

Table 4.4.1a SOUTHEAST REGION FISH BYCATCH BY FISHERY (2014) Bycatch estimates are in live pounds or number of individuals. Estimates in the HMS Pelagic Longline Fishery reflect the average from the years identified. Some fishery bycatch ratios (marked **) could not be developed because bycatch was estimated at least partly in terms of numbers, and landings were reported in weight. Bycatch of a species that is the object of a directed fishery (e.g., swordfish in the HMS Pelagic Longline Fishery) may be regulatory discards, i.e., fish harvested in a fishery that cannot be kept due to size restrictions or other regulations.

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTES
Atlantic and Gulf of Mexico HMS Pelagic Longline %						
Albacore - North Atlantic	Thunnus alalunga	2012-2014	81,833.00	POUND		
Atlantic sailfish	Istiophorus platypterus	2012-2014	24,180.00	POUND		
Bigeye tuna - Atlantic	Thunnus obesus	2012-2014	85,217.00	POUND		
Blackfin tuna - South Atlantic	Thunnus atlanticus	2012-2014	42,231.00	POUND		
Blue marlin - Atlantic	Makaira nigricans	2012-2014	117,060.00	POUND		
Blue shark - North Atlantic	Prionace glauca	2012-2014	269,186.00	POUND		
Bluefin tuna - Western Atlantic	Thunnus thynnus	2012-2014	305,988.00	POUND		
Large coastal sharks		2012-2014	227,393.00	POUND		
Pelagic sharks		2012-2014	173,245.00	POUND		
Skipjack tuna - Central Western Pacific	Katsuwonus pelamis	2012-2014	17,509.00	POUND		
Swordfish - North Atlantic	Xiphias gladius	2012-2014	301,182.00	POUND		
White marlin - Atlantic	Kajikia albida	2012-2014	24,277.00	POUND		
Yellowfin tuna - Atlantic	Thunnus albacares	2012-2014	88,389.00	POUND		
TOTAL FISHERY BYCATCH			1,757,690.00	POUND		
TOTAL FISHERY LANDINGS			9,715,772.00	POUND		
TOTAL CATCH (Bycatch + Landings)			11,473,462.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.15			
Gulf of Mexico Coastal Migratory Pelagic Troll						
Amberfishes, banded rudderfish, amberjacks, and yellowtails	Seriola	2014	292.24	INDIVIDUAL	6.44	
Blacktip shark	Carcharhinus limbatus	2014	1,504.28	INDIVIDUAL	4.06	
Blue runner	Caranx crysos	2014	1,196.84	INDIVIDUAL	7.52	
Cartilaginous fishes	Chondrichthyes	2014	472.73	INDIVIDUAL	4.51	
Cobia	Rachycentron canadum	2014	17.32	INDIVIDUAL	7.81	
Crevalle jack	Caranx hippos	2014	271.10	INDIVIDUAL	3.26	
Greater amberjack	Seriola dumerili	2014	299.21	INDIVIDUAL	8.42	m
Groupers and sea basses	Serranidae	2014	199.47	INDIVIDUAL	10.68	
Jacks and pompanos	Carangidae	2014	897.63	INDIVIDUAL	10.68	
Little tunny	Euthynnus alletteratus	2014	234.38	INDIVIDUAL	6.25	

Mackerels	Scomberomorus	2014	14,225.10	INDIVIDUAL	1.16	
Red drum	Sciaenops ocellatus	2014	37.40	INDIVIDUAL	10.68	
Red snapper	Lutjanus campechanus	2014	111.35	INDIVIDUAL	3.91	h
TOTAL FISHERY BYCATCH			19,759.05	INDIVIDUAL		
TOTAL FISHERY LANDINGS			511,452.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			**			
Gulf of Mexico Reef Fish Bottom Longline						
Amberfishes, banded rudderfish, amberjacks, and yellowtails	Seriola	2014	1,022.06	INDIVIDUAL	4.22	
Black grouper	Mycteroperca bonaci	2014	71.09	INDIVIDUAL	11.49	
Blackfin tuna	Thunnus atlanticus	2014	22.58	INDIVIDUAL	12.37	
Blacktip shark	Carcharhinus limbatus	2014	395.73	INDIVIDUAL	7.89	
Blueline tilefish	Caulolatilus microps	2014	8,854.00	INDIVIDUAL	.2	b
Bluntnose sixgill shark	Hexanchus griseus	2014	68.56	INDIVIDUAL	12.37	
Cartilaginous fishes	Chondrichthyes	2014	2,145.66	INDIVIDUAL	6.78	
Dogfish sharks	Squalidae	2014	1,835.13	INDIVIDUAL	7.95	
Dusky shark	Carcharhinus obscurus	2014	84.69	INDIVIDUAL	12.37	
Finetooth shark	Carcharhinus isodon	2014	451.66	INDIVIDUAL	9.26	
Gag	Mycteroperca microlepis	2014	365.00	INDIVIDUAL	2.06	j
Gray snapper	Lutjanus griseus	2014	964.00	INDIVIDUAL	.3	i
Gray triggerfish	Balistes capriscus	2014	21.00	INDIVIDUAL	9.64	a
Greater amberjack	Seriola dumerili	2014	274.00	INDIVIDUAL	1.43	m
Grunts	Haemulidae	2014	8.82	INDIVIDUAL	12.37	
Hammerhead sharks	Sphyrnidae	2014	369.06	INDIVIDUAL	5.31	
Jacks and pompanos	Carangidae	2014	25.66	INDIVIDUAL	12.37	
Lionfishes	Pterois	2014	689.25	INDIVIDUAL	4.34	
Little tunny	Euthynnus alletteratus	2014	3.92	INDIVIDUAL	12.37	
Margate	Haemulon album	2014	44.11	INDIVIDUAL	12.37	
Mulletts	Mugilidae	2014	3.36	INDIVIDUAL	12.37	
Night shark	Carcharhinus signatus	2014	1,167.32	INDIVIDUAL	6.21	
Nurse shark	Ginglymostoma cirratum	2014	769.73	INDIVIDUAL	6.26	
Red drum	Sciaenops ocellatus	2014	2,117.15	INDIVIDUAL	12.37	
Red grouper	Epinephelus morio	2014	1,185,430.00	INDIVIDUAL	1.18	e
Red snapper	Lutjanus campechanus	2014	21,166.00	INDIVIDUAL	5.88	h
Remora	Remora	2014	178.65	INDIVIDUAL	7.74	

