

U. S. DEPARTMENT OF THE INTERIOR  
Fish and Wildlife Service  
Bureau of Commercial Fisheries - Region II  
Exploratory Fishing and Gear Research Base Headquarters  
Pascagoula, Mississippi

151420

R/V Hernan Cortez Cruise Report No. 2

Bureau of Commercial Fisheries - Florida Conservation Department  
Cooperative Exploratory Project, \*

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BCF/FCD bottomfish explorations off the west coast of Florida were completed aboard the R/V Hernan Cortez between May 22 and July 12, 1965 (see Cruise Report No. 1). Exploratory transects were made in depths from 5 to 50 fathoms between Tampa Bay and Dry Tortugas. A total of 129 fishing stations were completed, of which 6 were handline stations, 2 were fish trap stations, and the rest were 30-foot and 39-foot roller-rigged fish trawl stations. Objectives of these operations were to assess the fauna in the area, with attention focused on bottomfishes of potential commercial value, and to determine operational conditions in the area during this time of year.

Trawl catches of marketable finfish were considered less than commercial in all but one drag where 160 pounds of grouper and snapper were taken with the 39-foot trawl. A follow-up drag made over a reciprocal course, using both trawls simultaneously, resulted in a combined catch below commercial scale. The attached fishing log describes all catches. In many drags, the size range of commercial species was under acceptable market size and considered non-commercial.

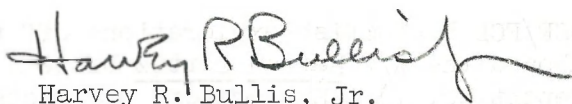
Operational conditions in the area were generally good. In certain areas, between Ft. Myers and Cape Romano, in depths from 10 to 25 fathoms, bottom "grasses" hindered satisfactory trawling. Loggerhead and fire sponges were also present in a number of drags, but not in sufficient amount to hamper fishing. Trawling with the roller-rigged nets was accomplished over much rough bottom without appreciable gear damage. Only one hang-up occurred, and the gear was not damaged in this instance.

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\*Note: This project was conducted under an inter-agency State-Federal cooperative agreement between the Florida Conservation Department and the Bureau of Commercial Fisheries, U. S. Fish and Wildlife Service. The objective of the project was to conduct a preliminary survey of the bottom-trawl fish potential of the Florida west coast. The survey was designed to determine the species present and to obtain information on their availability to trawling gear within the 5 to 50 fathoms depth range.

Fish catches of commercial interest included gray snapper, lane snapper, and red and black grouper. Vermilion snapper, with one exception (see tabulation), were caught less frequently and were of smaller size than in the previous cruise. Captures of Spanish lobster, in general, were progressively less frequent as the trawling operation moved southward from Tampa Bay to the Dry Tortugas area.

Surface school fish were observed usually inside the 10-fathom depth contour with the greatest concentrations occurring near Tampa Bay, Ft. Myers Beach, and Cape Romano. Trolling lines fished between stations produced little tuna, king mackerel, and Spanish mackerel. Routine meteorological and water temperature data were recorded throughout the cruise.



Harvey R. Bullis, Jr.  
Base Director

SCIENTIFIC PERSONNEL:

Rolf Juhl, Field Party Chief, 5/22 - 6/7/65  
Johnny A. Butler, Field Party Chief, 6/27 - 7/12/65  
Jack Rivers, Fishery Methods & Equipment Specialist, 5/22 - 6/7/65  
Bennie A. Rohr, Fishery Technician, 5/22 - 6/7/65  
Hilton M. Floyd, Fishery Methods & Equipment Specialist, 6/27 - 7/12/65  
Shelby B. Drummond, Fishery Biologist, 6/27 - 7/12/65

VESSEL PERSONNEL:

