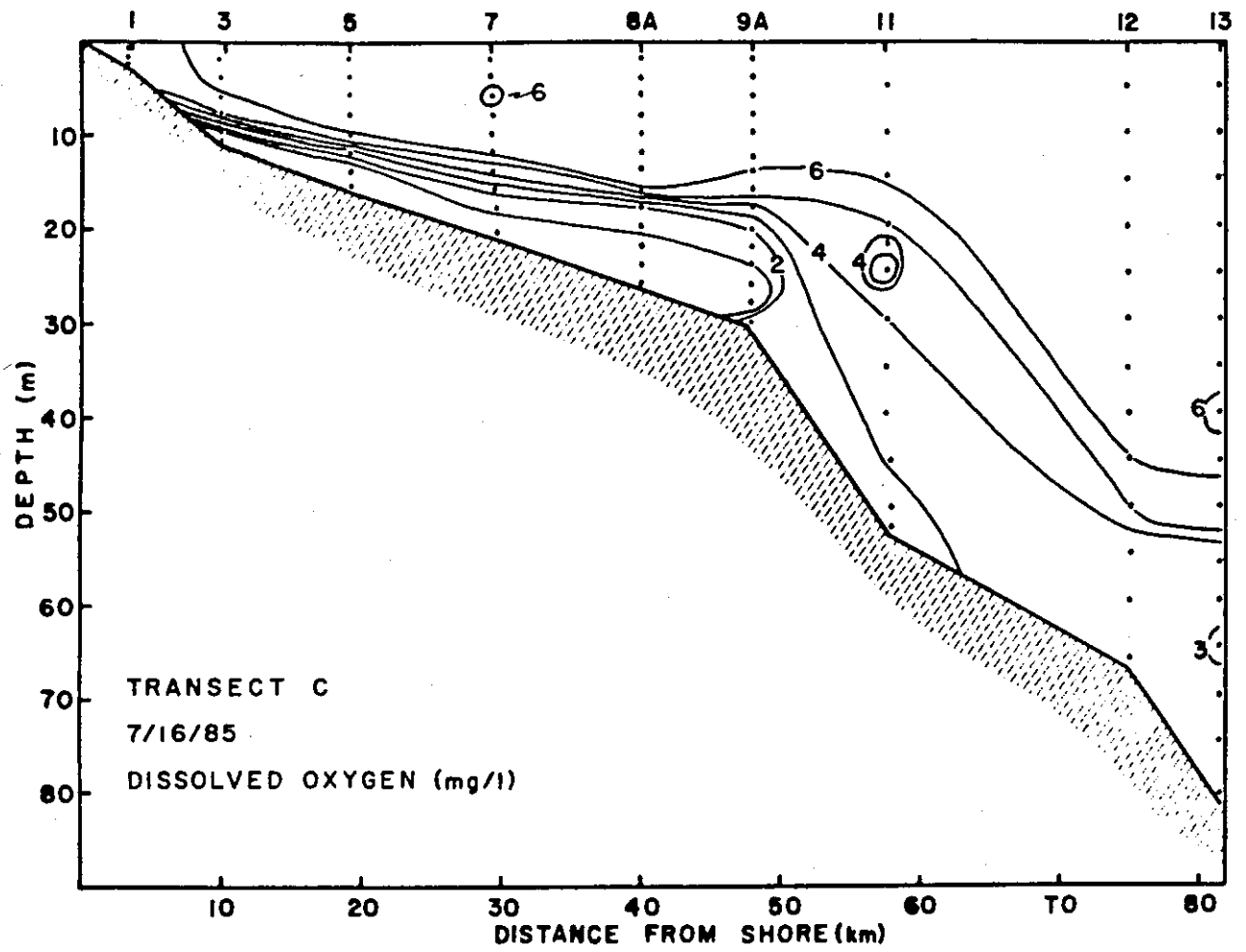
Parallel to shore @ 10 m depth from High Island to Cameron

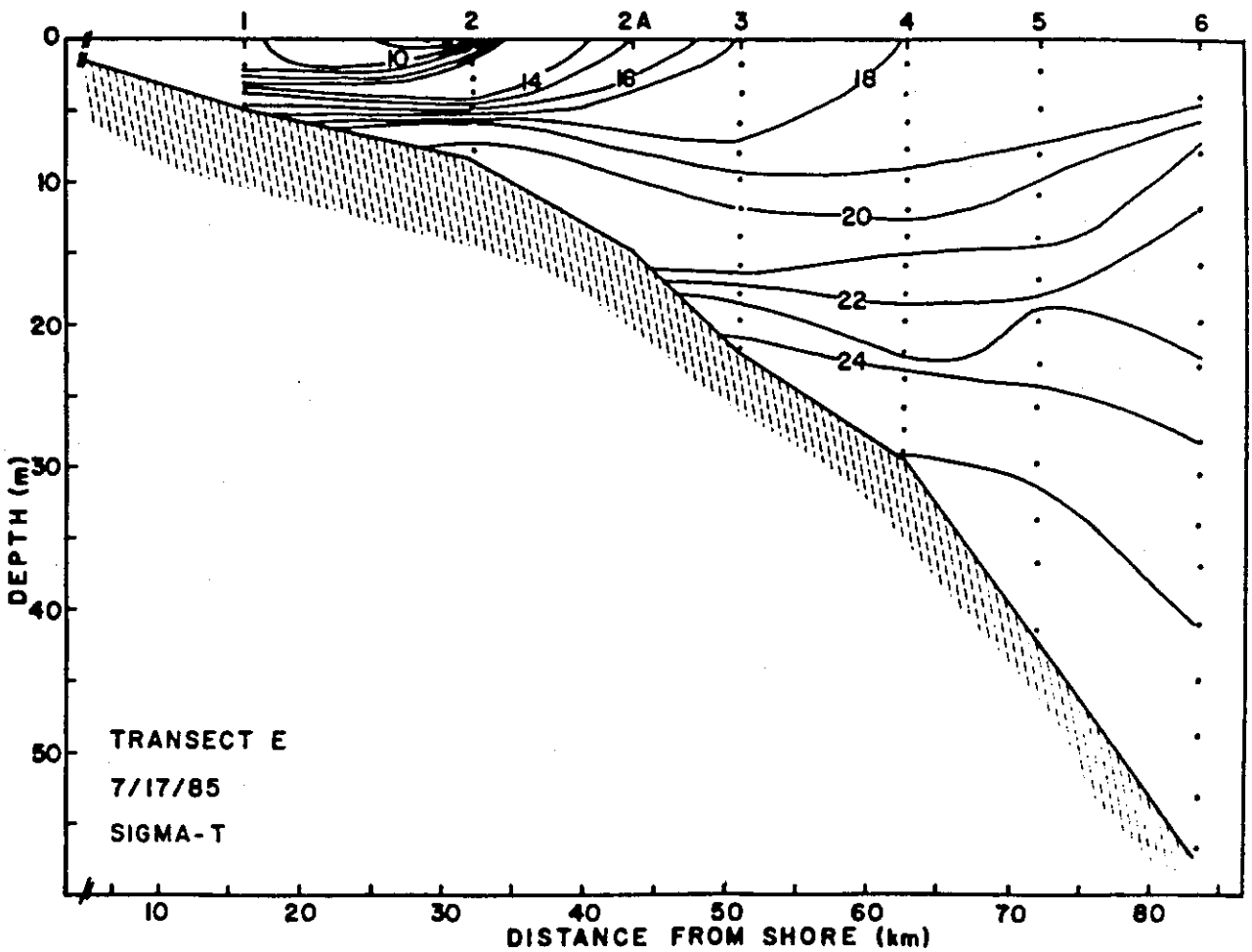
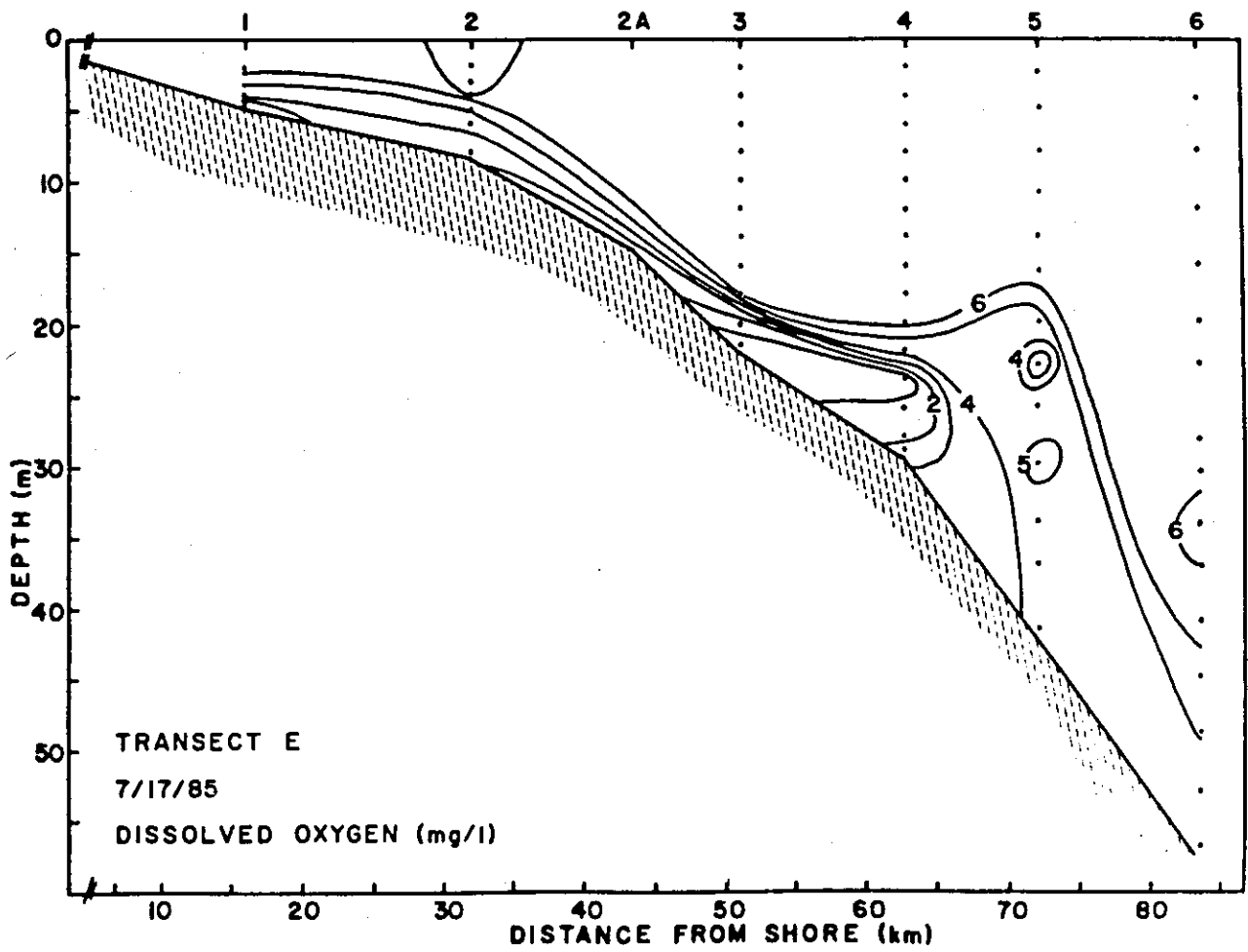
<u>Station</u>	<u>Depth (ft)</u>	<u>Depth (m)</u>	<u>Latitude</u>	<u>Longitude</u>
1*	36	10.0	29°27.50'N	94°10.50'W
2*	36	10.0	29°33.00'N	93°52.00'W
3*	36	10.0	29°37.00'N	93°32.00'W
4*	36	10.0	29°39.30'N	93°22.50'W
5*	36	10.0	29°39.40'N	93°15.50'W

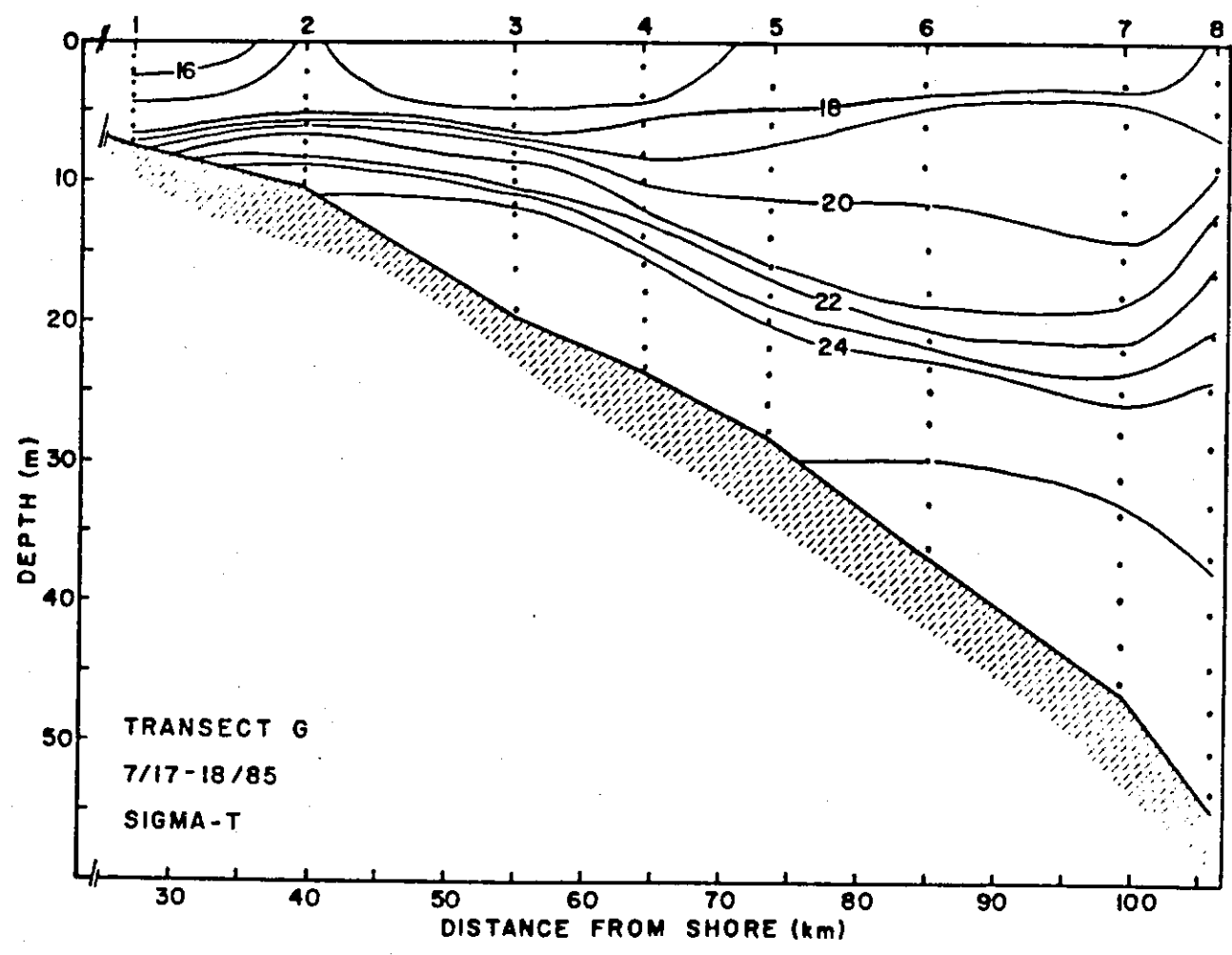
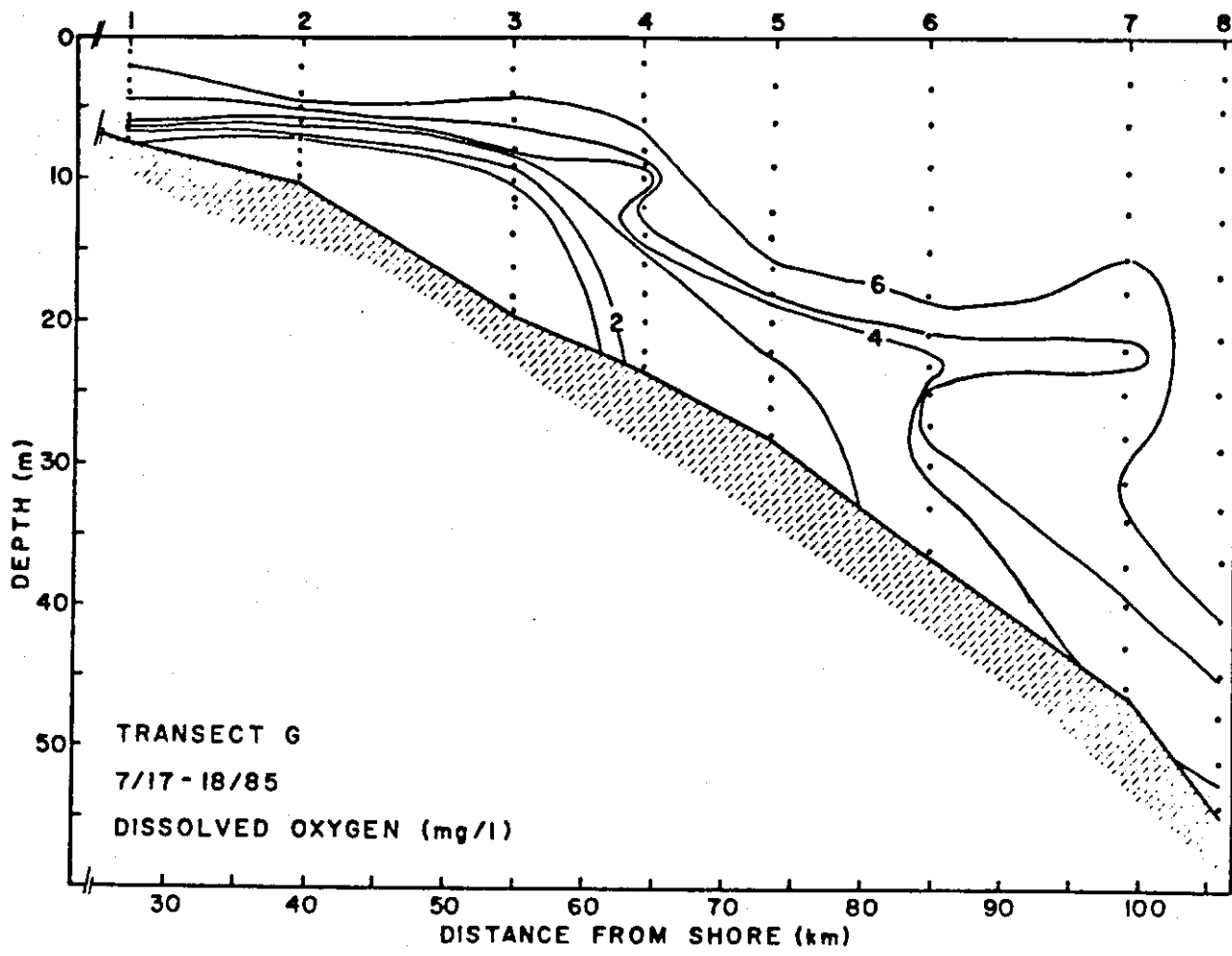
\* Pelican Cruise I

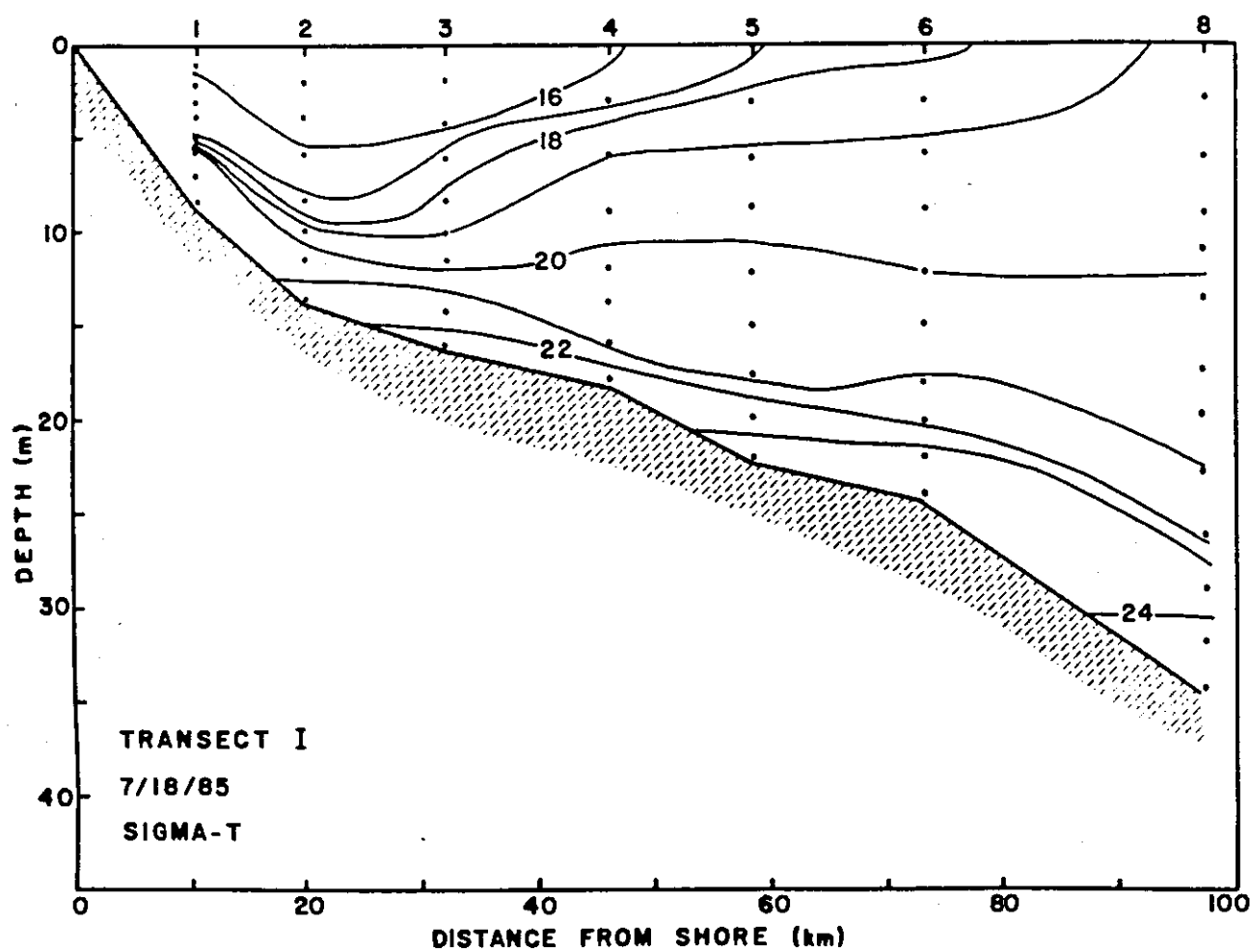
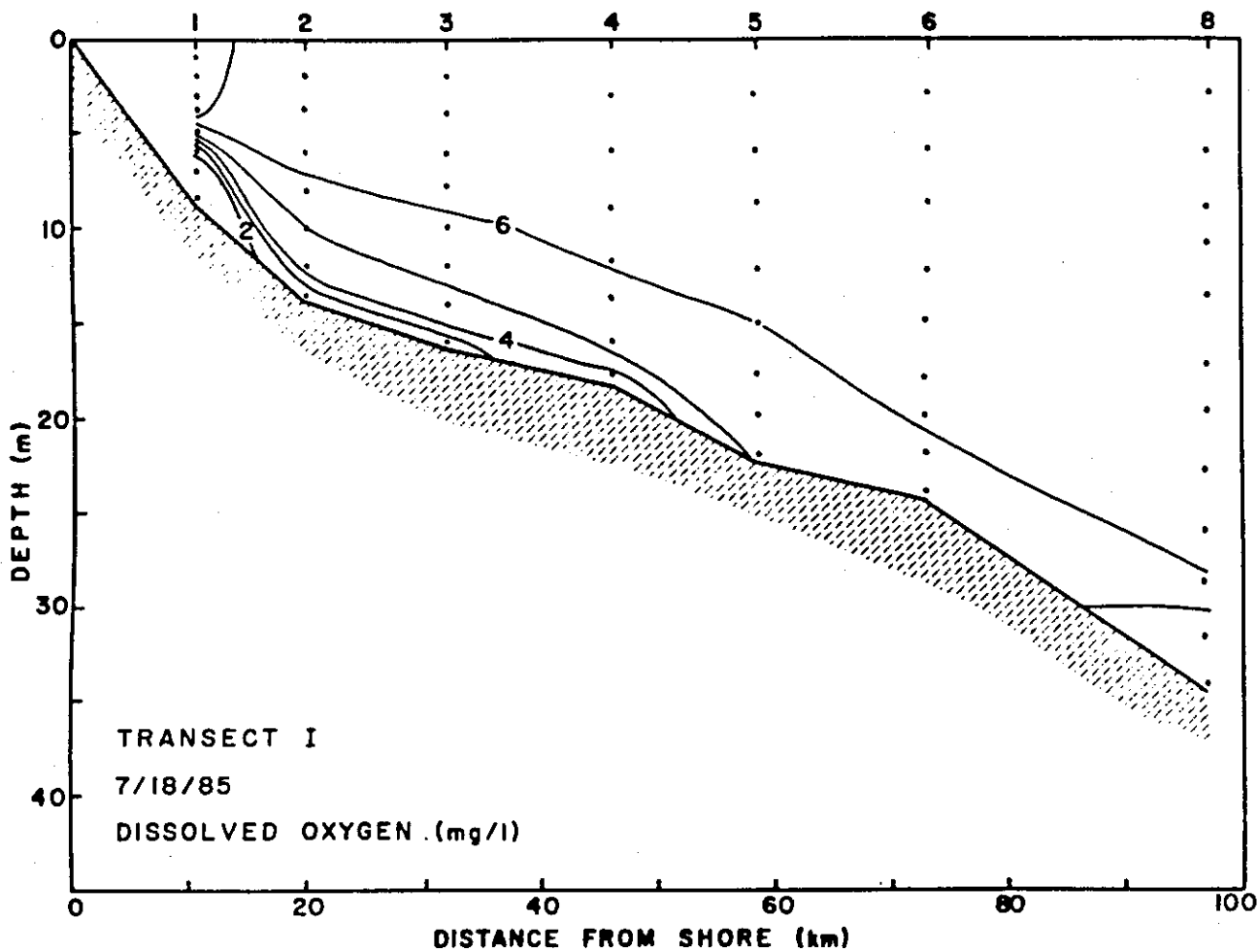


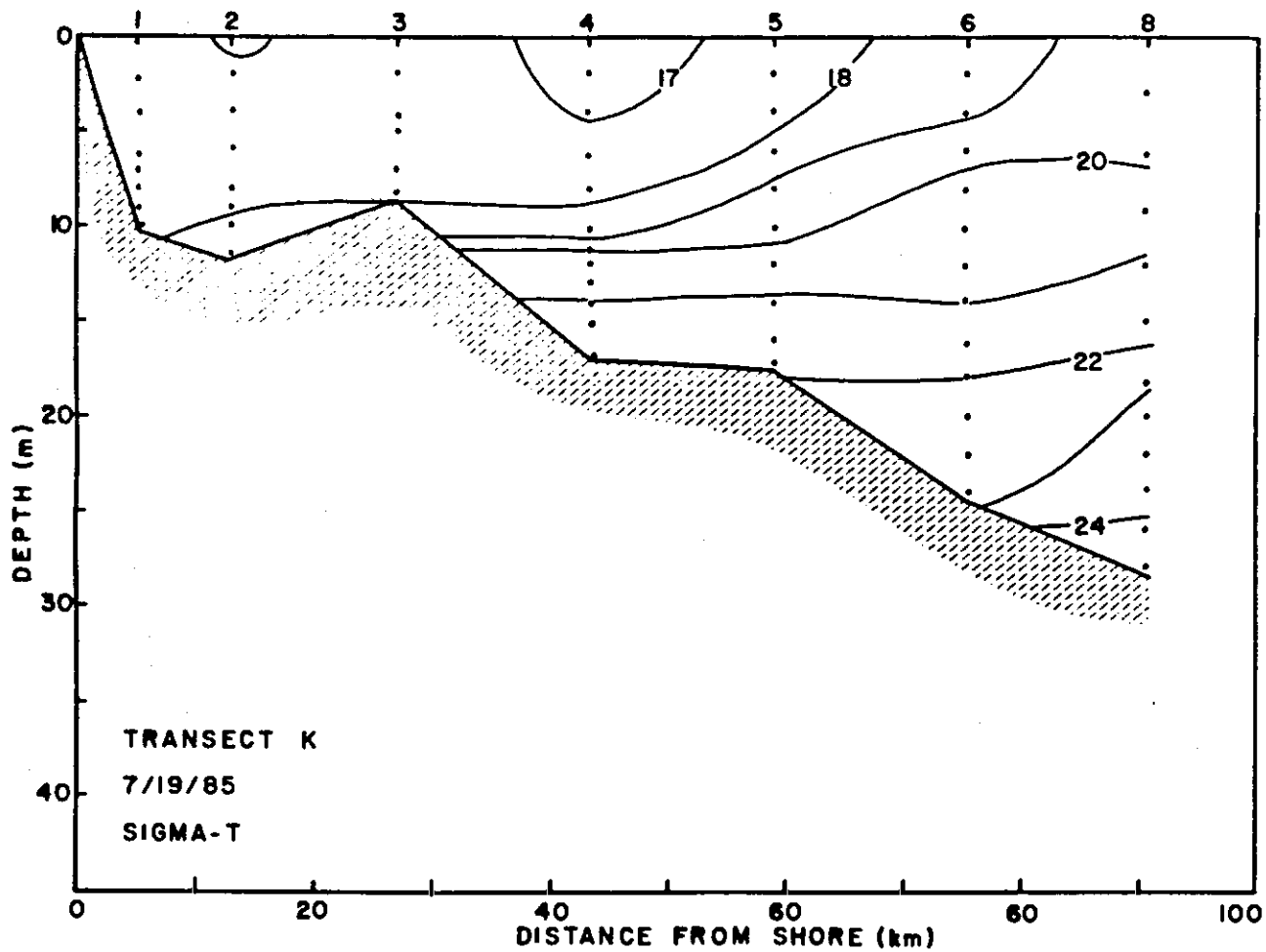
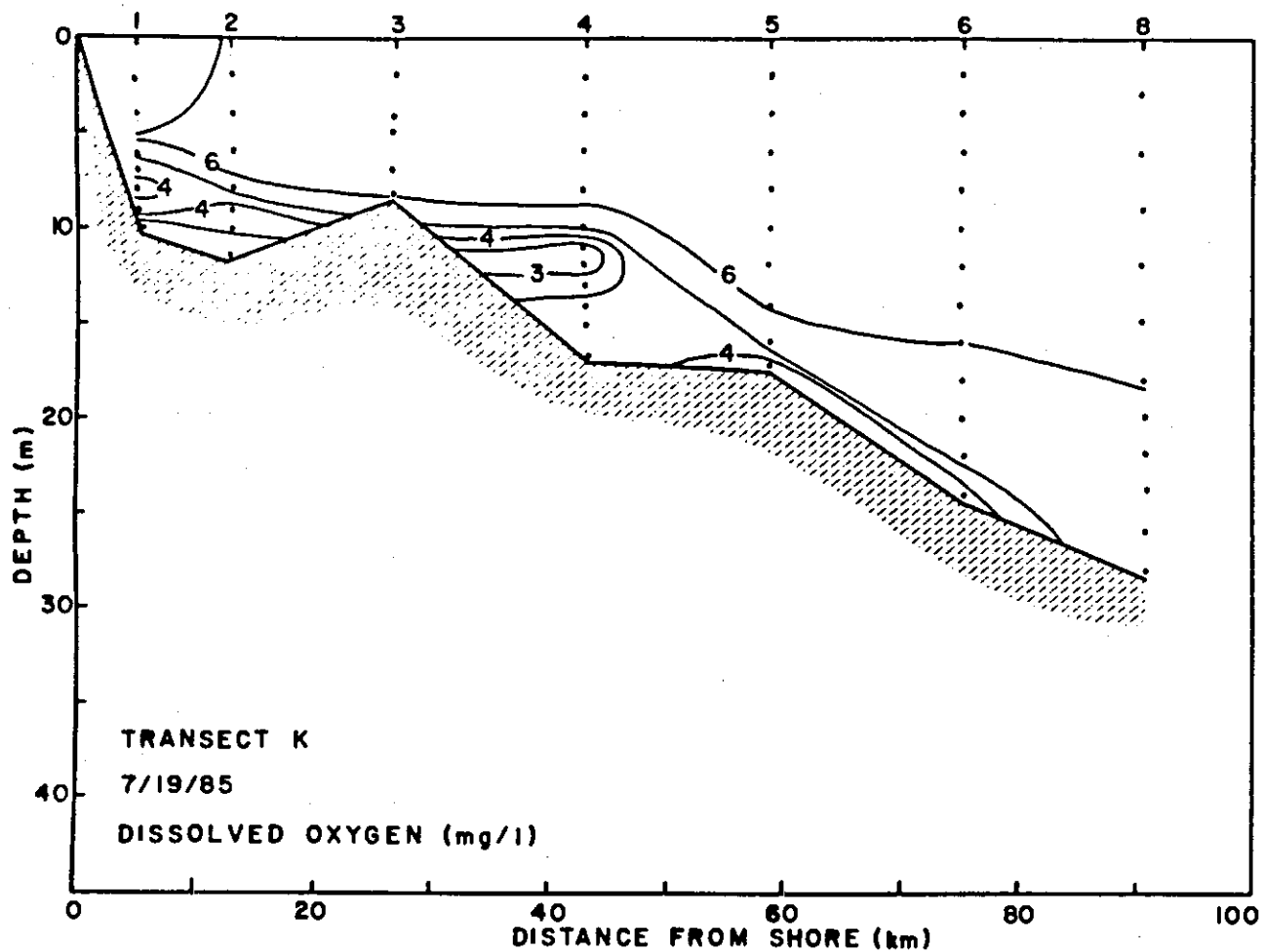


