

Final List of Foreign Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Antigua and Barbuda											
Exempt Fisheries											
lobster, rock, spiny, demersal fish (snappers, groupers, grunts, surgeonfish), flounder	pots, traps	74	Lewis Fishing	not applicable	Antigua & Barbuda EEZ	none documented	none documented	A/G		http://www.fao.org/oldsite/FCP/en/ATG/body.htm http://www.fao.org/docrep/006/y5402e/y5402e06.htm , http://www.tradeboss.com/default.cgi/action/viewcompanies/searchterm/spiny+lobster/searchtermcondition/1/ , ftp://ftp.fao.org/fi/DOCUMENT/POAS/national/AntiguaAndBarbuda/NPOA_IUU.pdf	U.S. LoF Caribbean spiny lobster trap/ pot >197 None documented, Caribbean mixed species trap/pot are category III
lobster, rock, spiny	free diving, loops	19	Lewis Fishing	not applicable	Antigua & Barbuda EEZ	none documented	none documented	A/G		http://www.nmfs.noaa.gov/pr/interactions/fisheries/table2/Atlantic_GOM_Caribbean_shellfish.html	
Queen conch (Strombus gigas), molluscs	Dive (SCUBA & free diving)	25	not applicable	not applicable	Antigua & Barbuda EEZ	none documented	none documented	A/G	U.S. trade data		
snapper	handline, hook and line	71	Lewis Fishing	not applicable	Antigua & Barbuda EEZ	none documented	none documented	N/I, A/G	U.S. trade data		Southeastern U.S. Atlantic, Gulf of Mexico, and Caribbean snapper-grouper and other reef fish bottom longline/hook-and-line/ >5,000 vessels/ Bottlenose dolphin, GMX continental shelf
Off-shore pelagic spp. (tunas, dolphinfish, wahoo, etc.)	Drop line	6	not applicable	not applicable	Antigua & Barbuda EEZ	none documented	none documented	N/I, A/G	U.S. trade data		
Coastal pelagic spp. (southern sennets, jacks, mullets, herrings, etc.)	Beach seine	1	not applicable	not applicable	Antigua & Barbuda EEZ	none documented	none documented	N/I, A/G	Special permit required (Sec. 54 of Fisheries Regulations 2013); Maximum net length 450 ft. (Sec. 56.(1)(a) of Fisheries Regulation 2013); Maximum set time (soak time) 4 hours (Sec. 56.(5) of Fisheries Regulation 2013)	U.S. trade data	Regulations made mainly to protect marine turtles have the added benefit of protecting marine mammals. Trawl nets, multi-panel nets, and multifilament nets are banned in Antigua and Barbuda waters (Sec. 56.(1) (g) to (i) of Fisheries Regulation 2013). Large driftnet fishing is banned in Antigua and Barbuda waters and no foreign or local fishing vessel which engages in any large driftnet fishing activities shall be permitted to transship, land or process any fish or have access to ports and port facilities in Antigua and Barbuda waters (Sec. 57 of Fisheries Act 2006).
Coastal pelagic spp. (herrings, ballyhoo, etc.)	Bait net	1	not applicable	not applicable	Antigua & Barbuda EEZ	none documented	none documented	N/I, A/G	Maximum net length 60 ft. per vessel (Sec. 56.(3) of Fisheries Regulation 2013); Maximum set time (soak time) 4 hours (Sec. 56.(5) of Fisheries Regulation 2014)	U.S. trade data	Regulations made mainly to protect marine turtles have the added benefit of protecting marine mammals. Trawl nets, multi-panel nets, and multifilament nets are banned in Antigua and Barbuda waters (Sec. 56.(1) (g) to (i) of Fisheries Regulation 2013). Large driftnet fishing is banned in Antigua and Barbuda waters and no foreign or local fishing vessel which engages in any large driftnet fishing activities shall be permitted to transship, land or process any fish or have access to ports and port facilities in Antigua and Barbuda waters (Sec. 57 of Fisheries Act 2006).
Export Fisheries											
Demersal spp. (grunts, parrotfish, surgeonfish, etc.) & coastal pelagic spp. (jacks)	gillnet	33	not applicable	not applicable	Antigua & Barbuda EEZ	Marine mammals susceptible to gillnet gear in coastal waters of the Caribbean: tucuxi, pygmy sperm whale, Risso's dolphin, bottlenose dolphin, Atlantic spotted dolphin, killer whale, Clymene dolphin, spinner dolphin, humpback whale	none documented	A/G, C/O	Maximum net length 1800 ft. per vessel (Sec. 56.(1)(c) of Fisheries Regulation 2013); Maximum set time (soak time) 4 hours (Sec. 56.(5) of Fisheries Regulation 2013)	- source: NOAA Cetacean Bycatch Tech Memo	Regulations made mainly to protect marine turtles have the added benefit of protecting marine mammals. Trawl nets, multi-panel nets, and multifilament nets are banned in Antigua and Barbuda waters (Sec. 56.(1) (g) to (i) of Fisheries Regulation 2013). Large driftnet fishing is banned in Antigua and Barbuda waters and no foreign or local fishing vessel which engages in any large driftnet fishing activities shall be permitted to transship, land or process any fish or have access to ports and port facilities in Antigua and Barbuda waters (Sec. 57 of Fisheries Act 2006).
Argentina											
Exempt Fisheries											
"Patagonian blenny"/"rock cod" (E. maclovinus)	handline	none provided	not applicable	not applicable	deepwater coastal area	Commerson's dolphin, spectacled porpoise, Peale's dolphin, Burmeister's porpoise, South American sea lion	Commerson's dolphin, Peale's dolphin	none provided	A/G	NEAQ Master Table_170410	
pink cuskeel	handline	none provided	not applicable	not applicable	Coastal areas	Commerson's dolphin, Peale's dolphin	none provided	A/G		NEAQ Master Table_170410	
yellowtail/amberjack	handline	none provided	not applicable	not applicable	Coastal areas	none provided	none provided	A/G		NEAQ Master Table_170410	

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Argentine goatfish	handline	none provided	not applicable	not applicable	Coastal areas off the province of Buenos Aires	none provided	none provided	A/G		NEAQ Master Table_170410	
Argentine short fin squid	jig	63	not applicable	not applicable	Rio Negro province	none documented	none documented	A/G		Argentina-provided	incidental catch in deep water bottom trawl fisheries targeting other species
Argentine short fin squid	jig	63	not applicable	not applicable	Chubut province	none documented	none documented	A/G		Argentina-provided	
Argentine short fin squid	jig	63	not applicable	not applicable	Santa Cruz province	none documented	none documented	A/G		Argentina-provided	
octopus	handline	none provided	not applicable	not applicable	Coastal areas	none provided	none provided	A/G		NEAQ Master Table_170410	
trout	aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
seaweed	hand collection	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
toothfish	trawl, bottom	4 freezer vessels	not applicable	not applicable	annual fishery; EEZ, off the coast of Tierra del Fuego and Isla de los Estados and off the province of Buenos Aires	none documented	none documented	C/O, A/G	CCAMLR, Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan) and CCAMLR measures	Argentina-provided	onboard observer program
toothfish	longline	1	not applicable	not applicable	CCAMLR Subarea 88.1 and 88.2	none documented	none documented	C/O, A/G	CCAMLR, Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan) and CCAMLR measures	U.S. trade data	Fishery not active since 2010, On-board observer program, Low frequency of bycatch observed (POB data 2003-2012).
Export Fisheries											
toothfish	longline	1	not applicable	not applicable	annual fishery; EEZ, off the coast of Tierra del Fuego and Isla de los Estados and off the province of Buenos Aires	On Board observers program (POB) data (2003-2012) reported interactions with killer whale and sperm whale. The interactions were mainly individuals observed near the boat and hook depredation.	Low frequency of bycatch observed (POB data 2003-2012).	C/O, A/G	CCAMLR, Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan) and CCAMLR measures	Argentina-provided	all vessels voluntarily employ cachaloteras to mitigate hook depredation, onboard observer program
Argentine hake, squid, cuttlefish, blackbelly rosefish, southern hake	trawl, bottom	35 coastal vessels, 183 freezer vessels, 96 refrigerated high-seas vessels	not applicable	not applicable	annual fishery; provinces of Chubut, Santa Cruz, and Rio Negro	Documented in the Northern and Central Patagonian Coast: Common dolphin, Dusky dolphin, Commerson's dolphin, Peale's dolphin, Commerso's dolphin, and spectacled porpoise, South American Sea lion, Fur seal	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided, NEAQ Master Table_170410, Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic, Young and Iudicello, http://www.nmfs.noaa.gov/pr/pdfs/interactions/cetacean_bycatch_techmemo.pdf , Seco Pon et al 2013	Marine mammal information added from NEAQ, sea lion bycatch more likely during day hauling
Mackerel (chub, jack, horse)	purse seine	none provided	not applicable	not applicable	Coastal areas	Dusky dolphin, common dolphin, Bottlenose dolphin, South American sea lion, Franciscana dolphin	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410, Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	report by Seco Pon et al. "Seabird and marine mammal in the chub mackerel ps fishery" indicates high prevalence of marine mammals in the area near to where vessels operate but no bycatch of marine mammals in this fishery - no documented bycatch Seco Pon et al 2012, https://doi.org/10.1016/j.occoaman.2012.04.017
Chub mackerel	trawl, midwater	none provided	not applicable	not applicable	Coastal areas	Dusky dolphin, common dolphin, Bottlenose sea lion	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410	
Mackerel (chub, jack)	trawl, bottom	none provided	not applicable	not applicable	Coastal areas	none provided	none provided	C/O, A/G		NEAQ Master Table_170410	

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Patagonian grenadier	trawl, bottom	31	not applicable	not applicable	EEZ, Chubut, Santa Cruz, and Rio Negro provinces	common dolphin	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410, Cetacean Bycatch Appendix, Goodall and Cameron 1980, Goodall et al. 1988, 1994, Crespo et al. 1994	MSC Certified, on-board observer program
pink cuskeel	trawl, bottom	none provided	not applicable	not applicable	Coastal areas, EEZ, and Buenos Aires province	Commerson's dolphin, Peale's dolphin, common dolphin	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410, Cetacean Bycatch Appendix	
pink cuskeel	trawl, midwater	none provided	not applicable	not applicable	Coastal areas, EEZ	Commerson's dolphin, Peale's dolphin, common dolphin	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410, Cetacean Bycatch Appendix	
pink cuskeel	longline	none provided	not applicable	not applicable	Coastal areas, EEZ	Commerson's dolphin, Peale's dolphin, South American sea lion, Southern fur seal, sperm whale, orca whale, dusky dolphin	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410, in "Aquatic mammals in Latin America: Proceedings of a workshop on identifying high-priority conservation needs and actions," and Cetacean Bycatch Appendix	directed take and intentional injuring or killing of these mammals provoked by the artisanal fisherman due to operational interaction with longline fisheries, There are very few vessels that fish for cuskeel using longline. The fleet is primarily composed of bottom trawl vessels with limited artisanal mid-water trawls.
southern blue whiting	trawl, bottom	16	not applicable	not applicable	EEZ and off the coast of Tierra del Fuego	none documented	none documented	A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided	annual fishery, onboard observer program
demersal coastal fishery (white croaker, flounder spp, Patagonian smoothhound, striped weakfish, butterfish, mullet spp, Argentine sea bass, red porgy, angel shark, blue fish, parona leatherjacket, hairtail, yellowtail/amberjack, Argentine goatfish, silversides, bonito)	trawl, bottom	339	not applicable	not applicable	EEZ off of the provinces of Buenos Aires and Rio Negro	South American sea lion and fur seals	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided, NEAQ Master Table_170410	annual fishery, bycatch of dolphins and sea lion consumed domestically.
demersal coastal fishery (white croaker, flounder spp, Patagonian smoothhound, striped weakfish, butterfish, mullet spp, Argentine sea bass, red porgy, angel shark, blue fish, parona leatherjacket, hairtail, yellowtail/amberjack, Argentine goatfish, silversides, bonito)	trawl, midwater	110	not applicable	not applicable	EEZ off of the provinces of Buenos Aires and Rio Negro	South American sea lion and fur seals	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided, NEAQ Master Table_170410	annual fishery, bycatch of dolphins and sea lion consumed domestically.
demersal coastal fishery (white croaker, flounder spp, Patagonian smoothhound, striped weakfish, butterfish, mullet spp, Argentine sea bass, red porgy, angel shark, blue fish, parona leatherjacket, hairtail, yellowtail/amberjack, Argentine goatfish, silversides, bonito)	purse seine/lampara net	8	not applicable	not applicable	EEZ off of the provinces of Buenos Aires and Rio Negro	none documented	none documented	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided	

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demersal coastal fishery (white croaker, flounder spp, Patagonian smoothhound, striped weakfish, butterflyfish, mullet spp, Argentine sea bass, red porgy, angel shark, blue fish, parona leatherjacket, hairtail, yellowtail/amberjack, Argentine goatfish, silversides, bonito)	gillnet	31	not applicable	not applicable	EEZ off of the provinces of Buenos Aires and Rio Negro	common dolphin, Franciscana dolphin, Burmeister's porpoise, South American sea lion and Fur seals	1 common dolphin, 92 Franciscana dolphin, 500-800/yr. (National Action Plan)	P, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided, NEAQ Master Table_170410, IWC 2011, "Bycatch in Argentina gillnets and shrimp nets", Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	bycatch of dolphin and sea lion consumed domestically, 92 Franciscana dolphin caught annually in gillnet fisheries (target fishery not specified)
anchovy	purse seine/lampara net	9	not applicable	not applicable	October and November fishery; EEZ, off of the provinces of Buenos Aires and Chebut	Dusky dolphin, common dolphin, Bottlenose dolphin, South American sea lion, Franciscana dolphin	none documented	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided	artisanal fleet, MSC certified, on-board observer program.
anchovy	trawl, midwater	52 (40 coastal vessels, 12 high seas refrigerated trawls)	not applicable	not applicable	October and November fishery; EEZ, off of the provinces of Buenos Aires and Chebut	Dusky dolphin, common dolphin, bottlenose dolphin, South American sea lion	60+ dusky dolphins in only a few days of fishing, other numbers not provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided, NEAQ Master Table_170410, Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	MSC certified, on-board observer program, interactions with marine mammals predominantly feeding off catches without entanglement and some entanglement as a result of feeding near the gear. Seal bycatch either escaped or were released alive. Cetacean bycatch died. In 1998 and 1999 there were events of marine mammals captured in this trawl fishery. According to the researchers, annual mortality levels would not pose a threat to dolphins if the trawl fishing effort is kept at low levels
king crab	pots, traps	5	not applicable	not applicable	November to May fishery; Chubut and Santa Cruz provinces	none documented	none documented	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided	onboard observer program
Patagonian scallop	trawl, bottom	4	not applicable	not applicable	EEZ in ten management units	none documented	none documented	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided	MSC certified, onboard observer program
Argentine red shrimp	bottom net outrigger	89 freezer vessels, 35 high seas refrigerated vessels, 68 coastal vessels, 42 river and estuarine vessels	not applicable	not applicable	Chubut, Santa Cruz, Rio Negro provinces and EEZ	Documented in the Northern and Central Patagonian coast: Common dolphin, Dusky dolphin, Commerson's dolphin, Peale's dolphin, Commerson's dolphin, and spectacled porpoise, South American Sea lion, Fur seal - present in area	none provided	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	Argentina-provided, Young and Iudicello, http://www.nmfs.noaa.gov/pr/pdfs/interactions/cetacean_bycatch_techmemo.pdf ; Marinao, CJ et al, 2011	sea lion bycatch more likely during night hauling, on-board observer program
Argentine red shrimp	trawl, bottom (artisanal)	15-20	not applicable	not applicable	Coastal areas of Chubut, Santa Cruz, Buenos Aires, and Rio Negro provinces	Franciscana dolphin	15	C/O, A/G	Law n° 25.577 Prohibition of cetaceans hunting in all Argentinean EEZ, Regional Laws of Provinces (see Marine Mammal Action Plan)	NEAQ Master Table_170410, Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic, Young and Iudicello, http://www.nmfs.noaa.gov/pr/pdfs/interactions/cetacean_bycatch_techmemo.pdf ; Marinao, CJ et al, 2011	bycatch of Franciscana dolphins occurred solely in Buenos Aires province Bahia Blanca estuary. Landings of shrimp from this fishery are a fraction insignificant of the landings from the bottom net outrigger fishery. On-board observer program. (Negri et al, 2011)

Australia

Exempt Fisheries

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Tropical rock lobster	hand collection	405	not applicable	not applicable	December 1 to September 30; Commonwealth Fishery: Within boundary of the Torres Strait Protected Zone (TSPZ) and just south of the TSPZ	none documented	none documented	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	comprehensive national legislation that requires reporting of all cetacean interactions.
sea cucumber	hand collection	103	not applicable	not applicable	year-round; Commonwealth Fishery: Within boundary of the Torres Strait Protected Zone (TSPZ) and just south of the TSPZ	none documented	none documented	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	
Spanish mackerel and coral trout	hook and line	207	not applicable	not applicable	year-round; Commonwealth Fishery: north-east region of the Torres Strait	none provided	none provided	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	most of catch from 7 annual permit holders, remainder of vessels are traditional inhabitant boats, area west of 142 degrees, 32 min E is closed to the reef line sector
tuna and billfish (albacore, bigeye, yellowfin, swordfish, marlin)	minor line (handline, trolling, rod and reel)	3	not applicable	not applicable	year-round; Commonwealth Fishery: Cape York to south Australian/Victorian border, Australia EEZ and high seas	(was included with longline fishery but likely fewer mm interactions)	(was included with longline fishery but likely fewer mm interactions)	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	eastern tuna and billfish fishery, Australia lumped longline and minor line fisheries together however, interactions by minor line fishermen likely to be minimal
pearl oyster	hand collection	140	not applicable	not applicable	year-round; Commonwealth Fishery: Within boundary of the Torres Strait Protected Zone (TSPZ) and just south of the TSPZ	none provided	none provided	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	
sea snails (Trochus niloticus)	hand collection	77	not applicable	not applicable	year-round; Commonwealth Fishery: Within boundary of the Torres Strait Protected Zone (TSPZ) and just south of the TSPZ	none provided	none provided	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	significant latent effort in recent years with no catch recorded since 2010
tuna and billfish (bigeye, yellowfin, swordfish, marlin)	minor line (handline, trolling, rod and reel)	1	not applicable	not applicable	year-round; Commonwealth Fishery: Cape York to south Australian/Victorian border, Australia EEZ and high seas	(was included with longline fishery but likely fewer mm interactions)	(was included with longline fishery but likely fewer mm interactions)	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	western tuna and billfish fishery, Australia lumped longline and minor line fisheries together however, interactions by minor line fishermen likely to be minimal
sea cucumber	hand collection	1	not applicable	not applicable	year-round; Commonwealth Fishery: Coral Sea Fishery: Cape York to Sandy Cape	none provided	none provided	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	
scallop	scallop dredge	12	not applicable	not applicable	1 April to 31 December; Commonwealth Fishery: central Bass Strait between Victoria and Tasmania	none documented	none documented	C/O, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	All U.S. scallop dredges are Cat III
southern squid	mechanized squid jig	7	not applicable	not applicable	year-round; Commonwealth Fishery: waters off SA, Victoria, Tasmania, and New South Wales, from 3nm to edge of the Australian Fishing Zone, and Southern Queensland	none documented	none documented	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	
yellowfin bream, mud crab, river eels, dusky flathead, luderick, sea mullet, pipi, eastern king prawn, school prawn, sand whiting (and other spp)	hand collection	588	not applicable	not applicable	year-round; New South Wales Fishery: specific estuaries	none documented	none documented			Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect

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yellowfin bream, mud crab, river eels, dusky flathead, luderick, sea mullet, pipi, eastern king prawn, school prawn, sand whiting (and other spp)	handline	588	not applicable	not applicable	year-round; New South Wales Fishery: specific estuaries	none documented	none documented	A/G		Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
sea urchins and turbin shells	hand collection	37	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	A/G		Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions
blacklip abalone	hand collection	50	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented		Code of Practice for the Abalone Fishery for protected species interactions	Australia Provided: Attachment C, New South Wales Fisheries	mandatory reporting of protected species interactions
abalone	hand collection	66	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented			Australia Provided: Attachment D, South Australian Fisheries	Western, Central, and Southern Zones, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
seaweed/marine algae	winch (beach-based)	1	not applicable	not applicable	South Australia Fishery: beaches from Cape Jaffa and approx. 8km SE of Beachport, excluding exclusion zones	none documented	none documented			Australia Provided: Attachment D, South Australian Fisheries	land-based operation pulling in marine algae from the beach, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
pipi	cockle rake	109	not applicable	not applicable	year-round with spatial and temporal closures for specific species and gear types; South Australia Fishery: Lagoons and coastal marine waters	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, MSC Certified (re-certified 2016)
crustaceans (blue swimmer crab, sand crab, velvet crab)	rake	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
molluscs (southern calamari, cockle, cuttlefish, mussel, octopus, oyster, scallop, Gould's squid)	jig	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
molluscs (southern calamari, cockle, cuttlefish, mussel, octopus, oyster, scallop, Gould's squid)	rake	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
turbo, sea urchin, scallops	hand collection	10	not applicable	not applicable	South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	A/G		Australia Provided: Attachment D, South Australian Fisheries	scuba diving hand collection, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
sea cucumber	hand collection	2	not applicable	not applicable	year-round; Northern Territory Fishery: to 3nm from the coast	none documented	none documented	A/G	Trepang Fishery Code of Practice	Australia Provided: Attachment E, Northern Territory Fisheries	NT maintains a list of 24 marine mammals found in its waters (https://denr.nt.gov.au/land-resource-management/northern-territory-species-checklist/frogs-reptiles-birds-and-mammals-checklist)
demersal fishes, predominantly tropical snappers	handlines	8	not applicable	not applicable	year-round; Northern Territory Fishery: to 15nm from the coast	none documented	none documented	A/G		Australia Provided: Attachment E, Northern Territory Fisheries	logbooks are required, logbooks are required documenting marine mammal interactions
Timor Reef demersal fishes, predominantly tropical snappers	handline	8	not applicable	not applicable	year-round; Northern Territory Fishery: 160km northwest of Darwin	none documented	none documented	A/G		Australia Provided: Attachment E, Northern Territory Fisheries	logbooks are required, logbooks are required documenting marine mammal interactions
Spanish mackerel	handline, trolling	11	not applicable	not applicable	year-round; Northern Territory Fishery: to the outer limit of the Australian Fishing Zone	none documented	none documented	A/G	Code of Practice and Environmental Management System	Australia Provided: Attachment E, Northern Territory Fisheries	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
abalone	hand collection	26	not applicable	not applicable	year-round; Western Australian Fishery: WA state waters	none documented	none documented	A/G	Australia Provided: Attachment F, Western Australian Fisheries	required reporting of marine mammal interactions. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.	
pink snapper, goldband snapper, and other demersal species	line (handline, dropline, troll)	25	not applicable	not applicable	year-round; Western Australian Fishery: Indian Ocean between 23 degrees 7 min 30 sec S and 26 degrees 30 min S	whale unspecified	1 released alive	P, A/G	Australia Provided: Attachment F, Western Australian Fisheries	1 mammal interaction over the 10 years of the fishery, some regions are closed to fishing in this area. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.	
pearl oyster	hand collection	6	not applicable	not applicable	March to September but can be year-round; Western Australian Fishery: 4 zones extending from Exmouth to WA/NT border, most fishing occurs in zone 2	none documented	none documented	A/G	Australia Provided: Attachment F, Western Australian Fisheries	It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.	
shells	hand collection, ROVs	16	not applicable	not applicable	year-round; Western Australian Fishery: state-wide	none documented	none documented	A/G	Australia Provided: Attachment F, Western Australian Fisheries	this fishery utilizes closed areas for fish habitat and reef protection. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.	
coral	aquaculture	2	none provided	not applicable	year-round; Western Australian Fishery: North West of Foale Island, Southern Group, Houtman Abrolhos Islands, south Gun Island, and onshore jetty site at Basille Island	none documented	none documented	N/I	Marine Fauna Interaction Management Plan	Australia Provided: Attachment F, Western Australian Fisheries	It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
Gould's squid	jig	8 (automatic jigs), 4 (hand-held jigs)	not applicable	not applicable	year-round; Tasmanian Fishery: Tasmanian coastal waters	none documented	none documented	A/G	Australia Provided: Attachment G, Tasmanian Fisheries	It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.	
abalone	hand collection	140	not applicable	not applicable	year-round; Tasmanian Fishery: Tasmanian state waters	none documented	none documented	A/G	Australia Provided: Attachment G, Tasmanian Fisheries	It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.	
abalone	hand collection	71 licenses	not applicable	not applicable	year-round; Victorian Fishery: Victorian coastal waters	none documented	none documented	A/G	voluntary code of practice for industry and environment best practices	Australia Provided: Attachment H, Victorian Fisheries	hand collection by divers, closed areas where fishing is not permitted. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
molluscs (southern calamari, cockle, cuttlefish, mussel, octopus, oyster, scallop, Gould's squid)	dredge	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G	Australia Provided: Attachment D, South Australian Fisheries	Australia Provided: Attachment D, South Australian Fisheries	It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
scallop	scallop dredge	6	not applicable	not applicable	June-December; Tasmanian Fishery: Tasmanian waters	none documented	none documented	C/O, A/G	Australia Provided: Attachment G, Tasmanian Fisheries	Australia Provided: Attachment G, Tasmanian Fisheries	mandatory reporting of marine mammal interactions however due to design of the gear and nature of operations no incidents have been recorded or are likely to occur. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
yellowtail kingfish	aquaculture (sea pens)	1	none provided	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	N/I	Marine Fauna Interaction Management Plan	Australia Provided: Attachment C, New South Wales Fisheries	marine fauna interaction management plan in place. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
mussels	aquaculture (lines)	1	none provided	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	N/I	Marine Fauna Interaction Management Plan	Australia Provided: Attachment C, New South Wales Fisheries	marine fauna interaction management plan in place. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
oysters, mussels, abalone	aquaculture (lines, baskets, benthic structures, cages)	335 (oysters), 36 (mussels), 10 (abalone)	none provided	not applicable	South Australia Fishery: Port Lincoln, coastal bays around SA - Coffin Bay, Streaky Bay, Smoky Bay, Ceduna, Cowell, Kangaroo island, Yorke Peninsula	none documented	none documented	N/I	Aquaculture Regulations 2016 to minimize interactions	Australia Provided: Attachment D, South Australian Fisheries	required under Aquaculture Regulations 2016 to have an approved strategy to minimize interactions with seabirds and marine mammals. The strategy must be approved by the minister. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
barramundi	aquaculture (cages)	1	MPA Fish Farms Pty Ltd	not applicable	year-round; Western Australian Fishery: Kimberley Aquaculture Development Zone (N. King Sound)	none documented	none documented	N/I	Kimberley Zone Environmental Monitoring and Management Plan	Australia Provided: Attachment F, Western Australian Fisheries	measures regulating net maintenance and feeding schedules to reduce waste as an attractant. It is an offence under the EPBC Act to kill, injure or take any cetacean in Commonwealth jurisdictional waters. All pinnipeds and dugong are protected in Commonwealth jurisdictional waters as listed marine species under the EPBC Act. Various cetacean and pinniped species and dugong are listed as Specially Protected Fauna in Western Australian jurisdictional waters under the Wildlife Conservation Act.
tuna and billfish (bigeye, yellowfin, swordfish, marlin) dolphinfish	minor line (handline, trolling, rod and reel)	1	not applicable	not applicable	year-round; Commonwealth Fishery: Cape York to south Australian/Victorian border, Australia EEZ and high seas	none documented	none documented	A/G	Australia Provided: Attachment A, Commonwealth Fisheries	Australia Provided: Attachment A, Commonwealth Fisheries	western tuna and billfish fishery, Australia lumped longline and minor line fisheries together however, interactions by minor line fishermen likely to be minimal

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Australian salmon, Australian bonito, dart, luderick, sand whiting, sea mullet, yellowfin bream, Blue mackerel, australian bonito, leaping bonito, oriental bonito, mulloay, daimond fish, frigate mackerel, longtail tuna, silver trevally, spanish mackerel, sweep, tarwhine	hauling net	98	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	C/O	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
eastern sea garfish	garfish net	32	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	C/O	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
Eastern rock lobster	traps	100	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries, Global Assessment of Large Whale Entanglement and Bycatch Reduction in Fixed Fishing Gear progress report	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer programs have previously been in effect in this fishery, head-gear of traps submerged using Galvanic Time releases (GTRs) or acoustic release technology
giant crab	pots	262	not applicable	not applicable	Southern zone: 1 October to 31 May, Northern Zone: 1 November to 31 May; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened, Endangered and Protected Species (TEPS) published annually, limits on the number of pots per fisherman. Time-Area closure: fishing is limited to summer months outside of whale migration time.
icefish	trawl, midwater	1			Subarea 58.5.2 (Heard Is.)	none documented	none documented	C/O, A/G	CCAMLR	Baker et al, 2014; See Non-tuna RFMO_FINAL for citations, details	not currently active, Party to CCAMLR; SPRFMO; CPFLDSP
icefish	trawl, bottom	1			Subarea 58.5.2 (Heard Is.)	none documented	none documented	C/O, A/G	CCAMLR	Australia provided: Attachment A: Commonwealth Fisheries	active
rock lobster	pots	261	not applicable	not applicable	Southern zone: 1 October to 31 May, Northern Zone inner region: 1 November to 31 May with option to extend full year, Northern Zone outer region: year-round; South Australia Fishery: marine waters of SA to 200nm	interaction with unidentified dolphin	1 (2007/08)	P, A/G	SLEDs required in all lobster pots used in less than 100m depth in the Northern Zone	Australia Provided: Attachment D, South Australian Fisheries, Mackay et al, 2015_Operational Interactions with Threatened Endangered or Protected Sp	sea lion excluder devices required in all lobster pots used in less than 100m depth to mitigate interaction, annual reporting of interaction with Threatened, Endangered and Protected Species (TEPS) published annually, National ESD Reporting Framework for Fisheries, limit to number of pots per fisherman. Fishery occurs in summer months and is closed during winter during whale migration.
sardine	purse seine	29	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA, predominantly southern Spencer Gulf	short-beaked common dolphin and dolphins unidentified, unidentified seals	4 (2014/15), 191 (2007-2015), 141 seal interactions (3 dead), 423 common dolphins (IWC reports)	P, A/G	Industry Code of Practice to prevent dolphin interaction	Australia Provided: Attachment D, South Australian Fisheries, Mackay et al, 2015_Operational Interactions with Threatened Endangered or Protected Sp, MSRA Database: SC66a Report_Appendix L_Small Cetaceans, paper: "Multiple management units of short-beaked common dolphins subject to fisheries bycatch off southern and southeastern Australia", IWC 2012, IWC 2015, Marine Policy 2018: Code of Practice	industry code of practice to prevent dolphin interaction, onboard observer program (10% coverage)
toothfish	longline	1			Subarea 58.5.1 (East Antarctica)	none documented	none documented	C/O, A/G	CCAMLR	Clark et al, 2014;	active
toothfish	longline	1			Subareas 88.1-2	none documented	none documented	C/O, A/G	CCAMLR	U.S. trade data	active
Export Fisheries											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
toothfish	longline	4			Subarea 58.5.2 (Heard and McDonald Is.)	Southern elephant seal, Antarctic fur seal, crabeater seal, seals unspecified	2007: 1 elephant seal killed, 2008: 1 elephant seal killed, 2009 2 elephant seals killed, 2012: 1 elephant seal killed, 2 elephant seals released, 2013: 5 elephant seals killed, 2014: 1 fur seal killed, 1 elephant seal killed, 2015: 1 elephant seal killed, 2 unspecified seals killed, 2016: 2 crabeater seal killed, 8 elephant seals killed, 1 unidentified seal killed	P, A/G	CCAMLR	Australia provided: Attachment A: Commonwealth Fisheries	active
toothfish	trawl, bottom	1			Subarea 58.5.2 (Heard Is.)	Antarctic fur seal, seals unspecified	2007: 1 killed, 1 released unspecified seals, 2011: 1 killed unspecified seal, 2010: 1 fur seal released	P, A/G	CCAMLR	U.S. trade data	active
toothfish	pots	1			Subarea 58.5.2 (Heard Is.)	none documented	none documented	C/O, A/G	CCAMLR	U.S. trade data	last active 2013
mud crab (Scylla spp)	pots	102	not applicable	not applicable	July 1 to June 30; Commonwealth Fishery: Within boundary of the Torres Strait Protected Zone (TSPZ) and just south of the TSPZ	none provided	none provided	C/O, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	suspect interactions causing harm or death likely to be zero
banana prawn, tiger prawn, endeavor prawn	bottom (prawn) trawl	52	not applicable	not applicable	1 April to 15 June (banana prawn) and 1 August to 30 November (tiger and endeavor prawn); Commonwealth Fishery: Gulf of Carpentaria (Cape York) and west to Cape Londonderry on the western side of the Joseph Bonaparte Gulf	dolphins unspecified, bottlenose dolphin, common dolphins	5 interactions with 2 mortalities (2012-16), 2, 3	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: SC66a Report_Appendix L_Small Cetaceans, IWC 2012, IWC 2015	
banana prawn, tiger prawn, endeavor prawn	bottom (prawn) trawl	60	not applicable	not applicable	1 February to 1 December; Commonwealth Fishery: Eastern part of the Torres Strait, within boundary of the Torres Strait Protected Zone (TSPZ)	dolphins unspecified	1 interaction, released alive (2012-16)	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	
tuna and billfish (southern bluefin, albacore, bigeye, yellowfin, swordfish, marlin)	longline	37	not applicable	not applicable	year-round; Commonwealth Fishery: Cape York to south Australian/Victorian border, Australia EEZ and high seas	common dolphin, dolphin unspecified, New Zealand fur seal, Australian fur seal, seals unspecified, baleen whale unspecified, melon-headed whale, short-finned pilot whale, long-finned pilot whale, toothed whales unspecified, whales unspecified	26 interactions (2013-16), 1 dead (NZ fur seal), rest released alive	P, A/G	IOTC	Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: IWC 2015, IOTC	eastern tuna and billfish fishery, e-monitoring required on all vessels, mandatory bycatch and interaction reporting in logbooks

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scampi (Australian, Boschma's, velvet)	trawl, bottom	max 7	not applicable	not applicable	year-round; Commonwealth Fishery: 144 degrees E to 125 E off Western Australian coast between 200m isobaths to the outer limit of the Aus. Fishing Zone	none documented	none documented	A/G		Australia Provided: Attachment A, Commonwealth Fisheries	observers present on vessels (not all trips are observed), Australia listed mm interactions as "not applicable," mandatory logbook reporting
orange roughy, ruby snapper, and other finfish	trawl	max 11	not applicable	not applicable	year-round; Commonwealth Fishery: deepwater off Western Australia between 200m isobath to the outer limit of the Aus. Fishing Zone	none documented	none documented	A/G		Australia Provided: Attachment A, Commonwealth Fisheries, finfish trawl (50mm mesh size restriction)	observers present on vessels (not all trips are observed), Australia listed mm interactions as "not applicable," mandatory logbook reporting
southern bluefin tuna	purse seine	27 domestic, 6 farm	not applicable	not applicable	year-round; Commonwealth Fishery: Australia EEZ	seals unspecified in the area and may interact, common dolphins, fur seals and unidentified dolphins	none documented	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: IWC 2010	no observed fatalities or injuries associated with this fishery, required reporting of protected species interactions, techniques employed by the fishery are used to avoid marine mammal interactions with purse seine nets and release any incidentally caught mammals alive
tuna and billfish (bigeye, yellowfin, swordfish, marlin)	longline	2	not applicable	not applicable	year-round; Commonwealth Fishery: Cape York to south Australian/Victorian border, Australia EEZ and high seas	Australian sea lion, seals unspecified, short-finned pilot whale, melon-headed whale, baleen whale, common dolphin, Indo- Pacific bottlenose dolphin	4 interactions, no mortalities (2016), cetaceans: 14, 2, 6, 3	P, A/G	WCPFC	Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: WCPFC, IWC 2015	western tuna and billfish fishery, e-monitoring required on all vessels, mandatory bycatch and interaction reporting in logbooks
skipjack tuna	purse seine	none provided	not applicable	not applicable	Commonwealth Fishery: Cape York to south Australian/Victorian border, Australia EEZ and high seas	none documented	none documented	A/G	WCPFC	WCPFC Annual Report to the Commission, Information on Fisheries, Research, and Statistics	not currently active
toothfish	longline, trawl	1	not applicable	not applicable	year-round; Commonwealth Fishery: Australia EEZ around Macquarie Island	Antarctic fur seal	1 (2014)	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	follows CCAMLR CMs for observer coverage though falls outside of the Convention Area, mandatory reporting of protected species interactions, 2 observers on board the vessel at all times
rock lobster and sea snail	trap/pot	2	not applicable	not applicable	year-round; Commonwealth Fishery: Coral Sea Fishery: Cape York to Sandy Cape	none documented	none documented	C/O, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	
small pelagics (sardine, blue mackerel)	purse seine	2	not applicable	not applicable	year-round; Commonwealth Fishery: southern WA, all of SA, Victoria, Tasmania, and New South Wales from 3nm to the edge of the Australian Fishing Zone, and Southern Queensland	none documented	none documented	C/O, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	CA anchovy, mackerel, sardine purse seine is Category III
small pelagics (blue mackerel, jack mackerel, redbait (rover))	trawl, midwater	1	not applicable	not applicable	year-round; Commonwealth Fishery: southern WA, all of SA, Victoria, Tasmania, and New South Wales from 3nm to the edge of the Australian Fishing Zone, and Southern Queensland	Australian fur seal, New Zealand fur seal, seals unspecified, common dolphin	dead: 48, 8, 12, 9 (6 fur seals interacted but released alive) (2015-16)	P, A/G	Small Pelagics Fishery Dolphin Mitigation Strategy	Australia Provided: Attachment A, Commonwealth Fisheries	e-monitoring required, cannot fish in closed areas for Coorong dolphin, and closures outlined in sea lion management strategy, dolphin strategy has been developed. Geelong Star responsible for 12 fur seals and 9 unidentified dolphins
deepwater flathead, bight redfish	trawl	3	not applicable	not applicable	year-round; Commonwealth Fishery: Great Australian Bight, shelf water, SA to Cape Leeuwin	New Zealand fur seal	2 released alive (2014-15)	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	closed areas are in operation in these fisheries, fishermen are required to report any interaction with protected species

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Blue grenadier, western gemfish, pink ling	trawl	3	not applicable	not applicable	year-round; Commonwealth Fishery: Great Australian Bight, continental slope water, SA to Cape Leeuwin	New Zealand fur seal, Australian fur seal, common dolphin	3 released alive (2014-15), ~10, 9	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: paper: "Multiple management units of short-beaked common dolphins subject to fisheries bycatch off southern and southeastern Australia"	closed areas are in operation in these fisheries, fishermen are required to report any interaction with protected species
deepwater flathead	Danish seine	1	not applicable	not applicable	year-round; Commonwealth Fishery: Great Australian Bight, shelf water, SA to Cape Leeuwin	New Zealand fur seal	4 released alive (2014-15)	P		Australia Provided: Attachment A, Commonwealth Fisheries	closed areas are in operation in these fisheries, fishermen are required to report any interaction with protected species
blue-eye trevalla, blue grenadier, blue warehou, deepwater sharks, eastern school whiting, flathead, gemfish, gulper shark, jackass morwong, john dory, mirror dory, ocean jacket, ocean perch, orange roughy, oreo dories, pink ling, redfish, ribaldo, royal red prawn, silver treevally, and silver warehou	trawl, demersal otter (sometimes also pair trawling and midwater trawling)	38	not applicable	not applicable	year-round; Commonwealth Fishery: east of Sydney, southward through the Bass Strait and around Tasmania to Cape Jervis in SA	Australian fur seal, Antarctic fur seal, New Zealand fur seal, seals unspecified, common dolphin, dolphins unspecified, bottlenose dolphin	Australian fur seal: 345 dead, 110 alive, Antarctic fur seal: 4 dead, 1 alive, New Zealand fur seal: 7 dead, 3 alive, seals unspecified: 230 dead, 44 alive, common dolphin: 9 dead, dolphins unspecified: 4 dead, 1 alive, bottlenose dolphin: 2	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: SC66a Report_Appendix L_Small Cetaceans, IWC 2012, IWC 2015	fishermen required to take reasonable steps to avoid interaction with protected species, and report interactions in logbooks
blue-eye trevalla, blue grenadier, blue warehou, deepwater sharks, eastern school whiting, flathead, gemfish, gulper shark, jackass morwong, john dory, mirror dory, ocean jacket, ocean perch, orange roughy, oreo dories, pink ling, redfish, ribaldo, royal red prawn, silver treevally, and silver warehou	Danish seine	16	not applicable	not applicable	year-round; Commonwealth Fishery: east of Sydney, southward through the Bass Strait and around Tasmania to Cape Jervis in SA	Australian fur seal, New Zealand fur seal, seals unspecified	Australian fur seal: 4 dead, 7 alive, New Zealand fur seal: 2 alive, seals unspecified: 24 dead, 20 alive	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	fishermen required to take reasonable steps to avoid interaction with protected species, and report interactions in logbooks
alfonsino, blue-eye trevalla, and boarfish	deepwater trawl	0 active 2016	not applicable	not applicable	year-round; Commonwealth Fishery: 200nm around Lord Howe Island off New South Wales	none documented	none documented	C/O, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	concerns with bottom habitat destruction, closed areas to protect orange roughy stocks
gummy shark	shark hook	24 (permits)	not applicable	not applicable	year-round; Commonwealth Fishery: waters off New South Wales/Victoria west to the SA/WA border, including waters around Tasmania to the extent of the Australian Fishing Zone.	Australian fur seal, New Zealand fur seal, seals unspecified, sea lions unspecified, killer whales	Australian fur seal: 1 alive, New Zealand fur seal: 4 dead, 1 alive, seals unspecified: 3 alive, sea lions unspecified: 2 alive, killer whales: 1 dead (2012-2016)	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	e-monitoring required, cannot fish in closed areas for Coorong dolphin, and closures outlined in sea lion management strategy, dolphin strategy for gillnet allows vessels to fish in Coorong Dolphin Zone provided the vessel is able to stay below a set bycatch rate, required reporting on interactions
blue-eye trevalla, pink ling	scalefish hook	16 (permits)	not applicable	not applicable	year-round; Commonwealth Fishery: waters off SA, Victoria, and Tasmania 3nm to the extent of the Australian Fishing Zone, also waters off Queensland and New South Wales	Australian fur seal, New Zealand fur seal, seals unspecified, sea lions unspecified, killer whales	Australian fur seal: 1 alive, New Zealand fur seal: 4 dead, 1 alive, seals unspecified: 3 alive, sea lions unspecified: 2 alive, killer whales: 1 dead (2012-2016)	P, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	e-monitoring required, cannot fish in closed areas for Coorong dolphin, and closures outlined in sea lion management strategy, dolphin strategy for gillnet allows vessels to fish in Coorong Dolphin Zone provided the vessel is able to stay below a set bycatch rate, required reporting on interactions

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
elephantfish, gummy shark, sawshark	gillnet	37 (permits)	not applicable	not applicable	year-round; Commonwealth Fishery: waters off New South Wales/Victoria west to the SA/WA border, including waters around Tasmania to the extent of the Australian Fishing Zone.	Australian fur seal, New Zealand fur seal, seals unspecified, Australian sea lion, sea lions unspecified, common dolphin, bottlenose dolphin, Indo-Pacific bottlenose dolphin	Australian fur seal: 24 dead, 4 alive, New Zealand fur seal: 14 dead, 1 alive, seals unspecified: 33 dead, 8 alive, Australian sea lion: +9 dead, 1 alive, sea lions unspecified: 2 dead, common dolphin: +28 dead, 2 alive, bottlenose dolphin: 2 dead, dolphins unspecified: 75 dead, 4 alive, 1	P, A/G	Environment Protection and Biodiversity Conservation Act, Australian Sea Lion Management Strategy, Dolphin Strategy for gillnet fishers	Australia Provided: Attachment A, Commonwealth Fisheries, MSRA Database: SC66a Report_Appendix L_Small Cetaceans, paper: "Multiple management units of short-beaked common dolphins subject to fisheries bycatch off southern and southeastern Australia", IWC 2012, 2014, 2015	e-monitoring required, cannot fish in closed areas for Coorong dolphin, and closures outlined in sea lion management strategy, dolphin strategy for gillnet allows vessels to fish in Coorong Dolphin Zone provided the vessel is able to stay below a set bycatch rate, required reporting on interactions
pink ling, hagfish	trap	2	not applicable	not applicable	Commonwealth Fishery: specific areas for specific trap fisheries	none documented	none documented	C/O, A/G		Australia Provided: Attachment A, Commonwealth Fisheries	e-monitoring required, cannot fish in closed areas for Coorong dolphin, and closures outlined in sea lion management strategy, dolphin strategy for gillnet allows vessels to fish in Coorong Dolphin Zone provided the vessel is able to stay below a set bycatch rate, required reporting on interactions, WA,CA, OR hagfish pots are Category III
prawn, scallop, lobster, squid	trawl, otter	289	not applicable	not applicable	year-round with 2 area closures; Queensland Fishery: New South Wales border to tip of Cape York east to offshore Constitutional Settlement line	inshore and common dolphins present in area	1 (unspecified sp - 2016)	P, A/G	Environment Protection and Biodiversity Conservation Act	Australia Provided: Attachment B, Queensland Fisheries	30 sp of marine mammals found in Queensland waters, mandatory reporting of protected species interactions
prawn, scallop, lobster, squid	bream trawl	50	not applicable	not applicable	year-round with 2 area closures; Queensland Fishery: New South Wales border to tip of Cape York east to offshore Constitutional Settlement line including rivers and creeks	inshore and common dolphins present in area	1 (unspecified sp - 2016)	P, A/G	Environment Protection and Biodiversity Conservation Act	Australia Provided: Attachment B, Queensland Fisheries	30 sp of marine mammals found in Queensland waters, mandatory reporting of protected species interactions
Anchovy, Australian bonito, Australian salmon, Beachworm spp., Blue mackerel, Black bream, Yellowfin bream, Catfish spp., Cockle spp., Blue swimmer crab, Sand crab spp., Cuttlefish spp., Emperor, Flathead, Dusky flathead, Sand/Bluespotted flathead, Flounder spp., Eastern sea garfish, River garfish, Shortbill garfish, Gumard spp., Hairtail, Hardyhead spp., John dory, Leatherjacket spp., Longtom spp., Luderick, Mackerel tuna, Mangrove jack, Flat-tail mullet, Pink-eye mullet, Red mullet Sand mullet, Sea mullet, Mulloway, Mussel spp., Nipper spp., Octopus spp., Old maid, Pike spp., Pilchard, Pipi, Prawns, Eastern king prawn, Greasyback prawn, School prawn, Tiger prawn, Red morwong, Saucer scallop, Scallop, Shellfish/snails spp., Silver biddy, Snapper, Sole spp., Squid spp., Stingray, Striped grunter spp., Sweep, Tailor, Tarwhine, Black trevally, Golden trevally, Silver trevally, Whaler shark spp., Whitebait spp., Sand whiting, School whiting, Trumpeter whiting, Yellowtail scad, Yellowtail kingfish	traps	140	not applicable	not applicable	year-round; New South Wales Fishery: specific estuaries	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
yellowfin bream, mud crab, river eels, dusky flathead, luderick, sea mullet, pipi, eastern king prawn, school prawn, sand whiting (and other spp)	meshing nets	351	not applicable	not applicable	year-round; New South Wales Fishery: specific estuaries	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
yellowfin bream, mud crab, river eels, dusky flathead, luderick, sea mullet, pipi, eastern king prawn, school prawn, sand whiting (and other spp)	fish hauling nets	113	not applicable	not applicable	year-round; New South Wales Fishery: specific estuaries	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
Prawns (Eastern king prawn, Greasyback prawn, School prawn, Tiger prawn)	prawn nets	265	not applicable	not applicable	year-round; New South Wales Fishery: specific estuaries	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
Australian sardine, anchovy, blue mackerel, yellowtail scad, whitebait	pilchard, anchovy, and bait net	22	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	C/O	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
Australian salmon, Australian sardine, Australian bonito, anchovy, blue mackerel, yellowtail scad, whitebait, jack mackerel, silver trevally, sweep, oriental bonito, skipjack tuna	purse seine	15	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
prawn (school prawn), Eastern king prawn, Greasyback prawn, Tiger prawn, Trumpeter whiting, Silverbiddy, Fork-tailed catfish, Estuary catfish, Striped catfish, Blue swimmer crab, Mud crab, Arrow squid, Broad squid, Slender squid	trawl, otter	64	not applicable	not applicable	New South Wales Fishery: Clarence River estuary	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	mandatory reporting of protected species interactions, observer program in effect
prawn (school prawn, eastern king prawn)	trawl, otter	22	not applicable	not applicable	year-round; New South Wales Fishery: Hunter River estuary	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	mandatory reporting of protected species interactions, observer program in effect
prawn (school prawn, eastern king prawn), squid (Loligo, Photololigo, Lolilus, Eupyrma, Sepioloidea), Greasyback prawn, Tiger prawn, Trumpeter whiting, Large-toothed flounder, Small-toothed flounder, Black sole, Silverbiddy, Striped grunter, Whitebait spp., Fork-tailed catfish, Striped catfish, Bullseye spp., Hairtail, Yellowtail scad, Blue swimmer crab, Mud crab, Octopus spp., Mantis shrimp	trawl, otter	41	not applicable	not applicable	year-round; New South Wales Fishery: Hawksbury River estuary	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	mandatory reporting of protected species interactions, observer program in effect