Sandbar shark	Carcharhinus plumbeus	2014	13,910.55	INDIVIDUAL	1.98	
Scamp	Mycteroperca phenax	2014	45.27	INDIVIDUAL	8.8	
Silky shark	Carcharhinus falciformis	2014	102.65	INDIVIDUAL	12.37	
Skates	Rajidae	2014	313.72	INDIVIDUAL	7.71	
Snowy grouper	Epinephelus niveatus	2014	383.00	INDIVIDUAL	3.16	f
Speckled hind	Epinephelus drummondhayi	2014	6,231.00	INDIVIDUAL	2.9	d
Spiny dogfish	Squalus acanthias	2014	2,127.91	INDIVIDUAL	8.37	
Tiger shark	Galeocerdo cuvier	2014	692.83	INDIVIDUAL	4.33	
Tilefish	Lopholatilus chamaeleonticeps	2014	3,781.97	INDIVIDUAL	7.19	
Triggerfishes	Balistidae	2014	18.31	INDIVIDUAL	8.02	
Tunas	Thunnus	2014	47.05	INDIVIDUAL	12.37	
Vermilion snapper	Rhomboplites aurorubens	2014	1,716.00	INDIVIDUAL	3.89	i
Yellowedge grouper	Epinephelus flavolimbatus	2014	569.90	INDIVIDUAL	6.01	
TOTAL FISHERY BYCATCH			1,258,488.35	INDIVIDUAL		
TOTAL FISHERY LANDINGS			5,690,891.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)				**		

Gulf of Mexico Reef Fish Vertical Line

African pompano	Alectis ciliaris	2014	447.63	INDIVIDUAL	32.73	
Almaco jack	Seriola rivoliana	2014	974.88	INDIVIDUAL	20.2	
Amberfishes, banded rudderfish, amberjacks, and yellowtails	Seriola	2014	10,208.24	INDIVIDUAL	7.89	
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	19,569.80	INDIVIDUAL	19.82	
Bigeye	Priacanthus arenatus	2014	2.74	INDIVIDUAL	32.73	
Black grouper	Mycteroperca bonaci	2014	15,932.31	INDIVIDUAL	12.25	
Black sea bass	Centropristis striata	2014	103.30	INDIVIDUAL	32.73	c
Blackbelly rosefish	Helicolenus dactylopterus	2014	335.72	INDIVIDUAL	32.73	
Blacktip shark	Carcharhinus limbatus	2014	11,047.35	INDIVIDUAL	12.85	
Blowfish	Tetraodontidae	2014	604.30	INDIVIDUAL	32.73	
Blue runner	Caranx crysos	2014	4,326.74	INDIVIDUAL	30.48	
Bluefish	Pomatomus saltatrix	2014	5,382.26	INDIVIDUAL	32.66	
Blueline tilefish	Caulolatilus microps	2014	2,980.00	INDIVIDUAL	.2	b
Bony fishes	Osteichthyes	2014	77.47	INDIVIDUAL	32.73	
Breams and porgies	Sparidae	2014	370.15	INDIVIDUAL	19.19	
Bull shark	Carcharhinus leucas	2014	181.80	INDIVIDUAL	18.89	
Cartilaginous fishes	Chondrichthyes	2014	15,301.83	INDIVIDUAL	6.74	

Cobia	Rachycentron canadum	2014	7,270.41	INDIVIDUAL	24.56	
Creole-fish	Paranthias furcifer	2014	58.75	INDIVIDUAL	23.37	
Crevalle jack	Caranx hippos	2014	15,691.64	INDIVIDUAL	13.79	
Dasyatidae	Dasyatidae	2014	3.00	INDIVIDUAL	32.73	
Dogfish sharks	Squalidae	2014	29.30	INDIVIDUAL	32.73	
Dolphinfish	Coryphaena	2014	297.25	INDIVIDUAL	19.13	
Dusky shark	Carcharhinus obscurus	2014	1.37	INDIVIDUAL	32.73	
Gag	Mycteroperca microlepis	2014	17,480.00	INDIVIDUAL	4.9	j
Goliath grouper	Epinephelus itajara	2014	3,505.86	INDIVIDUAL	9.22	
Gray snapper	Lutjanus griseus	2014	82,520.00	INDIVIDUAL	.3	i
Gray triggerfish	Balistes capricus	2014	127,116.00	INDIVIDUAL	2.72	a
Greater amberjack	Seriola dumerili	2014	66,149.00	INDIVIDUAL	2.99	m
Grunts	Haemulidae	2014	164.37	INDIVIDUAL	20.72	
Hakes	Urophycis	2014	11.72	INDIVIDUAL	32.73	
Hammerhead sharks	Sphyrnidae	2014	723.17	INDIVIDUAL	24.12	
Hogfish	Lachnolaimus maximus	2014	6,714.40	INDIVIDUAL	32.73	
Jacks and pompanos	Carangidae	2014	83.93	INDIVIDUAL	32.73	
Lane snapper	Lutjanus synagris	2014	12,666.97	INDIVIDUAL	18.37	
Lemon shark	Negaprion brevirostris	2014	758.95	INDIVIDUAL	19.47	
Lesser amberjack	Seriola fasciata	2014	671.44	INDIVIDUAL	32.73	
Lionfishes	Pterois	2014	109.96	INDIVIDUAL	24.99	
Little tunny	Euthynnus alletteratus	2014	15,617.43	INDIVIDUAL	22.94	
Mackerels	Scomberomorus	2014	112,246.23	INDIVIDUAL	7.33	
Mako sharks	Isurus	2014	4.48	INDIVIDUAL	23.33	
Mutton snapper	Lutjanus analis	2014	2,564.00	INDIVIDUAL	.68	g
Nurse shark	Ginglymostoma cirratum	2014	9,674.52	INDIVIDUAL	6.39	
Puddingwife	Halichoeres radiatus	2014	77.47	INDIVIDUAL	32.73	
Red drum	Sciaenops ocellatus	2014	40,854.24	INDIVIDUAL	17.25	
Red grouper	Epinephelus morio	2014	547,990.00	INDIVIDUAL	3.04	e
Red hind	Epinephelus guttatus	2014	335.72	INDIVIDUAL	32.73	
Red porgy	Pagrus pagrus	2014	7,104.94	INDIVIDUAL	14.61	k
Red snapper	Lutjanus campechanus	2014	1,122,476.00	INDIVIDUAL	5.46	h
Reef shark	Carcharhinus perezii	2014	550.26	INDIVIDUAL	30.01	
Remora	Remora	2014	17,993.89	INDIVIDUAL	8.06	