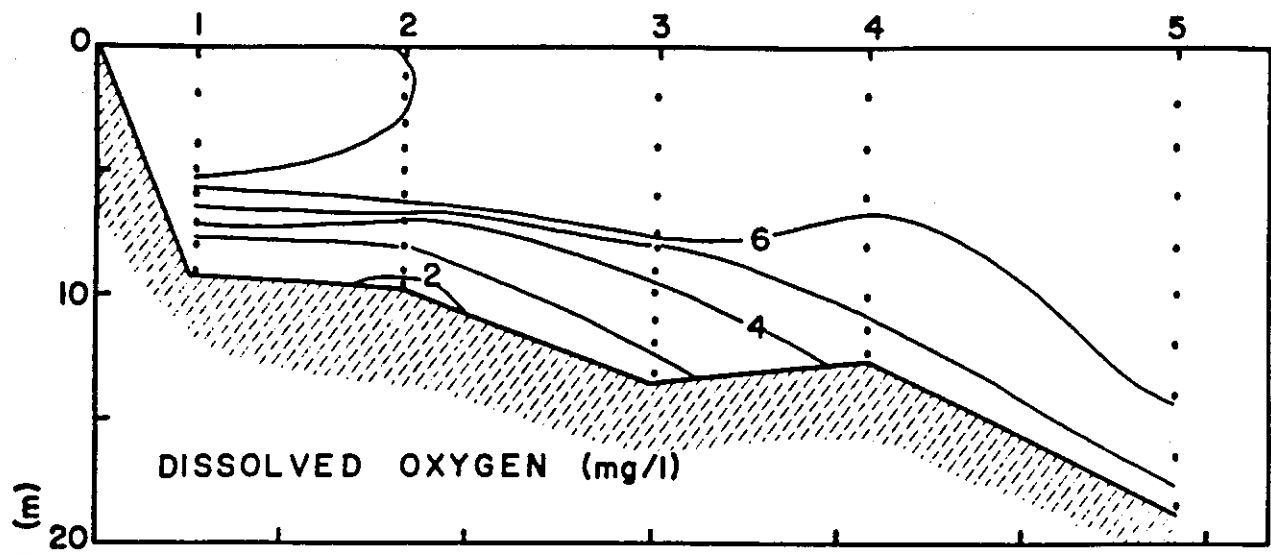






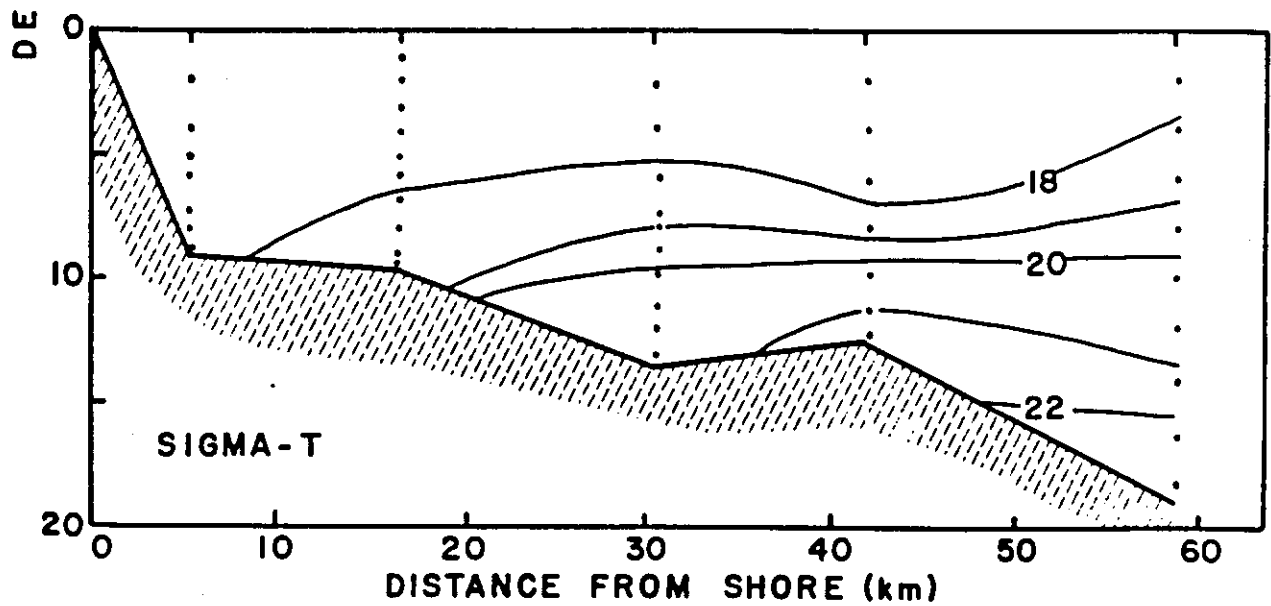




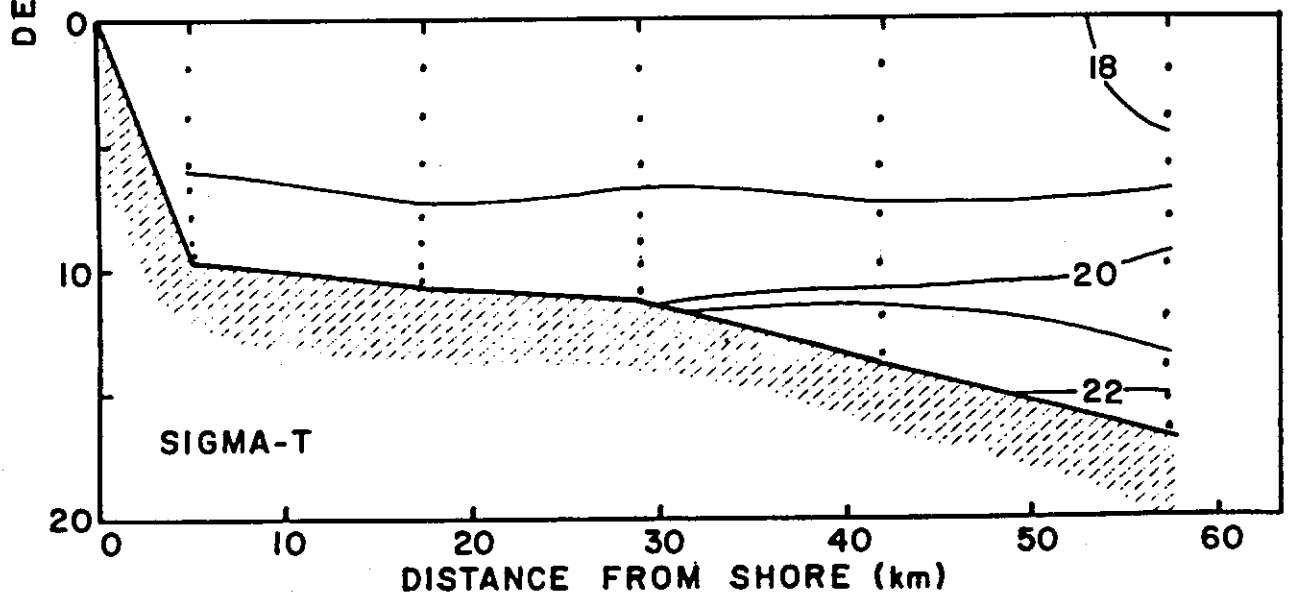
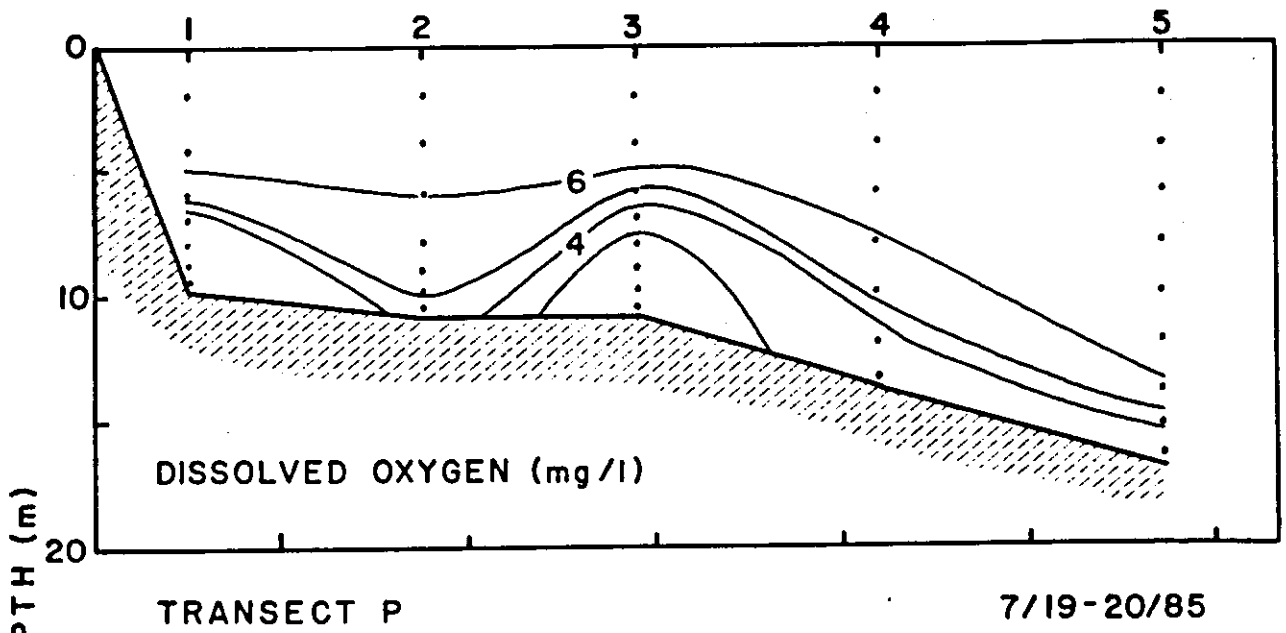


TRANSECT M

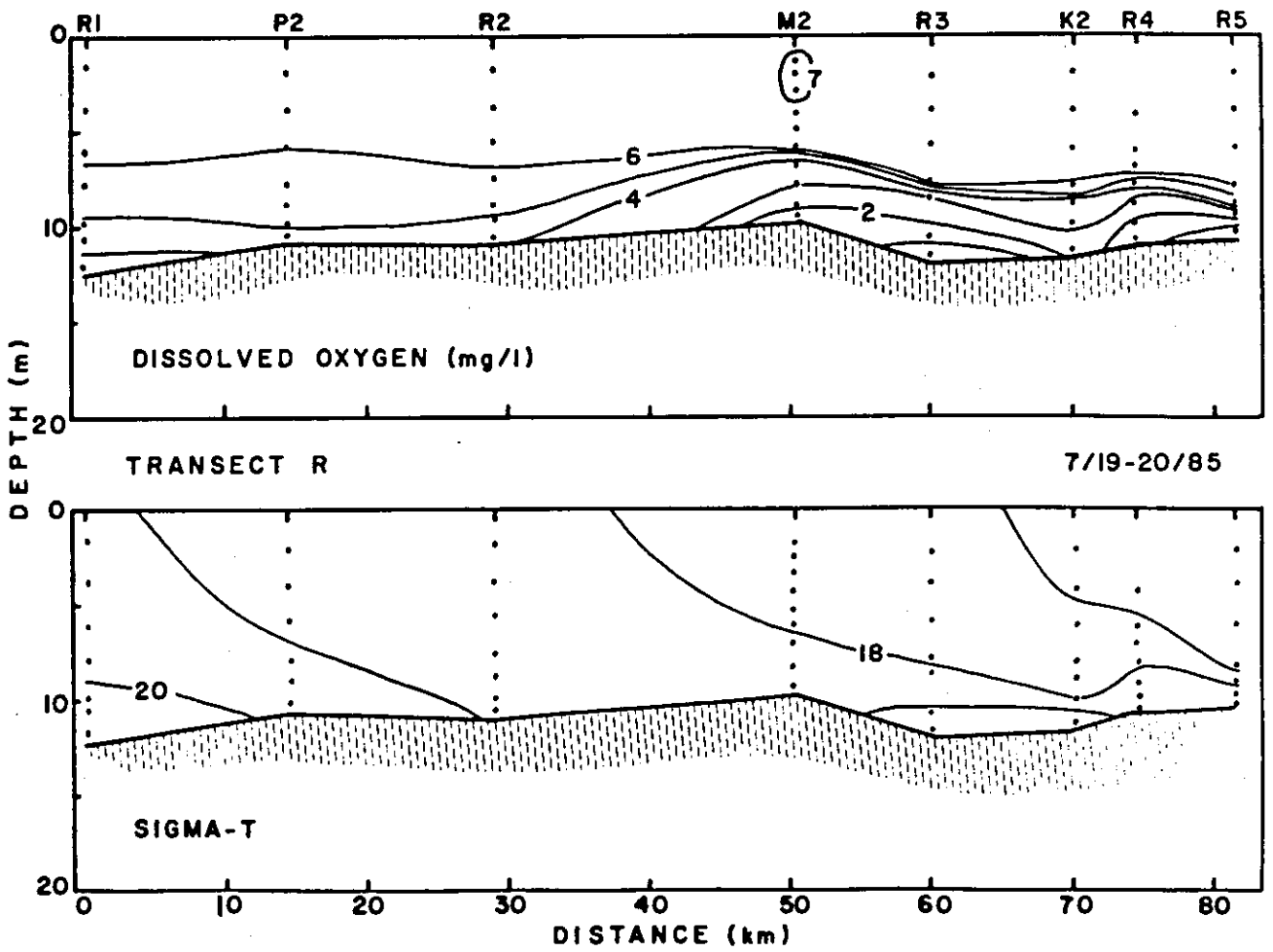
7/19/85



DISTANCE FROM SHORE (km)

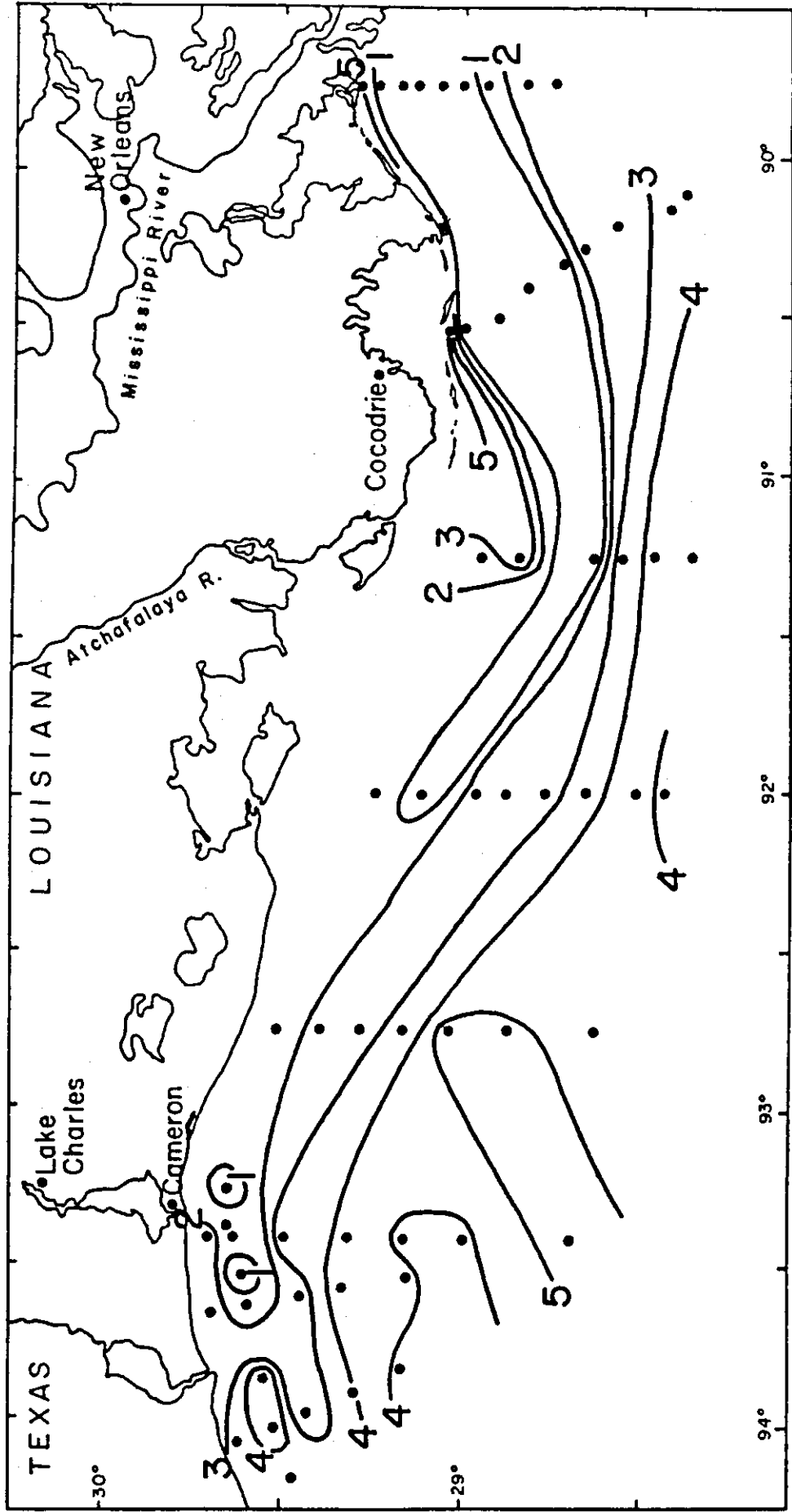






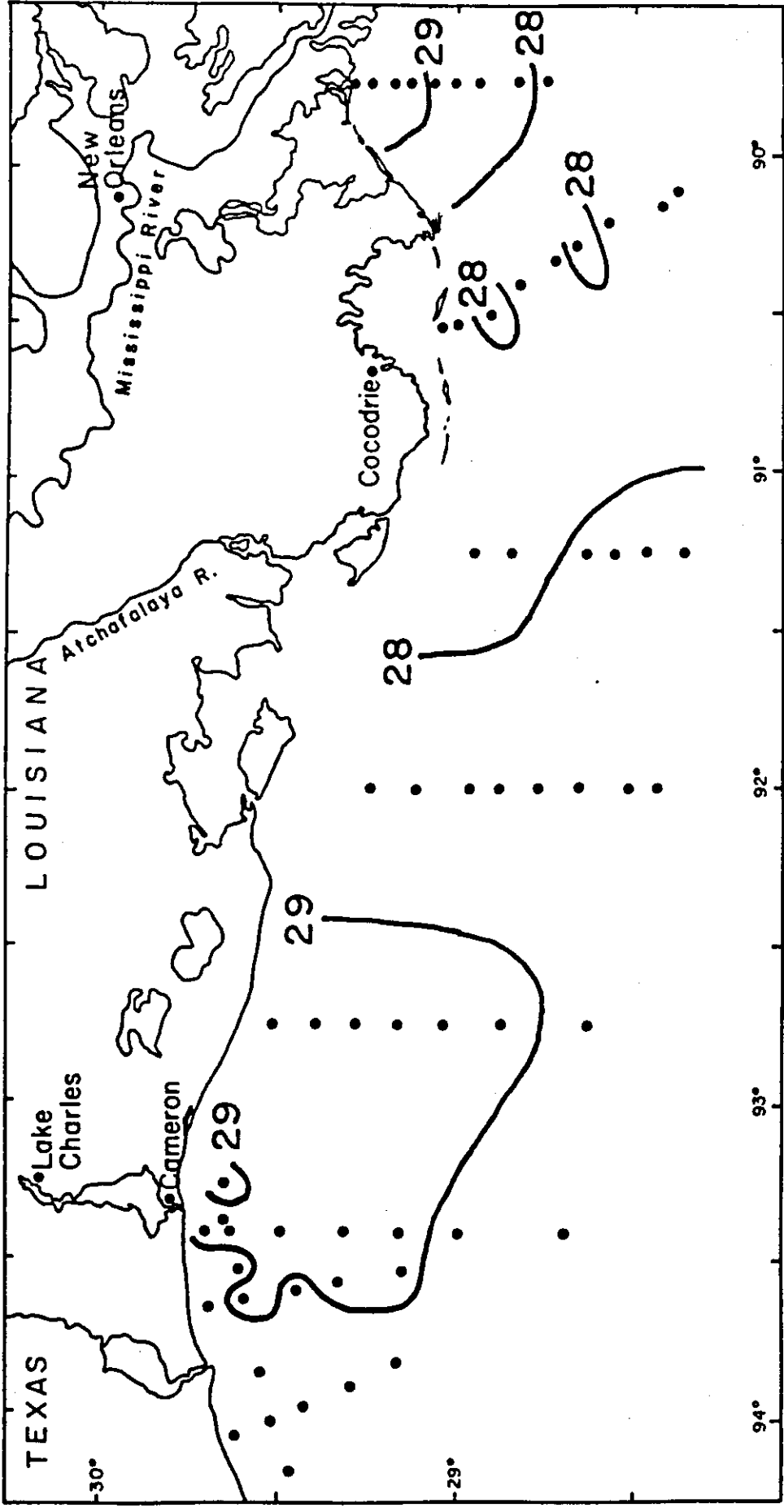
# DISSOLVED OXYGEN - BOTTOM (mg/l)

7/15-20/85



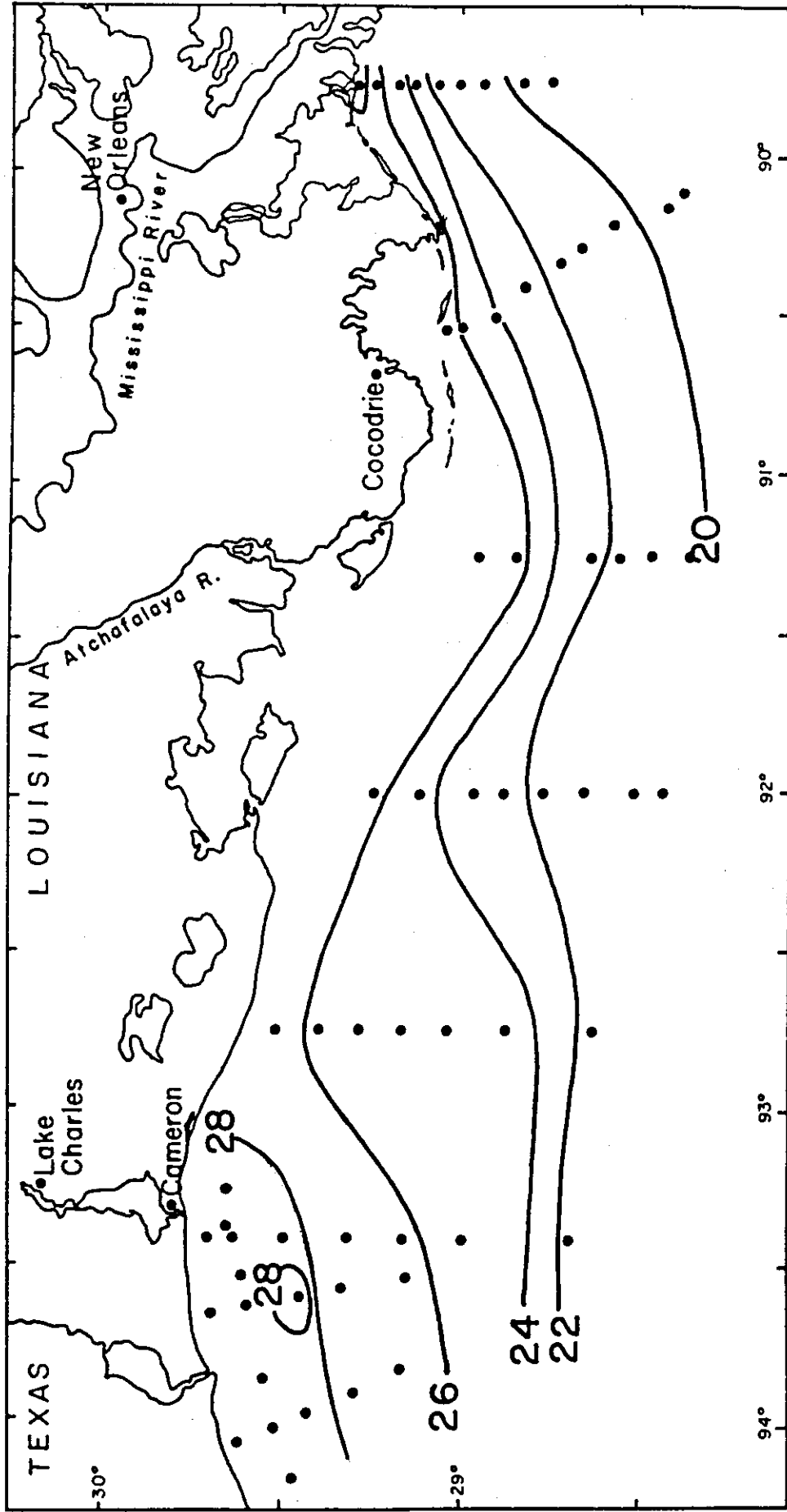
# TEMPERATURE - SURFACE (°C)

7/15-20/85



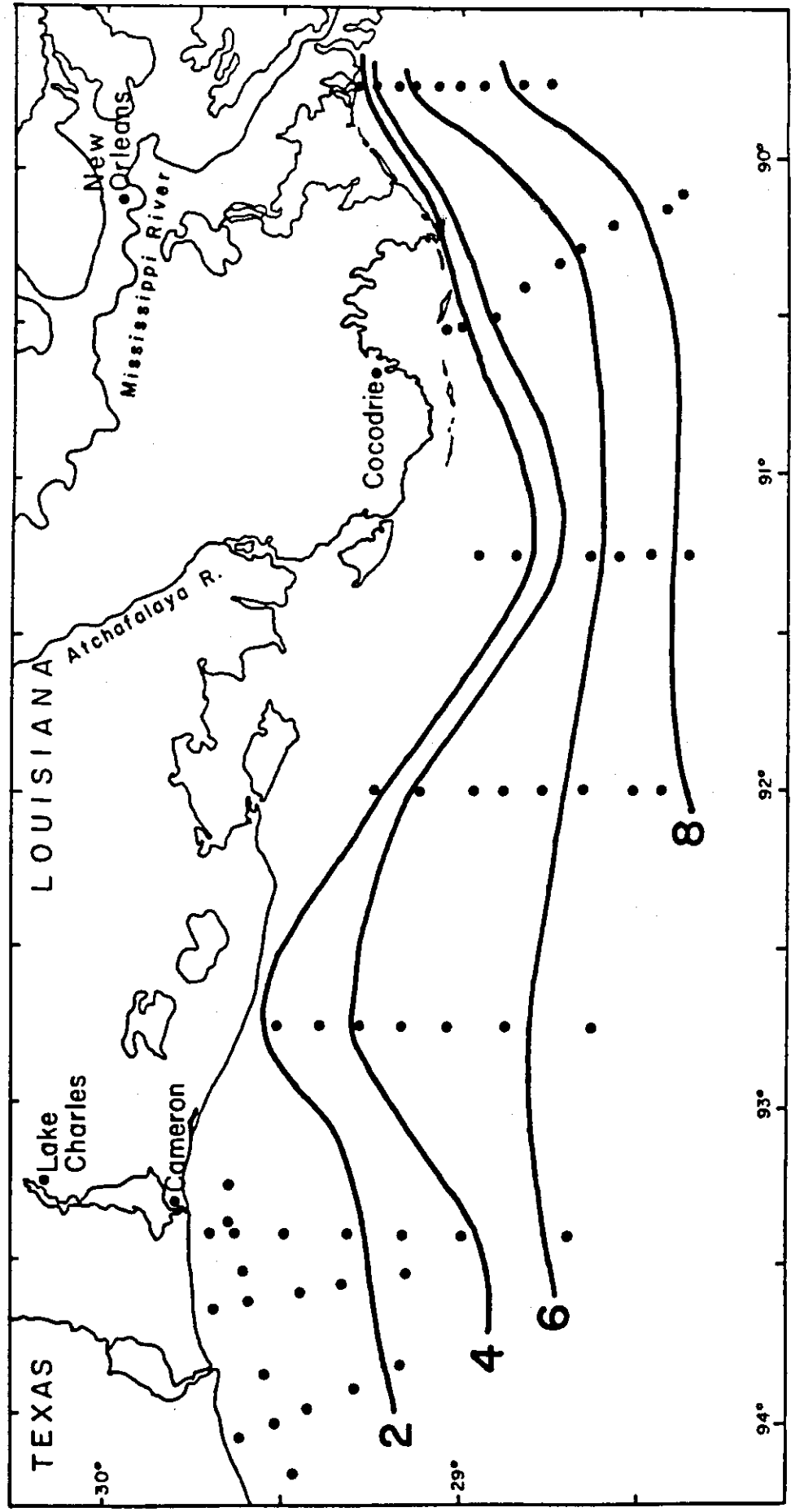
# TEMPERATURE - BOTTOM (°C)

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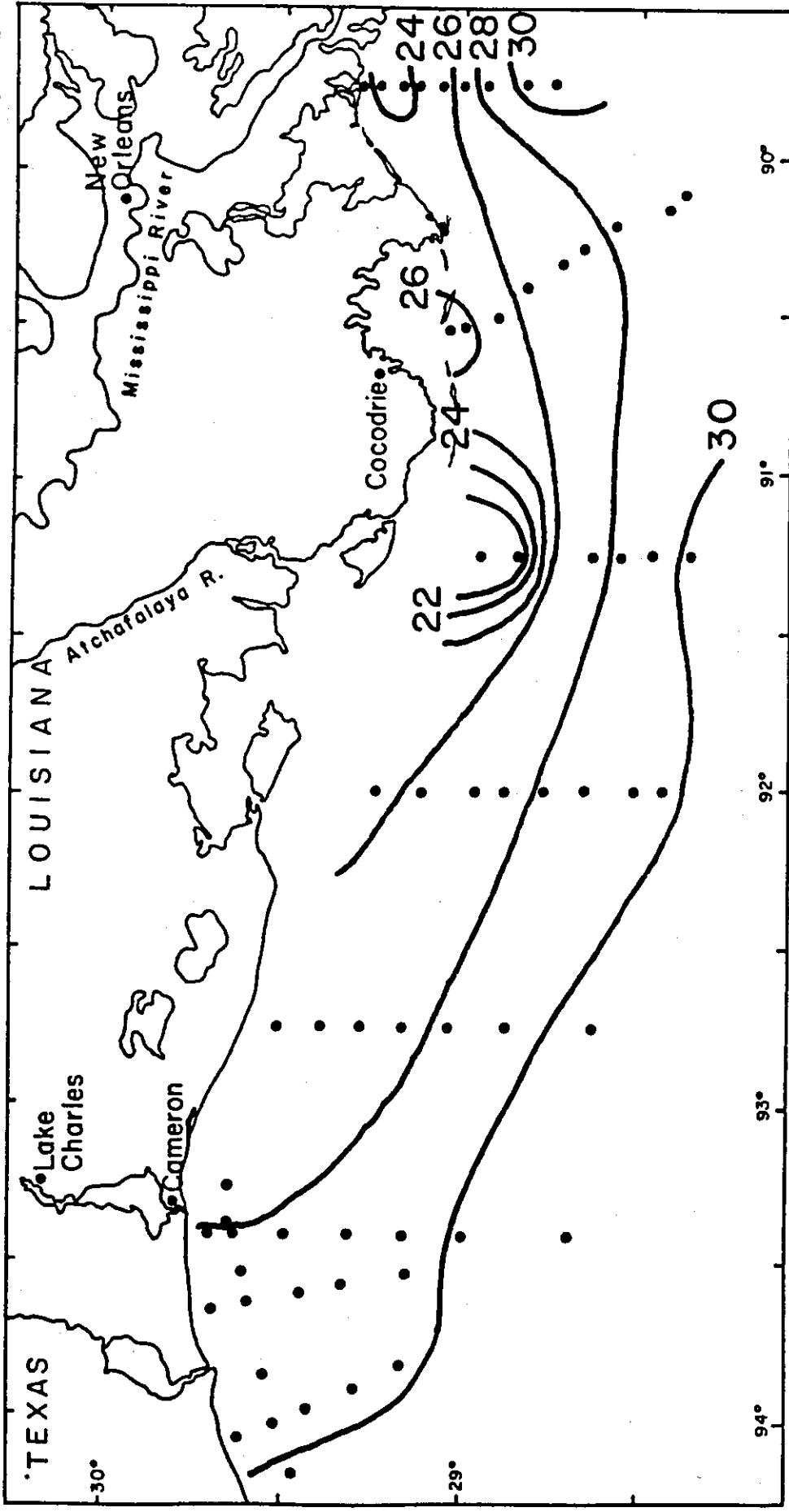
# Δ°C SURFACE - BOTTOM