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Australian bonito, banded (bar) rock cod, blue-eye trevalla, grey (rubberlip) morwong, gummy shark, leatherjacket, silver trevally, snapper, spanner crab, yellowfin bream, yellowtail, kingfish	trap	157	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	humpback whale	1	P, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect, humpback whale swam into a line, interaction was brief and whale swam off not noticeably distressed by the encounter
spanner crab	crab net	21	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	none documented	none documented	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
Australian bonito, banded (bar) rock cod, blue-eye trevalla, grey (rubberlip) morwong, gummy shark, leatherjacket, silver trevally, snapper, spanner crab, yellowfin bream, yellowtail, kingfish	lines	248	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	humpback whale	1 (whale swam away unharmed)	C/O, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer program in effect
prawns (eastern king, school, royal red, Balmain bug), fish (tiger flathead, sand/bluespotted flathead, silver trevally, fiddler shark, eastern school whiting, stout whiting), octopus, cuttlefish, southern calamari	trawl, otter	136	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	New Zealand fur seal, unidentified seal	1 NZ fur seal: dead, 1 unidentified seal released alive	P, A/G	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer programs have previously been in effect in this fishery
fish (tiger flathead, sand/bluespotted flathead, silver trevally, fiddler shark, eastern school whiting, stout whiting)	Danish seine	38	not applicable	not applicable	year-round; New South Wales Fishery: ocean waters	New Zealand fur seal, unidentified seal	1 NZ fur seal: dead, 1 unidentified seal released alive	P	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) Biodiversity Conservation Act 2016 No 63 (NSW) Fisheries Management Act 1994 (NSW)	Australia Provided: Attachment C, New South Wales Fisheries	there are 6 marine parks and reserves where commercial fishing is restricted or prohibited, mandatory reporting of protected species interactions, observer programs have previously been in effect in this fishery
blue crab	pots	15	not applicable	not applicable	year-round; South Australia Fishery: gulf waters of SA	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, 2 buoys for every 10 pots encouraged, and limits on the number of pots per fisherman.
yellow-eye mullet, mulloway, bony bream, black bream, greenback flounder	set nets	109	not applicable	not applicable	year-round with spatial and temporal closures for specific species and gear types; South Australia Fishery: Lagoons and coastal marine waters	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
yellow-eye mullet, mulloway, bony bream, black bream, greenback flounder	haul nets	109	not applicable	not applicable	year-round with spatial and temporal closures for specific species and gear types; South Australia Fishery: Lagoons and coastal marine waters	dolphins unspecified	8	P, C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries, Mackay et al, 2015_Operational Interactions with Threatened Endangered or Protected Sp	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
crustaceans (blue swimmer crab, sand crab, velvet crab)	pots/traps	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	year-round, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, 2 buoys for every 10 pots encouraged, and limits on the number of pots per fisherman.
crustaceans (blue swimmer crab, sand crab, velvet crab)	nets	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
molluscs (southern calamari, cockle, cuttlefish, mussel, octopus, oyster, scallop, Gould's squid)	trap	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
molluscs (southern calamari, cockle, cuttlefish, mussel, octopus, oyster, scallop, Gould's squid)	nets	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
Scalefish (Australian anchovy, barracouta, black bream, cod, dory, flathead, flounder, southern garfish, bluespotted goatfish, Australian herring, yellowtail kingfish, leatherjacket, pink ling, blue mackerel, jack mackerel, morwong, mullet, mulloway, redfish, Bight redfish, West Australian salmon, snapper, snook, southern sole, sea sweep, swallowtail, blue-eye trevalla, trevally, whiting, bluelthroat wrasse)	longline	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	dolphin unspecified, common dolphin	1 (2007/08), 1	P, A/G		Australia Provided: Attachment D, South Australian Fisheries, MSRA Database: IWC 2010, http://www.pir.sa.gov.au/_data/assets/pdf_file/0010/2/17666/ESD_Risk_Assessment_Report_for_the_South_Australian_Commercial_Marine_Scalefish_Fishery_-_July_2011.pdf	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, moderate risk to fur seal populations, time-area closures
Scalefish (Australian anchovy, barracouta, black bream, cod, dory, flathead, flounder, southern garfish, bluespotted goatfish, Australian herring, yellowtail kingfish, leatherjacket, pink ling, blue mackerel, jack mackerel, morwong, mullet, mulloway, redfish, Bight redfish, West Australian salmon, snapper, snook, southern sole, sea sweep, swallowtail, blue-eye trevalla, trevally, whiting, bluelthroat wrasse)	gillnet	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	dolphin unspecified, common dolphin	1 (2007/08), 1	P, A/G		Australia Provided: Attachment D, South Australian Fisheries, MSRA Database: IWC 2010	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, time-area closures
Scalefish (Australian anchovy, barracouta, black bream, cod, dory, flathead, flounder, southern garfish, bluespotted goatfish, Australian herring, yellowtail kingfish, leatherjacket, pink ling, blue mackerel, jack mackerel, morwong, mullet, mulloway, redfish, Bight redfish, West Australian salmon, snapper, snook, southern sole, sea sweep, swallowtail, blue-eye trevalla, trevally, whiting, bluelthroat wrasse)	purse seine	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	dolphin unspecified, common dolphin	1 (2007/08), 1	P, A/G		Australia Provided: Attachment D, South Australian Fisheries, MSRA Database: IWC 2010	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
Scalefish (Australian anchovy, barracouta, black bream, cod, dory, flathead, flounder, southern garfish, bluespotted goatfish, Australian herring, yellowtail kingfish, leatherjacket, pink ling, blue mackerel, jack mackerel, morwong, mullet, mulloway, redfish, Bight redfish, West Australian salmon, snapper, snook, southern sole, sea sweep, swallowtail, blue-eye trevalla, trevally, whiting, bluelthroat wrasse)	other nets	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	dolphin unspecified, common dolphin	1 (2007/08), 1	P, A/G		Australia Provided: Attachment D, South Australian Fisheries, MSRA Database: IWC 2010	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, time-area closures

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Scalegfish (Australian anchovy, barracouta, black bream, cod, dory, flathead, flounder, southern garfish, bluespotted goatfish, Australian herring, yellowtail kingfish, leatherjacket, pink ling, blue mackerel, jack mackerel, morwong, mullet, mullet, mulloway, redfish, Bight redfish, West Australian salmon, snapper, snook, southern sole, sea sweep, swallowtail, blue-eye trevalla, trevally, whiting, bluetthroat wrasse)	traps	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	dolphin unspecified, common dolphin	1 (2007/08), 1	P, A/G		Australia Provided: Attachment D, South Australian Fisheries, MSRA Database: IWC 2010	6% of South Australian waters have been designated as Sanctuary zones, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, time-area closures
sharks (skates, rays, and sharks of all species [except white shark])	longline	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	6% of South Australian waters have been designated as Sanctuary zones, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, time-area closures
sharks (skates, rays, and sharks of all species [except white shark])	gillnet	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	6% of South Australian waters have been designated as Sanctuary zones, annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, time-area closures
sharks (skates, rays, and sharks of all species [except white shark])	purse seine	771	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm	none documented	none documented	C/O, A/G		Australia Provided: Attachment D, South Australian Fisheries	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually
western king prawn	prawn trawl net	52	not applicable	not applicable	year-round; South Australia Fishery: marine waters of SA to 200nm Gulf St Vincent: 1 November to 25 December and 1 March to 31 July, Spencer Gulf: 1 November to 31 December and 1 March to 30 June, West Coast: year-round; South Australia Fishery: >10m depth north in Gulf St. Vincent, Investigator Strait, and Backstairs Passage, Spencer Gulf	seals unidentified	2 (2009/10), ~100 (2007-15)	P, A/G		Australia Provided: Attachment D, South Australian Fisheries, Mackay et al, 2015_Operational Interactions with Threatened Endangered or Protected Sp	annual reporting of interaction with Threatened , Endangered and Protected Species (TEPS) published annually, National ESD Reporting Framework for Fisheries
demersal fishes, predominantly tropical snappers	fish traps	8	not applicable	not applicable	year-round; Northern Territory Fishery: to 15nm from the coast	none documented	none documented	C/O, A/G		Australia Provided: Attachment E, Northern Territory Fisheries	logbooks are required documenting marine mammal interactions
demersal fishes, predominantly tropical snappers	trawl	8	not applicable	not applicable	year-round; Northern Territory Fishery: to 15nm from the coast	dolphins unspecified	2	P, A/G	Bycatch Reduction Devices	Australia Provided: Attachment E, Northern Territory Fisheries	all trawls are required to have bycatch reduction devices, malfunction of a bycatch reduction device on the trawl (2014), logbooks are required documenting marine mammal interactions
Australian blacktip sharks, common blacktip shark, spottail shark, grey mackerel	longline, demersal	9	not applicable	not applicable	year-round; Northern Territory Fishery: to the outer limit of the Australian Fishing Zone	dolphin unspecified	1 (2015)	P, A/G	offshore net and fishery code of practice	Australia Provided: Attachment E, Northern Territory Fisheries	protected species fact sheets developed for dugongs
Australian blacktip sharks, common blacktip shark, spottail shark, grey mackerel	longline, pelagic	9	not applicable	not applicable	year-round; Northern Territory Fishery: to the outer limit of the Australian Fishing Zone	dolphin unspecified	1 (2015)	P, A/G	offshore net and fishery code of practice	Australia Provided: Attachment E, Northern Territory Fisheries	protected species fact sheets developed for dugongs
Australian blacktip sharks, common blacktip shark, spottail shark, grey mackerel	gillnet	9	not applicable	not applicable	year-round; Northern Territory Fishery: to the outer limit of the Australian Fishing Zone	dolphin unspecified	1 (2015)	P, A/G	offshore net and fishery code of practice	Australia Provided: Attachment E, Northern Territory Fisheries	protected species fact sheets developed for dugongs
Timor Reef demersal fishes, predominantly tropical snappers	traps	8	not applicable	not applicable	year-round; Northern Territory Fishery: 160km northwest of Darwin	none documented	none documented	C/O, A/G		Australia Provided: Attachment E, Northern Territory Fisheries	logbooks are required, logbooks are required documenting marine mammal interactions

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Timor Reef demersal fishes, predominantly tropical snappers	trawl	8	not applicable	not applicable	year-round; Northern Territory Fishery: 160km northwest of Darwin	none documented	none documented	C/O, A/G		Australia Provided: Attachment E, Northern Territory Fisheries	currently a trial fishery under a research permit, bycatch reduction devices are required on all trawl nets used in the research trial
saucer scallop, some western king prawn	trawl, demersal otter	4	not applicable	not applicable	March/April to August; Western Australian Fishery: area off the mainland between 27 degrees S 51 min and 29 degrees S 3 min	none documented	none documented	C/O, A/G	Bycatch Reduction Devices	Australia Provided: Attachment F, Western Australian Fisheries	license conditions are in place requiring bycatch reduction devices and grids
prawns (western king, brown tiger, endeavor, banana)	trawl, demersal otter	6	not applicable	not applicable	Early April to late November/early December, some areas are closed to fishing; Western Australian Fishery: waters of the Exmouth Gulf south of a line that extends from the mainland to Muiron Islands, Serrurier Island and 114 degrees 46 min E	dolphin unspecified	1 reported between 2006 and 2016	C/O, A/G	Bycatch Reduction Devices	Australia Provided: Attachment F, Western Australian Fisheries	license conditions are in place requiring bycatch reduction devices and grids, MSC Certified
Octopus	traps	25	not applicable	not applicable	year-round; Western Australian Fishery; Cockburn Sound, three zones extending from the mainland	humpback whale	2 reported between 2006 and 2016	P, A/G	Entanglement Mitigation Measures have been Adopted	Australia Provided: Attachment F, Western Australian Fisheries, MSRA Database: IWC 2010	To mitigate gear entanglement with whales, the following mitigation measures have been adopted: OIMF: When fishing in zones 1 or 2 between 1 May and 14 November each year, the master of an authorized vessel must, where using multiple traps or cradles, all traps or cradles must be set in longline formation consisting of a minimum of 20 traps or cradles per longline; or where using single traps or cradles, ensure: there is no rope on the surface of the water, other than which is part of the float rig, and at least one third of the line is held vertically in the water. CSLP: When fishing between 1 May and 14 November each year, when using an octopus pot or series of pots joined together by a line underwater there must be no rope other than the float rig on the surface of the water; and when using a series of pots joined together by a line underwater, the line may only join a minimum of 20 octopus pots.
pilbara fish trawl (snapper species, rankin cod, can include cuttlefish and squid)	trawl	3	not applicable	not applicable	year-round, area closures; Western Australian Fishery: zone 2	dolphins unspecified, bottlenose dolphin	average of 22.2 interactions each year, 18.4 result in mortality, 0.65-1.2% bycatch rate	P, A/G	Bycatch Reduction Devices	Australia Provided: Attachment F, Western Australian Fisheries, Allen et al, 2014, Patterns of dolphin bycatch in a NW Australian trawl fishery	gear restrictions, use of bycatch reduction devices is mandatory
blue swimmer crab	trawl	27	not applicable	not applicable	year-round; Western Australian Fishery: operates in 2 zones: west off the mainland bw 23 degrees 34 min S and 26 degrees 30 min S to approx. 150m isobath, zone 2 covers the waters of Shark Bay	none documented	none documented	C/O, A/G	Bycatch Reduction Devices	Australia Provided: Attachment F, Western Australian Fisheries	main mammal of concern in shark bay is the dugong, spatial and temporal closures here reduce the potential for dugong interaction, trawl operators are required to use bycatch reduction devices in Shark Bay
blue swimmer crab	traps	27	not applicable	not applicable	year-round; Western Australian Fishery: operates in 2 zones: west off the mainland bw 23 degrees 34 min S and 26 degrees 30 min S to approx. 150m isobath, zone 2 covers the waters of Shark Bay	none documented	none documented	C/O, A/G		Australia Provided: Attachment F, Western Australian Fisheries	main mammal of concern in shark bay is the dugong, spatial and temporal closures here reduce the potential for dugong interaction, trap longlines are required to be made from negatively buoyant rope to minimize interactions

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
prawns (western king, brown tiger, coral, endeavor)	trawl	18	not applicable	not applicable	March/April to October/November; Western Australian Fishery: waters off the mainland between 23 degrees, 34 min S, and 26 degrees, 30 min S to approx. 200m isobath	dolphin unspecified	2 reported between 2006 and 2016	C/O, A/G	Bycatch Reduction Devices	Australia Provided: Attachment F, Western Australian Fisheries	several nursery areas are closed to fishing, and other fishery areas can be closed or opened during the fishing season, main mammal of concern in shark bay is the dugong, spatial and temporal closures here reduce the potential for dugong interaction, trawl operators are required to use bycatch reduction devices in Shark Bay, mandatory use of logbook reporting, MSC Certified
scallop	trawl	24	not applicable	not applicable	March to May, and August to February; Western Australian Fishery: waters off the mainland between 23 degrees, 34 min S, and 26 degrees, 30 min S to approx. 200m isobath	none documented	none documented	C/O, A/G	Bycatch Reduction Devices	Australia Provided: Attachment F, Western Australian Fisheries	several nursery areas are closed to fishing, and other fishery areas can be closed or opened during the fishing season, main mammal of concern in shark bay is the dugong, spatial and temporal closures here reduce the potential for dugong interaction, trawl operators are required to use bycatch reduction devices in Shark Bay, mandatory use of logbook reporting
rock lobster, deep sea crab	pots	25	not applicable	not applicable	Western Australian Fishery: four zones on the south coast extending from 34 degrees, 24 min S to the WA/SA border, including an offshore zone	none documented	none documented	C/O, A/G	SLEDs required in all lobster pots, closed areas near known seal colonies	Australia Provided: Attachment F, Western Australian Fisheries	seasonal and spatial closures apply, the primary mammal of concern for this fishery is the Australian sea lion. All areas for 30 km or to 80 km depth around known sea lion colonies are closed to fishing unless pots are fitted with sea lion exclusion devices
rock lobster	pots	295	not applicable	not applicable	year-round; Western Australian Fishery: three zones off the west coast of WA between 21 degrees, 44 min S and 34 degrees, 24 min S	unspecified whales, dolphins, and seals, humpback whale, southern right whale	7 whales (5 released alive, 2 dead), 1 dolphin (fate unknown), 1 seal (dead) (over last 10 years), 25 (2012, 2015), 2 (2012)	P, A/G	West Coast Rock Lobster Managed Fishery code of practice for reducing whale entanglements, SLEDs required on pots in specific areas within the fishing zone	Australia Provided: Attachment F, Western Australian Fisheries, MSRA Database:IWC 2012, 2015	pots are required to be fitted with sea lion exclusion devices within certain areas in the fishing area. Measures are in place that fishermen are required to abide by in order to reduce marine mammal interactions. These include gear modifications around the length of rope, the use of negatively buoyant rope and minimum pot retrieval requirements. Fishermen are encouraged to call in whale sightings to assist with whale migration research.
deep sea crabs	pots	5	not applicable	not applicable	year-round; Western Australian Fishery: all waters between 34 degrees, 24 min S, the WA/NT border and the seaward side of the 150m isobath to the Australian Fishing Zone	none documented	none documented	C/O, A/G		Australia Provided: Attachment F, Western Australian Fisheries	required reporting of protected species interactions
giant crab	trap	6	not applicable	not applicable	year-round; Tasmanian Fishery: Tasmanian waters	none documented	none documented	C/O, A/G		Australia Provided: Attachment G, Tasmanian Fisheries	mandatory reporting of marine mammal interactions however due to design of the gear and nature of operations no incidents have been recorded or are likely to occur
rock lobster	pots	200	not applicable	not applicable	mid-November-October 1; Tasmanian Fishery: predominantly coastal (less than 50m) around the state	seals	1 mortality 2014 (other non-fatal interactions with gear)	P, A/G	Whale mitigation strategy in development	Australia Provided: Attachment G, Tasmanian Fisheries	risk assessment completed for interactions with seals, assessment results indicated that increasing interactions with migrating humpback whales likely as populations increase. A whale mitigation strategy is currently being developed as a high priority
salmon and ocean trout	aquaculture (cages)	44 leases	none provided	not applicable	year-round; Tasmanian Fishery: Tasmanian coastal waters	seals, common dolphin, bottlenose dolphin	7-25, 4, 1-2 /yr.	P, A/G	Seal Management Framework	Australia Provided: Attachment G, Tasmanian Fisheries, MSRA Database: IWC 2011	seals are sedated for removal and relocation from aquaculture pens. A Seal Management Framework was established to allow for applying best practice management strategies to reduce seal interactions and address potential risks. Under specialized specific circumstances humane euthanasia of seals is permitted (only when it is a recognized, repeat-offender seal that poses risk to aquaculture workers)
rock lobster	pots	118 licenses (no vessel limit)	not applicable	not applicable	year-round; Victorian Fishery: Victorian coastal waters	seal, humpback whale	2 seal mortalities, 1 humpback whale entanglement (untangled successfully and released alive)	P, A/G	voluntary code of practice for reducing whale entanglements	Australia Provided: Attachment H, Victorian Fisheries	year-round with over-lapping closed seasons for male and female lobster, closed areas where fishing is not permitted, fishery has developed a voluntary code of practice for reducing whale entanglements
giant crab	pots	30 licenses	not applicable	not applicable	year-round; Victorian Fishery: Victorian coastal waters	none documented	none documented	C/O, A/G		Australia Provided: Attachment H, Victorian Fisheries	year-round with over-lapping closed seasons for male and female lobster, closed areas where fishing is not permitted
mackerel	trawl	none provided	none provided	none provided	Indian Ocean	sperm whale	1	P, A/G		MSRA Database: IWC 2012	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
southern bluefin tuna	aquaculture (sea cages)	14	none provided	not applicable	year-round; South Australia Fishery: Port Lincoln	long-nose fur seals, bottlenose dolphin	2, 1 (since 2005)	N/I	Aquaculture Regulations 2016 to minimize interactions	Australia Provided: Attachment D, South Australian Fisheries	required under Aquaculture Regulations 2016 to have an approved strategy to minimize interactions with seabirds and marine mammals. The strategy must be approved by the minister
yellowtail kingfish	aquaculture (sea cages)	23	none provided	not applicable	year-round; South Australia Fishery: Port Lincoln, Arno Bay, Fitzgerald Bay (Spencer Gulf)	long-nose fur seals, dolphins unspecified	3, 15 (since 2005)	N/I	Aquaculture Regulations 2016 to minimize interactions	Australia Provided: Attachment D, South Australian Fisheries	required under Aquaculture Regulations 2016 to have an approved strategy to minimize interactions with seabirds and marine mammals. The strategy must be approved by the minister
yellowtail kingfish	aquaculture (cages)	1	none provided	not applicable	year-round; Western Australian Fishery: coast of Geraldton	none documented, single case of predator net breach (sp not noted), animal released unharmed	none documented	N/I	Marine Fauna Interaction Management Plan	Australia Provided: Attachment F, Western Australian Fisheries	measures regulating net maintenance and feeding schedules to reduce waste as an attractant, mandatory reporting requirements for marine mammal sightings within the vicinity of aquaculture infrastructure
Export Fisheries with No Information											
finfish	line/haul/trap	2	not applicable	not applicable	year-round; Commonwealth Fishery: Coral Sea Fishery: Cape York to Sandy Cape	none documented	none documented	N/I		Australia Provided: Attachment A, Commonwealth Fisheries	
dolphinfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Azerbaijan											
Export Fisheries											
caviar (sturgeon, black)	gillnet	657	Not applicable	Not applicable	Caspian sea	Caspian seal	none provided	A/G		http://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0067074&type=printable	
Bahamas											
Exempt Fisheries											
crab	pots, traps	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Tropic Seafood	Not applicable	none provided	none provided	none provided	N/I, A/G		http://www.sea-ex.com/countryinfo/bahamas.htm , https://www.bahamas.gov.bs/wps/wcm/connect/e1d636dd-1a9b-4661-9e38-ba9bf546a534/FINAL+Bahamas+Fisheries+%26+Aqua+culture+Sector+Review+17Nov16.pdf?MOD=AJPERES	U.S. LoF Caribbean spiny lobster trap/ pot >197 None documented
conch, coral, sponge	hand collection by diving, conch hooks	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Best choice Seafood, Sea Food Angels,	Not applicable	none provided	none provided	none provided	N/I, A/G		http://www.sea-ex.com/countryinfo/bahamas.htm	
lobster	pots, traps	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Best choice Seafood, Sea Food Angels,	Not applicable	none provided	none provided	none provided	A/G		http://www.sea-ex.com/countryinfo/bahamas.htm , https://www.youtube.com/watch?v=NCEggv6GhYU&t=42s	U.S. LoF Caribbean spiny lobster trap/ pot >197 None documented
Export Fisheries with No Information											
grouper, snapper	none provided	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Sea Food Angels, Tropic Seafood	Not applicable	none provided	none provided	none provided	N/I		http://www.sea-ex.com/countryinfo/bahamas.htm , https://www.youtube.com/watch?v=NCEggv6GhYU , http://www.bahamafood.com/products/seafood-2/ , https://www.youtube.com/watch?v=NCEggv6GhYU&t=42s	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
molluscs	none provided	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Not applicable	Not applicable	none provided	none provided	none provided	N/I		http://www.sea-ex.com/countryinfo/bahamas.htm	
flatfish turbot	none provided	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Not applicable	Not applicable	none provided	none provided	none provided	N/I		U.S. trade data	
groundfish	none provided	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	Not applicable	Not applicable	none provided	none provided	none provided	N/I		U.S. trade data	
sea cucumbers	none provided	585 Dinghies (small boat 17 feet) and 399 motherships (larger than 20 feet) per FAO report in 2014	none provided	none provided	none provided	none provided	none provided	N/I		U.S. trade data	