Sandbar shark	Carcharhinus plumbeus	2014	94.32	INDIVIDUAL	15.62	
Scalloped hammerhead shark	Sphyrna lewini	2014	402.86	INDIVIDUAL	32.73	
Scamp	Mycteroperca phenax	2014	6,710.01	INDIVIDUAL	9.63	
Silky shark	Carcharhinus falciformis	2014	7.16	INDIVIDUAL	32.73	
Snappers	Lutjanidae	2014	3,303.39	INDIVIDUAL	8.72	
Snowy grouper	Epinephelus niveatus	2014	452.00	INDIVIDUAL	7.81	f
Soliderfishes and squirrelfishes	Holocentridae	2014	1,745.74	INDIVIDUAL	32.73	
Spanish mackerel	Scomberomorus maculatus	2014	5,371.52	INDIVIDUAL	32.73	
Speckled hind	Epinephelus drummondhayi	2014	706.00	INDIVIDUAL	6.68	d
Tiger shark	Galeocerdo cuvier	2014	2,129.05	INDIVIDUAL	13.01	
Tilefish	Lopholatilus chamaeleonticeps	2014	237.80	INDIVIDUAL	23.17	
Tomtate	Haemulon aurolineatum	2014	2,468.13	INDIVIDUAL	17.29	
Triggerfishes	Balistidae	2014	357,714.86	INDIVIDUAL	16.41	
True eels	Anguilliformes	2014	11.89	INDIVIDUAL	13.79	
Vermilion snapper	Rhomboplites aurorubens	2014	481,437.00	INDIVIDUAL	1.88	l
White grunt	Haemulon plumierii	2014	596.84	INDIVIDUAL	32.73	
Yellowtail snapper	Ocyurus chrysurus	2014	345,770.84	INDIVIDUAL	4.8	
TOTAL FISHERY BYCATCH			3,516,522.60	INDIVIDUAL		
TOTAL FISHERY LANDINGS			7,971,555.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)				**		

Gulf of Mexico Shrimp Trawl[^]

Atlantic croaker	Micropogonias undulatus	2014	50,056,264.22	POUND	.03
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	1,385,311.87	POUND	.12
Black drum	Pogonias cromis	2014	433,651.60	POUND	.13
Blacknose shark	Carcharhinus acronotus	2014	7,380.89	POUND	1
Blacktip shark	Carcharhinus limbatus	2014	98,836.56	POUND	.21
Bonnethead shark	Sphyrna tiburo	2014	212,720.64	POUND	.13
Cobia	Rachycentron canadum	2014	9,923.92	POUND	.49
Finetooth shark	Carcharhinus isodon	2014	14,838.31	POUND	.57
Florida smoothhound	Mustelus norrisi	2014	0.00	POUND	0
Grouped finfish other than listed - Gulf of Mexico		2014	117,879,711.70	POUND	.01
Grouped sharks - Gulf of Mexico		2014	89,641.72	POUND	.22
King mackerel	Scomberomorus cavalla	2014	54,383.44	POUND	.2
Lane snapper	Lutjanus synagris	2014	656,914.33	POUND	.08

Lemon shark	Negaprion brevirostris	2014	0.00	POUND	0	
Longspine porgy	Stenotomus caprinus	2014	11,985,134.08	POUND	.03	
Miscellaneous crustaceans (unidentified)	Crustacea	2014	30,926,386.56	POUND	.02	
Non-crustacean invertebrates - Gulf of Mexico		2014	19,485,325.59	POUND	.03	
Penaeid shrimps	Penaeidae	2014	755,307.22	POUND	.08	
Red drum	Sciaenops ocellatus	2014	1,029,824.88	POUND	.09	
Red snapper	Lutjanus campechanus	2014	1,424,609.75	POUND	.06	h
Seatrout and weakfish - Gulf of Mexico	Cynoscion	2014	16,191,017.30	POUND	.03	
Smooth dogfish	Mustelus canis	2014	151,215.62	POUND	.14	
Snappers	Lutjanidae	2014	568.24	POUND	.59	
Southern flounder	Paralichthys lethostigma	2014	630,007.58	POUND	.06	
Spanish mackerel	Scomberomorus maculatus	2014	959,165.87	POUND	.08	
Spinner shark	Carcharhinus brevipinna	2014	54,282.41	POUND	.27	
Spotted seatrout	Cynoscion nebulosus	2014	15,402.70	POUND	.29	
Vermilion snapper	Rhomboplites aurorubens	2014	17,008.88	POUND	.17	i
TOTAL FISHERY BYCATCH			254,524,835.88	POUND		
TOTAL FISHERY LANDINGS			131,215,051.00	POUND		
TOTAL CATCH (Bycatch + Landings)			385,739,886.88	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.66			
Southeastern Atlantic Coastal Gillnet (Including North Carolina and Gulf of Mexico)						
Atlantic bumper	Chloroscombrus chrysurus	2014	5,800.60	INDIVIDUAL	11.6	
Atlantic croaker	Micropogonias undulatus	2014	75.90	INDIVIDUAL	7.6	
Atlantic moonfish	Selene setapinnis	2014	4,707.40	INDIVIDUAL	13.5	
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	20,450.80	POUND	2.9	
Atlantic spadefish	Chaetodipterus faber	2014	2,186.40	INDIVIDUAL	10.4	
Atlantic thread herring	Opisthonema oglinum	2014	321.30	INDIVIDUAL	8.6	
Banded drum	Larimus fasciatus	2014	535.40	INDIVIDUAL	4.7	
Banded rudderfish	Seriola zonata	2014	200.80	INDIVIDUAL	7.5	
Blacknose shark	Carcharhinus acronotus	2014	2,790.40	POUND	8.9	
Blacktip shark	Carcharhinus limbatus	2014	19,512.20	POUND	5.3	
Blue runner	Caranx crysos	2014	267.70	INDIVIDUAL	11.7	
Bluefish	Pomatomus saltatrix	2014	258.90	POUND	6.7	
Bonnethead shark	Sphyrna tiburo	2014	6,501.90	POUND	5.2	
Butterfish	Peprilus triacanthus	2014	124.90	INDIVIDUAL	13.1	

