U. S. DEPARTMENT OF COMMERCE
National Oceanographic and Atmospheric Administration
National Marine Fisheries Service Southeast Fisheries Science Center
P. O. Drawer 1207 Pascagoula, MS 39568-1207

SEAMAP Reef Fish Survey

NOAA Ship Oregon II Cruise 08-03 (281)

Introduction

The NOAA Ship Oregon II departed Pascagoula, MS on April 9, 2008 to conduct the annual SEAMAP Reef Fish Survey along the continental shelf of the western and eastern Gulf of Mexico. The planned itinerary divided the cruise into three legs: Leg 1) 4/9/08 to 4/23/08; Leg 2) 4/25/08 to 5/9/08 and Leg 3) 5/12/08 to 5/22/08, with a port call in Galveston, TX and Pascagoula, MS, for a total of 41 sea days. One sea day was lost to inclement weather and half a sea day was lost to malfunctioning radars on the first leg. On the third leg, one sea day was lost due to the ship not meeting safe manning levels (vessel was short one AB seaman).

Objectives

1) Assess relative abundance of reef fish on Gulf of Mexico shelf-edge banks.
2) Determine length frequency distributions of reef fish.
3) Collect hard parts from fish for aging.
4) Collect temperature, salinity, and dissolved oxygen profile data at each station.

Methods

The NOAA Ship Oregon II departed Pascagoula, MS on April 9, 2008 to conduct the SEAMAP reef fish survey of natural hard bottom areas located on the continental shelf and shelf edge of the western Gulf of Mexico and Mississippi/Alabama Shelf (Figure 1). A two-stage procedure was used to select sample sites. Sample blocks were first selected using stratified random sampling, with strata defined by region of the Gulf of Mexico and size. Twenty-eight blocks were selected to be sampled in this year's survey (Figure 1). Reef sites within each block were then selected randomly from previously collected bathymetric data. Each reef site selected was then sampled with a four stereo camera array and a Seabird 911 CTD which measured temperature, salinity, dissolved oxygen, fluorescence and turbidity profiles of the water column. Additionally, one or two sites from a days work were randomly chosen to be sampled with the chevron fish trap after being sampled with the four stereo camera array. Video gear used to assess relative abundance and length frequencies consisted of four black-and-white Videre stereo cameras along with a color mpeg camera housed in specially manufactured underwater housings. Each housing was mounted orthogonally in a custom aluminum array at a height of 30 cm above the bottom.

A chevron fish trap, that measured 1.83 x 1.83 x 0.75 meters with 3.81-cm mesh, was employed to capture fish for aging and other life history studies. The Flower Garden Bank National Marine Sanctuary (FGBNMS) requested tissue samples from fish caught in the chevron traps as well as stereo data from 6 sites in the sanctuary where monitoring of marbled grouper (*Dermatolepis inermis*) aggregations have taken place in previous years. Both the fish trap and camera array were baited with squid. The camera array was allowed to soak on the bottom for 45 minutes, and the fish trap soaked for 60 minutes.

Results

Due to inclement weather and vessel manning issues, only twenty-five of the twenty-eight blocks selected were sampled resulting in a total of 220 video stations, 37 Chevron fish traps, and 6 FGBNMS marbled grouper sites being sampled (Figure 2, Table 1). Block 19 was mapped at night using an EK500 echogram and SCS reef bathymetry event to obtain better bathymetry data. Seabird SBE911 CTD casts of the water column were collected at 219 stations (Table 1). The CTD winch mechanically malfunctioned at station #018 which prevented the collection of CTD data at that site. The vessel electronics technician switched the CTD profiler to the bongo winch and CTD profiles continued. Stereo data sets and CTD data from each station were returned to the NMFS Pascagoula Laboratory for viewing and analysis.

Fish were captured in 14 out of 37 deployments of the chevron fish trap. A total of 214 individual fish of 13 different species weighing a total of 167.494 kg were captured in the traps (Table 2). Red snapper (*Lutjanus campechanus*) dominated the catch in weight followed by grey triggerfish (*Balistes capriscus*) and then red porgy (*Pagrus pagrus*) (Table 2). Red snapper was the most numerous species followed by grey triggerfish and vermilion snapper (*Rhomboplites aurorubens*) (Table 2). Otoliths and tissue samples were collected from red snapper and grouper species which included speckled hind (*Epinephelus drummondhayi*), yellowedge grouper (*Epinephelus flavolimbatus*), snowy grouper (*Epinephelus niveatus*), and red grouper (*Epinephelus morio*). All otoliths were sent to the NMFS Panama City Laboratory for processing. Tissues samples were sent to the FGBNMS for analysis.