Bahrain

Export Fisheries with No Information

crab, lobster	trap, pot, wire traps	1000	Not applicable	Not applicable	none provided	none provided	none provided	N/I		U.S. Trade data, http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.academia.edu/8682650/Status_of_Commercial_Fisheries_in_the_Kingdom_of_Bahrain 21 cetacean spp occur in Arabian Gulf: https://www.cbd.int/doc/meetings/mar/ebsaws-2015-02/other/ebsaws-2015-02-gobi-submission4-en.pdf	
cuttlefish	none provided	1000	Not applicable	Not applicable	none provided	none provided	none provided	N/I		U.S. Trade data, http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.academia.edu/8682650/Status_of_Commercial_Fisheries_in_the_Kingdom_of_Bahrain	
snapper, grouper	gillnet, fixed stake nets	213	Not applicable	Not applicable	none provided	none provided	none provided	N/I, A/G		U.S. Trade data, http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.academia.edu/8682650/Status_of_Commercial_Fisheries_in_the_Kingdom_of_Bahrain	
shrimp	trawl	229	Not applicable	Not applicable	none provided	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.academia.edu/8682650/Status_of_Commercial_Fisheries_in_the_Kingdom_of_Bahrain	
finfish - rabbit fish, emperors, groupers, mackerel, bream (seabream and sobaity), grunt	aquaculture	not applicable	none provided	Not applicable	none provided	none provided	none provided	N/I		http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.academia.edu/8682650/Status_of_Commercial_Fisheries_in_the_Kingdom_of_Bahrain	
finfish - rabbit fish, emperors, groupers, mackerel, bream (seabream and sobaity), grunt	gillnet, fixed stake nets, driftnets	not applicable	none provided	Not applicable	none provided	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm http://www.academia.edu/8682650/Status_of_Commercial_Fisheries_in_the_Kingdom_of_Bahrain	
jellyfish	none provided	none provided	Not applicable	Not applicable	none provided	none provided	none provided	N/I			
ray and shark	driftnets	none provided	Not applicable	Not applicable	none provided	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/bhr/profile.htm	driftnets are illegal but still used

Bangladesh

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
crab	handnet scoop	5000 families or 8000 collectors living along Sundarbans, and the coastal rivers of country	Siam Canadian Group, Lunaz Sea Foods, WorldLink, Maritech Overseas Enterprises, Nodi Seafoods	Seedstock or juvenile collected from mangrove areas and fattening it in the farm-like environment, Shatkhira, Bagerhat, Khulna	Along the sundarbans and coastal rivers of Bay of Bengal (area 57)	None (Predators of adult mud crab are turtle and shark)	none documented	A/G	No	http://www.fao.org/3/a-i0254e/i0254e13.pdf , http://www.fish.wa.gov.au/Species/Mud-Crabs/Pages/default.aspx , http://www.trade-seafood.com/directory/seafood/country/bangladesh.htm , http://www.fao.org/fishery/area/Area57/en#FAO-fishing-area-57.1 , https://www.youtube.com/watch?v=HEmi90bURfY	IOTC 2015: Ecologically related species (e.g. marine mammals, whale sharks) shall not be hunted, killed or captured according to the Bangladesh Wildlife Preservation Act-1973. No conventional observer system practicing on board to monitor sea fishing. The MCS activities of the national fishing fleet engaged in offshore operation depends on Bangladesh Navy and Coast guard . personnel of Marine Wing of DoF were participated on board as observer in 2 patrolling vessel of Bangladesh Navy on test basis.
shrimp (Black Tiger)	aquaculture	>65,000 shrimp farmers in SW districts of Khulna, Bagerhat, and Satkhira	162 processors (e.g. Siam Canadian Group, Lunaz Sea Foods, Al Mizan Int'l Trading, Amitco Group, Anraj Fish Product Industries, AquaMax, Asian Seafood Limited, Bengal Sea Food & Royal Bengal Group, Captain Cox Sea Foods Int'l, Flower Int'l, Maritech Overseas Enterprises, Maryland Seafood Int'l, Nikita Int'l, Red Rose Int'l, SouthShield Fisheries Limited)	Hatcheries in SW districts of Khulna, Bagerhat, and Satkhira	SW districts of Khulna, Bagerhat, and Satkhira	None documented	none documented	A/G		http://www.ipsnews.net/2016/05/bangladeshi-shrimp-farmers-see-bright-future-in-small-fry/ , https://www.unescap.org/sites/default/files/6-%20%20Sea%20Food%20Export%20from%20Bangladesh-Kabir.pdf	
shrimp (Freshwater Prawn)	aquaculture	>65,000 shrimp farmers in SW districts of Khulna, Bagerhat, and Satkhira	162 processors (e.g. Siam Canadian Group, Lunaz Sea Foods, Al Mizan Int'l Trading, Amitco Group, Anraj Fish Product Industries, AquaMax, Asian Seafood Limited, Bengal Sea Food & Royal Bengal Group, Captain Cox Sea Foods Int'l, Flower Int'l, Maritech Overseas Enterprises, Maryland Seafood Int'l, Nikita Int'l, Red Rose Int'l, SouthShield Fisheries Limited)	Hatcheries in SW districts of Khulna, Bagerhat, and Satkhira	SW districts of Khulna, Bagerhat, and Satkhira	None documented	none documented	A/G		http://www.ipsnews.net/2016/05/bangladeshi-shrimp-farmers-see-bright-future-in-small-fry/ , https://www.unescap.org/sites/default/files/6-%20%20Sea%20Food%20Export%20from%20Bangladesh-Kabir.pdf	
Export Fisheries											
shrimp	trawl	30 to 37	none provided	none provided	none provided	none provided	none provided	A/G	None provided	U.S. trade data	
sardine, carp, croaker, ribbon, grouper, grunter, scads, mackerel, sole/flatfish, catfish, red snapper, tuna, Hilsa, Pomfret, red fish/breams, eel, sharks, rays, cuttlefish, shrimp	trawl	247	not applicable	not applicable	Bay of Bengal	none provided	none provided	A/G	None provided	Bangladesh National Report to the Scientific Committee of the Indian Ocean Tuna Commission, 2016, Young and Ludicello, http://www.nmfs.noaa.gov/pr/pdfs/interactions/cetacean_bycatch_techmemo.pdf , CMS 2011; Reeves et al 2004;	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
sardine, carp, croaker, ribbon, grouper, grunter, scads, mackerel, sole/flatfish, catfish, red snapper, tuna, Hilsa, Pomfret, red fish/breams, eel, sharks, rays, cuttlefish, shrimp	gillnet	32,859	not applicable	not applicable	Bay of Bengal	Irrawaddy dolphin, Ganges river dolphin	none provided	C/O, A/G	None provided	Bangladesh National Report to the Scientific Committee of the Indian Ocean Tuna Commission, 2016, IOTC 2010, Young and Ludicello, http://www.nmfs.noaa.gov/pr/pdfs/interactions/cetacean_bycatch_techmemo.pdf ; CMS 2011; Reeves et al 2004;	
shrimp, anchovy, jewfish, pomfret, ribbon	gillnet	32,859	not applicable	not applicable	Bay of Bengal	Irrawaddy dolphin, Ganges river dolphin	none provided	C/O, A/G	None provided	Bangladesh National Report to the Scientific Committee of the Indian Ocean Tuna Commission, 2016, IOTC 2010	
Export Fisheries with No Information											
Flatfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Crustaceans and Lobster (rock, homarus spp.)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Squid, cuttlefish, octopus	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
mullet, herring	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Sauger	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Shad	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Perch (pike perch, yellow pike)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Molluscs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
eels	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	Freshwater fisheries are exempt, eels may be harvested in freshwater.
butterfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	
Groundfish (cod, hake, whiting, whitefish)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	None provided	U.S. trade data	None provided

Barbados

Export Fisheries											
tuna (yellowfin, bigeye), dolphinfish, swordfish	longline	45	Not applicable	Not applicable	Atlantic Ocean, southeast of Barbados Island	None documented	None documented	A/G	Non-member so ICCAT rules not binding	U.S. trade data	

Belgium

Export Fisheries											
flounder, plaice, sole	trawl, beam	65	none provided	none provided	southern and central North Sea	harbor porpoise	none documented	A/G, C/O		U.S. Trade Data: FAO 2005 - http://www.fao.org/oldsite/FCP/en/BEL/body.htm	
northern prawn	trawl, beam	35	none provided	none provided	southern and central North Sea	harbor porpoise	none documented	A/G, C/O		U.S. Trade Data: FAO 2005 - http://www.fao.org/oldsite/FCP/en/BEL/body.htm	
flounder, plaice, sole	trawl, otter	5	none provided	none provided	southern and central North Sea	harbor porpoise	none documented	A/G, C/O		U.S. Trade Data: FAO 2005 - http://www.fao.org/oldsite/FCP/en/BEL/body.htm	
northern prawn	trawl, otter	5	none provided	none provided	southern and central North Sea	harbor porpoise	none documented	A/G, C/O		U.S. Trade Data: FAO 2005 - http://www.fao.org/oldsite/FCP/en/BEL/body.htm	
flatfish and cod	nearshore gillnet	none provided	none provided	none provided	ICES area - North Sea	Harbor Porpoise, gray seals, harbor seals	28	P, C/O		http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2016/2016/Protected_species_bycatch.pdf , IWC 2012, Annual reports by EU member states under EU cetacean bycatch Regulation 812/2004; harbor porpoises, grey and harbor seals reported. Strandings data.	ICES Advice 2015
Export Fisheries with No Information											
seaweed	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
crustaceans, crab, king crab	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
molluscs, mussels	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
octopus	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
herring	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
agar agar (algae)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
anchovy	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
coral	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
cuttlefish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
sturgeon roe, caviar	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
menhaden (oil)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
snail	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	

Belize

Exempt Fisheries

Caribbean Spiny Lobster (<i>Panulirus argus</i>), crab	lobster traps/casitas/hook stick	561	Caribeña Producers Cooperative Society Ltd, National Fishermen Producers Cooperative Society Ltd, Placencia Producers Cooperative Society Ltd,	not applicable	Territorial Waters	none documented	none document	A/G		U.S. LoF Caribbean spiny lobster trap/ pot >197 None documented, Lobster fishing is also carried out using hook sticks and snares by free diving method. Belize does not allow the use of SCUBA gear for any type of commercial fishing.	483 artisanal vessels ranging from 20 feet to 32 feet and 78 artisanal vessels less than 20 feet in length. Registered vessels used for multi-species fishery (lobster, conch, fin fish).
Queen Conch (<i>Strombus gigas</i>)	free diving	561	none provided, Caribeña Producers Cooperative Society Ltd, National Fishermen Producers Cooperative Society Ltd, Placencia Producers Cooperative Society Ltd,	not applicable	Territorial Waters	none	none	A/G	FAO - http://www.fao.org/fi/oldsite/FCP/en/blz/profile.htm	Free diving is an exempt gear. Fishing for Sea Cucumber is seasonal and is regulated under the national laws under the Fisheries Act. Closed season is from July 1st to December 31st.	
Sea Cucumber (<i>Holothuria mexicana</i> , <i>Isostichopus badiionotus</i>)	free diving	20	not applicable	not applicable	Territorial Waters	none documented	none documented	A/G	FAO - http://www.fao.org/fi/oldsite/FCP/en/blz/profile.htm	This fishery is managed by quota and for 2016-2017 there is a moratorium for the fishing season.	
Finfish, snapper, grouper	spear gun / handline	561	not applicable	not applicable	Territorial Waters	none documented	none documented	A/G	FAO - http://www.fao.org/fi/oldsite/FCP/en/blz/profile.htm		
Finfish, snapper, grouper	vertical and horizontal longline	561	not applicable	not applicable	Territorial Waters	no information	no information	A/G	FAO - http://www.fao.org/fi/oldsite/FCP/en/blz/profile.htm	Southeastern U.S. Atlantic, Gulf of Mexico, and Caribbean snapper-grouper and other reef fish bottom longline/hook-and-line	
Finfish, snapper, grouper	fish traps	561	not applicable	not applicable	Territorial Waters	none documented	none documented	A/G	U.S. trade data		
coral, shells, cuttlebone	hand collection	none provided	not applicable	not applicable	Territorial Waters	none	none	A/G	U.S. trade data	No coral is currently exported now, however there is potential for that fishery to export in the future.	

Export Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Sharks	gillnet	15	not applicable	not applicable	Territorial Waters	dolphins, west Indian manatee, humpback whale	no information	C/O, A/G	ICCAT	<p>http://www.breakingbelizenews.com/2016/04/25/humpback-whale-dies-southern-belize/ http://www.breakingbelizenews.com/2016/04/25/humpback-whale-dies-southern-belize/ Gill nets fishing in Belize occurs primarily within the inner Barrier Reef lagoon. Belize has regulations for allowed total length of one gill net being 100 meters and not more than 300 meters allowed per vessel provided that nets are not joined together. This particular case with the Humpback whale, it was reported couple months earlier that the mammal was stranded in Puerto Barrios Area. The usage of gill nets in Belize is primarily for artisanal fishing and there is no way that whales use the inner Barrier Reef lagoon as their migratory route. https://whalesandmarinefauna.wordpress.com/2016/04/25/humpback-whale-dies-in-southern-belize/</p>	ICCAT, A total of 58 individual shark fishing licenses were issued to fishers in 2016. Also 5 shark export permits were issued. Exports mostly to Honduras and Guatemala. No exports to the U.S.A. from the national fishery. The fishing gear is primarily gill nets and long lines. Fishing for shark is seasonal and is regulated under the Fisheries Act. Closed season from August 1st to October 31st and protected species include the <i>Ginglymostoma cirratum</i> ; <i>Rhincondon typus</i> ; CITES regulated species are <i>Sphyrna lewini</i> and <i>Sphyrna mokarran</i> .
Sharks	longline	15	not applicable	not applicable	Territorial Waters	dolphins, west Indian manatee	none provided	C/O, A/G	ICCAT	<p>http://www.breakingbelizenews.com/2016/04/25/humpback-whale-dies-southern-belize/ Gill nets fishing in Belize occurs primarily within the inner Barrier Reef lagoon. Belize has regulations for allowed total length of one gill net being 100 meters and not more than 300 meters allowed per vessel provided that nets are not joined together. This particular case with the Humpback whale, it was reported couple months earlier that the mammal was stranded in Puerto Barrios Area. The usage of gill nets in Belize is primarily for artisanal fishing and there is no way that whales use the inner Barrier Reef lagoon as their migratory route. https://whalesandmarinefauna.wordpress.com/2016/04/25/humpback-whale-dies-in-southern-belize/</p>	ICCAT, A total of 58 individual shark fishing licenses were issued to fishers in 2016. Also 5 shark export permits were issued. Exports mostly to Honduras and Guatemala. No exports to the U.S.A. from the national fishery. The fishing gear is primarily gill nets and long lines. Fishing for shark is seasonal and is regulated under the Fisheries Act. Closed season from August 1st to October 31st and protected species include the <i>Ginglymostoma cirratum</i> ; <i>Rhincondon typus</i> ; CITES regulated species are <i>Sphyrna lewini</i> and <i>Sphyrna mokarran</i> . Equivalent to Atlantic Ocean, Caribbean, Gulf of Mexico large pelagics longline* Category 1 Fishery
Finfish, snapper, grouper shrimp	gillnet trawl	561 8	not applicable none provided	not applicable none provided	Territorial Waters	manatee	1 to 7 per year, self reporting none provided	C/O N/I, A/G		<p>Reeves 2013 - http://www.int-res.com/articles/esr_oa/n020p071.pdf Kiszka (2014) - http://www.car-spaw-rac.org/IMG/pdf/manateebycatch_finalversion.pdf U.S. Trade Data</p>	
Sharks, tuna	longline	7	not applicable	not applicable	Inter-American Tropical Tuna Commission convention Area	none provided	none provided	A/G	IATTC	U.S. trade data	
tuna (yellowfin, bigeye, albacore) swordfish	purse seine	8	not applicable	not applicable	International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G	ICCAT	U.S. trade data	
tuna (yellowfin, bigeye, albacore) swordfish	longline	12	not applicable	not applicable	International Convention for the Conservation of Atlantic Tuna Convention Area	none documented	none document	A/G	ICCAT	U.S. trade data	
Sardines, Sardinella, Mackerel and Horse Mackerel	trawl	15	not applicable	not applicable	EEZs of Namibia, Mauritania, Trista de Cunha	none provided	none provided	A/G		U.S. trade data	

Benin

Exempt Fisheries											
coral	hand collection	none provided	none provided	none provided	EEZ of Benin	none provided	none provided	N/I		U.S. Trade data	
Export Fisheries with No Information											
crustaceans, lobster	pots, traps	none provided	none provided	none provided	EEZ of Benin	none provided	none provided	N/I		U.S. Trade data USAID MCS profile - http://imcsnet.org/imcs/docs/benin_fishery_profile_apr08.pdf	
shrimp, prawn	trawl	2	none provided	none provided	EEZ of Benin	none provided	none provided	N/I		USAID MCS profile - http://imcsnet.org/imcs/docs/benin_fishery_profile_apr08.pdf	
cuttlefish, squid	none provided	none provided	none provided	none provided	EEZ of Benin	none provided	none provided	N/I			

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
demersal species, such as barracuda, croaker, and snapper	trawl	<10	none provided	none provided	EEZ of Benin	none provided	none provided	N/I		USAID MCS profile - http://imcsnet.org/imcs/docs/benin_fishery_profile_apr08.pdf	
demersal species, such as barracuda, croaker, and snapper	longline, purse seine, beach seine	52537	none provided	none provided	EEZ of Benin	none provided	none provided	N/I		USAID MCS profile - http://imcsnet.org/imcs/docs/benin_fishery_profile_apr08.pdf	
tuna, swordfish	purse seine	15	not applicable	not applicable	EEZ of Benin	none provided	none provided	N/I		U.S. trade data	
pelagic fish species	trawl, seine	none provided	none provided	none provided	EEZ of Benin	none provided	none provided	N/I		U.S. trade data	

Brazil

Exempt Fisheries											
Tuna - bigeye, albacore, yellowfin, swordfish, shark	handline (bottom)	106 - 149	not applicable	not applicable	Territorial Sea - NE (Maranhão to Bahia)	none provided	none provided	A/G		Species from Brazil fisheries list; tuna = ICCAT; Hand line is exempt gear.	
Mackerel, including Jack, Horse,	handline (bottom)	106 - 149	not applicable	not applicable	Territorial Sea - NE (Maranhão to Bahia)	none provided	none provided	A/G		Species from Brazil fisheries list; Hand line is exempt gear.	
Grouper	handline (bottom)	22	not applicable	not applicable	Territorial Sea - SOUTHEAST/Exclusive Economic Zone - SOUTHEAST	none provided	none provided	A/G		Species from Brazil fisheries list; Hand line is exempt gear.	
Southern red snapper, croaker	handline (bottom)	13 - 149	not applicable	not applicable	Territorial Sea - NE (Maranhão to Bahia)	none provided	none provided	A/G		Species from Brazil fisheries list; Hand line is exempt gear.	
Ornamental fish	dive with aids	11 - 26	not applicable	not applicable	Territorial Sea	none provided	none provided	A/G		Species from Brazil fisheries list	
Export Fisheries											
Tuna - bigeye, albacore, yellowfin, swordfish, shark	longline (Surface)	57 - 131	not applicable	not applicable	International Waters/Territorial Sea/Exclusive Economic Zone	long-finned pilot whale, Risso's dolphin, false killer whale, killer whale	none provided	A/G		Werner et al 2015; Hamer et al 2012; Species from Brazil fisheries list; tuna = ICCAT	
Catfish, Guri Sea, Madamango Sea, Thomas Sea, Coco Sea, White Sea	longline (bottom)	27 - 91	not applicable	not applicable	International Waters/Territorial Sea/Exclusive Economic Zone	none provided	none provided	A/G		U.S. trade data	
Catfish, Madamango Sea, Thomas Sea, Coco Sea, Gafftopsail	single and pair trawl	7 - 13	not applicable	not applicable	Territorial Sea - NORTH and EEZ - NORTH (Polygon outlined in Annex I to Ministry of Fishing and Aquaculture and Ministry of the Environment Interministerial Normative Instruction No. 02/2010)	none provided	none provided	A/G		U.S. trade data	
shrimp - red-spotted	single and double rig bottom trawl	343 - 367	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Shrimp - red-spotted, Atlantic seabob, southern brown shrimp	single and double rig bottom trawl	55 - 82	not applicable	not applicable	Territorial Sea - N/NE (from Maranhão to Piauí)/Territorial Sea - NORTH/Exclusive Economic Zone - N/NE (from Maranhão to Piauí)/Exclusive Economic Zone - NORTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Shrimp - red-spotted, Atlantic seabob, southern brown shrimp	single and double rig bottom trawl	33 - 94	not applicable	not applicable	Territorial Sea - N/NE (from Amapá to Piauí)/Exclusive Economic Zone - N/NE (from Amapá to Piauí)	none provided	none provided	A/G		Species from Brazil fisheries list	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Shrimp - red-spotted, Atlantic seabob, southern brown shrimp	single and double rig bottom trawl	296 - 676	not applicable	not applicable	Territorial Sea - NE (from Ceará to Bahia)	none provided	none provided	A/G		Species from Brazil fisheries list	
Atlantic seabob	single and double rig bottom trawl	2283 - 2824	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Atlantic seabob	single and double rig bottom trawl	8	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Mackerel, including Chum, Jack, Horse,	purse seine/surrounding net (Rede de Cerco)	125 - 215	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Dourada or Gilded catfish	gillnet (espera)	21 - 48	not applicable	not applicable	Amazon Basin Estuaries/Territorial Sea - NORTH	Amazon river dolphin, tucuxi	67	C/O		paper: "Freshwater dolphin/fisheries interaction in the Central Amazon (Brazil), 1996" and 1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans = http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-89131998000300004	Species from Brazil fisheries list
Dourada or Gilded catfish	bottom longline	83 - 196	not applicable	not applicable	Territorial Sea - NORTH (Amapá to Pará)/Exclusive Economic Zone - NORTH (Amapá to Pará)	none provided	none provided	A/G		Species from Brazil fisheries list	
Dourada or Gilded catfish	single or pair bottom trawl	7 - 13	not applicable	not applicable	Territorial Sea - NORTH and EEZ - NORTH (Polygon outlined in Annex I to Ministry of Fishing and Aquaculture and Ministry of the Environment Interministerial Normative Instruction No. 02/2010)	none provided	none provided	A/G		Species from Brazil fisheries list	
Swordfish	longline, surface	Nov-95	not applicable	not applicable	International Waters/Territorial Sea/Exclusive Economic Zone	none provided	none provided	A/G		Species from Brazil fisheries list	
Grouper	bottom longline	27 - 91	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	

