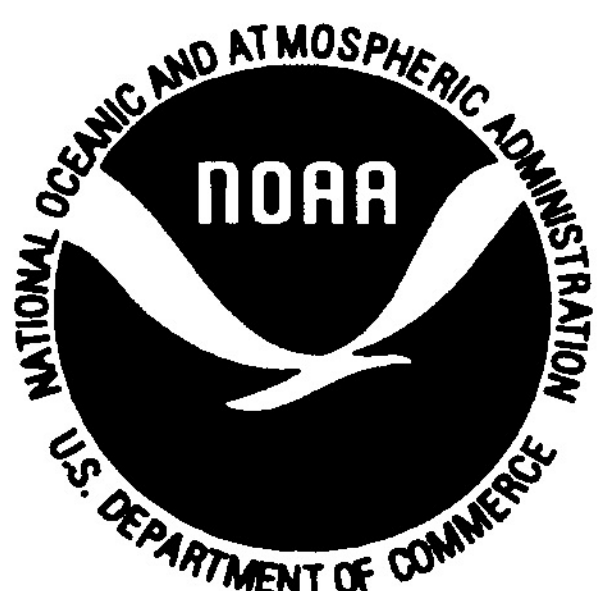


NOAA Data Report OAR AOML-36

**OCEANOGRAPHIC CONDITIONS IN THE GULF OF MEXICO AND
STRAITS OF FLORIDA, FALL 1976**

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December 1999



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Oceanographic Conditions in the Gulf of Mexico and Straits of Florida

1. Fall 1976

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ABSTRACT

NOAA conducted an investigation in the Gulf of Mexico and the Straits of Florida of oceanographic conditions, and nutrients and trace metal levels in seawater during September and October 1976 aboard the NOAA ship RESEARCHER. This report lists the chemical data obtained from 118 stations. Collection and analyses methodologies are described and results described.

1. INTRODUCTION

The Atlantic Oceanographic and Meteorological Laboratory (AOML) of the National Oceanic and Atmospheric Administration (NOAA) conducted an investigation in the Gulf of Mexico and the Straits of Florida of oceanographic conditions, and nutrients and trace metal levels in seawater during September and October 1976. The primary objectives of the study were: 1) to define the circulation pattern and to determine the pathways of water transfer from the eastern to western Gulf and visa versa; 2) to determine the distribution and concentration of nutrients, trace metals, dissolved oxygen and salinity in these areas; and 3) to obtain data suitable for input into a numerical model of the Gulf of Mexico.

The following report lists the chemical data obtained from 118 stations by AOML staff and other personnel aboard the NOAA ship RESEARCHER. Collection and analyses methodologies are described and results described. Although methodologies have improved markedly over the past two decades, these data may be of historical interest. The data are listed in Appendix I.

2. METHODOLOGY

2.1. Navigation

Satellite navigation was the primary position determination system used aboard the RESEARCHER. In addition, Omega/Loran C were used to provide control between satellite positions through the operation. A smooth plot of the ship's track, including station positions, was computed by the ship's personnel using the most reliable fixes from the above mentioned systems. The CTD stations positions are accurate to within plus or minus one nautical mile. The station positions are shown in Figures 1 and 2 and the latitude, longitudes and sampling date and time are listed in Appendix I. Station 113 was not occupied due to proximity to Cuban territorial waters.

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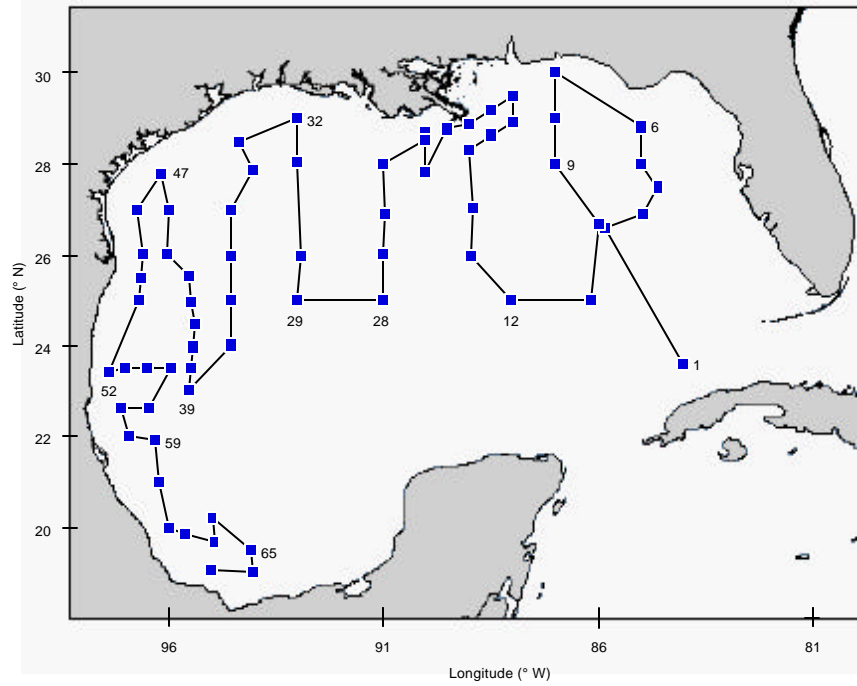


Figure 1. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise. Leg I, October 6 - 31.

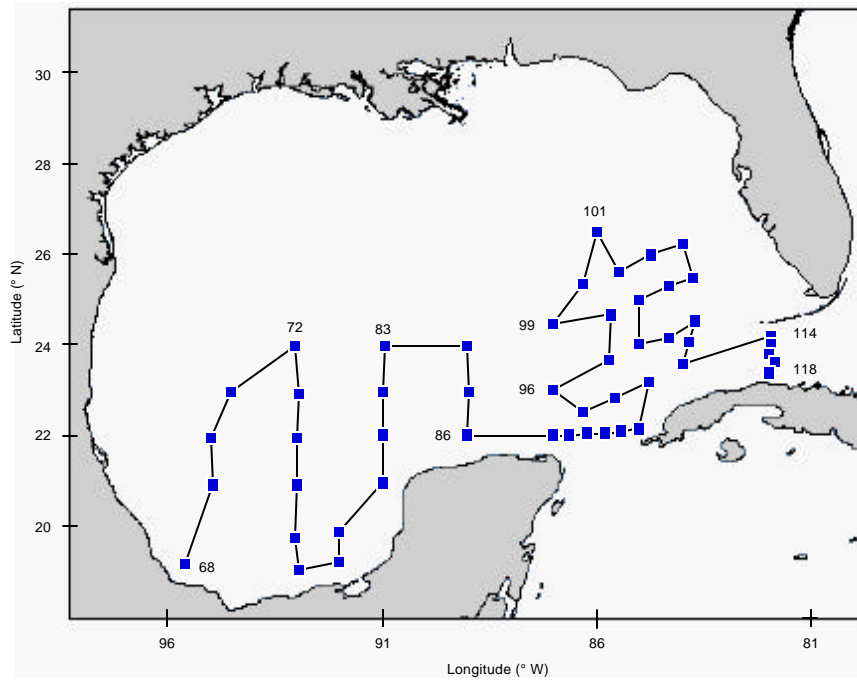


Figure 2. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise. Leg II, November 1 - 14.

Table 1. Samples drawn from Niskin bottles

Sample	Volume	Treatment	Container
Oxygen	250 mL	Manganous sulfate and alkali iodide reagents	Amber glass bottle with ground glass stopper
Trace metals	1000 mL	Filtered through Nuclepore filter and acidified with nitric acid	Acid cleaned 1-L linear-polyethylene bottles. Filter was frozen.
Nutrients	100 mL	Frozen	"Aged" 250-mL poly-ethylene bottles
Particulate organics	2 x 2000 mL	Frozen	Duplicate glass fiber filters
Salinity	500 mL	None	500-mL glass
Particulates	50 mL	Frozen	Millipore filters

2.2. Data collection and field procedures

During this cruise, except for stations 1 through 11, temperature and salinity were measured at each station by means of a Plessey 9040 CSTD with attached General Oceanics Rosette

Multisamples using specially designed 2.5-L Niskins bottles. These bottles were made of polyvinyl chloride (PVC) and utilized metal-free "O" rings. Stations 1 through 11 were sampled using oceanographic casts with there Niskin bottles due to the malfunction of the CSTD.

At each CSTD station, continuous vertical profiles of temperature and salinity as well as water samples at discreet depths were obtained. In order to establish good field calibration for the CSTD on each cast, every other water sampling bottle was furnished with reversing thermometers. All seawater samples were collected at pre-determined depths based on the temperature profile recorded during the downcast. These depths were chosen to sample maximum and minimum physical and chemical properties of the water column as seen in historical oceanographic data.

Immediately after recovery of the CSTD and rosette sampler, the Niskin bottles were taken to a constant temperature wet laboratory onboard. Seawater samples for dissolved oxygen were drawn first in order to minimize atmospheric contamination and temperature-induced changes. These samples were collected in 250-mL amber glass bottles with ground glass stoppers and preserved with manganous sulfate and alkaline iodide reagents.

Trace metal samples were collected immediately after the dissolved oxygen sample after pressurizing the Niskin bottle with nitrogen gas. A Millipore filter holder with a 0.45 μm pore size Nuclepore filter was attached to the stop cock of the Niskin bottle. All Nuclepore filters were pre-loaded into the acid-cleaned filter heads in an environmental chamber onboard ship using plastic tweezers. After allowing approximately 100 mL of seawater to flow in order to rinse the filtering assembly, the filtered seawater was collected directly into a 125-mL acid-cleaned linear polyethylene bottle. The filtered seawater sample was acidified by adding 100 μL of silica redistilled concentrated nitric acid and stored for analyses at AOML. After use the filter holders were rinsed several times with deionized distilled water and reloaded with new filters. Special precautions were taken to eliminate contamination of the trace metal samples arising from ship maneuvers or procedures while on station.

Nutrient samples were collected in "aged" 125-mL linear polyethylene bottles and stored in a refrigerator for analyses onboard ship within six to twelve hours or less after collection.

Salinity samples were collected last in "aged" 500-mL glass bottles with throw-away plastic screw caps and stored for several hours to allow temperature equilibration.

2.3. Laboratory analyses

2.3.1. Dissolved oxygen

The oxygen samples were analyzed onboard shortly after collection using the modified Winkler titration method described by Strickland and Parsons (1968).

2.3.2. Nutrients

Water samples were analyzed for dissolved nitrate ($\text{NO}_3\text{-N}$), nitrite ($\text{NO}_2\text{-N}$), orthophosphate ($\text{PO}_4\text{-P}$), and silicate ($\text{SiO}_3\text{-Si}$) with a four channel Technicon Autoanalyzer, generally within a period of six weeks after their collection.

The analytical procedures used in the analyses for nitrate and nitrite are described by Armstrong *et al.* (1967). The orthophosphate procedure is described by Grasshoff (1965), and the silicate procedure is described by Strickland and Parsons (1968). The water used for standardization, blank determinations, and wash between samples is filtered Gulf Stream sea water obtained from the surface of the Straits of Florida. The detection limits and precisions of analysis for the four nutrients are listed in Table 2.

Table 2. Operational characteristics of the nutrient analysis system.

Nutrient	Detection limits ($\mu\text{g-at/L}$)	Standard deviation ($\mu\text{g-at/L}$)	Coefficient of variation (95% confidence level)
$\text{NO}_3\text{-N}$	0.0 - 50.0	0.5	0.17% at 15.0 $\mu\text{g-at/L}$
$\text{NO}_2\text{-N}$	0.0 - 20.0	0.1	1.2% at 3.2 $\mu\text{g-at/L}$
$\text{PO}_4\text{-P}$	0.0 - 20.0	0.05	1.6% at 0.64 $\mu\text{g-at/L}$
$\text{SiO}_3\text{-Si}$	0.0 - 50.0	0.5	2.3% at 33.0 $\mu\text{g-at/L}$

2.3.3. Trace metals

The sea water samples were analyzed for total dissolved Fe, Mn, Cu, and Cd by the method of Segar and Cantillo (1976), using a Perkin-Elmer Atomic Absorption Spectrophotometer Model 503 equipped with a Heated Graphite Atomizer (HGA 2100). The analysis was generally completed within three months after collection of the samples. The samples collected on WCC 6 were not filtered, and the results obtained are a measure of the total metal in the sea water. The samples for cruises WCC 10, 11, and 12 were also analyzed for total dissolved Zn by the method of Segar and Cantillo (1976). The approximate detection limits of the dissolved trace metal analyses are as follows: Fe, 0.4 µg/kg; Mn, 0.3 µg/kg; Cu, 0.5 µg/kg; Cd, 0.01 µg/kg; and Zn, 0.01 µg/kg. The precision of trace metal analysis varied, but it was always better than ±15% for concentrations in excess of 10 times the detection limit.

2.3.4. Salinity

Salinity determination were done onboard using a Guildline Auto-Sal Model 8500 salinometer calibrated with Wormley standard seawater.

3. ACKNOWLEDGEMENTS

The authors express their thanks to the officers and crew of the NOAA Ship RESEARCHER under Capt. Robert Franklin for the long and diligent hours devoted to collecting these data; and to Dr. Leticia Rosales and Mr. Hugo Fernandez of the Centro de Ciencias del Mar y Limnología of the Universidad Nacional Autónoma de México for their participation in the collection and analysis of the chemistry samples. Our sincere thanks to Dr. Dave Behringer and Mr. Robert Starr of the Physical Oceanographic Laboratory of AOML for serving as chief scientist for Leg 1 and Leg 2 respectively. Thanks are also expressed to Mr. Antonio Mendez and Mr. Brenden Dwyer of the Ocean Chemistry Laboratory of AOML for their assistance in the sample analysis of trace metals. We thank Drs. Ed Johnson and Gunnar Lauenstein (NOS/NCCOS) for their assistance with the chart software.

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APPENDIX I

Chemistry data

Parameters and units

Depth	Depth (meters)
Temp.	Temperature (°C)
Salinity	Salinity (‰)
O ₂	Oxygen (mL/L)
Fe	Total dissolved iron (µg/L)
Mn	Total dissolved manganese (µg/L)
Cu	Total dissolved copper (µg/L)
Cd	Total dissolved cadmium (µg/L)
Zn	Total dissolved zinc (µg/L)
NO ₂ ⁻	Dissolved nitrite (µg-at/L)
NO ₃ ⁻	Dissolved nitrate (µg-at/L)
SiO ₃ ⁻²	Dissolved silicate (µg-at/L)
PO ₄ ⁻³	Dissolved phosphate (µg-at/L)

8. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data.