Cruise participants:

Leg 1: 4/9/08 - 4/23/08 (15 sea days)
Pascagoula-Galveston

Name	Title	Organization
Paul Felts	Chief Scientist	NMFS Pascagoula, MS
Kevin Rademacher	Fisheries Biologist	NMFS Pascagoula, MS
Ken Wilkinson	Electronics Technician	NMFS Stennis Space Center, MS
Brandi Noble	Fisheries Biologist	IAP Pascagoula, MS

U. S. DEPARTMENT OF COMMERCE
National Oceanographic and Atmospheric Administration
National Marine Fisheries Service Southeast Fisheries Science Center
P. O. Drawer 1207 Pascagoula, MS 39568-1207

SEAMAP Reef Fish Survey

NOAA Ship Oregon II Cruise 08-03 (281)

Introduction

The NOAA Ship Oregon II departed Pascagoula, MS on April 9, 2008 to conduct the annual SEAMAP Reef Fish Survey along the continental shelf of the western and eastern Gulf of Mexico. The planned itinerary divided the cruise into three legs: Leg 1) 4/9/08 to 4/23/08; Leg 2) 4/25/08 to 5/9/08 and Leg 3) 5/12/08 to 5/22/08, with a port call in Galveston, TX and Pascagoula, MS, for a total of 41 sea days. One sea day was lost to inclement weather and half a sea day was lost to malfunctioning radars on the first leg. On the third leg, one sea day was lost due to the ship not meeting safe manning levels (vessel was short one AB seaman).

Objectives

1) Assess relative abundance of reef fish on Gulf of Mexico shelf-edge banks.
2) Determine length frequency distributions of reef fish.
3) Collect hard parts from fish for aging.
4) Collect temperature, salinity, and dissolved oxygen profile data at each station.

Methods

The NOAA Ship Oregon II departed Pascagoula, MS on April 9, 2008 to conduct the SEAMAP reef fish survey of natural hard bottom areas located on the continental shelf and shelf edge of the western Gulf of Mexico and Mississippi/Alabama Shelf (Figure 1). A two-stage procedure was used to select sample sites. Sample blocks were first selected using stratified random sampling, with strata defined by region of the Gulf of Mexico and size. Twenty-eight blocks were selected to be sampled in this year's survey (Figure 1). Reef sites within each block were then selected randomly from previously collected bathymetric data. Each reef site selected was then sampled with a four stereo camera array and a Seabird 911 CTD which measured temperature, salinity, dissolved oxygen, fluorescence and turbidity profiles of the water column. Additionally, one or two sites from a days work were randomly chosen to be sampled with the chevron fish trap after being sampled with the four stereo camera array. Video gear used to assess relative abundance and length frequencies consisted of four black-and-white Videre stereo cameras along with a color mpeg camera housed in specially manufactured underwater housings. Each housing was mounted orthogonally in a custom aluminum array at a height of 30 cm above the bottom.

Leg 2: 4/25/08 - 5/9/08 (15 sea days)
Galveston-Pascagoula

Name	Title	Organization
Brandi Noble	Chief Scientist	IAP Pascagoula, MS
Michael Hendon	Fisheries Biologist	IAP Pascagoula, MS
Michael Felts	Fisheries Biologist	IAP Pascagoula, MS
Ken Wilkinson	Electronics Technician	NMFS Stennis Space Center, MS

Leg 3: 5/12/08 - 05/22/08 (11 sea days)
Pascagoula-Pascagoula

Name	Title	Organization
Kevin Rademacher	Chief Scientist	NMFS Pascagoula, MS
Paul Felts	Fisheries Biologist	NMFS Pascagoula, MS
Michael Hendon	Fisheries Biologist	IAP Pascagoula, MS
Ken Wilkinson	Electronics Technician	NMFS Stennis Space Center, MS

Submitted by:

Paul Felts
Chief Scientist Leg I
NMFS Pascagoula, MS

Brandi Noble
Chief Scientist Leg II
IAP Pascagoula, MS

Kevin Rademacher
Chief Scientist Leg III
NMFS Pascagoula, MS

Approved by:

