

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

NOAA Ship OREGON II Cruise 07-04 (277)
08/10-09/27/2007

INTRODUCTION

The *NOAA Ship OREGON II* departed Pascagoula, Mississippi on August 10, 2007 for the annual bottom longline survey in the U.S. Gulf of Mexico. Survey plans initially included sites in the Western North Atlantic from Cape Hatteras, North Carolina to West Palm Beach, Florida. However, due to vessel mechanical problems, departure was delayed from July 26 to August 10 and the U.S. Atlantic coast portion of the survey was canceled. Additional mechanical problems resulted in returning to Pascagoula on August 19 for repairs. Vessel again departed on August 23 and worked through August 28. Departure for Leg III was scheduled for August 29, but was delayed due to ship's personnel issues until August 30. A total of 20 scheduled longline stations were dropped from the west Florida Shelf area due to delays.

The primary goal of this survey is to assess the abundance and distribution of coastal sharks, red snapper (*Lutjanus campechanus*), grouper species and other associated species caught on longline gear between 9 and 366 m depth. Stations were randomly selected and proportionally allocated by shelf area in 60 nautical mile contiguous sampling zones.

OBJECTIVES:

- 1) Determine relative abundance of coastal sharks.
- 2) Determine distribution by species, size and sex of coastal sharks
- 3) Tag and release sharks
- 4) Determine abundance and distribution of red snapper (*Lutjanus campechanus*), grouper and other associated species.
- 5) Collect CTD casts to profile water temperature, salinity, dissolved oxygen, fluorometry and percent light transmission at all survey sites.
- 6) Collect shark fin clips for genetic identification by Dr. Joe Quattro at the University of South Carolina.
- 7) Collect fin clips, otoliths, and gonads of red snapper, grouper species, and mackerel species for scientists at the Panama City Laboratory.
- 8) Collect shark specimens and samples for scientists at the NMFS Pascagoula Laboratory.
- 9) To collect shark ova for Dr. James Gelsleichter of Mote Marine Laboratory, Sarasota, Florida

- 10) To collect shark ovaries for Dr. Ian Davenport of Xavier University, New Orleans, Louisiana.
- 11) To collect fin clips from finfish species for archiving at the NOAA laboratory in Charleston, SC.

MATERIALS AND METHODS:

The vessel was outfitted with commercial-type longline gear. Monofilament mainline (426 kg or 100 lb test, 4 mm diameter, 1 nautical mile length) was deployed of the stern through a series of blocks. Radar reflector buoys were deployed at the start and end of each set (with strobes at night) and 5 kg (11 lb) weights were clipped to the mainline at the start, middle, and end of set. 3.66 m (12 ft) gangions (332 kg or 700 lb test, 3 mm diameter) with circle hooks (#15, Mustad #39960D) were clipped to the mainline as it was deployed. Vessel speed varied from 3.5 – 4 knots during the set. A timed beeper was used to establish relatively uniform spacing for attaching hooks to the mainline. Hand-held radios were used for communications between the bridge, stern, and longline reel operator.

Bottom longline effort was 100 hooks fished for 1 hour (soak time). Soak time was determined from the time the last radar reflector buoy was deployed during the set until the first radar reflector buoy was retrieved to begin the haulback. Some soak times varied depending on survey conditions or gear problems, but were generally 1 hour. Hooks were baited with Atlantic mackerel (*Scomber scombrous*, 12 kg or 26 lb per set) cut to fit the circle hooks. Catch was brought aboard (for sharks less than approximately 1.5 m total length, all finfish), identified, weighed, measured and tagged (live sharks). Provided sea conditions were favorable, a catch landing sling deployed with the ship's articulating crane was used to bring large sharks to rail height for collecting biological data (lengths, weights, to confirm identification) including tagging and collection of fin clips. The landing sling was equipped with a remotely operated electronic dynamometer for obtaining specimen weights. Fish not brought aboard or placed in the landing sling were held at the surface for estimating size and weight or for tagging. Haulback speed was approximately 3.5 – 4 knots and haulback time ranged from 20 – 60 minutes, depending on catch rates and sea conditions.

Environmental data were collected using a CTD deployed during the soak. The CTD provides a surface to bottom profile of temperature, salinity, dissolved oxygen, turbidity, and depth.