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Lobster - spiny, rock, and Caribbean spiny, crab, other crustaceans	trap	638 - 1077	not applicable	not applicable	Territorial Sea - N/NE/SE (from Amapá to Espírito Santo)/Exclusive Economic Zone - N/NE/SE (from Amapá to Espírito Santo)	none provided	none provided	A/G		Species from Brazil fisheries list	
Lobster - spiny, rock, and Caribbean spiny, crab, other crustaceans	trap	210 - 327	not applicable	not applicable	Territorial Sea - N/NE/SE (from Amapá to Espírito Santo)/Exclusive Economic Zone - N/NE/SE (from Amapá to Espírito Santo)	none provided	none provided	A/G		Species from Brazil fisheries list	
Lobster - spiny, rock, and Caribbean spiny, crab, other crustaceans	trap	1115 - 1501	not applicable	not applicable	Territorial Sea - N/NE/SE (from Amapá to Espírito Santo)/Exclusive Economic Zone - N/NE/SE (from Amapá to Espírito Santo)	none provided	none provided	A/G		Species from Brazil fisheries list	
Lobster - spiny, rock, and Caribbean spiny, crab, other crustaceans	trap	79 - 108	not applicable	not applicable	Territorial Sea - N/NE/SE (from Amapá to Espírito Santo)/Exclusive Economic Zone - N/NE/SE (from Amapá to Espírito Santo)	none provided	none provided	A/G		Species from Brazil fisheries list	
Southern red snapper, croaker	longline	5 - 9	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Southern red snapper, croaker	longline, cages	21	not applicable	not applicable	Territorial Sea - N/NE (from Amapá to Alagoas)/Exclusive Economic Zone - N/NE (Amapá to Alagoas)	none provided	none provided	A/G		Species from Brazil fisheries list	
Southern red snapper, croaker	longline, cages	39	not applicable	not applicable	Territorial Sea - N/NE (from Amapá to Alagoas)/Exclusive Economic Zone - N/NE (Amapá to Alagoas)	none provided	none provided	A/G		Species from Brazil fisheries list	
Southern red snapper, croaker	longline, cages	1	not applicable	not applicable	Territorial Sea - N/NE (from Amapá to Alagoas)/Exclusive Economic Zone - N/NE (Amapá to Alagoas)	none provided	none provided	A/G		Species from Brazil fisheries list	
Blackfin goosefish	gillnet (oceanic bottom)	1 - 3	not applicable	not applicable	Exclusive Economic Zone - SOUTHEAST (depths of over 820 ft.)/Exclusive Economic Zone - SOUTH (depths of over 820 ft.)	melon-head whale	none provided	A/G		IWC 2014; Species from Brazil fisheries list	
snapper, gray, weakfish smooth and king, croaker	single or pair bottom trawl	7 - 13	not applicable	not applicable	Territorial Sea - NORTH and EEZ - NORTH (Polygon outlined in Annex I to Ministry of Fishing and Aquaculture and Ministry of the Environment Interministerial Normative Instruction No. 02/2010)	none provided	none provided	A/G		Species from Brazil fisheries list	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
snapper, gray, croaker	gillnet, bottom	250 - 886	not applicable	not applicable	Territorial Sea - N/NE (Amapá to Maranhão)/Exclusive Economic Zone - N/NE (Amapá to Maranhão)	Clymene dolphin, Franciscana dolphin, melon-head whale	none provided	A/G		IWC 2014; Species from Brazil fisheries list	
King weakfish, croaker	gillnet, bottom	74 - 377	not applicable	not applicable	Territorial Sea - N/NE (Amapá to Maranhão)/Exclusive Economic Zone - N/NE (Amapá to Maranhão)	Clymene dolphin, Franciscana dolphin, melon-head whale	none provided	A/G		IWC 2014; Species from Brazil fisheries list	
Stripped weakfish, croaker	gillnet (espera)	23 - 53	not applicable	not applicable	Coast of the State of Rio Grande do Sul	Clymene dolphin, Franciscana dolphin, melon-head whale	none provided	A/G		IWC 2014; Species from Brazil fisheries list	
Octopus	trap, pot	0	not applicable	not applicable	Territorial Sea - NORTHEAST/Territorial Sea - NORTH/Exclusive Economic Zone - NORTHEAST/Exclusive Economic Zone - NORTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Octopus	trap, pot	10	not applicable	not applicable	Territorial Sea - SE/S (from Espírito Santo to Paraná)/Exclusive Economic Zone - SE/S (from Espírito Santo to Paraná)	none provided	none provided	A/G		Species from Brazil fisheries list	
Octopus	trap, pot	5	not applicable	not applicable	Territorial Sea - S (from Santa Catarina to Rio Grande do Sul)/Exclusive Economic Zone - S (from Santa Catarina to Rio Grande do Sul)	none provided	none provided	A/G		Species from Brazil fisheries list	
Sardinella, brisling, sprat	purse seine/surrounding net (Rede de Cerco)	44	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Sardinella, brisling, sprat	purse seine/surrounding net (Rede de Cerco)	120	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH/Exclusive Economic Zone - SOUTHEAST/Exclusive Economic Zone - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Sardinella, brisling, sprat	purse seine/surrounding net (Rede de Cerco)	2	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH	none provided	none provided	A/G		Species from Brazil fisheries list	
Mullet	gillnet (espera)	406	not applicable	not applicable	Territorial Sea - SOUTHEAST/Territorial Sea - SOUTH	Clymene dolphin, Franciscana dolphin, melon-head whale	none provided	A/G		IWC 2014; Species from Brazil fisheries list	
freshwater fish, carp, eels, snakehead	gillnet	none provided	not applicable	not applicable	Amazon	Amazon river dolphin, tucuxi	67	C/O		paper: "Freshwater dolphin/fisheries interaction in the Central Amazon (Brazil), 1996" and 1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans = http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-89131998000300004	from MSRA list; Cetacean Bycatch Tech Memo states 1,050/yr. are killed at the mouth of the Amazon.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
none provided	gillnet	none provided	not applicable	not applicable	EEZ - Areembepe, Camaçari-BA	Clymene Dolphin	1	C/O	IWC 2010; from MSRA list		
none provided	gillnet	none provided	not applicable	not applicable	FAO Area 41	franciscana dolphin	none provided	C/O		1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans Cetacean Bycatch Tech Memo	
shark	trawl	none provided	none provided	none provided	none provided	cetaceans	none provided	A/G		1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans	Seafood species/product from US trade data; Cetacean Bycatch Tech Memo states that marine mammals are taken in shark and other fisheries using inshore gillnet, trawls & seines.
shark	gillnet	none provided	none provided	none provided	none provided	cetaceans humpback, sperm, dwarf sperm, pilot whales; spinner, Atlantic spotted, common, striped, Clymene, and bottlenose dolphin.	none provided	A/G		1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans	Seafood species/product from US trade data; Cetacean Bycatch Tech Memo states that marine mammals are taken in shark and other fisheries using inshore gillnet, trawls & seines.
shark	driftnet	none provided	not applicable	not applicable	FAO Area 41		none provided	C/O	U.S. trade data		Seafood species/product from US trade data; Cetacean Bycatch Tech Memo states that marine mammals are taken in shark and other fisheries using inshore gillnet, trawls & seines.
shark	seine	none provided	none provided	none provided	none provided	cetaceans	none provided	A/G		1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans	Seafood species/product from US trade data; Cetacean Bycatch Tech Memo states that marine mammals are taken in shark and other fisheries using inshore gillnet, trawls & seines.
shark	longline	none provided	none provided	none provided	none provided	cetaceans	none provided	A/G		1998 paper: Fishing Activity in Northern Rio de Janeiro State (Brazil) and its Relation with Small Cetaceans	Seafood species/product from US trade data; Cetacean Bycatch Tech Memo states that marine mammals are taken in shark and other fisheries using inshore gillnet, trawls & seines.

Export Fisheries with No Information											
salmon	none provided	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I			from Brazil export product list: farmed?
butterfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	
caviar, roe	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	
cobia	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	
flatfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	
groundfish, including ocean perch	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	
marine fish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	
sea cucumbers	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Seafood species/product from U.S. Trade data.	

British Virgin Islands

Export Fisheries with No Information											
Marine Fish	None provided	N/I		U.S. trade data							
Toothfish	None provided	N/I		U.S. trade data							
Snapper	None provided	N/I		U.S. trade data							
squid	None provided	N/I		U.S. trade data							

Brunei

Exempt Fisheries											
shrimp (blue shrimp)	offshore cage aquaculture	1 company	Golden Corporation	Not applicable	None provided	None provided	None provided			U.S. trade data	
Export Fisheries											
tuna	purse seine	2	Not applicable	Not applicable	deep sea fishing zone	None documented	None documented	A/G		U.S. trade data	Note: Fishery has not commenced, product will be exported to another nation for processing and product will then be exported to the U.S.
tuna	purse seine	1	Not applicable	Not applicable	deep sea fishing zone	None documented	None documented	A/G		U.S. trade data	Note: Fishery has not commenced, product will be exported to another nation for processing and product will then be exported to the U.S.

Bulgaria

Export Fisheries											
Topshell/Rapana whelk	trawl, beam, otter	246 vessels 400-420 participants	Not applicable	Not applicable	Black Sea (FAO fishing area 37.4.2) April through November	Marine mammals in area	None reported in logbooks	C/O			

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Turbot, spiny dogfish, sturgeons	large mesh nets	None provided	Not applicable	Not applicable	Black Sea	Harbor porpoises, common dolphins	None provided		Y	ACCOBAMS, General Fisheries Commission for the Mediterranean, 2008; GFCM Working Group on Bycatch 2008	Anecdotally reported bycatch through strandings in ACCOBAMS area. No standardized data collection
Export Fisheries with No Information											
Sea cucumber	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I			
Cameroon											
Export Fisheries with No Information											
groundfish (cod, cusk, haddock, hake, pollock, sole)	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I		U.S. Trade data	
mackerel, herring	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I		U.S. Trade data	
snail	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I		U.S. Trade data	
none provided	gillnet	None provided	Not applicable	Not applicable	FAO Area 34 - coastal Cameroon	Atlantic humpback dolphin, humpback whale, sperm whale, striped dolphin, common dolphin unidentified Odontocete, dugong	None provided	N/I		NOAA Cetacean Bycatch Tech Memo. Ayissi, Segniagbeto, and Van Waerebeek (2014) - https://www.hindawi.com/journals/ism/2014/819827/ Convention on Migratory Species report (2011) REPORT ON THE EXPLORATORY SURVEY OF CETACEANS AND THEIR STATUS IN CAMEROON. Werner (2014) Mitigating bycatch and depredation of marine mammals in longline fisheries.	
none provided	longline	None provided	Not applicable	Not applicable	Cameroon region	none provided	91	N/I		U.S. Trade data	
mussels, oysters	None provided	None provided	none provided	none provided	none provided	None provided	None provided	N/I		U.S. Trade data	
crawfish	None provided	None provided	none provided	none provided	none provided	None provided	None provided	N/I		U.S. Trade data	
crustaceans	None provided	None provided	none provided	none provided	none provided	None provided	None provided	N/I		U.S. Trade data	
shrimp	None provided	None provided	none provided	none provided	none provided	None provided	None provided	N/I		U.S. Trade data	
Canada											
Exempt Fisheries											
Alewife (Gaspereau)	gillnet set	Non-vessel based	Not applicable	Not applicable	Maritimes Region (NS, NB)	none documented	none documented	A/G		U.S. trade data	This is an estuarial and near shore and there is no marine mammal interaction
Alewife (Gaspereau)	weir, trap net	Non-vessel based	Not applicable	Not applicable	Maritimes Region (NS, NB)	none documented	none documented	A/G,		U.S. trade data	inland waters and above the reversing falls of the Saint John River - no marine mammal interactions
Alewife (Gaspereau)	weir, trap net	36	Not applicable	Not applicable	Gulf Region (ENB,NS,PEI)	none documented	none documented	A/G,		U.S. trade data	Inland waters, no marine mammal interactions
Atlantic cod	handline	116	Not applicable	Not applicable	Maritimes Region (4X5Y)	none documented	none documented	A/G		U.S. trade data	handline – gear type unlikely to have any interactions Marine mammal bycatch indicated, no data provided
Atlantic cod	handline (baited)	438	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I			
Atlantic cod	hand line (baited)	417	Not applicable	Not applicable	Gulf Region - 4RS3Pn	None provided	None provided	A/G, N/I		Canada Data	
Northern cod	handline	1722	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KL)	none documented	none provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Capelin	weir, trap net	370	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KLPs)	none documented	none documented	C/O, A/G		U.S. trade data	Co-occurrence with humpback whales, Gulf of Maine herring and Atlantic mackerel stop seine/weir >1 Harbor porpoise, GME/BF Harbor seal, WNA Minke whale, Canadian east coast White-sided dolphin, WNA
Char	handline	1	Not applicable	Not applicable	Newfoundland and Labrador Region (1-14)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Clam - Offshore Arctic Surfclam	rakes and tongs	3	Not applicable	Not applicable	Newfoundland and Labrador Region - Maritimes	None provided	None provided	A/G, N/I		Canada Data	
Clam – Offshore Arctic Surfclam	dredge (boat)	3	Not applicable	Not applicable	Newfoundland and Labrador Region - Maritimes Region	None provided	None provided	A/G, N/I		Canada Data	
clam	rakes, tongs	None provided	Not applicable	Not applicable	Maritimes Region	none documented	none documented	A/G		U.S. trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
clam	rakes, tongs, hand-held tools	56	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI)	none documented	none documented	A/G		U.S. trade data	
clams	hand-held tools	Non-vessel based	Not applicable	Not applicable	Pacific Region (clam area A,B,C,D,E,F,G, F27)	none documented	none documented	A/G		U.S. trade data	
eel	gillnet, drift	70	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI)	none documented	none documented	A/G, C/O		U.S. trade data	inland waters - no marine mammal interactions
eel	push trawl	Non-vessel based	Not applicable	Not applicable	Maritimes Region	none documented	none documented	A/G		U.S. trade data	possible freshwater fishery?
eel	longline	Non-vessel based	Not applicable	Not applicable	Maritimes Region	none documented	none documented	A/G		U.S. trade data	
eel	fyke net, pot	20	Not applicable	Not applicable	Newfoundland and Labrador Region (3-14)	none documented	none documented	A/G		U.S. trade data	
flounder, Winter Flounder	stationary lift nets	38	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	handline (baited)	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
herring	weir, trap net	47	Not applicable	Not applicable	Newfoundland and Labrador Region (2,3,4R)	none documented	none documented	A/G, C/O		U.S. trade data	Gulf of Maine herring and Atlantic mackerel stop seine/weir >1 Harbor porpoise, GME/BF Harbor seal, WNA Minke whale, Canadian east coast White-sided dolphin, WNA
herring	weir, trap net	None provided	Not applicable	Not applicable	Maritime Region (Bay of Fundy)	none documented	none documented	A/G, C/O		U.S. trade data	Gulf of Maine herring and Atlantic mackerel stop seine/weir >1 Harbor porpoise, GME/BF Harbor seal, WNA Minke whale, Canadian east coast White-sided dolphin, WNA
Herring	handline (baited)	490	Not applicable	Not applicable	Gulf Region - 4TVn – Spring	None provided	None provided	A/G, N/I		Canada Data	
Herring	handline (baited)	490	Not applicable	Not applicable	Maritimes Region - 4TVn – Fall	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	handline (baited)	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Pollock	handline	73	Not applicable	Not applicable	Maritimes Region (4VWX, 5Zc)	none documented	none documented	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Rockfish	hook and line	9	Not applicable	Not applicable	Pacific Region (Areas 13 to 20, 28, 29 and Subareas 12-1 to 12-13, 12-15 to 12-48)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Rockfish	hook and line	39	Not applicable	Not applicable	Pacific Region (Areas 1 to 11, 21, 23 to 27, 101 to 111, 121, 123 to 127, 130, 142 and Subarea 12-14)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Sea cucumber	drag/dredge	18	Not applicable	Not applicable	Newfoundland and Labrador (3 Ps)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided, Gulf of Maine sea urchin dredge unknown None documented
Shad	weir, trap net	Non-vessel based	Not applicable	Not applicable	Maritimes Region (NS, NB)	none documented	none documented	A/G, C/O		U.S. trade data	inland waters and above the reversing falls of the Saint John River (freshwater)
Shad	gillnet set	None provided	Not applicable	Not applicable	Gulf Region (ENB)	none documented	none documented	A/G		U.S. trade data	inland waters - no marine mammal interactions

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Shad	gillnet set	Non-vessel based	Not applicable	Not applicable	Maritimes Region (NS, NB)	none documented	none documented	A/G		U.S. trade data	estuary and near shore - no marine mammal interactions
Smelt	weir, trap net	17	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI)	none documented	none documented	A/G, C/O		U.S. trade data	inland waters - no marine mammal interactions
Smelt	weir, trap net	Non-vessel based	Not applicable	Not applicable	Maritimes Region (NS, NB)	none documented	none documented	A/G, C/O		U.S. trade data	The weir fishery is estuarial or near shore – the majority fished in Bras d’Or lakes and Saint John River (freshwater) – should be exempt
Smelt	gillnet set	17	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI)	None provided	none provided	A/G		U.S. trade data	inland waters - no marine mammal interactions
Sturgeon, Atlantic	gillnet	Non-vessel based	Not applicable	Not applicable	Maritimes Region, tidal waters of the Sant	none documented	none documented	A/G		U.S. trade data	fishery occurs above the reversing falls on the Saint John River (freshwater) – should be exempt, Marine mammal bycatch indicated, no data provided
salmon (chinook)	troll	118	Not applicable	Not applicable	Pacific Region (G - Areas 11, 20 to 27, 111, 121, 123 to 127 and Subareas 12-5 to 12-16)	None provided	None provided	A/G		U.S. trade data	analogous to Alaska salmon troll and CA/OR/WA salmon troll, Category III
salmon (chinook)	troll	239	Not applicable	Not applicable	Pacific Region (F - Areas 1 to 10, 101 to 110, 130 and 142)	None provided	None provided	A/G		U.S. trade data	analogous to Alaska salmon troll and CA/OR/WA salmon troll, Category III
salmon (chinook)	troll	77	Not applicable	Not applicable	Pacific Region (H - Areas 12 to 19, 28 and 29)	None provided	None provided	P, A/G		U.S. trade data	analogous to Alaska salmon troll and CA/OR/WA salmon troll, Category III
swordfish	harpoon, spear	92	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	none documented	none documented	A/G		U.S. trade data	
tuna	harpoon, spear, angling, electric harpoon	54	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3)	none documented	none documented	A/G		U.S. trade data	
Tuna - Bluefin	rod and reel (chumming)	562	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Tuna - Bluefin	harpoon and spear	562	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Tuna - Bluefin	electric harpoon	562	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Tuna – Bluefin	angling	562	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Tuna - Others	harpoon and spear	54	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Tuna - Others	electric harpoon	54	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna – Others	angling	54	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
tuna, albacore	handline, jig	164	Not applicable	Not applicable	Pacific Region (Canadian EEZ and high seas)	None provided	None provided	A/G		U.S. trade data	
tuna, albacore	handline, jig	43	Not applicable	Not applicable	Pacific Region (U.S. EEZ)	none documented	None provided	A/G		U.S. trade data	
marine plants	rakes, tongs, hand-held tools	Non-vessel based	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI), Maritimes Region (most active SWNB and SWNS)	none documented	none documented	A/G		U.S. trade data	
Marine worms	hand tools	Non-vessel based	Not applicable	Not applicable	Maritimes Region (SWNG, SWNS, Bay of Fundy, Southwest Nova Scotia, Areas 1-6)	none documented	none documented	A/G		U.S. trade data	
mussels	hand-held tools	2	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI)	none documented	none documented	A/G		U.S. trade data	
oysters (commercial, relay)	rakes, tongs, hand-held tools	38	Not applicable	Not applicable	Gulf Region (ENB, NS, PEI)	none documented	none documented	A/G		U.S. trade data	
quahogs	hand-held tools	2-16	Not applicable	Not applicable	Gulf Region (ENB, PEI)	none documented	none documented	A/G		U.S. trade data	
scallops	hand-held tools	1-21	Not applicable	Not applicable	Quebec Region (15-20)	none documented	none documented	A/G		U.S. trade data	
Oysters	hand-held tools	Non-vessel based	Not applicable	Not applicable	Pacific Region (WCVI and East Coast Vancouver Island (ECVI)	none documented	none documented	A/G		U.S. trade data	
hagfish	barrel traps	1-3	Not applicable	Not applicable	Maritimes Region (4VW, 4WX, 4WX5Z, 4X)	none documented	none documented	A/G		U.S. trade data	
sea urchins	diving	13-24	Not applicable	Not applicable	(ENS, SWNS, SWNB LFA 36 and 38), Newfoundland and Labrador Region	none documented	none documented	A/G		U.S. trade data	
sea urchins (red, green)	diving		Not applicable	Not applicable	Pacific Region (North and South Coast), Coastwide	none documented	none documented	A/G		U.S. trade data	
geoduck, horseclam	diving		Not applicable	Not applicable	Pacific Region (North Coast (N), West Coast Vancouver Island (WCVI) and inside Vancouver Island (Gulf))	none documented	none documented	A/G		U.S. trade data	
sea cucumber	diving		Not applicable	Not applicable	Pacific Region (C, G, P, and W)	none documented	none documented	A/G		U.S. trade data	
quahogs	drag/dredge	6	Not applicable	Not applicable	Maritimes Region	none documented	none documented	A/G		U.S. trade data	