Dr. Roger Zimmerman
Acting Director, Mississippi Laboratory
NMFS Pascagoula, MS

N/A

Emily Christman
Capt. MOC/A

Dr. Bonnie Ponwith
Acting Director, SEFSC

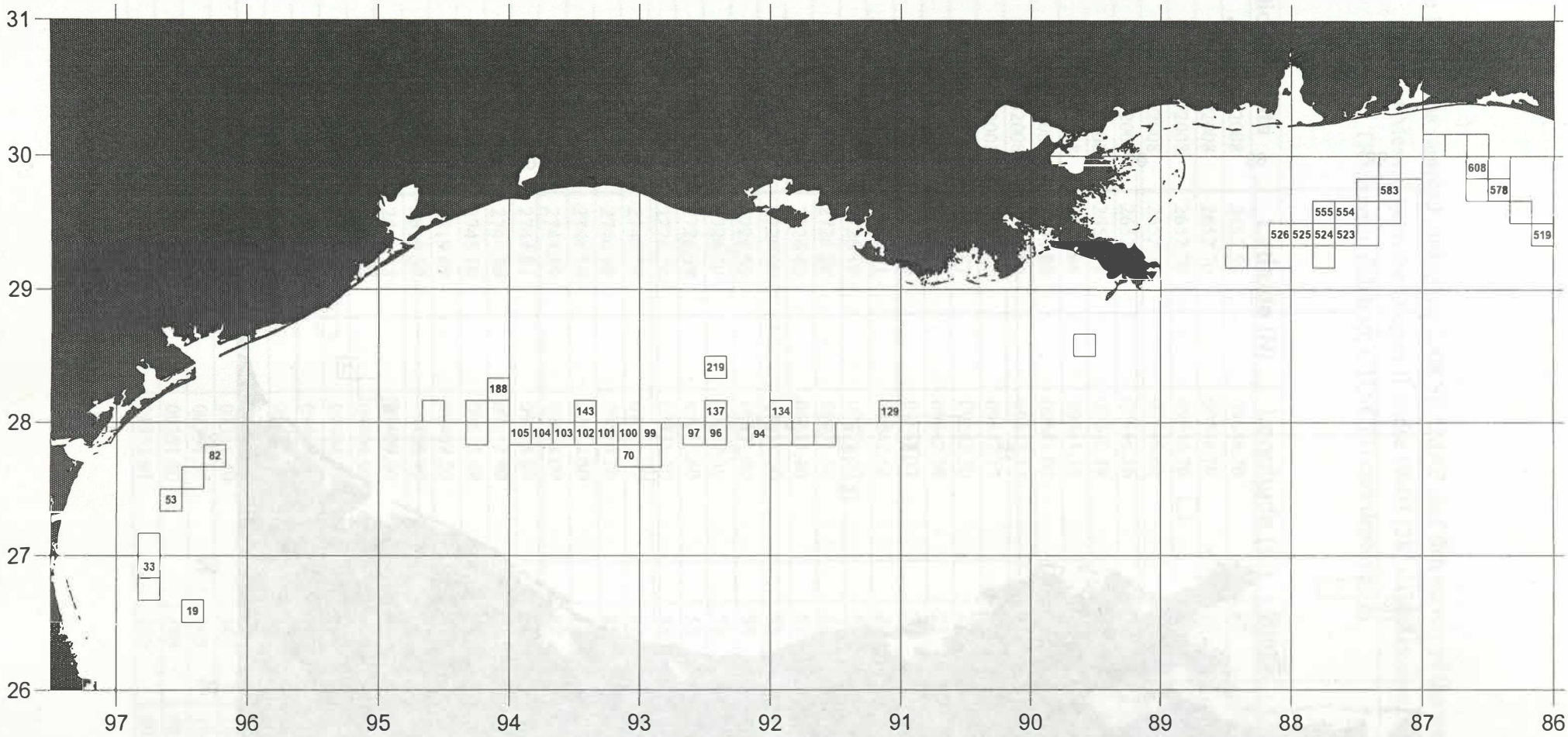

Figure 1. Location of blocks selected for sampling during 2008 SEAMAP reef fish survey