Longline sets and haulbacks were monitored using shipboard SCS/FSCS systems operated with weatherproof laptop computers programmed with touch screen options. SCS/FSCS software allowed data acquisition needed to describe set and haulback events (GMT time/date stamp, location, ship sensor information, and to describe catch and gear specifics. Other data elements recorded on per hook basis were hook status (bait missing, damaged, or whole), gear status (hook damaged or missing) and visual events (e.g. dolphins sighted). Hook timers were used for each hook deployed and time on hook for captures was included with SCS/FSCS catch data.

SURVEY DESIGN:

All randomly selected longline survey sites were occupied in the most time-efficient manner possible and were not designated as day or night sites prior to the survey. Survey sites for bottom longline effort were selected at random within 3 depth strata: 9 – 55 m (5 – 30 fm), 55 – 183 m (30 – 100 fm), and 183 – 366 m (100 – 200 fm). Most bottom longline sets were conducted parallel to depth contours unless survey conditions (i.e. current, sea state, wind) necessitated a different orientation. The number of randomly selected survey sites occupied within 60 nautical mile contiguous sampling zones was proportionally allocated based on the amount of continental shelf area within each of the depth strata. Fifty percent of stations were allocated between 9 – 55 m, 40% between 55 – 183 m, and 10% within 183 – 366 m. At least 2 longline sites between 183 – 366 m were located in each sampling zone regardless of shelf area. Sampling zones with a broad continental shelf were allocated more survey sites than sampling zones with a narrow shelf.

RESULTS:

Bottom longline effort produced 1106 captures from 156 bottom longline sets (Table 1). Elasmobranchs constituted 71 % of the catch, teleosts constituted the remaining 29 %. Elasmobranchs captured were represented by 20 shark species and 2 ray species; teleosts were represented by 36 species (Table 2).

Catch rate for all sharks combined was 5.2 sharks/100 hook hr. The most frequently captured shark was the Atlantic sharpnose shark, constituting 54 % of shark captures (Table 2), followed by blacktip shark, blacknose shark, and sandbar shark (Table 2). The most frequently captured teleost was the king snake eel, followed by tilefish, red grouper, red snapper, and yellowedge grouper (Table 2). Sharks and teleosts listed as unidentified in Table 2 were captures that escaped from the hook before a positive identification could be determined.

SURVEY PARTICIPANTS:

Leg I, 8/10 – 8/13/07

Mark Grace	FPC	NMFS/MS Lab
Lisa Jones	Biologist	NMFS/MS Lab
John Moser	Biologist	NMFS/MS Lab
Dean Landi	Biologist	NMFS/MS Lab
Lanora Lang	Biologist	NMFS/MS Lab
Michael Felts	Biologist	NMFS/MS Lab
Joey Salisbury	Intern	NMFS/MS Lab
Roderick McGee	Intern	NMFS/MS Lab

Kristen Kelly	Intern	NMFS/MS Lab
Loukea Kovanis-Wilson	Teacher	Clarksdale, H.S., MI

Leg II, 8/14 – 8/28/07

Mark Grace	FPC	NMFS/MS Lab
Lisa Jones	Biologist	NMFS/MS Lab
Michael Felts	Biologist	NMFS/MS Lab
Michael Hendon	Biologist	NMFS/MS Lab
Carolyn Burks	Biologist	NMFS/MS Lab
Kristen Kelly	Intern	NMFS/MS Lab
Megan Winton	Biologist	NMFS/PCity, FL
Melissa Cook	Biologist	NMFS/PCity, FL
Nicole Shafer	Volunteer	Univ. So. AL

Leg III, 8/30 – 9/11/07

Lisa Jones	FPC	NMFS/MS Lab
Trey Driggers	Biologist	NMFS/MS Lab
Dean Landi	Biologist	NMFS/MS Lab
Lori Hale	Biologist	NMFS/PCity, FL
Dana Bethea	Biologist	NMFS/PCity, FL
Michael Felts	Biologist	NMFS/MS Lab
Christina Conrath	Volunteer	Univ. FL
Willy Cupit	Volunteer	TX Parks and Wildlife
Brad Grimmet	Volunteer	TX Parks and Wildlife
Susan Carlin	Volunteer	St. Peter, MN