9. 10. 11. 12.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
13.	Station 1	Lat (N): 23° 34.8'		Long (W): 84° 0.2'						
14.	-	36.005	5.20	-	-	-	-	-	<0.10	<0.1
15.	-	36.156	4.99	-	-	-	-	-	<0.10	0.2
16.	-	36.790	4.40	-	-	-	-	-	<0.10	1.5
17.	28.56	36.871	4.19	-	-	-	-	-	<0.10	2.8
18.	-	36.112	4.03	-	-	-	-	-	0.11	11.2
19.	-	35.448	3.28	-	-	-	-	-	<0.10	27.5
20.	6.89	35.158	3.36	-	-	-	-	-	<0.10	37.7
21.	-	35.051	3.12	-	-	-	-	-	<0.10	46.4
22.	6.62	-	-	-	-	-	-	-	-	-
23.	4.20	35.015	5.52	-	-	-	-	-	<0.10	25.6
24.	Station 2	Lat (N): 26° 35.0'		Long (W): 85° 51.3'						
25.	-	36.051	5.12	-	-	-	-	-	<0.10	0.2
26.	-	36.414	4.74	-	-	-	-	-	<0.10	1.2
27.	-	36.876	4.34	-	-	-	-	-	<0.10	2.7
28.	-	36.803	4.06	-	-	-	-	-	<0.10	4.6
29.	-	36.672	3.56	-	-	-	-	-	<0.10	7.6
30.	-	36.430	4.13	-	-	-	-	-	<0.10	9.4
31.	-	35.705	3.22	-	-	-	-	-	0.10	31.5
32.	-	35.196	2.92	-	-	-	-	-	0.34	45.8
33.	-	35.046	3.09	-	-	-	-	-	0.38	52.2
34.	6.43	35.123	3.41	-	-	-	-	-	<0.10	52.7
35.	-	35.023	5.15	-	-	-	-	-	<0.10	27.4
36.	4.24	35.021	5.17	-	-	-	-	-	<0.10	30.2

37. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

38. 39. 40. 41.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
42.	Station 3	Lat (N): 26° 54.9		Long (W): 84° 59.3'						
43.	-	36.415	5.12	-	-	-	-	-	<0.10	<0.1
44.	-	35.964	4.63	-	-	-	-	-	<0.10	0.3
45.	-	36.664	4.08	-	-	-	-	-	<0.10	4.2
46.	21.55	36.752	3.98	-	-	-	-	-	<0.10	5.4
47.	-	36.791	3.88	-	-	-	-	-	<0.10	6.7
48.	18.31	35.978	5.07	-	-	-	-	-	-	-
49.	-	35.830	3.57	-	-	-	-	-	<0.10	28.4
50.	12.40	35.205	2.96	-	-	-	-	-	<0.10	50.0
51.	-	35.028	3.02	-	-	-	-	-	<0.10	58.7
52.	7.40	35.119	3.40	-	-	-	-	-	<0.10	58.6
53.	-	35.094	3.83	-	-	-	-	-	<0.10	52.5
54.	5.51	35.095	3.88	-	-	-	-	-	<0.10	54.3
55.	Station 4	Lat (N): 27° 30.6'		Long (W): 84° 37.1'						
56.	-	35.824	5.21	-	-	-	-	-	<0.10	<0.1
57.	26.57	36.229	5.41	-	-	-	-	-	<0.10	<0.1
58.	24.20	36.436	4.76	-	-	-	-	-	<0.10	0.4
59.	21.49	36.343	4.13	-	-	-	-	-	<0.10	2.3
60.	18.03	36.361	3.20	-	-	-	-	-	<0.10	17.1
61.	-	35.902	3.04	-	-	-	-	-	0.60	25.1

62. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

63. 64. 65. 66.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
67.	Station 5	Lat (N): 27° 59.5'		Long (W): 84° 59.9'						
68.	-	35.508	5.23	-	-	-	-	-	<0.10	<0.1
69.	-	36.053	5.28	-	-	-	-	-	<0.10	<0.1
70.	20.98	36.338	4.47	-	-	-	-	-	<0.10	1.2
71.	17.82	36.334	2.79	-	-	-	-	-	<0.10	18.3
72.	14.06	35.817	3.14	-	-	-	-	-	<0.10	31.4
73.	12.17	35.522	2.84	-	-	-	-	-	<0.10	41.4
74.	Station 6	Lat (N): 28° 49.6'		Long (W): 85° 0.1'						
75.	-	34.743	5.05	-	-	-	-	-	<0.10	0.4
76.	26.48	34.698	5.05	-	-	-	-	-	<0.10	0.2
77.	23.38	36.117	4.89	-	-	-	-	-	<0.10	<0.1
78.	21.43	36.190	3.91	-	-	-	-	-	0.46	1.7
79.	20.45	36.233	3.56	-	-	-	-	-	0.45	5.1
80.	Station 7	Lat (N): 30° 0.0'		Long (W): 86° 59.7'						
81.	-	34.005	5.05	3.4	<0.75	6.0	0.12	11	<0.10	<0.1
82.	25.28	34.009	5.13	53	4.6	9.0	0.62	28	<0.10	<0.1
83.	-	35.121	4.48	24	0.75	6.7	0.08	12	0.36	0.3
84.	23.58	36.022	4.14	3.4	0.75	6.3	0.16	13	0.73	2.4
85.	-	-	-	-	-	-	-	-	-	-
86.	19.49	36.333	3.35	7.6	<0.75	7.7	<0.08	13	<0.10	12.2

87. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

88. 89. 90. 91.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
92.	Station 8	Lat (N): 29° 0.0'		Long (W): 86° 59.9'						
93.	-	36.059	5.08	45	2.1	6.0	0.27	13	<0.10	<0.1
94.	23.43	36.423	5.23	13	4.0	7.0	0.27	12	<0.10	<0.1
95.	19.21	36.411	3.23	31	1.8	11	0.12	12	<0.10	13.9
96.	8.03	34.958	2.91	6.2	<0.75	8.0	0.16	11	<0.10	61.9
97.	6.98	34.883	3.09	5.6	<0.75	6.7	0.19	14	<0.10	63.4
98.	6.52	34.875	3.25	5.5	<0.75	8.0	0.19	15	<0.10	62.7
99.	Station 9	Lat (N): 27° 59.8'		Long (W): 87° 0.1'						
100.	-	35.027	5.20	-	-	-	-	-	<0.10	<0.1
101.	23.70	36.479	5.04	-	-	-	-	-	<0.10	<0.1
102.	-	36.492	4.35	-	-	-	-	-	0.15	0.7
103.	-	36.428	3.44	-	-	-	-	-	<0.10	16.8
104.	-	35.749	3.28	-	-	-	-	-	-	-
105.	9.79	-	-	-	-	-	-	-	-	-
106.	-	35.052	-	-	-	-	-	-	-	-
107.	-	-	-	-	-	-	-	-	-	-
108.	-	35.024	5.04	-	-	-	-	-	<0.10	43.0
109.	4.25	35.020	5.17	-	-	-	-	-	<0.10	42.0

110. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

111. 112. 113. 114.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
115.	Station 10	Lat (N): 26° 39.8'		Long (W): 86° 0.1'						
116.	-	36.089	4.95	-	-	-	-	-	<0.10	2.7
117.	-	36.402	4.32	-	-	-	-	-	<0.10	1.1
118.	-	36.782	4.00	-	-	-	-	-	<0.10	3.9
119.	21.21	36.849	3.77	-	-	-	-	-	<0.10	7.1
120.	-	36.646	3.85	-	-	-	-	-	<0.10	8.6
121.	17.79	36.447	3.77	-	-	-	-	-	<0.10	13.4
122.	-	35.734	3.30	-	-	-	-	-	<0.10	34.5
123.	9.97	35.150	2.96	-	-	-	-	-	<0.10	56.5
124.	-	35.054	3.05	-	-	-	-	-	<0.10	62.9
125.	6.53	35.138	3.30	-	-	-	-	-	<0.10	64.0
126.	-	35.027	5.05	-	-	-	-	-	<0.10	45.0
127.	4.24	35.021	5.17	-	-	-	-	-	<0.10	43.3

128. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

129. 130. 131. 132.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
133.	Station 11	Lat (N): 25° 0.1'		Long (W): 86° 10.1'						
134.	-	35.940	5.00	-	-	-	-	-	<0.10	<0.1
135.	-	36.258	4.66	-	-	-	-	-	0.10	0.2
136.	-	36.651	4.30	-	-	-	-	-	0.12	1.7
137.	-	36.892	4.03	-	-	-	-	-	0.27	4.8
138.	-	36.761	3.75	-	-	-	-	-	<0.10	10.8
139.	-	36.526	3.90	-	-	-	-	-	<0.10	12.2
140.	-	35.020	3.41	-	-	-	-	-	0.10	31.2
141.	-	35.025	3.07	-	-	-	-	-	<0.10	55.1
142.	-	35.102	3.01	-	-	-	-	-	<0.10	63.8
143.	-	35.040	3.53	-	-	-	-	-	<0.10	63.8
144.	-	35.194	5.13	-	-	-	-	-	<0.10	45.9
145.	-	35.881	5.21	-	-	-	-	-	<0.10	44.0

146. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

147. 148. 149. 150.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
151.	Station 12	Lat (N): 25° 0.1'		Long (W): 88° 1.7'						
152.	26.26	36.226	4.92	-	-	-	-	-	-	<0.1
153.	23.92	36.230	4.94	-	-	-	-	-	-	<0.1
154.	22.88	36.466	4.97	-	-	-	-	-	-	<0.1
155.	20.37	36.717	4.29	-	-	-	-	-	-	1.2
156.	19.76	36.742	3.90	-	-	-	-	-	-	8.2
157.	17.45	36.380	3.51	-	-	-	-	-	-	19.1
158.	13.76	35.812	3.33	-	-	-	-	-	-	35.0
159.	9.66	35.216	2.99	-	-	-	-	-	-	56.5
160.	7.72	35.075	3.02	-	-	-	-	-	-	67.8
161.	6.48	35.116	3.22	-	-	-	-	-	-	67.6
162.	4.23	35.027	5.00	-	-	-	-	-	-	48.3
163.	4.25	35.021	5.08	-	-	-	-	-	-	46.5

164. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

165. 166. 167. 168.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
169.	Station 13	Lat (N): 25° 59.2'		Long (W): 88° 56.8'						
170.	27.23	36.060	3.91	-	-	-	-	-	-	<0.1
171.	25.91	36.287	4.39	-	-	-	-	-	-	<0.1
172.	23.33	36.480	3.48	-	-	-	-	-	-	<0.1
173.	21.63	36.703	3.49	-	-	-	-	-	-	0.9
174.	19.71	36.919	3.62	-	-	-	-	-	-	1.6
175.	17.83	36.785	3.77	-	-	-	-	-	-	4.6
176.	13.89	35.019	2.84	-	-	-	-	-	-	12.9
177.	9.76	35.014	2.83	-	-	-	-	-	-	27.8
178.	7.79	35.112	2.97	-	-	-	-	-	-	32.4
179.	6.68	35.045	3.18	-	-	-	-	-	-	34.3
180.	4.26	35.179	4.99	-	-	-	-	-	-	24.6
181.	4.26	35.773	5.15	-	-	-	-	-	-	23.3

182. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

183. 184. 185. 186.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
187. Station 14		Lat (N): 27° 0.8'		Long (W): 88° 53.6'						
188.	27.29	36.110	4.81	-	-	-	-	-	-	0.2
189.	25.64	36.306	4.65	-	-	-	-	-	-	<0.1
190.	23.97	36.693	4.11	-	-	-	-	-	-	1.0
191.	21.87	36.913	3.74	-	-	-	-	-	-	2.3
192.	19.42	36.680	3.61	-	-	-	-	-	-	4.6
193.	18.26	36.544	3.62	-	-	-	-	-	-	6.3
194.	13.55	35.735	3.12	-	-	-	-	-	-	18.6
195.	9.39	35.155	2.84	-	-	-	-	-	-	29.2
196.	7.83	35.047	2.92	-	-	-	-	-	-	29.7
197.	6.41	35.119	3.20	-	-	-	-	-	-	28.5
198.	4.40	35.038	4.71	-	-	-	-	-	-	23.6
199.	4.21	35.018	5.17	-	-	-	-	-	-	19.6
200. Station 15		Lat (N): 28° 19.6'		Long (W): 89° 0.4'						
201.	25.48	36.128	4.91	-	-	-	-	-	<0.10	<0.1
202.	23.49	36.405	4.95	1.4	3.1	6.6	<0.08	11	<0.10	<0.1
203.	20.57	36.500	4.00	30	5.2	5.9	0.16	14	-	1.5
204.	20.34	36.523	3.96	11	2.2	7.2	<0.08	14	-	1.7
205.	19.72	36.492	3.59	10	2.1	14	<0.08	13	<0.10	5.8
206.	17.92	36.326	3.18	4.0	2.1	6.0	<0.08	14	<0.10	12.7
207.	9.74	35.165	2.88	4.0	2.4	6.7	0.16	13	<0.10	30.9
208.	6.14	35.117	3.35	2.0	2.0	12	0.17	12	<0.10	36.7
209.	4.63	35.052	4.45	2.7	1.4	6.3	0.16	15	<0.10	29.1
210.	4.63	35.035	4.48	-	-	-	-	-	<0.10	27.9

211. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

212. 213. 214. 215.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
216. Station 16		Lat (N): 28° 38.0'		Long (W): 88° 29.4'						
217.	26.15	36.120	3.54	44	2.8	5.9	<0.07	13	<0.10	<0.1
218.	25.73	36.115	3.51	4.1	1.9	7.5	<0.07	10	<0.10	<0.1
219.	21.99	36.854	3.05	13	2.6	5.9	0.08	16	<0.10	4.1
220.	6.38	34.961	3.20	4.1	3.5	6.2	0.16	9.4	<0.10	40.7
221.	4.56	-	4.56	2.8	3.4	6.6	0.19	13	<0.10	31.7
222.	4.22	34.883	4.99	5.5	2.8	5.9	0.12	14	<0.10	27.7
223. Station 17		Lat (N): 28° 54.7'		Long (W): 87° 59.8'						
224.	25.88	36.227	4.81	12	2.0	5.3	0.18	18	<0.10	<0.1
225.	24.82	36.042	4.79	9.2	2.0	6.5	0.11	30	<0.10	0.1
226.	21.27	36.526	4.43	8.3	2.0	6.5	0.22	2.7	<0.10	0.1
227.	13.76	35.775	3.14	21	2.7	5.3	0.25	44	<0.10	22.9
228.	6.61	34.877	3.14	20	3.1	7.6	0.31	34	<0.10	41.4
229.	4.22	34.972	4.94	6.7	3.7	6.2	0.29	16	<0.10	29.2
230. Station 18		Lat (N): 29° 30.1'		Long (W): 87° 59.9'						
231.	25.23	35.096	4.87	3.7	0.77	5.4	<0.07	7.0	<0.10	<0.1
232.	25.17	35.095	4.86	5.3	1.3	7.1	0.18	11	<0.10	<0.1
233.	25.18	35.090	4.89	6.3	1.9	7.1	0.07	8.8	<0.10	<0.1
234.	25.18	35.091	4.78	9.4	0.97	5.6	0.07	11	<0.10	<0.1
235.	24.73	35.124	4.87	2.5	1.8	5.9	<0.07	7.1	<0.10	<0.1
236.	24.03	35.718	4.11	2.9	2.9	1.2	0.08	7.8	0.32	0.5

237. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

238. 239. 240. 241.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
242. Station 19		Lat (N): 29° 10.8'		Long (W): 88° 30.0'						
243.	26.11	34.785	3.01	3.3	0.97	6.1	<0.07	7.6	<0.10	<0.1
244.	26.04	36.020	3.17	1.6	<0.58	6.1	<0.07	7.7	<0.10	<0.1
245.	22.59	36.460	3.22	3.3	0.58	7.5	<0.07	8.9	0.26	0.7
246.	19.49	36.466	3.33	3.3	1.1	7.4	0.20	8.9	<0.10	6.5
247.	16.68	36.172	3.15	2.4	1.2	7.5	0.07	8.8	<0.10	13.0
248.	13.93	35.799	3.12	5.3	1.2	6.8	0.07	8.6	<0.10	19.2
249. Station 20		Lat (N): 28° 51.9'		Long (W): 88° 59.9'						
250.	25.60	35.945	4.87	3.1	<0.58	5.2	0.07	9.5	<0.10	<0.1
251.	24.73	36.044	4.86	3.1	1.7	5.2	0.14	9.9	<0.10	<0.1
252.	22.39	36.550	4.61	3.5	<0.58	6.1	0.18	8.9	<0.10	<0.1
253.	18.68	36.422	3.33	3.8	1.2	5.8	0.36	12	<0.10	7.3
254.	15.63	36.048	3.72	-	-	-	-	-	<0.10	11.0
255.	12.46	35.568	2.99	13	1.1	8.5	0.07	7.2	<0.10	19.8
256. Station 21		Lat (N): 28° 45.7'		Long (W): 89° 30.5'						
257.	25.38	33.449	4.82	1.2	0.97	6.5	0.11	19	0.19	0.2
258.	25.44	35.360	4.69	2.7	1.1	6.5	0.11	9.7	<0.10	<0.1
259.	24.33	36.040	4.79	1.9	0.77	5.2	0.11	7.7	<0.10	<0.1
260.	22.17	36.500	4.43	5.8	0.87	5.5	0.29	8.6	0.18	0.1
261.	19.97	36.495	3.30	4.2	1.5	7.1	0.86	7.6	<0.10	4.6
262.	17.77	36.358	3.17	2.7	1.6	5.8	0.14	16	<0.10	8.2

263. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

264. 265. 266. 267.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
268. Station 22		Lat (N): 27° 48.0'		Long (W): 90° 0.1'						
269.	26.81	36.014	4.81	3.8	3.9	5.1	1.7	10	<0.10	<0.1
270.	23.83	36.168	5.39	1.7	2.0	6.5	0.50	13	<0.10	<0.1
271.	17.62	36.391	3.69	7.7	1.7	3.3	0.47	7.1	<0.10	6.3
272.	13.96	35.799	3.27	21	1.6	3.6	0.12	8.7	<0.10	14.7
273.	7.51	34.490	2.91	3.8	1.9	3.6	0.16	14	<0.10	31.7
274.	7.24	34.915	3.05	15	2.4	5.1	0.32	12	<0.10	32.2
275. Station 23		Lat (N): 28° 40.0'		Long (W): 90° 0.1'						
276.	25.55	35.050	4.81	2.1	3.7	3.2	<0.06	7.7	<0.10	<0.1
277.	24.47	36.048	4.09	1.2	4.6	6.9	0.06	8.5	0.50	0.3
278.	22.77	36.202	3.83	15	2.3	4.0	0.09	8.0	<0.10	1.2
279.	20.00	36.401	3.15	15	2.4	3.6	0.13	9.3	<0.10	4.9
280.	17.24	36.262	3.10	15	2.5	3.3	0.40	9.8	<0.10	9.2
281. Station 24		Lat (N): 28° 33.0'		Long (W): 90° 0.6'						
282.	25.62	34.942	4.40	4.6	3.7	4.5	0.34	7.1	<0.10	<0.1
283.	25.93	35.204	4.55	15	4.6	3.2	<0.07	6.0	<0.10	<0.1
284.	25.80	35.661	4.71	9.6	3.1	5.0	0.19	7.4	<0.10	<0.1
285.	24.91	35.829	4.89	1.2	3.4	4.3	<0.06	6.2	<0.10	<0.1
286.	24.91	35.829	4.87	3.3	2.4	3.6	0.47	8.5	<0.10	<0.1

287. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

288. 289. 290. 291.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
292. Station 25		Lat (N): 28° 0.4'		Long (W): 90° 59.6'						
293.	26.63	35.962	4.87	12	4.7	4.0	2.8	11	<0.10	<0.1
294.	26.61	35.965	4.81	10	3.2	4.2	0.18	14	<0.10	<0.1
295.	23.54	36.186	5.17	6.4	2.3	4.4	<0.07	15	<0.10	<0.1
296.	-	36.231	3.83	10	1.3	4.4	0.57	10	-	0.4
297.	-	36.315	3.01	10	2.6	3.6	0.07	12	<0.10	8.7
298.	-	36.097	3.01	29	2.9	4.1	0.50	20	0.43	8.9
299. Station 26		Lat (N): 26° 55.0'		Long (W): 90° 56.3'						
300.	27.02	36.161	-	-	-	-	-	-	-	-
301.	25.46	36.149	3.48	-	-	-	-	-	<0.10	<0.1
302.	24.01	36.352	3.95	-	-	-	-	-	<0.10	<0.1
303.	21.08	36.855	3.20	-	-	-	-	-	0.18	2.1
304.	18.85	36.412	3.02	-	-	-	-	-	<0.10	6.8
305.	17.95	36.446	3.57	-	-	-	-	-	<0.10	5.3
306.	13.60	35.746	3.25	-	-	-	-	-	<0.10	13.4
307.	9.71	35.153	2.79	-	-	-	-	-	0.16	27.6
308.	7.78	34.957	2.92	-	-	-	-	-	<0.10	29.8
309.	6.46	34.891	3.31	-	-	-	-	-	<0.10	32.2
310.	4.63	34.945	4.52	-	-	-	-	-	<0.10	25.7
311.	4.19	34.976	5.12	-	-	-	-	-	<0.10	21.9

312. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

313. 314. 315. 316.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
317.	Station 27	Lat (N): 26° 0.9'		Long (W): 90° 59.6'						
318.	25.58	36.300	4.82	-	-	-	-	-	<0.10	0.1
319.	25.55	36.291	4.81	-	-	-	-	-	<0.10	<0.1
320.	22.98	36.325	4.81	-	-	-	-	-	<0.10	<0.1
321.	20.14	36.505	4.04	-	-	-	-	-	0.24	3.0
322.	18.30	36.450	3.53	-	-	-	-	-	0.67	6.3
323.	15.80	36.075	3.48	-	-	-	-	-	0.36	9.7
324.	13.77	35.758	3.18	-	-	-	-	-	-	16.1
325.	9.88	35.206	2.89	-	-	-	-	-	-	24.0
326.	7.97	34.967	3.07	-	-	-	-	-	<0.10	34.1
327.	6.84	34.872	3.17	-	-	-	-	-	-	32.3
328.	4.25	34.970	4.99	-	-	-	-	-	<0.10	23.2
329.	4.26	34.978	5.13	-	-	-	-	-	<0.10	22.0

330. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

331. 332. 333. 334.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
335.	Station 28	Lat (N): 25° 0.5'		Long (W): 90° 59.9'						
336.	27.15	36.143	5.34	-	-	-	-	-	<0.10	<0.1
337.	24.38	36.177	4.89	-	-	-	-	-	<0.10	<0.1
338.	23.48	36.225	5.57	-	-	-	-	-	<0.10	<0.1
339.	19.78	36.323	3.61	-	-	-	-	-	0.28	4.8
340.	18.92	36.372	3.15	-	-	-	-	-	<0.10	10.9
341.	17.30	36.271	3.15	-	-	-	-	-	<0.10	13.2
342.	13.83	35.751	2.89	-	-	-	-	-	<0.10	24.4
343.	9.90	35.193	2.92	-	-	-	-	-	<0.10	32.5
344.	7.95	34.982	2.97	-	-	-	-	-	0.27	36.9
345.	6.30	34.890	3.28	-	-	-	-	-	<0.10	37.6
346.	4.22	34.971	4.94	-	-	-	-	-	<0.10	26.3
347.	4.25	34.977	5.08	-	-	-	-	-	<0.10	24.8

348. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

349. 350. 351. 352.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
353. Station 29		Lat (N): 25° 0.5'		Long (W): 92° 58.4'						
354.	26.85	35.924	5.00	-	-	-	-	-	<0.10	<0.1
355.	25.27	35.974	5.00	-	-	-	-	-	<0.10	<0.1
356.	23.36	36.319	5.15	-	-	-	-	-	<0.10	<0.1
357.	19.59	36.296	3.87	-	-	-	-	-	<0.10	2.2
358.	18.34	36.224	2.94	-	-	-	-	-	<0.10	16.1
359.	17.49	36.325	2.88	-	-	-	-	-	<0.10	14.8
360.	13.88	35.843	2.99	-	-	-	-	-	<0.10	21.9
361.	9.80	35.206	2.83	-	-	-	-	-	<0.10	35.2
362.	7.92	34.986	2.88	-	-	-	-	-	<0.10	38.8
363.	6.30	34.891	3.35	-	-	-	-	-	0.16	38.6
364.	4.23	34.974	5.02	-	-	-	-	-	<0.10	28.7
365.	4.25	34.979	-	-	-	-	-	-	-	-
366. Station 30		Lat (N): 25° 58.6'		Long (W): 92° 53.9'						
367.	26.55	35.958	4.95	-	-	-	-	-	<0.10	<0.1
368.	24.16	35.981	4.94	-	-	-	-	-	<0.10	<0.1
369.	21.38	36.213	4.87	-	-	-	-	-	<0.10	<0.1
370.	19.82	36.279	4.11	-	-	-	-	-	<0.10	0.2
371.	17.71	36.329	2.83	-	-	-	-	-	0.10	8.5
372.	13.85	35.735	3.04	-	-	-	-	-	0.28	16.0
373.	9.39	35.175	2.83	-	-	-	-	-	0.22	25.8
374.	8.06	-	2.83	-	-	-	-	-	0.29	29.2
375.	6.60	35.118	3.20	-	-	-	-	-	0.11	30.8
376.	4.22	35.025	4.95	-	-	-	-	-	<0.10	23.0
377.	4.25	35.022	5.15	-	-	-	-	-	<0.10	22.9

378. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

379. 380. 381. 382.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
383. Station 31		Lat (N): 28° 2.2'		Long (W): 92° 57.7'						
384.	25.79	35.920	4.92	-	-	-	-	-	<0.10	<0.1
385.	23.50	35.928	4.82	-	-	-	-	-	<0.10	0.2
386.	23.29	36.237	4.95	-	-	-	-	-	<0.10	0.2
387.	21.07	36.261	4.55	-	-	-	-	-	<0.10	0.2
388.	18.89	36.391	3.07	-	-	-	-	-	0.32	7.0
389.	17.05	36.190	2.73	-	-	-	-	-	0.62	8.8
390. Station 32		Lat (N): 28° 59.9'		Long (W): 93° 0.0'						
391.	24.76	34.747	4.81	-	-	-	-	-	<0.10	<0.1
392.	24.76	34.745	4.87	-	-	-	-	-	<0.10	<0.1
393.	24.77	34.736	4.86	-	-	-	-	-	<0.10	<0.1
394. Station 33		Lat (N): 28° 29.7'		Long (W): 94° 19.4'						
395.	25.53	35.618	4.78	-	-	-	-	-	<0.10	<0.1
396.	25.53	35.615	4.84	-	-	-	-	-	<0.10	<0.1
397.	25.56	35.639	4.78	-	-	-	-	-	<0.10	0.1

398. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

399. 400. 401. 402.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
403.	Station 34	Lat (N): 27° 52.5'		Long (W): 94° 0.4'						
404.	25.58	35.599	4.81	-	-	-	-	-	<0.10	<0.1
405.	25.60	35.599	4.26	-	-	-	-	-	<0.10	<0.1
406.	25.60	35.609	4.89	-	-	-	-	-	<0.10	<0.1
407.	19.57	36.355	3.05	-	-	-	-	-	<0.10	4.5
408.	16.45	36.141	2.81	-	-	-	-	-	<0.10	9.4
409.	14.43	35.862	2.83	-	-	-	-	-	0.15	12.7
410.	Station 35	Lat (N): 27° 0.2'		Long (W): 94° 30.1'						
411.	25.76	35.803	4.89	-	-	-	-	-	<0.10	<0.1
412.	26.14	35.984	4.86	-	-	-	-	-	<0.10	<0.1
413.	23.34	36.269	5.05	-	-	-	-	-	<0.10	<0.1
414.	19.80	36.266	3.88	-	-	-	-	-	0.30	0.6
415.	19.71	36.301	3.51	-	-	-	-	-	0.30	2.7
416.	17.51	36.282	2.84	-	-	-	-	-	0.29	7.6
417.	13.68	35.756	2.81	-	-	-	-	-	-	12.2
418.	9.85	35.189	2.86	-	-	-	-	-	-	20.4
419.	7.85	34.974	2.86	-	-	-	-	-	0.11	25.5
420.	6.29	34.894	3.31	-	-	-	-	-	0.15	23.6
421.	5.11	34.918	4.01	-	-	-	-	-	0.43	19.5

422. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

423. 424. 425. 426.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
427. Station 36		Lat (N): 25° 59.9'		Long (W): 94° 31.4'						
428.	26.17	36.094	3.56	-	-	-	-	-	<0.10	<0.1
429.	26.19	36.168	2.58	-	-	-	-	-	<0.10	<0.1
430.	26.19	36.233	4.08	-	-	-	-	-	<0.10	<0.1
431.	21.92	36.204	4.65	-	-	-	-	-	<0.10	<0.1
432.	19.21	36.318	2.76	-	-	-	-	-	0.17	4.4
433.	17.87	36.324	2.83	-	-	-	-	-	-	7.8
434.	13.86	35.757	2.70	-	-	-	-	-	0.63	15.4
435.	9.83	35.195	2.66	-	-	-	-	-	0.63	24.9
436.	7.87	34.964	2.92	-	-	-	-	-	0.52	27.9
437.	6.46	34.892	3.23	-	-	-	-	-	0.52	28.1
438.	4.25	34.978	4.95	-	-	-	-	-	0.42	18.6
439.	4.25	34.984	5.07	-	-	-	-	-	0.39	20.8
440. Station 37		Lat (N): 25° 0.1'		Long (W): 94° 29.9'						
441.	26.23	35.973	4.76	-	-	-	-	-	<0.10	<0.1
442.	23.90	36.152	5.33	-	-	-	-	-	<0.10	<0.1
443.	21.71	36.254	4.65	-	-	-	-	-	<0.10	<0.1
444.	17.80	36.349	3.17	-	-	-	-	-	0.98	9.2
445.	15.78	36.081	3.31	-	-	-	-	-	0.98	11.4
446.	13.67	35.783	3.20	-	-	-	-	-	0.33	15.1
447.	9.82	36.186	2.83	-	-	-	-	-	0.57	26.1
448.	7.94	34.958	2.88	-	-	-	-	-	0.43	33.3
449.	6.28	34.886	3.30	-	-	-	-	-	0.38	31.0
450.	4.23	34.974	4.92	-	-	-	-	-	0.91	22.1
451.	4.25	34.979	5.05	-	-	-	-	-	-	20.8

452. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

453. 454. 455. 456.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
457. Station 38		Lat (N): 24° 0.6'		Long (W): 94° 29.3'						
458.	26.81	36.467	4.97	-	-	-	-	-	<0.10	<0.1
459.	23.73	36.466	4.87	-	-	-	-	-	<0.10	<0.1
460.	23.38	36.286	5.16	-	-	-	-	-	<0.10	<0.1
461.	21.84	36.273	4.08	-	-	-	-	-	<0.10	0.5
462.	19.89	36.366	3.30	-	-	-	-	-	<0.10	6.6
463.	17.84	36.168	2.83	-	-	-	-	-	<0.10	14.3
464.	13.90	35.762	2.80	-	-	-	-	-	<0.10	22.0
465.	9.76	35.204	2.60	-	-	-	-	-	0.16	32.4
466.	7.93	34.958	2.91	-	-	-	-	-	<0.10	36.0
467.	6.55	34.890	3.22	-	-	-	-	-	<0.10	37.0
468.	4.23	34.977	4.95	-	-	-	-	-	<0.10	25.3
469.	4.26	34.978	5.08	-	-	-	-	-	0.12	23.4
470. Station 39		Lat (N): 23° 0.0'		Long (W): 95° 30.8'						
471.	27.73	36.413	5.10	-	-	-	-	-	<0.10	<0.1
472.	27.27	36.421	5.07	-	-	-	-	-	<0.10	<0.1
473.	23.76	36.253	5.61	-	-	-	-	-	<0.10	<0.1
474.	21.77	36.243	4.74	-	-	-	-	-	<0.10	<0.1
475.	19.53	36.384	3.02	-	-	-	-	-	1.01	7.3
476.	16.94	36.148	2.78	-	-	-	-	-	<0.10	14.1
477.	13.81	35.800	2.80	-	-	-	-	-	-	18.4
478.	9.85	35.211	2.64	-	-	-	-	-	-	28.9
479.	7.96	34.984	2.81	-	-	-	-	-	<0.10	35.3
480.	6.57	34.905	3.07	-	-	-	-	-	0.80	33.1
481.	4.21	34.972	4.92	-	-	-	-	-	<0.10	24.2

482. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

483. 484. 485. 486.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
487.	Station 40		Lat (N): 23° 30.1'	Long (W): 95° 29.2'						
488.	26.78	36.486	5.05	-	-	-	-	-	<0.10	<0.1
489.	26.70	36.475	5.03	-	-	-	-	-	<0.10	<0.1
490.	23.81	36.258	5.34	-	-	-	-	-	<0.10	<0.1
491.	21.62	36.245	4.70	-	-	-	-	-	<0.10	<0.1
492.	19.66	36.404	3.10	-	-	-	-	-	0.13	4.5
493.	17.87	36.302	2.81	-	-	-	-	-	0.15	8.7
494.	13.93	35.831	2.75	-	-	-	-	-	0.16	17.3
495.	9.64	35.167	2.64	-	-	-	-	-	0.16	29.1
496.	7.90	34.981	2.81	-	-	-	-	-	0.15	32.1
497.	6.50	34.903	3.10	-	-	-	-	-	<0.10	28.1
498.	4.22	34.974	4.94	-	-	-	-	-	0.16	20.6
499.	4.24	34.979	5.05	-	-	-	-	-	0.12	17.1

500. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

501. 502. 503. 504.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
505.	Station 41	Lat (N): 23° 57.8'	Long (W): 95° 26.8'							
506.	26.84	36.491	4.79	-	-	-	-	-	<0.10	<0.1
507.	26.84	36.491	4.79	-	-	-	-	-	<0.10	<0.1
508.	26.84	36.491	4.79	-	-	-	-	-	<0.10	<0.1
509.	26.84	36.491	4.79	-	-	-	-	-	<0.10	<0.1
510.	26.84	36.491	4.79	-	-	-	-	-	5.21	0.1
511.	26.84	36.491	4.79	-	-	-	-	-	8.74	0.1
512.	26.84	36.491	4.79	-	-	-	-	-	18.30	<0.1
513.	26.84	36.491	4.79	-	-	-	-	-	29.64	<0.1
514.	26.84	36.491	4.79	-	-	-	-	-	30.64	0.1
515.	26.84	36.491	4.79	-	-	-	-	-	30.56	0.1
516.	26.84	36.491	4.79	-	-	-	-	-	21.38	0.1
517.	4.25	34.979	4.95	-	-	-	-	-	20.62	0.1

518. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

519. 520. 521. 522.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
523. Station 42			Lat (N): 24° 27.2'	Long (W): 95° 24.2'						
524.	26.81	36.451	4.89	-	-	-	-	-	<0.10	<0.1
525.	24.59	36.254	5.44	-	-	-	-	-	<0.10	<0.1
526.	23.61	36.247	5.31	-	-	-	-	-	<0.10	<0.1
527.	21.40	35.983	-	-	-	-	-	-	<0.10	<0.1
528.	19.01	36.367	2.69	-	-	-	-	-	<0.10	9.8
529.	17.09	36.289	2.72	-	-	-	-	-	<0.10	11.9
530.	12.72	35.795	2.78	-	-	-	-	-	<0.10	17.6
531.	8.09	35.199	2.67	-	-	-	-	-	<0.10	28.1
532.	7.43	34.984	2.78	-	-	-	-	-	<0.10	33.3
533.	6.14	34.900	3.22	-	-	-	-	-	<0.10	31.9
534.	4.24	34.974	4.92	-	-	-	-	-	<0.10	21.8
535.	4.26	34.977	4.91	-	-	-	-	-	<0.10	20.7

536. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

		Dissolved trace metals								Dissol	
		(μg/L)								(μ	
537.											
538.											
539. Station 43		Lat (N): 24° 59.3'		Long (W): 95° 29.7'							
540.	26.63	34.969	4.84	-	-	-	-	-	-	<0.10	<0.1
541.	26.27	36.354	4.82	-	-	-	-	-	-	<0.10	<0.1
542.	23.52	36.259	5.23	-	-	-	-	-	-	<0.10	<0.1
543.	21.72	36.257	4.68	-	-	-	-	-	-	<0.10	<0.1
544.	19.20	36.388	2.72	-	-	-	-	-	-	<0.10	20.8
545.	17.59	36.292	2.77	-	-	-	-	-	-	<0.10	13.0
546.	13.76	35.784	2.59	-	-	-	-	-	-	<0.10	20.1
547.	9.87	35.181	2.72	-	-	-	-	-	-	<0.10	29.9
548.	7.90	34.978	2.83	-	-	-	-	-	-	<0.10	32.5
549.	6.30	34.891	3.14	-	-	-	-	-	-	<0.10	32.7
550.	4.20	34.973	4.92	-	-	-	-	-	-	<0.10	20.7
551.	4.25	34.980	5.05	-	-	-	-	-	-	0.21	21.5
552. Station 44		Lat (N): 25° 30.5'		Long (W): 95° 30.8'							
553.	25.99	35.599	4.94	-	-	-	-	-	-	<0.10	<0.1
554.	23.55	36.245	4.97	-	-	-	-	-	-	<0.10	<0.1
555.	23.01	36.245	5.19	-	-	-	-	-	-	<0.10	<0.1
556.	21.53	36.267	4.54	-	-	-	-	-	-	<0.10	<0.1
557.	19.41	36.265	3.07	-	-	-	-	-	-	0.11	7.6
558.	17.84	36.357	2.89	-	-	-	-	-	-	<0.10	8.2
559.	13.89	36.285	2.93	-	-	-	-	-	-	0.68	19.1
560.	9.95	35.780	2.61	-	-	-	-	-	-	0.19	31.6
561.	7.88	35.202	2.81	-	-	-	-	-	-	0.10	36.4
562.	6.30	34.975	3.22	-	-	-	-	-	-	<0.10	34.4
563.	4.74	34.885	4.23	-	-	-	-	-	-	<0.10	29.5
564.	4.74	34.938	4.78	-	-	-	-	-	-	<0.10	26.0

565. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

566. 567. 568. 569.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
570. Station 45		Lat (N): 26° 1.3'		Long (W): 96° 1.5'						
571.	25.98	36.232	4.86	4.9	3.2	10	0.47	6.8	<0.10	<0.1
572.	23.91	36.231	4.81	4.1	1.5	7.7	1.4	5.3	<0.10	<0.1
573.	21.52	36.250	4.58	7.7	3.2	11	0.06	76	<0.10	<0.1
574.	18.84	36.365	2.62	4.5	3.2	6.9	1.1	8.0	<0.10	13.9
575.	17.83	36.301	2.69	6.5	3.7	11	0.56	7.7	0.17	15.2
576.	13.83	36.232	-	-	-	-	-	-	-	-
577.	9.85	35.181	2.77	6.8	2.4	4.0	0.31	9.0	0.55	30.0
578.	7.93	34.982	2.75	0.91	2.0	2.5	0.32	23	<0.10	38.1
579.	6.39	34.986	3.12	0.91	2.2	2.5	0.48	6.7	0.11	38.7
580.	5.60	34.898	3.57	1.8	2.7	3.5	0.46	9.0	0.25	35.6
581.	5.08	34.918	4.00	7.7	3.1	3.0	0.46	14	0.30	32.3
582. Station 46		Lat (N): 27° 0.6'		Long (W): 96° 0.2'						
583.	25.76	36.265	4.86	-	-	-	-	-	<0.10	<0.1
584.	23.32	36.241	5.28	11	4.8	10	0.44	12	<0.10	<0.1
585.	21.49	36.213	4.95	10	6.0	20	0.22	23	<0.10	<0.1
586.	18.71	36.335	2.70	10	3.4	26	0.16	11	0.43	14.4
587.	15.10	35.854	2.93	6.7	1.5	6.8	0.25	8.8	0.11	18.4
588.	13.77	35.764	2.88	4.9	6.1	23	0.75	8.0	0.36	23.7
589.	11.75	35.555	2.88	1.6	2.3	14	0.28	5.8	<0.10	27.2
590.	9.91	35.248	2.80	2.0	2.5	11	0.25	5.7	0.11	31.8
591.	7.90	34.970	2.81	6.9	4.1	17	0.34	18	0.12	38.4
592.	6.35	34.887	3.28	-	-	-	-	-	<0.10	38.4
593.	5.62	34.901	3.59	2.9	2.9	13	0.59	34	<0.10	37.4

594. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

595. 596. 597. 598.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
599. Station 47		Lat (N): 27° 45.4'		Long (W): 96° 9.4'						
600.	25.70	36.110	4.82	21	2.0	2.0	0.13	5.5	<0.10	<0.1
601.	23.66	36.107	4.89	15	1.2	<1.6	<0.06	5.7	<0.10	<0.1
602.	21.78	36.236	4.70	11	3.9	15	1.2	7.6	<0.10	<0.1
603.	21.78	36.265	4.66	24	3.2	6.4	0.16	5.3	<0.10	<0.1
604.	21.60	36.265	4.54	13	3.0	14	0.59	5.3	<0.10	0.3
605. Station 48		Lat (N): 27° 0.0'		Long (W): 96° 42.7'						
606.	25.32	35.942	4.47	1.2	1.7	1.6	<0.06	5.1	<0.10	<0.1
607.	25.33	35.945	4.28	12	1.4	<1.6	0.28	4.4	<0.10	<0.1
608.	24.08	35.953	4.71	19	1.8	<1.6	<0.06	4.7	<0.10	<0.1
609.	20.30	36.309	3.35	2.4	1.3	1.8	<0.06	4.5	0.48	5.1
610.	19.74	36.336	2.96	15	1.5	<1.6	<0.06	4.9	0.27	9.7
611. Station 49		Lat (N): 26° 0.7'		Long (W): 96° 35.2'						
612.	25.85	35.739	4.70	13	<0.60	<1.8	<0.06	5.8	<0.10	<0.1
613.	25.85	35.925	4.66	1.2	0.90	<1.8	0.09	4.5	<0.10	<0.1
614.	24.99	36.078	4.73	1.2	2.0	1.8	<0.06	6.0	<0.10	<0.1
615.	23.21	36.079	4.62	4.8	1.2	1.8	<0.06	4.4	<0.10	<0.1
616.	23.00	36.080	4.78	4.5	0.80	<1.6	0.06	7.2	<0.10	<0.1
617.	23.11	36.267	4.74	2.4	2.0	<1.6	<0.06	13	<0.10	<0.1

618. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

619. 620. 621. 622.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
623. Station 50		Lat (N): 25° 29.8'		Long (W): 96° 37.7'						
624.	25.85	36.050	4.94	6.9	2.0	<1.8	0.31	5.6	<0.10	<0.1
625.	25.86	36.050	4.87	2.5	2.3	<1.8	0.16	6.9	<0.10	<0.1
626.	24.91	36.084	4.92	8.1	3.4	<1.8	0.22	11	<0.10	<0.1
627.	23.92	36.224	5.05	3.1	<0.50	<1.8	0.25	5.5	<0.10	<0.1
628.	21.96	36.481	4.02	41	0.92	1.9	<0.06	4.0	0.31	1.0
629.	19.77	36.314	3.31	7.5	1.5	<1.8	<0.06	3.8	<0.10	6.7
630. Station 51		Lat (N): 25° 0.4'		Long (W): 96° 39.8'						
631.	25.79	35.970	-	-	-	-	-	-	<0.10	<0.1
632.	25.77	35.944	4.79	5.0	1.5	1.2	<0.06	14	<0.10	<0.1
633.	22.28	36.261	4.33	6.2	1.2	4.7	<0.06	16	<0.10	0.5
634.	18.25	36.335	2.75	7.5	2.2	2.1	0.16	5.8	<0.10	15.9
635.	14.13	35.835	2.61	33	0.50	<1.8	0.16	15	<0.10	24.5
636. Station 52		Lat (N): 23° 26.1'		Long (W): 97° 22.1'						
637.	26.02	36.115	4.15	0.59	<0.53	<1.2	<0.06	3.9	<0.10	<0.1
638.	26.05	36.235	3.60	5.9	<0.53	3.8	<0.06	5.0	<0.10	<0.1
639.	25.53	36.285	4.45	8.8	<0.53	<1.5	<0.06	5.3	<0.10	0.7
640.	23.30	36.271	4.78	2.9	<0.53	<1.0	<0.06	3.4	<0.10	0.9
641.	22.31	36.264	4.74	4.7	<0.53	1.2	<0.06	5.8	<0.10	0.4
642.	21.77	36.278	4.28	10	1.7	1.8	0.28	7.2	<0.10	<0.1

643. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

644. 645. 646. 647.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
648. Station 53		Lat (N): 23° 30.5'		Long (W): 96° 59.4'						
649.	26.55	36.415	4.82	4.7	1.8	1.8	0.14	10	<0.10	<0.1
650.	24.06	36.350	5.08	6.7	1.8	1.8	0.13	8.0	<0.10	<0.1
651.	21.47	36.250	4.42	4.7	2.3	<1.4	0.16	9.2	0.12	<0.1
652.	19.93	36.382	2.81	30	1.6	<1.4	0.16	9.9	-	6.9
653.	17.92	36.318	2.73	3.3	1.7	1.8	0.09	8.6	<0.10	15.1
654.	13.56	36.073	-	-	-	-	-	-	-	-
655.	9.96	35.212	2.62	15	1.4	2.2	0.17	1.7	0.86	39.1
656.	6.22	34.890	3.28	14	<0.53	1.8	0.16	1.7	-	40.4
657.	5.89	34.903	3.39	7.1	2.0	<1.4	0.22	2.3	<0.10	52.7
658.	4.70	34.011	4.37	7.1	<0.53	<1.2	0.20	1.4	<0.10	37.7
659. Station 54		Lat (N): 23° 30.5'		Long (W): 96° 29.7'						
660.	26.59	36.247	5.15	3.0	1.6	3.4	0.14	5.0	<0.10	<0.1
661.	24.70	36.464	4.78	11	1.3	3.4	0.21	11	<0.10	<0.1
662.	21.95	36.252	4.63	1.8	1.1	<1.4	<0.07	5.3	<0.10	<0.1
663.	19.24	-	3.65	-	-	-	-	-	0.14	2.6
664.	17.96	36.283	2.67	3.6	2.2	<1.4	0.18	8.2	0.15	14.9
665.	13.76	35.742	2.69	9.1	1.7	<1.4	<0.07	3.9	0.87	23.5
666.	9.90	35.211	2.54	18	3.5	3.1	0.28	12	-	36.9
667.	6.05	34.894	3.17	1.8	1.5	<1.4	0.18	3.2	-	42.3
668.	4.23	34.970	4.86	10	2.2	5.8	0.24	10	-	25.1
669.	4.21	34.975	5.05	6.0	1.8	7.3	0.16	5.4	0.22	26.2

670. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

671. 672. 673. 674.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
675. Station 55		Lat (N): 23° 29.2'		Long (W): 95° 55.6'						
676.	26.29	35.736	4.68	3.5	1.6	23	<0.06	38	<0.10	<0.1
677.	21.41	36.257	4.18	10	3.5	2.6	0.19	6.4	<0.10	<0.1
678.	19.26	36.454	2.73	7.1	1.8	1.8	0.07	10	<0.10	9.0
679.	17.73	36.307	2.73	16	2.3	1.8	0.49	9.2	<0.10	11.9
680.	13.80	35.782	2.67	8.2	1.6	1.8	0.14	24	0.10	25.0
681.	9.88	35.228	2.57	5.3	1.3	1.8	0.18	6.6	<0.10	38.6
682.	6.48	34.899	3.12	2.9	0.84	<1.2	0.14	5.0	<0.10	52.4
683.	4.22	34.969	4.94	19	0.76	2.8	0.07	9.9	<0.10	34.5
684.	4.24	34.975	5.07	1.2	0.61	<1.4	0.14	5.7	<0.10	31.6
685. Station 56		Lat (N): 22° 39.1'		Long (W): 96° 27.2'						
686.	25.30	36.217	4.84	5.4	1.3	1.4	<0.06	3.8	<0.10	<0.1
687.	22.04	36.245	4.50	3.0	1.6	<1.4	0.09	4.7	<0.10	<0.1
688.	17.90	36.258	2.67	1.8	1.5	<1.4	<0.06	5.3	0.27	20.2
689.	9.78	35.215	2.61	2.4	1.0	3.0	0.16	3.9	0.47	46.5
690.	7.86	35.021	2.89	1.8	1.2	<1.4	0.09	6.0	0.13	50.4
691.	4.22	34.967	4.97	9.4	1.3	<1.2	0.16	9.8	0.90	34.1
692.	4.21	34.977	5.08	3.5	2.3	<1.2	<0.06	12	<0.10	33.8

693. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

694. 695. 696. 697.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
698. Station 57		Lat (N): 22° 39.2'		Long (W): 97° 6.2'						
699.	26.02	-	2.91	-	-	-	-	-	<0.10	<0.1
700.	22.83	36.252	2.49	19	2.2	<1.2	0.06	3.9	<0.10	<0.1
701.	21.68	36.264	3.02	1.8	2.4	<1.2	0.06	5.5	0.19	<0.1
702.	18.71	36.354	2.56	1.2	2.3	1.2	<0.06	3.4	<0.10	19.8
703.	17.93	36.260	2.64	5.9	1.5	<1.2	<0.06	3.1	<0.10	22.5
704.	13.91	35.782	2.75	0.61	2.1	3.4	0.13	3.9	<0.10	33.6
705.	9.85	35.191	2.59	1.2	2.2	<1.4	<0.06	3.5	<0.10	50.6
706.	6.15	34.894	3.26	1.8	1.8	<1.4	<0.06	3.6	0.10	54.4
707.	4.62	34.942	4.39	4.2	2.0	<1.4	0.13	4.7	0.30	41.9
708.	4.24	34.976	4.68	2.4	1.5	1.4	0.13	3.7	<0.10	37.9
709. Station 58		Lat (N): 22° 0.1'		Long (W): 96° 54.4'						
710.	26.09	35.921	4.89	8.8	5.8	1.2	<0.06	6.4	<0.10	<0.1
711.	23.54	36.015	4.99	4.7	8.1	<1.0	<0.06	6.1	<0.10	<0.1
712.	21.90	36.275	4.21	1.8	5.2	2.0	0.15	4.9	<0.10	<0.1
713.	18.79	36.368	2.62	1.2	8.3	2.5	<0.06	4.2	0.53	15.3
714.	13.81	35.777	2.73	5.9	8.5	1.5	0.24	10	-	28.8
715.	9.88	35.220	2.57	9.4	7.9	1.2	0.23	6.5	0.19	52.0
716.	7.88	35.191	2.85	5.3	5.8	<1.2	0.15	6.3	0.43	48.2
717.	6.37	34.895	3.15	4.7	7.7	<1.2	0.12	3.5	0.24	56.6
718.	4.37	34.959	4.65	1.2	6.4	<1.2	0.11	4.2	<0.10	44.7
719.	4.20	34.972	4.95	2.3	8.1	1.2	0.15	4.4	<0.10	41.5

720. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

721. 722. 723. 724.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
725. Station 59		Lat (N): 21° 55.1'		Long (W): 96° 18.3'						
726.	26.68	36.337	4.65	4.4	5.4	2.1	<0.06	-	<0.10	<0.1
727.	23.76	36.345	4.76	6.9	5.2	6.4	0.7	-	<0.10	<0.1
728.	21.38	36.255	4.25	5.0	5.2	2.1	<0.06	-	0.12	0.4
729.	18.36	36.340	2.64	20	4.3	2.9	0.21	-	0.29	19.7
730.	13.66	35.733	2.69	4.4	6.9	2.1	0.12	-	0.28	37.0
731.	9.85	35.200	2.62	39	5.7	1.2	0.37	-	<0.10	55.2
732.	7.83	35.003	2.77	4.7	8.4	<1.0	0.18	-	0.15	60.0
733.	6.36	34.912	3.10	1.2	7.1	3.4	0.18	-	0.28	57.0
734.	4.24	-	-	-	-	-	-	-	-	-
735.	4.23	34.978	5.05	2.9	6.5	2.2	0.06	-	<0.10	41.6
736. Station 60		Lat (N): 20° 59.8'		Long (W): 96° 12.3'						
737.	26.56	36.390	4.79	2.2	3.9	4.4	0.26	-	<0.10	<0.1
738.	23.20	36.268	5.26	10	-	1.7	0.06	-	<0.10	<0.1
739.	21.95	36.247	4.57	4.3	-	3.9	0.06	-	<0.10	<0.1
740.	18.68	36.303	2.44	2.7	-	2.4	0.37	-	-	20.5
741.	13.95	35.760	2.67	-	-	-	-	-	0.14	25.7
742.	7.92	35.787	3.44	2.5	4.9	2.9	0.52	-	-	36.6
743.	6.14	-	-	-	-	-	-	-	-	-
744.	4.46	34.953	4.54	3.7	3.7	2.5	0.23	-	<0.10	47.3
745.	4.21	34.972	4.97	3.7	7.5	2.1	0.21	-	<0.10	44.1

746. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

747. 748. 749. 750.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
751. Station 61		Lat (N): 19° 59.6'		Long (W): 96° 0.4'						
752.	26.56	36.332	4.74	8.8	4.2	3.0	0.16	18	<0.10	<0.1
753.	24.27	36.270	5.10	7.2	9.1	2.1	0.23	14	<0.10	<0.1
754.	21.56	36.249	4.39	8.0	8.6	2.4	0.30	12	<0.10	<0.1
755.	18.80	36.368	2.69	4.8	6.2	2.4	0.23	10	0.12	13.6
756.	17.59	36.293	2.73	2.7	-	1.5	0.19	9.2	0.13	16.1
757.	13.85	35.768	2.70	3.2	-	1.9	0.06	7.8	0.14	31.3
758.	9.92	35.200	2.59	5.4	-	1.9	0.29	8.5	<0.10	56.7
759.	6.34	34.896	3.14	1.6	-	1.5	0.26	8.3	<0.10	61.8
760.	4.29	34.960	4.76	6.5	-	1.7	0.42	9.4	<0.10	43.2
761.	4.20	34.971	5.00	3.8	-	1.9	0.05	-	<0.10	40.6
762. Station 62		Lat (N): 19° 49.3'		Long (W): 95° 35.7'						
763.	27.01	36.320	4.65	0.59	2.8	4.8	<0.06	11	<0.10	<0.1
764.	23.59	36.266	5.19	1.2	3.1	1.2	<0.06	5.1	<0.10	<0.1
765.	21.83	36.242	4.55	0.59	2.3	1.2	<0.06	5.3	<0.10	<0.1
766.	19.01	36.378	2.72	2.3	4.2	1.2	0.15	4.5	<0.10	18.2
767.	17.99	36.283	2.73	2.4	6.2	2.1	<0.06	6.9	<0.10	23.7
768.	13.76	35.761	2.69	4.0	4.6	1.8	0.5	5.0	<0.10	37.6
769.	9.79	35.190	2.59	1.6	4.6	1.8	0.18	6.5	<0.10	56.4
770.	6.44	34.898	3.12	3.2	5.8	3.0	0.06	10	<0.10	62.4
771.	4.22	34.967	4.87	5.9	5.5	2.4	<0.06	6.5	<0.10	42.8
772.	4.20	34.974	5.05	4.8	7.3	3.0	0.23	13	<0.10	42.8

773. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

774. 775. 776. 777.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
778. Station 63			Lat (N): 20° 12.9'	Long (W): 94° 57.0'						
779.	27.12	36.382	4.79	-	-	-	-	-	<0.10	<0.1
780.	25.39	36.372	4.52	-	-	-	-	-	<0.10	<0.1
781.	21.82	36.261	4.70	-	-	-	-	-	<0.10	<0.1
782.	19.15	36.365	2.77	-	-	-	-	-	0.14	3.5
783.	17.88	36.364	2.67	-	-	-	-	-	0.19	4.6
784.	13.91	35.836	2.75	-	-	-	-	-	-	8.0
785.	9.96	35.217	2.61	-	-	-	-	-	-	11.5
786.	5.81	34.893	3.49	-	-	-	-	-	-	13.6
787.	4.14	34.968	5.07	-	-	-	-	-	-	10.0
788.	4.17	34.973	5.07	-	-	-	-	-	-	9.9
789. Station 64			Lat (N): 19° 38.8'	Long (W): 94° 54.3'						
790.	26.93	36.282	4.74	-	-	-	-	-	<0.10	<0.1
791.	23.40	36.293	5.00	-	-	-	-	-	<0.10	<0.1
792.	21.95	36.247	4.68	-	-	-	-	-	<0.10	<0.1
793.	13.83	35.793	2.75	-	-	-	-	-	<0.10	8.2
794.	8.00	34.992	2.70	-	-	-	-	-	-	14.0
795.	6.07	34.892	3.31	-	-	-	-	-	-	13.4
796.	4.20	34.968	4.97	-	-	-	-	-	-	9.4
797.	4.24	34.973	5.07	-	-	-	-	-	-	8.8

798. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

799. 800. 801. 802.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
803.	Station 65	Lat (N): 19° 29.0'		Long (W): 94° 2.2'						
804.	27.22	35.428	4.70	-	-	-	-	-	<0.10	<0.1
805.	23.42	36.149	4.73	-	-	-	-	-	<0.10	<0.1
806.	21.50	36.245	4.58	-	-	-	-	-	<0.10	<0.1
807.	18.44	36.348	2.65	-	-	-	-	-	0.24	4.6
808.	17.61	36.254	2.72	-	-	-	-	-	0.12	5.4
809.	13.83	35.754	2.30	-	-	-	-	-	<0.10	8.5
810.	11.39	35.395	2.57	-	-	-	-	-	<0.10	11.2
811.	6.22	34.896	2.93	-	-	-	-	-	<0.10	14.2
812.	5.21	34.913	3.26	-	-	-	-	-	<0.10	12.8
813.	4.55	-	-	-	-	-	-	-	<0.10	10.9
814.	Station 66	Lat (N): 18° 59.9'		Long (W): 94° 0.4'						
815.	26.71	35.045	5.28	7.1	4.6	1.6	<0.06	64	<0.10	<0.1
816.	26.72	36.250	5.27	4.7	3.5	2.4	<0.06	5.6	<0.10	<0.1
817.	21.92	36.260	4.33	2.3	8.1	2.4	<0.06	7.2	<0.10	<0.1
818.	19.63	36.389	2.72	1.2	3.3	4.9	<0.06	4.7	<0.10	3.8
819.	11.91	35.482	2.52	8.8	3.6	1.9	0.15	5.0	<0.10	10.9
820.	6.66	34.903	3.04	2.3	3.5	3.0	0.18	15	<0.10	14.9

821. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

822. 823. 824. 825.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
826. Station 67		Lat (N): 19° 4.4'		Long (W): 94° 59.7'						
827.	26.63	36.310	5.25	-	-	-	-	-	<0.10	<0.1
828.	22.07	36.238	5.30	14	3.9	3.8	0.18	11	<0.10	<0.1
829.	21.37	36.247	4.80	4.2	3.7	2.0	0.3	12	<0.10	0.1
830.	19.58	36.335	2.78	6.7	6.1	2.5	0.21	19	<0.10	7.5
831.	17.21	36.233	2.91	15	4.9	1.8	0.21	11	<0.10	10.5
832.	13.63	35.202	3.15	3.3	5.2	3.0	0.3	13	0.21	16.3
833.	9.80	35.751	2.83	7.5	6.1	2.2	0.15	8.3	0.17	26.3
834.	6.42	34.896	3.28	7.5	5.7	2.4	0.27	5.0	-	24.5
835.	4.65	34.938	4.39	8.3	3.7	3.0	0.12	6.3	0.14	23.4
836.	4.22	34.967	5.00	3.3	4.3	1.6	<0.06	18	-	21.2
837. Station 68		Lat (N): 19° 10.7'		Long (W): 95° 33.7'						
838.	22.38	36.237	4.38	-	-	-	-	-	<0.10	0.3
839.	17.78	36.278	2.70	-	-	-	-	-	<0.10	9.2
840.	9.93	35.230	2.60	-	-	-	-	-	0.12	22.1
841.	7.91	35.028	2.70	-	-	-	-	-	-	24.2
842.	5.83	34.893	3.44	-	-	-	-	-	<0.10	26.2
843.	5.13	34.909	3.89	-	-	-	-	-	<0.10	24.6

844. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

845. 846. 847. 848.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
849. Station 69		Lat (N): 20° 56.8'		Long (W): 94° 56.7'						
850.	26.72	36.395	4.94	-	-	-	-	-	<0.10	<0.1
851.	23.05	36.248	5.28	-	-	-	-	-	<0.10	<0.1
852.	22.00	36.257	4.67	-	-	-	-	-	<0.10	<0.1
853.	19.26	36.378	2.84	-	-	-	-	-	<0.10	4.8
854.	18.16	36.315	2.65	-	-	-	-	-	<0.10	5.7
855.	13.80	35.787	2.74	-	-	-	-	-	<0.10	12.5
856.	9.75	35.208	2.58	-	-	-	-	-	0.10	21.5
857.	5.94	34.892	3.78	-	-	-	-	-	0.13	23.9
858.	4.22	34.967	4.94	-	-	-	-	-	0.17	16.0
859.	4.25	35.068	4.81	-	-	-	-	-	0.28	15.3
860. Station 70		Lat (N): 22° 0.1'		Long (W): 94° 59.6'						
861.	26.85	36.465	4.73	-	-	-	-	-	<0.10	<0.1
862.	22.43	36.316	5.13	-	-	-	-	-	<0.10	<0.1
863.	21.51	36.349	4.30	-	-	-	-	-	<0.10	<0.1
864.	18.32	36.357	2.78	-	-	-	-	-	<0.10	6.7
865.	17.80	36.255	2.73	-	-	-	-	-	<0.10	7.9
866.	13.73	35.690	2.70	-	-	-	-	-	<0.10	14.7
867.	9.93	35.213	2.60	-	-	-	-	-	<0.10	20.6
868.	6.07	34.896	3.30	-	-	-	-	-	<0.10	24.2
869.	4.23	34.970	4.93	-	-	-	-	-	<0.10	16.7
870.	4.25	34.984	5.23	-	-	-	-	-	<0.10	14.8

871. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

872. 873. 874. 875.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
876. Station 71		Lat (N): 22° 59.7'		Long (W): 94° 31.2'						
877.	26.53	36.367	4.41	-	-	-	-	-	<0.10	<0.1
878.	23.26	36.257	2.71	-	-	-	-	-	<0.10	<0.1
879.	20.84	36.251	4.43	-	-	-	-	-	<0.10	<0.1
880.	18.44	36.379	3.59	-	-	-	-	-	<0.10	6.6
881.	18.04	36.296	2.70	-	-	-	-	-	<0.10	7.5
882.	13.72	35.936	2.78	-	-	-	-	-	<0.10	11.3
883.	9.98	35.201	2.60	-	-	-	-	-	<0.10	22.3
884.	6.03	34.893	3.28	-	-	-	-	-	<0.10	23.8
885.	4.27	34.963	4.85	-	-	-	-	-	<0.10	15.9
886.	4.26	35.356	3.91	-	-	-	-	-	<0.10	13.0
887. Station 72		Lat (N): 23° 59.6'		Long (W): 93° 1.1'						
888.	25.96	36.398	4.85	-	-	-	-	-	<0.10	<0.1
889.	23.46	36.395	4.93	-	-	-	-	-	<0.10	<0.1
890.	22.07	36.246	4.54	-	-	-	-	-	<0.10	<0.1
891.	19.01	36.398	2.73	-	-	-	-	-	<0.10	6.6
892.	18.22	36.318	2.73	-	-	-	-	-	<0.10	13.0
893.	13.68	35.762	2.68	-	-	-	-	-	0.10	4.5
894.	10.05	35.177	2.57	-	-	-	-	-	0.29	18.8
895.	6.19	34.893	3.31	-	-	-	-	-	<0.10	24.9
896.	4.28	-	-	-	-	-	-	-	-	-
897.	4.26	36.952	5.04	-	-	-	-	-	<0.10	16.3

898. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

899. 900. 901. 902.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
903.	Station 73	Lat (N): 22° 57.5'		Long (W): 92° 56.2'						
904.	26.48	36.384	4.80	-	-	-	-	-	<0.10	<0.1
905.	23.16	36.252	5.27	-	-	-	-	-	<0.10	0.4
906.	22.02	36.272	4.60	-	-	-	-	-	<0.10	0.4
907.	18.54	36.215	2.76	-	-	-	-	-	<0.10	9.5
908.	18.08	36.286	2.71	-	-	-	-	-	<0.10	8.7
909.	13.61	35.746	2.65	-	-	-	-	-	<0.10	14.7
910.	10.02	35.222	2.50	-	-	-	-	-	<0.10	22.7
911.	5.96	34.901	3.34	-	-	-	-	-	<0.10	26.3
912.	4.29	34.960	4.83	-	-	-	-	-	<0.10	18.0
913.	4.26	34.969	5.02	-	-	-	-	-	<0.10	16.7
914.	Station 74	Lat (N): 22° 0.0'		Long (W): 93° 0.1'						
915.	26.68	35.831	4.80	-	-	-	-	-	<0.10	<0.1
916.	26.62	36.548	4.90	-	-	-	-	-	<0.10	<0.1
917.	23.36	36.292	4.48	-	-	-	-	-	<0.10	0.1
918.	21.78	36.279	4.26	-	-	-	-	-	0.11	0.3
919.	19.24	36.369	2.81	-	-	-	-	-	-	5.5
920.	13.63	36.497	2.70	-	-	-	-	-	<0.10	16.5
921.	9.84	35.211	2.54	-	-	-	-	-	<0.10	25.5
922.	6.16	34.895	2.81	-	-	-	-	-	<0.10	28.1
923.	4.26	35.946	-	-	-	-	-	-	-	-
924.	4.25	34.972	5.13	-	-	-	-	-	0.18	17.1

925. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

926. 927. 928. 929.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
930. Station 75		Lat (N): 20° 55.8'		Long (W): 92° 59.8'						
931.	26.97	35.060	4.90	-	-	-	-	-	<0.10	<0.1
932.	22.75	36.247	5.09	-	-	-	-	-	<0.10	<0.1
933.	21.97	36.240	4.54	-	-	-	-	-	<0.10	<0.1
934.	18.21	36.328	2.54	-	-	-	-	-	<0.10	9.4
935.	17.59	36.257	3.07	-	-	-	-	-	<0.10	10.9
936.	13.67	35.822	2.71	-	-	-	-	-	<0.10	17.2
937.	9.99	35.219	2.60	-	-	-	-	-	<0.10	25.0
938.	5.88	34.897	3.34	-	-	-	-	-	<0.10	28.4
939.	4.27	34.972	5.04	-	-	-	-	-	<0.10	19.6
940. Station 76		Lat (N): 19° 45.4'		Long (W): 93° 0.2'						
941.	26.26	34.372	4.91	-	-	-	-	-	<0.10	<0.1
942.	23.14	36.252	5.32	-	-	-	-	-	<0.10	<0.1
943.	22.15	36.273	4.23	-	-	-	-	-	<0.10	0.4
944.	18.98	36.365	2.58	-	-	-	-	-	0.12	9.6
945.	17.62	36.244	2.68	-	-	-	-	-	<0.10	12.1
946.	10.00	35.216	2.50	-	-	-	-	-	<0.10	27.8
947.	7.80	34.994	2.71	-	-	-	-	-	<0.10	30.8
948.	5.97	34.902	3.41	-	-	-	-	-	<0.10	30.1
949.	5.03	34.927	4.04	-	-	-	-	-	0.15	24.0

950. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

951. 952. 953. 954.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
955. Station 77		Lat (N): 19° 2.9'		Long (W): 92° 55.0'						
956.	26.60	34.569	-	-	-	-	-	-	-	-
957.	26.74	34.580	4.80	7.6	2.8	1.5	0.12	6.8	<0.10	<0.1
958.	26.00	36.247	4.67	8.3	3.9	6.6	0.12	7.8	<0.10	<0.1
959.	22.65	36.263	4.54	7.6	3.3	3.0	0.24	18	<0.10	0.3
960.	19.64	36.346	2.96	48	4.2	2.0	0.18	6.7	<0.10	6.9
961.	18.37	36.310	2.67	34	6.9	5.6	0.39	13	<0.10	11.2
962. Station 78		Lat (N): 19° 15.0'		Long (W): 91° 59.8'						
963.	27.07	35.998	4.73	2.8	3.1	1.5	0.27	5.5	<0.10	<0.1
964.	27.08	35.999	4.57	3.4	6.3	1.5	<0.06	7.8	<0.10	<0.1
965.	27.10	36.031	4.30	4.1	5.3	3.0	<0.06	5.7	0.13	<0.1
966. Station 79		Lat (N): 19° 52.3'		Long (W): 92° 0.6'						
967.	26.85	35.568	5.04	5.3	6.5	14	0.27	15	<0.10	<0.1
968.	26.76	36.165	4.64	4.7	4.9	2.3	0.18	19	<0.10	<0.1
969.	25.34	36.163	4.48	12	8.9	3.0	0.15	18	0.22	0.2
970.	23.70	36.198	4.46	7.3	3.0	2.3	0.18	16	0.26	0.6
971.	22.86	36.251	4.33	8.0	2.6	<1.5	0.15	18	<0.10	0.9
972.	-	36.248	4.31	7.3	2.6	2.3	0.06	14	<0.10	0.9
973. Station 80		Lat (N): 20° 59.4'		Long (W): 91° 0.4'						
974.	25.84	36.572	4.83	3.3	3.2	<1.5	0.06	13	<0.10	0.1
975.	25.85	36.571	4.73	2.7	3.9	1.5	0.06	12	<0.10	<0.1
976.	25.85	36.571	4.75	3.3	2.8	5.7	0.12	11	<0.10	<0.1
977.	25.85	36.571	4.78	2.0	3.2	4.5	0.15	11	<0.10	<0.1

978. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

979. 980. 981. 982.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
983. Station 81		Lat (N): 22° 1.2'		Long (W): 90° 58.2'						
984.	25.81	36.498	4.59	14	14	<1.5	0.18	13	<0.10	<0.1
985.	25.81	36.498	4.57	13	4.4	2.2	0.18	8.2	<0.10	<0.1
986.	25.82	36.497	4.57	8.9	3.7	3.0	0.12	11	<0.10	<0.1
987.	25.81	35.008	-	-	-	-	-	-	-	-
988.	25.81	36.499	4.67	5.2	4.5	5.6	0.27	11	<0.10	<0.1
989.	25.82	36.498	4.73	5.9	4.4	<1.5	0.18	12	<0.10	<0.1
990. Station 82		Lat (N): 22° 59.9'		Long (W): 90° 59.9'						
991.	25.90	-	4.85	-	-	-	-	-	<0.10	0.1
992.	23.27	36.397	4.78	-	-	-	-	-	<0.10	0.1
993.	22.43	36.358	4.62	-	-	-	-	-	<0.10	<0.1
994.	18.69	36.412	2.88	-	-	-	-	-	<0.10	6.4
995.	18.26	36.322	3.02	-	-	-	-	-	0.17	5.4
996.	13.64	35.758	2.76	-	-	-	-	-	0.10	14.1
997.	10.05	35.199	2.62	-	-	-	-	-	<0.10	25.4
998.	6.06	35.203	2.58	-	-	-	-	-	<0.10	25.7
999.	4.29	34.966	4.82	-	-	-	-	-	<0.10	19.9
1000.	4.26	34.979	5.07	-	-	-	-	-	<0.10	19.6

1001. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1002. 1003. 1004. 1005.	Depth (°C)	Temperature (‰)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1006. 56.4'	Station 83			Lat (N): 23° 58.8' Date: 11/5/76			Long (W): 90°			
1007.	25.35	36.335	5.06	-	-	-	-	-	<0.10	<0.1
1008.	22.79	36.445	4.52	-	-	-	-	-	<0.10	<0.1
1009.	22.36	36.271	4.56	-	-	-	-	-	<0.10	<0.1
1010.	19.21	36.367	2.81	-	-	-	-	-	0.23	4.1
1011.	18.06	36.284	2.83	-	-	-	-	-	0.74	6.1
1012.	10.00	35.207	2.71	-	-	-	-	-	<0.10	19.7
1013.	6.31	34.898	3.20	-	-	-	-	-	<0.10	25.1
1014.	4.27	34.968	4.88	-	-	-	-	-	<0.10	15.8
1015.	4.26	34.974	5.13	-	-	-	-	-	<0.10	15.4
1016. 59.7'	Station 84			Lat (N): 23° 59.9' Date: 11/5/76			Long (W): 88°			
1017.	24.62	36.211	4.30	-	-	-	-	-	<0.10	<0.1
1018.	22.92	36.208	4.94	-	-	-	-	-	<0.10	<0.1
1019.	22.32	36.256	4.30	-	-	-	-	-	<0.10	<0.1
1020.	19.05	36.371	2.65	-	-	-	-	-	<0.10	5.5
1021.	17.79	36.269	2.67	-	-	-	-	-	<0.10	7.5
1022.	13.74	35.769	2.73	-	-	-	-	-	<0.10	11.4
1023.	9.92	-	2.67	-	-	-	-	-	<0.10	20.2
1024.	6.09	34.893	3.33	-	-	-	-	-	<0.10	23.7
1025.	4.29	34.964	4.82	-	-	-	-	-	0.10	15.5
1026.	4.27	34.975	5.02	-	-	-	-	-	<0.10	14.2