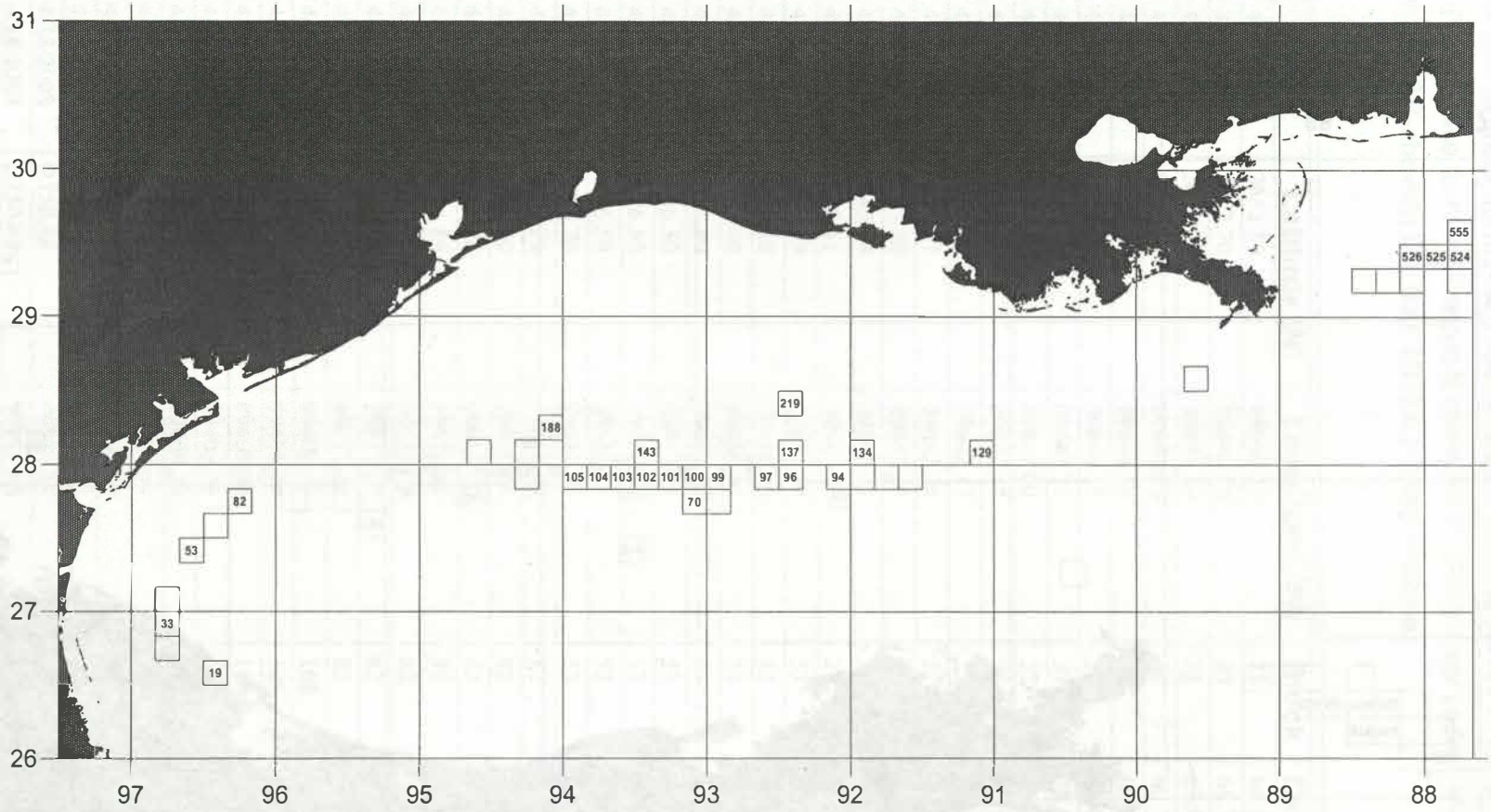

Figure 2. Location of sampled blocks during 2008 SEAMAP reef fish survey

Table 1. Stations sampled during the 2008 SEAMAP reef fish survey of the western and eastern Gulf of Mexico from the Oregon II cruise 08-03 (281). Gear codes: VC- stereo video camera; TR-chevron fish trap; CTD-CTD cast deployed