Leg IV, 9/13 – 9/27/07

Mark Grace	FPC	NMFS/MS Lab
Trey Driggers	Biologist	NMFS/MS Lab
Lisa Jones	Biologist	NMFS/MS Lab
Michael Hendon	Biologist	NMFS/MS Lab
Carrie Horton	Biologist	NMFS/MS Lab
Kristen Kelly	Intern	NMFS/MS Lab
Laura Goetz	Biologist	NMFS/PCity, FL
Katie Seigfried	Biologist	NMFS/PCity, FL
Michael Clark	Biologist	NMFS Silver Spring, ML
Neven Popovic	Volunteer	FDA, Washington, D.C.
Mary Ladnier	Volunteer	Pearl River Jr. College, MS

SUBMITTED BY:

Mark Grace
 Mark Grace
 Field Party Chief, Legs I, II, IV

Lisa Jones
 Lisa Jones
 Field Party Chief, Leg III

John Watson
 John Watson
 NMFS MS Labs
 Acting Laboratory Director

Alex Chester
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 NMFS, SEFSC
 Acting Center Director

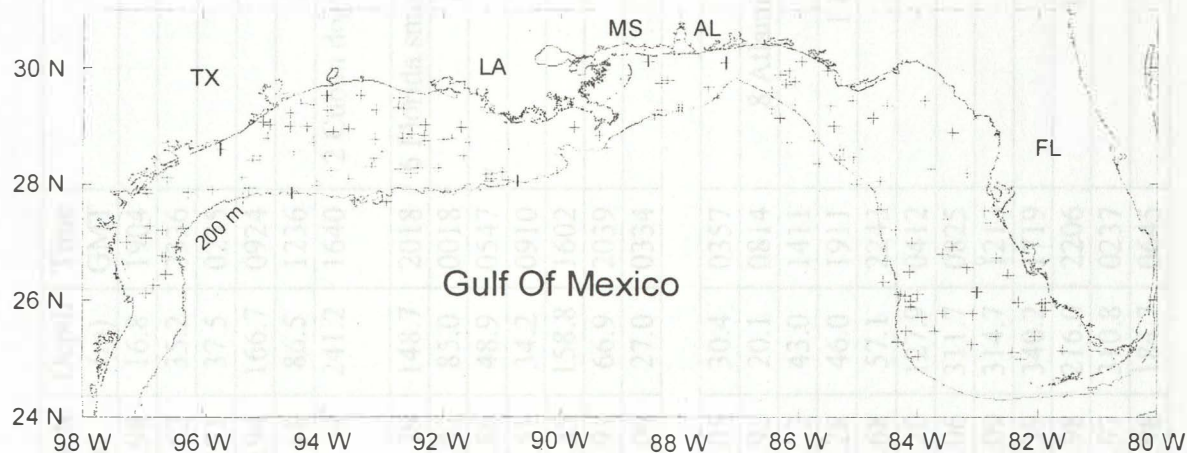


Figure 1. Station locations for the 2007 Bottom Longline Survey OT-07-04(277); station locations (+), latitude degrees north (N), longitude degrees west (W).

Table 1. Station summary for 2007 Bottom Longline Cruise OT-07-04(277).