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scallop	drag/dredge	149	Not applicable	Not applicable	Gulf Region (21A,B,C - 24)	none documented	none documented	A/G		U.S. trade data	
scallop	drag/dredge	336	Not applicable	Not applicable	Maritimes Region (SFA 28, 29)	none documented	none documented	A/G		U.S. trade data	
scallop	drag/dredge	44	Not applicable	Not applicable	Newfoundland and Labrador Region (LFA 13, 14, 3LNO, 3Ps)	none documented	none documented	A/G		U.S. trade data	
scallops	drag/dredge	31	Not applicable	Not applicable	Quebec Region (15-20)	none documented	none documented	A/G		U.S. trade data	
sea cucumber	drag/dredge	6	Not applicable	Not applicable	Maritimes Region (Southwest New Brunswick, Scotian Shelf)	none documented	none documented	A/G		U.S. trade data	
sea urchin	drag/dredge	13	Not applicable	Not applicable	Maritimes Region (SWNB LFA 36, 38)	none documented	none documented	A/G		U.S. trade data	
special use	hoop net	8	Not applicable	Not applicable	Pacific Region (3,4,5,13, to 19, 29)	none documented	none documented	A/G		U.S. trade data	
Oysters	aquaculture, raft, bags, line, predator netting	256	None provided	Not applicable	British Columbia	none documented	none documented			Mandatory reporting, audit of facility logbook and site inspection	
Mussels	aquaculture, raft, ropes, line	38	None provided	Not applicable	British Columbia	none documented	none documented			Mandatory reporting, audit of facility logbook and site inspection	
Clams	aquaculture, raft, trays, predator netting	121	None provided	Not applicable	British Columbia	none documented	none documented			Mandatory reporting, audit of facility logbook and site inspection	
Scallops	aquaculture raft, trays, longline	18	None provided	Not applicable	British Columbia	none documented	none documented			Mandatory reporting, audit of facility logbook and site inspection	
marine plants	aquaculture, tanks and raft	1	None provided	Not applicable	British Columbia	none documented	none documented			U.S. trade data	absence of marine mammal mortality
Oyster, Clam (softshell and quahog), and Scallop ^A	aquaculture, N/A spread on bottom	790	None provided	Not applicable	Prince Edward Island	none documented	none documented			U.S. trade data	absence of marine mammal mortality
Oyster	aquaculture, Floating Bags	247	None provided	Not applicable	Prince Edward Island	none documented	none documented			U.S. trade data	absence of marine mammal mortality
Mussel	aquaculture, Socks	320	None provided	Not applicable	Prince Edward Island	none documented	none documented			U.S. trade data	absence of marine mammal mortality
Oyster -Spat	Aquaculture Lines, Chinese Hats, PVC pipe, etc.	279	None provided	Not applicable	Prince Edward Island	none documented	none documented			U.S. trade data	absence of marine mammal mortality
Mussel-Spat	Aquaculture, Collector lines	63	None provided	Not applicable	Prince Edward Island	none documented	none documented			U.S. trade data	absence of marine mammal mortality

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
oysters	aquaculture, bottom, off-bottom, suspension	433	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
quahogs	aquaculture, bottom, off-bottom	94	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
bar clam	aquaculture, bottom, off-bottom	68	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
clam, soft-shell	aquaculture, bottom, off-bottom	39	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
mussels, blue	aquaculture, suspended line	29	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
mussels, blue	aquaculture, integrated multitrophic	1	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
scallop, bay	aquaculture, bottom, off-bottom, suspension	36	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
scallop, deep sea	aquaculture, bottom, off-bottom, suspension	18	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
sea urchin	aquaculture, bottom, off-bottom	1	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
scallop, giant	aquaculture, bottom, off-bottom	1	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
sea cucumber	aquaculture, bottom, off-bottom	1	None provided	Not applicable	New Brunswick	none documented	none documented			U.S. trade data	absence of marine mammal mortality
American oyster	aquaculture, no gear	99	None provided	Not applicable	Nova Scotia	None provided	None provided			U.S. trade data	absence of marine mammal mortality
Bay quahog	aquaculture, no gear	23	None provided	Not applicable	Nova Scotia	None provided	None provided			U.S. trade data	absence of marine mammal mortality
Soft Shell Clams	aquaculture, no gear	16	None provided	Not applicable	Nova Scotia	None provided	None provided			U.S. trade data	absence of marine mammal mortality
Bay scallop	aquaculture, no gear	6	None provided	Not applicable	Nova Scotia	None provided	None provided			U.S. trade data	absence of marine mammal mortality
Bar clams	aquaculture, no gear	2	None provided	Not applicable	Nova Scotia	None provided	None provided			U.S. trade data	absence of marine mammal mortality
Sea Urchin	aquaculture, on bottom	60**	None provided	Not applicable	Québec	none documented	none documented	A/G		Annual Sales Report	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Seaweed	aquaculture, sectors	60**	None provided	Not applicable	Québec	None provided	None provided	N/I		Annual Sales Report	* Indicates that two species are grown at the same facilities
Scallops	aquaculture, sectors	60**	None provided	Not applicable	Québec	None provided	None provided	N/I		Annual Sales Report	**60 facilities grow shellfish and seaweed in Quebec
Oysters	aquaculture, sectors	60**	None provided	Not applicable	Québec	None provided	None provided	N/I		Annual Sales Report	
Mussels	aquaculture, sectors	60**	None provided	Not applicable	Québec	None provided	None provided	N/I		Annual Sales Report	
Clams	aquaculture, on bottom	60**	None provided	Not applicable	Québec	None provided	None provided	N/I		Annual Sales Report	
American Oyster	aquaculture, suspended lines	56	None provided	Not applicable	Nova Scotia	none documented	none documented	N/I, A/G		U.S. trade data	
Bay quahog	aquaculture, suspended lines	1	None provided	Not applicable	Nova Scotia	none documented	none documented	N/I, A/G		U.S. trade data	
Blue Mussel	aquaculture, suspended lines	79	None provided	Not applicable	Nova Scotia	none documented	none documented	N/I, A/G		U.S. trade data	
kelp, edible	aquaculture, integrated multitrophic	6	None provided	Not applicable	New Brunswick	none documented	none documented	C/O, A/G		U.S. trade data	
kelp, winged	aquaculture, integrated multitrophic	6	None provided	Not applicable	New Brunswick	none documented	none documented	C/O, A/G		U.S. trade data	
kelp, horsetail	aquaculture, integrated multitrophic	6	None provided	Not applicable	New Brunswick	none documented	none documented	C/O, A/G		U.S. trade data	
salmon, Atlantic	aquaculture, marine cage	30	None provided	Not applicable	Nova Scotia	None provided	None provided	N/I, A/G		U.S. trade data	
Rainbow Trout	aquaculture, marine cage	27	None provided	Not applicable	Nova Scotia	None provided	None provided	N/I, A/G		U.S. trade data	
Bay scallop	aquaculture, suspended lines	14	None provided	Not applicable	Nova Scotia	None provided	None provided	N/I, A/G		U.S. trade data	
Giant sea scallop	aquaculture, suspended lines	42	None provided	Not applicable	Nova Scotia	None provided	None provided	N/I, A/G		U.S. trade data	
blue mussel	aquaculture, socking beach and bar seine	53	None provided	Not applicable	Newfoundland and Labrador	none documented	none documented	N/I, A/G		U.S. trade data	
Capelin	seine	54	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	N/I, A/G		Canada Data	
Flounder, Witch flounder	Danish seine	3	Not applicable	Not applicable	Labrador Region - 3Ps	None provided	None provided	A/G, N/I		Canada Data	
Flounder, Witch flounder	Danish seine	8	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	hand line (baited)	1272	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	Danish seine	441	Not applicable	Not applicable	Maritimes Region - 3NOPS, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	mechanized jig	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	jig	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Plaice, American	Danish seine	2	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I		Canada Data	
Plaice, American	handline	1	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I		Canada Data	
Export Fisheries											
baitfish	seine	20	Not applicable	Not applicable	Pacific Region (3, 4, 5, 13, 14, 17, 18, 29)	harbor seal, sea lion	none provided	P, A/G		U.S. trade data	
Atlantic cod	trawl, bottom, otter	116	Not applicable	Not applicable	Maritimes Region (4X5Y)	Seals (not specified)	none provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Atlantic cod	gillnet, set	116	Not applicable	Not applicable	Maritimes Region (4X5Y)	None provided	none provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Atlantic cod	longline	116	Not applicable	Not applicable	Maritimes Region (4X5Y)	Seals (not specified)	none provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Atlantic cod	trawl, otter	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Ps)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Atlantic cod	trap net	438	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I			
Atlantic cod	rectangular trap	438	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I			

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Atlantic cod	pot	438	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I			
Atlantic cod	longline	438	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I			
Atlantic cod	gillnet	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (4R3Pn)	humpback whale	None provided	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Atlantic cod	gillnet	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Ps)	humpback whale	None provided	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Atlantic cod	longline	417	Not applicable	Not applicable	Gulf Region - 4RS3Pn	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	Scottish seine	26	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	longline	26	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	bottom otter trawl (stern)	26	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	longline	23	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	gillnet (set or fixed)	23	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	bottom otter trawl (stern)	23	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	longline	32	Not applicable	Not applicable	Maritimes Region - 4Vn	None provided	None provided	A/G, N/I	Canada Data		
Atlantic cod	bottom otter trawl (stern)	32	Not applicable	Not applicable	Maritimes Region - 4Vn	None provided	None provided	A/G, N/I	Canada Data		
Northern cod	pot	1722	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KL)	harbor seal	1	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Northern cod	gillnet set	1722	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KL)	humpback whale, seal	none provided	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Northern cod	longline	1722	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KL)	Atlantic white sided dolphin, long finned pilot whale, beluga whale, northern bottle nosed whale	none provided	P, A/G	Werner et al 2015; Hamer et al 2012		Marine mammal bycatch indicated, no data provided
Capelin	gillnet, set	370	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KLPs)	humpback whale	None provided	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Capelin	purse seine	370	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KLPs)	humpback whale	None provided	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Capelin	tuck seine	54	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	N/I, A/G	Canada Data		
Capelin	purse seine	54	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	N/I, A/G	Canada Data		
Capelin	trap net	54	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	N/I, A/G	Canada Data		
Char	gillnet, set	1	Not applicable	Not applicable	Newfoundland and Labrador Region (1-14)	humpback whale	None provided	P, A/G	U.S. trade data		Marine mammal bycatch indicated, no data provided
Crab	ground lines and trap	221	Not applicable	Not applicable	Pacific Region - A, B, E (Quatsino), E (Sooke), E (Tofino), G, H, I and J	None provided	None provided	N/I, A/G	Canada Data		

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crab, Jonah crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 32, 33, 34,)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, Jonah crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 38)	humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, red crab	pots	5	Not applicable	Not applicable	Maritimes Region (4x4w5z)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	pot (pyramid-type)	38	Not applicable	Not applicable	Quebec Region (Gaspé)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	pot (pyramid-type)	38	Not applicable	Not applicable	Quebec Region (North shore)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	pot (pyramid-type)	38	Not applicable	Not applicable	Quebec Region (Magdalen Islands)	Humpback whale, fin whale, sperm whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	27	Not applicable	Not applicable	Gulf Region (area 23)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	6	Not applicable	Not applicable	Gulf Region (area 24)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	55	Not applicable	Not applicable	Gulf Region (area 25)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	72	Not applicable	Not applicable	Gulf Region (area 26A)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	0	Not applicable	Not applicable	Gulf Region (area 26B)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	pots	11	Not applicable	Not applicable	Newfoundland and Labrador Region (CFA 3-13)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 27)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 29, 31a, 31b, 32)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 34)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 35)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, rock crab	traps	None provided	Not applicable	Not applicable	Maritimes Region (LFA 36)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
crab, Snow crab	pots	55	Not applicable	Not applicable	Maritimes Region (20, 21, 22)	North Atlantic right whale	None provided	P, A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration
crab, Snow crab	pots	41	Not applicable	Not applicable	Maritimes Region (23)	humpback whale	None provided	P, A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration
crab, Snow crab	pots	41	Not applicable	Not applicable	Maritimes Region (24)	Seals (not specified)	None provided	P, A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration

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crab, Snow crab	pots	6	Not applicable	Not applicable	Maritimes Region (4X)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
crab, Snow crab	pots	1717	Not applicable	Not applicable	Newfoundland and Labrador Region (2GHJ, 3KLNO, 3Ps, 4R3Pn)	humpback whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
crab, Snow crab	traps (conical)	104	Not applicable	Not applicable	Gulf (Area 19)	minke whale, humpback whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
crab, Snow crab	traps (conical)	311	Not applicable	Not applicable	Gulf Quebec (Areas 12 (12, 18, 25, 26) 12E and 12F)	humpback whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
crab, Snow crab	traps (conical, Japanese)	8 - 54	Not applicable	Not applicable	Quebec Region (Area 12A, 12B, 12C, 13, 14, 15, 16, 16A, 17)	Humpback whale, fin whale, sperm whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
crab, Toad crab	pots	12	Not applicable	Not applicable	Newfoundland and Labrador Region	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
crab, Toad crab	crab trap (pyramidale)	None provided	Not applicable	Not applicable	Gulf Region - 4T (Area 26A, 24, 23)	None provided	None provided	A/G, N/I	Canada Data		
dogfish	longline	3	Not applicable	Not applicable	Pacific Region (coastwide)	Atlantic white sided dolphin, long finned pilot whale, beluga whale, northern bottle nosed whale	None provided	P, A/G	Werner et al 2015; Hamer et al 2012	Marine mammal bycatch indicated, no data provided	
Flounder	trawl, bottom otter	None provided	Not applicable	Not applicable	Maritimes Region (4X5Y)	None provided	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	
flounder	trawl, bottom otter	None provided	Not applicable	Not applicable	Maritimes Region (4VWX+5)	Seals (not specified)	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	
flounder, Winter Flounder	gillnet (set or fixed)	38	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I	Canada Data		
flounder, Winter Flounder	gillnet set	18	Not applicable	Not applicable	Newfoundland and Labrador Region (3KL)	humpback whale	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	
flounder, Winter Flounder	gillnet set	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Ps)	humpback whale	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	
Flounder, Witch flounder	trawl, otter	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Ps)	None provided	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	
Flounder, Witch flounder	Scottish seine	8	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I	Canada Data		
Flounder, Witch flounder	bottom otter trawl (stern)	8	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I	Canada Data		
Flounder, Yellowtail Flounder	none provided	4	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I	Canada Data		
Flounder, Yellowtail Flounder	Scottish seine	16	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I	Canada Data		
Flounder, Yellowtail Flounder	gillnet (set or fixed)	16	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I	Canada Data		
Flounder, Yellowtail Flounder	bottom otter trawl (stern)	16	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I	Canada Data		

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Greenland halibut	trawl, bottom	9	Not applicable	Not applicable	Central and Arctic Region (0A)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Greenland halibut	trawl, bottom	6	Not applicable	Not applicable	Central and Arctic Region (0B)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Greenland halibut	pots	9	Not applicable	Not applicable	Central and Arctic Region (0A)	sperm whale, bottlenose whale, Greenland porpoise, whale (not specified), seal (not specified)	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided, see wks. 3 (CA MM Bycatch (FMHIS))
Greenland halibut	pots	6	Not applicable	Not applicable	Central and Arctic Region (0B)	bottlenose whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided, see wks. 3 (CA MM Bycatch (FMHIS))
Greenland halibut	gillnet	9	Not applicable	Not applicable	Central and Arctic Region (0A)	sperm whale, bottlenose whale, Greenland porpoise, whale (not specified), seal (not specified)	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided, see wks. 3 (CA MM Bycatch (FMHIS))
Greenland halibut	gillnet	6	Not applicable	Not applicable	Central and Arctic Region (0B)	bottlenose whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided, see wks. 3 (CA MM Bycatch (FMHIS))
Greenland halibut	longline	9	Not applicable	Not applicable	Central and Arctic Region (0A)	Atlantic white sided dolphin, long finned pilot whale, beluga whale, northern bottle nosed whale	None provided	P, A/G		Werner et al 2015; Hamer et al 2012	Marine mammal bycatch indicated, no data provided
Greenland halibut	longline	6	Not applicable	Not applicable	Central and Arctic Region (0B)	Atlantic white sided dolphin, long finned pilot whale, beluga whale, northern bottle nosed whale	None provided	P, A/G		Werner et al 2015; Hamer et al 2012	Marine mammal bycatch indicated, no data provided
Greenland halibut (turbot)	trawl, bottom	6	Not applicable	Not applicable	Newfoundland and Labrador Region (2-3 KLMNO)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Greenland halibut (turbot)	gillnet	352	Not applicable	Not applicable	Newfoundland and Labrador Region (2-3 KLMNO)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Greenland halibut (turbot)	longline	352	Not applicable	Not applicable	Newfoundland and Labrador Region (2-3 KLMNO)	humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Greenland Halibut	Scottish seine	129	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Greenland Halibut	gillnet (set or fixed)	129	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	longline	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Pns)	None provided	none provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Halibut (Atlantic)	pot	1272	Not applicable	Not applicable	Gulf Region -4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	midwater trawl (side)	1272	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	

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Halibut (Atlantic)	longline	1272	Not applicable	Not applicable	Gulf Region -4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	gillnet (set or fixed)	1272	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	bottom otter trawl (stern)	1272	Not applicable	Not applicable	Gulf Region - 4RST	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	bottom otter trawl (stern)	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	gillnet (set or fixed)	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	longline	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	midwater trawl (side)	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	pot	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Halibut (Atlantic)	shrimp trawl	441	Not applicable	Not applicable	Maritimes Region - 3NOPs, 4VWX+5Zc	None provided	None provided	A/G, N/I		Canada Data	
Halibut	longline	149	Not applicable	Not applicable	Pacific Region (Areas 1 to 11, 21, 23 to 27, 101 to 111, 121, 123 to 127, 130, 142, Subarea 12-14, 12-1 to 12-13, 12-15 to 12-48, 19-3 to 19-5 and Area 20)	None provided	none provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Haddock	gillnet	67	Not applicable	Not applicable	Maritimes Region (4X5Y)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Haddock	trawl, bottom otter	67	Not applicable	Not applicable	Maritimes Region (4X5Y)	Seals (not specified)	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Haddock	longline	67	Not applicable	Not applicable	Maritimes Region (4X5Y)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Haddock	longline	45	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I		Canada Data	
Haddock	gillnet (set or fixed)	45	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I		Canada Data	
Haddock	bottom otter trawl (stern)	45	Not applicable	Not applicable	Maritimes Region - 5Z (j.m.)	None provided	None provided	A/G, N/I		Canada Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
hake, silver hake	trawl, bottom otter	9	Not applicable	Not applicable	Maritimes Region (4VWX+5)	Dolphins (not specified)	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Hake (white)	longline	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Pn)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Hake (white)	longline	4	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I		Canada Data	
herring	gillnet set	44	Not applicable	Not applicable	Newfoundland and Labrador Region (2-3)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
herring	purse seine	44	Not applicable	Not applicable	Newfoundland and Labrador Region (2-3)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
herring	gillnet set	3	Not applicable	Not applicable	Newfoundland and Labrador Region (4R)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
herring	purse seine	3	Not applicable	Not applicable	Newfoundland and Labrador Region (4R)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
herring	purse seine	10	Not applicable	Not applicable	Maritimes Region (SWNS and BoF)	Seals (not specified)	none provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Herring	purse seine	490	Not applicable	Not applicable	Gulf Region - 4TVn – Spring	None provided	None provided	A/G, N/I		Canada Data	
Herring	gillnet (unspecified)	490	Not applicable	Not applicable	Gulf Region - 4TVn – Spring	None provided	None provided	A/G, N/I		Canada Data	
Herring	gillnet (set or fixed)	490	Not applicable	Not applicable	Gulf Region - 4TVn – Spring	None provided	None provided	A/G, N/I		Canada Data	
Herring	purse seine	490	Not applicable	Not applicable	Maritimes Region - 4TVn – Fall	None provided	None provided	A/G, N/I		Canada Data	
Herring	gillnet (unspecified)	490	Not applicable	Not applicable	Maritimes Region - 4TVn – Fall	None provided	None provided	A/G, N/I		Canada Data	
Herring	gillnet (set or fixed)	490	Not applicable	Not applicable	Maritimes Region - 4TVn – Fall	None provided	None provided	A/G, N/I		Canada Data	
krill	trawl	17	Not applicable	Not applicable	Pacific Region (south coast)	harbor seals	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
lingcod	troll, jig	37	Not applicable	Not applicable	Pacific Region (Groundfish Management Areas 3C, 3D, 5A, 5B, 5C, 5D and 5E, sub-Areas 12-1 to 12-13 and 12-15 to 12-48)	None provided	none provided	A/G, N/I		U.S. trade data	Marine mammal bycatch indicated, no data provided
Lobster	pots	1263	Not applicable	Not applicable	Newfoundland and Labrador Region (LFA 1-14)	humpback whale	None provided	P, A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration
Lobster	pots	125	Not applicable	Not applicable	Maritimes Region, Bay of Fundy (LFA 35)	None provided	None provided	A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration
Lobster	pots	493	Not applicable	Not applicable	Maritimes Region, Cape Breton (Area 27)	minke whale	None provided	P, A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Lobster	pots	7	Not applicable	Not applicable	Maritimes Region, Cape Breton (Area 28)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	62	Not applicable	Not applicable	Maritimes Region, Cape Breton (Area 29)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	19	Not applicable	Not applicable	Maritimes Region, Cape Breton (Area 30)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	66	Not applicable	Not applicable	Maritimes Region, Eastern Nova Scotia (Area 31A)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	213	Not applicable	Not applicable	Maritimes Region, Eastern Nova Scotia (Area 31B and 32)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	1640	Not applicable	Not applicable	Maritimes Region, Southwest Nova Scotia (Area 33 and 34)	risso's dolphin; humpback whale; minke whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	132	Not applicable	Not applicable	Maritimes Region, Gulf of Maine (Area 38)	minke whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	61	Not applicable	Not applicable	Maritimes Region, Machaise Island (Area 38B)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	177	Not applicable	Not applicable	Maritimes Region, Southwest New Brunswick (Area 36)	North Atlantic right whale, humpback whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	669	Not applicable	Not applicable	Maritimes Region, Northeast New Brunswick (Area 23)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	635	Not applicable	Not applicable	Gulf Region, Northern Prince Edward Island (Area 24)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	710	Not applicable	Not applicable	Gulf Region, Southwest Prince Edward Island/New Brunswick (Area 25)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	912	Not applicable	Not applicable	Gulf Region, Southeast Prince Edward Island/New Brunswick (Area 26)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	2	Not applicable	Not applicable	Quebec Region, Chaleur Bay/Magdalen Islands (Area 21, 22)	minke whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	69	Not applicable	Not applicable	Quebec Region, North Shore and northern Gaspé peninsula (Area 15-19)	minke whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster	pots	None provided	Not applicable	Not applicable	Quebec Region, southern Gaspé peninsula (Area 20)	minke whale	None provided	P, A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
Lobster, Jonah crab	pots	1	Not applicable	Not applicable	Maritimes Region (Area 41)	None provided	None provided	A/G, C/O	U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration	
lumpfish	gillnet set	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (2J3KL)	Humpback whale	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	
lumpfish	gillnet set	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3Ps)	Humpback whale	None provided	P, A/G	U.S. trade data	Marine mammal bycatch indicated, no data provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
lumpfish	gillnet set	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (4R3Pn)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Mackerel	tuck seine	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	trap net	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	purse seine	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	pot	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	mechanical device (mackerel)	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	gillnet (unspecified)	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	gillnet (set or fixed)	388	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Mackerel	trap	None provided	Not applicable	Not applicable	Maritime Region, Cape Breton/St. Margaret's Bay	North Atlantic right whale, minke whale, longfin pilot whale	2 longfin pilot whales	P, A/G, C/O		U.S. trade data	Marine mammal bycatch indicated, no data provided, season overlap with whale migration
monkfish	gillnet set	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (3LNOPs)	Humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Pollock	trawl, bottom otter	73	Not applicable	Not applicable	Maritimes Region (4VWX, 5Zc)	Seals (not specified)	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Pollock	gillnet set	73	Not applicable	Not applicable	Maritimes Region (4VWX, 5Zc)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Pollock	longline	73	Not applicable	Not applicable	Maritimes Region (4VWX, 5Zc)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Plaice, American	Gillnet, set	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (4R)	humpback whale	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Plaice, American	bottom otter trawl (stern)	2	Not applicable	Not applicable	Gulf Region - 4T	None provided	None provided	A/G, N/I		Canada Data	
Plaice, American	bottom trawl	1	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I		Canada Data	
Plaice, American	gillnet	1	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I		Canada Data	
Prawn	ground lines and trap	250	Not applicable	Not applicable	Pacific Region Coastwide	humpback whale, grey whale	None provided	A/G, N/I		Canada Data	
Redfish	bottom otter trawl (stern)	2	Not applicable	Not applicable	Gulf Region - UNIT 1	None provided	None provided	A/G, N/I		Canada Data	
Redfish	midwater trawl	2	Not applicable	Not applicable	Gulf Region - UNIT 1	None provided	None provided	A/G, N/I		Canada Data	