Station	Date	Latitude (N)	Longitude (W)	Block	Depth (m)	Gear
001	4/13/2008	2652.50	09646.70	33	66.9	VC/CTD
002	4/13/2008	2652.70	09646.70	33	68.7	VC/CTD
003	4/13/2008	2652.70	09646.70	33	67.9	TR
004	4/13/2008	2652.60	09646.60	33	60	VC/CTD
005	4/13/2008	2652.70	09646.50	33	64.6	VC/CTD
006	4/13/2008	2652.61	09646.39	33	67.1	VC/CTD
007	4/14/2008	2645.86	09641.31	27	78.4	VC/CTD
008	4/14/2008	2645.88	09642.00	27	77.4	VC/CTD
009	4/14/2008	2645.80	09642.17	27	77.5	VC/CTD
010	4/14/2008	2645.81	09642.17	27	77.8	TR
011	4/14/2008	2645.87	09642.30	27	73.7	VC/CTD
012	4/14/2008	2645.70	09642.39	27	79.5	VC/CTD
013	4/14/2008	2645.69	09642.37	27	79.9	TR
014	4/14/2008	2646.51	09642.50	27	75.5	VC/CTD
015	4/15/2008	2726.19	09631.50	53	65.1	VC/CTD
016	4/15/2008	2726.20	09631.50	53	67.5	TR
017	4/15/2008	2726.40	09631.40	53	59.9	VC/CTD
018	4/15/2008	2726.40	09631.20	53	76.5	VC
019	4/15/2008	2726.50	09631.40	53	68.1	VC/CTD
020	4/15/2008	2726.50	09631.39	53	67.2	TR
021	4/15/2008	2726.59	09631.60	53	70.7	VC/CTD
022	4/15/2008	2726.70	09631.70	53	71.1	VC/CTD
023	4/16/2008	2740.29	09616.39	82	83.9	VC/CTD
024	4/16/2008	2740.49	09616.20	82	82.7	VC/CTD
025	4/16/2008	2744.50	09614.50	82	62.7	VC/CTD
026	4/16/2008	2744.89	09614.09	82	64.6	VC/CTD
027	4/16/2008	2744.81	09613.89	82	59.7	VC/CTD
028	4/16/2008	2744.80	09613.90	82	58.7	TR
029	4/16/2008	2745.10	09613.49	82	64.1	VC/CTD
030	4/17/2008	2819.49	09409.50	188	38.3	VC/CTD
031	4/17/2008	2819.39	09408.99	188	37.5	VC/CTD
032	4/17/2008	2819.38	09409.00	188	38.3	TR
033	4/17/2008	2819.89	09408.90	188	35.4	VC/CTD
034	4/17/2008	2819.70	09408.39	188	40.8	VC/CTD
035	4/17/2008	2819.00	09408.09	188	49.9	VC/CTD
036	4/17/2008	2818.99	09407.70	188	48.1	VC/CTD
037	4/18/2008	2752.51	09350.70	105	70.6	VC/CTD
038	4/18/2008	2750.48	09351.49	105	101.5	VC/CTD
039	4/18/2008	2750.49	09351.50	105	103.9	TR
040	4/18/2008	2751.30	09351.80	105	86.7	VC/CTD
041	4/18/2008	2752.58	09351.91	105	89.9	VC/CTD

Station	Date	Latitude (N)	Longitude (W)	Block	Depth (m)	Gear
042	4/18/2008	2753.49	09350.19	105	95.2	VC/CTD
043	4/18/2008	2750.69	09352.59	105	105.8	VC/CTD
044	4/19/2008	2753.59	09348.50	104	80.2	VC/CTD
045	4/19/2008	2753.19	09348.29	104	88.5	VC/CTD
046	4/19/2008	2751.89	09347.80	104	94.7	VC/CTD
048	4/19/2008	2751.20	09347.59	104	103.8	VC/CTD
047	4/19/2008	2751.90	09347.79	104	94.4	TR
049	4/19/2008	2750.88	09349.51	104	87.1	VC/CTD
050	4/19/2008	2751.59	09349.89	104	77.1	VC/CTD
051	4/20/2008	2756.10	09336.89	103	69.7	VC/CTD
052	4/20/2008	2756.49	09336.89	103	71.9	VC/CTD
053	4/20/2008	2756.69	09335.50	103	62.3	VC/CTD
054	4/20/2008	2756.70	09335.49	103	75.9	TR
055	4/20/2008	2758.09	09335.61	103	101.6	VC/CTD
057	4/20/2008	2756.59	09337.79	103	95.2	VC/CTD
056	4/20/2008	2758.00	09336.79	103	72.5	VC/CTD
058	4/20/2008	2755.69	09337.60	103	76.9	VC/CTD
059	4/21/2008	2756.09	09337.68	103	71.5	VC/CTD
060	4/21/2008	2753.81	09348.88	104	66.3	VC/CTD
061	4/21/2008	2752.26	09351.08	105	51.7	VC/CTD
062	4/21/2008	2751.99	09351.71	105	65.1	VC/CTD
063	4/21/2008	2751.02	09351.66	105	72.7	VC/CTD
064	4/21/2008	2751.18	09350.16	105	66.7	VC/CTD
065	4/21/2008	2750.79	09351.60	105	95.7	VC/CTD
066	4/22/2008	2807.68	09329.60	143	65.2	VC/CTD
067	4/22/2008	2807.90	09329.20	143	59.4	VC/CTD
068	4/22/2008	2808.00	09329.29	143	58.7	VC/CTD
069	4/26/2008	2808.00	09329.29	143	58.8	VC/CTD
070	4/26/2008	2808.01	09329.30	143	58.7	TR
071	4/26/2008	2808.00	09329.50	143	56.5	VC/CTD
072	4/26/2008	2808.30	09329.60	143	54	VC/CTD
073	4/26/2008	2808.29	09328.79	143	62.9	VC/CTD
074	4/26/2008	2808.30	09328.80	143	63.3	TR
075	4/26/2008	2808.59	09328.89	143	61.7	VC/CTD
076	4/26/2008	2808.60	09329.60	143	57.7	VC/CTD
077	4/27/2008	2755.86	09325.54	102	99.9	VC/CTD
078	4/27/2008	2754.69	09325.70	102	92.2	VC/CTD
079	4/27/2008	2754.69	09325.69	102	91.6	TR
080	4/27/2008	2752.80	09326.85	102	87.9	VC/CTD
081	4/27/2008	2750.53	09325.66	102	117.5	VC/CTD
082	4/27/2008	2753.83	09325.01	102	93.9	VC/CTD
083	4/28/2008	2754.20	09318.20	101	76.4	VC/CTD
084	4/28/2008	2752.90	09317.40	101	51.5	VC/CTD
085	4/28/2008	2752.79	09316.79	101	75.9	VC/CTD
086	4/28/2008	2752.79	09316.79	101	75.3	TR
042	4/18/2008	2753.49	09350.19	105	95.2	VC/CTD
043	4/18/2008	2750.69	09352.59	105	105.8	VC/CTD
087	4/28/2008	2753.10	09316.90	101	77.9	VC/CTD