1027.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1028. 1029. 1030. 1031.	Depth (°C)	Temperature (‰)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µg/L)	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1032. 56.0'		Station 85		Lat (N): 22° 59.9'			Long (W): 88°			
		Date: 11/6/76								
1033.	25.74	36.349	4.60	-	-	-	-	-	<0.10	<0.1
1034.	25.75	36.348	4.73	-	-	-	-	-	<0.10	<0.1
1035.	25.76	36.348	4.80	-	-	-	-	-	<0.10	<0.1
1036.	22.96	36.305	4.67	-	-	-	-	-	<0.10	<0.1
1037.	22.70	36.345	4.06	-	-	-	-	-	<0.10	<0.1
1038. 0.0'		Station 86		Lat (N): 22° 0.3'			Long (W): 89°			
		Date: 11/6/76								
1039.	24.71	36.318	4.88	7.4	5.8	<1.5	0.26	9.2	<0.10	0.2
1040.	24.69	36.317	5.33	14	2.9	3.0	0.09	18	<0.10	<0.1
1041.	24.61	36.316	4.94	16	4.1	<1.5	0.18	14	<0.10	<0.1
1042.	24.03	36.299	4.28	6.7	3.4	3.0	<0.06	8.8	<0.10	<0.1
1043. 0.7'		Station 87		Lat (N): 22° 1.0'			Long (W): 87°			
		Date: 11/6/76								
1044.	24.92	36.171	5.06	59	2.9	2.0	<0.09	13	<0.10	<0.1
1045.	24.47	36.184	4.83	10	2.9	<1.4	0.17	20	<0.10	<0.1
1046.	24.25	36.230	4.86	9.0	3.1	<1.4	0.17	23	<0.10	<0.1
1047. 36.5'		Station 88		Lat (N): 22° 2.9'			Long (W): 86°			
		Date: 11/6/76								
1048.	26.84	36.038	4.75	7.1	3.5	2.0	0.13	7.0	<0.10	<0.1
1049.	26.16	36.045	4.59	32	3.4	<1.4	0.17	19	<0.10	<0.1
1050.	23.26	36.449	4.12	3.9	1.8	<1.4	0.22	19	0.15	1.0
1051.	21.37	36.503	3.96	34	2.3	3.7	0.22	12	0.50	1.8
1052.	20.31	36.501	3.62	2.6	1.4	<1.4	0.13	16	0.53	2.3
1053.	20.28	36.571	3.54	7.7	1.6	<1.4	0.09	10	0.48	2.6

1054.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1055. 1056. 1057. 1058.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1059. 12.0'	Station 89		Lat (N): 22° 3.4' Date: 11/7/76			Long (W): 86°				
1060.	27.52	36.110	4.65	-	-	-	-	-	<0.10	<0.1
1061.	23.72	36.769	3.80	16	-	4.3	<0.08	11	<0.10	1.0
1062.	21.77	36.847	3.80	5.7	-	5.9	0.33	5.6	<0.10	2.0
1063.	21.36	36.827	3.75	42	-	4.3	<0.08	9.1	<0.10	1.9
1064.	17.93	36.472	3.72	13	-	7.8	0.33	6.1	<0.10	4.7
1065.	8.53	35.086	2.91	5.7	-	4.7	0.24	16	<0.10	26.9
1066.	7.89	34.922	2.91	7.9	-	4.7	<0.08	7.6	<0.10	30.0
1067.	6.38	34.840	3.28	8.6	-	4.7	<0.08	7.6	<0.10	29.7
1068.	5.46	34.880	3.94	13	-	5.5	<0.08	13	<0.10	27.4
1069. 48.2'	Station 90		Lat (N): 22° 5.3' Date: 11/7/76			Long (W): 85°				
1070.	27.51	36.108	4.96	-	-	-	-	-	<0.10	<0.1
1071.	23.77	36.649	4.25	47	-	5.1	<0.08	8.1	<0.10	0.6
1072.	22.19	36.874	3.85	7.6	-	4.3	0.41	6.4	<0.10	1.8
1073.	21.19	36.863	3.80	9.4	-	5.1	<0.08	7.4	<0.10	1.6
1074.	17.94	36.469	3.81	3.5	-	5.1	0.28	7.8	<0.10	1.5
1075.	9.93	35.145	2.91	3.5	-	4.7	<0.08	5.9	0.29	21.4
1076.	6.74	34.841	3.17	1.2	-	5.1	<0.08	6.4	<0.10	30.9
1077.	4.28	34.966	4.94	25	-	4.3	<0.08	6.1	<0.10	20.0
1078.	4.20	34.973	5.74	24	-	5.9	<0.08	65	<0.10	19.3

1079.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1080. 1081. 1082. 1083.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1084. 24.3'	Station 91			Lat (N): 22° 6.4' Date: 11/7/76			Long (W): 85°			
1085.	27.72	36.989	4.90	-	-	-	-	-	<0.10	<0.1
1086.	24.48	36.769	4.07	11	-	3.1	<0.08	5.8	<0.10	0.8
1087.	17.99	36.425	3.72	4.5	-	3.3	0.16	8.1	<0.10	5.6
1088.	10.01	35.187	2.91	4.5	-	2.6	<0.08	5.6	<0.10	23.0
1089.	6.71	34.893	3.12	9.0	-	8.5	0.28	10	<0.10	31.7
1090.	4.18	34.998	5.41	18	-	6.4	0.61	6.4	0.20	18.6
1091. 59.8'	Station 92			Lat (N): 22° 10.2' Date: 11/7/76			Long (W): 84°			
1092.	27.40	36.104	4.83	-	-	-	-	-	<0.10	<0.1
1093.	25.73	36.219	-	10	1.5	7.5	0.17	7.2	<0.10	<0.1
1094.	24.12	36.727	4.10	28	2.1	10	0.13	10	<0.10	0.8
1095.	21.71	36.853	3.80	5.7	9.0	10	0.17	17	<0.10	2.0
1096.	19.95	36.681	3.72	4.3	2.6	8.5	0.09	12	<0.10	3.2
1097.	13.83	35.776	3.26	15	3.3	10	0.26	14	<0.10	15.9
1098.	9.88	35.191	2.84	11	4.1	7.5	0.22	12	0.40	27.1
1099.	6.41	34.873	3.85	5.0	1.2	4.0	0.17	7.7	<0.10	33.4
1100.	4.29	34.966	5.02	5.7	4.7	3.5	<0.09	9.6	<0.10	20.3
1101.	4.21	34.975	5.27	6.4	3.5	2.5	0.17	6.9	<0.10	20.1

1102.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1103. 1104. 1105. 1106.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1107. 46.6'	Station 93			Lat (N): 23° 13.5' Date: 11/7/76			Long (W): 84°			
1108.	26.81	36.085	4.85	-	-	-	-	-	<0.10	<0.1
1109.	25.55	36.243	4.51	-	-	-	-	-	<0.10	0.1
1110.	24.29	36.750	4.04	-	-	-	-	-	<0.10	1.2
1111.	21.72	36.853	3.68	-	-	-	-	-	<0.10	3.1
1112.	20.06	36.720	3.59	-	-	-	-	-	<0.10	4.4
1113.	13.55	35.779	3.26	-	-	-	-	-	<0.10	17.9
1114.	10.05	35.178	2.83	-	-	-	-	-	<0.10	30.7
1115.	6.43	34.876	3.20	-	-	-	-	-	0.14	34.6
1116.	4.20	34.976	5.15	-	-	-	-	-	<0.10	22.9
1117. 33.4'	Station 94			Lat (N): 22° 51.7' Date: 11/8/76			Long (W): 85°			
1118.	26.66	36.105	4.65	-	-	-	-	-	<0.10	<0.1
1119.	23.78	36.708	4.07	-	-	-	-	-	<0.10	1.0
1120.	21.69	36.907	3.73	-	-	-	-	-	<0.10	2.7
1121.	13.68	35.765	3.26	-	-	-	-	-	<0.10	2.7
1122.	9.89	35.339	3.01	-	-	-	-	-	<0.10	19.4
1123.	6.35	-	-	-	-	-	-	-	-	-
1124.	4.22	34.978	5.06	-	-	-	-	-	<0.10	23.7

1125. Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1126. 1127. 1128. 1129.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ		
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂	
1130. 18.6'	Station 95			Lat (N): 22° 32.8'			Long (W): 86°				
				Date: 11/8/76							
1131.	27.41	36.000	4.70	-	-	-	-	-	<0.10	<0.1	
1132.	26.39	36.032	5.03	-	-	-	-	-	<0.10	<0.1	
1133.	23.99	36.749	4.12	-	-	-	-	-	<0.10	1.4	
1134.	21.67	36.895	3.91	-	-	-	-	-	0.17	3.5	
1135.	17.91	36.452	3.70	-	-	-	-	-	<0.10	9.0	
1136.	13.50	35.691	3.26	-	-	-	-	-	<0.10	22.0	
1137.	9.84	35.142	2.89	-	-	-	-	-	<0.10	32.2	
1138.	6.37	34.872	3.31	-	-	-	-	-	<0.10	37.7	
1139.	5.67	-	-	-	-	-	-	-	-	-	
1140.	5.17	34.915	4.19	-	-	-	-	-	<0.10	33.6	
1141. 0.2'	Station 96			Lat (N): 23° 0.8'			Long (W): 87°				
				Date: 11/8/76							
1142.	21.86	36.021	4.91	-	-	-	-	-	<0.10	<0.1	
1143.	19.00	36.342	4.28	-	-	-	-	-	0.37	0.4	
1144.	13.84	36.467	3.47	-	-	-	-	-	1.24	7.1	
1145.	10.47	35.780	3.25	-	-	-	-	-	<0.10	19.7	

1146.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1147. 1148. 1149. 1150.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1151. 40.9'	Station 97			Lat (N): 23° 39.3'			Long (W): 85°			
				Date: 11/9/76						
1152.	26.53	36.109	4.80	-	-	-	-	-	<0.10	<0.1
1153.	25.76	36.284	4.40	-	-	-	-	-	<0.10	<0.1
1154.	25.76	36.758	3.99	-	-	-	-	-	<0.10	<0.1
1155.	22.25	36.884	3.78	-	-	-	-	-	<0.10	0.2
1156.	18.14	36.465	3.72	-	-	-	-	-	<0.10	5.7
1157.	13.79	35.828	3.26	-	-	-	-	-	0.46	12.6
1158.	18.23	35.214	2.86	-	-	-	-	-	0.45	25.0
1159.	5.89	34.848	3.52	-	-	-	-	-	0.11	29.5
1160.	4.27	-	-	-	-	-	-	-	-	-
1161.	4.26	35.022	5.01	-	-	-	-	-	0.16	22.5
1162. 38.5'	Station 98			Lat (N): 24° 40.1'			Long (W): 85°			
				Date: 11/9/76						
1163.	26.66	36.095	4.70	-	-	-	-	-	<0.10	0.3
1164.	25.90	36.253	4.44	-	-	-	-	-	<0.10	0.7
1165.	24.12	36.702	4.04	-	-	-	-	-	<0.10	1.5
1166.	21.53	36.887	3.85	-	-	-	-	-	0.10	2.7
1167.	18.05	36.444	3.62	-	-	-	-	-	-	7.0
1168.	13.78	35.742	3.20	-	-	-	-	-	-	17.3
1169.	9.89	35.144	2.92	-	-	-	-	-	<0.10	31.7
1170.	6.29	34.866	3.31	-	-	-	-	-	0.19	36.2
1171.	4.33	35.488	4.07	-	-	-	-	-	<0.10	20.4
1172.	4.26	34.973	5.19	-	-	-	-	-	-	22.9

1173.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1174. 1175. 1176. 1177.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1178. 0.7'		Station 99 Date: 11/10/76		Lat (N): 24° 29.5'			Long (W): 87°			
1179.	26.58	36.107	4.78	-	-	-	-	-	<0.10	<0.1
1180.	25.95	36.247	4.40	-	-	-	-	-	<0.10	<0.1
1181.	23.70	36.760	4.02	-	-	-	-	-	0.17	1.1
1182.	21.94	36.888	3.78	-	-	-	-	-	-	1.9
1183.	17.85	36.445	3.62	-	-	-	-	-	-	6.2
1184.	13.70	35.797	3.30	-	-	-	-	-	-	17.8
1185.	9.92	35.179	2.89	-	-	-	-	-	-	31.0
1186.	6.53	34.840	3.22	-	-	-	-	-	-	36.0
1187.	4.22	34.966	4.93	-	-	-	-	-	-	25.8
1188.	4.22	34.970	5.24	-	-	-	-	-	<0.10	24.6
1189. 19.8'		Station 100		Lat (N): 25° 20.4'			Long (W): 86°			
		Date: 11/10/76								
1190.	26.52	36.107	4.78	-	-	-	-	-	<0.10	<0.1
1191.	25.59	36.260	4.51	-	-	-	-	-	<0.10	<0.1
1192.	24.31	36.822	4.02	-	-	-	-	-	<0.10	0.9
1193.	22.16	36.877	3.67	-	-	-	-	-	0.14	1.0
1194.	17.98	36.434	3.65	-	-	-	-	-	<0.10	7.1
1195.	13.80	35.804	3.25	-	-	-	-	-	<0.10	18.5
1196.	9.94	35.187	2.83	-	-	-	-	-	0.15	28.9
1197.	6.38	34.871	3.25	-	-	-	-	-	<0.10	36.3
1198.	4.29	36.946	4.86	-	-	-	-	-	-	25.5
1199.	4.26	36.957	5.19	-	-	-	-	-	-	25.3

1200.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1201. 1202. 1203. 1204.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1205. 59.7'	Station 101			Lat (N): 26° 31.3'		Long (W): 85°				
				Date: 11/10/76						
1206.	24.25	36.124	4.83	-	-	-	-	-	<0.10	<0.1
1207.	22.93	36.154	4.82	-	-	-	-	-	<0.10	<0.1
1208.	20.46	37.110	3.26	-	-	-	-	-	<0.10	8.6
1209.	17.46	36.210	3.02	-	-	-	-	-	<0.10	14.1
1210.	14.41	35.740	3.01	-	-	-	-	-	<0.10	21.3
1211.	9.87	35.220	2.76	-	-	-	-	-	<0.10	32.5
1212.	8.14	35.116	3.28	-	-	-	-	-	<0.10	32.4
1213.	6.45	35.104	3.49	-	-	-	-	-	<0.10	32.0
1214.	4.32	-	4.83	-	-	-	-	-	-	-
1215.	4.24	34.978	5.14	-	-	-	-	-	0.21	23.8
1216. 29.7'	Station 102			Lat (N): 25° 39.5'		Long (W): 85°				
				Date: 11/11/76						
1217.	26.48	36.125	4.82	-	-	-	-	-	<0.10	<0.1
1218.	25.85	36.330	4.48	-	-	-	-	-	<0.10	0.4
1219.	24.40	36.797	3.98	-	-	-	-	-	<0.10	1.9
1220.	21.58	36.875	3.88	-	-	-	-	-	<0.10	2.7
1221.	18.05	36.481	3.64	-	-	-	-	-	<0.10	8.4
1222.	13.84	35.809	3.23	-	-	-	-	-	<0.10	19.6
1223.	9.76	35.252	3.15	-	-	-	-	-	<0.10	30.3
1224.	6.67	34.843	3.17	-	-	-	-	-	<0.10	38.9
1225.	4.25	35.687	4.44	-	-	-	-	-	<0.10	15.7
1226.	4.25	34.973	5.09	-	-	-	-	-	<0.10	26.3