7/15-20/85



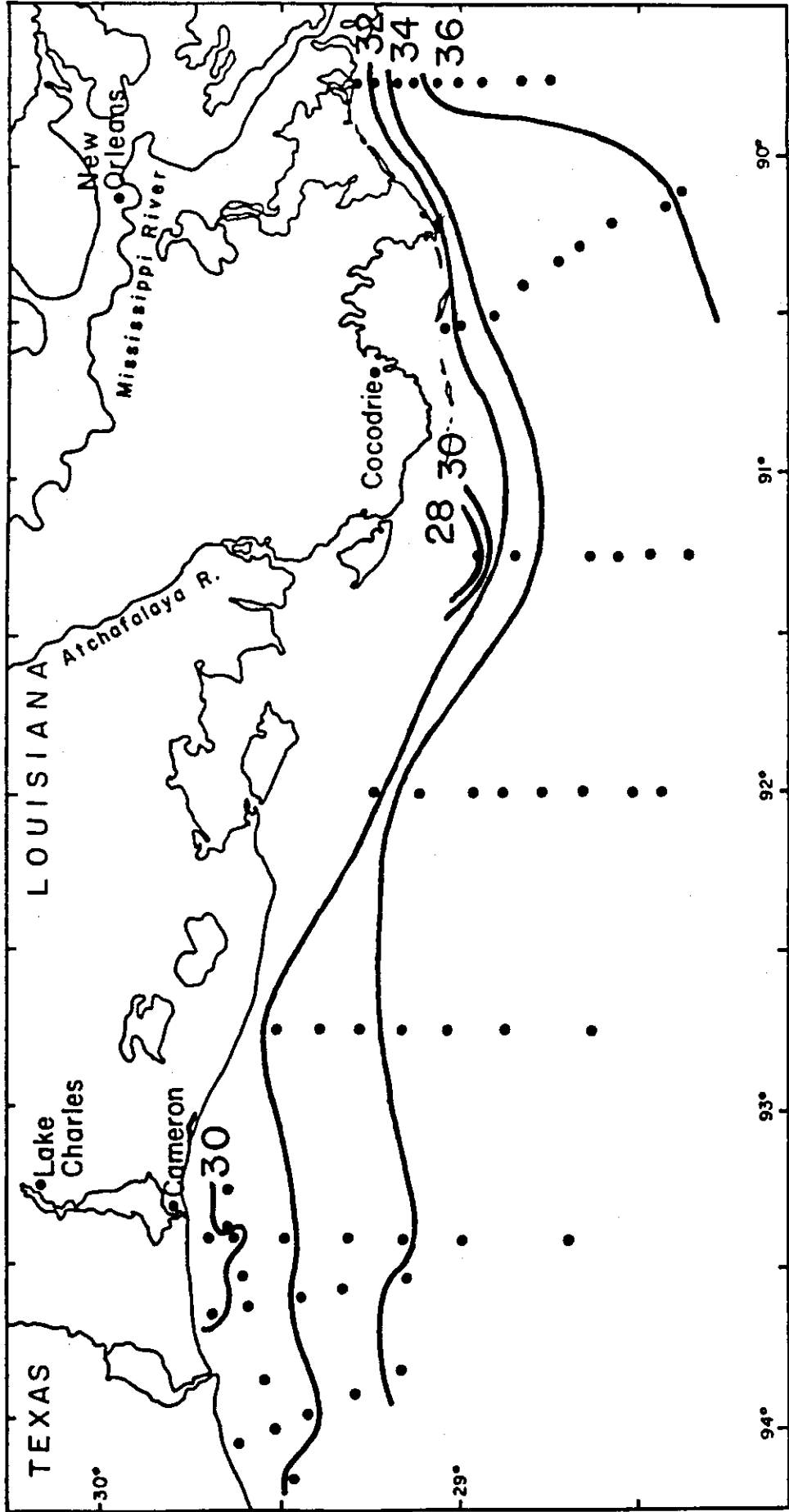
# SALINITY - SURFACE (‰)

7/15-20/85



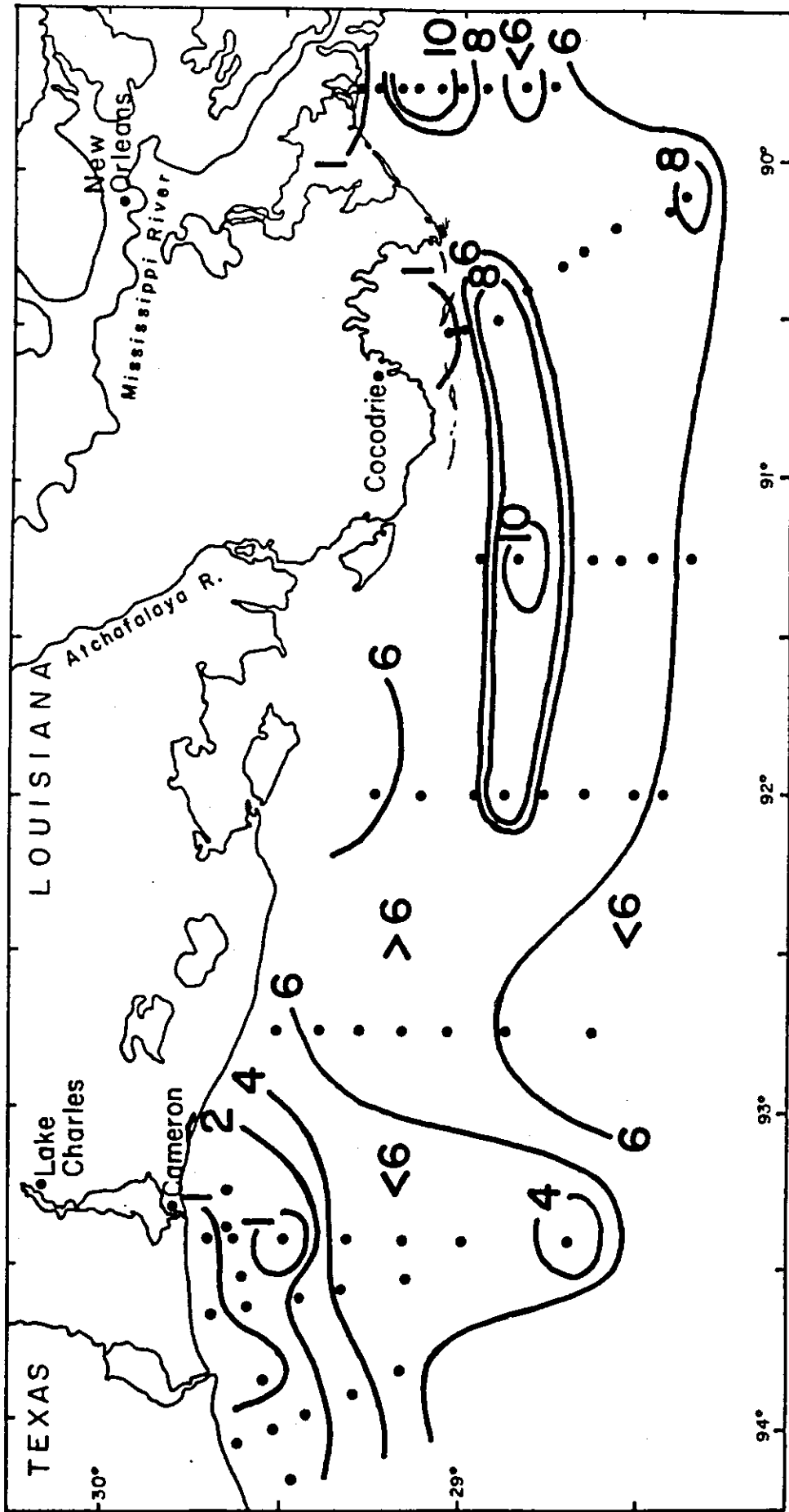
SALINITY - BOTTOM (‰)

7/15-20/85



# Δ SALINITY (‰) SURFACE-BOTTOM

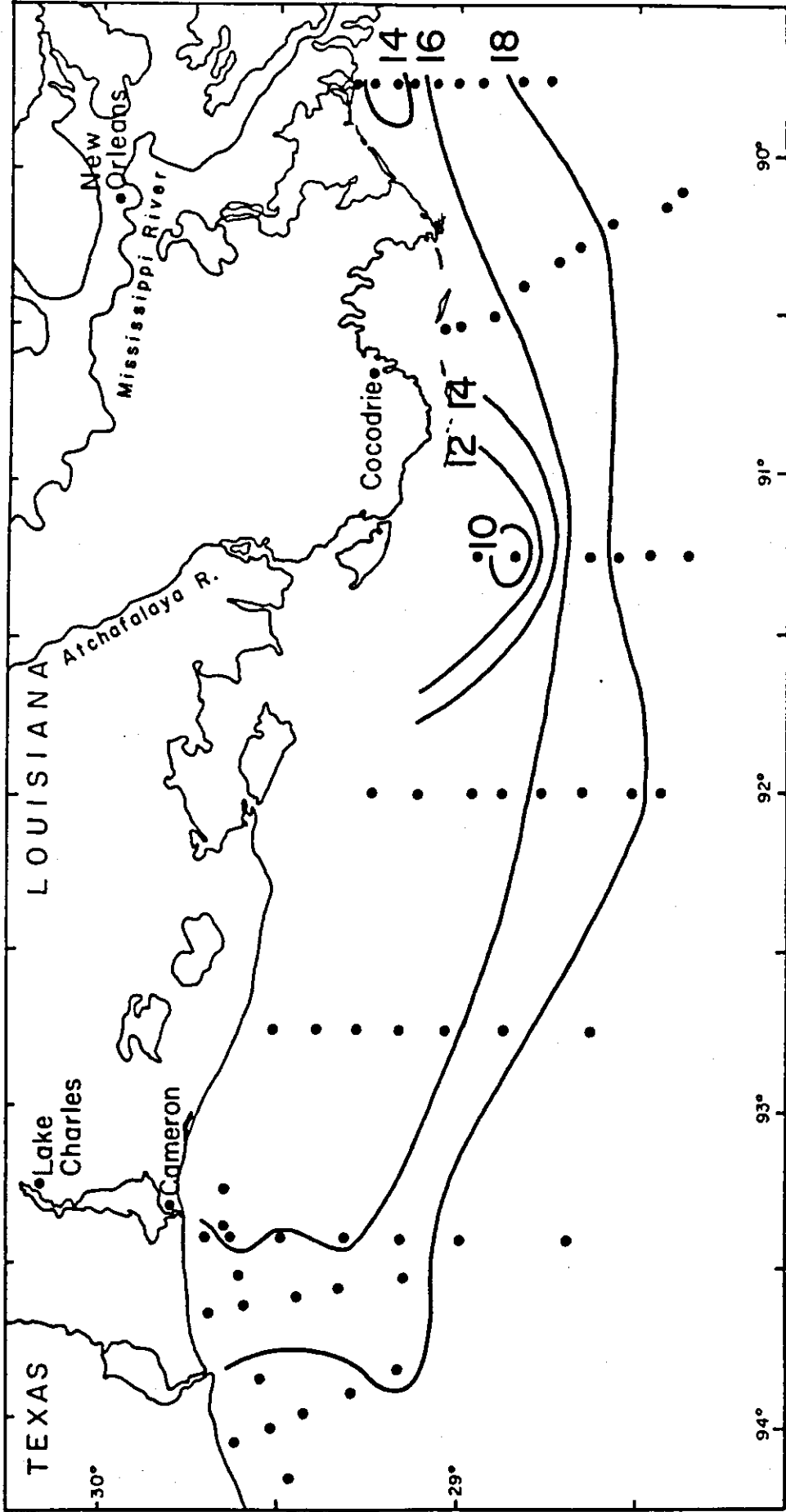
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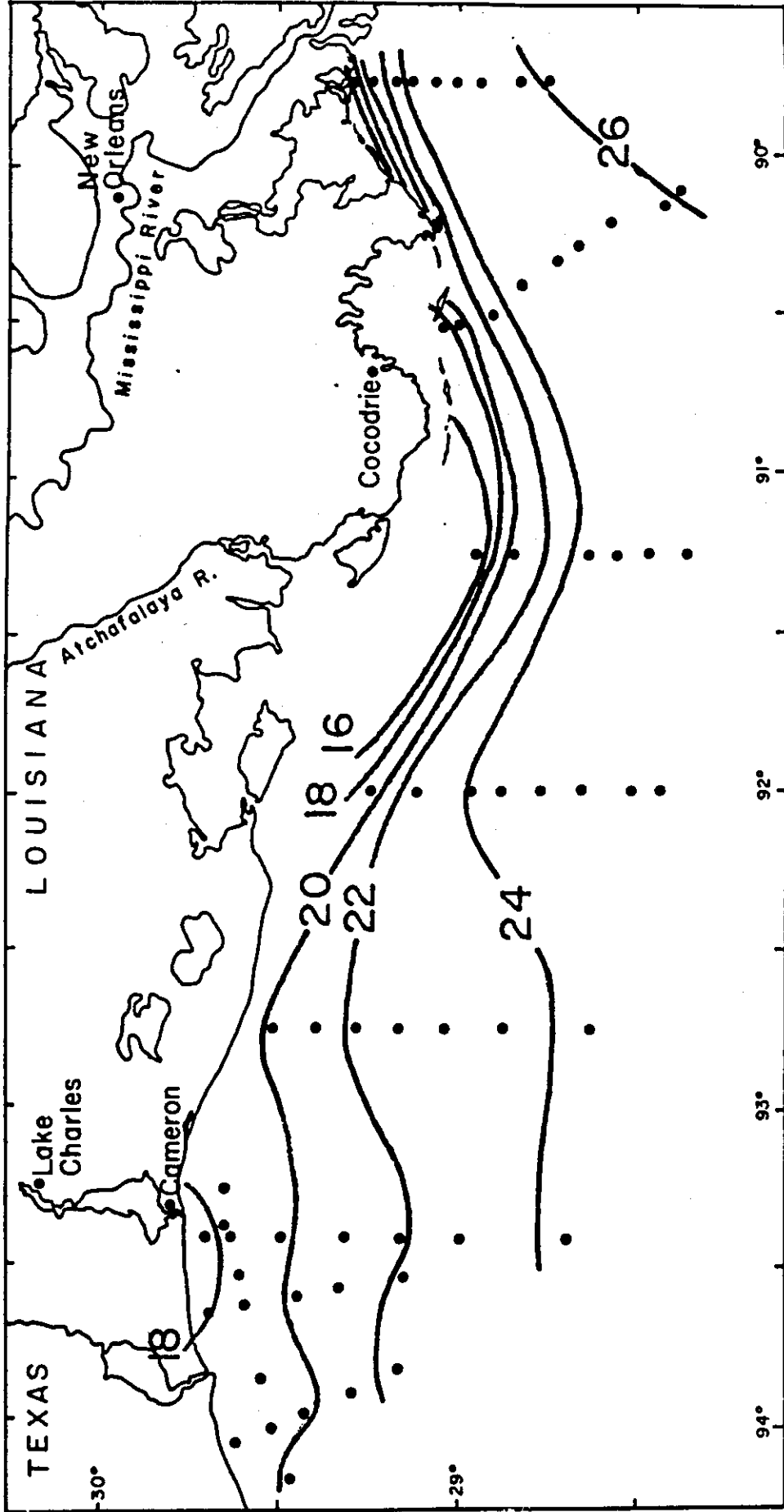
# SIGMA-t - SURFACE

7/15-20/85



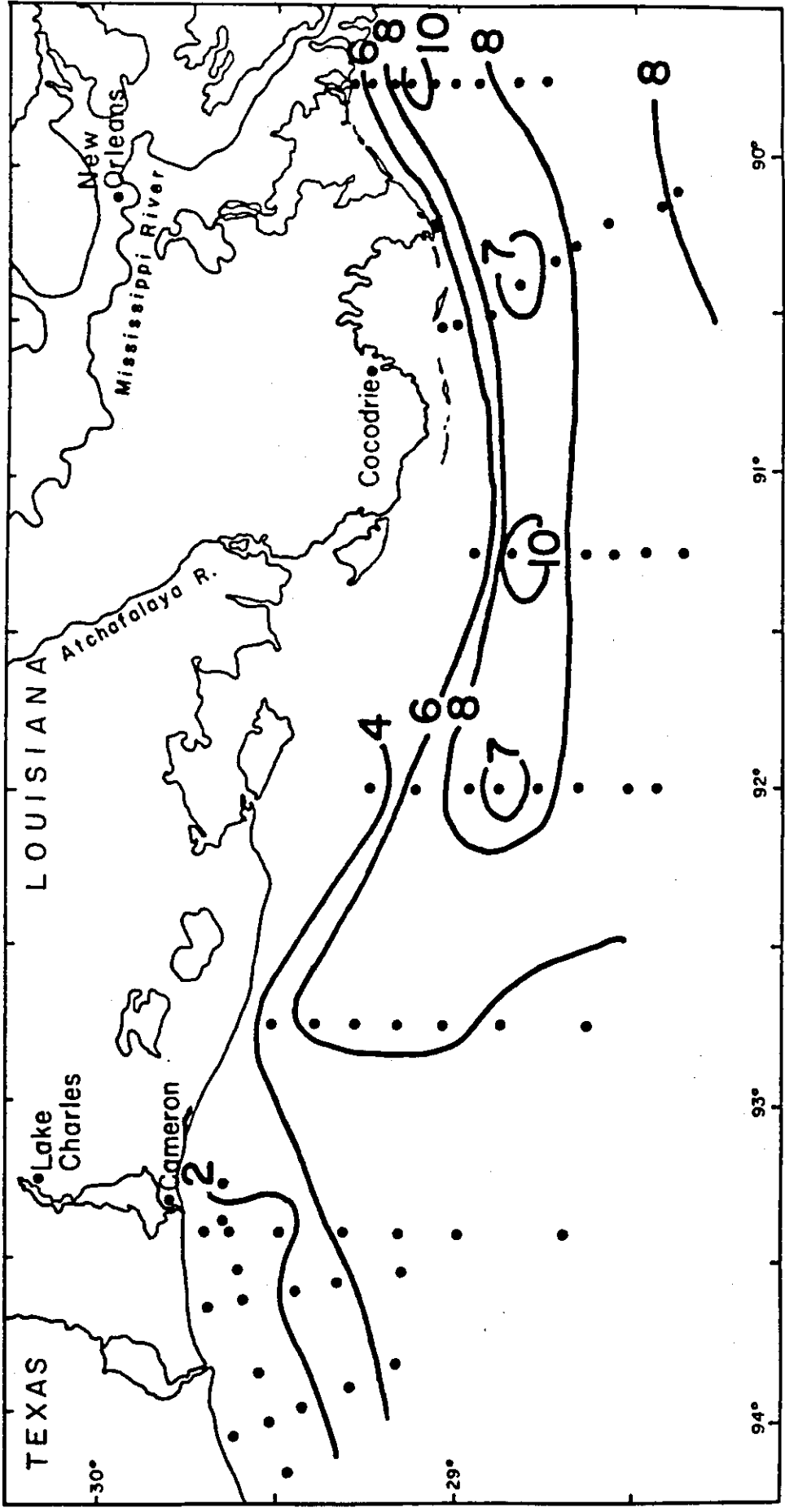
SIGMA - t - BOTTOM

7/15-20/85



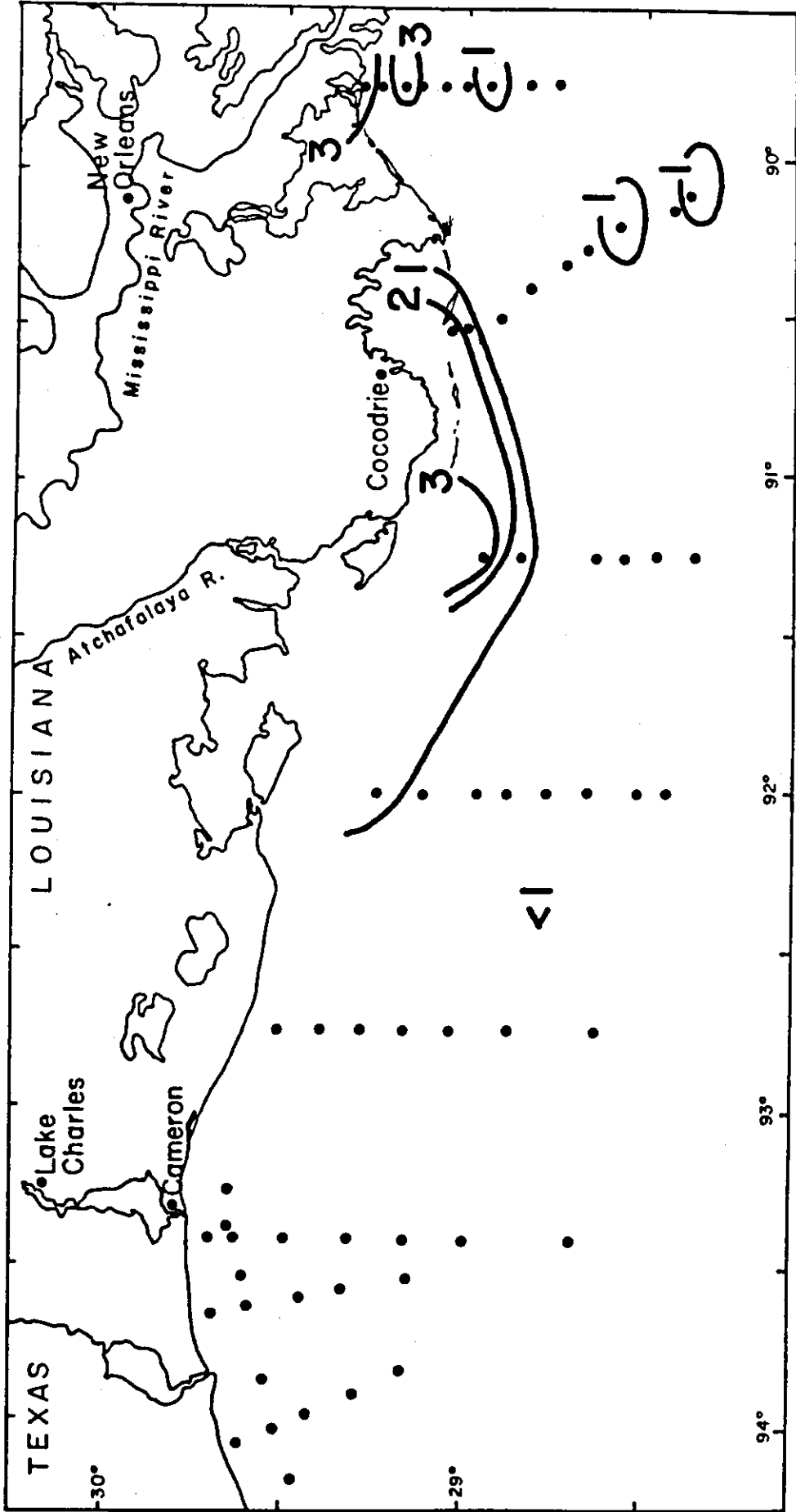
# Δ SIGMA - t SURFACE - BOTTOM

7/15-20/85



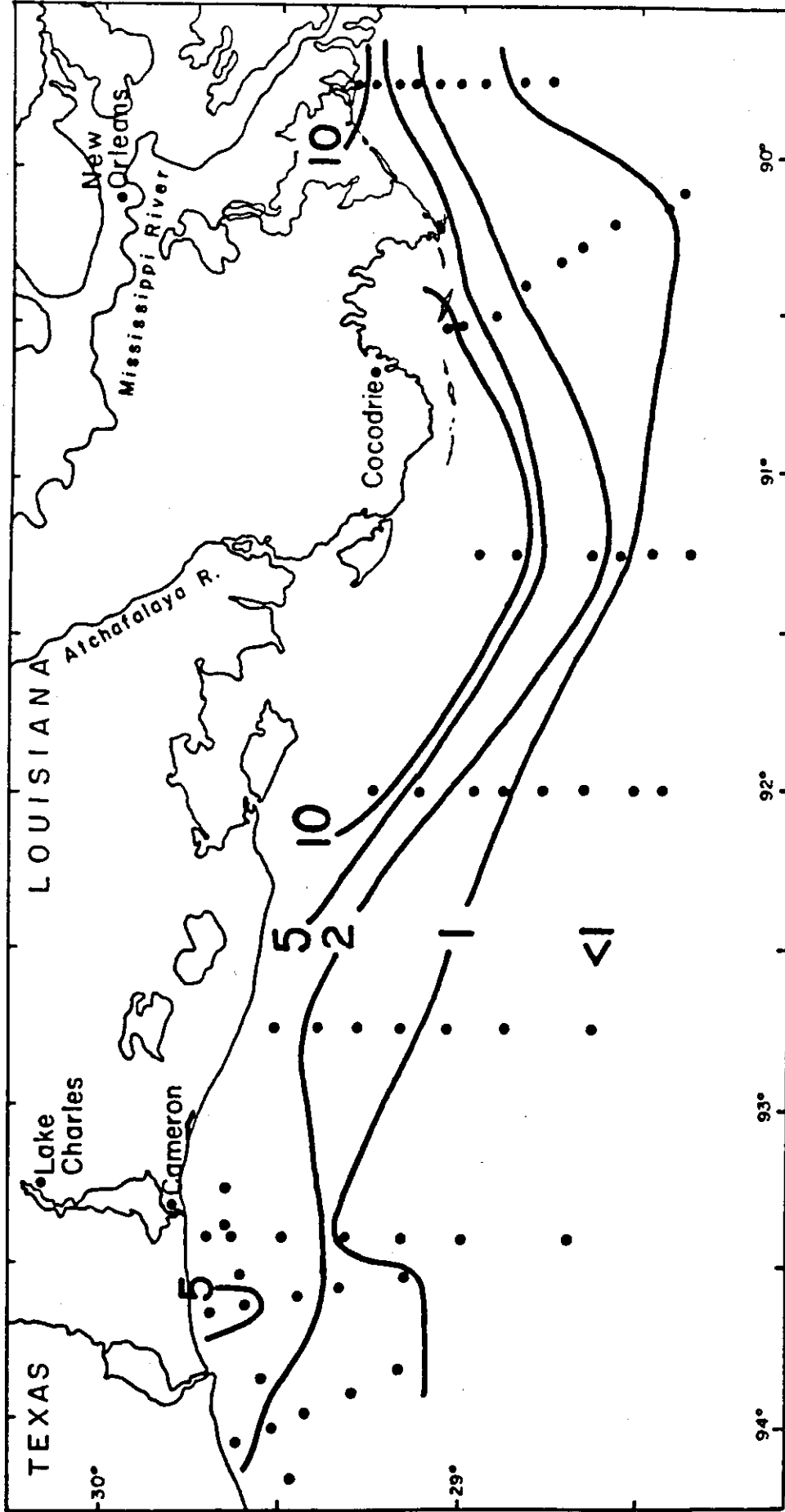
NITRATE - SURFACE ( $\mu\text{g}$  at  $\text{NO}_3\text{-N}/\text{l}$ )

7/15-20/85



# TOTAL PIGMENTS - SURFACE ( $\mu\text{g/l}$ )

7/15-20/85



CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 01                      Latitude: 29:17.4 N    Hydrolab cast time: 17:01  
Date: 07/15/85                  Longitude: 89:45.0 W    Secchi disk depth (m): 01.0

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
000.0	29.70	25.6	45.0	14.80	06.29	96.1
001.0	29.68	25.6	45.1	14.86	06.28	95.9
002.0	29.72	25.5	44.9	14.74	06.32	96.5
003.0	29.66	25.6	45.0	14.81	06.30	96.2
004.0	29.64	25.6	44.9	14.82	06.00	91.6
004.6	29.60	25.7	45.1	14.94	05.30	80.9

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	12.29	2.14	14.43	2.0
002.0	11.43	2.26	13.69	2.0
004.0	12.55	2.10	14.65	2.0
004.6	7.83	2.64	10.47	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)
000.0	03.90	03.30	00.50	00.60	12.70
002.0	04.90	03.90	00.60	00.60	12.20
004.0	01.20	01.60	00.50	01.10	11.00
004.6	05.90	03.80	01.10	00.60	11.40

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 02                      Latitude: 29:14.4 N      Hydrolab cast time: 16:29  
Date: 07/15/85                  Longitude: 89:45.0 W      Secchi disk depth (m): 02.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	29.65	22.8	40.8	12.80	07.41	111.4
002.0	29.57	23.6	41.8	13.35	07.29	109.8
004.1	28.50	26.8	45.9	16.13	05.92	89.2
006.1	27.84	28.2	47.4	17.41	03.20	48.0
008.0	27.32	29.5	48.7	18.48	00.08	1.2
010.0	26.41	32.2	51.6	20.78	00.08	1.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	4.72	0.67	5.39	2.0
006.1	5.32	0.78	6.10	2.0
010.0	5.59	2.09	7.68	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)
000.0	01.10	00.80	00.10	00.80	08.90
006.1	01.10	06.60	01.50	##.##	04.90
010.0	12.90	12.20	03.60	04.10	41.30

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 03                      Latitude: 29:10.7 N      Hydrolab cast time: 19:27  
Date: 07/15/85                  Longitude: 89:45.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

```
=====
Depth  Temperature  Salinity  Conductivity  Dissolved  Percent
(m)    (degrees C)    (ppt)    (mmho/cm)    Sigma-t    Oxygen    Oxygen
                                           (mg/L)    Saturation
=====
000.0    29.29         23.8     42.0         13.65     07.47     112.2
002.0    29.31         23.8     42.0         13.64     07.49     112.5
004.0    29.47         26.3     45.9         15.41     07.42     113.3
006.0    28.44         27.5     46.9         16.69     06.37     96.2
008.0    27.58         29.0     48.2         18.03     05.84     87.6
010.0    27.27         30.8     50.5         19.49     03.61     54.4
012.0    26.20         33.0     52.6         21.51     00.48     7.2
014.4    24.30         35.0     53.2         23.54     00.14     2.0
=====
```

CHLOROPHYLL DATA

```
=====
Depth  Chlorophyll  Phaeopigments  Total  Acid
(m)    (ug/L)      (ug/L)         Pigments  Ratio
                                           (ug/L)    (Fo/Fa)
=====
000.0    3.60         0.80           4.40     2.0
006.0    4.09         0.90           4.99     2.0
010.0    12.10        2.37           14.47    2.0
014.4    10.17        2.49           12.66    2.0
=====
```

NUTRIENT DATA

```
=====
Depth  Ammonia  Nitrate  Nitrite  Phosphate  Silicate
(m)    (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L)
=====
000.0    00.60     03.50     00.10     03.80     07.90
006.0    10.00     00.20     00.10     00.30     02.40
010.0    04.40     05.10     00.80     00.60     03.00
014.4    04.40     12.50     01.40     02.70     23.80
=====
```



CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 04                      Latitude: 29:08.0 N      Hydrolab cast time: 20:13  
Date: 07/15/85                  Longitude: 89:45.0 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
000.0	29.08	25.1	43.8	14.67	07.04	106.1
002.0	29.08	25.0	43.7	14.61	07.02	105.8
004.0	29.03	26.6	46.2	15.92	07.30	111.0
006.0	28.19	27.3	46.3	16.60	06.41	96.3
008.0	27.64	29.6	49.2	18.50	05.88	88.6
010.0	27.20	32.1	52.3	20.50	04.73	71.7
012.0	26.29	33.0	52.7	21.49	05.03	75.4
014.0	25.24	34.3	53.4	22.78	01.14	16.9
016.0	23.77	35.3	53.1	23.96	00.06	0.9
017.9	22.82	35.6	52.4	24.43	00.08	1.1
020.0	22.45	35.8	52.3	24.69	00.18	2.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.41	1.10	2.51	1.7
004.0	3.25	1.35	4.60	1.8
010.0	1.52	0.49	2.01	1.9
017.9	2.12	0.39	2.51	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)
000.0	03.80	00.20	00.10	00.30	07.30
004.0	08.00	01.20	00.10	00.30	02.00
010.0	02.60	01.50	00.40	00.30	06.10
017.9	09.10	09.30	01.20	03.20	48.50

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 05                      Latitude: 29:04.2 N      Hydrolab cast time: 21:28  
Date: 07/15/85                  Longitude: 89:45.0 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
000.0	28.72	25.8	44.6	15.31	06.75	101.5
003.0	28.84	26.0	44.9	15.38	06.71	101.2
005.8	27.57	29.2	48.5	18.19	06.05	90.8
009.0	27.37	30.9	50.8	19.57	06.20	93.7
012.0	27.05	31.7	51.6	20.27	06.23	94.0
014.8	26.41	33.0	52.7	21.40	05.26	79.0
018.0	23.88	35.2	53.1	23.87	01.08	15.7
020.8	22.35	36.0	52.5	24.88	01.30	18.4
023.8	21.69	36.0	51.7	25.05	01.24	17.4
027.2	21.28	36.1	51.5	25.26	00.74	10.3
030.3	21.25	36.1	51.4	25.27	00.74	10.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.59	0.30	0.89	1.8
005.8	0.99	0.33	1.32	1.9
012.0	0.71	0.33	1.04	1.8
020.8	1.10	0.46	1.56	1.9
027.2	0.53	1.19	1.72	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)
000.0	00.60	00.20	00.10	00.20	01.00
005.8	05.90	00.50	00.10	00.10	00.80
012.0	15.40	02.60	00.10	00.10	02.10
020.8	03.00	11.20	00.10	01.80	19.30
027.2	05.10	20.20	00.10	01.90	38.70

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 06                      Latitude: 29:00.5 N      Hydrolab cast time: 22:30  
Date: 07/15/85                  Longitude: 89:45.0 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
000.0	28.66	27.7	47.3	16.73	06.45	97.9
004.3	28.69	28.1	48.0	17.05	06.37	97.0
008.1	28.25	29.9	50.2	18.54	06.29	96.0
011.6	27.72	31.5	51.9	19.86	06.14	93.6
015.8	25.75	34.0	53.4	22.36	05.23	78.1
020.0	22.55	35.6	52.2	24.55	00.64	9.1
023.8	21.88	35.7	51.7	24.83	00.50	7.0
027.9	21.44	35.9	51.4	25.05	01.31	18.2
031.8	21.30	36.2	51.6	25.31	00.55	7.6
035.6	20.97	36.2	51.3	25.45	00.62	8.6
038.2	20.66	36.1	50.9	25.46	00.65	8.9
040.4	20.67	36.1	50.9	25.46	00.63	8.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.84	0.25	1.09	1.9
008.1	0.62	0.15	0.77	2.0
011.6	0.80	0.53	1.33	1.7
023.8	0.51	0.38	0.89	1.7
035.6	0.21	0.74	0.95	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)
000.0	07.80	00.40	00.10	00.40	01.00
008.1	00.90	00.20	00.10	00.10	00.90
011.6	01.10	00.10	00.10	00.20	04.40
023.8	01.00	13.60	00.10	01.30	25.00
035.6	02.50	18.60	00.10	02.10	37.90