Station	Date	Latitude (N)	Longitude (W)	Depth (m)	Time GMT	Catch
001	8/10/07	3005.98	08831.98	16.8	1904	3 blacknose sharks, 5 spinner sharks
002	8/10/07	2947.10	08812.62	35.2	2336	2 blacknose sharks, 1 tiger shark
003	8/11/07	2944.38	08818.71	37.5	0235	28 Atlantic sharpnose sharks, 2 blacktip sharks
004	8/11/07	2911.75	08825.94	166.7	0924	1 Florida smoothhound, 3 king snake eels
005	8/11/07	2916.36	08818.18	86.5	1236	2 amberjack, 1 scalloped hammerhead, 1 scamp.
006	8/11/07	2914.90	08801.54	241.2	1640	2 Cuban dogfish, 1 smooth dogfish, 3 Florida smoothhounds, 1 king snake eel, 5 tilefish
007	8/11/07	2918.56	08757.79	148.7	2018	6 Florida smoothhounds, 6 king snake eels, 2 tilefish, 1 yellowedge grouper
008	8/12/07	2921.90	08757.82	85.0	0018	1 Florida smoothhound, 1 scalloped hammerhead
009	8/12/07	2939.50	08731.86	48.9	0547	1 shrimp eel
010	8/12/07	2927.85	08722.51	34.2	0910	2 shortspine dogfish, 2 tilefish, 1 gulf hake
011	8/12/07	2934.31	08628.45	158.8	1602	5 yellowedge grouper, 1 king snake eel
012	8/12/07	2952.37	08619.91	66.9	2039	1 smooth dogfish, 1 palespotted eel
013	8/13/07	3004.50	08714.09	27.0	0334	no catch
Begin Leg II						
014	8/15/07	3005.23	08558.05	30.4	0357	no catch
015	8/15/07	2955.91	08532.92	20.1	0814	8 Atlantic sharpnose sharks, 1 blacktip shark, 1 gafftopsail catfish
016	8/15/07	2955.95	08611.23	43.0	1411	3 Atlantic sharpnose sharks
017	8/15/07	2944.88	08605.28	46.0	1911	1 blacknose shark, 1 blacktip shark, 3 sandbar sharks
018	8/15/07	2942.34	08613.68	57.1	2243	2 Sandbar sharks
019	8/16/07	2921.54	08605.20	127.9	0412	2 smooth dogfish, 2 Florida smoothhounds
020	8/16/07	2917.90	08628.06	311.7	0825	9 tilefish
021	8/16/07	2907.07	08620.09	314.7	1213	1 shortspine dogfish, 2 gulf hake, 10 tilefish
022	8/16/07	2843.19	08613.39	340.2	1719	1 Cuban dogfish, 3 Tilefish
023	8/16/07	2843.58	08544.98	216.0	2206	1 blacktail moray, 2 yellowedge grouper, 4 tilefish
024	8/17/07	2821.15	08540.97	310.8	0237	2 tilefish
025	8/17/07	2824.10	08519.98	184.7	0645	1 Cuban dogfish

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026	8/17/07	2827.25	08505.76	134.6	1012	1 smooth dogfish
027	8/17/07	2835.68	08457.78	64.9	1328	No catch
028	8/17/07	2833.94	08516.60	154.9	1713	2 Florida smoothhound
029	8/17/07	2835.46	08519.66	159.1	1942	1 blackfin tuna
030	8/18/07	2858.83	08525.87	95.9	0014	1 blacknose shark, 1 smooth dogfish
031	8/18/07	2920.03	08528.45	37.4	0408	2 sandbar sharks
032	8/18/07	2925.28	08507.37	22.6	1209	1 blacknose shark
033	8/18/07	2907.64	08446.24	35.4	1710	1 blacknose shark, 2 sandbar shark, 1 palespotted eel
034	8/24/07	2858.38	08945.85	43.8	1134	2 Atlantic sharpnose sharks, 7 blacktip sharks
035	8/24/07	2829.53	08959.84	93.8	1810	10 Atlantic sharpnose sharks, 1 yellowedge grouper
036	8/24/07	2811.42	09002.84	199.4	2233	1 smooth dogfish, 1 Warsaw grouper, 5 yellowedge grouper, 3 tilefish
037	8/25/07	2803.00	09043.35	154.6	0453	1 Florida smoothhound, 1 silky shark, 8 king snake eels, 1 spinycheek scorpionfish
038	8/25/07	2803.16	09053.40	129.4	0811	2 gulf smoothhounds, 1 night shark, 3 king snake eels
039	8/25/07	2811.61	09059.06	84.6	1117	2 gulf smoothhounds, 1 sandbar shark, 1 king snake eel
040	8/25/07	2811.20	09109.47	87.5	1444	1 gulf smoothhound, 1 amberjack
041	8/25/07	2810.04	09115.21	92.4	1733	2 gulf smoothhounds, 1 silky shark, 1 sandbar shark, 1 king snake eel
042	8/25/07	2805.79	09109.59	106.3	2039	1 king snake eel
043	8/26/07	2750.85	09156.73	252.7	0302	1 scalloped hammerhead, 2 gulf hake, 3 tilefish, 1 king snake eel
044	8/26/07	2816.59	09204.67	65.9	0743	3 gulf smoothhounds, 1 sandbar shark, 1 king snake eel, 1 rock sea bass
045	8/26/07	2845.08	09158.45	32.2	1308	2 Atlantic sharpnose sharks, 1 blacknose shark, 8 spinner sharks
046	8/26/07	2847.16	09150.05	28.2	1621	9 Atlantic sharpnose sharks, 2 spinner sharks
047	8/26/07	2858.05	09140.78	16.8	1950	2 bull sharks, 13 blacktip sharks, 9 gafftopsail catfish
048	8/27/07	2842.60	09132.69	27.0	0033	2 blacktip sharks, 1 spinner shark
049	8/27/07	2828.96	09139.10	50.3	0426	5 Atlantic sharpnose sharks, 1 king snake eel
050	8/27/07	2835.67	09052.16	21.1	1112	2 blacktip sharks, 1 bull shark, 1 croaker
051	8/27/07	2837.04	08913.58	239.8	2204	1 scalloped hammerhead shark, 1 yellowedge grouper, 1 smoothhound, 13 king snake eels
Begin Leg III						
052	9/01/07	2607.70	09656.13	31.9	1730	no catch

Table 1. Station summary for 2007 Bottom Longline Cruise OT-07-04(277).