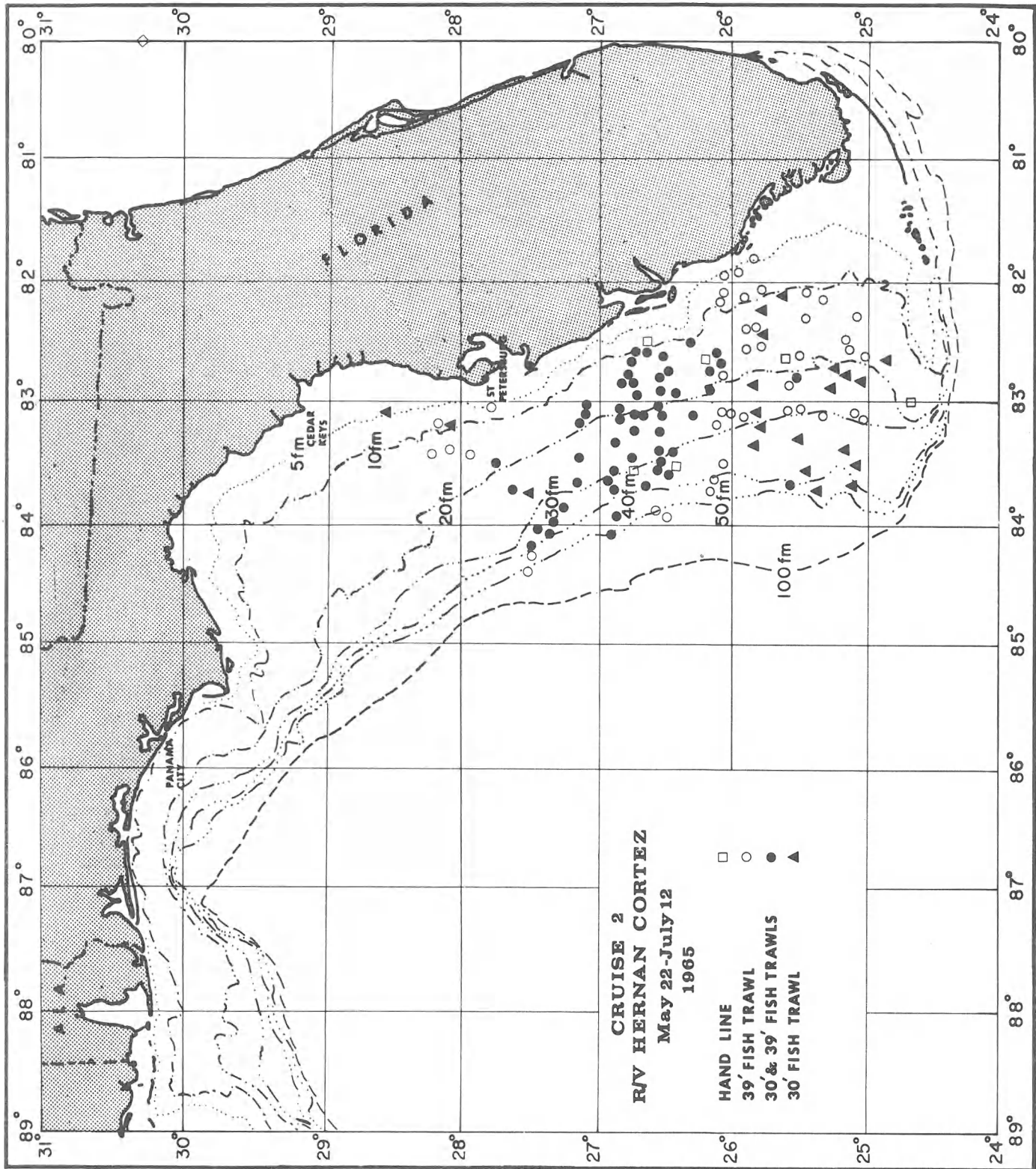
Captain Earl Girard, Master  
Howard Branch, 1st Mate  
Robert Presley, Crewmember  
John Miller, Cook  
George Register, Student Trainee  
Keith Serafy, Student Trainee

H. Coretz Stations 93 - 221

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FISHING LOG - R/V Hernan Cortez Cruise No. 2 - Phase 2