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Redfish	trawl, bottom otter	1	Not applicable	Not applicable	Gulf Region Unit 2 (4RST)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Redfish	trawl, bottom otter	9	Not applicable	Not applicable	Maritimes Region Unit 2 (4VW)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Redfish	trawl, bottom otter	None provided	Not applicable	Not applicable	Newfoundland and Labrador Region (unit 2)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Redfish	bottom otter trawl (stern)	2	Not applicable	Not applicable	Newfoundland and Labrador Region - UNIT 2	None provided	None provided	A/G, N/I		Canada Data	
Redfish	midwater trawl	2	Not applicable	Not applicable	Newfoundland and Labrador Region - UNIT 2	None provided	None provided	A/G, N/I		Canada Data	
Redfish	trawl, bottom otter	None provided	Not applicable	Not applicable	Maritimes Region (unit 3)	Seals (not specified)	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Redfish	bottom otter trawl (stern)	2	Not applicable	Not applicable	Maritimes Region - UNIT 3	None provided	None provided	A/G, N/I		Canada Data	
Redfish	midwater trawl	2	Not applicable	Not applicable	Maritimes Region - UNIT 3	None provided	None provided	A/G, N/I		Canada Data	
Rockfish	longline	9	Not applicable	Not applicable	Pacific Region (Areas 13 to 20, 28, 29 and Subareas 12-1 to 12-13, 12-15 to 12-48)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Rockfish	longline	39	Not applicable	Not applicable	Pacific Region (Areas 1 to 11, 21, 23 to 27, 101 to 111, 121, 123 to 127, 130, 142 and Subarea 12-14)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Roe	gillnet	75	Not applicable	Not applicable	Pacific Region (2E, 3, 4, 5, 6, 7, 8, 14 to 18, 23, 24, 25)	harbor seal, sea lion	none provided	P, A/G		U.S. trade data	
Roe	purse seine	25	Not applicable	Not applicable	Pacific Region (2E, 3, 4, 5, 6, 7, 8, 14 to 18, 23, 24, 25)	harbor seal, sea lion, harbor porpoise	none provided	P, A/G		U.S. trade data	
sablefish	longline	33	Not applicable	Not applicable	Pacific Region (Areas 1 to 11, 21, 23 to 27, 101 to 111, 121, 123 to 127, 130, 142, Subarea 12-14, 12-1 to 12-13, 12-15 to 12-48, 19-3 to 19-5 and Area 20)	None provided	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
sardine	purse seine	20	Not applicable	Not applicable	Pacific Region (3 – 13, 20, 23 to 27, 101 to 110, 121, 123 to 127, 130 and 142)	sea lion, harbor seal, humpback whale	None provided	P, A/G		U.S. trade data	
Scallop – Offshore	none provided	280	Not applicable	Not applicable	Newfoundland and Labrador Region - Maritimes Region	None provided	None provided	A/G, N/I		Canada Data	
scallop	trawl	5	Not applicable	Not applicable	Pacific Region (south coast)	harbor seal	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shark	pot	23	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Shark	longline	23	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Shark	gillnet (unspecified)	23	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Shark	gillnet (set or fixed)	23	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Shrimp	trawl	None provided	Not applicable	Not applicable	Maritimes Region (13,14,15)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shrimp	pot	None provided	Not applicable	Not applicable	Maritimes Region (15)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shrimp	trawl	47	Not applicable	Not applicable	Quebec Region (9)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shrimp	trawl	None provided	Not applicable	Not applicable	Quebec Region (8)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shrimp	trawl	16	Not applicable	Not applicable	Quebec Region (12)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shrimp	trawl	58	Not applicable	Not applicable	Quebec Region (10)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Shrimp	trawl	237	Not applicable	Not applicable	Pacific Region	harbor seal	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
shrimp, northern	trawl	None provided	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
shrimp, northern	trawl	None provided	Not applicable	Not applicable	National Headquarters	None provided	None provided	A/G, N/I		Canada Data	
Silverside	trap nets fixed	None provided	Not applicable	Not applicable	Prince Edward Island/Gulf	None provided	None provided	A/G, N/I		Canada Data	
Skate	longline	21	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I		Canada Data	
Skate	gillnet (set or fixed)	21	Not applicable	Not applicable	Newfoundland and Labrador Region - 3Ps	None provided	None provided	A/G, N/I		Canada Data	
Smelt	trap	6	Not applicable	Not applicable	Newfoundland and Labrador Region (4R)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Smelt	purse seine	6	Not applicable	Not applicable	Newfoundland and Labrador Region (4R)	None provided	None provided	A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
Smelt	gillnet set	Non-vessel based	Not applicable	Not applicable	Maritimes Region (NS, NB)	None provided	none provided	A/G		U.S. trade data	
groundfish	trawl, bottom	56	Not applicable	Not applicable	Pacific Region	harbor seals, sea lions, humpback whales	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
groundfish	mid-water trawl	56	Not applicable	Not applicable	Pacific Region	harbor seals, sea lions, humpback whales	None provided	P, A/G		U.S. trade data	Marine mammal bycatch indicated, no data provided
salmon (sockeye, pink, chum)	gillnet	383	Not applicable	Not applicable	Pacific Region (D - Areas 11 to 15 and 23 to 27)	harbor seal, sea lions, harbor porpoise, killer whale, humpback whale	None provided	P, A/G		U.S. trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
salmon (sockeye, pink, chum)	purse seine	168	Not applicable	Not applicable	Pacific Region (B - Areas 11 to 28, and 121)	harbor seal, sea lions, harbor porpoise, humpback whale	None provided	P, A/G		U.S. trade data	
salmon (sockeye, pink, chum)	gillnet	390	Not applicable	Not applicable	Pacific Region (E - Areas 16 to 22, 28, 29 and 121)	harbor seal, sea lions, harbor porpoise, killer whale, humpback whale	None provided	P, A/G		U.S. trade data	
salmon (sockeye, pink)	purse seine	108	Not applicable	Not applicable	Pacific region (A - Areas 1 to 10, Subarea 101-7)	harbor seal, sea lions, harbor porpoise, humpback whale	None provided	P, A/G		U.S. trade data	
salmon (sockeye)	purse seine	10	Not applicable	Not applicable	Pacific Region (2E (2W), 3, 4, 5, 6, 7, 8, 14 to 18, 23, 24, 25, 27, 10, 12)	harbor seal, sea lion, humpback whale	None provided	P, A/G		U.S. trade data	
salmon (sockeye, pink, chum)	gillnet	629	Not applicable	Not applicable	Pacific Region (C- Areas 1 to 10, Subarea 101-7)	harbor seal, sea lions, harbor porpoise, humpback whale	None provided	P, A/G		U.S. trade data	
special use	gillnet	8	Not applicable	Not applicable	Pacific Region (3,4,5,13, to 19, 29)	harbor seal, sea lion	None provided	P, A/G		U.S. trade data	
special use	seine	8	Not applicable	Not applicable	Pacific Region (3,4,5,13, to 19, 29)	harbor seal, sea lion	None provided	P, A/G		U.S. trade data	
swordfish	longline	92	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	pilot whales, seal	None provided	P, A/G		U.S. trade data	
tuna	troll	54	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	dolphins (not specified), whales (not specified) Bottlenose dolphin	None provided	P, A/G		U.S. trade data	
tuna	longline	54	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	dolphins (not specified), whales (not specified) Bottlenose dolphin	None provided	P, A/G		U.S. trade data	
tuna, bluefin	troll	562	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	dolphins (not specified), whales (not specified) Bottlenose dolphin	None provided	P, A/G		U.S. trade data	
tuna, bluefin	longline	562	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	dolphins (not specified), whales (not specified) Bottlenose dolphin	None provided	P, A/G		U.S. trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, bluefin	trap net	562	Not applicable	Not applicable	Maritimes Region (3,4,5 (exception 4RST and Bay of Fundy) and International Convention for the Conservation of Atlantic Tuna 3), National Headquarters	None provided	None provided	A/G	U.S. trade data		
Atlantic Salmon	aquaculture, netpen	100	None provided	Not applicable	British Columbia	Harbor seal, California sea lion, Steller sea lion, humpback whale	294, 26, 8, 15, 42, 9 (2011-2016)	P	Mandatory reporting, audit of facility logbook and site inspection		Wursig et al provide estimate of harbor seals, sea otters, sea lions and harbor porpoise kills at one salmon facility in BC, Wursig and Gailey 2002
Chinook Salmon	aquaculture, netpen	22	None provided	Not applicable	British Columbia	California sea lion, harbor seal	5,2,1,0,0,0 (2011-2016)	P	Mandatory reporting, audit of facility logbook and site inspection		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
Coho Salmon	aquaculture, netpen	5	None provided	Not applicable	British Columbia	California sea lion, harbor seal	4,0,0,0,0,0 (2011-2016)	P	Mandatory reporting, audit of facility logbook and site inspection		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
Sablefish	aquaculture, netpen	6	None provided	Not applicable	British Columbia	harbor seal	0,1,0,0,0,0 (2011-2016)	P	Mandatory reporting, audit of facility logbook and site inspection		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
salmon, Atlantic	aquaculture, marine cage	41	None provided	Not applicable	New Brunswick	harbor seal	none documented	C/O, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
cunner	aquaculture, integrated multitrophic	5	None provided	Not applicable	New Brunswick	harbor seal	none documented	C/O, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
Haddock	aquaculture, marine cage	1	None provided	Not applicable	New Brunswick	harbor seal	none documented	C/O, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
halibut	aquaculture, marine cage	1	None provided	Not applicable	New Brunswick	harbor seal	none documented	C/O, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
cod	aquaculture, marine cage	1	None provided	Not applicable	New Brunswick	harbor seal	none documented	C/O, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
salmon, Atlantic	aquaculture, net pen	88	None provided	Not applicable	Newfoundland and Labrador	harbor seal, gray seal	0,2,2,3,0,1 (2011-2016))	P, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
trout, steelhead	aquaculture, net pen	88	None provided	Not applicable	Newfoundland and Labrador	harbor seal, gray seal	0,2,2,3,0,1 (2011-2016))	P, A/G	U.S. trade data		Bycatch is not reported, only intentional removals require documentation as per the nuisance permits of the Marine Mammal Regulations.
Whelk	pots	None provided	Not applicable	Not applicable	Maritimes Region, offshore	minke whale	None provided	P, A/G, C/O	U.S. trade data		Marine mammal bycatch indicated, no data provided, season overlap with whale migration
Whelk	pots	43	Not applicable	Not applicable	Newfoundland and Labrador Region (3Ps)	humpback whale	None provided	P, A/G, C/O	U.S. trade data		Marine mammal bycatch indicated, no data provided, season overlap with whale migration
Whelk	pots	63	Not applicable	Not applicable	Labrador Region (2J, 3KL, 4R3Pn)	None provided	None provided	A/G, C/O	U.S. trade data		Marine mammal bycatch indicated, no data provided, season overlap with whale migration
Whelk	trap, conical, pyramid, mixed, pot	59	Not applicable	Not applicable	Quebec Region	minke whale	None provided	P, A/G, C/O	U.S. trade data		Marine mammal bycatch indicated, no data provided, season overlap with whale migration
Whelk	modified lobster trap	None provided	Not applicable	Not applicable	Gulf Region	None provided	None provided	A/G, N/I	Canada Data		

Cape Verde

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
mackerel, sardine	handlines	1500 Artisanal boats, 97 vessels for industrial fishing (size from 8 to 25 m with 40-510 HP engines)	not applicable	not applicable	Cape Verde Coastal and Insular Areas (FAO 34.3.11 and 34.3.12)	None provided	None provided	N/I, A/G		U.S. Trade Data	
mackerel, sardine	beach seine	1500 Artisanal boats, 97 vessels for industrial fishing (size from 8 to 25 m with 40-510 HP engines)	not applicable	not applicable	Cape Verde Coastal and Insular Areas (FAO 34.3.11 and 34.3.12)	None provided	None provided	N/I, A/G		U.S. trade data	
snapper, grouper, flounder	handlines	1500 Artisanal boats, 97 vessels for industrial fishing (size from 8 to 25 m with 40-510 HP engines)	not applicable	not applicable	Cape Verde Coastal and Insular Areas (FAO 34.3.11 and 34.3.12)	None provided	None provided	N/I, A/G		U.S. trade data	
tuna (albacore)	pole and line, handlines	1043, 1500 Artisanal boats, 97 vessels for industrial fishing (size from 8 to 25 m with 40-510 HP engines), 30 E.U. Surface longliners, 13 E.U. Pole-and-line vessels	Not applicable	Not applicable	West Africa	None provided	None provided	A/G		http://www.fao.org/docrep/014/i2175e/i2175e00.pdf	
Export Fisheries											
mackerel, sardine	purse seine	1500 Artisanal boats, 97 vessels for industrial fishing (size from 8 to 25 m with 40-510 HP engines)	not applicable	not applicable	Cape Verde Coastal and Insular Areas (FAO 34.3.11 and 34.3.12)	None provided	None provided	N/I, A/G		U.S. trade data	FL West Coast sardine purse seine, 10, Eastern GMX coastal
snapper, grouper, flounder	gillnet	1500 Artisanal boats, 97 vessels for industrial fishing (size from 8 to 25 m with 40-510 HP engines)	not applicable	not applicable	Cape Verde Coastal and Insular Areas (FAO 34.3.11 and 34.3.12)	None provided	None provided	N/I, A/G		U.S. trade data	
tuna (yellowfin, bigeye, skipjack)	purse seine	4 large-scale, 28 E.U. vessels	not applicable	not applicable	International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G	ICCAT	https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
tuna (yellowfin, bigeye, skipjack)	purse seine	65 smaller-scale	not applicable	not applicable	International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G	ICCAT	https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
Export Fisheries with No Information											
tuna (frigate, wahoo, black skipjack), billfish (marlin and swordfish)	1239 artisanal and sport vessels (in 2011)	none provided	not applicable	not applicable	EEZ	none provided	none provided	N/I	ICCAT	https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf , http://www.fao.org/docrep/014/i2175e/i2175e00.pdf	
Chile											
Exempt Fisheries											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Chilean jack mackerel	Artisanal Handline	605	not applicable	not applicable	All year; Chilean province XV to X Regions (0-5 nm (artisanal fishing))	Unlikely interaction with handline	none provided	N/I	Chile provided		Chile comment: the gears gillnet and longline were erased, they had been mistakenly informed in the first submission of information. According to Resolution 3115/13 the fishery of Chilean Jack Mackerel with those gears does not exist (http://www.subpesca.cl/portal/616/articles-81856_documento.pdf) Number of vessels has been updated, showing now the number of vessel effectively operating during 2016 (the number of vessels aggregates both purse seine and handline).
Humboldt squid	Artisanal Squid jig	1622	not applicable	not applicable	All year; IV to X Regions (25 nm)	none provided	none provided	A/G	Chile provided		All year Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. Western Pacific squid jig is a Category III
Picoroco (Austromegabalanus psittacus)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Intertidal and subtidal zone)	none provided	none provided	A/G	Chile provided		All year. 67483 authorized fishermen [no vessels].
algae spp. (Lessonia berteroa/Lessonia spicata)	Manual extraction Diving	161	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Intertidal zone)	none provided	none provided	A/G	Chile provided		All year (except the closed fishing season)
algae spp. (Chondracanthus chamissoi)	Manual extraction Diving	850	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Intertidal and subtidal zone)	none provided	none provided	A/G	Chile provided		all year
Cochayuyo (Durvillaea Antarctica)	Manual extraction Diving	895	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces IV to XII Regions (Intertidal zone)	none provided	none provided	A/G	Chile provided		All year (except the closed fishing season)
giant kelp (Macrocystis pyrifera)	Manual extraction Diving	257	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to XII Regions (Subtidal zone)	none provided	none provided	A/G	Chile provided		All year (except the closed fishing season)
algae spp. (Mazzaella laminarioides)	Manual extraction Diving	1035	not applicable	not applicable	All year; Chilean Provinces IV to XII Regions (Intertidal zone)	none provided	none provided	A/G	Chile provided		all year
algae spp. (Mazzaella membranacea)	Manual extraction Diving	74	not applicable	not applicable	All year; Chilean Provinces V to XII Regions (Coast and internal waters)	none provided	none provided	A/G	Chile provided		all year
algae spp. (Sarcothalia crispata)	Manual extraction Diving	1066	not applicable	not applicable	All year; Chilean Provinces V to XII Regions (Coast and internal waters)	none provided	none provided	A/G	Chile provided		all year
algae spp. (Gigartina skottsbergi)	Manual extraction Diving	919	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XIV to XII Regions (Intertidal and subtidal zone, until 15 m deep)	none provided	none provided	A/G	Chile provided		All year (except the closed fishing season)
red algae spp. (Gracilaria spp.)	Manual extraction Diving	1088	not applicable	not applicable	All year; Chilean Provinces IV to X Regions (Intertidal and subtidal zone, until 25 m deep)	none provided	none provided	A/G	Chile provided		all year

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Venus clams	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Intertidal and subtidal zone)	none provided	none provided	A/G	Chile provided	All year. 64422 authorized fishermen [no vessels].	
clam spp. (<i>Protothaca thaca</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Intertidal and subtidal zone)	none provided	none provided	A/G	Chile provided	All year. 60284 authorized fishermen [no vessels].	
snail spp. (<i>Thais chocolata</i>)	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to V Regions (Intertidal and subtidal zone, until 53 m deep)	none provided	none provided	A/G	Chile provided	All year (except the closed fishing season). 15501 authorized fishermen [no vessels].	
snail spp. (<i>Argobuccinum</i> spp.)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces IV to XII Regions (Subtidal zone, until 200 m deep)	none provided	none provided	A/G	Chile provided	All year. 55250 authorized fishermen [no vessels].	
sea snail spp. (<i>Adelomelon ancilla</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces X to XII Regions (Subtidal zone, until 200 m deep)	none provided	none provided	A/G	Chile provided	all year. 34638 authorized fishermen [no vessels].	
snail spp. (<i>Xantochorus cassidiformis</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to X Regions (Subtidal zone)	none provided	none provided	A/G	Chile provided	all year. 59630 authorized fishermen [no vessels].	
snail spp. (<i>Trophon geversianus</i>)	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces X to XII Regions (Intertidal and subtidal zone, until 100 m deep)	none provided	none provided	A/G	Chile provided	All year (except the closed fishing season). 5760 authorized fishermen [no vessels].	
snail spp. (<i>Chorus giganteus</i>)	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to X Regions (Subtidal zone)	none provided	none provided	A/G	Chile provided	All year (except the closed fishing season). 55248 authorized fishermen [no vessels].	
Chilean blue mussel	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to XII Regions (Coast and internal waters)	none provided	none provided	A/G	Chile provided	All year (except the closed fishing season). 68031 authorized fishermen [no vessels].	
clam spp. (<i>Gari solida</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Subtidal zone)	none provided	none provided	A/G	Chile provided	All year. 64417 authorized fishermen [no vessels].	
Chilean sea urchin	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to XII Regions (Coast and internal waters)	none provided	none provided	A/G	Chile provided	All year (except the closed fishing season). 14888 authorized fishermen [no vessels].	
clam spp. (<i>Tawera gayi</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces V to XII Regions (Subtidal zone)	none provided	none provided	A/G	Chile provided	All year. 37164 authorized fishermen [no vessels].	
limpet spp. (<i>Fissurella</i> spp.)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Intertidal and subtidal zone)	none provided	none provided	A/G	Chile provided	All year. 68026 authorized fishermen [no vessels].	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Chilean abalone	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to XII Regions (Coast, until 50 m deep)	none provided	none provided	A/G			All year (except the closed fishing season). 15079 authorized fishermen [no vessels].
clam spp. (<i>Mesodesma donacium</i>)	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to X Regions (Intertidal and subtidal zone)	none provided	none provided	A/G			All year (except the closed fishing season). 11070 authorized fishermen [no vessels].
clam spp. (<i>Ensis macha</i>)	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces III to XII Regions (Subtidal zone)	none provided	none provided	A/G			All year (except the closed fishing season). 59533 authorized fishermen [no vessels].
clam spp. (<i>Tagelus dombeii</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to X Regions (Coast and internal waters, until 13 m deep)	none provided	none provided	A/G			All year. 59533 authorized fishermen [no vessels].
scallop spp. (<i>Chlamys vitrea</i>)	Manual extraction Diving	0	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XII Region (Coast and internal waters, until 17 m deep)	none provided	none provided	A/G			All year (except the closed fishing season). 8584 authorized fishermen [no vessels].
sea cucumber spp. (<i>Athyonidium chilensis</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to X Regions (Intertidal and subtidal zone)	none provided	none provided	A/G			All year. 64413 authorized fishermen [no vessels].
Octopus (<i>vulgaris</i> , <i>mimus</i> spp.)	Manual extraction Diving	318	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to VIII Regions	none provided	none provided	A/G			All year (except the closed fishing season).
southern red octopus (<i>Enteroctopus megalocyathus</i>)	Manual extraction Diving	1177	not applicable	not applicable	All year (except the closed fishing season); Chilean Provinces XV to XII Regions (Subtidal zone)	none provided	none provided	A/G			All year (except the closed fishing season).
clam spp. (<i>Mulinia edulis</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to XII Regions (Subtidal zone)	none provided	none provided	A/G			All year. 64411 authorized fishermen [no vessels].
clam spp. (<i>Semele solida</i>)	Manual extraction Diving	0	not applicable	not applicable	All year; Chilean Provinces XV to X Regions (Subtidal zone)	none provided	none provided	A/G			All year. 61058 authorized fishermen [no vessels].
red algae spp. (<i>Gracilaria</i> spp.)	Aquaculture/Planted directly on bottom or in suspended ropes	587 farms/510 participants	none provided	not applicable	All year; Chilean Provinces: II Antofagasta Region III Atacama Region IV Coquimbo Region VIII Biobio Region IX Araucania Region XIV Los Rios Region X Los Lagos Region XI Aysen del General Carlos Ibañez del Campo Region	none provided	none provided	N/I			all year Red algae spp. (<i>Gracilaria</i> spp.) are farmed directly on the seabed. Algae are buried on the marine bottom (sand or mud). There are no farming structures (long line or floating rafts) and the growth process is natural. There is no other activity in the farming area until the harvest. This activity is conducted in intertidal areas (beaches) or in very shallow waters (up to 20 meters). To date there are NO suspended systems to farm algae; it is done directly on the seabed. No interaction or incidental mortality findings have been reported on marine mammals. Exempt fishery is proposed. For photos of the farm operation, please see https://www.dropbox.com/sh/hlnxq3gj2qnmn4c/AAAHjzvcMi61wuxzym_Na2nFa?dl=0 .