CRUISE DATA - TRANSECT A  
(off Baratavia Bay)

Station: 07                      Latitude: 28:56.5 N      Hydrolab cast time: 23:32  
Date: 07/15/85                  Longitude: 89:45.0 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
000.0	28.13	28.6	48.1	17.54	06.42	97.0
004.0	28.06	28.6	48.1	17.61	06.43	97.1
008.0	28.00	31.0	51.6	19.44	06.36	97.2
012.1	28.31	33.9	56.0	21.47	06.16	96.2
016.0	27.50	35.5	57.4	22.95	06.20	96.4
020.5	26.36	36.0	56.8	23.66	06.25	95.4
023.8	23.97	35.7	53.8	24.19	05.85	85.4
028.2	22.53	35.5	52.1	24.50	03.80	53.9
032.0	21.81	36.3	52.2	25.24	01.77	24.9
035.8	21.04	36.2	51.4	25.43	01.54	21.3
040.4	20.60	36.1	50.8	25.48	02.40	33.0
044.2	20.52	35.8	50.4	25.27	02.57	35.2
048.8	20.24	36.1	50.4	25.56	01.16	15.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.30	0.19	1.49	2.0
016.0	0.37	0.15	0.52	1.9
028.2	0.85	0.61	1.46	1.7
044.2	0.09	0.21	0.30	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)
000.0	01.60	01.10	00.10	00.20	01.00
016.0	00.40	00.10	00.10	00.70	01.10
028.2	02.40	06.00	00.10	00.60	13.80
044.2	01.60	16.60	00.10	01.70	21.80

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 08                      Latitude: 28:50.0 N      Hydrolab cast time: 01:10  
Date: 07/16/85                  Longitude: 89:45.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.02	30.4	50.7	19.00	06.20	94.5
004.0	28.00	30.7	51.2	19.22	06.23	95.1
008.1	27.52	34.6	56.0	22.21	06.21	96.0
012.2	27.94	35.7	58.1	22.93	06.07	95.2
016.0	27.78	36.0	58.4	23.26	06.08	95.2
020.0	27.65	36.2	58.8	23.47	06.12	95.8
024.0	26.45	36.3	57.3	23.87	06.24	95.6
027.9	25.28	36.5	56.3	24.41	06.32	94.9
032.2	24.17	36.3	54.8	24.59	06.49	95.4
036.1	23.03	36.2	53.4	24.83	06.50	93.4
040.0	22.25	36.2	52.6	25.08	06.23	88.3
044.0	21.68	36.0	51.8	25.11	05.78	81.0
047.9	21.22	36.0	51.3	25.22	05.98	83.0
052.0	20.52	36.1	50.7	25.50	03.74	51.3
056.0	20.22	36.2	50.5	25.63	03.39	46.2
060.3	20.02	35.9	49.9	25.45	03.55	48.1
065.5	19.77	36.2	50.1	25.79	02.89	39.1

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	0.36	0.10	0.46	2.0
044.0	0.55	0.31	0.86	1.8
060.3	0.34	0.23	0.57	1.7

NUTRIENT DATA

=====

Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	04.60	00.30	00.10	01.20	00.50
044.0	05.00	00.40	00.10	08.40	03.70
060.3	00.50	11.00	00.10	00.80	08.30

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 09                      Latitude: 28:45.0 N      Hydrolab cast time: 03:10  
Date: 07/16/85                  Longitude: 89:45.0 W      Secchi disk depth (m): ##. #

HYDROGRAPHIC DATA

```
=====
Depth  Temperature  Salinity  Conductivity  Dissolved  Percent
(m)    (degrees C)     (ppt)     (mmho/cm)   Sigma-t   Oxygen   Oxygen
                                           (mg/L)   Saturation
=====
000.0    27.72           30.1      50.0         18.86     06.21    94.0
005.0    27.86           30.7      51.0         19.26     06.23    94.8
010.0    28.02           35.4      57.8         22.68     06.17    96.7
015.0    27.80           36.0      58.5         23.26     06.08    95.3
020.0    27.68           36.0      58.3         23.29     06.05    94.6
024.9    27.37           36.2      58.2         23.49     06.10    94.9
030.0    25.23           38.4      56.1         24.31     06.23    93.4
034.9    23.69           35.3      54.3         24.72     06.23    90.7
039.9    22.95           38.2      53.4         24.90     06.12    87.9
045.0    22.48           36.4      53.1         25.14     06.15    87.6
049.9    22.03           38.3      52.6         25.25     05.64    79.7
055.0    21.67           36.3      52.2         25.33     05.57    78.1
060.1    20.96           36.1      51.2         25.39     05.92    81.8
065.0    20.52           36.0      50.5         25.38     05.72    78.3
070.2    19.85           36.2      50.2         25.77     05.07    68.7
075.0    19.48           35.9      49.4         25.63     03.71    49.8
080.0    19.77           35.9      49.6         25.50     02.78    37.5
083.9    19.23           36.2      49.5         25.91     02.77    37.1
=====
```

CHLOROPHYLL DATA

```
=====
Depth  Chlorophyll  Phaeopigments  Total  Acid
(m)    (ug/L)       (ug/L)         Pigments  Ratio
                                           (ug/L)   (Fo/Fa)
=====
000.0    0.35         0.09           0.44     1.9
020.0    0.21         0.09           0.30     1.8
045.0    0.32         0.20           0.52     1.7
065.0    0.54         0.38           0.92     1.7
080.0    0.71         7.01           7.72     1.1
=====
```

NUTRIENT DATA

```
=====
Depth  Ammonia  Nitrate  Nitrite  Phosphate  Silicate
(m)    (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L)
=====
000.0    03.90     00.40     00.10     00.40     02.50
020.0    00.60     01.00     00.10     06.70     01.00
045.0    04.60     00.80     00.10     01.60     01.20
065.0    00.60     03.70     00.10     10.00     02.20
080.0    03.30     14.50     00.10     01.80     15.00
=====
```

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

Station: 01                      Latitude: 29:03.4 N      Hydrolab cast time: 23:45  
Date: 07/16/85                  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
000.0	27.19	27.8	46.1	17.27	05.43	80.3
001.1	27.24	28.0	46.5	17.42	05.80	86.0
001.8	27.28	28.2	46.7	17.51	04.84	71.8
002.6	27.24	27.8	46.2	17.25	05.40	79.9

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
001.1	8.09	1.90	9.99	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)
001.1	04.70	02.10	00.40	00.40	09.90

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

Station: 03                      Latitude: 28:59.4 N      Hydrolab cast time: 21:40  
Date: 07/16/85                  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
000.0	27.73	26.1	44.2	15.87	06.47	95.7
002.0	27.73	26.1	44.2	15.87	06.48	95.9
004.1	27.89	26.8	45.3	16.31	06.35	94.6
006.1	27.91	29.3	49.0	18.20	05.88	88.9
007.8	27.25	30.4	50.0	19.22	05.30	79.7
010.0	##.##	##.##	##.##	##.##	##.##	##.##
010.5	25.78	33.2	52.3	21.74	00.13	1.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	6.22	0.92	7.14	2.0
010.0	5.32	8.66	13.98	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)
000.0	01.40	00.10	00.10	08.90	06.50
010.0	12.40	02.40	00.70	06.10	30.80



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

Station: 05                      Latitude: 28:54.9 N      Hydrolab cast time: 19:40  
Date: 07/16/85                  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
000.0	28.06	25.9	44.2	15.61	06.53	97.1
002.0	28.06	25.9	44.2	15.61	06.54	97.2
004.1	28.76	27.6	47.2	16.59	06.35	96.5
006.0	28.27	29.6	49.8	18.32	05.95	90.7
008.2	27.73	31.1	51.4	19.58	06.06	92.2
010.0	27.34	32.1	52.5	20.46	05.99	91.0
012.1	26.20	33.2	52.9	21.68	03.80	57.0
014.1	24.74	35.0	53.8	23.48	00.12	1.8
015.4	23.94	35.4	53.4	23.97	00.19	2.8

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	2.62	0.42	3.04	2.0
014.1	1.72	2.02	3.74	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)
000.0	01.70	00.30	00.10	00.10	02.90
008.2	01.90	00.10	00.10	00.30	01.00
014.1	01.10	06.90	02.00	01.40	33.80

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

Station: 07                      Latitude: 28:49.9 N      Hydrolab cast time: 18:25  
Date: 07/16/85                  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
000.0	27.82	27.7	46.6	17.03	06.22	93.0
002.1	27.85	27.7	46.6	17.02	06.21	92.9
004.0	27.94	27.9	46.9	17.11	06.20	93.0
006.0	27.46	30.0	49.5	18.83	05.58	84.0
008.1	27.72	31.2	51.6	19.69	06.08	92.6
010.2	27.67	31.6	52.1	19.98	06.14	93.6
012.1	27.49	32.0	52.5	20.37	06.08	92.6
013.8	25.75	34.0	53.4	22.36	04.35	64.9
016.0	24.89	35.1	54.0	23.44	01.95	28.8
018.0	23.99	35.5	53.6	24.02	01.58	23.0
020.5	23.45	35.5	53.0	24.21	00.44	6.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.86	0.32	1.18	1.9
020.5	2.40	1.58	3.98	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)
000.0	01.80	00.30	00.10	00.20	01.00
010.2	11.10	00.30	00.10	03.20	01.00
020.5	02.90	11.70	00.80	01.50	33.50

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

Station: 8A                      Latitude: 28:44.0 N      Hydrolab cast time: 16:40  
Date: 07/16/85                  Longitude: 90:19.5 W      Secchi disk depth (m): 07.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	27.74	26.7	45.1	16.30	06.35	94.3
002.3	27.77	26.7	45.1	16.29	06.36	94.5
004.2	28.87	28.3	48.4	17.10	06.21	94.9
006.2	29.08	29.5	50.4	17.97	06.09	94.1
008.1	28.52	30.8	51.8	19.13	06.20	95.6
010.1	27.75	32.1	52.9	20.35	06.21	95.1
012.2	27.42	32.3	52.8	20.55	06.22	94.8
013.8	27.30	32.3	52.7	20.64	06.22	94.6
015.8	27.18	32.5	52.8	20.79	06.07	92.2
017.7	23.70	35.4	53.1	24.03	01.28	18.6
019.8	23.51	35.5	53.1	24.20	01.18	17.0
021.8	22.60	35.5	52.1	24.43	00.54	7.7
023.8	22.17	35.8	52.1	24.82	00.28	4.0
026.0	21.56	36.0	51.7	25.13	00.16	2.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.57	0.20	1.77	2.0
026.0	1.26	0.64	1.90	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)
000.0	03.90	00.40	00.10	00.10	01.90
026.0	01.90	16.00	00.30	01.70	38.00

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

Station: 9A                      Latitude: 28:40.5 N    Hydrolab cast time: 15:33  
Date: 07/16/85                  Longitude: 90:16.5 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
000.0	28.03	28.5	48.0	17.57	06.21	93.6
001.9	28.03	26.6	48.1	17.62	06.23	94.0
004.0	28.04	26.6	48.1	17.62	08.25	94.3
006.1	28.32	29.9	50.2	18.47	06.21	94.8
008.0	27.83	31.4	51.9	19.77	06.23	95.2
010.0	27.54	31.9	52.4	20.24	06.25	95.2
011.7	27.50	31.9	52.3	20.25	06.23	94.9
014.0	27.30	32.3	52.6	20.59	06.15	93.5
016.0	26.74	32.6	52.6	21.02	05.67	85.5
018.1	24.61	34.6	53.1	23.18	03.52	51.6
020.2	22.80	35.4	52.2	24.32	02.08	29.6
022.0	22.27	35.9	52.3	24.85	01.56	22.1
023.9	21.64	36.0	51.7	25.06	00.97	13.6
026.0	21.51	35.8	51.4	24.98	00.79	11.0
027.7	21.45	35.9	51.4	25.05	00.69	9.6
030.0	20.77	35.8	50.6	25.21	02.57	35.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.35	0.13	1.48	2.1
030.0	0.89	4.02	4.91	1.2

NUTRIENT DATA

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
000.0	08.70	00.30	00.10	00.10	00.90
010.0	02.80	00.90	00.10	00.20	00.70
026.0	05.90	15.60	00.20	01.20	33.00
030.0	05.00	11.40	00.30	00.90	20.50

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

Station: 11                      Latitude: 28:35.2 N      Hydrolab cast time: 14:02  
Date: 07/16/85                  Longitude: 90:12.2 W     Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	27.73	29.4	49.0	18.31	06.26	94.4
004.9	27.72	29.4	49.0	18.31	06.25	94.2
009.9	27.74	32.5	53.4	20.63	06.22	95.4
014.7	27.58	33.7	54.9	21.57	06.13	94.4
020.1	25.61	34.3	53.8	22.68	05.01	74.8
022.0	22.47	35.5	52.0	24.46	02.46	34.9
024.7	21.66	35.6	51.3	24.83	02.33	32.6
030.3	20.97	35.8	50.8	25.11	03.91	54.0
035.0	20.82	35.8	50.7	25.20	03.94	54.2
040.2	20.67	35.8	50.5	25.24	03.55	48.7
045.2	20.53	36.1	50.7	25.50	03.04	41.7
050.1	20.29	36.0	50.4	25.50	02.88	39.3
051.5	20.19	35.8	50.0	25.35	02.77	37.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	1.16	0.34	1.50	1.9
024.7	1.40	1.06	2.46	1.7
051.5	0.32	0.33	0.65	1.6

NUTRIENT DATA

Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	09.30	01.30	00.10	00.20	01.60
024.7	07.50	07.30	00.20	01.20	20.40
051.5	09.50	10.90	00.20	01.20	13.50

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

Station: 12                      Latitude: 28:25.5 N      Hydrolab cast time: 11:50  
Date: 07/16/85                  Longitude: 90:09.0 W      Secchi disk depth (m): 13.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	27.85	29.1	48.7	18.08	06.19	93.4
005.0	28.11	30.0	50.2	18.64	06.13	93.4
009.9	27.20	33.7	54.5	21.68	06.11	93.5
015.1	27.25	34.7	56.0	22.45	06.12	94.3
020.1	26.66	35.1	55.9	22.90	06.15	93.9
025.0	23.84	35.2	53.1	23.88	06.09	88.4
029.8	22.60	35.8	52.5	24.65	06.83	97.2
035.1	21.96	36.0	52.1	25.04	06.73	94.8
039.9	21.67	36.3	52.2	25.33	06.75	94.7
044.8	21.66	36.2	52.1	25.28	06.38	89.4
050.0	20.73	36.1	50.9	25.39	05.49	75.5
060.0	19.86	36.2	50.1	25.71	03.60	48.7
055.0	20.17	35.9	50.1	25.41	03.70	50.3
066.1	19.62	35.6	49.2	25.37	03.38	45.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.78	0.18	0.96	1.9
039.9	0.41	0.23	0.64	1.8
066.1	0.35	0.24	0.59	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)
000.0	00.80	00.50	00.10	00.10	02.30
039.9	05.30	00.30	00.10	00.10	01.50
066.1	01.70	13.50	00.10	00.80	14.00

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

Station: 13                      Latitude: 28:23.0 N      Hydrolab cast time: 09:15  
Date: 07/16/85                  Longitude: 90:06.0 W      Secchi disk depth (m): 05.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	27.62	27.0	45.4	16.55	06.23	92.4
005.0	28.44	29.4	49.6	16.05	06.10	93.1
010.2	27.46	32.3	52.9	20.60	06.04	92.1
015.0	27.20	33.8	54.6	21.73	08.06	92.7
019.9	27.08	34.4	55.4	22.27	06.09	93.4
025.0	25.78	35.0	54.8	23.09	06.20	93.1
029.9	22.81	35.7	52.6	24.54	06.44	92.0
035.0	21.69	35.6	51.6	24.93	06.04	84.5
039.9	21.53	36.0	51.7	25.14	05.73	80.0
045.0	21.15	36.0	51.2	25.23	06.48	89.8
050.3	20.78	36.1	50.9	25.38	05.36	73.8
056.0	20.06	35.8	49.8	25.38	03.60	48.8
059.9	19.82	35.6	49.3	25.27	03.43	46.2
065.0	19.52	35.9	49.4	25.62	02.93	39.4
070.0	19.33	35.9	49.2	25.66	03.10	41.5
075.0	19.34	36.1	49.4	25.77	03.12	41.8
080.8	19.28	36.6	50.0	26.18	03.11	41.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.58	0.25	0.83	1.9
035.0	0.47	0.22	0.69	1.8
075.0	0.19	0.18	0.37	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)
000.0	00.50	01.40	00.10	00.60	02.10
035.0	01.80	01.00	00.10	00.10	02.90
075.0	01.40	20.60	00.20	00.70	11.80

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 01                      Latitude: 28:58.0 N      Hydrolab cast time: 06:20  
Date: 07/17/85                  Longitude: 91:15.0 W    Secchi disk depth (m): ##.##

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
000.0	27.61	19.4	34.1	10.91	06.30	89.5
002.0	27.68	19.5	34.2	10.94	06.29	89.6
004.2	28.39	25.6	43.9	15.25	05.00	74.6
004.5	28.24	26.9	45.7	16.26	02.65	39.7

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	9.59	2.55	12.14	1.9
004.5	8.28	4.60	12.88	1.7

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)
000.0	13.40	03.60	00.20	00.90	21.90
004.5	09.30	02.90	00.40	00.70	19.70



CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 02                      Latitude: 28:51.5 N      Hydrolab cast time: 07:35  
Date: 07/17/85                  Longitude: 91:15.0 W      Secchi disk depth (m): ##.##

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
000.0	27.46	17.9	31.7	9.83	07.20	101.2
001.8	28.56	23.2	40.4	13.39	07.09	104.7
003.9	28.78	23.6	41.3	13.64	07.01	104.2
006.1	27.73	30.3	50.2	18.97	04.22	63.9
008.0	26.80	31.9	51.6	20.45	03.42	51.4

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	11.40	1.83	13.23	2.0
003.9	11.29	1.63	12.92	2.0
008.0	2.18	1.19	3.37	1.8

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)
000.0	03.80	01.30	00.10	00.30	20.70
003.9	02.10	00.40	00.10	00.30	10.70
008.0	16.10	02.80	00.50	01.00	12.10

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 03                      Latitude: 28:39.5 N      Hydrolab cast time: 09:50  
Date: 07/17/85                  Longitude: 91:15.0 W     Secchi disk depth (m): 07.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	28.30	27.9	47.3	17.00	06.19	93.5
002.1	28.30	27.8	47.1	16.89	06.20	93.5
004.1	28.35	27.9	47.3	16.98	06.22	94.0
006.0	28.52	28.3	48.0	17.21	06.21	94.3
008.1	28.84	30.3	51.3	18.59	06.15	95.0
009.9	28.57	30.8	51.7	19.06	06.09	93.9
012.0	27.83	31.7	52.4	19.99	06.12	93.6
014.0	27.78	32.4	53.2	20.51	06.19	95.0
016.0	27.57	33.7	54.9	21.57	06.60	101.6
018.2	27.03	35.2	56.4	22.85	06.20	95.4
020.0	23.81	34.8	52.5	23.55	01.91	27.6
021.6	22.66	35.3	52.0	24.30	00.13	1.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.83	0.18	1.01	2.0
009.9	0.65	0.15	0.80	1.9
021.6	5.14	1.38	6.52	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)
000.0	01.90	00.60	00.10	00.20	02.90
009.9	02.30	00.40	00.10	00.20	01.90
021.6	00.90	09.00	00.60	01.80	39.70

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 04                      Latitude: 28:35.0 N      Hydrolab cast time: 11:25  
Date: 07/17/85                  Longitude: 91:15.0 W      Secchi disk depth (m): 06.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	28.24	29.3	49.3	18.05	06.18	93.9
002.0	28.25	29.2	49.2	17.99	06.18	93.9
004.0	28.21	29.3	49.2	18.06	06.23	94.6
005.9	28.07	29.6	49.6	18.36	06.22	94.5
008.1	27.95	30.0	50.0	18.69	06.21	94.3
010.0	27.76	30.7	50.9	19.29	06.05	91.9
012.1	27.62	31.5	51.9	19.94	06.11	93.0
013.9	27.29	32.5	52.9	20.76	06.19	94.2
015.9	27.32	32.9	53.6	21.08	06.18	94.4
018.0	27.52	34.1	55.5	21.92	06.11	94.3
020.1	27.28	34.6	56.0	22.39	06.17	95.0
022.1	25.18	34.5	53.5	22.91	04.48	66.4
024.0	22.89	35.3	52.2	24.24	00.26	3.7
025.0	##.##	##.##	##.##	##.##	##.##	##.##
026.0	21.89	35.7	51.6	24.77	01.06	14.9
028.0	21.83	35.7	51.5	24.79	01.88	26.4
029.2	21.64	35.9	51.6	25.00	03.26	45.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.86	0.19	1.05	2.0
012.1	0.82	0.27	1.09	1.9
020.1	0.54	0.15	0.69	1.9
025.0	1.74	0.78	2.52	1.8
029.2	1.28	0.55	1.83	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)
000.0	00.70	01.50	00.10	00.20	01.00
012.1	16.00	00.80	00.10	00.20	01.00
020.1	03.20	00.20	00.10	00.20	01.60
025.0	01.20	13.40	00.10	01.20	26.90
029.2	02.30	09.70	00.70	00.80	25.40

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 05                      Latitude: 28:29.0 N      Hydrolab cast time: 12:08  
Date: 07/17/85                  Longitude: 91:15.0 W      Secchi disk depth (m): ##.##

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
000.0	28.30	29.7	50.0	18.36	06.19	94.4
002.5	28.32	29.7	50.0	18.36	06.17	94.2
005.0	28.25	29.7	49.9	18.38	06.19	94.4
008.2	27.57	30.9	50.9	19.46	06.15	93.2
011.0	27.50	32.3	52.8	20.53	06.20	94.6
014.0	27.33	32.7	53.3	20.91	06.20	94.6
016.7	27.43	33.8	54.9	21.67	06.16	94.7
020.0	25.56	35.0	54.6	23.20	04.55	68.1
023.1	23.80	35.2	53.0	23.84	02.50	36.2
026.0	22.25	35.5	51.8	24.57	04.19	59.2
030.1	21.62	35.6	51.3	24.84	05.25	73.3
034.2	21.17	36.2	51.5	25.40	04.89	67.9
037.1	21.13	35.8	51.0	25.13	04.76	65.9
040.0	21.00	35.8	50.9	25.16	04.58	63.3
041.8	21.00	35.9	51.0	25.21	04.37	60.4

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.76	0.19	0.95	1.9
041.8	1.11	0.54	1.65	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)
000.0	00.30	00.10	00.10	00.30	01.00
041.8	01.30	08.70	00.90	00.60	15.20

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 06                      Latitude: 28:22.5 N      Hydrolab cast time: 13:35  
Date: 07/17/85                  Longitude: 91:15.0 W      Secchi disk depth (m): 17.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	28.49	30.5	51.0	19.00	06.17	94.4
004.2	28.46	30.5	51.3	18.92	06.18	95.0
007.9	27.97	33.3	55.5	21.51	06.16	95.6
011.9	28.27	34.6	57.0	22.05	06.09	95.5
016.0	27.53	34.7	56.4	22.37	06.19	95.8
019.8	26.63	34.7	55.3	22.63	06.12	93.2
023.0	26.41	35.5	56.2	23.31	06.38	97.2
028.5	24.17	35.5	53.8	23.97	06.54	95.7
030.5	23.51	35.7	53.3	24.31	06.15	89.0
034.0	22.06	36.0	52.1	24.90	05.52	77.8
037.0	21.70	35.8	51.6	24.93	06.01	84.1
041.1	21.31	35.8	51.1	25.03	06.24	86.7
045.0	20.99	36.1	51.2	25.33	05.81	80.3
049.0	20.72	36.7	50.4	25.11	05.19	71.2
052.9	20.23	35.8	50.0	25.34	04.45	60.6
056.8	20.07	35.8	49.9	25.38	04.10	55.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.50	0.05	0.55	2.1
011.9	0.32	0.11	0.43	1.9
030.5	0.50	0.13	0.63	1.9
041.1	0.53	0.50	1.03	1.6
056.8	0.78	0.72	1.50	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)
000.0	00.80	00.20	00.00	00.20	00.70
011.9	14.00	00.10	00.00	00.20	01.90
030.5	00.80	00.50	00.10	00.20	01.80
041.1	03.30	01.80	00.30	00.20	03.80
056.8	01.00	01.80	00.30	00.20	02.70

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 01                      Latitude: 29:15.5 N      Hydrolab cast time: 05:50  
Date: 07/18/85                  Longitude: 92:00.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

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=====
Depth  Temperature  Salinity  Conductivity  Sigma-t  Dissolved  Percent
(m)    (degrees C)     (ppt)     (mmho/cm)    (mg/L)   Oxygen
                                           Saturation
=====
```

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	28.51	25.6	44.0	15.21	06.16	92.1
001.0	28.53	25.7	44.2	15.26	06.14	91.9
002.1	28.54	25.8	44.4	15.36	06.00	89.9
003.1	28.76	27.8	47.6	16.81	05.10	77.6
004.1	28.78	27.9	47.7	16.86	05.01	76.3
005.1	28.75	28.2	48.2	17.08	04.92	75.0
005.8	28.71	28.4	48.4	17.26	04.75	72.5
007.0	27.63	30.3	50.1	19.00	01.50	22.7

CHLOROPHYLL DATA

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=====
Depth  Chlorophyll  Phaeopigments  Total  Acid
(m)    (ug/L)       (ug/L)         Pigments  Ratio
                                           (Fo/Fa)
=====
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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	12.40	1.98	14.38	2.0
007.0	3.94	2.23	6.17	1.7

NUTRIENT DATA

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=====
Depth  Ammonia  Nitrate  Nitrite  Phosphate  Silicate
(m)    (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L)
=====
```

Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
000.0	01.40	01.30	00.40	02.40	09.30
007.0	04.40	03.30	00.80	01.50	14.80

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 02                      Latitude: 29:08.0 N      Hydrolab cast time: 04:20  
Date: 07/18/85                  Longitude: 92:00.0 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
000.0	28.50	28.0	47.6	16.99	06.62	100.4
002.1	28.51	28.0	47.7	17.05	06.63	100.6
004.1	28.57	28.5	48.4	17.35	06.59	100.3
005.1	28.43	28.9	48.9	17.72	05.67	86.3
006.0	27.01	31.3	51.0	19.95	03.46	52.0
007.1	25.95	32.8	52.0	21.41	01.94	28.9
008.1	25.53	33.4	52.4	21.97	00.05	0.7
009.1	23.94	34.6	52.4	23.41	00.08	1.2
009.9	23.96	34.7	52.5	23.46	00.14	2.0

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	2.76	0.50	3.26	2.0
009.9	7.65	1.74	9.39	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)
000.0	01.10	00.20	00.10	04.30	00.50
005.1	15.10	00.10	00.10	00.20	01.40
009.9	12.30	00.30	00.20	01.90	50.00

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 03                      Latitude: 28:59.0 N      Hydrolab cast time: 02:25  
Date: 07/18/85                  Longitude: 92:00.0 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
000.0	28.30	27.3	46.4	16.57	06.31	95.0
002.1	28.33	27.3	46.6	16.56	06.32	95.2
004.1	28.28	27.2	46.3	16.52	06.29	94.6
006.2	28.38	28.7	46.5	17.57	05.44	82.6
008.1	27.32	31.6	51.7	20.08	04.21	63.8
009.1	26.03	32.6	51.9	21.28	02.00	29.8
010.1	25.67	32.9	51.9	21.60	02.20	32.6
011.7	24.07	34.6	52.6	23.37	00.54	7.8
012.1	23.14	35.2	52.3	24.06	00.08	1.2
013.9	22.68	35.1	51.7	24.12	00.08	1.1
016.2	22.54	35.2	51.8	24.27	00.10	1.4
018.2	22.54	35.3	51.8	24.33	00.14	2.0
019.5	22.55	35.2	51.7	24.21	00.21	3.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.92	0.28	1.20	1.9
019.5	1.35	0.36	1.71	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)
000.0	01.50	00.40	00.10	00.20	01.00
010.1	02.40	04.70	01.30	00.50	17.60
019.5	04.40	15.10	01.40	01.20	42.60



CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 04                      Latitude: 28:54.0 N      Hydrolab cast time: 00:30  
Date: 07/18/85                  Longitude: 92:00.0 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
000.0	28.30	27.5	46.6	16.67	06.47	97.4
002.1	28.31	27.6	46.9	16.78	06.46	97.4
004.0	28.62	27.9	47.6	16.90	06.36	96.6
005.9	28.49	29.7	50.2	18.31	06.00	91.8
008.0	28.10	30.3	50.6	18.86	05.25	80.1
010.0	27.54	31.3	51.5	19.80	03.54	53.8
012.1	26.81	32.5	52.4	20.89	05.01	75.6
014.0	25.66	33.7	52.9	22.16	04.79	71.3
016.0	23.15	35.1	52.2	24.01	02.70	38.7
018.0	22.27	35.4	51.6	24.45	02.16	30.5
020.1	22.17	35.6	51.8	24.65	02.19	30.9
022.0	22.17	36.0	52.3	24.93	02.18	30.8
023.4	22.19	35.7	51.9	24.70	02.24	31.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.86	0.24	1.10	1.9
023.4	1.04	0.59	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)
000.0	06.90	00.10	00.10	00.20	01.00
010.0	01.50	01.20	00.40	00.40	05.60
023.4	02.30	07.90	00.70	00.60	21.50

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 05                      Latitude: 28:47.5 N      Hydrolab cast time: 23:20  
Date: 07/17/85                  Longitude: 92:00.0 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
000.0	28.56	28.4	48.3	17.30	06.42	97.7
003.3	28.53	28.4	48.3	17.31	06.39	97.2
006.0	28.51	30.2	50.9	18.69	05.30	81.4
009.1	27.73	31.0	51.3	19.52	05.31	80.8
012.3	27.88	32.0	52.8	20.20	06.13	94.0
013.8	27.52	32.3	52.8	20.52	06.12	93.4
015.9	27.25	32.7	53.2	20.94	06.00	91.4
018.0	26.07	33.8	53.5	22.11	05.83	87.4
020.0	23.66	34.3	51.6	23.20	03.15	45.3
022.0	22.27	35.6	51.9	24.62	03.07	43.4
023.8	22.00	35.8	51.9	24.86	02.66	37.4
026.0	21.78	36.0	51.8	25.02	02.59	36.3
028.2	21.71	35.7	51.4	24.82	02.67	37.3

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.78	0.22	1.00	1.9
028.2	1.25	0.48	1.73	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)
000.0	07.50	00.30	00.10	00.30	00.90
015.9	04.20	00.10	00.10	01.00	01.30
022.0	05.30	06.60	00.40	00.60	15.80
028.2	00.70	07.90	00.50	00.60	18.50

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 06                      Latitude: 28:40.5 N      Hydrolab cast time: 21:52  
Date: 07/17/85                  Longitude: 92:00.0 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
000.0	28.34	28.3	47.9	17.26	06.34	96.0
002.8	28.36	28.3	47.9	17.25	06.35	96.2
006.0	28.48	31.0	52.0	19.25	06.28	96.8
009.2	28.72	31.7	53.3	19.73	06.14	95.5
012.1	27.80	31.7	52.3	20.00	06.06	92.7
015.0	28.06	32.1	53.1	20.20	06.14	94.5
018.0	27.91	32.4	53.4	20.47	06.07	93.4
021.3	25.18	33.7	52.5	22.35	04.47	65.9
022.9	23.24	35.4	52.6	24.15	03.69	53.0
025.1	22.16	35.5	51.7	24.59	05.55	78.2
027.0	22.16	35.6	51.8	24.65	05.86	82.6
030.1	21.76	35.9	51.7	24.97	04.55	63.8
033.0	21.32	35.9	51.3	25.14	03.69	51.3
036.5	21.27	36.2	51.6	25.32	03.65	50.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.77	0.17	0.94	2.0
036.5	0.96	0.52	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)
000.0	01.50	00.10	00.00	00.20	01.00
012.1	17.50	00.20	00.10	00.20	05.70
022.9	02.90	03.70	00.30	00.20	10.80
036.5	08.50	06.40	00.30	00.50	11.00

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 07                      Latitude: 28:32.0 N      Hydrolab cast time: 20:05  
Date: 07/17/85                  Longitude: 92:00.0 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
000.0	28.31	28.6	48.4	17.64	08.32	95.8
003.1	28.34	28.7	48.5	17.69	08.34	96.2
006.0	28.35	31.4	52.4	19.56	08.28	96.8
009.4	28.18	31.4	62.3	19.67	06.29	96.7
012.2	28.16	31.6	62.6	19.84	06.25	96.2
015.4	27.85	31.8	52.8	20.10	06.05	92.7
017.9	27.10	32.6	52.8	20.87	05.52	83.8
021.9	25.62	33.8	53.0	22.23	04.78	71.1
025.2	23.21	34.8	51.9	23.76	05.83	83.5
028.0	22.33	35.8	52.2	24.72	05.89	83.4
031.2	21.57	35.7	51.3	24.91	06.20	86.5
033.7	21.22	35.9	51.1	25.10	05.97	82.8
037.0	21.06	35.8	51.0	25.14	05.22	72.2
039.9	20.95	35.8	50.8	25.17	04.99	68.9
042.8	20.87	35.8	50.7	25.19	04.39	60.5
045.8	20.88	35.7	50.6	25.07	04.37	60.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.55	0.06	0.61	2.1
045.8	0.65	0.54	1.19	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)
000.0	01.00	00.80	00.00	00.30	00.60
012.2	00.70	00.10	00.00	00.10	00.50
031.2	02.10	00.80	00.20	00.50	01.20
045.8	00.30	04.10	00.20	00.40	09.50