STA. NO.	DATE		POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES
	N. Lat.	W. Long.	N. Lat.	W. Long.					
92	5/18	28° 34'	83° 10'		30' Fish trawl	6	--	--	No catch
93	5/22	27° 47'	83° 00'		39' Fish trawl	6	45	4	Pinfish (4#), squid, sand perch, round scad
94	5/22	27° 49'	83° 08'		"	9	45	10	Sand perch, porgy, squid, triggerfish
95	5/22	28° 02'	83° 14'		30' Fish trawl	11	60	1	Grunt (1#)
96	5/23	28° 02'	83° 14'		"	11	45	8	Red grouper (1#), sea bass (1#), pigfish, triggerfish,
97	5/23	28° 10'	83° 16'		39' Fish trawl	10	45	18	Grunt, triggerfish (10#), Spanish sardine, porgy, pigfish
98	5/23	28° 13'	83° 27'		"	12	45	7	Sand perch, triggerfish (5#)
99	5/23	28° 05'	83° 25'		"	14	45	5	Triggerfish
100	5/23	27° 55'	83° 30'		"	16	45	8	Triggerfish, sand perch (3#), flounder, round scad, grunt
101	5/23	27° 46'	83° 35'		30' and 39' Fish trawls	18	50	25	Flounder, pinfish, sand perch (4#), triggerfish, grunt, sea bass, pink and red shrimp
102	5/23	27° 37'	83° 43'		"	22	45	50	Round scad, triggerfish, goatfish, flounder, sand perch, hake
103	5/24	27° 30'	83° 48'		30' Fish trawl	26	60	25	Goatfish, sand perch, rock shrimp

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
104	5/24	27° 31'	84° 01'	30' and 39' Fish trawls	32	45	40	Goatfish, sea bass (5#), sand perch, triggerfish, pinfish, rock shrimp	
105	5/24	27° 33'	84° 12'	"	34	45	30	Sea bass, goatfish, triggerfish, sand perch	
106	5/24	27° 33'	84° 22'	39' Fish trawl	50	45	12	Goatfish, sand perch	
107	5/24	27° 29'	84° 17'	"	42	50	20	Vermillion snapper (5#), sea bass	
108	5/24	27° 25'	84° 08'	30' and 39' Fish trawls	35	50	30	Sea bass (5#), scup (1#), hake, vermilion snapper, sand perch, Spanish lobster	
109	5/24	27° 21'	83° 57'	"	32	45	100	Hake, spot (1#), grunt (10#), sea bass (4#), triggerfish, goatfish	
110	5/25	27° 20'	83° 46'	"	26	45	65	Sea bass (4#), triggerfish, grunt, sand perch	
111	5/25	27° 19'	83° 38'	"	23	45	40	Red grouper (20#), sea bass, sand perch (1#), rock shrimp	
112	5/25	27° 18'	83° 27'	"	21	45	50	Round scad (2#), vermilion snapper (28#), pinfish, sand perch, grunt, sea bass	
113	5/25	27° 19'	83° 15'	"	17	45	25	Sand perch, triggerfish, Spanish lobster	
114	5/25	27° 15'	83° 08'	"	15	45	80	Lane snapper (2#), triggerfish, sand perch, red grouper, gray snapper	