Station	Date	Latitude (N)	Longitude (W)	Block	Depth (m)	Gear
088	4/29/2008	2753.60	09316.30	101	86.1	VC/CTD
089	4/29/2008	2751.39	09316.50	101	116.3	VC/CTD
090	4/29/2008	2750.59	09304.39	100	73.3	VC/CTD
091	4/29/2008	2750.90	09304.20	100	77.7	VC/CTD
092	4/29/2008	2751.30	09303.99	100	74.8	VC/CTD
093	4/29/2008	2750.80	09303.89	100	63.8	VC/CTD
094	4/29/2008	2750.39	09303.50	100	104.5	VC/CTD
095	4/29/2008	2750.41	09303.50	100	103.7	TR
096	4/29/2008	2750.19	09304.00	100	80.4	VC/CTD
097	4/30/2008	2749.69	09303.10	70	78.4	VC/CTD
098	4/30/2008	2749.69	09302.80	70	101.9	VC/CTD
099	4/30/2008	2749.69	09302.80	70	103.1	TR
100	4/30/2008	2749.40	09303.10	70	63.3	VC/CTD
101	4/30/2008	2749.19	09304.79	70	100.1	VC/CTD
102	4/30/2008	2747.59	09304.59	70	105.1	VC/CTD
103	4/30/2008	2747.99	09302.69	70	87.9	VC/CTD
104	4/30/2008	2748.00	09302.69	70	87.5	TR
105	4/30/2008	2748.19	09302.30	70	97.1	VC/CTD
106	4/30/2008	2748.99	09302.30	70	103	VC/CTD
107	5/1/2008	2750.49	09254.20	99	107.2	VC/CTD
108	5/1/2008	2750.09	09253.79	99		VC/CTD
109	5/3/2008	2750.17	09253.50	99	109.9	VC/CTD
110	5/3/2008	2750.19	09253.49	99	110.7	TR
111	5/3/2008	2750.19	09253.59	99	118	VC/CTD
112	5/3/2008	2750.58	09253.40	99	131.4	VC/CTD
113	5/3/2008	2750.69	09253.00	99	114.7	VC/CTD
114	5/3/2008	2750.69	09253.00	99	114.5	TR
115	5/3/2008	2750.59	09252.40	99	127.1	VC/CTD
116	5/3/2008	2750.59	09252.90	99	102.9	VC/CTD
117	5/3/2008	2750.79	09252.20	99	109.5	VC/CTD
118	5/3/2008	2750.59	09254.00	99	128.2	VC/CTD
119	5/4/2008	2757.89	09236.09	97	52.5	VC/CTD
120	5/4/2008	2757.68	09236.38	97	87.9	VC/CTD
121	5/4/2008	2758.19	09236.99	97	87.5	VC/CTD
122	5/4/2008	2758.19	09236.99	97	88.1	TR
123	5/4/2008	2758.39	09237.20	97	95.5	VC/CTD
124	5/4/2008	2758.69	09236.19	97	91.0	VC/CTD
125	5/4/2008	2758.70	09236.19	97	91.3	TR
126	5/4/2008	2758.49	09236.09	97	82.8	VC/CTD
127	5/4/2008	2758.45	09234.85	97	83.2	VC/CTD
128	5/4/2008	2757.70	09235.30	97	89.5	VC/CTD
129	5/5/2008	2755.19	09223.10	96	78.3	VC/CTD
130	5/5/2008	2756.29	09223.10	96	92.9	VC/CTD
131	5/5/2008	2756.29	09223.09	96	93.1	TR
132	5/5/2008	2756.69	09222.30	96	94	VC/CTD
133	5/5/2008	2756.69	09222.29	96	93.4	TR
134	5/5/2008	2757.48	09221.99	96	96.6	VC/CTD