053	9/01/07	2616.12	09648.83	40.6	2041	1 cobia
054	9/02/07	2626.36	09635.97	56.5	0029	21 Atlantic sharpnose sharks, 2 night sharks, 1 scalloped hammerhead, 4 red snapper
055	9/02/07	2645.68	09639.74	86.0	0514	1 Atlantic sharpnose shark, 1 red snapper, 1 smoothhound
056	9/02/07	2645.20	09636.02	95.5	0730	1 king snake eel
057	9/02/07	2654.47	09625.18	243.1	1100	5 tilefish
058	9/02/07	2714.19	09618.54	184.2	1516	1 smooth dogfish, 1 Cuban dogfish, 1 tilefish, 1 king snake eel
059	9/02/07	2712.88	09640.15	75.7	1948	3 Atlantic sharpnose sharks, 1 red snapper
060	9/02/07	2717.20	09652.40	47.2	2258	1 king snake eel
061	9/3/07	2703.70	09656.44	47.1	0330	2 red snapper, 1 Atlantic sharpnose shark, 1 scalloped hammerhead, 1 silky shark
062	9/03/07	2700.01	09715.94	22.9	0159	5 blacktip sharks, 2 Atlantic sharpnose sharks
063	9/03/07	2750.16	09654.87	18.7	1425	no catch
064	9/03/07	2753.51	09656.07	14.0	1727	no catch
065	9/03/07	2806.29	09634.69	18.8	2146	3 spinner sharks, 1 southern stingray, 1 spotted spoon-nosed eel
066	9/04/07	2751.06	09613.90	54.5	0424	10 Atlantic sharpnose sharks, 2 sandbar sharks, 1 blacknose shark, 1 scalloped hammerhead, 1 red snapper
067	9/04/07	2753.97	09549.37	56.6	0727	4 red snapper, 4 Atlantic sharpnose sharks, 3 sandbar sharks, 1 scalloped hammerhead
068	9/04/07	2806.89	09520.05	49.8	1247	24 Atlantic sharpnose sharks
069	9/04/07	2745.72	09519.62	218.5	1705	3 Cuban dogfish, 1 southern hake
070	9/04/07	2755.17	09513.54	88.7	2005	4 red snapper
071	9/04/07	2803.92	09459.22	65.7	2329	1 scalloped hammerhead shark, 1 unidentified shark
072	9/05/07	2800.87	09453.25	76.7	0221	2 sandbar sharks, 3 gulf smoothhounds, 1 smooth dogfish, 7 red snapper, 1 yellowedge grouper
073	9/05/07	2750.50	09431.22	247.5	0659	2 gulf hake, 1 Cuban dogfish
074	9/05/07	2758.23	09406.09	80.6	1133	1 smooth dogfish, 1 gulf smoothhound
075	9/05/07	2743.31	09328.94	233.8	1945	3 Cuban dogfish, 8 tilefish
076	9/06/07	2741.81	09256.89	318.9	0018	3 tilefish, 1 Gulf hake
077	9/06/07	2815.02	09242.70	59.9	0608	14 Atlantic sharpnose sharks