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
115	5/25	27° 08'	83° 03'	30' and 39' Fish trawls	15	45	35		Red grouper (4#), lane snapper, sand perch, triggerfish, porgy, Spanish lobster
116	5/29	26° 43'	82° 33'	"	6	45	50		Iane snapper (1#), triggerfish (12#), sand perch (12#), red grouper (3#), mojarra (1#), grunt, round scad, porgy (4#), hogfish
117	5/29	26° 44'	82° 34'	2 Handlines	6	60	--		Sand perch
118	5/30	26° 45'	82° 34'	30' and 39' Fish trawls	6	45	10		Sand perch (5#), triggerfish (1#), Spanish sardine, round scad, pinfish, lane snapper
119	5/30	26° 53'	82° 40'	"	12	45	15		Grunt, sand perch (2#), triggerfish, lane snapper, porgy (2#)
120	5/30	26° 43'	82° 49'	"	16	55	55		Porgy (3#), lane snapper (3#), sand perch (8#), grunt, sea bass (1#), gray snapper (1#)
121	5/30	26° 51'	82° 49'	"	14	45	30		Sand perch (10#), pigfish, triggerfish
122	5/30	26° 53'	83° 02'	"	18	55	120		Gray snapper (17#), vermilion snapper (5#), lane snapper (5#), red grouper, black grouper
123	5/30	26° 52'	83° 14'	"	22	45	526		Vermilion snapper (32#), red grouper (31#), lane snapper (1#), porgy (11#), grunt (63#), sea bass, rock shrimp



STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
124	5/30	26° 52'	83° 26'	30' and 39' Fish trawls	26	30	143	Vermilion snapper (31#), gray snapper (2#), squid, round scad, grunt (8#), porgy (17#), sea bass, goatfish, rock shrimp	
125	5/31	26° 53'	83° 39'	"	30	45	100	Red grouper (18#), sea bass, grunt (9#), vermilion snapper (10#), pinfish, porgy, Spanish lobster	
126	5/31	26° 53'	83° 49'	"	35	60	55	Sea bass (5#), Spanish lobster, squid	
127	5/31	26° 55'	84° 03'	"	45	50	43	Red grouper (14#), sea bass (2#), grunt, goatfish, vermilion snapper (1#), Southern hake, squid	
128	5/31	26° 47'	84° 05'	"	53	--	10	Goatfish, Southern hake	
129	5/31	26° 47'	83° 55'	"	38	50	15	Vermilion snapper (6#), triggerfish, sea bass	
130	5/31	26° 47'	83° 46'	"	35	50	51	Vermilion snapper (17#), porgy (2#), goatfish (1#), sand perch, sea bass (1#), squid (1#)	
131	5/31	26° 45'	83° 36'	"	30	50	42	Triggerfish, sea bass (4#), vermilion snapper (6#), rock shrimp, Spanish lobster, squid (1#)	
132	6/01	26° 45'	83° 23'	"	27	50	57	Vermilion snapper (4#), red grouper (2#), scamp (8#), sea bass (3#), grunt (3#), sand perch, Spanish lobster (1#), squid (2#)	



STA. NO.	DATE	POSITION		DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.				GEAR USED	
133	6/01	26° 45'	83° 16'	23	--	69	30' and 39' Fish trawls	Red snapper (12#), black grouper (4#), scamp (4#), porgy (7#), Spanish lobster (8#), sand perch, grunt
134	6/01	26° 44'	83° 12'	22	45	141	"	Red grouper (9#), vermilion snapper (17#), gray snapper (3#), grunt (19#), porgy (11#), lane snapper (1#)
135	6/01	26° 45'	83° 05'	19	45	74	"	Vermilion snapper (2#), porgy (5#), lane snapper (1#), gray snapper, red grouper (3#), sand perch (2#), triggerfish, pinfish, pink shrimp
136	6/01	26° 43'	82° 54'	16	45	34	"	Triggerfish (2#), porgy (3#), sand perch (2#), lane snapper (5#), vermilion snapper (2#), Spanish sardine
137	6/01	26° 33'	82° 50'	14	45	371	"	Sand perch, gray snapper (6#), lane snapper (3#), vermilion snapper, triggerfish (2#), red snapper(1#)
138	6/01	26° 33'	82° 39'	13	45	63	"	Lane snapper (1#), gray snapper (2#), porgy (4#), triggerfish (3#), sand perch (4#), grunt (12#), vermilion snapper (1#), squid (1#), Spanish lobster
139	6/02	26° 32'	82° 47'	16	45	83	"	Gray snapper (4#), lane snapper (2#), red grouper (3#), black grouper (9#), porgy (9#), sand perch(3#), triggerfish (3#)