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 08                      Latitude: 28:27.5 N      Hydrolab cast time: 20:05  
Date: 07/17/85                  Longitude: 92:00.0 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
000.0	28.35	29.3	49.4	18.02	06.31	96.1
002.5	28.31	29.4	49.5	18.14	06.33	96.4
005.0	28.34	29.9	50.3	18.52	06.30	96.3
009.1	27.77	31.6	52.2	19.95	06.32	96.5
013.0	27.25	32.0	52.3	20.43	06.01	91.2
016.8	27.07	34.3	55.3	22.22	06.26	95.9
021.2	25.84	35.2	55.2	23.24	06.32	95.2
024.8	23.42	35.5	53.0	24.22	06.84	98.7
029.0	22.67	35.7	52.5	24.58	06.89	98.1
033.3	21.97	35.9	52.0	24.92	06.70	94.3
037.0	21.35	35.6	51.0	24.90	06.70	93.0
040.8	21.00	36.0	51.1	25.27	06.05	83.6
044.9	20.86	36.1	51.1	25.42	05.04	69.6
048.0	20.81	35.5	50.3	24.98	04.48	61.5
051.3	20.73	35.6	50.3	25.05	04.11	56.4
054.0	20.55	35.7	50.2	25.15	03.82	52.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.64	0.10	0.74	2.0
029.0	0.56	0.18	0.74	1.9
054.0	0.52	0.49	1.01	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)
000.0	00.30	00.50	00.00	00.20	00.50
013.0	01.20	00.40	00.00	00.20	01.70
029.0	03.50	00.20	00.10	00.20	05.00
044.9	03.70	00.10	00.10	00.50	01.70
054.0	00.50	02.50	00.30	00.30	04.70

CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 01                      Latitude: 29:32.0 N      Hydrolab cast time: 12:15  
Date: 07/18/85                  Longitude: 92:45.0 W      Secchi disk depth (m): 03.5

HYDROGRAPHIC DATA  
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	29.59	27.0	47.1	15.91	07.02	107.9
001.0	29.39	27.0	46.9	15.97	07.08	108.4
002.0	29.17	26.9	46.6	15.98	07.06	107.7
003.0	29.08	27.0	46.6	16.06	07.03	107.1
003.7	29.06	27.0	46.6	16.07	06.99	106.4
004.9	28.85	28.1	48.0	16.95	05.62	85.8
006.1	27.08	32.0	52.0	20.43	02.04	30.8
007.0	26.95	32.0	51.8	20.46	01.54	23.2
008.4	26.95	32.0	51.9	20.52	01.47	22.2

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	2.22	0.30	2.52	2.0
008.4	5.49	0.97	6.46	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)
000.0	07.70	00.30	00.10	00.90	01.50
008.4	14.00	09.80	01.80	02.10	31.20

CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 02                      Latitude: 29:24.5 N      Hydrolab cast time: 13:35  
Date: 07/18/85                  Longitude: 92:45.0 W      Secchi disk depth (m): 05.5

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	29.75	26.9	47.0	15.76	06.58	101.3
002.1	29.51	26.9	46.8	15.83	06.62	101.5
004.2	29.18	26.8	46.5	15.93	06.65	101.4
006.0	29.19	27.1	46.8	16.09	06.51	99.4
008.2	29.00	28.5	48.8	17.23	05.90	90.5
009.9	28.16	30.8	51.4	19.23	04.98	76.3
011.9	27.56	32.0	52.6	20.35	04.96	75.7
013.4	25.95	33.1	52.4	21.64	02.78	41.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	1.07	0.32	1.39	1.9
013.4	1.54	0.52	2.06	1.9

NUTRIENT DATA

Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	02.90	00.50	00.10	00.20	00.70
013.4	03.80	00.50	00.20	00.30	06.80

CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 03                      Latitude: 29:17.7 N      Hydrolab cast time: 14:35  
Date: 07/18/85                  Longitude: 92:45.0 W     Secchi disk depth (m): 07.0

HYDROGRAPHIC DATA  
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	29.13	26.4	45.8	15.62	06.38	96.9
002.0	29.00	26.4	45.7	15.66	06.35	96.3
003.8	28.94	26.4	45.6	15.67	06.34	96.0
006.3	29.12	29.1	49.8	17.63	06.37	98.3
007.8	28.59	30.2	50.9	18.61	06.31	97.0
009.9	28.24	30.5	51.1	18.99	05.81	89.0
012.1	27.87	31.6	52.2	19.87	05.11	78.2
014.0	26.97	33.1	53.5	21.35	04.92	74.7
015.8	25.06	33.8	52.5	22.44	02.75	40.5

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.75	0.08	0.83	2.0
015.8	1.19	0.57	1.76	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)
000.0	02.10	00.20	00.10	00.60	01.00
007.8	00.30	00.30	00.10	00.10	00.70
015.8	03.30	00.40	00.10	00.20	04.60



CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 04                      Latitude: 29:10.5 N      Hydrolab cast time: 15:45  
Date: 07/18/85                  Longitude: 92:45.0 W      Secchi disk depth (m): 07.0

HYDROGRAPHIC DATA

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=====
Depth  Temperature  Salinity  Conductivity  Dissolved  Percent
(m)    (degrees C)    (ppt)    (mmho/cm)   Sigma-t   Oxygen   Oxygen
                                           (mg/L)   Saturation
=====
000.0      29.47      26.8      46.8      15.84    06.51    99.8
003.1      29.26      27.6      47.7      16.44    06.49    99.5
005.9      29.01      30.9      52.3      18.98    06.40    99.5
009.0      28.82      31.9      53.6      19.81    06.26    97.6
011.8      28.41      32.2      53.6      20.16    06.11    94.7
013.8      28.08      32.2      53.4      20.31    06.25    96.3
016.0      27.65      32.6      53.5      20.77    06.15    94.3
017.8      25.23      34.2      53.2      22.73    03.53    52.3
=====
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CHLOROPHYLL DATA

```
=====
Depth  Chlorophyll  Phaeopigments  Total  Acid
(m)    (ug/L)      (ug/L)         Pigments  Ratio
                                           (ug/L)   (Fo/Fa)
=====
000.0      1.30      0.21          1.51     2.0
017.8      1.83      0.56          2.39     1.9
=====
```

NUTRIENT DATA

```
=====
Depth  Ammonia  Nitrate  Nitrite  Phosphate  Silicate
(m)    (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L)
=====
000.0      13.70      00.80      00.10      00.20      00.50
017.8      04.00      00.10      00.00      00.30      03.80
=====
```

CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 05                      Latitude: 29:03.0 N      Hydrolab cast time: 16:55  
Date: 07/18/85                  Longitude: 92:45.0 W      Secchi disk depth (m): 08.5

HYDROGRAPHIC DATA  
=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	29.13	28.2	48.4	16.92	06.42	98.5
003.0	29.07	29.9	51.0	18.25	06.37	98.6
005.9	28.90	31.0	52.4	19.12	06.45	100.2
008.8	28.65	32.0	53.5	19.92	06.26	97.3
012.2	28.59	32.3	54.0	20.21	06.28	97.7
015.1	27.74	32.4	53.3	20.57	06.00	92.0
017.8	27.23	32.8	53.4	21.05	05.51	83.9
019.7	25.10	34.0	52.8	22.60	05.13	75.7
022.0	24.69	34.7	53.2	23.21	05.28	77.6

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.75	0.06	0.81	2.0
022.0	1.77	0.79	2.56	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)
000.0	07.70	00.50	00.10	00.10	02.30
012.2	00.30	00.50	00.10	00.70	01.10
022.0	16.80	00.70	00.10	00.30	06.80

CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 06                      Latitude: 28:53.5 N      Hydrolab cast time: 18:13  
Date: 07/18/85                  Longitude: 92:45.0 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
000.0	29.24	29.5	50.6	17.92	06.35	98.4
002.9	28.77	30.0	50.9	18.45	06.31	97.2
005.9	28.73	31.2	52.6	19.34	06.25	96.9
008.9	28.67	31.4	52.8	19.52	06.22	96.4
012.3	28.70	32.0	53.7	19.96	06.23	97.0
015.1	28.11	32.6	53.9	20.58	06.28	97.0
018.0	27.06	33.0	53.4	21.21	06.00	91.2
020.1	26.31	33.4	53.2	21.76	06.13	92.1
022.0	24.49	34.5	52.8	23.15	05.87	85.9
024.0	24.49	34.6	52.9	23.21	05.89	86.2

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.59	0.05	0.64	2.0
024.0	1.16	0.56	1.72	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)
000.0	05.20	00.60	00.10	00.20	00.30
012.3	13.50	00.20	00.10	00.20	00.60
024.0	12.00	00.20	00.10	00.30	01.70

CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 08                      Latitude: 28:38.5 N      Hydrolab cast time: 20:13  
Date: 07/18/85                  Longitude: 92:45.0 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
000.0	28.73	31.0	52.2	19.17	06.27	97.1
003.0	28.57	31.0	52.1	19.22	06.27	96.8
005.8	28.41	31.0	51.9	19.27	06.27	96.5
009.0	28.56	31.4	52.7	19.56	06.30	97.5
010.9	28.50	31.9	53.3	19.91	06.32	98.0
013.7	28.41	32.2	53.7	20.21	06.31	97.8
017.2	28.21	32.5	53.9	20.49	06.30	97.5
019.7	28.05	32.6	53.9	20.59	06.31	97.4
023.0	27.46	32.9	53.8	21.04	06.02	92.1
026.2	27.43	33.9	55.1	21.78	06.23	95.8
029.2	23.79	34.7	52.4	23.50	05.90	85.3
032.0	21.52	35.5	51.0	24.75	04.29	59.7
034.7	21.28	35.6	50.8	24.86	04.28	59.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.28	0.04	0.32	2.0
034.7	1.64	0.85	2.49	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)
000.0	03.80	00.20	00.10	00.30	01.40
010.9	05.00	00.20	00.10	00.30	00.40
019.7	02.90	01.10	00.10	00.20	00.30
034.7	11.30	06.70	00.70	00.40	01.90

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 01                      Latitude: 29:42.4 N      Hydrolab cast time: 11:00  
Date: 07/19/85                  Longitude: 93:25.0 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
000.0	29.35	28.6	49.3	17.18	07.59	117.2
002.2	29.33	28.7	49.4	17.24	07.61	117.5
003.9	29.29	28.6	49.2	17.20	07.54	116.3
006.0	28.98	29.0	49.4	17.56	05.33	81.9
007.0	28.85	29.0	49.4	17.65	04.56	70.0
008.2	28.76	29.1	49.4	17.74	03.65	55.9
008.9	28.74	29.2	49.5	17.80	04.09	62.7
010.0	28.56	29.2	49.5	17.90	02.43	37.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	4.17	0.73	4.90	2.0
010.0	7.03	0.89	7.92	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)
000.0	01.30	00.10	00.10	00.40	00.90
010.0	06.20	00.60	00.20	00.20	01.90

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 02                      Latitude: 29:38.5 N      Hydrolab cast time: 10:00  
Date: 07/19/85                  Longitude: 93:25.0 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
000.0	28.88	28.1	48.1	16.94	06.96	106.3
001.8	29.00	28.2	48.4	17.01	06.94	106.3
003.9	28.93	28.3	48.4	17.08	06.90	105.6
006.1	28.99	28.4	48.7	17.18	06.97	106.9
007.9	28.78	28.9	49.2	17.57	05.94	91.0
009.1	28.57	29.2	49.4	17.85	03.92	59.9
010.0	28.49	29.5	49.8	18.14	03.34	51.1
011.3	28.37	29.6	49.8	18.23	02.36	36.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	3.06	0.26	3.32	2.0
011.3	6.08	1.40	7.48	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)
000.0	00.60	00.00	00.00	00.20	00.30
011.3	02.20	00.30	00.10	00.20	01.30

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 03                      Latitude: 29:29.3 N      Hydrolab cast time: 08:30  
Date: 07/19/85                  Longitude: 93:25.0 W      Secchi disk depth (m): ##.##

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
000.0	29.13	28.8	49.4	17.41	06.56	101.0
002.1	29.16	28.9	49.5	17.45	06.56	101.1
004.2	29.20	29.1	49.9	17.60	06.60	102.0
005.0	29.26	28.9	49.6	17.42	06.62	102.2
007.0	28.98	29.1	49.7	17.67	06.24	96.0
008.2	28.88	29.2	49.8	17.81	06.07	93.3

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	2.20	0.35	2.55	2.0
008.2	2.61	0.24	2.85	2.0

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)
000.0	01.70	00.00	00.10	00.20	00.20
008.2	02.20	00.60	00.10	00.20	00.20

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 04                      Latitude: 29:19.5 N      Hydrolab cast time: 06:15  
Date: 07/19/85                  Longitude: 93:25.0 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
000.0	29.13	28.2	48.4	16.92	06.32	97.0
002.1	29.12	28.2	48.5	16.97	06.31	96.8
004.0	29.07	28.2	48.4	16.93	06.33	97.0
006.2	29.08	28.4	48.7	17.09	06.31	96.9
008.1	28.97	28.4	48.7	17.18	06.32	96.9
010.1	28.56	30.0	50.5	18.45	05.46	83.8
011.1	27.59	31.5	51.9	19.95	02.40	36.5
011.9	27.59	32.0	52.5	20.28	03.15	48.1
013.0	27.68	32.3	53.0	20.48	04.62	70.7
014.1	27.58	32.9	53.9	21.01	04.95	75.9
015.1	27.42	32.9	53.7	21.05	04.47	68.4
016.7	27.41	33.0	53.8	21.11	04.45	68.1

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.60	0.12	0.72	2.0
011.1	1.29	0.57	1.86	1.8
016.7	1.69	0.65	2.34	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)
000.0	06.90	00.80	00.20	00.10	00.20
011.1	20.30	02.80	00.90	00.20	01.70
016.7	08.00	01.10	00.30	00.30	02.60



CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 05                      Latitude: 29:10.0 N                      Hydrolab cast time: 04:55  
Date: 07/19/85                      Longitude: 93:25.0 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
000.0	29.03	29.0	49.6	17.60	06.47	99.6
001.9	29.05	29.0	49.6	17.59	06.45	99.3
004.1	28.94	29.0	49.5	17.63	06.45	99.1
005.9	28.87	30.0	51.0	18.42	06.44	99.4
008.0	28.78	31.4	52.8	19.44	06.30	97.8
010.1	28.60	31.8	53.3	19.82	06.26	97.2
011.9	28.14	32.4	53.6	20.40	06.28	97.0
014.0	27.80	33.1	54.3	21.06	06.21	95.7
016.1	27.29	33.3	54.1	21.37	05.37	82.1
017.2	26.67	33.6	53.9	21.83	03.77	57.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.80	0.14	0.94	2.0
017.2	2.18	1.04	3.22	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)
000.0	01.50	00.50	00.10	00.20	00.30
010.1	03.00	00.20	00.10	00.30	00.20
017.2	06.20	01.80	00.50	00.50	03.50

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 06                      Latitude: 29:00.0 N      Hydrolab cast time: 03:15  
Date: 07/19/85                  Longitude: 93:25.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.96	30.3	51.5	18.61	06.31	97.7
002.0	28.97	30.3	51.4	18.55	06.33	98.0
004.1	28.87	30.6	51.7	18.80	06.30	97.6
005.9	28.76	31.9	53.6	19.83	06.23	97.0
008.0	28.29	32.5	53.9	20.41	06.19	95.9
010.1	28.30	32.8	54.4	20.63	06.24	96.8
011.9	28.24	32.8	54.4	20.71	06.21	96.3
014.0	27.84	33.0	54.3	20.99	06.26	96.5
016.0	26.99	33.7	54.3	21.74	06.03	91.9
018.1	26.52	33.8	54.0	21.98	05.84	88.3
020.1	26.21	34.2	54.1	22.35	05.68	85.6
022.0	26.06	34.2	54.1	22.45	05.13	77.1
023.9	25.48	34.4	53.7	22.77	03.94	58.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	0.58	0.08	0.66	2.0
023.9	1.27	0.81	2.08	1.7

NUTRIENT DATA

Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	15.20	00.70	00.10	00.30	00.30
011.9	##.##	00.90	00.10	00.30	00.50
023.9	04.50	02.30	00.30	00.40	01.60

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 08                      Latitude: 28:42.0 N      Hydrolab cast time: 00:25  
Date: 07/19/85                  Longitude: 93:25.0 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
000.0	28.85	31.6	53.2	19.58	06.21	96.7
002.9	28.84	31.6	53.2	19.58	06.21	96.7
006.0	28.73	31.8	53.4	19.78	06.23	96.9
008.9	28.58	32.6	54.3	20.38	06.22	96.9
010.0	##.##	##.##	##.##	##.##	##.##	##.##
012.0	27.79	33.1	54.3	21.06	06.18	95.2
015.0	27.58	33.9	55.2	21.74	06.20	95.6
018.0	25.48	34.8	54.2	23.05	05.92	88.4
019.8	24.89	34.8	53.7	23.27	06.30	93.0
022.1	24.14	35.1	53.2	23.69	06.28	91.6
023.8	23.17	34.9	52.0	23.83	05.48	78.4
026.1	21.86	35.3	51.1	24.50	05.20	72.8
028.0	21.87	35.4	51.3	24.61	05.27	73.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.33	0.08	0.41	1.9
028.0	0.98	0.55	1.53	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)
000.0	05.30	00.20	00.10	00.40	00.70
010.0	17.90	00.30	00.10	00.30	00.90
019.8	07.80	00.10	00.10	00.30	00.90
028.0	02.70	00.20	00.10	00.30	00.80

CRUISE DATA - TRANSECT M  
(off Sabine)

Station: 01                      Latitude: 29:42.0 N      Hydrolab cast time: 12:55  
Date: 07/19/85                  Longitude: 93:39.3 W      Secchi disk depth (m): 04.1

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
000.0	28.96	28.6	48.9	17.29	07.53	115.5
001.8	29.07	28.6	49.0	17.26	07.53	115.7
004.0	29.13	29.0	49.6	17.52	07.35	113.3
004.9	29.07	29.0	49.5	17.53	07.27	112.0
006.1	28.96	29.0	49.5	17.62	05.79	89.0
007.2	28.83	29.1	49.5	17.71	03.98	61.1
008.0	28.63	29.2	49.4	17.83	02.77	42.4
008.9	28.54	29.2	49.3	17.85	02.52	38.5

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	3.93	0.74	4.67	2.0
008.9	11.59	2.87	14.46	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)
000.0	05.50	00.20	00.10	00.70	01.80
008.9	02.20	02.60	00.90	00.30	03.10

CRUISE DATA - TRANSECT M  
(off Sabine)

Station: 02                      Latitude: 29:35.8 N      Hydrolab cast time: 13:58  
Date: 07/19/85                  Longitude: 93:37.8 W      Secchi disk depth (m): 04.6

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
000.0	29.22	28.8	49.5	17.38	06.93	106.9
001.2	29.21	28.9	49.6	17.44	07.06	108.9
002.0	29.19	29.0	49.8	17.55	07.15	110.4
002.9	29.06	29.2	49.9	17.70	06.95	107.1
004.0	29.07	29.2	50.0	17.75	06.87	106.0
005.0	29.00	29.3	50.0	17.83	06.75	104.0
005.9	28.81	29.3	49.8	17.88	06.40	98.3
006.9	28.69	29.5	50.0	18.08	03.91	60.0
008.0	28.65	29.6	50.1	18.15	02.96	45.4
009.1	28.62	29.7	50.2	18.21	02.40	36.8
009.5	28.53	30.0	50.6	18.52	01.30	20.0

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	2.51	0.30	2.81	2.0
009.5	9.97	2.36	12.33	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)
000.0	15.40	00.20	00.10	00.30	00.10
009.5	10.60	07.00	02.80	00.60	05.20

CRUISE DATA - TRANSECT M  
(off Sabine)

Station: 03                      Latitude: 29:27.0 N      Hydrolab cast time: 15:18  
Date: 07/19/85                  Longitude: 93:36.2 W      Secchi disk depth (m): 05.9

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	28.83	29.3	49.8	17.88	06.57	100.9
002.0	28.82	29.2	49.7	17.83	06.56	100.7
004.1	28.90	29.3	49.9	17.86	06.60	101.5
006.2	28.92	29.8	50.6	18.18	06.72	103.7
007.5	28.91	29.7	50.5	18.13	06.59	101.6
008.0	28.55	30.7	51.6	19.01	04.50	69.3
009.1	28.41	31.0	52.0	19.32	04.73	72.8
010.0	27.95	31.8	52.7	20.07	03.48	53.4
011.2	27.90	32.1	53.1	20.30	03.60	55.3
012.1	27.84	32.2	53.1	20.38	03.35	51.4
013.2	27.72	32.2	53.0	20.41	02.54	38.9

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.81	0.24	2.05	2.0
013.2	2.06	0.79	2.85	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)
000.0	04.80	00.40	00.10	00.20	00.10
004.1	06.20	00.10	00.10	00.20	00.10
010.0	03.40	00.00	00.00	00.30	00.10
013.2	06.20	06.70	02.20	02.60	09.70

CRUISE DATA - TRANSECT M  
(off Sabine)

Station: 04                      Latitude: 29:20.0 N      Hydrolab cast time: 16:31  
Date: 07/19/85                  Longitude: 93:34.7 W      Secchi disk depth (m): 08.0

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	29.26	28.6	49.2	17.20	06.43	99.1
002.0	29.17	28.7	49.2	17.29	06.48	99.8
004.1	28.96	28.6	48.9	17.29	06.54	100.3
006.2	28.92	28.9	49.3	17.52	06.52	100.1
008.2	28.75	30.3	51.2	18.62	05.70	87.9
010.0	27.93	32.5	53.6	20.57	05.50	84.7
011.3	27.75	33.0	54.2	21.02	04.87	75.0
012.3	27.75	33.2	54.4	21.13	04.92	75.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.12	0.21	1.33	2.0
012.3	1.27	0.75	2.02	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)
000.0	07.70	00.50	00.20	00.30	00.70
012.3	30.60	01.00	00.40	00.30	02.30

CRUISE DATA - TRANSECT M  
(off Sabine)

Station: 05                      Latitude: 29:09.5 N      Hydrolab cast time: 18:55  
Date: 07/19/85                  Longitude: 93:32.5 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
000.0	29.06	29.5	50.3	17.92	06.44	99.4
002.2	29.07	29.5	50.3	17.92	06.44	99.4
004.1	28.91	29.7	50.5	18.13	06.44	99.3
006.0	28.92	30.0	50.9	18.35	06.39	98.7
008.0	28.92	32.0	53.8	19.84	06.19	96.7
010.1	28.49	32.1	53.6	20.08	06.22	96.5
012.1	28.30	32.4	53.8	20.35	06.21	96.2
014.4	27.71	33.2	54.3	21.14	06.07	93.4
016.4	26.57	34.1	54.4	22.19	05.72	86.7
018.6	25.80	34.4	54.0	22.63	04.90	73.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.08	0.23	1.31	2.0
018.6	1.26	0.68	1.94	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)
000.0	27.00	00.00	00.00	01.70	03.20
010.1	02.50	00.10	00.10	00.20	00.30
018.6	05.80	00.30	00.10	00.30	01.60



CRUISE DATA - TRANSECT P  
(off High Island)

Station: 01                      Latitude: 29:37.0 N      Hydrolab cast time: 01:20  
Date: 07/20/85                  Longitude: 94:04.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.67	29.7	50.3	18.25	06.26	96.1
002.0	28.66	29.8	50.4	18.31	06.27	96.3
004.1	28.79	30.4	51.4	18.71	06.36	98.3
005.9	28.69	30.7	51.8	18.96	05.33	82.3
007.1	28.46	30.8	51.6	19.09	03.69	56.8
008.1	28.43	30.8	51.6	19.10	03.40	52.3
009.2	28.41	30.7	51.5	19.05	03.37	51.8
009.5	28.41	30.8	51.6	19.10	03.42	52.6

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	2.56	0.82	3.38	1.9
009.2	4.41	1.69	6.10	1.8

NUTRIENT DATA

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Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	05.20	00.60	00.20	00.30	02.30
009.2	08.30	03.60	01.20	00.90	05.40

CRUISE DATA - TRANSECT P  
(off High Island)

Station: 02                      Latitude: 29:31.0 N      Hydrolab cast time: 00:05  
Date: 07/20/85                  Longitude: 94:01.0 W      Secchi disk depth (m): ##.##

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
000.0	28.57	30.0	50.6	18.45	06.39	98.1
002.0	28.61	30.0	50.6	18.44	06.38	98.0
004.1	28.84	30.2	51.2	18.53	06.30	97.3
006.1	28.92	30.4	51.6	18.68	06.01	93.1
008.0	28.76	30.9	52.2	19.11	05.66	87.6
009.1	28.75	31.0	52.2	19.17	05.51	85.4
009.8	28.66	31.0	52.2	19.19	05.10	78.9
010.6	28.55	31.1	52.2	19.28	04.20	64.8

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.02	0.26	1.28	1.9
010.6	1.15	0.61	1.76	1.7

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)
000.0	##.##	00.10	00.10	00.20	00.40
010.6	06.30	00.00	00.00	00.20	01.40

CRUISE DATA - TRANSECT P  
(off High Island)

Station: 03                      Latitude: 29:25.5 N      Hydrolab cast time: 22:44  
Date: 07/19/85                  Longitude: 93:58.0 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
000.0	28.96	30.0	51.0	18.33	06.41	99.1
002.0	28.94	29.9	50.8	18.29	06.38	98.5
004.0	28.93	30.0	50.9	18.34	06.35	98.1
006.9	##.##	##.##	##.##	##.##	03.70	##
006.0	28.82	30.2	51.1	18.54	##.##	97.3
008.0	28.29	31.3	52.3	19.58	02.51	38.6
009.0	28.39	31.0	51.9	19.27	02.55	39.2
009.8	28.39	31.0	51.9	19.27	02.56	39.4
010.7	28.28	31.3	52.3	19.58	02.51	38.6

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.33	0.49	1.82	1.8
010.7	3.97	1.59	5.56	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)
000.0	17.00	00.10	00.10	00.40	00.70
010.7	13.00	05.50	01.60	00.90	10.10

CRUISE DATA - TRANSECT P  
(off High Island)

Station: 04                      Latitude: 29:18.0 N      Hydrolab cast time: 21:32  
Date: 07/19/85                  Longitude: 93:54.0 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
000.0	28.90	29.6	50.4	18.08	06.62	102.0
002.0	28.91	29.7	50.5	18.13	06.60	101.8
004.0	28.91	29.7	50.5	18.13	06.61	101.9
006.1	28.98	30.3	51.4	18.55	06.39	99.0
007.9	28.58	30.8	51.9	19.11	05.88	90.7
009.9	28.18	31.6	52.5	19.78	05.22	80.3
012.0	27.40	33.4	54.3	21.40	03.98	61.0
013.4	27.40	33.4	54.3	21.40	04.00	61.3

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.02	0.33	1.35	1.9
013.4	1.78	0.91	2.69	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)
000.0	02.60	00.30	00.00	00.20	00.30
013.4	33.20	00.90	00.30	00.60	03.50

CRUISE DATA - TRANSECT P  
(off High Island)

Station: 05                      Latitude: 29:10.0 N                      Hydrolab cast time: 20:14  
Date: 07/19/85                      Longitude: 93:49.7 W                      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

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Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.75	28.9	49.2	17.63	06.50	99.5
002.2	28.76	28.9	49.2	17.63	06.50	99.5
004.2	29.16	29.5	50.4	17.89	06.53	101.0
006.0	29.09	29.8	50.8	18.13	06.46	100.0
008.0	28.92	31.5	53.2	19.51	06.34	98.8
010.0	28.54	32.2	53.8	20.12	06.24	96.9
011.9	28.14	32.6	54.0	20.57	06.24	96.5
014.0	27.63	33.1	54.1	21.11	05.87	90.2
015.2	26.31	34.2	54.2	22.32	04.03	60.8
016.6	26.17	34.2	54.1	22.36	03.75	56.5

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	1.11	0.37	1.48	1.8
016.6	1.20	1.07	2.27	1.6

NUTRIENT DATA

=====

Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	03.80	00.20	00.10	00.30	01.60
010.0	17.10	00.10	00.10	00.50	01.80
016.6	10.70	00.70	00.10	00.30	02.00

CRUISE DATA - TRANSECT R

(parallel to shore @10 m depth from High Island to Cameron)

Station: 01                      Latitude: 29:27.5 N      Hydrolab cast time: 03:05  
 Date: 07/20/85                  Longitude: 94:10.5 W      Secchi disk depth (m): ##.##

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
000.0	28.62	31.1	52.3	19.32	06.37	98.5
001.9	28.63	31.1	52.3	19.31	06.39	98.8
004.1	28.64	31.1	52.4	19.31	06.35	98.2
006.1	28.66	31.1	52.4	19.31	06.17	95.5
007.9	28.70	31.4	52.8	19.52	05.54	86.0
010.0	28.43	32.2	53.7	20.21	04.87	75.5
010.8	28.38	32.3	54.0	20.28	04.68	72.6
012.2	28.23	32.5	54.0	20.49	03.77	58.4

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.18	0.25	1.43	1.9
012.2	1.41	0.65	2.06	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)
000.0	03.50	00.10	00.10	02.30	22.10
012.2	02.10	00.40	00.20	00.30	02.50

CRUISE DATA - TRANSECT R

(parallel to shore @10 m depth from High Island to Cameron)

Station: 02                      Latitude: 29:33.0 N      Hydrolab cast time: 05:20  
 Date: 07/20/85                  Longitude: 93:52.0 W      Secchi disk depth (m): ##.##

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
000.0	28.82	29.7	50.4	18.16	06.36	97.9
002.0	28.84	29.8	50.5	18.20	06.37	98.1
003.9	28.84	29.7	50.4	18.15	06.38	98.2
005.7	28.84	29.6	50.3	18.09	06.37	98.0
007.8	28.89	30.0	50.9	18.35	05.76	88.9
008.9	28.87	30.2	51.2	18.53	05.66	87.5
010.1	28.75	30.4	51.4	18.73	04.43	68.4
010.7	28.70	30.6	51.6	18.85	04.18	64.5

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.41	0.74	2.15	1.8
010.7	2.48	1.16	3.64	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)
000.0	05.40	00.20	00.10	00.20	00.10
010.7	29.00	00.70	00.20	00.30	01.80

CRUISE DATA - TRANSECT R

(parallel to shore @10 m depth from High Island to Cameron)

Station: 03                      Latitude: 29:37.0 N      Hydrolab cast time: 07:40  
 Date: 07/20/85                  Longitude: 93:32.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.91	28.8	49.2	17.47	06.49	99.6
002.3	28.93	28.9	49.3	17.52	06.49	99.6
003.8	28.88	28.8	49.1	17.48	06.49	99.5
005.9	29.01	28.8	49.3	17.44	06.50	99.9
007.8	29.08	29.5	50.3	17.91	06.30	97.3
008.8	28.51	29.9	50.4	18.41	03.00	46.0
010.7	28.25	30.5	51.1	18.98	01.56	23.9
011.8	28.16	30.5	51.0	19.01	00.86	13.1

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	1.49	1.11	2.60	1.7
011.8	8.06	2.22	10.28	1.9

NUTRIENT DATA

=====

Depth (m)	Ammonia	Nitrate	Nitrite	Phosphate	Silicate
	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)	(ug-at/L)
000.0	10.40	00.10	00.00	00.40	00.30
011.8	04.30	11.80	04.00	01.40	08.10



CRUISE DATA - TRANSECT R

(parallel to shore @10 m depth from High Island to Cameron)

Station: 04                      Latitude: 29:39.3 N      Hydrolab cast time: 09:00  
 Date: 07/20/85                  Longitude: 93:22.5 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
000.0	29.05	27.8	47.9	16.72	06.44	98.5
001.9	29.10	27.9	48.0	16.76	06.47	99.1
004.2	29.03	27.8	47.9	16.73	06.46	98.8
006.2	29.14	28.8	49.4	17.40	06.64	102.3
007.1	28.96	29.0	49.5	17.62	06.16	94.7
008.1	28.67	29.4	49.8	17.98	04.60	70.5
009.1	28.43	29.9	50.3	18.44	02.26	34.6
010.1	28.23	30.0	50.3	18.60	01.37	20.9
010.6	28.22	30.0	50.3	18.61	01.37	20.9

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.31	0.52	1.83	1.8
010.6	3.48	1.62	5.10	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)
000.0	00.40	00.20	00.10	00.10	00.10
010.6	14.80	06.00	02.00	00.60	04.70

CRUISE DATA - TRANSECT R

(parallel to shore @10 m depth from High Island to Cameron)

Station: 05                      Latitude: 29:39.4 N      Hydrolab cast time: 10:10  
 Date: 07/20/85                  Longitude: 93:15.5 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
000.0	28.90	27.6	47.4	16.60	06.27	95.5
001.9	28.92	27.6	47.4	16.60	06.28	95.7
004.1	28.90	27.8	47.6	16.71	06.30	96.1
006.1	28.91	27.8	47.6	16.71	06.29	95.9
008.2	29.04	28.0	48.1	16.83	06.16	94.3
008.9	28.90	28.5	48.7	17.26	04.82	73.8
009.4	28.46	29.8	50.2	18.37	01.90	29.1
010.2	28.16	30.4	50.8	18.90	00.68	10.4