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078	9/06/07	2810.88	09231.89	71.8	0916	9 red snapper, 2 sandbar sharks, 2 Gulf smoothhounds
079	9/06/07	2816.72	09224.73	63.3	1259	11 Atlantic sharpnose sharks, 1 blacktip shark
080	9/06/07	2847.33	09240.20	30.3	1846	1 blacknose shark
081	9/06/07	2851.36	09230.57	30.0	2135	2 Atlantic sharpnose sharks, 1 tiger shark
082	9/06/07	2844.16	09217.60	36.3	0107	5 blacknose sharks, 4 blacktip sharks
083	9/06/07	2849.19	09218.37	32.2	0502	3 blacktip sharks, 2 Atlantic sharpnose sharks, 1 blacknose shark
084	9/06/07	2900.71	09217.21	23.1	0807	2 Atlantic sharpnose sharks, 1 bull shark, 1 spinner shark, 1 unidentified carcharhinid
085	9/07/07	2917.05	09239.57	17.3	1335	8 blacktip sharks, 6 Atlantic sharpnose sharks, 6 gafftopsail catfish, 1 southern stingray
086	9/07/07	2927.81	09243.98	14.3	1718	4 Atlantic sharpnose sharks, 2 bull sharks, 24 blacktip sharks
087	9/07/07	2918.74	09244.84	17.1	2114	22 Atlantic sharpnose sharks, 2 spinner sharks
088	9/08/07	2916.15	09306.85	17.5	0101	44 Atlantic sharpnose sharks, 2 spinner sharks
089	9/08/07	2930.95	09322.01	13	0020	9 blacktip sharks, 5 Atlantic sharpnose sharks, 1 gafftopsail catfish
090	9/08/07	2856.07	09334.35	23.7	1154	1 blacknose shark
091	9/08/07	2845.90	09308.39	27.9	1648	2 Atlantic sharpnose sharks, 1 scalloped hammerhead shark
092	9/08/07	2833.36	09300.92	41.9	2027	29 Atlantic sharpnose sharks
093	9/08/07	2826.62	09308.99	43.8	2356	32 Atlantic sharpnose sharks, 2 blacktip sharks, 1 bull shark, 1 tiger shark
094	9/09/07	2817.61	09312.06	56.7	0404	17 Atlantic sharpnose sharks
095	9/09/07	2805.58	09334.74	69.5	0851	4 red snapper, 3 Atlantic sharpnose sharks, 2 sandbar sharks, 1 silky shark
096	9/09/07	2813.30	09351.85	65.4	1328	1 king snake eel, 1 silky shark, 1 tiger shark
097	9/09/07	2808.94	09357.57	68.3	1703	2 scalloped hammerhead sharks, 1 unidentified hammerhead, 1 red snapper, 1 king snake eel
098	9/09/07	2842.94	09409.93	28.0	2251	2 blacknose sharks
099	9/10/07	2832.30	09429.15	35.5	0249	6 blacknose sharks, 1 blacktip shark, 1 tiger shark
100	9/10/07	2828.15	09503.55	35.9	0812	4 blacknose sharks, 2 Atlantic sharpnose sharks, 2 blacktip sharks, 1 bull shark
101	9/10/07	2824.49	09509.89	35.5	1148	1 bull shark, 1 tiger shark
102	9/10/07	2835.71	09542.13	16.0	1647	24 Atlantic sharpnose sharks

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103	9/10/07	2847.26	09455.05	21.5	2328	1 bull shark
104	9/11/07	2859.18	09433.21	18.9	0414	4 blacknose sharks, 1 hardhead catfish
105	9/11/07	2859.21	09416.91	19.1	0748	3 Atlantic sharpnose sharks
106	9/11/07	2913.56	09403.25	15.9	1148	21 Atlantic sharpnose sharks, 1 hardhead catfish
107	9/11/07	2915.44	09355.53	16.2	1507	5 Atlantic sharpnose sharks
108	9/11/07	2921.97	09410.22	14.4	1829	3 Atlantic sharpnose sharks
109	6/11/07	2931.00	09356.34	13.1	2154	1 Atlantic sharpnose shark, 2 blacktip sharks, 1 spinner shark, 1 bull shark, 2 gafftopsail catfish
110	9/12/07	2922.58	09422.10	14.3	0223	9 blacktip sharks, 1 spinner shark, 1 Atlantic sharpnose shark, 5 red drum, 2 gafftopsail catfish, 1 hardhead catfish
Begin Leg IV						
111	9/14/07	2802.12	09111.18	122.6	1659	1 smooth dogfish, 1 gulf smooth dogfish, 3 red snapper, 2 yellowedge grouper, 1 yellowmouth grouper
112	9/15/07	2849.54	08919.98	85.9	0512	3 Atlantic sharpnose sharks, 1 smooth dogfish, 5 Gulf smoothhounds, 1 smoothhound sp., 3 scalloped hammerheads, 2 sandbar sharks, 1 red snapper, 6 king snake eels
113	9/16/07	2529.10	08411.88	156.7	1045	2 yellowedge grouper
114	9/16/07	2517.90	08420.68	275.9	1408	1 smooth dogfish
115	9/16/07	2502.48	08359.73	125.5	1858	1 unidentified carcharhinid
116	9/17/07	2529.10	08342.68	85.5	0039	6 red snapper
117	9/17/07	2514.98	08305.44	56.5	0807	1 Atlantic sharpnose sharks, 5 blacknose sharks
118	9/17/07	2522.99	08242.04	35.6	1238	20 Atlantic sharpnose sharks, 1 blacknose shark
119	9/17/07	2506.58	08224.82	32.5	1722	6 blacknose sharks
120	9/18/07	2548.84	08152.52	13.7	0012	1 sharpnose shark, 1 bluefish
121	9/18/07	2557.20	08153.05	11.4	0315	1 blacknose shark
122	9/18/07	2555.95	08156.65	13.9	0552	3 blacknose sharks, 3 red grouper
123	9/18/07	2558.22	08219.85	24.3	0954	2 Atlantic sharpnose sharks, 1 tiger shark
124	9/18/07	2608.42	08300.67	43.0	1535	5 sharpnose sharks
125	9/18/07	2546.32	08305.17	52.3	1941	1 sharpnose shark, 2 sandbar sharks, 1 barracuda
126	9/19/07	2547.10	08334.80	72.9	0015	1 silky shark