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES
		N. Lat.	W. Long.					
140	6/02	26° 32'	83° 01'	30' and 39' Fish trawls	20	45	--	Lane snapper (16#), gray snapper (1#), grunt (28#), porgy (10#), vermillion snapper (11#), sand perch (4#), pinfish, round scad, squid
141	6/02	26° 26'	83° 03'	"	22	45	367	Grunt (8#), sand perch, lane snapper (5#), scamp (1#), black grouper (7#), pinfish, rock shrimp
142	6/02	26° 25'	82° 58'	"	20	45	33	Lane snapper (1#), triggerfish, vermillion snapper, porgy, Spanish sardine, pink shrimp
143	6/02	26° 25'	82° 47'	"	15	45	40	Red grouper (25#), porgy (3#), triggerfish, sand perch, lane snapper (1#)
144	6/02	26° 28'	82° 37'	"	12	45	67	Red grouper (4#), lane snapper (4#), porgy (4#), vermillion snapper (1#), triggerfish (5#), grunt (3#), sand perch, sea bass, pink shrimp
145	6/03	26° 17'	82° 32'	"	13	45	17	Porgy (5#), sand perch (1#), triggerfish, lane snapper (1#), pinfish, squid
146	6/03	26° 09'	82° 35'	"	15	45	82	Lane snapper (15#), vermillion snapper (14#), red grouper (10#), porgy (4#), sand perch, triggerfish, sea bass

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
147	6/04	26° 07'	82° 43'	30' and 39' Fish trawls	16	45	69	Lane snapper (13#), red grouper (11#), sand perch (2#), vermilion snapper (9#), gray snapper (1#), grunt (4#), Spanish sardine, pinfish, rock shrimp, Spanish lobster, squid	
148	6/04	26° 15'	82° 44'	2 Handlines	12	480	100	Hammerhead shark	
149	6/05	26° 15'	82° 44'	30' and 39' Fish trawls	12	45	68	Red grouper (2#), lane snapper (3#), sand perch (2#), triggerfish (2#), sea bass, grunt (3#), flounder (1#)	
150	6/05	26° 16'	82° 53'	"	19	45	117	Red grouper (15#), lane snapper (3#), gray snapper (1#), vermilion snapper (15#), porgy (5#), mojarra, Spanish lobster (3#)	
151	6/05	26° 14'	83° 06'	"	22	45	61	Red grouper (22#), goatfish, sand perch (1#), vermilion snapper (1#), squid, lane snapper (2#)	
152	6/05	26° 23'	83° 14'	"	26	50	181	Vermilion snapper (130#), porgy (2#)	
153	6/05	26° 31'	83° 17'	"	24	50	22	Sea bass (1#), pinfish, triggerfish, round scad, Spanish lobster, squid, rock shrimp	
154	6/05	26° 40'	83° 24'	"	27	45	141	Red grouper (17#), vermilion snapper (5#), sea bass (2#), grunt (2#), porgy (10#), pinfish, goatfish, triggerfish (2#), rock shrimp, pink shrimp	

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES
		N. Lat.	W. Long.					
155	6/05	26° 34'	83° 24'	30' and 39' Fish trawls	28	45	81	Porgy (13#), vermilion snapper (6#), flounder (1#), sand perch (2#), sea bass (8#), goatfish, pinfish, triggerfish, Spanish lobster
156	6/06	26° 24'	83° 27'	2 Handlines	29	360	320	Silky shark
157	6/06	26° 24'	83° 27'	30' and 39' Fish trawls	29	50	103	Sea bass (3#), goatfish(3#), triggerfish, Spanish lobster (2#)
158	6/06	26° 24'	83° 39'	"	33	45	21	Sea bass (2#), vermilion snapper (1#), goatfish(1#)
159	6/06	26° 25'	83° 52'	39' Fish trawl	50	50	9	Southern hake, Spanish lobster
160	6/06	26° 36'	83° 53'	"	47	50	9	Triggerfish, goatfish, Southern hake, sea bass
161	6/06	26° 40'	83° 44'	30' and 39' Fish trawl	38	50	188	Vermilion snapper (124#), sea bass (2#), round scad, rock shrimp
162	6/06	26° 39'	83° 35'	"	30	45	41	Round scad, Spanish lobster (4#), goatfish, sea bass (2#), triggerfish, sand perch
163	6/6-7	26° 40'	83° 33'	2 Handlines	30	570	40	Sea bass (2#)
164	6/28	26° 10'	83° 06'	39' Fish trawl	20	45	14	Red grouper (8#), vermilion snapper (4#), gray snapper (1#), Spanish sardine, flounder, black grouper(2#)