Clearnose skate	Raja eglanteria	2014	477.40	INDIVIDUAL	10.6	
Cobia	Rachycentron canadum	2014	782.40	POUND	6.3	
Cownose ray	Rhinoptera bonasus	2014	584.50	INDIVIDUAL	8.2	
Crevalle jack	Caranx hippos	2014	423.20	POUND	8.9	
Florida pompano	Trachinotus carolinus	2014	214.20	INDIVIDUAL	8.4	
Harvestfish	Peprilus paru	2014	200.80	INDIVIDUAL	11.8	
Houndfish	Tylosurus crocodilus	2014	13.40	INDIVIDUAL	17	
Inshore lizardfish	Synodus foetens	2014	905.80	INDIVIDUAL	8.3	
King mackerel	Scomberomorus cavalla	2014	31,452.20	POUND	10.4	
Lined seahorse	Hippocampus erectus	2014	89.20	INDIVIDUAL	17	
Little tunny	Euthynnus alletteratus	2014	312.30	INDIVIDUAL	12.3	
Pinfish	Lagodon rhomboides	2014	1,695.60	INDIVIDUAL	5.1	
Red grouper	Epinephelus morio	2014	0.00	INDIVIDUAL	17	e
Scalloped hammerhead shark	Sphyrna lewini	2014	681.70	POUND	11.3	
Sheepshead	Archosargus probatocephalus	2014	178.50	INDIVIDUAL	14.3	
Southern kingfish	Menticirrhus americanus	2014	13.40	INDIVIDUAL	17	
Southern stingray	Dasyatis americana	2014	1,561.70	INDIVIDUAL	5.4	
Spanish mackerel	Scomberomorus maculatus	2014	2,062.40	POUND	3.1	
Spiny dogfish	Squalus acanthias	2014	60.00	POUND	17	
Spot	Leiostomus xanthurus	2014	133.90	INDIVIDUAL	15.4	
Summer flounder	Paralichthys dentatus	2014	182.90	INDIVIDUAL	5.9	
Weakfish	Cynoscion regalis	2014	44.60	INDIVIDUAL	10.4	
Yellowfin menhaden	Brevoortia smithi	2014	312.30	INDIVIDUAL	12.6	

TOTAL FISHERY BYCATCH

21,140.90 INDIVIDUAL

TOTAL FISHERY BYCATCH

84,976.10 POUND

TOTAL FISHERY LANDINGS

17,806,047.00 POUND

FISHERY BYCATCH RATIO (Bycatch/Total Catch)

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Southeastern Atlantic Coastal Migratory Pelagic Troll

Albacore	Thunnus alalunga	2014	33.97	INDIVIDUAL	16.14	
Amberfishes, banded rudderfish, amberjacks, and yellowtails	Seriola	2014	669.03	INDIVIDUAL	11.79	
Atlantic bonito	Sarda sarda	2014	35.67	INDIVIDUAL	14.98	
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	286.55	INDIVIDUAL	9.29	
Banded rudderfish	Seriola zonata	2014	80.26	INDIVIDUAL	21.21	
Barracudas	Sphyraenidae	2014	261.58	INDIVIDUAL	11.65	

Black grouper	Mycteroperca bonaci	2014	582.22	INDIVIDUAL	9.85	
Black sea bass	Centropristis striata	2014	13.38	INDIVIDUAL	21.21	c
Blackfin tuna	Thunnus atlanticus	2014	13.59	INDIVIDUAL	21.21	
Blacktip shark	Carcharhinus limbatus	2014	32.70	INDIVIDUAL	16.46	
Bluefin tuna	Thunnus thynnus	2014	76.69	INDIVIDUAL	15.66	
Bluefish	Pomatomus saltatrix	2014	142.68	INDIVIDUAL	21.21	
Bull shark	Carcharhinus leucas	2014	4.76	INDIVIDUAL	21.21	
Cartilaginous fishes	Chondrichthyes	2014	709.59	INDIVIDUAL	5.95	
Cobia	Rachycentron canadum	2014	1,496.78	INDIVIDUAL	5.58	
Crevalle jack	Caranx hippos	2014	23.78	INDIVIDUAL	21.21	
Dolphinfish	Coryphaena	2014	6,367.16	INDIVIDUAL	5.7	
Gag	Mycteroperca microlepis	2014	714.60	INDIVIDUAL	9.12	j
Gray triggerfish	Balistes capriscus	2014	832.31	INDIVIDUAL	21.21	a
Greater amberjack	Seriola dumerili	2014	716.75	INDIVIDUAL	7.51	m
Hammerhead sharks	Sphyrnidae	2014	45.69	INDIVIDUAL	11.56	
Little tunny	Euthynnus alletteratus	2014	1,761.98	INDIVIDUAL	6	
Mackerels	Scomberomorus	2014	12,225.68	INDIVIDUAL	1.75	
Mako sharks	Isurus	2014	20.38	INDIVIDUAL	15.28	
Mutton snapper	Lutjanus analis	2014	69.56	INDIVIDUAL	15.38	g
Red grouper	Epinephelus morio	2014	142.68	INDIVIDUAL	21.21	e
Red snapper	Lutjanus campechanus	2014	2,952.84	INDIVIDUAL	3.91	h
Remora	Remora	2014	640.55	INDIVIDUAL	4.98	
Sailfish	Istiophorus platypterus	2014	124.85	INDIVIDUAL	11.51	
Spanish mackerel	Scomberomorus maculatus	2014	739.57	INDIVIDUAL	12.52	
Vermilion snapper	Rhomboplites aurorubens	2014	64.21	INDIVIDUAL	21.21	l
Wahoo	Acanthocybium solandri	2014	23.78	INDIVIDUAL	14.98	
Yellowfin tuna	Thunnus albacares	2014	507.13	INDIVIDUAL	6.92	
TOTAL FISHERY BYCATCH			32,412.95	INDIVIDUAL		
TOTAL FISHERY LANDINGS			477,863.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			**			
Southeastern Atlantic Shrimp Trawl						
Atlantic croaker	Micropogonias undulatus	2014	27,966,677.06	POUND	.1	
Atlantic menhaden	Brevoortia tyrannus	2014	3,036,327.53	POUND	.14	
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	430,593.19	POUND	.16	