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127	9/19/07	2633.29	08310.20	45.2	0854	7 Atlantic sharpnose sharks, 5 red grouper
128	9/19/07	2625.63	08229.62	21.8	1507	1 blacknose shark, 1 nurse shark
129	9/19/07	2642.94	08241.02	24.3	1923	2 nurse sharks, 1 silky shark, 1 blacknose, 3 red groupers
130	9/19/07	2508.05	08135.27	11.4	1650	1 nurse shark, 1 scalloped hammerhead, 2 blacknose sharks, 1 Atlantic sharpnose shark, 2 ladyfish
131	9/20/07	2523.11	08202.66	21.1	2221	1 barracuda
132	9/21/07	2459.93	08216.69	26.3	0308	7 Atlantic sharpnose sharks, 20 blacknose sharks, 3 blacktip sharks
133	9/21/07	2542.48	08356.34	129.3	1610	1 specked hind , 1 smooth dogfish
134	9/21/07	2553.74	08350.19	108.3	1923	1 smooth dogfish, 1 sharksucker
135	9/21/07	2553.50	08407.53	154.9	2323	1 yellowedge grouper
136	9/22/07	2559.11	08407.18	157.3	0257	9 yellowedge grouper, 1 snowy grouper
137	9/22/07	2605.77	08400.07	134.6	0616	no catch
138	9/22/07	2604.39	08412.93	172.7	0944	1 yellowedge grouper
139	9/22/07	2605.80	08418.41	187.5	1235	1 yellowedge grouper
140	9/22/07	2618.76	08435.11	212.8	1651	1 Florida smoothhound, 1 bluelined tilefish, 5 yellowedge grouper
141	9/22/07	2629.56	08409.08	146.4	2106	1 shark sucker, 3 speckled hinds
142	9/23/07	2647.64	08335.33	59.2	0231	4 sharpnose sharks, 1 barracuda, 1 sandperch
143	9/23/07	2654.59	08326.12	51.8	0534	15 Atlantic sharpnose sharks, 1 blacknose shark, 1 blacktip shark, 5 red grouper
144	9/23/07	2731.52	08253.14	12.0	1200	1 blacknose shark, 1 bighead searobin
145	9/23/07	2719.68	08247.17	14.3	2217	1 great hammerhead, 1 sharpnose, 2 blacknose, 1 pinfish
146	9/24/07	2724.08	08330.18	43.9	0403	2 Atlantic sharpnose sharks, 1 blacknose shark, 8 red grouper
147	9/24/07	2659.13	08406.41	98.8	1008	1 snakefish, 2 red grouper, 1 red snapper
148	9/24/07	2712.43	08422.81	135.0	1403	1 bignose shark
149	9/24/07	2733.52	08437.28	167.3	1833	1 smooth dogfish, 2 pale stopped eels
150	9/24/07	2759.61	08502.47	270.3	2351	no catch
151	9/25/07	2801.86	08438.60	97.5	0413	1 clearnose skate
152	9/25/07	2814.84	08348.20	34.9	1122	1 blacknose shark, 23 red grouper
153	9/25/07	2811.44	08310.01	18.7	1705	no catch

Table 1. Station summary for 2007 Bottom Longline Cruise OT-07-04(277).