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES
		N. Lat.	W. Long.					
165	6/28	26° 10'	83° 06'	39' Fish trawl	20	45	31	Red grouper (12#), vermilion snapper (3#), Spanish sardine, black grouper (4#), porgy, gray snapper (4#)
166	6/28	26° 12'	83° 15'	"	30	45	10	Flounder, vermilion snapper (1#), goatfish, squid, Spanish lobster
167	6/28	26° 12'	83° 43'	"	40	45	20	Flounder
168	6/28	26° 09'	83° 48'	"	50	45	25	Red snapper (20#)
169	6/29	26° 01'	83° 33'	"	35	45	10	Sea bass (2#), goatfish (2#)
170	6/29	25° 56'	82° 13'	"	25	45	10	Red grouper (4#), lane snapper (2#), grunt (3#), porgy
171	6/29	26° 03'	81° 57'	"	10	45	15	Yellowfin grouper (3#), red grouper (6#), black grouper (2#), scorpionfish (3#)
172	6/29	25° 58'	81° 54'	"	5	45	45	Red snapper (1#), pinfish (1#), porgy, pigfish, Spanish lobster, black grouper (1#), grunt (1#), yellowfin grouper, Mojarra (2#)
173	6/30	25° 48'	81° 45'	"	5	45	4	Flounder, squid (2#)
174	6/30	25° 47'	82° 08'	"	10	45	2	Sea bass (1#), Spanish sardine (1#)

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
175	6/30	25° 50'	82° 25'	39' Fish trawl	15	45	10	Triggerfish, sea bass (3#), lane snapper (3#), pink shrimp	
176	6/30	25° 50'	82° 44'	"	20	45	50	Red grouper (25#), lane snapper (5#), porgy	
177	7/01	26° 02'	83° 02'	"	25	45	60	Red grouper (22#), lane snapper (3#), grunt, vermilion snapper (1#), Spanish lobster	
178	7/01	26° 15'	82° 18'	"	7	45	60	Red grouper (3#), black grouper (1#), gray snapper (1#), flounder, sea bass (1#), grunt, squid	
179	7/03	25° 40'	83° 14'	"	30	45	8	Sea bass, squid, Spanish lobster	
180	7/03	25° 35'	83° 10'	"	30	45	5	Goatfish (1#), squid	
181	7/03	25° 26'	83° 10'	"	30	45	30	Vermilion snapper (1#), sea bass (3#)	
182	7/03	25° 18'	83° 10'	"	30	45	25	Sea bass (3#), flounder (1#), Spanish lobster, squid	
183	7/03	25° 10'	83° 05'	"	30	45	15	Flounder (1#), squid, sea bass, goatfish, Spanish lobster	
184	7/03	25° 02'	83° 06'	"	30	45	5	Squid	
185	7/03	24° 50'	83° 05'	"	30	45	25	Spanish lobster, squid	

STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
186	7/03	24° 41'	83° 00'	2 Handlines	12	180	43		Yellowtail snapper (3#)
187	7/04	24° 53'	82° 44'	30' Fish trawl	20	45	10		Red grouper (2#), pink shrimp, rock shrimp, porgy, squid
188	7/04	25° 01'	82° 50'	"	23	45	20		Lane snapper (2#), round scad, rock shrimp
189	7/04	25° 09'	82° 48'	"	25	45	20		Goatfish (1#), Spanish lobster
190	7/04	25° 12'	82° 41'	"	25	45	2		Rock shrimp, Spanish lobster
191	7/04	25° 14'	82° 55'	"	27	45	6		Rock shrimp, flounder
192	7/05	25° 19'	83° 24'	"	25	45	8		Spanish lobster
193	7/05	25° 08'	83° 28'	"	35	45	8		-----
194	7/05	25° 08'	83° 40'	"	40	45	70		Vermilion snapper (50#), flounder (2#), grunt, porgy, sea bass (3#)
195	7/05	25° 24'	83° 45'	"	50	45	5		Rock shrimp
196	7/05	25° 39'	83° 39'	"	40	45	5		Flounder
197	7/05	25° 39'	83° 39'	"	35	45	10		Sea bass (2#), Spanish lobster
198	7/06	25° 39'	83° 23'	"	33	45	8		Sea bass (3#), goatfish (3#), Southern hake (1#), Spanish lobster
199	7/06	25° 52'	83° 25'	"	33	45	25		-----



STA. NO.	DATE	POSITION		GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES	
		N. Lat.	W. Long.						
200	7/06	25° 53'	83° 17'	30' Fish trawl	25	45	8	Goatfish, grunt, sea bass (1#), Spanish lobster	
201	7/06	25° 52'	83° 05'	"	25	45	15	Vermilion snapper, lane snapper (1#), goatfish (1#), rock shrimp, pink shrimp	
202	7/06	25° 53'	82° 54'	"	22	45	10	Sea bass (1#), lane snapper (2#), squid	
203	7/06	25° 53'	82° 23'	"	15	45	10	Sea bass (2#), lane snapper (3#)	
204	7/07	25° 42'	82° 03'	"	10	45	10	Lane snapper (4#), porgy (2#), sea bass (2#)	
205	7/07	25° 56'	82° 08'	"	10	45	10	Lane snapper (3#), red grouper (6#), grunt, triggerfish, sea bass (2#)	
206	7/08	26° 04'	82° 17'	39' Fish trawl	10	45	4	Sea bass (1#), grunt	
207	7/08	25° 51'	82° 29'	"	15	45	5	Sea bass (1#), flounder (2#), lane snapper (2#)	
208	7/08	25° 43'	82° 47'	2 Handlines	21	240	18	Red grouper (18#)	
209	7/09	25° 43'	82° 47'	39' Fish trawl	21	45	25	Spanish sardine (1#), lane snapper (1#), vermilion snapper (2#), gray snapper (9#), porgy (2#)	

STA. NO.	DATE	POSITION		DEPTH FMS.	GEAR USED	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY
		N. Lat.	W. Long.					COMMERCIAL SPECIES
210	7/09	25° 35'	82° 51'	25	39' Fish trawl	45	160	Red snapper (17#), gray snapper (70#), vermilion snapper (10#), scamp (6#), red grouper (28#), lane snapper (5#), Spanish sardine (3#), Spanish lobster, triggerfish (1#), porgy
211	7/09	25° 35'	82° 51'	25	30' and 39' Fish trawls	45	10	Sea bass (2#), porgy (5#), vermilion snapper (2#), triggerfish, mojarra, gray snapper (1#)
212	7/09	25° 15'	82° 38'	20	39' Fish trawl	50	11	Lane snapper (2#), sea bass (1#), vermilion snapper (1#), porgy (1#), mojarra
213	7/09	25° 08'	82° 39'	21	"	45	25	Lane snapper (4#), red grouper (4#), pinfish, rock shrimp, flounder, pink shrimp, triggerfish
214	7/09	25° 00'	82° 40'	21	"	45	25	Vermilion snapper (4#), sea bass (5#), lane snapper (8#), flounder, grunt, porgy, triggerfish
215	7/09	25° 08'	82° 20'	15	"	45	25	Lane snapper (12#), sea bass, flounder, pink shrimp, mojarra, squid
216	7/10	25° 22'	82° 04'	11	"	45	13	Lane snapper (5#), porgy (3#), sea bass (1#), hog snapper (1#), red grouper (3#), triggerfish, squid