Bank sea bass	Centropristis ocyurus	2014	0.00	POUND	0	
Black drum	Pogonias cromis	2014	0.00	POUND	0	
Black sea bass	Centropristis striata	2014	1,656.44	POUND	1	c
Blacktip shark	Carcharhinus limbatus	2014	0.00	POUND	0	
Blue crab	Callinectes sapidus	2014	656,845.42	POUND	.15	
Bluefish	Pomatomus saltatrix	2014	299,476.47	POUND	.22	
Bonnethead shark	Sphyrna tiburo	2014	533,059.78	POUND	.29	
Box jellyfish	Carybdeidae	2014	368,063.77	POUND	.29	
Cannonball jellyfish	Stomolophus meleagris	2014	2,821,832.40	POUND	.19	
Cobia	Rachycentron canadum	2014	0.00	POUND	0	
Finetooth shark	Carcharhinus isodon	2014	0.00	POUND	0	
Finfishes (unclassified, general)		2014	10,602,820.84	POUND	.08	
Florida pompano	Trachinotus carolinus	2014	5,364.45	POUND	.68	
Gag	Mycteroperca microlepis	2014	0.00	POUND	0	j
Grouped sharks - Gulf of Mexico		2014	23,100.13	POUND	.72	
Invertebrates (unidentified)		2014	1,295,279.57	POUND	.1	
King mackerel	Scomberomorus cavalla	2014	55,300.66	POUND	.4	
Miscellaneous crustaceans (unidentified)	Crustacea	2014	795,619.62	POUND	.09	
Northern kingfish	Menticirrhus saxatilis	2014	446,915.77	POUND	.33	
Penaeid shrimps	Penaeidae	2014	321,893.67	POUND	.26	
Red drum	Sciaenops ocellatus	2014	0.00	POUND	0	
River herrings	Alosa	2014	0.00	POUND	0	
Rock sea bass	Centropristis philadelphica	2014	28,973.82	POUND	.43	
Scalloped hammerhead shark	Sphyrna lewini	2014	78,983.12	POUND	.65	
Scup	Stenotomus chrysops	2014	968.15	POUND	.48	
Seatrout and weakfish - Gulf of Mexico	Cynoscion	2014	3,023,919.52	POUND	.16	
Silky shark	Carcharhinus falciformis	2014	0.00	POUND	0	
Silver seatrout	Cynoscion nothus	2014	352,580.53	POUND	.31	
Smooth dogfish	Mustelus canis	2014	0.00	POUND	0	
Southern flounder	Paralichthys lethostigma	2014	139,706.05	POUND	.21	
Southern kingfish	Menticirrhus americanus	2014	1,598,828.74	POUND	.16	
Spanish mackerel	Scomberomorus maculatus	2014	250,317.56	POUND	.23	
Spinner shark	Carcharhinus brevipinna	2014	0.00	POUND	0	
Spot	Leiostomus xanthurus	2014	9,936,147.07	POUND	.07	

Spotted seatrout	Cynoscion nebulosus	2014	17,039.94	POUND	.85
Star drum	Stellifer lanceolatus	2014	7,564,196.83	POUND	.17
Sturgeons	Acipenser	2014	0.00	POUND	0
Summer flounder	Paralichthys dentatus	2014	178,619.44	POUND	.19
Weakfish	Cynoscion regalis	2014	7,269,354.42	POUND	.19
TOTAL FISHERY BYCATCH			80,100,461.96	POUND	
TOTAL FISHERY LANDINGS			16,156,927.00	POUND	
TOTAL CATCH (Bycatch + Landings)			96,257,388.96	POUND	
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.83		

Southeastern Atlantic Snapper-Grouper Bottom Longline

Amberfishes, banded rudderfish, amberjacks, and yellowtails	Seriola	2014	0.94	INDIVIDUAL	8.43	
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	4,444.52	INDIVIDUAL	6.13	
Barracudas	Sphyrnaeidae	2014	7.91	INDIVIDUAL	8.43	
Blacktip shark	Carcharhinus limbatus	2014	660.12	INDIVIDUAL	5.67	
Bull shark	Carcharhinus leucas	2014	52.75	INDIVIDUAL	8.43	
Dogfish sharks	Squalidae	2014	2,278.34	INDIVIDUAL	3.15	
Dolphinfish	Coryphaena	2014	62.32	INDIVIDUAL	4.4	
Greater amberjack	Seriola dumerili	2014	35.23	INDIVIDUAL	6.72	m
Hakes	Urophycis	2014	337.91	INDIVIDUAL	2.81	
Hammerhead sharks	Sphyrnidae	2014	141.67	INDIVIDUAL	4.76	
Night shark	Carcharhinus signatus	2014	11.44	INDIVIDUAL	7.36	
Nurse shark	Ginglymostoma cirratum	2014	52.75	INDIVIDUAL	8.43	
Rays, sawfish, and skates	Rajiformes	2014	4.75	INDIVIDUAL	8.43	
Red grouper	Epinephelus morio	2014	577.44	INDIVIDUAL	6.24	e
Red porgy	Pagrus pagrus	2014	328.52	INDIVIDUAL	4.7	k
Red snapper	Lutjanus campechanus	2014	469.91	INDIVIDUAL	4.88	h
Remora	Remora	2014	3,297.12	INDIVIDUAL	6.04	
Sandbar shark	Carcharhinus plumbeus	2014	939.97	INDIVIDUAL	4.05	
Scalloped hammerhead shark	Sphyrna lewini	2014	189.50	INDIVIDUAL	4.55	
Silky shark	Carcharhinus falciformis	2014	10.55	INDIVIDUAL	8.43	
Skates	Rajidae	2014	200.99	INDIVIDUAL	4.8	
Smooth dogfish	Mustelus canis	2014	257.18	INDIVIDUAL	8.43	
Snowy grouper	Epinephelus niveatus	2014	1,201.81	INDIVIDUAL	2.47	f
Spinner shark	Carcharhinus brevipinna	2014	395.65	INDIVIDUAL	8.43	

Spiny dogfish	Squalus acanthias	2014	180.40	INDIVIDUAL	5.29
Tiger shark	Galeocerdo cuvier	2014	126.35	INDIVIDUAL	5.29
Tilefish	Lopholatilus chamaeleonticeps	2014	125.02	INDIVIDUAL	2.82
White shark	Carcharodon carcharias	2014	3.94	INDIVIDUAL	5.14
TOTAL FISHERY BYCATCH			16,395.00	INDIVIDUAL	
TOTAL FISHERY LANDINGS			744,350.00	POUND	
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			**		