1227.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1228. 1229. 1230. 1231.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1232. 45.2'	Station 103			Lat (N): 25° 59.7'			Long (W): 84°			
				Date: 11/11/76						
1233.	26.50	36.090	4.78	-	-	-	-	-	<0.10	<0.1
1234.	24.91	36.253	4.82	-	-	-	-	-	<0.10	<0.1
1235.	17.72	36.292	2.80	-	-	-	-	-	<0.10	15.9
1236.	10.03	35.176	2.86	-	-	-	-	-	<0.10	33.6
1237.	8.14	34.923	2.91	-	-	-	-	-	<0.10	39.6
1238.	6.50	34.868	3.23	-	-	-	-	-	<0.10	39.6
1239.	5.44	34.903	3.80	-	-	-	-	-	<0.10	35.6
1240. 59.7'	Station 104			Lat (N): 26° 14.6'			Long (W): 83°			
				Date: 11/11/76						
1241.	23.22	35.929	4.93	-	-	-	-	-	<0.10	<0.1
1242.	22.69	36.245	4.72	-	-	-	-	-	<0.10	<0.1
1243.	20.94	36.351	3.68	-	-	-	-	-	<0.10	3.3
1244.	17.53	36.261	2.92	-	-	-	-	-	<0.10	14.7
1245.	15.72	36.056	3.18	-	-	-	-	-	0.12	16.7
1246.	15.13	35.945	2.99	-	-	-	-	-	11.00	19.6
1247. 45.5'	Station 105			Lat (N): 25° 29.7'			Long (W): 83°			
				Date: 11/11/76						
1248.	24.49	36.084	4.78	-	-	-	-	-	<0.10	<0.1
1249.	24.45	36.082	4.77	-	-	-	-	-	<0.10	<0.1
1250.	24.43	36.085	4.80	-	-	-	-	-	<0.10	<0.1
1251.	23.26	36.093	4.73	-	-	-	-	-	<0.10	<0.1
1252.	22.53	36.348	4.30	-	-	-	-	-	0.18	0.5
1253.	21.66	36.359	3.98	-	-	-	-	-	0.27	2.0

1254.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1255. 1256. 1257. 1258.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1259. 19.4'	Station 106			Lat (N): 25° 18.7' Date: 11/12/76			Long (W): 84°			
1260.	26.24	36.080	4.78	-	-	-	-	-	<0.10	<0.1
1261.	24.33	36.175	4.86	-	-	-	-	-	<0.10	<0.1
1262.	23.98	36.108	4.80	-	-	-	-	-	<0.10	<0.1
1263.	22.85	36.761	3.86	-	-	-	-	-	<0.10	3.6
1264.	17.42	36.295	3.17	-	-	-	-	-	<0.10	14.7
1265.	15.64	36.088	3.22	-	-	-	-	-	<0.10	17.9
1266. 59.3'	Station 107			Lat (N): 25° 0.1' Date: 11/12/76			Long (W): 84°			
1267.	26.55	35.883	4.64	-	-	-	-	-	<0.10	<0.1
1268.	25.42	36.289	4.36	-	-	-	-	-	<0.10	0.1
1269.	24.16	36.668	3.99	-	-	-	-	-	<0.10	0.6
1270.	21.72	36.869	3.83	-	-	-	-	-	<0.10	1.1
1271.	18.01	36.427	3.57	-	-	-	-	-	<0.10	6.4
1272.	13.56	35.808	3.22	-	-	-	-	-	0.14	14.3
1273.	9.75	35.145	2.88	-	-	-	-	-	-	25.9
1274.	6.64	34.841	3.15	-	-	-	-	-	<0.10	32.7
1275.	4.24	34.986	5.72	-	-	-	-	-	<0.10	22.2
1276.	4.26	34.977	5.14	-	-	-	-	-	<0.10	22.2

1277.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1278. 1279. 1280. 1281.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ	
				O ₂	Fe	Mn	Cu	Cd	Zn	NO ₂
1282. 59.8'	Station 108			Lat (N): 24° 1.4'			Long (W): 84°			
				Date: 11/12/76						
1283.	26.31	36.138	4.85	-	-	-	-	-	<0.10	<0.1
1284.	25.41	36.355	4.28	-	-	-	-	-	<0.10	<0.1
1285.	24.20	36.791	3.99	-	-	-	-	-	<0.10	<0.1
1286.	21.46	36.859	3.68	-	-	-	-	-	<0.10	1.3
1287.	18.16	36.480	3.86	-	-	-	-	-	<0.10	3.4
1288.	13.67	35.735	2.86	-	-	-	-	-	-	8.4
1289.	10.08	35.162	3.25	-	-	-	-	-	0.11	22.2
1290.	6.40	34.871	3.25	-	-	-	-	-	<0.10	27.4
1291.	4.23	35.349	4.61	-	-	-	-	-	<0.10	13.5
1292.	4.27	34.971	5.99	-	-	-	-	-	<0.10	18.5
1293. 20.0'	Station 109			Lat (N): 24° 9.5'			Long (W): 84°			
				Date: 11/12/76						
1294.	25.66	35.954	4.82	-	-	-	-	-	<0.10	<0.1
1295.	23.03	36.164	5.35	-	-	-	-	-	0.50	2.4
1296.	22.49	36.682	3.81	-	-	-	-	-	<0.10	1.1
1297.	19.32	36.433	3.26	-	-	-	-	-	0.35	3.7
1298.	18.27	36.361	3.78	-	-	-	-	-	0.16	2.9
1299.	13.82	35.815	2.88	-	-	-	-	-	0.26	10.1
1300.	9.96	35.211	2.78	-	-	-	-	-	<0.10	21.4
1301.	6.55	34.783	3.17	-	-	-	-	-	0.46	24.4
1302.	4.24	34.965	4.94	-	-	-	-	-	<0.10	17.3
1303.	4.25	34.972	5.06	-	-	-	-	-	0.11	15.6

1304.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1305. 1306. 1307. 1308.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1309. 44.0'	Station 110			Lat (N): 24° 31.7'			Long (W): 83°			
				Date: 11/13/76						
1310.	24.61	35.787	4.86	-	-	-	-	-	<0.10	<0.1
1311.	23.89	35.982	4.83	-	-	-	-	-	<0.10	<0.1
1312.	21.72	36.547	3.78	-	-	-	-	-	<0.10	1.0
1313.	19.20	36.353	3.13	-	-	-	-	-	0.49	3.9
1314.	17.85	36.243	3.31	-	-	-	-	-	0.22	6.0
1315.	13.62	35.768	3.07	-	-	-	-	-	<0.10	12.5
1316.	9.93	35.146	2.80	-	-	-	-	-	<0.10	23.2
1317.	8.03	34.950	2.84	-	-	-	-	-	<0.10	26.7
1318.	6.23	35.457	3.31	-	-	-	-	-	<0.10	11.1
1319.	5.50	34.899	3.75	-	-	-	-	-	<0.10	24.3
1320. 51.1'	Station 111			Lat (N): 24° 4.3'			Long (W): 83°			
				Date: 11/13/76						
1321.	24.36	36.020	4.86	-	-	-	-	-	<0.10	<0.1
1322.	24.09	36.335	4.57	-	-	-	-	-	<0.10	<0.1
1323.	22.04	36.384	4.14	-	-	-	-	-	0.14	0.4
1324.	19.83	36.246	3.52	-	-	-	-	-	<0.10	2.9
1325.	17.54	36.273	3.09	-	-	-	-	-	<0.10	7.5
1326.	13.85	35.736	3.09	-	-	-	-	-	<0.10	12.8
1327.	9.87	35.174	2.84	-	-	-	-	-	<0.10	22.7
1328.	6.36	34.868	3.28	-	-	-	-	-	<0.10	27.2
1329.	4.22	34.968	5.07	-	-	-	-	-	<0.10	17.2
1330.	4.23	34.970	5.24	-	-	-	-	-	<0.10	17.3

1331.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1332. 1333. 1334. 1335.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1336. 59.0'	Station 112			Lat (N): 23° 35.0' Date: 11/13/76			Long (W): 83°			
1337.	26.66	36.122	4.73	-	-	-	-	-	<0.10	<0.1
1338.	26.66	36.355	4.27	-	-	-	-	-	0.13	0.2
1339.	25.78	36.428	4.25	-	-	-	-	-	<0.10	0.4
1340.	23.00	36.596	4.02	-	-	-	-	-	0.31	1.2
1341.	18.23	36.141	2.94	-	-	-	-	-	0.15	10.6
1342.	14.11	35.632	3.05	-	-	-	-	-	0.18	16.9
1343.	10.09	35.042	2.89	-	-	-	-	-	0.15	26.0
1344.	6.67	34.862	3.20	-	-	-	-	-	0.52	28.8
1345.	4.22	35.240	3.70	-	-	-	-	-	<0.10	20.1
1346.	4.21	34.978	5.32	-	-	-	-	-	<0.10	16.8
1347. 55.4'	Station 114			Lat (N): 24° 14.5' Date: 11/14/76			Long (W): 81°			
1348.	26.13	36.120	4.69	6.9	7.1	12	0.29	8.9	<0.10	<0.1
1349.	23.59	35.921	4.85	7.7	15	13	0.21	14	<0.10	0.4
1350.	19.87	36.485	3.28	35	5.2	20	0.25	14	<0.10	6.2
1351.	17.58	36.296	3.17	13	10	13	0.22	22	0.69	7.6
1352.	13.75	35.726	3.12	11	3.9	14	0.13	15	0.35	15.9
1353.	9.83	35.189	2.86	13	84	15	0.22	15	<0.10	27.0
1354.	8.84	35.182	2.92	10	6.2	12	0.17	15	<0.10	24.8
1355.	8.25	35.014	2.81	23	-	27	0.48	49	<0.10	30.6

1356.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1357. 1358. 1359. 1360.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1361. 54.4'	Station 115		Lat (N): 24° 2.2' Date: 11/14/76			Long (W): 81°				
1362.	26.55	36.131	4.70	8.8	3.9	17	<0.08	6.9	<0.10	<0.1
1363.	26.05	36.161	4.73	13	4.9	16	<0.08	19	<0.10	0.4
1364.	22.30	36.555	3.72	4	3.8	14	<0.08	8.0	<0.10	2.5
1365.	19.87	36.601	3.46	10	3.8	12	<0.08	6.5	<0.10	5.4
1366.	17.61	36.287	3.36	7.7	4.7	15	<0.08	16	<0.10	9.9
1367.	13.59	35.807	3.10	15	4.7	15	<0.08	7.6	<0.10	14.7
1368.	9.87	35.166	2.81	3.8	5.0	49	0.13	7.1	<0.10	27.8
1369.	7.90	34.956	2.83	20	4.1	16	<0.08	6.9	<0.10	32.6
1370.	6.68	34.874	3.07	3.8	5.1	11	0.21	5.2	<0.10	33.1
1371.	5.28	35.030	3.75	5.4	5.0	13	<0.08	11	<0.10	27.7
1372. 56.0'	Station 116		Lat (N): 23° 47.6' Date: 11/14/76			Long (W): 81°				
1373.	26.66	36.137	4.57	-	-	-	-	-	<0.10	<0.1
1374.	26.67	36.336	4.28	8.0	3.5	7.5	<0.07	13	<0.10	0.3
1375.	24.52	36.594	3.91	12	6.5	3	0.17	12	<0.10	2.0
1376.	21.60	36.793	3.64	6.4	2.7	15	<0.07	12	<0.10	4.1
1377.	17.88	36.368	3.28	20	2.5	15	0.21	13	<0.10	10.5
1378.	14.17	35.817	3.09	58	2.3	11	0.14	11	<0.10	18.6
1379.	9.74	35.168	2.76	50	29	14	0.17	17	0.30	30.4
1380.	5.89	34.873	3.33	18	6.2	15	0.14	27	0.11	35.6
1381.	4.51	34.931	4.31	22	14	24	0.21	39	<0.10	28.7
1382.	4.24	34.967	5.01	12	3.9	17	0.21	14	<0.10	25.2

1383.

Table I. NOAA ship RESEARCHER 1976 Gulf of Mexico cruise data (cont.).

1384. 1385. 1386. 1387.	Depth (°C)	Temperature (°/oo)	Salinity (mL/L)	Dissolved trace metals (µg/L)					Dissol (µ NO ₂	
				O ₂	Fe	Mn	Cu	Cd		Zn
1388. 48.1'		Station 117		Lat (N): 23° 36.5' Date: 11/14/76			Long (W): 81°			
1389.	26.04	36.357	4.30	2.4	<0.43	2.2	<0.07	6.2	<0.10	<0.1
1390.	23.78	36.749	3.93	3.2	19	2.6	<0.07	10	<0.10	1.7
1391.	21.40	36.815	3.62	8.2	4.6	3.0	<0.07	7.8	<0.10	4.2
1392.	17.81	35.730	3.17	5.4	3.5	2.4	<0.07	5.3	<0.10	20.1
1393.	13.86	35.745	3.15	6.4	3.7	1.8	<0.09	4.9	<0.10	19.5
1394.	9.86	35.147	2.86	35	7.2	4.2	0.40	33	<0.10	31.4
1395.	6.42	34.870	3.22	16	5.3	4.2	0.28	18	<0.10	36.0
1396.	4.20	34.969	5.04	13	4.7	7.2	0.21	13	<0.10	25.5
1397.	4.18	35.335	4.31	11	8.0	4.8	0.34	18	<0.10	21.2
1398. 56.3'		Station 118		Lat (N): 23° 23.7' Date: 11/14/76			Long (W): 81°			
1399.	26.40	36.117	4.59	4.8	5.5	3.0	0.17	7.8	<0.10	<0.1
1400.	26.22	36.163	4.17	3.2	3.3	2.2	<0.07	5.6	<0.10	<0.1
1401.	24.48	36.720	4.06	11	3.5	2.2	<0.07	16	<0.10	1.1
1402.	22.66	36.841	3.78	3.2	2.8	1.5	<0.07	7.2	<0.10	2.8
1403.	18.07	36.461	3.57	3.2	3.3	2.2	0.19	7.4	<0.10	6.9
1404.	14.12	36.629	3.60	3.2	3.0	1.8	<0.07	5.8	<0.10	6.4
1405.	10.08	35.186	2.83	21	3.3	3.7	<0.07	4.6	<0.10	31.7
1406.	6.4	34.873	3.25	15	3.6	4.8	<0.07	14	<0.10	36.7
1407.	4.24	35.371	4.64	5.6	5.4	6.7	0.24	8.6	<0.10	19.6
1408.	4.18	34.973	5.22	4.8	5.5	3.0	0.17	7.8	<0.10	25.0