STA. NO.	DATE	POSITION			GEAR USED	DEPTH FMS.	MINUTES FISHED	APPROX. WGT. (LBS.)	COMMERCIAL OR POTENTIALLY COMMERCIAL SPECIES
		N. Lat.	W. Long.						
217	7/10	25° 29'	82° 03'	39' Fish trawl	10	45	100	Lane snapper (27#), red grouper (8#), porgy (7#), grunt (4#), hogfish	
218	7/10	25° 29'	82° 19'	"	15	45	15	Lane snapper (6#), sea bass (2#), pink shrimp, mojarra.	
219	7/10	25° 30'	82° 43'	"	20	45	--	-----	
220	7/11	25° 30'	83° 51'	30' and 39' Fish trawl	23	45	15	Red grouper (6#), black grouper, sea bass (4#), grunt, lane snapper (3#), pink shrimp, vermillion snapper (3#)	
221	7/11	26° 04'	82° 48'	39' Fish trawl	20	45	3	Flounder (1#), lane snapper (1#), pink shrimp	

LIST OF SPECIES REFERRED TO IN FISHING LOG  
Hernan Cortez Cruise No. 2

<u>FISHES CAUGHT</u>	<u>NUMBER OF TOWS</u>
Vermilion snapper ( <u>Rhomboplites aurorubens</u> )	115
Red snapper ( <u>Lutjanus aya</u> )	4
Lane snapper ( <u>Lutjanus synagris</u> )	44
Gray snapper ( <u>Lutjanus griseus</u> )	19
Red grouper ( <u>Epinephelus morio</u> )	39
Scamp ( <u>Mycteroperca phenax</u> )	5
Black grouper ( <u>Mycteroperca bonaci</u> )	5
Yellowfin grouper ( <u>Mycteroperca venenosa</u> )	2
Grunt ( <u>Haemulon sp.</u> )	39
Porgy ( <u>Calamus sp.</u> )	46
Triggerfish ( <u>Alutera sp.</u> and <u>Balistes sp.</u> )	52
Hogfish ( <u>Lachnolaimus maximus</u> )	2
Sea bass ( <u>Centropristes melanus</u> and <u>C. ocyurus</u> )	60
Goatfish ( <u>Mullus sp.</u> and <u>Pseudopeneus sp.</u> )	26
Sand perch ( <u>Diplectrum formosum</u> )	43
Round scad ( <u>Decapterus punctatus</u> )	18
Spanish sardine ( <u>Sardinella anchovia</u> )	18
Spot ( <u>Leiostomus xanthurus</u> )	1
Southern hake ( <u>Urophycis floridanus</u> )	10
Pinfish ( <u>Lagodon rhomboides</u> )	18
Pigfish ( <u>Orthopristis chrysopterus</u> )	6
Flounder ( <u>Paralichthys lethostigma</u> and <u>Ancylopsetta quadrocellata</u> )	22
Mojarra ( <u>Eucinostomus sp.</u> )	9
Spanish lobster ( <u>Scyllarus sp.</u> )	37
Pink shrimp ( <u>Penaeus duorarum</u> )	16
Rock shrimp ( <u>Siconia brevirostris</u> )	24
Squid ( <u>Loligo sp.</u> )	29

LIST OF SEVERAL MEMBERS OF THE FIRMING CO.  
London, New York, No. 2

NO. OF TONS	FIRMING COMPANY
100	Yonkers (New York) (1880-1881)
4	Red Bank (Delaware) (1881-1882)
44	Same as above (1882-1883)
10	Long Beach (California) (1883-1884)
10	Red Bank (Delaware) (1884-1885)
10	Group (1885-1886)
4	Black Bank (New York) (1886-1887)
10	Yellow Springs (Ohio) (1887-1888)
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