Southeastern Atlantic Snapper-Grouper Vertical Line

Almaco jack	Seriola rivoliana	2014	9,728.34	INDIVIDUAL	7.51	
Amberfishes, banded rudderfish, amberjacks, and yellowtails	Seriola	2014	22,947.26	INDIVIDUAL	5.18	
Atlantic bonito	Sarda sarda	2014	244.46	INDIVIDUAL	31.91	
Atlantic needlefish	Strongylura marina	2014	577.40	INDIVIDUAL	13.03	
Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	11,154.24	INDIVIDUAL	7.67	
Banded rudderfish	Seriola zonata	2014	628.16	INDIVIDUAL	12.47	
Bank sea bass	Centropristis ocyurus	2014	595.82	INDIVIDUAL	14.6	
Bar jack	Carangoides ruber	2014	35.13	INDIVIDUAL	32.84	
Barracudas	Sphyraenidae	2014	697.69	INDIVIDUAL	9.94	
Black grouper	Mycteroperca bonaci	2014	2,247.81	INDIVIDUAL	8.01	
Black sea bass	Centropristis striata	2014	26,408.00	INDIVIDUAL	.52	c
Blackfin tuna	Thunnus atlanticus	2014	211.80	INDIVIDUAL	24.61	
Blacknose shark	Carcharhinus acronotus	2014	11.64	INDIVIDUAL	45.14	
Blacktip shark	Carcharhinus limbatus	2014	615.77	INDIVIDUAL	15.77	
Blowfish	Tetraodontidae	2014	20.95	INDIVIDUAL	45.14	
Blue marlin	Makaira nigricans	2014	4.66	INDIVIDUAL	45.14	
Blue runner	Caranx crysos	2014	779.17	INDIVIDUAL	22.19	
Bluefish	Pomatomus saltatrix	2014	115.25	INDIVIDUAL	38.91	
Blueline tilefish	Caulolatilus microps	2014	472.00	INDIVIDUAL	.5	b
Bonnethead shark	Sphyrna tiburo	2014	1,396.93	INDIVIDUAL	9.76	
Bony fishes	Osteichthyes	2014	495.80	INDIVIDUAL	34.57	
Breams and porgies	Sparidae	2014	39.91	INDIVIDUAL	45.14	
Bull shark	Carcharhinus leucas	2014	530.16	INDIVIDUAL	15.9	
Butterflyfishes	Chaetodontidae	2014	10.48	INDIVIDUAL	45.14	
Cartilaginous fishes	Chondrichthyes	2014	8,012.91	INDIVIDUAL	8.63	
Cobia	Rachycentron canadum	2014	1,312.10	INDIVIDUAL	9.24	

Crevalle jack	Caranx hippos	2014	261.93	INDIVIDUAL	20.17	
Dasyatidae	Dasyatidae	2014	4.37	INDIVIDUAL	45.14	
Dealfish	Trachipterus arcticus	2014	69.85	INDIVIDUAL	45.14	
Dogfish sharks	Squalidae	2014	1,096.33	INDIVIDUAL	32.57	
Dolphinfish	Coryphaena	2014	2,867.22	INDIVIDUAL	17.98	
Dusky shark	Carcharhinus obscurus	2014	3.88	INDIVIDUAL	45.14	
Gag	Mycteroperca microlepis	2014	24,888.81	INDIVIDUAL	4.47	j
Goliath grouper	Epinephelus itajara	2014	1,271.00	INDIVIDUAL	16.89	
Gray snapper	Lutjanus griseus	2014	16,085.70	INDIVIDUAL	9.56	i
Gray triggerfish	Balistes capriscus	2014	14,717.00	INDIVIDUAL	9.84	a
Graysby	Cephalopholis cruentata	2014	16.37	INDIVIDUAL	45.14	
Greater amberjack	Seriola dumerili	2014	4,117.46	INDIVIDUAL	5.72	m
Groupers and sea basses	Serranidae	2014	866.44	INDIVIDUAL	18.34	
Grunts	Haemulidae	2014	1,166.79	INDIVIDUAL	15.99	
Hammerhead sharks	Sphyrnidae	2014	96.59	INDIVIDUAL	18.05	
Hogfish	Lachnolaimus maximus	2014	209.54	INDIVIDUAL	45.14	
Jacks and pompanos	Carangidae	2014	984.45	INDIVIDUAL	14.17	
Jolthead porgy	Calamus bajonado	2014	11.79	INDIVIDUAL	45.14	
Lane snapper	Lutjanus synagris	2014	1,090.77	INDIVIDUAL	13.09	
Lemon shark	Negaprion brevirostris	2014	4.03	INDIVIDUAL	45.14	
Lesser amberjack	Seriola fasciata	2014	33.09	INDIVIDUAL	45.14	
Lionfishes	Pterois	2014	60.51	INDIVIDUAL	16.65	
Little tunny	Euthynnus alletteratus	2014	1,761.53	INDIVIDUAL	9.33	
Mackerels	Scomberomorus	2014	5,555.18	INDIVIDUAL	7.18	
Moray eels	Muraenidae	2014	69.56	INDIVIDUAL	31.24	
Mutton snapper	Lutjanus analis	2014	2,564.00	INDIVIDUAL	.68	g
Nurse shark	Ginglymostoma cirratum	2014	696.53	INDIVIDUAL	13.22	
Parrotfishes	Scaridae	2014	167.63	INDIVIDUAL	45.14	
Pilotfish	Naucrates ductor	2014	1,067.35	INDIVIDUAL	11.62	
Porkfish	Anisotremus virginicus	2014	20.95	INDIVIDUAL	45.14	
Rainbow runner	Elagatis bipinnulata	2014	11.97	INDIVIDUAL	45.14	
Rays, sawfish, and skates	Rajiformes	2014	4.66	INDIVIDUAL	31.91	
Red drum	Sciaenops ocellatus	2014	26.19	INDIVIDUAL	45.14	
Red grouper	Epinephelus morio	2014	10,938.00	INDIVIDUAL	13.26	e