CHLOROPHYLL DATA

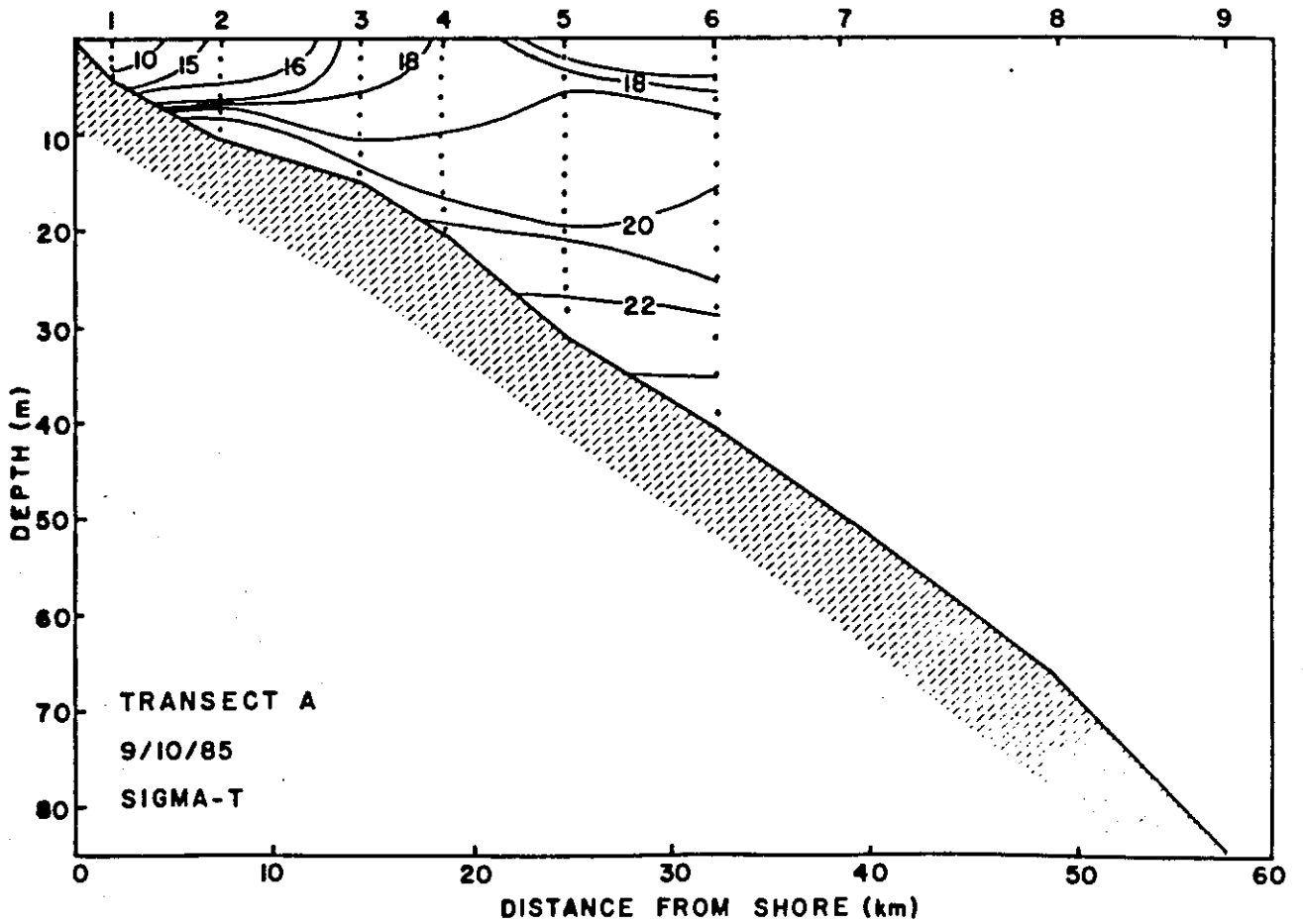
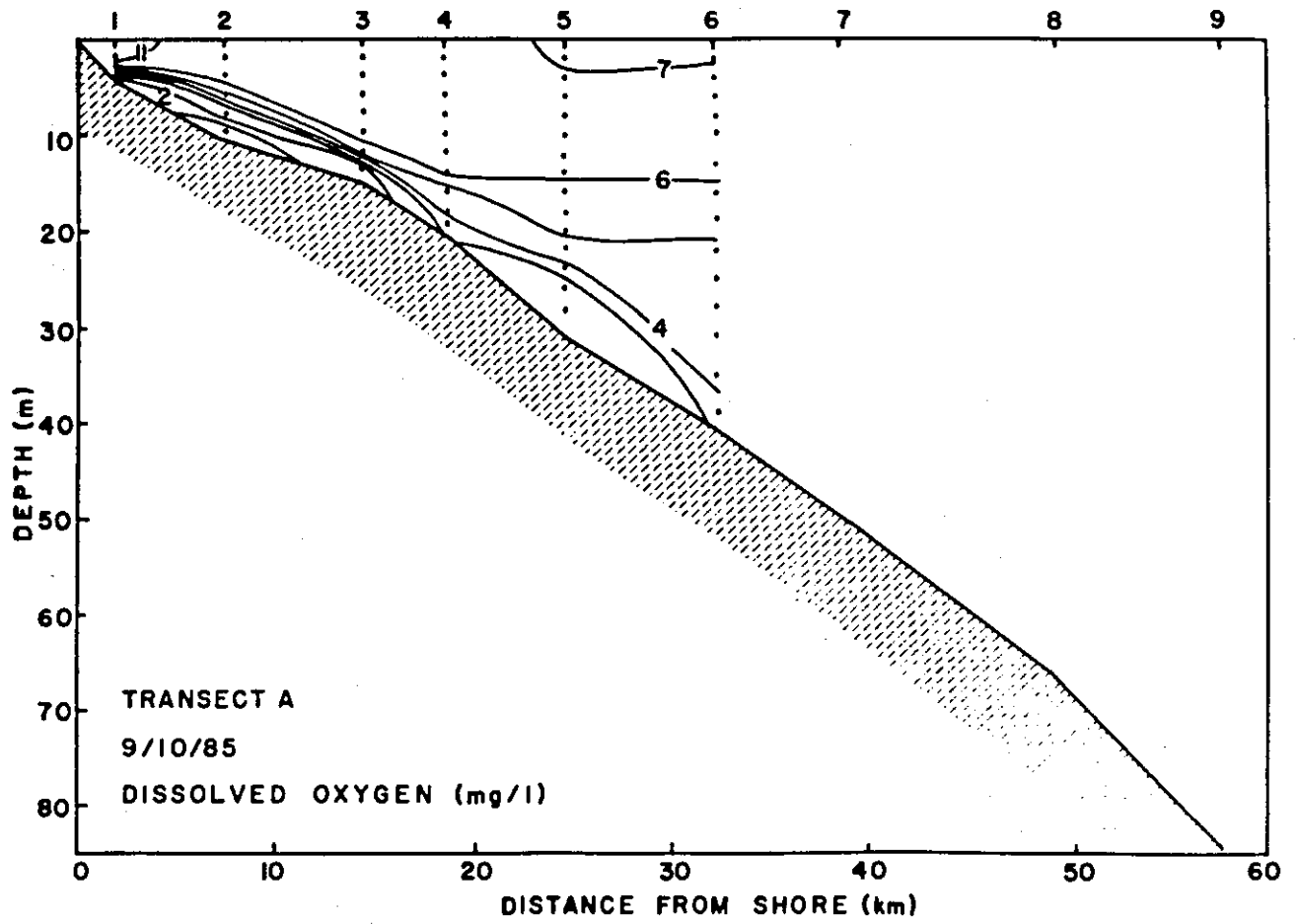
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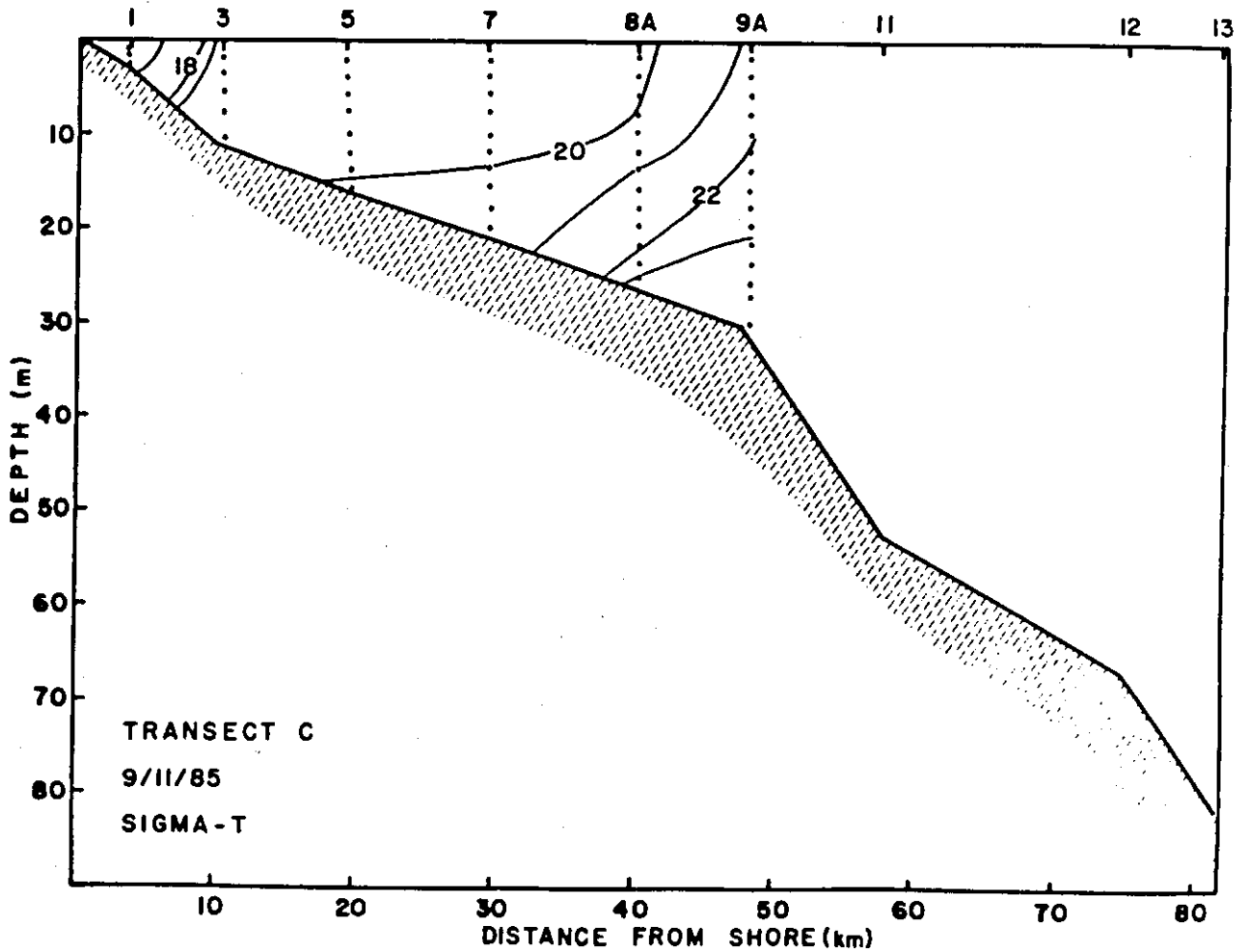
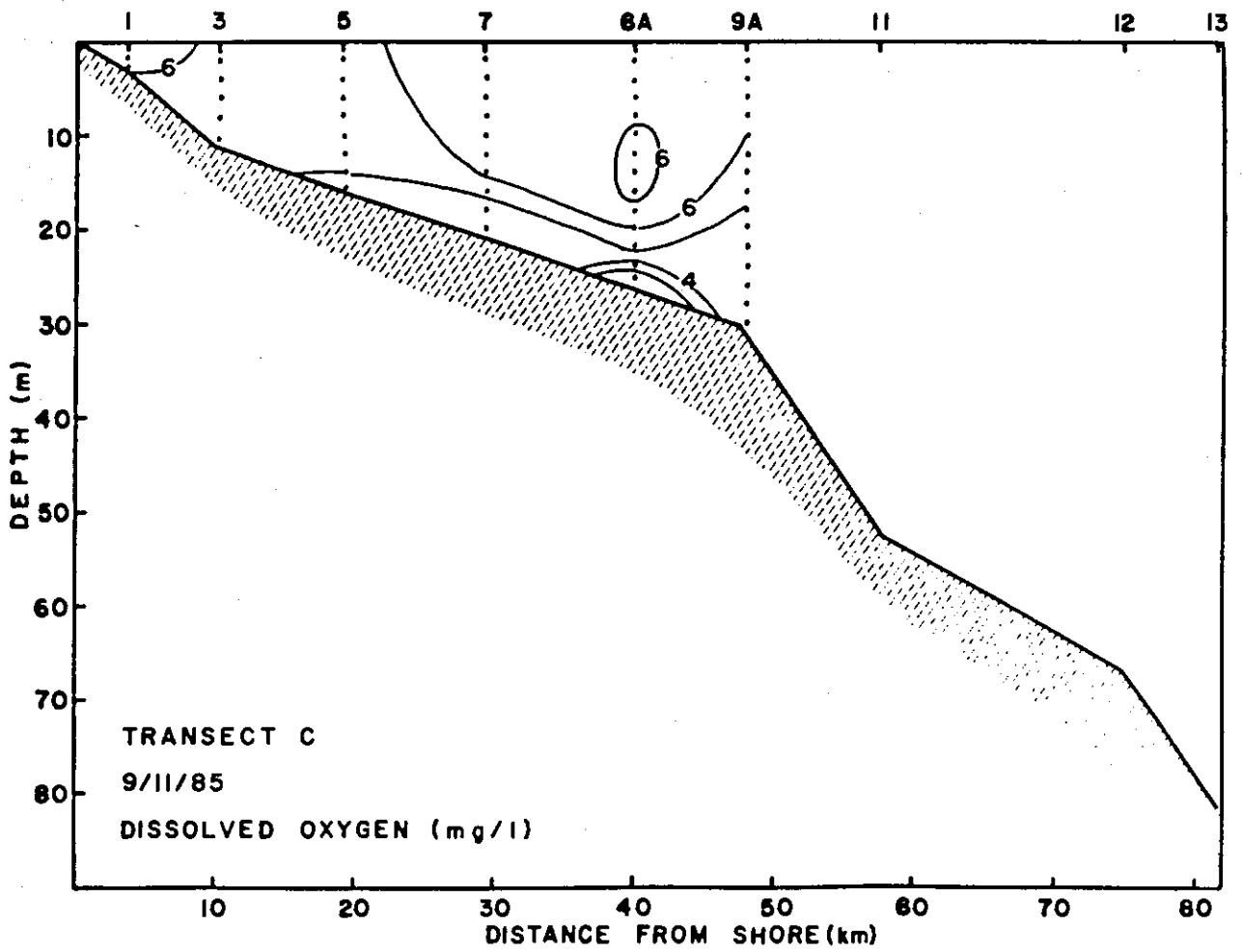
Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.09	0.27	1.36	1.9
010.2	1.09	0.40	1.49	1.8

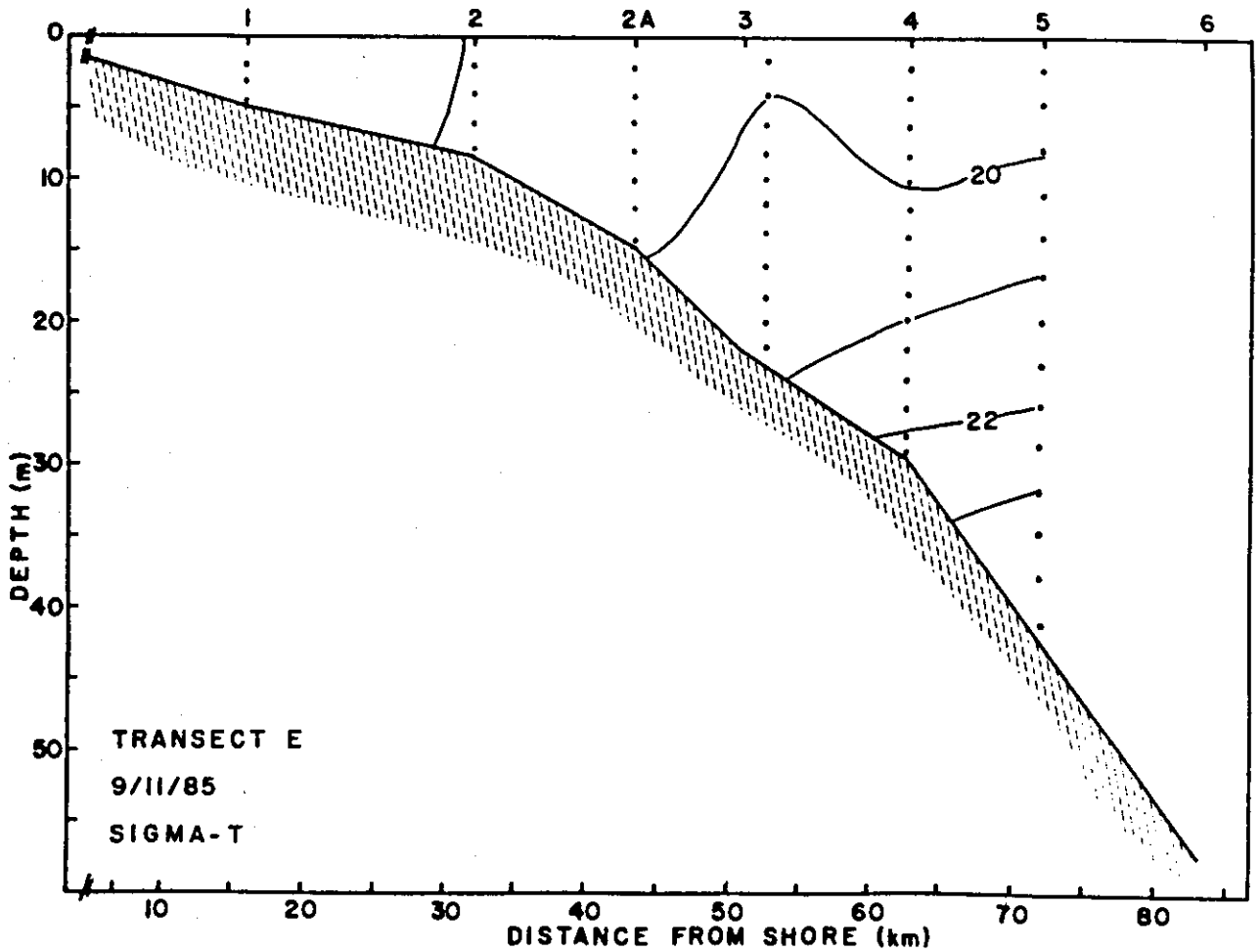
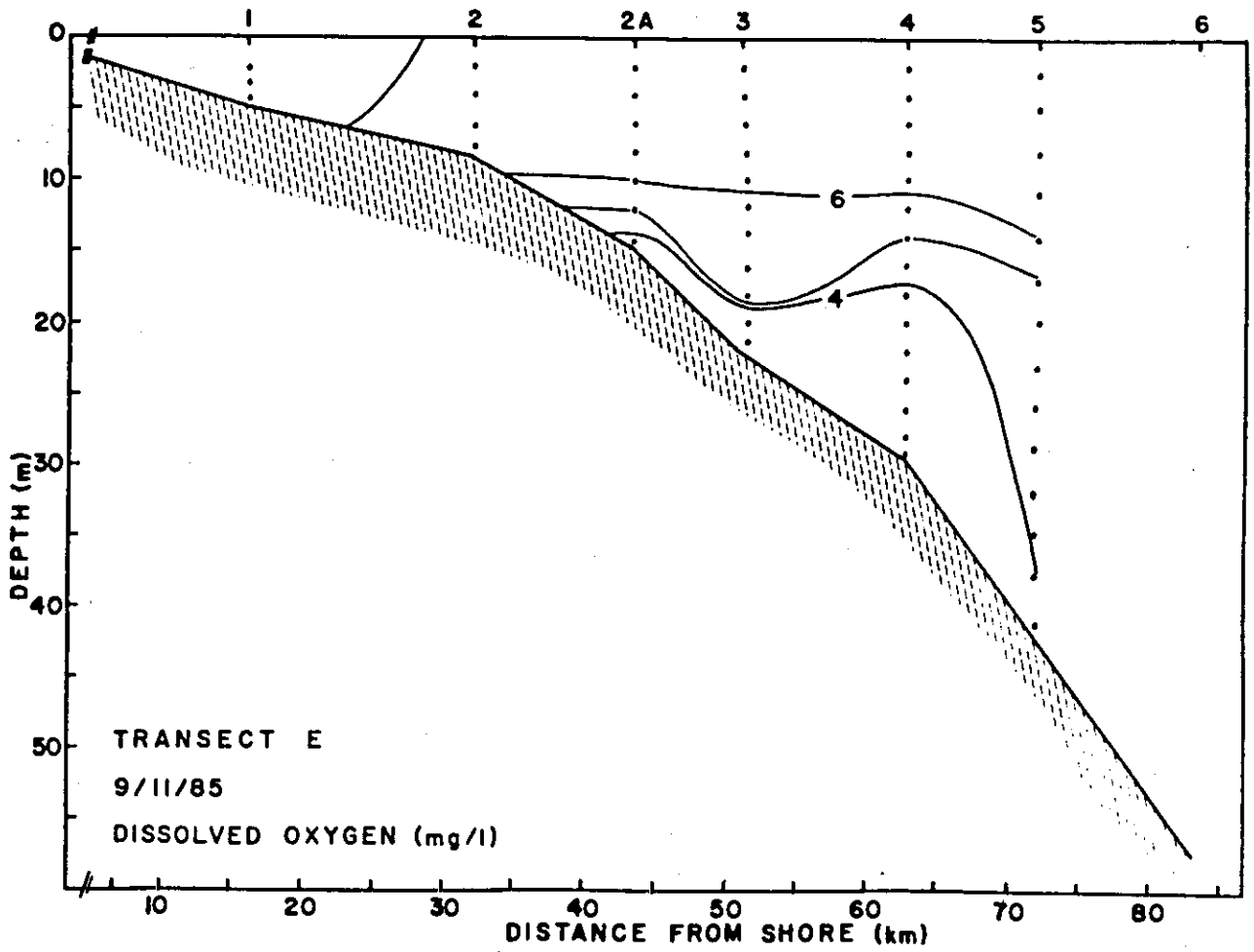
NUTRIENT DATA

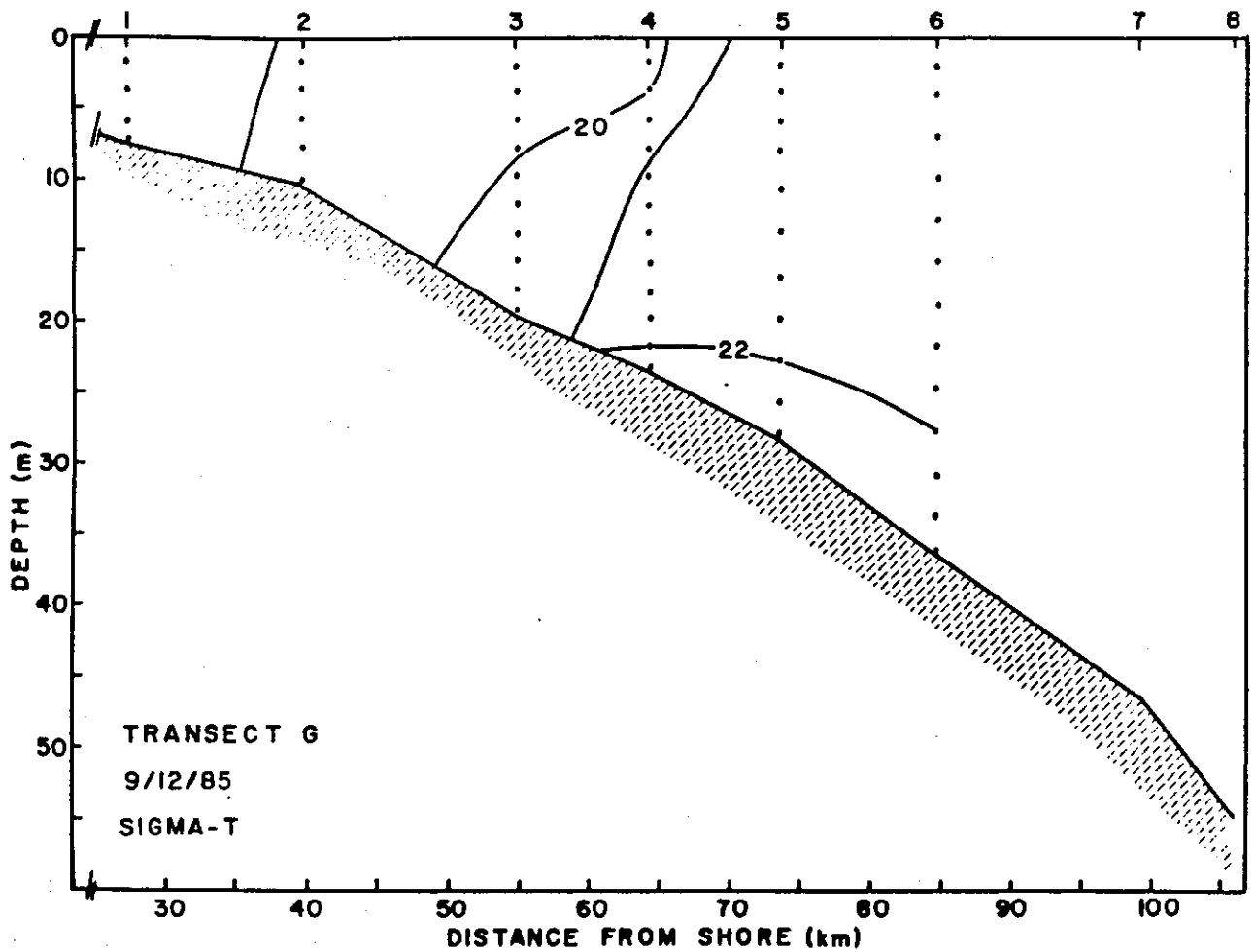
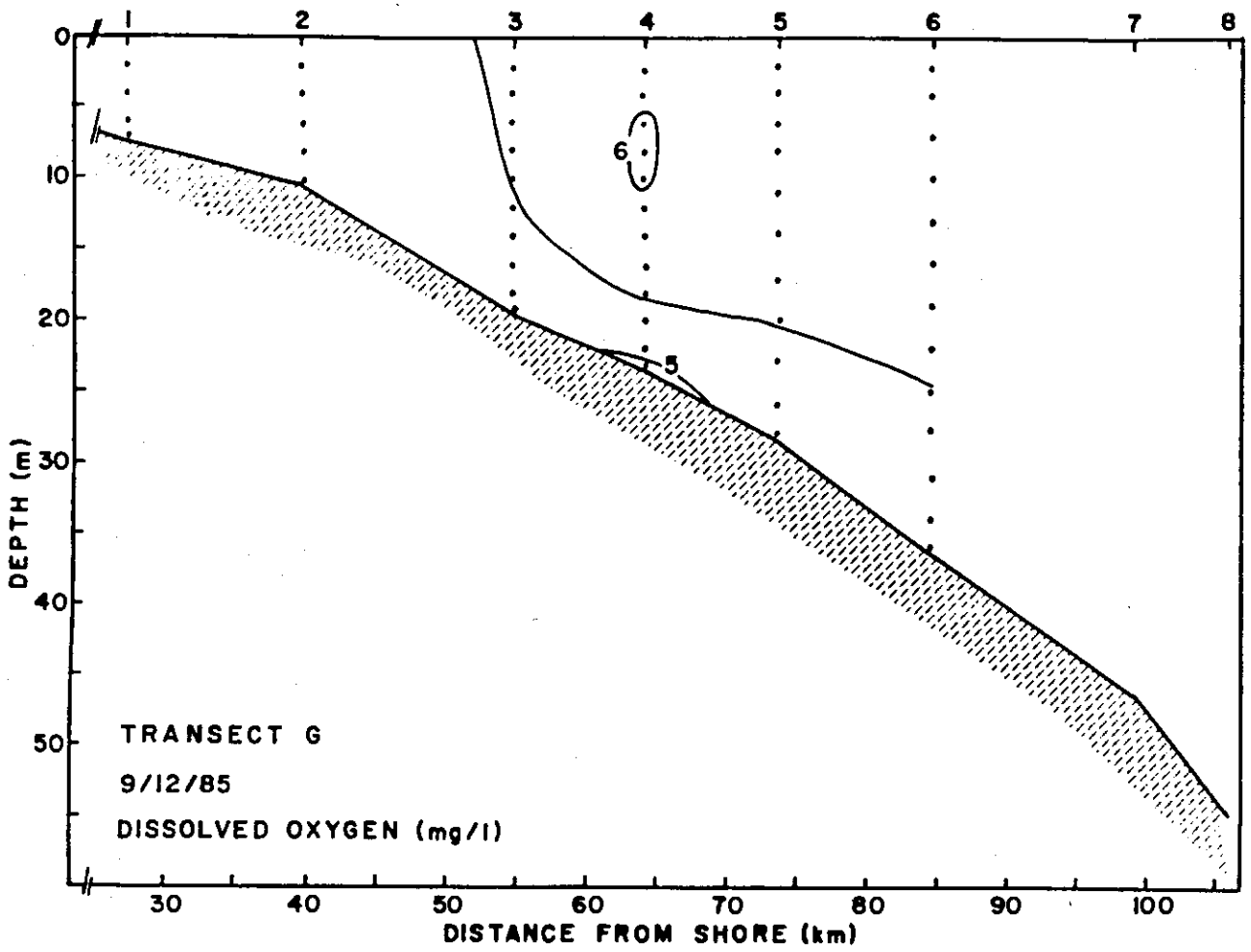
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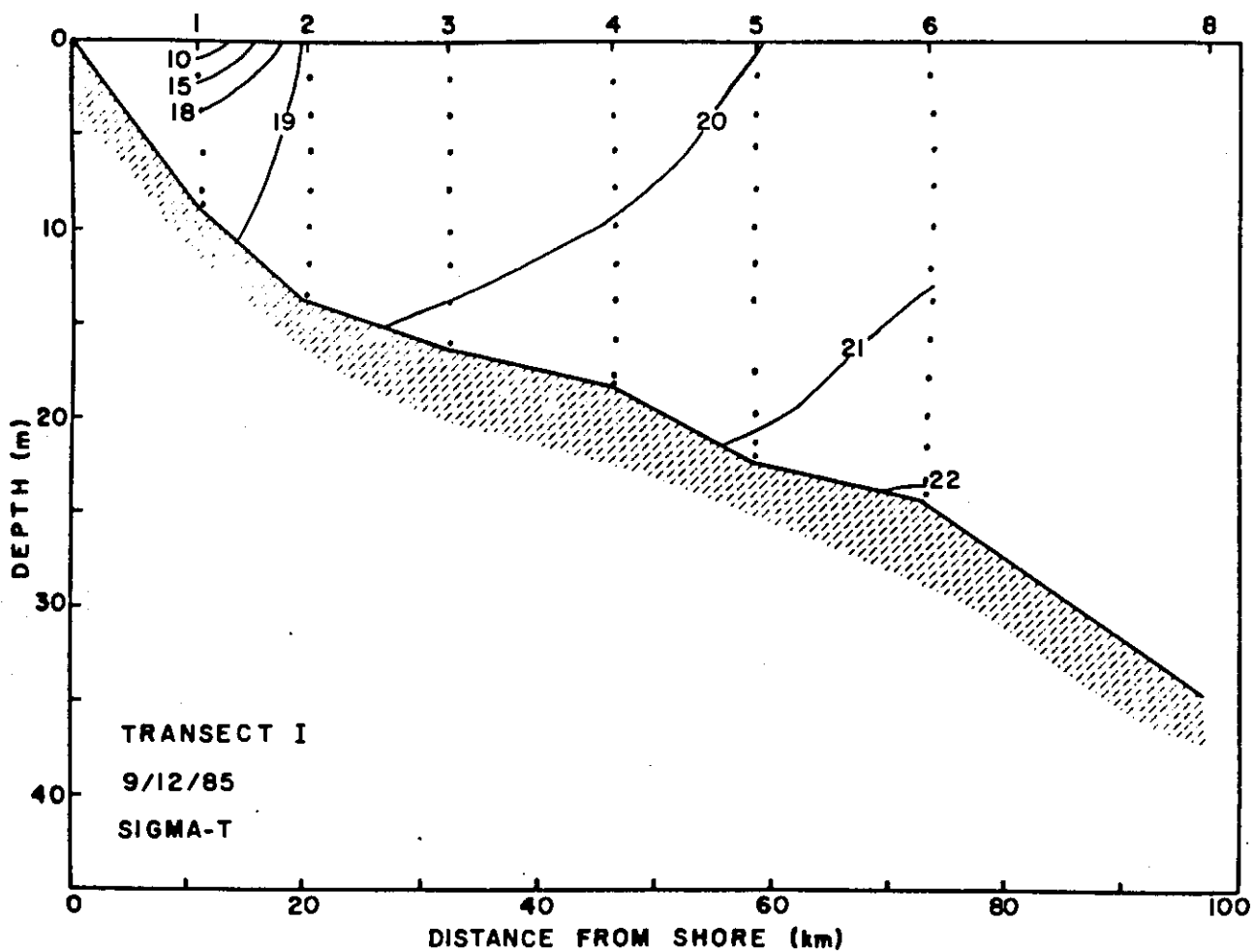
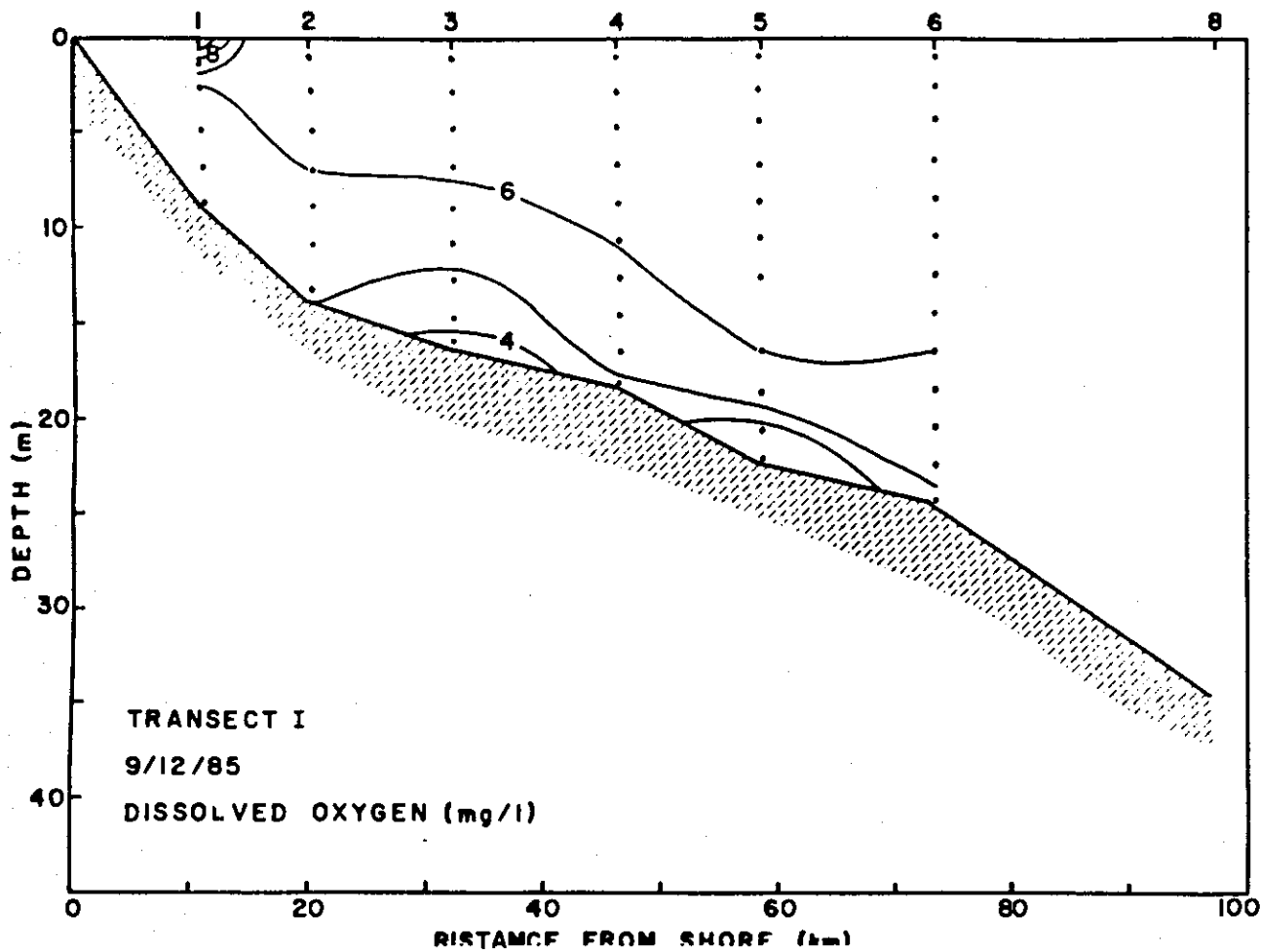
Depth (m)	Ammonia (ug-at/L)	Nitrate (ug-at/L)	Nitrite (ug-at/L)	Phosphate (ug-at/L)	Silicate (ug-at/L)
000.0	03.20	00.10	00.10	00.40	00.50
010.2	09.70	01.60	00.40	00.40	01.20