Station	Date	Latitude (N)	Longitude (W)	Block	Depth (m)	Gear
135	5/5/2008	2757.81	09222.30	96		VC/CTD
136	5/6/2008	2820.70	09228.46	219	57.8	VC/CTD
137	5/6/2008	2820.93	09227.12	219	58.6	VC/CTD
138	5/6/2008	2820.54	09227.22	219	50.0	VC/CTD
139	5/6/2008	2820.44	09227.05	219	39.1	VC/CTD
140	5/6/2008	2820.45	09227.05	219	40.7	VC/CTD
141	5/6/2008	2820.53	09226.98	219	43.7	TR
142	5/6/2008	2820.60	09226.69	219	50.3	VC/CTD
143	5/6/2008	2820.20	09227.10	219	29.5	VC/CTD
144	5/6/2008	2820.20	09227.10	219	29.5	VC/CTD
145	5/6/2008	2819.79	09227.20	219	60.7	TR
146	5/7/2008	2803.69	09228.39	137	79.2	VC/CTD
147	5/7/2008	2803.39	09228.60	137	80.9	VC/CTD
148	5/7/2008	2802.90	09227.40	137	73.1	VC/CTD
149	5/7/2008	2802.90	09227.40	137	73.1	VC/CTD
150	5/7/2008	2802.60	09228.00	137	80.2	TR
151	5/7/2008	2801.69	09228.90	137	89.1	VC/CTD
152	5/7/2008	2801.69	09228.89	137	88.9	VC/CTD
153	5/7/2008	2801.19	09228.59	137	91.7	TR
154	5/7/2008	2801.59	09228.89	137	90.7	VC/CTD
155	5/7/2008	2800.30	09227.89	137	91.2	VC/CTD
156	5/14/2008	2805.69	09101.20	129	62.1	VC/CTD
157	5/14/2008	2806.50	09100.41	129	71.9	VC/CTD
158	5/14/2008	2806.50	09100.39	129	73.0	VC/CTD
159	5/14/2008	2805.89	09100.40	129	72.6	TR
160	5/14/2008	2805.10	09101.60	129	69.4	VC/CTD
161	5/14/2008	2805.99	09101.80	129	56.9	VC/CTD
162	5/14/2008	2805.99	09101.80	129	56.3	VC/CTD
163	5/14/2008	2805.39	09102.50	129	77.4	TR
164	5/15/2008	2757.00	09201.00	94	57.9	VC/CTD
165	5/15/2008	2757.19	09201.40	94	95.5	TR
166	5/15/2008	2757.19	09201.40	94	94.3	VC/CTD
167	5/15/2008	2758.19	09200.20	94	94.8	VC/CTD
168	5/15/2008	2758.10	09201.90	94	85.9	VC/CTD
169	5/15/2008	2757.90	09202.89	94	84.5	VC/CTD
170	5/15/2008	2757.09	09202.10	94	83.2	VC/CTD
171	5/15/2008	2755.89	09201.90	94	89.9	VC/CTD
172	5/15/2008	2756.39	09201.30	94	66.9	VC/CTD
174	5/16/2008	2805.60	09159.29	134	77.7	VC/CTD
176	5/16/2008	2805.40	09159.20	134	73.6	TR
173	5/16/2008	2805.10	09159.49	134	79.9	VC/CTD
178	5/16/2008	2805.30	09159.20	134	81.1	VC/CTD
179	5/16/2008	2804.49	09159.19	134	84.7	VC/CTD
180	5/16/2008	2804.69	09159.29	134	85.2	VC/CTD
181	5/16/2008	2805.19	09159.79	134	85.0	VC/CTD
182	5/17/2008	2922.06	08802.90	526	81.9	VC/CTD
183	5/17/2008	2923.64	08801.82	526	76.5	VC/CTD