Red hind	<i>Epinephelus guttatus</i>	2014	4.37	INDIVIDUAL	45.14	
Red porgy	<i>Pagrus pagrus</i>	2014	20,039.00	INDIVIDUAL	3.16	k
Red snapper	<i>Lutjanus campechanus</i>	2014	43,913.00	INDIVIDUAL	.12	h
Reef shark	<i>Carcharhinus perezii</i>	2014	68.10	INDIVIDUAL	32.75	
Remora	<i>Remora</i>	2014	1,076.23	INDIVIDUAL	10.72	
Rock sea bass	<i>Centropristis philadelphica</i>	2014	17.46	INDIVIDUAL	45.14	
Sailfish	<i>Istiophorus platypterus</i>	2014	172.77	INDIVIDUAL	22.46	
Sand perch	<i>Diplectrum formosum</i>	2014	519.61	INDIVIDUAL	13.47	
Sand tiger shark	<i>Carcharias taurus</i>	2014	435.16	INDIVIDUAL	15.12	
Sand tilefish	<i>Malacanthus plumieri</i>	2014	324.12	INDIVIDUAL	15.67	
Sandbar shark	<i>Carcharhinus plumbeus</i>	2014	877.31	INDIVIDUAL	13.7	
Scamp	<i>Mycteroperca phenax</i>	2014	2,421.11	INDIVIDUAL	4.79	
Schoolmaster	<i>Lutjanus apodus</i>	2014	27.94	INDIVIDUAL	45.14	
Scomber	<i>Scomber</i>	2014	23.28	INDIVIDUAL	45.14	
Scorpionfishes	Scorpaenidae	2014	1.55	INDIVIDUAL	45.14	
Sea catfishes	Ariidae	2014	633.28	INDIVIDUAL	14.57	
Sea chubs	Kyphosidae	2014	145.86	INDIVIDUAL	32.27	
Sheepshead	<i>Archosargus probatocephalus</i>	2014	24.95	INDIVIDUAL	45.14	
Silk snapper	<i>Lutjanus vivanus</i>	2014	3.88	INDIVIDUAL	45.14	
Silky shark	<i>Carcharhinus falciformis</i>	2014	828.07	INDIVIDUAL	18.69	
Skates	Rajidae	2014	4.73	INDIVIDUAL	34.2	
Smooth dogfish	<i>Mustelus canis</i>	2014	182.21	INDIVIDUAL	17.79	
Snappers	Lutjanidae	2014	204.12	INDIVIDUAL	22.01	
Snowy grouper	<i>Epinephelus niveatus</i>	2014	533.33	INDIVIDUAL	24.81	f
Soliderfishes and squirrelfishes	Holocentridae	2014	44.24	INDIVIDUAL	36.88	
Spanish mackerel	<i>Scomberomorus maculatus</i>	2014	5,194.10	INDIVIDUAL	11.74	
Speckled hind	<i>Epinephelus drummondhayi</i>	2014	285.48	INDIVIDUAL	20.62	d
Spinner shark	<i>Carcharhinus brevipinna</i>	2014	20.95	INDIVIDUAL	45.14	
Spottail pinfish	<i>Diplodus holbrookii</i>	2014	1,287.03	INDIVIDUAL	11.23	
Tiger shark	<i>Galeocerdo cuvier</i>	2014	696.42	INDIVIDUAL	10.48	
Tilefish	<i>Lopholatilus chamaeleonticeps</i>	2014	140.69	INDIVIDUAL	40.62	
Toad fishes	Batrachoididae	2014	1,441.95	INDIVIDUAL	9.66	
Tomtate	<i>Haemulon aurolineatum</i>	2014	5,636.27	INDIVIDUAL	8.43	
Triggerfishes	Balistidae	2014	26,123.54	INDIVIDUAL	5.05	

Vermilion snapper	Rhomboplites aurorubens	2014	71,275.06	INDIVIDUAL	5.3	I
Wahoo	Acanthocybium solandri	2014	8.38	INDIVIDUAL	45.14	
Warsaw grouper	Epinephelus nigritus	2014	243.16	INDIVIDUAL	39.04	
Weakfish	Cynoscion regalis	2014	80.32	INDIVIDUAL	33.36	
White grunt	Haemulon plumierii	2014	7,421.80	INDIVIDUAL	11.62	
Yellowedge grouper	Epinephelus flavolimbatus	2014	314.31	INDIVIDUAL	45.14	
Yellowtail snapper	Ocyurus chrysurus	2014	127,892.70	INDIVIDUAL	5.3	

TOTAL FISHERY BYCATCH

502,689.15 INDIVIDUAL

TOTAL FISHERY LANDINGS

3,569,347.00 POUND

FISHERY BYCATCH RATIO (Bycatch/Total Catch)

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Southeastern Atlantic and Gulf of Mexico Shark Bottom Longline [§]

Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	304,127.94	POUND	1.05
Blacknose shark	Carcharhinus acronotus	2014	427,347.76	POUND	1.8
Blacktip shark	Carcharhinus limbatus	2014	30,000.62	POUND	2.26
Bonnethead shark	Sphyrna tiburo	2014	5,676.26	POUND	2.62
Bull shark	Carcharhinus leucas	2014	3,673.64	POUND	4.69
Finetooth shark	Carcharhinus isodon	2014	2,597.23	POUND	4.69
Gafftopsail catfish	Bagre marinus	2014	2,850.14	POUND	2.33
Nurse shark	Ginglymostoma cirratum	2014	27,271.77	POUND	2.76
Red drum	Sciaenops ocellatus	2014	278.63	POUND	4.69
Roughtail stingray	Dasyatis centroura	2014	1,047.34	POUND	4.69
Sand tiger shark	Carcharias taurus	2014	24,369.80	POUND	4.69
Sandbar shark	Carcharhinus plumbeus	2014	70,825.50	POUND	2.41
Scalloped hammerhead shark	Sphyrna lewini	2014	8,106.03	POUND	3.24
Spinner shark	Carcharhinus brevipinna	2014	8,747.94	POUND	2.76
Tiger shark	Galeocerdo cuvier	2014	15,688.88	POUND	2.58

TOTAL FISHERY BYCATCH

932,609.48 POUND

TOTAL FISHERY LANDINGS

1,399,582.00 POUND

TOTAL CATCH (Bycatch + Landings)

2,332,191.48 POUND

FISHERY BYCATCH RATIO (Bycatch/Total Catch)

0.40

Southeastern Atlantic and Gulf of Mexico Shark Bottom Longline

Research Fishery ^{#, ~}

Atlantic sharpnose shark	Rhizoprionodon terraenovae	2014	1,620.50	POUND
Blacknose shark	Carcharhinus acronotus	2014	1,157.60	POUND