154	9/25/07	2851.99	08325.16	17.8	2311	3 blacknose sharks
155	9/29/07	2925.57	08353.17	18.3	0542	2 blacknose sharks, 2 red grouper, 1 gag grouper, 3 leopard toadfish, 1 hardhead catfish
156	9/29/07	2920.36	08431.67	29.7	1009	3 blacknose sharks

Table 1. Station summary for 2007 Bottom Longline Cruise OT-07-04(277).

Table 2. Bottom longline catch totals for 2007 OREGON II OT-07-04 (277).

Elasmobranchs (786)

Blacktip shark, *Carcharhinus limbatus* (102)
Spinner shark, *Carcharhinus brevipinna* (37)
Sandbar shark, *Carcharhinus plumbeus* (27)
Scalloped hammerhead, *Sphyrna lewini* (16)
Bull shark, *Carcharhinus leucas* (12)
Tiger shark, *Galeocerdo cuvieri* (7)
Silky shark, *Carcharhinus falciformis* (7)
Night shark, *Carcharhinus signatus* (3)
Nurse shark, *Ginglymostoma cirratum* (2)
Unidentified shark (2)
Bignose shark, *Carcharhinus altimus* (1)
Unidentified carcharhinid (1)
Unidentified hammerhead (1)
Great hammerhead, *Sphyrna mokarran* (1)

Atlantic sharpnose shark, *Rhizoprionodon terraenovae* (423)
Blacknose shark, *Carcharhinus acronotus* (73)
Smooth dogfish, *Mustelus canis* (23)
Gulf smoothhound, *Mustelus sinusmexicanus* (22)
Cuban dogfish, *Squalus cubensis* (12)
Florida smoothhound, *Mustelus norrisi* (6)
Dogfish, *Squalus mitsukurii* (3)
Smoothhound, *Mustelus sp.* (2)

Southern stingray, *Dasyatis americana* (2)
Clearence skate, *Raja eglanteria* (1)

Teleosts (320)

King snake eel, *Ophichthus rex* (52)
Red grouper, *Epinephelus morio* (51)
Tilefish, *Lopholatilus chamaeleonticeps* (51)
Red snapper, *Lutjanus campechanus* (49)
Yellowedge grouper, *Epinephelus flavolimbatus* (38)
Gafftopsail catfish, *Bagre marinus* (21)
Gulf hake, *Urophycis cirrata*, (8)
Blacktail moray, *Gymnothorax kolpos* (8)
Red drum, *Sciaenops ocellatus* (5)
Hardhead catfish, *Arius felis* (4)
Palespotted eel, *Ophichthus ocellatus* (4)

Table 1. Station summary for 2007 Bottom Longline Cruise OT-07-04(277).

Table 2 continued.

Speckled hind, *Epinephelus drummondhayi* (4)
Amberjack, *Seriola dumerili* (3)
Barracuda, *Sphyraena barracuda* (3)
Shark sucker, *Echeneis naucrates* (2)
Ladyfish, *Elops saurus* (2)
Warsaw grouper, *Epinephelus nigritus* (1)
Yellowmouth grouper, *Mycteroperca interstitialis* (1)
Southern hake, *Urophycis floridana* (1)
Blackfin tuna, *Thunnus thynnus* (1)
Rock seabass, *Centropristis philidelphica* (1)
Bluefish, *Pomatomus saltatrix* (1)
Gag, *Mycteroperca microlepis* (1)
Scamp, *Mycteroperca phenax* (1)
Snowy grouper, *Epinephelus niveatus* (1)
Sandperch, *Diplectrum formosum* (1)
Atlantic croaker, *Micropogonias undulatus* (1)
Leopard toadfish, *Opsanus pardus* (1)
Blueline tilefish, *Caulolatilus microps* (1)
Snakefish, *Trachinocephalus myops* (1)
Warsaw grouper, *Epinephelus nigritus* (1)
Pinfish, *Lagodon rhomboides* (1)
Cobia, *Rachycentron canadum* (1)
Bighead searobin, *Prionotus tribulus* (1)
Spinycheek scorpionfish, *Neomerinthe hemingwayi* (1)
Spotted spoon-nose eel, *Echiophis intertinctus* (1)