Station	Date	Latitude (N)	Longitude (W)	Block	Depth (m)	Gear
184	5/17/2008	2923.68	08801.69	526	71.1	VC/CTD
185	5/18/2008	2923.51	08801.59	526	70.1	VC/CTD
186	5/18/2008	2923.51	08801.60	526	70.3	TR
187	5/18/2008	2923.48	08801.51	526	73.7	VC/CTD
188	5/18/2008	2923.46	08801.39	526	69.3	VC/CTD
189	5/18/2008	2923.73	08801.04	526	69.0	VC/CTD
190	5/18/2008	2923.73	08801.04	526	76.2	TR
191	5/18/2008	2923.28	08801.00	526	78.7	VC/CTD
192	5/18/2008	2923.23	08800.80	526	74.7	VC/CTD
193	5/18/2008	2923.19	08800.69	526	77.8	VC/CTD
194	5/18/2008	2925.16	08756.50	525	73.4	VC/CTD
195	5/19/2008	2925.10	08757.20	525	72.3	VC/CTD
196	5/19/2008	2925.12	08756.79	525	68.8	VC/CTD
197	5/19/2008	2925.12	08756.80	525	73.3	TR
198	5/19/2008	2924.89	08757.11	525	73.8	VC/CTD
175	5/16/2008	2805.40	09159.19	134	74.0	VC/CTD
177	5/16/2008	2805.07	09159.59	134	81.9	VC/CTD
199	5/19/2008	2925.20	08755.29	525	69.6	VC/CTD
200	5/19/2008	2925.18	08754.70	525	73.2	VC/CTD
201	5/19/2008	2925.26	08752.80	525	70.4	VC/CTD
202	5/19/2008	2925.49	08750.29	525	68.8	VC/CTD
203	5/19/2008	2925.50	08750.20	525	71.4	VC/CTD
204	5/20/2008	2926.95	08746.98	524	63.5	VC/CTD
205	5/20/2008	2924.60	08745.79	524	69.0	VC/CTD
206	5/20/2008	2924.59	08745.79	524	69.3	TR
207	5/20/2008	2923.60	08747.50	524	73.1	VC/CTD
208	5/20/2008	2920.20	08748.42	524	98.6	VC/CTD
209	5/20/2008	2920.91	08744.90	524	97.7	VC/CTD
210	5/20/2008	2921.49	08744.49	524	96.9	VC/CTD
211	5/20/2008	2923.15	08740.30	524	102.6	VC/CTD
212	5/20/2008	2923.15	08740.29	524	101.8	TR
213	5/20/2008	2927.50	08741.60	524	63.1	VC/CTD
214	5/21/2008	2931.50	08745.50	555	50.3	VC/CTD
215	5/21/2008	2931.99	08743.90	555	50.3	VC/CTD
217	5/21/2008	2931.99	08743.19	555	50.3	VC/CTD
216	5/21/2008	2931.70	08743.30	555	52.2	VC/CTD
218	5/21/2008	2932.20	08742.89	555	50.7	VC/CTD
219	5/21/2008	2932.20	08742.90	555	51.0	TR
220	5/21/2008	2932.39	08742.30	555	49.4	VC/CTD

Table 2: Taxa caught in the chevron fish trap during the 2008 SEAMAP reef fish survey of the western and eastern Gulf of Mexico from the Oregon II cruise 08-03 (281). Taxa ranked in order by frequency of occurrence.

Species	Common name	Frequency of Occurrence (n = 37)	Total # fish	Total Weight (kgs)
Lutjanus campechanus	red snapper	9	89	85.799
Rhomboplites aurorubens	vermilion snapper	7	30	16.794
Balistes capriscus	gray triggerfish	5	42	33.806
Pagrus pagrus	red porgy	4	29	19.943
Calamus leucosteus	whitebone porgy	1	1	0.464
Centropristis ocyura	bank sea bass	1	2	0.269
Chaetodon sedentarius	reef butterflyfish	1	1	0.34
Epinephelus drummondhayi	speckled hind	1	1	1.71
Epinephelus flavolimbatus	yellowedge grouper	1	1	1.909
Epinephelus morio	red grouper	1	1	3.35
Epinephelus niveatus	snowy gouper	1	1	0.655
Equetus umbrosus	cubbyu	1	4	0.587
Haemulon aurolineatum	tomtate	1	12	1.868
		Sum	214	167.494