Blacktip shark	Carcharhinus limbatus	2014	206.00	POUND	
Dusky shark	Carcharhinus obscurus	2014	11,177.70	POUND	
Goliath grouper	Epinephelus itajara	2014	604.90	POUND	
Great hammerhead	Sphyrna mokarran	2014	1,179.80	POUND	
Mutton snapper	Lutjanus analis	2014	4.60	POUND	g
Nurse shark	Ginglymostoma cirratum	2014	19,273.80	POUND	
Red drum	Sciaenops ocellatus	2014	31.20	POUND	
Red grouper	Epinephelus morio	2014	52.60	POUND	e
Red snapper	Lutjanus campechanus	2014	24.30	POUND	h
Reef shark	Carcharhinus perezi	2014	206.10	POUND	
Sand tiger shark	Carcharias taurus	2014	7,074.80	POUND	
Sandbar shark	Carcharhinus plumbeus	2014	173.90	POUND	
Scalloped hammerhead shark	Sphyrna lewini	2014	1,615.70	POUND	
Silky shark	Carcharhinus falciformis	2014	213.80	POUND	
Spinner shark	Carcharhinus brevipinna	2014	121.50	POUND	
Tiger shark	Galeocerdo cuvier	2014	21,360.80	POUND	
TOTAL FISHERY BYCATCH			66,099.60	POUND	
TOTAL FISHERY LANDINGS			249,206.00	POUND	
TOTAL CATCH (Bycatch + Landings)			315,305.60	POUND	
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.21		

FOOTNOTES

This table does not include the following 35 individual fish recorded as bycatch in this fishery: 1 bluefish ; 1 clearnose skate; 1 gafftopsail catfish; 1 houndshark; 1 rays, sawfish, and skates; 2 requiem sharks ; 1 reticulate moray; 10 roughtail stingrays; 1 scorpionfish; 1 sharks; 1 sharksucker; 4 smalltooth sawfish; 3 southern stingrays; 1 sponge (unidentified); 3 stingrays – South Atlantic/Gulf of Mexico; and 3 toad fishes.

§ These estimates apply to the Shark Bottom Longline Fishery only; they do not include estimates related to the Shark Bottom Longline Research Fishery, which are described in a separate table.

% Fish bycatch estimates in the HMS Pelagic Longline Fishery are for dead discards only.

^ Gulf of Mexico Shrimp Trawl estimates are for the offshore portion of the fishery only (COLREGS line (beach) out to 50 fathoms).

~ The Shark Bottom Longline Research Fishery has 100% observer coverage; therefore, no extrapolation is needed in its bycatch estimates.

a For the GOM Reef Fish Vertical Line Fishery, the estimate is a weighted mean of discards for years 2011-13 (see SEDAR 43); the CV is the midpoint of the 1.58-3.85 range among strata. For SATL Snapper-Grouper Vertical Line Fishery, SEDAR 41 see data workshop report for more information; the CV is the midpoint of the 7.71-11.97 range among strata. For the GOM Reef Fish Bottom Longline Fishery, the estimate is a weighted mean of discards for years 2011-13 (see SEDAR 43); the CV is the midpoint of the 2.94-16.34 range among strata.

b See SEDAR 50 data workshop report for more information.

- c For the SATL Snapper-Grouper Vertical Line Fishery, see SEDAR 56 assessment report for more information.
- d For the GOM Reef Fish Vertical Line Fishery, see the SEDAR 49 data workshop report for more information. For the GOM Reef Fish Bottom Longline Fishery, the SEDAR 49 data workshop report for more information; the CV is the midpoint of the 2.8-3.0 range among strata.
- e For the GOM Reef Fish Vertical Line Fishery, the estimate is a weighted mean of discards for years 2011-13 (see SEDAR 420; the CV is the midpoint of the 0.64-5.45 range among strata. For the SATL Snapper-Grouper Vertical Line Fishery, see the SEDAR 53 data workshop report for more information; the CV is the midpoint of the 1.41-25.10 range among strata. For the GOM Reef Fish Bottom Longline Fishery, the estimate is a weighted mean of discards for years 2011-13 (see SEDAR 42); the CV is the midpoint of the 0.57-1.79 range among strata.
- f For the GOM Reef Fish Vertical Line Fishery, see SEDAR 49 data workshop report for additional information. For the GOM Reef Fish Bottom Longline Fishery, see the SEDAR 49 data workshop report for more information; the CV is the midpoint of the 1.41-4.9 range among strata.
- g For the GOM Reef Fish Vertical Line Fishery, the estimate is a weighted mean of discards for years 2010-12 (see SEDAR 15 update for 2015); estimate total includes Gulf of Mexico and South Atlantic; the CV is the midpoint of the 0.62-0.74 range among years.
- h For the GOM Reef Fish Vertical Line Fishery, the estimate is a weighted mean of discards for years 2011-13 (see SEDAR 31 2014 update); the CV is the midpoint of the 1.98-8.95 range among strata. For the GOM Reef Fish Bottom Longline Fishery, the estimate is a weighted mean of discards for years 2011-13 (see SEDAR 31 2014 update); the CV is the midpoint of the 1.21-10.54 range among strata.
- i For the GOM Reef Fish Vertical Line Fishery and GOM Reef Fish Bottom Longline Fishery, see SEDAR 51 data workshop report for more information.
- j For the GOM Reef Fish Vertical Line Fishery, see the SEDAR GOM 2016 assessment update for more information; the CV is the midpoint of the 3.51-6.29 range among strata. For the GOM Reef Fish Bottom Longline Fishery, see SEDAR GOM 2016 assessment update for more information.
- k For the SATL Snapper-Grouper Vertical Line Fishery, the estimate is a weighted mean of discards for years 2009-11 (see SEDAR update 2012); the CV is the midpoint of the 1.72-4.59 range among strata.
- l For the GOM Reef Fish Vertical Line Fishery, see SEDAR 45 data workshop report for more information; the CV is the midpoint of the 1.41-2.35 range among strata. For the GOM Reef Fish Bottom Longline Fishery, see SEDAR 45 data workshop report for more information.
- m For the GOM Reef Fish Vertical Line Fishery, see SEDAR GOM 2016 assessment update for more information; the CV is the midpoint of the 2.68-3.3 range among strata. For the GOM Reef Fish Bottom Longline Fishery, see SEDAR GOM 2016 assessment update for more information; the CV is the midpoint of the 1.13-1.73 range among strata.