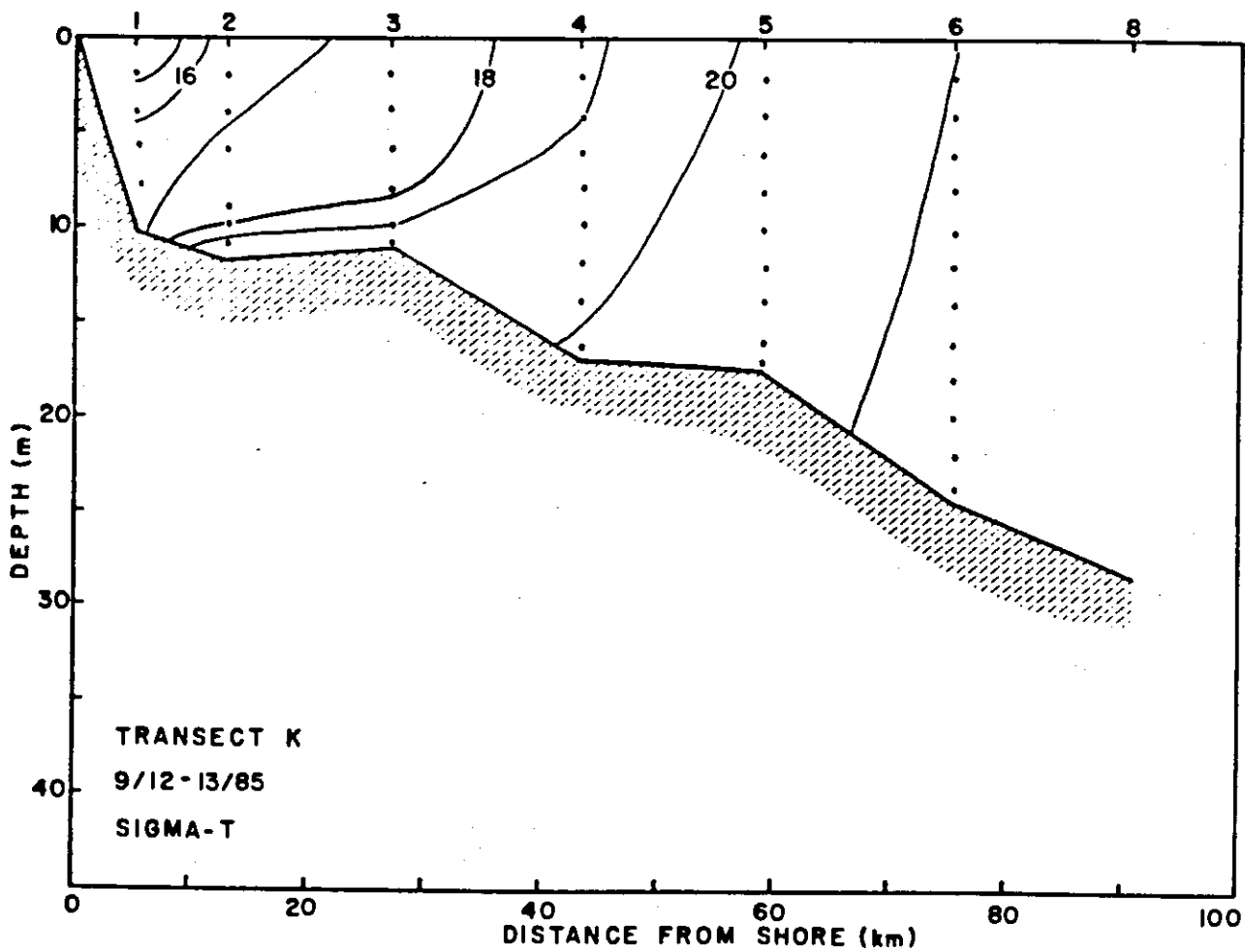
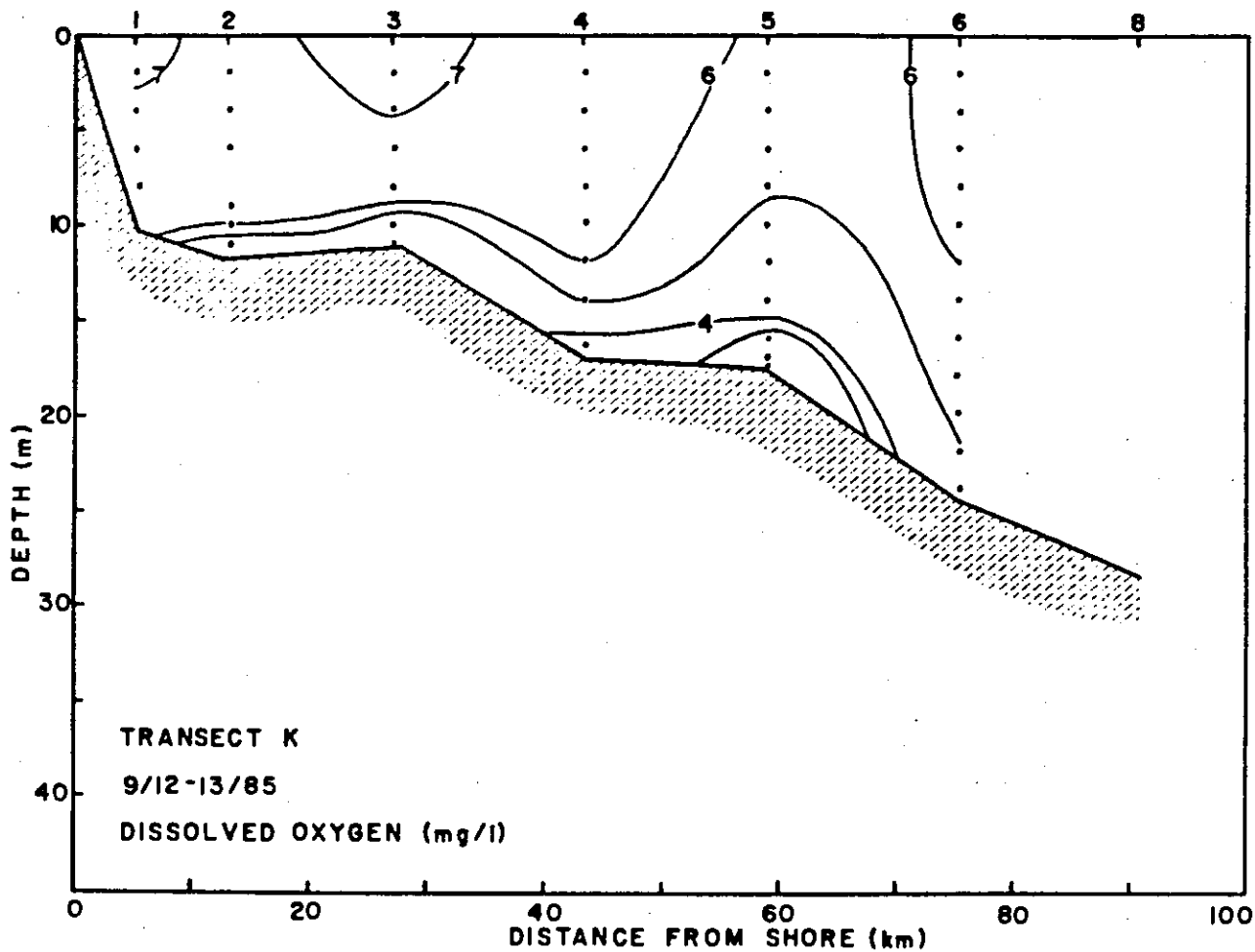








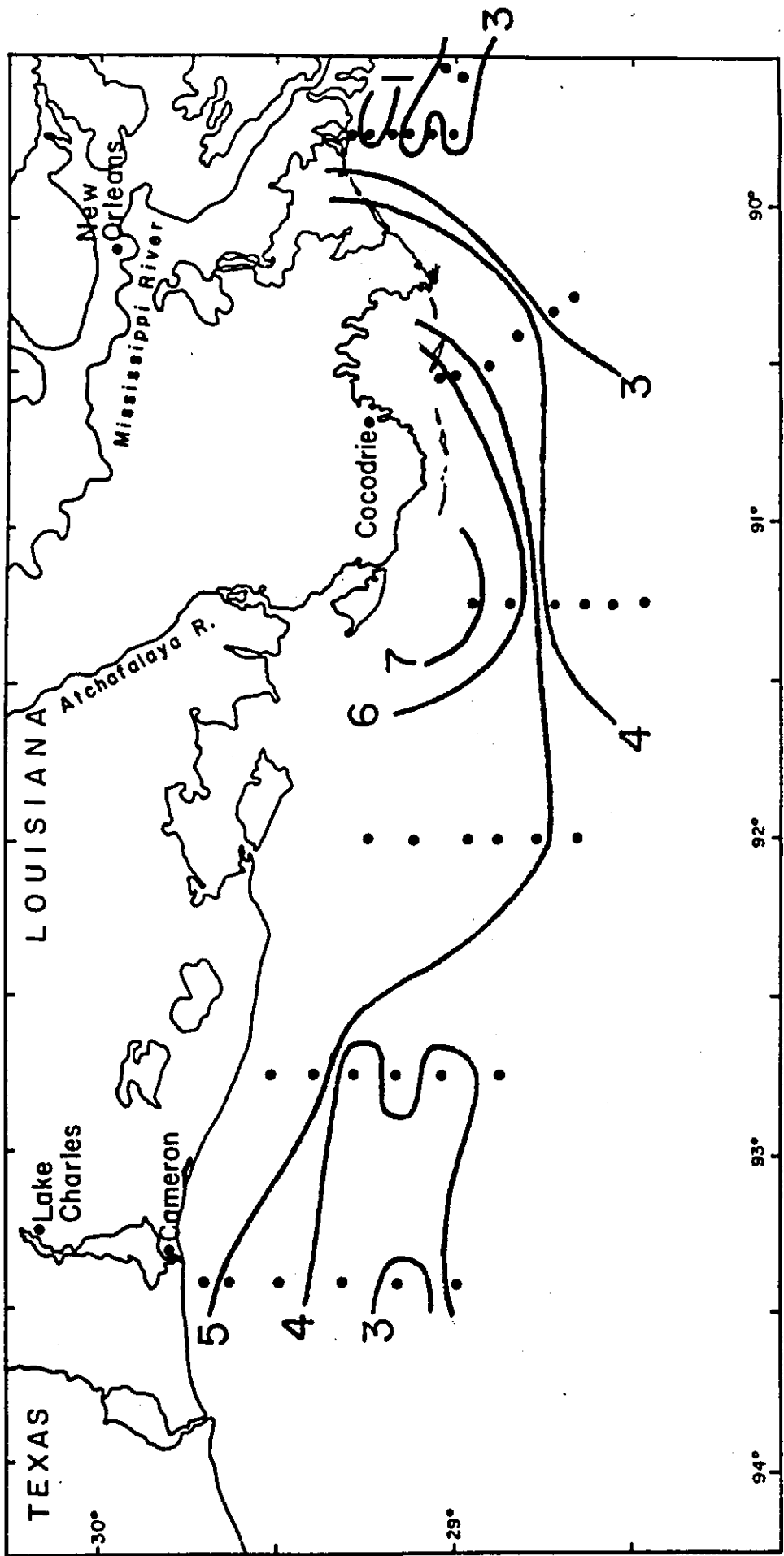






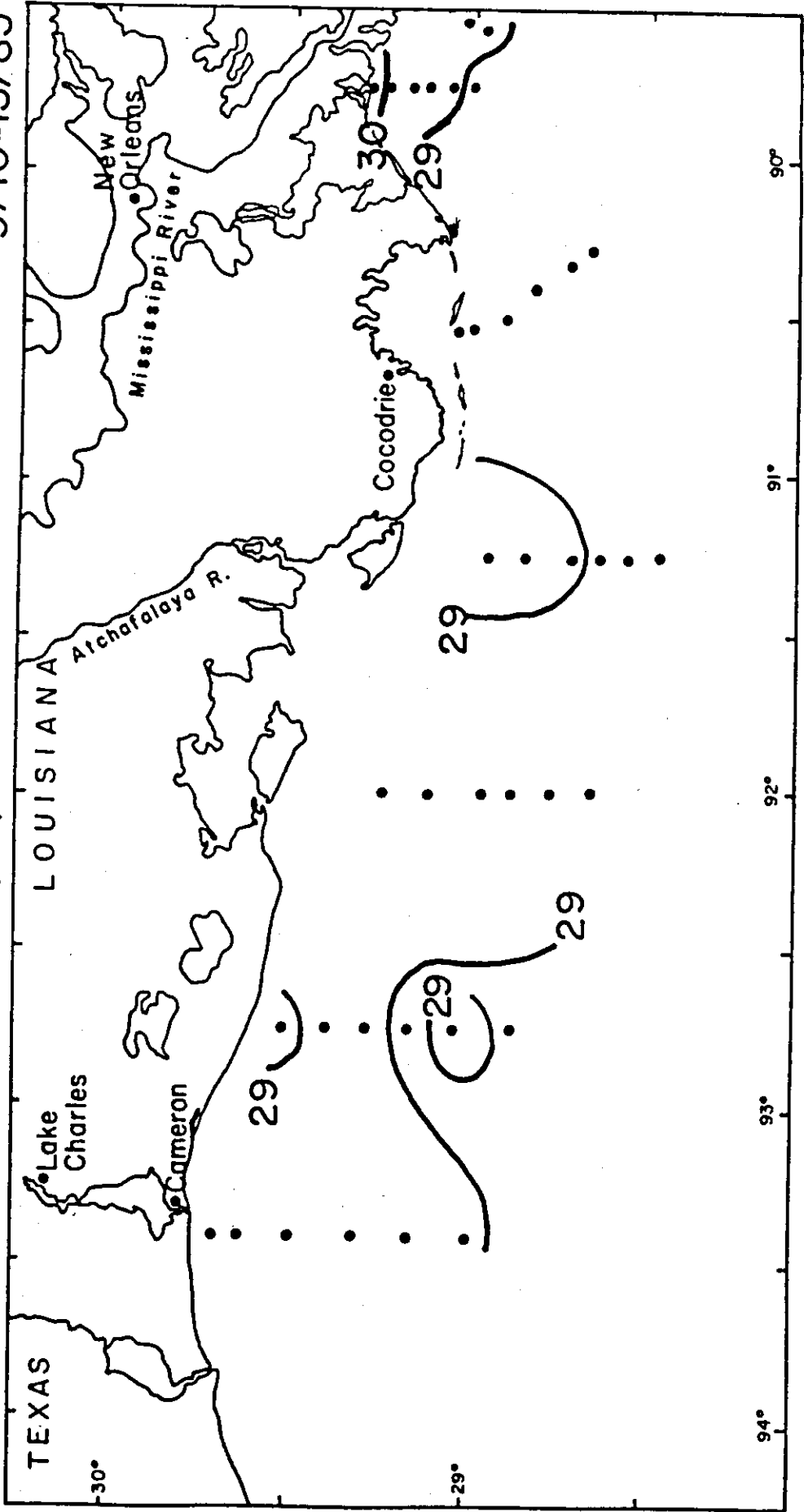
DISSOLVED OXYGEN - BOTTOM (mg/l)

9/10-13/85



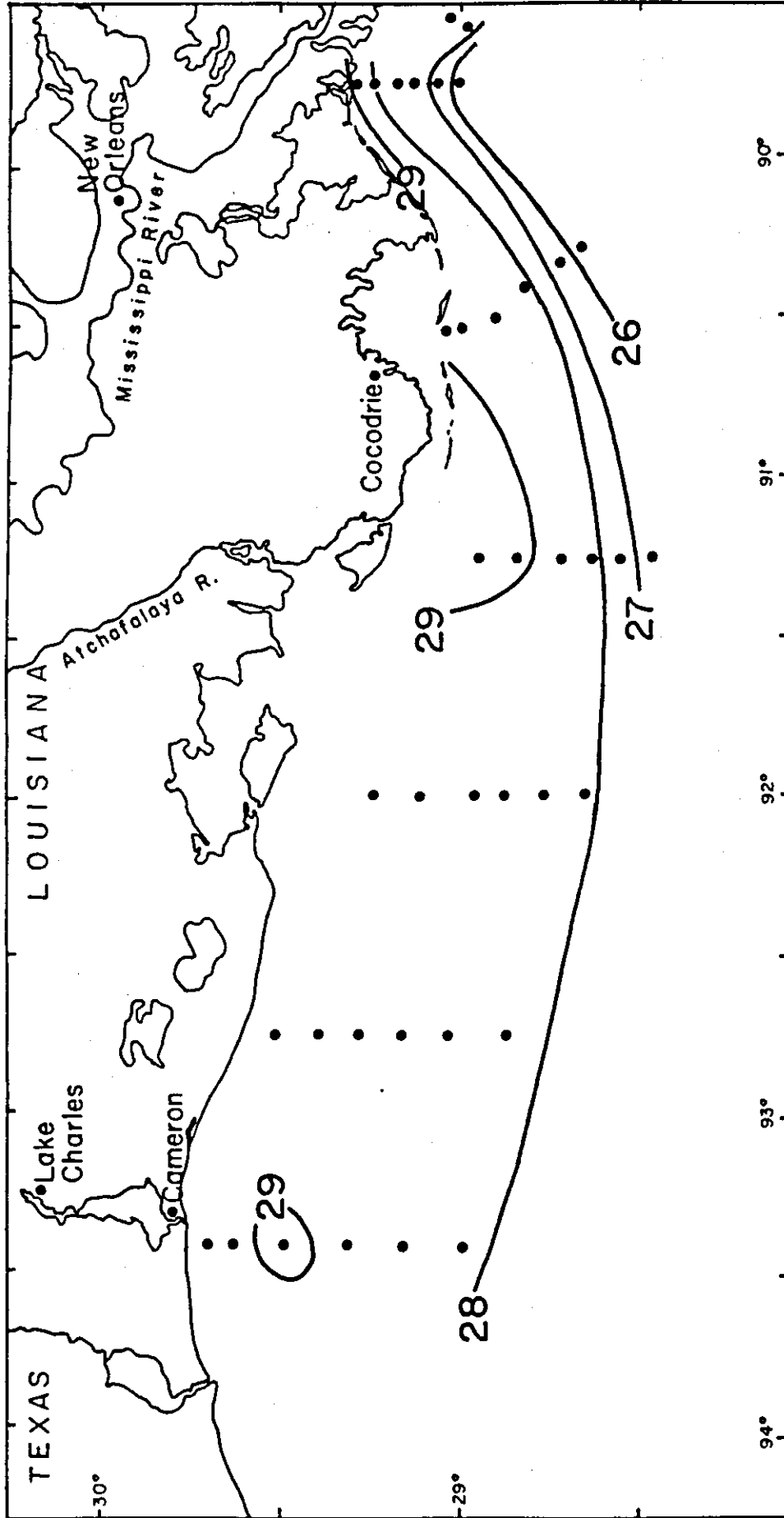
# TEMPERATURE - SURFACE (°C)

9/10-13/85



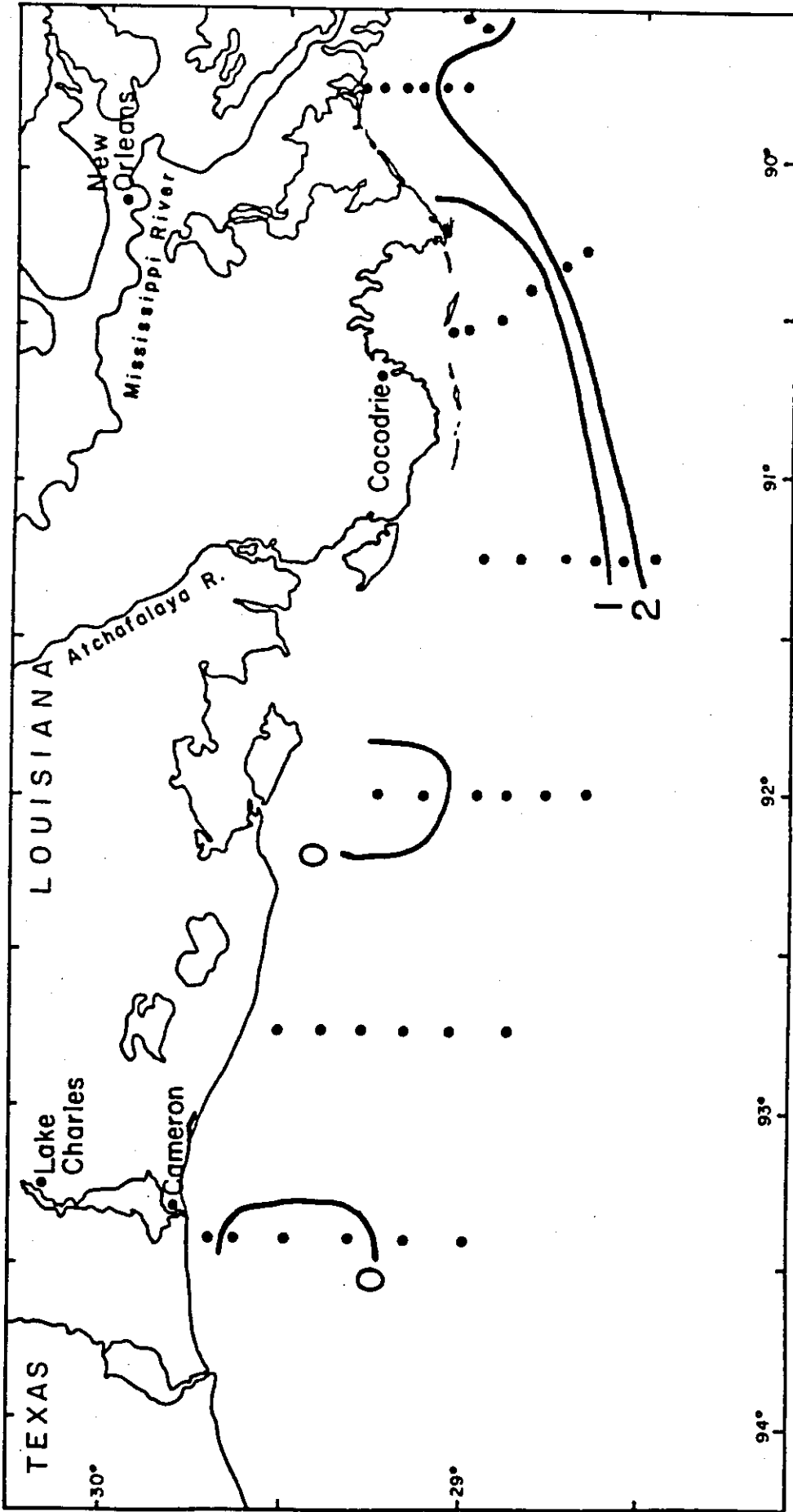
# TEMPERATURE - BOTTOM (°C)

9/10-13/85



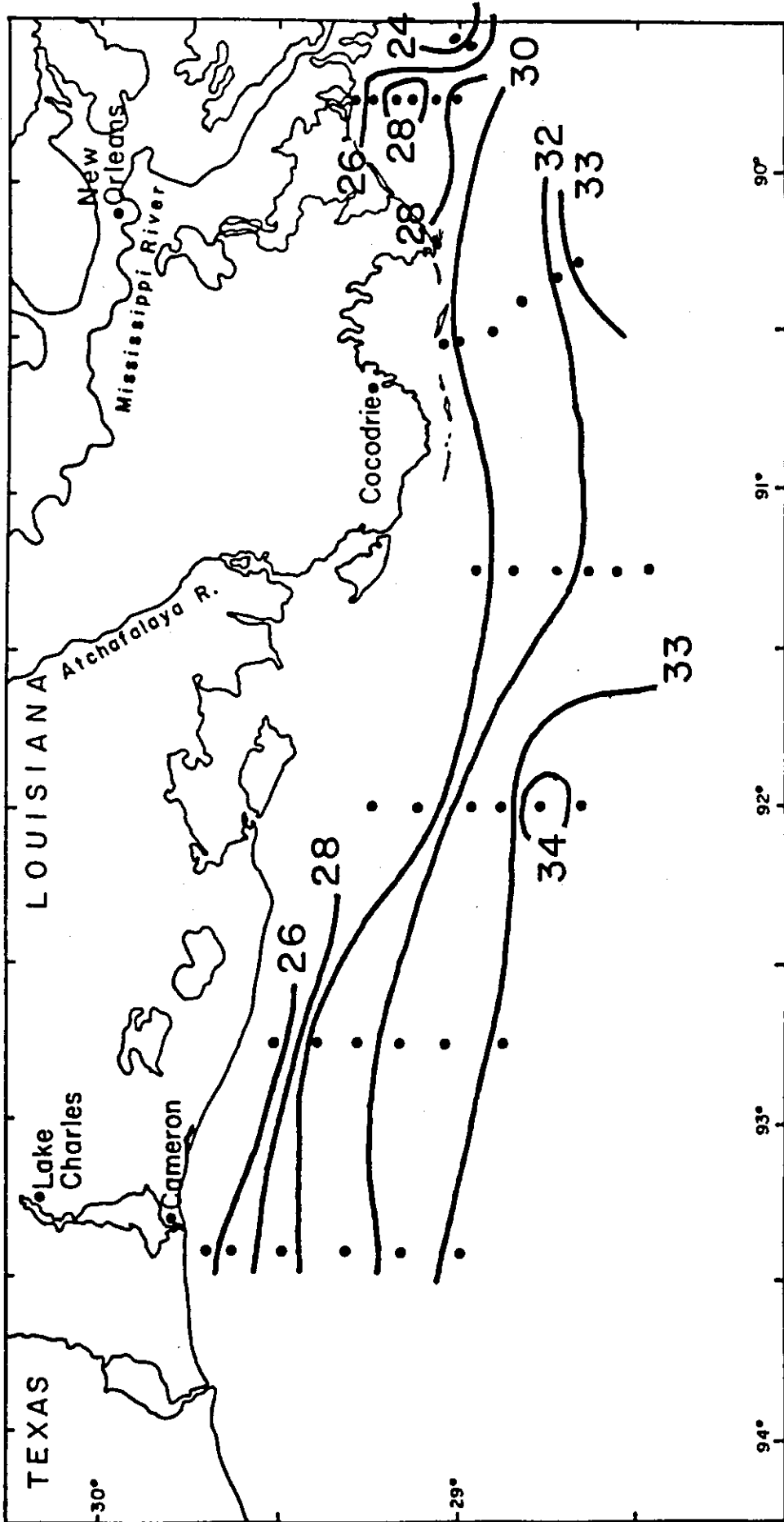
# $\Delta^{\circ}\text{C}$ SURFACE - BOTTOM

9/10-13/85



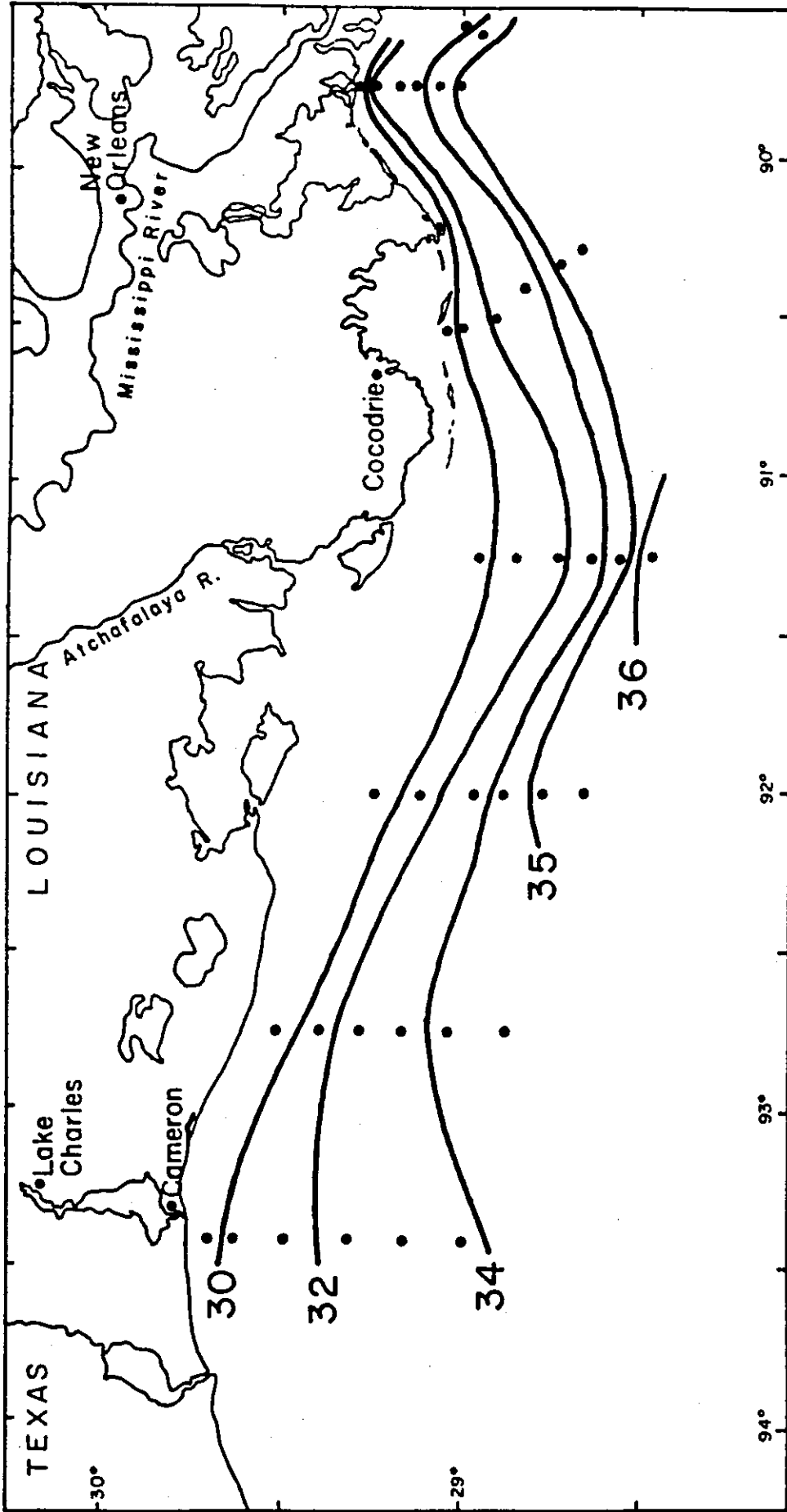
# SALINITY - SURFACE (‰)

9/10-13/85



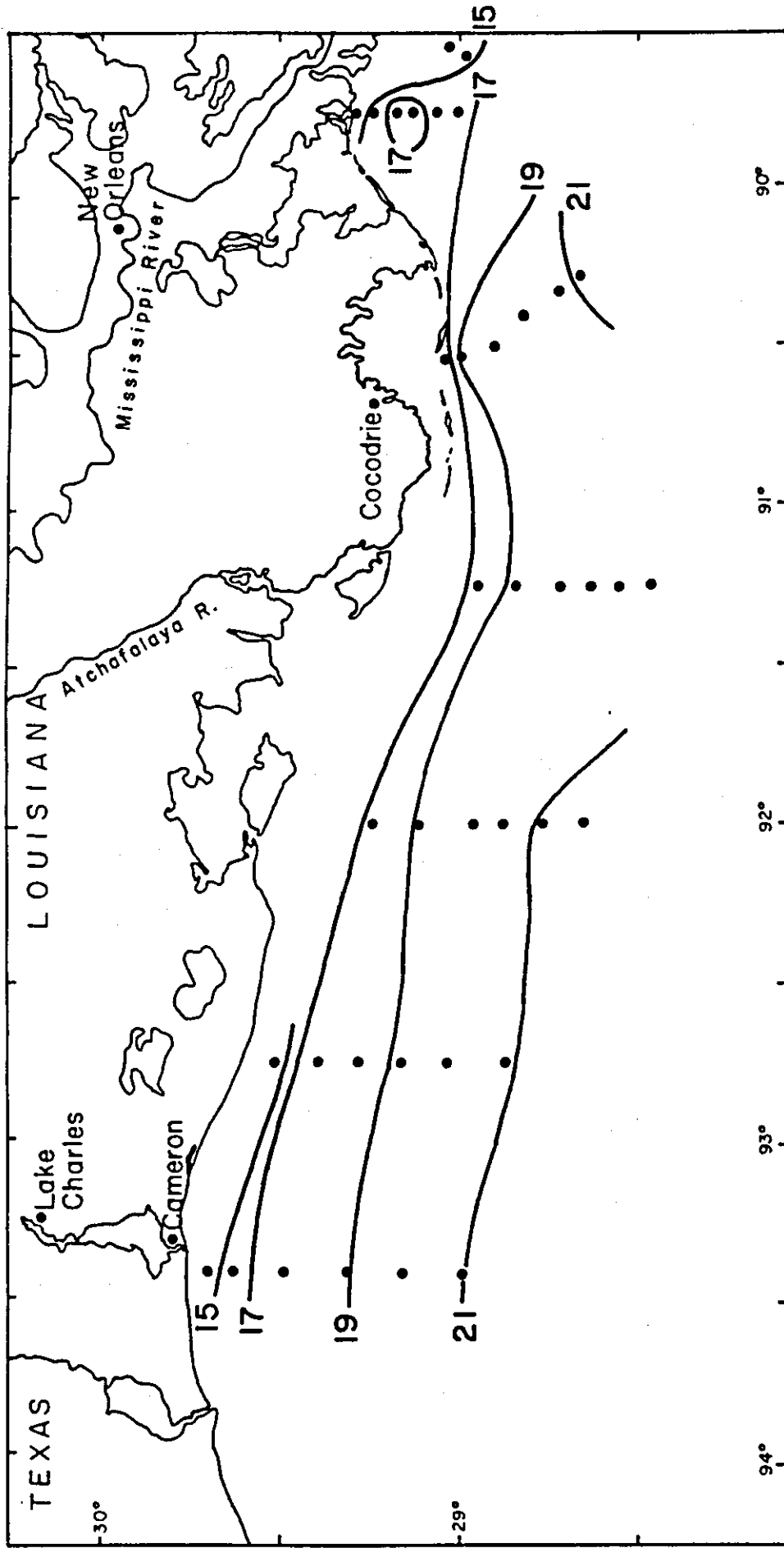
# SALINITY - BOTTOM (‰)

9/10-13/85



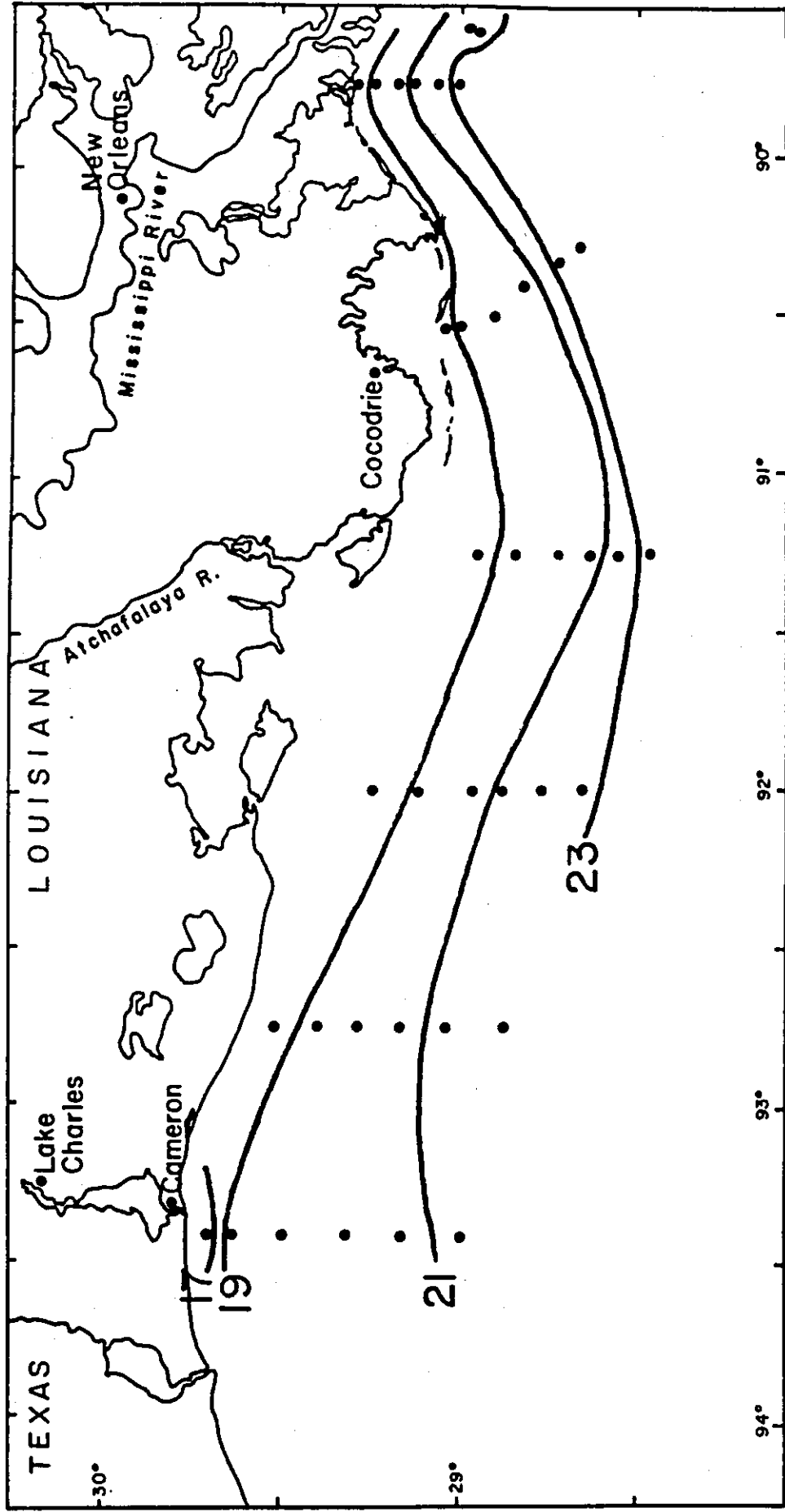
# SIGMA-t - SURFACE

9/10-13/85



# SIGMA - t - BOTTOM

9/10-13/85







CRUISE DATA - TRANSECT A'  
(off Tiger Pass to Southwest Pass)

Station: 04                      Latitude: 28:59.0 N      Hydrolab cast time: 23:10  
Date: 09/10/85                  Longitude: 89:34.0 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
000.0	29.31	24.1	42.5	13.85	09.27	139.5
002.1	29.33	24.3	42.8	14.01	09.28	139.8
003.8	28.85	27.9	47.8	16.84	06.50	99.1
006.0	28.57	30.0	50.6	18.45	05.59	85.8
008.0	28.38	30.4	51.0	18.84	05.19	79.6
010.2	28.00	32.2	53.2	20.27	03.02	46.5
013.0	27.83	33.2	54.5	21.11	04.19	64.6
016.0	27.62	33.8	55.2	21.67	04.78	73.8
018.7	27.59	34.1	55.5	21.85	04.81	74.3
021.8	27.41	34.5	55.9	22.24	04.63	71.4
025.0	27.17	34.8	56.0	22.53	04.41	67.9
027.8	27.16	34.8	56.0	22.53	04.38	67.4
031.3	27.15	34.8	56.0	22.54	04.37	67.2
033.8	27.15	34.9	56.1	22.59	04.36	67.1

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	6.40	2.69	9.09	1.8
033.8	1.02	1.37	2.39	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)
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=====

CRUISE DATA - TRANSECT A  
(off Baratavia Bay)

Station: 01                      Latitude: 29:17.4 N      Hydrolab cast time: 16:30  
Date: 09/10/85                  Longitude: 89:45.0 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
000.0	30.68	14.6	28.2	6.34	11.77	171.9
001.0	30.67	14.5	28.0	6.29	11.96	174.6
002.0	30.69	14.6	28.2	6.33	11.72	171.2
002.9	31.01	17.0	32.4	8.04	06.32	94.1
003.7	29.16	23.9	42.0	13.74	02.52	37.8

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	42.73	5.93	48.66	2.0
003.7	18.51	2.73	21.24	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)

=====

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 02                      Latitude: 29:14.4 N      Hydrolab cast time: 17:20  
Date: 09/10/85                  Longitude: 89:45.0 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
000.0	29.29	26.6	46.3	15.73	06.88	105.0
002.1	29.29	26.6	46.3	15.73	06.85	104.5
004.0	29.28	26.6	46.3	15.73	06.79	103.6
006.0	28.75	27.6	47.2	16.60	04.73	71.8
008.0	28.16	31.1	51.8	19.45	02.82	43.2
009.2	27.81	32.4	53.3	20.50	00.52	8.0

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	3.33	0.43	3.76	2.0
009.2	2.45	0.90	3.35	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)
=====	=====	=====	=====	=====	=====

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 03                      Latitude: 29:10.7 N      Hydrolab cast time: 18:10  
Date: 09/10/85                  Longitude: 89:45.0 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
000.0	29.16	29.0	49.6	17.51	06.91	106.6
002.0	29.17	29.0	49.7	17.56	06.90	106.5
004.0	29.17	29.0	49.8	17.56	06.89	106.3
005.9	29.09	29.8	50.9	18.19	06.65	103.0
008.1	29.09	30.6	52.0	18.74	06.56	102.0
010.0	28.62	30.6	51.6	18.93	06.36	98.1
012.0	28.46	31.2	52.3	19.42	05.40	83.3
013.6	27.80	32.6	53.6	20.67	02.03	31.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.69	0.46	2.15	1.9
013.6	2.64	1.77	4.41	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)



CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 05                      Latitude: 29:04.2 N      Hydrolab cast time: 20:00  
Date: 09/10/85                  Longitude: 89:45.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

```
=====
Depth  Temperature  Salinity  Conductivity  Sigma-t  Dissolved  Percent
(m)    (degrees C)    (ppt)    (mmho/cm)    (mg/L)   Oxygen    Oxygen
                                           Saturation
=====
```

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved Oxygen (mg/L)	Percent Oxygen Saturation
000.0	29.25	27.6	47.6	16.45	07.44	114.0
002.0	29.28	27.7	47.9	16.55	07.41	113.7
004.0	29.24	29.8	51.0	18.14	06.68	103.7
006.0	28.85	30.8	52.1	19.03	06.57	101.9
007.9	28.66	31.1	52.3	19.25	06.54	101.2
010.1	28.62	31.0	52.1	19.21	06.56	101.4
011.9	28.58	31.2	52.4	19.38	06.53	101.0
014.0	28.51	31.2	52.3	19.40	06.41	99.0
016.2	28.41	31.5	52.6	19.66	05.79	89.4
018.0	28.36	31.6	52.7	19.73	05.65	87.2
020.0	28.27	32.2	53.5	20.20	05.34	82.6
021.9	28.04	32.5	53.7	20.54	04.67	72.0
024.1	27.65	33.6	54.9	21.49	03.80	58.6
026.0	27.46	34.0	55.2	21.83	02.87	44.2
028.0	27.21	34.4	55.6	22.24	02.28	35.0

CHLOROPHYLL DATA

```
=====
Depth  Chlorophyll  Phaeopigments  Total  Acid
(m)    (ug/L)       (ug/L)         Pigments  Ratio
                                           (Fo/Fa)
=====
```

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.68	0.61	2.29	1.8
028.0	1.80	1.69	3.49	1.6

NUTRIENT DATA

```
=====
Depth  Ammonia  Nitrate  Nitrite  Phosphate  Silicate
(m)    (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L)
=====
```

CRUISE DATA - TRANSECT A  
(off Barataria Bay)

Station: 06                      Latitude: 29:00.5 N      Hydrolab cast time: 21:10  
Date: 09/10/85                  Longitude: 89:45.0 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
000.0	29.01	28.1	48.2	16.90	07.11	108.8
002.2	29.06	28.2	48.3	16.94	07.07	108.4
004.0	29.10	29.0	49.7	17.58	06.86	105.7
006.2	29.04	30.5	51.8	18.70	06.59	102.3
007.9	29.07	30.9	52.5	19.02	06.71	104.5
010.0	29.01	31.3	53.0	19.31	06.56	102.3
012.8	28.60	31.6	53.1	19.71	06.44	99.9
016.0	28.35	32.0	53.3	20.06	05.88	91.0
018.8	28.31	32.2	53.6	20.24	05.21	80.6
022.2	28.21	32.8	54.2	20.66	04.69	72.7
025.0	27.93	33.1	54.5	21.02	04.78	73.8
028.1	27.34	34.0	55.1	21.86	04.55	69.9
031.2	27.17	34.9	56.2	22.59	04.74	73.0
034.9	26.76	35.2	56.2	22.98	04.62	70.7
038.7	26.25	35.7	56.3	23.52	03.43	52.2

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.83	0.27	1.10	1.9
038.7	0.93	1.00	1.93	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)
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CRUISE DATA - TRANSECT C  
(off Cat Island Pass, Cocodrie)

Station: 01                      Latitude: 29:03.4 N      Hydrolab cast time: 10:40  
Date: 09/11/85                  Longitude: 90:31.9 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.98	28.1	48.3	16.96	06.54	100.1
002.0	28.98	28.1	48.3	16.96	06.51	99.6
003.0	28.94	28.1	48.2	16.97	06.34	97.0
003.8	28.94	28.3	48.4	17.08	06.00	91.8

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	6.08	0.78	6.86	2.0
003.8	5.28	1.35	6.63	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)
=====	=====	=====	=====	=====	=====



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

Station: 05                      Latitude: 28:54.9 N      Hydrolab cast time: 09:10  
Date: 09/11/85                      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
000.0	28.58	31.7	53.2	19.77	05.86	90.9
001.8	28.60	31.7	53.2	19.77	05.86	90.9
010.2	28.58	31.7	53.2	19.77	05.86	90.9
004.0	28.59	31.6	53.0	19.71	05.84	90.5
006.0	28.59	31.7	53.2	19.77	05.85	90.7
007.8	28.58	31.8	53.2	19.83	05.86	90.9
012.0	28.59	31.8	53.3	19.82	05.81	90.2
014.0	28.61	32.0	53.6	19.99	04.96	77.1
015.0	28.56	32.0	53.6	20.00	04.70	73.0

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.06	0.37	1.43	1.8
015.0	2.00	0.86	2.86	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)
--------------	----------------------	----------------------	----------------------	------------------------	-----------------------

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

Station: 07                      Latitude: 28:49.9 N      Hydrolab cast time: 08:00  
Date: 09/11/85                  Longitude: 90:23.5 W     Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

=====

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	28.50	31.4	52.5	19.52	06.32	97.7
002.0	28.51	31.4	52.5	19.52	06.28	97.1
003.9	28.49	31.3	52.4	19.47	06.26	96.7
006.0	28.49	31.4	52.5	19.52	06.25	96.6
007.9	28.51	31.4	52.5	19.52	06.26	96.8
010.1	28.60	31.7	53.2	19.77	06.27	97.3
012.0	28.62	32.0	53.5	19.93	06.19	96.2
014.0	28.67	32.1	53.8	20.02	06.22	96.8
015.9	28.43	32.5	54.2	20.43	05.31	82.5
018.1	28.30	32.7	54.2	20.58	04.41	68.4
020.1	28.30	32.7	54.2	20.58	04.41	68.4

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	0.73	0.11	0.84	2.0
020.1	3.81	1.08	4.89	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)
=====	=====	=====	=====	=====	=====

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

Station: 8A                      Latitude: 28:44.0 N      Hydrolab cast time: 06:55  
Date: 09/11/85                  Longitude: 90:19.5 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
000.0	28.53	32.0	53.5	20.01	06.21	96.4
002.0	28.53	32.0	53.4	19.95	06.23	96.6
004.0	28.53	32.0	53.5	20.01	06.21	96.4
005.9	28.52	32.0	53.4	19.96	06.20	96.2
008.0	28.26	32.7	54.2	20.59	06.07	94.1
010.1	28.18	32.7	54.1	20.61	05.83	90.2
011.9	28.18	32.8	54.3	20.72	05.85	90.6
013.8	27.95	33.2	54.6	21.07	05.43	84.0
015.9	28.08	33.6	55.4	21.37	05.57	86.6
018.0	28.83	34.4	57.3	21.72	06.02	95.2
020.0	28.86	34.6	57.6	21.82	05.96	94.4
022.2	27.76	34.4	56.1	22.02	05.13	79.6
024.0	26.93	34.9	56.0	22.71	03.80	58.3
025.4	26.41	35.2	55.8	23.08	02.74	41.7

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.49	0.08	0.57	2.0
025.4	1.13	0.98	2.11	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)
--------------	----------------------	----------------------	----------------------	------------------------	-----------------------



CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 01                      Latitude: 28:58.0 N    Hydrolab cast time: 15:05  
Date: 09/11/85                      Longitude: 91:15.0 W    Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

```
=====
Depth  Temperature  Salinity  Conductivity  Dissolved  Percent
(m)    (degrees C)    (ppt)    (mmho/cm)    Sigma-t    Oxygen    Oxygen
                                           (mg/L)    Saturation
=====
000.0      29.22      29.4      50.3      17.82      07.13      110.4
002.0      29.23      29.8      51.0      18.14      07.13      110.7
003.0      29.14      29.8      50.8      18.12      07.16      110.9
004.1      29.09      29.8      50.8      18.13      07.18      111.1
=====
```

CHLOROPHYLL DATA

```
=====
Depth  Chlorophyll  Phaeopigments  Total  Acid
(m)    (ug/L)      (ug/L)         Pigments  Ratio
                                           (ug/L)    (Fo/Fa)
=====
000.0      4.17      0.90          5.07      1.9
004.1      4.86      1.03          5.89      1.9
=====
```

NUTRIENT DATA

```
=====
Depth  Ammonia  Nitrate  Nitrite  Phosphate  Silicate
(m)    (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L) (ug-at/L)
=====
```

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 02                      Latitude: 28:51.5 N      Hydrolab cast time: 16:05  
Date: 09/11/85                  Longitude: 91:15.0 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
000.0	29.15	31.2	52.9	19.16	06.40	99.9
001.9	29.17	31.1	52.8	19.10	06.43	110.4
004.0	29.10	31.2	52.8	19.18	06.48	101.1
006.0	29.06	31.1	52.7	19.13	06.52	101.6
007.3	29.04	31.2	52.8	19.19	06.57	102.4

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.15	0.30	1.45	1.9
007.3	1.29	0.37	1.66	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)







CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 04                      Latitude: 28:35.0 N      Hydrolab cast time: 18:50  
Date: 09/11/85                  Longitude: 91:15.0 W      Secchi disk depth (m): ##.##

HYDROGRAPHIC DATA

Depth (m)	Temperature (degrees C)	Salinity (ppt)	Conductivity (mmho/cm)	Sigma-t	Dissolved	Percent
					Oxygen (mg/L)	Oxygen Saturation
000.0	29.00	31.8	53.6	19.65	06.53	102.0
002.0	29.00	31.7	53.5	19.59	06.19	96.7
004.1	29.00	31.8	53.6	19.65	06.17	96.4
006.0	29.00	31.7	53.5	19.59	06.17	96.4
008.0	28.98	31.7	53.5	19.60	06.17	96.3
009.9	28.85	32.0	53.8	19.86	06.07	94.7
012.1	28.66	32.8	54.7	20.53	05.30	82.8
013.8	28.57	32.8	54.8	20.61	05.05	78.8
016.0	28.51	32.8	54.7	20.63	04.62	72.0
018.0	28.36	33.1	54.8	20.84	03.75	28.4
020.0	28.28	33.3	55.1	21.03	03.37	52.4
022.0	28.21	33.4	55.2	21.16	03.41	53.0
024.0	28.16	33.7	55.6	21.40	03.68	57.3
026.0	28.02	34.0	55.8	21.67	03.20	49.8
028.0	27.87	34.4	56.3	22.05	03.35	52.1
029.5	27.76	34.8	56.6	22.31	03.35	52.1

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total	Acid
			Pigments (ug/L)	Ratio (Fo/Fa)
000.0	0.65	0.17	0.82	1.9
029.5	0.68	0.46	1.14	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)

CRUISE DATA - TRANSECT E  
(off Point au Fer Island, Fourleague Bay)

Station: 05                      Latitude: 28:29.0 N      Hydrolab cast time: 20:00  
Date: 09/11/85                      Longitude: 91:15.0 W      Secchi disk depth (m): ##.##

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
000.0	28.71	31.9	53.5	19.85	06.14	95.5
002.0	28.72	32.0	53.7	19.95	06.16	95.9
004.9	28.72	31.9	53.5	19.84	06.12	95.2
008.1	28.57	32.0	53.6	20.00	06.04	93.8
011.0	28.51	32.9	54.8	20.68	06.09	95.0
014.0	28.50	33.1	55.0	20.80	06.04	94.2
017.0	28.20	33.4	55.2	21.17	04.87	75.7
020.0	28.16	33.8	55.7	21.46	04.92	76.6
023.0	28.04	34.1	56.0	21.72	04.57	71.1
026.0	28.03	34.8	56.9	22.23	04.88	76.2
029.0	27.46	35.3	57.0	22.79	04.27	66.2
032.0	27.08	35.5	56.9	23.06	04.25	65.5
035.0	26.86	35.5	56.7	23.18	04.20	64.5
038.2	26.84	35.8	57.0	23.36	04.18	64.3
041.4	25.92	36.0	56.4	23.84	03.87	58.6

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CHLOROPHYLL DATA

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=====
```

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.44	0.14	0.58	1.9
041.4	0.59	0.57	1.16	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)
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=====
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CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 01            Latitude: 29:15.5 N    Hydrolab east time: 06:00  
Date: 09/12/85        Longitude: 92:00.0 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
000.0	28.58	29.4	49.7	18.01	05.98	91.5
002.0	28.58	29.4	49.7	18.01	05.99	91.6
004.1	28.61	29.4	49.7	18.00	05.96	91.2
006.0	28.61	29.4	49.8	18.05	05.94	91.0
007.4	28.60	29.4	49.7	18.00	05.97	91.4

CHLOROPHYLL DATA

```
=====
```

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	3.50	0.71	4.21	1.8
007.4	3.85	0.77	4.62	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)

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=====
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CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 02                      Latitude: 29:08.0 N      Hydrolab cast time: 04:55  
Date: 09/12/85                  Longitude: 92:00.0 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
000.0	28.56	31.0	52.0	19.22	05.85	90.3
002.0	28.58	30.9	52.0	19.16	05.84	90.2
003.8	28.58	30.9	52.0	19.16	05.86	90.4
005.9	28.60	31.0	52.1	19.21	05.86	90.5
008.0	28.60	31.1	52.3	19.32	05.90	91.2
010.8	28.59	31.0	52.1	19.22	05.93	91.6

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.19	0.43	1.62	1.8
010.8	1.15	0.46	1.61	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)

CRUISE DATA - TRANSECT G  
(off Vermilion Bay, Marsh Island)

Station: 03                      Latitude: 28:59.0 N      Hydrolab cast time: 03:40  
Date: 09/12/85                  Longitude: 92:00.0 W      Secchi disk depth (m): ##.##

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
000.0	28.65	32.0	53.6	19.97	06.07	94.4
002.0	28.65	32.0	53.6	19.97	06.08	94.6
003.9	28.63	32.0	53.6	19.98	06.09	94.7
006.0	28.65	32.0	53.6	19.97	06.09	94.7
008.0	28.63	32.1	53.7	20.04	06.09	94.7
010.0	28.62	32.0	53.6	19.98	06.08	94.5
012.0	28.54	32.2	53.9	20.17	06.05	94.0
014.0	28.44	32.4	54.0	20.31	05.80	90.1
016.0	28.43	32.5	54.1	20.37	05.72	88.8
018.0	28.42	32.4	53.9	20.32	05.71	88.6
020.0	28.40	32.6	54.2	20.49	05.56	86.4

CHLOROPHYLL DATA

```
=====
```

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.59	0.09	0.68	2.0
020.0	1.30	0.56	1.86	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)
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=====
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CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 01                      Latitude: 29:32.0 N      Hydrolab cast time: 11:35  
Date: 09/12/85                  Longitude: 92:45.0 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
000.0	29.44	18.1	33.2	9.34	09.50	138.5
002.1	29.30	24.8	43.6	14.39	07.35	111.0
003.7	28.57	29.4	49.7	18.01	06.04	92.4
006.0	28.57	29.7	50.2	18.28	05.84	89.5
008.2	28.57	29.8	50.3	18.34	05.80	89.0
010.6	28.56	29.8	50.3	18.34	05.29	81.1

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	19.87	2.44	22.31	2.0
010.6	2.04	0.56	2.60	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)



CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 03                      Latitude: 29:17.7 N      Hydrolab cast time: 13:35  
Date: 09/12/85                  Longitude: 92:45.0 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
000.0	28.96	32.5	54.6	20.22	06.11	95.8
001.8	28.97	32.3	54.4	20.10	06.10	95.6
003.9	28.65	32.6	54.4	20.36	06.12	95.5
006.2	28.61	32.5	54.3	20.32	06.12	95.4
008.0	28.55	32.4	54.1	20.28	06.11	95.1
010.1	28.58	32.4	54.1	20.27	05.60	87.2
012.0	28.58	32.6	54.3	20.38	05.89	91.8
013.8	28.64	32.7	54.6	20.48	04.58	71.5
016.0	28.61	32.7	54.6	20.49	04.18	65.2
017.2	28.57	32.8	54.8	20.61	03.68	57.4

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.01	0.23	1.24	1.9
017.2	3.19	0.99	4.18	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)
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CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 04                      Latitude: 29:10.5 N      Hydrolab cast time: 14:45  
Date: 09/12/85                  Longitude: 92:45.0 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
000.0	29.08	31.8	53.8	19.68	06.10	95.5
002.0	29.10	31.8	53.8	19.68	06.10	95.5
004.0	29.07	31.8	53.8	19.68	06.12	95.8
006.0	28.81	31.9	53.6	19.82	06.15	95.8
008.1	28.92	31.9	53.7	19.78	06.16	96.2
010.0	28.67	32.0	53.7	19.97	06.07	94.4
012.0	28.66	32.2	53.9	20.08	05.95	92.6
013.9	28.65	32.4	54.2	20.25	05.61	87.4
016.0	28.62	32.6	54.4	20.37	05.46	85.1
018.1	28.62	32.7	54.6	20.48	05.33	83.2
019.7	28.58	32.7	54.6	20.50	04.97	77.5

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.18	0.22	1.40	2.0
019.7	2.15	0.79	2.94	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)
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CRUISE DATA - TRANSECT I  
(off Grand Lake)

Station: 05                      Latitude: 29:03.0 N      Hydrolab cast time: 16:05  
Date: 09/12/85                  Longitude: 92:45.0 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
000.0	28.94	32.2	54.2	20.00	06.11	95.6
002.0	29.00	32.4	54.6	20.15	06.14	96.3
003.6	29.00	32.4	54.6	20.15	06.15	96.5
005.7	28.94	32.4	54.5	20.17	06.15	96.4
008.1	28.69	32.8	54.8	20.52	06.12	95.7
009.8	28.55	32.8	54.7	20.82	06.14	95.8
012.0	28.54	32.9	54.8	20.68	06.14	95.8
013.9	28.64	33.0	55.0	20.70	06.14	96.0
015.9	28.69	32.9	55.0	20.63	06.13	95.9
017.9	28.73	33.0	55.1	20.68	06.06	94.9
020.0	28.71	33.2	55.3	20.79	05.75	90.1
022.0	28.04	34.2	56.1	21.77	03.38	52.6
024.1	28.02	34.3	56.3	21.89	03.37	52.5

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	0.84	0.15	0.99	2.0
024.1	1.76	0.72	2.48	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)





CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 01                      Latitude: 29:42.4 N      Hydrolab cast time: 03:10  
Date: 09/13/85                  Longitude: 93:25.0 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
000.0	28.76	25.0	43.4	14.71	07.47	111.9
002.1	28.76	25.3	43.8	14.92	07.40	111.0
004.0	28.60	26.6	45.6	15.94	06.92	104.3
006.0	28.46	27.0	46.0	16.25	06.78	102.1
007.7	28.24	27.1	46.0	16.42	06.05	90.8

CHLOROPHYLL DATA

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	13.23	2.88	16.11	1.9
007.7	8.84	2.25	11.09	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)

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 02                      Latitude: 29:38.5 N      Hydrolab cast time: 02:30  
Date: 09/13/85                  Longitude: 93:25.0 W      Secchi disk depth (m): ##.##

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
000.0	28.49	27.0	46.1	16.24	06.22	93.7
001.9	28.54	27.1	46.3	16.33	06.20	93.6
004.1	29.04	27.9	48.0	16.78	06.33	96.9
006.1	29.00	29.1	49.7	17.66	06.64	102.7
007.9	28.71	29.1	49.4	17.75	06.71	102.7
009.8	28.64	29.4	49.8	17.99	06.05	92.7
010.8	28.70	30.8	52.0	19.07	04.80	74.2

CHLOROPHYLL DATA  
=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	3.05	0.56	3.61	2.0
010.8	4.05	1.20	5.25	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)

CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 03                      Latitude: 29:29.3 N      Hydrolab cast time: 01:15  
Date: 09/13/85                  Longitude: 93:25.0 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
000.0	28.90	28.6	48.8	17.31	07.32	112.1
002.1	28.90	28.6	48.8	17.31	07.33	112.3
003.7	28.90	28.5	48.7	17.26	07.33	112.2
006.0	28.44	28.6	48.5	17.50	06.45	98.0
008.0	28.56	28.8	48.8	17.58	06.15	93.8
010.0	29.04	30.9	52.4	19.03	04.71	73.3
010.9	29.08	31.2	52.8	19.18	04.29	66.9

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	7.63	0.74	8.37	2.0
010.9	5.26	1.48	6.74	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)

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CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 04                      Latitude: 29:19.0 N      Hydrolab cast time: 00:00  
Date: 09/13/85                  Longitude: 93:25.0 W      Secchi disk depth (m): ##.##

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
000.0	28.83	30.8	52.0	18.98	06.25	96.8
001.9	28.88	30.8	52.1	18.96	06.25	96.9
004.0	28.82	30.8	52.1	19.04	06.25	96.8
006.0	28.78	30.9	52.2	19.10	06.22	96.4
008.0	28.71	31.0	52.2	19.18	06.12	94.7
010.1	28.66	31.1	52.3	19.25	06.04	93.4
012.0	28.66	31.1	52.3	19.25	06.04	93.4
014.0	28.71	31.7	53.3	19.73	05.01	77.9
016.1	28.91	32.8	55.0	20.46	03.37	52.9

CHLOROPHYLL DATA

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Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.93	0.45	2.38	1.9
016.1	2.22	0.64	2.86	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)

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CRUISE DATA - TRANSECT K  
(off Cameron)

Station: 05                      Latitude: 29:10.0 N      Hydrolab cast time: 22:50  
Date: 09/12/85                  Longitude: 93:25.0 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
000.0	28.74	32.4	54.3	20.23	05.76	89.9
001.8	28.72	32.5	54.4	20.29	05.78	90.2
004.0	28.72	32.6	54.4	20.29	05.74	89.6
006.0	28.59	32.6	54.4	20.44	05.58	87.0
008.0	28.53	32.6	54.4	20.46	05.13	79.9
010.1	28.56	32.7	54.5	20.50	04.79	74.7
012.0	28.58	32.8	54.6	20.55	04.66	72.7
014.2	28.58	32.8	54.6	20.55	04.56	71.1
016.1	28.82	33.1	55.4	20.71	02.44	38.3
017.0	28.75	33.1	55.3	20.73	02.08	32.6
018.3	28.63	33.2	55.4	20.87	02.19	34.3

CHLOROPHYLL DATA

=====

Depth (m)	Chlorophyll (ug/L)	Phaeopigments (ug/L)	Total Pigments (ug/L)	Acid Ratio (Fo/Fa)
000.0	1.80	0.50	2.30	1.9
018.3	2.19	0.71	2.90	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)
=====	=====	=====	=====	=====	=====