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Chilean blue mussel	Aquaculture/Long-lines	1203 farms/687 participants	none provided	not applicable	All year (except the closed fishing season); Chilean Provinces: I Tarapaca Region III Atacama Region V Valparaiso Region VI Libertador General Bernardo O'Higgins Region VIII Biobio Region IX Araucania Region XIV Los Rios Region X Los Lagos Region XI Aysen del General Carlos Ibañez del Campo Region XII Magallanes and Antarctica Chilena Region	none provided	none provided	N/I	Chile provided	All year (except the closed fishing season) Farming gear related to "Chilean blue mussel" corresponds to surface or mid-water floating lines. These systems represent no threat to marine mammals or deaths as a result of the interaction with them. This is also supported by the absence of statements or findings regarding marine mammals as a result of these activities. There are no reports on marine mammal interaction or incidental mortality. Exempt fishery is proposed. For photos of the farm operation, please see https://www.dropbox.com/sh/hlnxq3gj2qnmn4c/AAAHjzvcMi61wuxzym_Na2nFa?dl=0 .	
Peruvian scallop	Aquaculture/Lantern-nets	372 farms/243 participants	none provided	not applicable	All year; Chilean Provinces: XV Arica and Parinacota Region I Tarapaca Region II Antofagasta Region III Atacama Region IV Coquimbo Region V Valparaiso Region VIII Biobio Region X Los Lagos Region XI Aysen del General Carlos Ibañez del Campo Region	none provided	none provided	N/I	Chile provided	all year Farming gear related to "Peruvian scallop" corresponds to surface or mid-water floating lines. These systems represent no threat to marine mammals or deaths as a result of the interaction with them. This is also supported by the absence of statements or findings regarding marine mammals as a result of these activities. There are no reports on marine mammal interaction or incidental mortality. Exempt fishery is proposed. For photos of the farm operation, please see https://www.dropbox.com/sh/hlnxq3gj2qnmn4c/AAAHjzvcMi61wuxzym_Na2nFa?dl=0 .	
Patagonian toothfish - Southern hake - Pink cusk eel	Industrial longline	5	not applicable	not applicable	All year; XI Region (South of 47° S) to XII Region (Continental slope)	orca, sperm whale, Globicephala melas	2013-2016: 0	A/G	Uses the cachalotera system	Chile provided (mm numbers in Sheet 2, Table 1); Huckle-Gaete et al. (2004); Young and Iudicello (2007) IFOP (2017)	Multispecies fishery: Patagonian toothfish - Southern hake - Pink cusk eel Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. No observed mortality over the last 5 years.
Patagonian toothfish	Industrial longline	3	not applicable	not applicable	All year; XI Region (South of 47° S) to XII Region (Continental slope)	orca, sperm whale, Globicephala melas	2013-2016: 0	A/G	Uses the cachalotera system	Chile provided (mm numbers in Sheet 2, Table 1); Huckle-Gaete et al. (2004); Young and Iudicello (2007) IFOP (2017)	Multispecies fishery: Patagonian toothfish - Southern hake - Pink cusk eel Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. No observed mortality over the last five years.
Antarctic krill	Industrial trawl, midwater	1	not applicable	not applicable	All year; Western Antarctic Peninsula region (CCAMLR Subarea 48.1-48.4)	none provided	none provided	A/G		U.S. trade data	According to CM 21-03 of CCAMLR, the use of Marine mammal exclusion device is mandatory. Exempt fishery is proposed.
red abalone	Aquaculture/ Floating rafts	107 farms/78 participants	none provided	not applicable	Chilean Provinces: III Atacama Region X Los Lagos Region South Georgia Island region (CCAMLR Subarea 48.3)	none provided	none provided	N/I	Chile provided	Farming gear related to "red abalone" corresponds to surface or mid-water floating lines. These systems represent no threat to marine mammals or deaths as a result of the interaction with them. This is also supported by the absence of statements or findings regarding marine mammals as a result of these activities. There are no reports on marine mammal interaction or incidental mortality. Exempt fishery is proposed.	
icefish	industrial trawl, midwater	1*	not applicable	not applicable	South Georgia Island region (CCAMLR Subarea 48.3)	none documented	none provided	C/O, A/G	CCAMLR	U.S. trade data	*last active 2014

Export Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Anchoveta / Chilean silverside	Artisanal Purse seine	76	not applicable	not applicable	XV-II Regions: 1 Mar-31 Dec; Chilean province (0-5 nm) XV to II Regions	southern sea lion	2015: 0	P, A/G		Chile provided; Luna et al. (2015). Proyecto Subpesca CUI 2013-115 IFOP (2017)	The gears handline, gillnet and longline were erased, they had been mistakenly informed in the first submission of information. According to Resolution 3115/13 the fishery of Anchoveta with those gears does not exist (http://www.subpesca.cl/portal/616/articles-81856_documento.pdf). Additionally, the fishery has been split in its 3 main areas of operation. Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Anchoveta	Artisanal Purse seine	43	not applicable	not applicable	Chilean province (0-5 nm) III to IV Regions	southern sea lion	2015:0	P, A/G		Chile provided; Luna et al. (2015). Proyecto Subpesca CUI 2013-115 IFOP (2017)	The gears handline, gillnet and longline were erased, they had been mistakenly informed in the first submission of information. According to Resolution 3115/13 the fishery of Anchoveta with those gears does not exist (http://www.subpesca.cl/portal/616/articles-81856_documento.pdf). Additionally, the fishery has been split in its 3 main areas of operation. Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Anchoveta	Artisanal Purse seine	442	not applicable	not applicable	V-XIV Regions: 9 Mar-31 Jul and 5 Oct-30 Nov X Region: 15 Apr-15 Sep and 15 Oct-15 Mar Chilean province (0-5 nm) V to X Regions	southern sea lion	2014:0 2015:0	P, A/G		Chile provided; Luna et al. (2015). Proyecto Subpesca CUI 2013-115 IFOP (2017)	The gears handline, gillnet and longline were erased, they had been mistakenly informed in the first submission of information. According to Resolution 3115/13 the fishery of Anchoveta with those gears does not exist (http://www.subpesca.cl/portal/616/articles-81856_documento.pdf). Additionally, the fishery has been split in its 3 main areas of operation. Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Anchoveta / Chilean silverside	Industrial Purse seine	58	not applicable	not applicable	XV-II Regions: 1 Mar-31 Dec Chilean province (1-200 nm) XV to II Regions	southern sea lion	2015:0	P, A/G		Chile provided; Luna et al. (2015). Proyecto Subpesca CUI 2013-115 IFOP (2017)	The fishery has been split in its 3 main areas of operation.
Anchoveta	Industrial Purse seine	14	not applicable	not applicable	Chilean province (5-200 nm) III to IV Regions	southern sea lion	2015:0	P, A/G		Chile provided; Luna et al. (2015). Proyecto Subpesca CUI 2013-115 IFOP (2017)	The fishery has been split in its 3 main areas of operation. Number of vessels in per area has been updated.
Anchoveta	Industrial Purse seine	28	not applicable	not applicable	V-XIV Regions: 9 Mar-31 Jul and 5 Oct-30 Nov X Region: 15 Apr-15 Sep and 15 Oct-15 Mar Chilean province (5-200 nm) V to X Regions	southern sea lion	2014:0 2015:0	P, A/G		Chile provided; Luna et al. (2015). Proyecto Subpesca CUI 2013-115 IFOP (2017)	The fishery has been split in its 3 main areas of operation. Number of vessels in per area has been updated.
Chilean jack mackerel	Artisanal Purse seine	605	not applicable	not applicable	All year; Chilean province XV to X Regions (0-5 nm (artisanal fishing))	Southern sea lion	2014:0 2015:0, 20 animals in 42 set	P, N/I		Chile provided IFOP (2017), Huckstadt & Antezana 2003; Gonzales 2015	Chile comment: the gears gillnet and longline were erased, they had been mistakenly informed in the first submission of information. According to Resolution 3115/13 the fishery of Chilean Jack Mackerel with those gears does not exist (http://www.subpesca.cl/portal/616/articles-81856_documento.pdf). Number of vessels has been updated, showing now the number of vessel effectively operating during 2016 (the number of vessels aggregates both purse seine and handline).
Chilean jack mackerel	Industrial Purse seine	87	not applicable	not applicable	All year; XV to X Regions 5-200 nm and SPRFMO area (industrial fishing)	southern sea lion	2 (18 captured) (region VII) 2014:0 2015:0	P, A/G		Chile provided; Hückstädt, L. A., & Antezana, T. (2003). Behavior of the southern sea lion (<i>Otaria flavescens</i>) and consumption of the catch during purse-seining for jack mackerel (<i>Trachurus symmetricus</i>) off central Chile. ICES Journal of Marine Science: Journal du Conseil, 60(5), 1003-1011. IFOP (2017)	"The number of sea lions observed at a purse-seine ranged between 0 and 50 per set (31 sets), with an average of 21." "During purse-seine operations, killer whales, Orcinus orca, were occasionally attracted into the area (four out of 31 sets), presumably to prey on the sea lions."

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
herring	Artisanal Purse seine	559	not applicable	not applicable	X Region: 15 Apr-15 Sep and 15 Oct-15 Mar V-XIV Regions: 9 Mar-31 Jul and 10 Oct-30 Nov V to X Regions (0-5 nm (artisanal fishing))	Southern sea lion	2014:0 2015:0	P, A/G		Chile provided IFOP (2017)	Chile comment: the gears handline, gillnet and longline were erased, they had been mistakenly informed in the first submission of information. According to Resolution 3115/13 the fishery of Herring with those gears does not exist (http://www.subpesca.cl/portal/616/articles-81856_documento.pdf) Number of vessels has been updated, showing now the number of vessel effectively operating during 2016
herring	Industrial Purse seine	41	not applicable	not applicable	X Region: 15 Apr-15 Sep and 15 Oct-15 Mar V-XIV Regions: 9 Mar-31 Jul and 10 Oct-30 Nov V to X Regions 5-100 nm (industrial fishing)	Southern sea lion	2014:0 2015:5	P, A/G		Chile provided IFOP (2017)	
Patagonian toothfish	Artisanal Bottom longline	181	not applicable	not applicable	15 Feb-31 May and 2 Oct-31 Dec XV to XI Regions (North of 47° S) (Continental slope)	southern sea lion (artisanal fisheries)	none provided	P, A/G		Chile provided; Moreno et al. (2003)	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Patagonian toothfish	Artisanal Bottom longline	30	not applicable	not applicable	All year; XI Region (South of 47° S) to XII Region (Continental slope)	southern sea lion (artisanal fisheries)	none provided	P, A/G		Chile provided; Moreno et al. (2003)	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Patagonian toothfish	Industrial longline	1	not applicable	not applicable	16 Apr-14 Sep South Georgia Island region (Subarea 48.3 CCAMLR)	orca, sperm whale	none provided	P, A/G		Chile provided; Hucke-Gaete et al. (2004); Young and Iudicello (2007)	
Patagonian toothfish	Industrial longline	0	not applicable	not applicable	West Antarctica/Ross Sea region (Subarea 88.1 and 88.2 CCAMLR)	none provided	none provided	A/G		U.S. trade data	*last active 2009 No Chilean vessel has been authorized to fish in Subarea 88.1 or 88.2 in the last years.
southern yellowtail amberjack	Artisanal Handline/Gillnet	2161	not applicable	not applicable	All year; Archipelago of Juan Fernandez (12 nm) Estearn Island	none provided	none provided	A/G		Chile provided	
southern yellowtail amberjack	Artisanal Handline/Gillnet	2161	not applicable	not applicable	Dec-Feb; XV to V Regions (5nm)	none provided	none provided	A/G		Chile provided	
swordfish, albacore, Mahi mahi	Artisanal Gillnet/Longline	194	not applicable	not applicable	Mar - Dec; XV to VII Regions (Chilean continental EEZ, International waters, Archipelago of Juan Fernandez, San Félix y San Ambrosio Islands)	Arctocephalus philippii, Delphinus delphis, Globicephala macrorhynchus, Globicephala melas, Otaria byrona: reported in gillnet fishery for swordfish	2011: 0 2012: 1 2013: 3 2014: 9 2015: 10	P, A/G		Chile provided (mm numbers See table 4 in Sheet 2 for detailed breakdown); Young and Iudicello 2007	"Sperm whales may be entangled in swordfish driftnets in Chile. Off north central Chile, sperm whales are known to be attracted to longliners, reportedly to scavenge the targeted Patagonian toothfish (Dissostichus eleginoides), and fishermen shoot at them and use other means of deterrence." Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. The same fleet changes from gillnet to longline during the season, so both gears have been aggregated. Multispecies fishery Note: species breakdown per targeted fishery in Table 4/Sheet 2.
swordfish, albacore, Mahi mahi	Industrial Longline	2	not applicable	not applicable	Mar - Dec XV to VII Regions (Chilean continental EEZ, International waters, Archipelago of Juan Fernandez, San Félix y San Ambrosio Islands)	Arctocephalus philippii, Delphinus delphis, Globicephala macrorhynchus, Globicephala melas, Otaria byrona	2011-2015: 0	P, A/G		Chile provided (mm numbers See table 5 in Sheet 2) Chile provided; Oliva et al. (2016); proyecto FIP 2014-29; Quiñones et al. (2012) Pavez et al (in progress)	Multispecies fishery
hake, corvina, snoek barracout	Artisanal Gillnet/longline	1225	not applicable	not applicable	Oct-Aug IV to X Regions (25 nm)	southern sea lion	2 (region V), 6 (region VIII)	P, A/G			Multispecies fishery Same fleet alternates between gillnet and longline

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Hake, Patagonian grenadier	Industrial Trawl (non factory)	15	not applicable	not applicable	Oct-Aug IV to X Regions (25 nm)	southern sea lion	2004: 12 (region VIII) 2013: 9 2014: 4 2015: 24	P, A/G		Chile provided (mm numbers 2013-2015 See Table 6 in Sheet 2 for detailed breakdown); Reyes, P., Hucke-Gaete, R., & Torres-Florez, J. P. (2013). First observations of operational interactions between bottom-trawling fisheries and South American sea lion, <i>Otaria flavescens</i> in south-central Chile. Journal of the Marine Biological Association of the United Kingdom, 93(02), 489-494. IFOP (2017)	*A total of 82 animals were incidentally caught, of which 12 were found dead, and the 70 remaining suffered from internal bleeding and/or fractures as a result of their capture (2004)* Note: species breakdown per targeted fishery in Table 6/Sheet 2.
Humboldt squid	Artisanal Purse seine	35	not applicable	not applicable	IV to X Regions (25 nm)	none provided	none provided	A/G		Chile provided	
Humboldt squid	Industrial Trawl	37	not applicable	not applicable	All year; IV to X Regions (25 nm)	southern sea lion	2013:0 2014:1 2015:0	P, A/G		Chile provided IFOP (2017)	
southern hake, pink cusk-eel	Artisanal Longline	1547	not applicable	not applicable	Sep-Jul X to XII Regions (20nm)	Southern sea lion, arctocephalus australis	none provided	P, A/G		Chile provided	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. Multispecies fishery.
Southern hake, Patagonian grenadier, Southern rays, beam, Micromesistius australis, Seriolella spp, Pink cusk eel	Industrial Trawl (non factory vessels)	2	not applicable	not applicable	Sept-Jul X to XII Regions (20nm)	South American fur seal, southern sea lion	2013: 15 2014: 38 2015: 101	P, A/G		IFOP (2017); Chile provided (mm numbers See Table 2 in Sheet 2 for detailed breakdown)	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. Multispecies fishery. Note: species breakdown per targeted fishery in Table 2/Sheet 2.
Southern hake, Patagonian grenadier, Micromesistius australis, Seriolella spp.	Industrial Trawl (industrial factory vessels)	4	not applicable	not applicable	Sept-Jul XI to XII Regions (20nm)	South American fur seal, southern sea lion	2013: 47 2014: 5 2015: 12	P, A/G		IFOP (2017); Chile provided (mm numbers See Table 3 in Sheet 2 for detailed breakdown)	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. Multispecies fishery. Area of operation has been amended. Note: species breakdown per targeted fishery in Table 3/Sheet 2.
Southern Ray's Bream	Artisanal Gillnet	856	not applicable	not applicable	All year; XI Region (30 nm)	none provided	none provided	A/G		Chile provided	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Southern Ray's Bream	Artisanal Longline	548	not applicable	not applicable	All year; XI Region (30 nm)	none provided	none provided	A/G		Chile provided	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Chilean Nylon Shrimp, lobster spp. (Cervimunida johni), lobster spp. (Pleuroncodes monodon)	Artisanal trawl, bottom	37	not applicable	not applicable	Jan-Jul and Oct-Dec II to VIII Regions (20 nm)	none provided	none provided	A/G		Chile provided	Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. Multispecies fishery.
Chilean Nylon Shrimp, lobster spp. (Cervimunida johni), lobster spp. (Pleuroncodes monodon)	Industrial trawl, bottom (non factory)	27	not applicable	not applicable	Jan-Jul and Oct-Dec II to VIII Regions (20 nm)	southern sea lion	2012: 1 2013: 1 2014: 0 2015: 1	P, A/G		Chile provided (mm numbers See Table 7 in Sheet 2 for detailed breakdown) IFOP (2017)	Multispecies fishery. Number of vessels has been updated, showing now the number of vessel effectively operating during 2016. Note: species breakdown per targeted fishery in Table 7/Sheet 2.
southern king crab	Artisanal Traps	460	not applicable	not applicable	XII Region: Jul-Nov XIV-XI Regions: Mar-Nov (20 nm and internal waters) XIV to XII Regions	Peale's dolphin	none provided	C/O, A/G		Chile provided	Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injury to marine mammals. Since early 1990's has been requested the use of bait officially supplied (see page 16 of document 'Chile - Information requirement according to MMPA Rule - Apr 2017 (Amended)'). Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
southern king crab	Traps (industrial vessel)	1	not applicable	not applicable	XII Region: Jul-Nov XIV-XI Regions: Mar-Nov (20 nm and internal waters) XIV to XII Regions	Peale's dolphin	none provided	C/O, A/G		Chile provided	1 industrial vessel using traps or pot. Given that this crab is harvested by traps, there is unlikely probability of dead or serious injury to marine mammals.
false king crab (Paralomis granulosa)	Artisanal Traps	73	not applicable	not applicable	Feb-Nov XII Region (20 nm and internal waters)	Peale's dolphin	none provided	C/O, A/G		Chile provided	Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injury to marine mammals. Since early 1990's has been requested the use of bait officially supplied (see page 16 of document 'Chile - Information requirement according to MMPA Rule - Apr 2017 (Amended)'). Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
crab spp. (Lithodes spp.)	Artisanal Traps	460	not applicable	not applicable	All year; XV to X Regions (30 nm)	Peale's dolphin	none provided	C/O, A/G		Chile provided	Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injury to marine mammals. Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
crab spp. (Cancer porteri)	Artisanal Traps	5718	not applicable	not applicable	All year; XV to VIII Regions (20 nm and internal waters)	Peale's dolphin	none provided	C/O, A/G	Chile provided		Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injure to marine mammals. Number of actively fishing artisanal vessels need to be updated.
crab spp. (Cancer edwardsi)	Artisanal Traps	8659	not applicable	not applicable	All year; XV to XII Regions (20 nm and internal waters)	Peale's dolphin	none provided	C/O, A/G	Chile provided		Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injure to marine mammals.
crab spp. (Homalaspis plana)	Artisanal Traps	8901	not applicable	not applicable	All year; XV to XII Regions (20 nm and internal waters)	Peale's dolphin	none provided	C/O, A/G	Chile provided		Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injure to marine mammals.
crab spp. (Cancer setosus)	Artisanal Traps	8831	not applicable	not applicable	All year; XV to XII Regions (20 nm and internal waters)	Peale's dolphin	none provided	C/O, A/G	Chile provided		Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injure to marine mammals.
crab spp. (Ovalipes trimaculatus)	Artisanal Traps	8725	not applicable	not applicable	All year; XV to XII Regions (20 nm and internal waters)	Peale's dolphin	none provided	C/O, A/G	Chile provided		Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injure to marine mammals.
Juan Fernandez rock lobster (Jasus frontalis)	Artisanal Traps	77	not applicable	not applicable	Jan-Feb, Apr-May, and Oct-Dec Archipelago of Juan Fernandez (10 nm)	none provided	none provided	A/G	Chile provided		Given that this crab is harvested by artisanal traps, there is unlikely probability of dead or serious injure to marine mammals. This fishery is certified according to MSC criteria. Number of vessels has been updated, showing now the number of vessel effectively operating during 2016.
Atlantic salmon, coho salmon, rainbow trout	Aquaculture/Sea cages	1361 farms/96 participants	none provided	not applicable	Chilean Provinces: IX Araucania Region XIV Los Rios Region X Los Lagos Region XI Aysen del General Carlos Ibañez del Campo Region XII Magallanes and Antarctica Chilena Region	southern sea lion	2004: 10 (region X)	P	Chile provided; Vilata J, Oliva D, Sepulveda M (2010) The predation of farmed salmon by South American sea lions (Otaria flavescens) in southern Chile. ICES Journal of Marine Science 67:475-482; Heinrich, S. 2012; Hindell, M., & Kirkwood, R. (2003). Marine Mammals: Fisheries, Tourism and Management Issues. CSIRO PUBLISHING. Referencing Claude, M., and Oporto, J. A. 2000. La ineficiencia de la salmonicultura en Chile. In 'Registro de Problemas Publicos Informe No. 1.' pp. 68. Terram Publicaciones, Santiago de Chile.	Regarding salmon and trout farming, the production is concentrated on the southern regions of Chile. Chile has sea lion nets surrounding every cage, with the objective of reducing significantly the probability of these mammals entering the farming centers and keeping them away from the fish. It is important to note that from 2010, the industry started to reduce the mesh opening to 10-12 inches to minimize entangling sea lions. Although there is interaction with marine mammals, Chile maintains the probability of this resulting in harm or threat to the life of marine mammals is insignificant and its impact is minimal due to the abundance of marine mammals populations in the regions where the salmon and trout production is concentrated (X, XI, and XII Regions).	

China

Exempt Fisheries											
coral, shells, cuttlebone	Aquaculture/hand collection Dredges - Hand dredges, Miscellaneous Gear, Traps (a) SCUBA diving, or (b) heavy-diving facilities	None provided	None provided	None provided	None provided	None provided	None provided			U.S. Trade data	
Scallops	0,000 scallop fisherm		Zoneco (formerly known as Zhangzidao)	None provided	Zhangzidao Island - North	None provided	None provided	N/I, A/G		U.S. trade data ; https://www.msc.org/newsroom/news/first-ever-chinese-fishery-achieves-msc-certification/ ;	first Chinese MSC certified fishery
Sea cucumber		None provided	None provided	None provided	Northern part of China	None provided	None provided	N/I, A/G		U.S. Trade data	
krill	trawl, midwater	5	Not applicable	Not applicable	Antarctic Peninsula Subareas 48.1-4	None provided	2016: 1 fur seal released, 2 unspecified seals killed	P, A/G, C/O	CCAMLR	U.S. trade data	

Export Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, albacore, skipjack, yellowfin	longline	374	None provided	None provided	Eastern Tropical Pacific Ocean, Inter-American Tropical Tuna Commission Convention Area	None provided	None provided	A/G, N/I	IATTC	https://www.iattc.org/PDFfiles2/FisheryStatusReports/FisheryStatusReport14.pdf AND https://www.iattc.org/Meetings/Meetings2017/SAC08/PDFs/INF/SAC-08-INF-A(h)-China-Annual-report-2016.pdf ; U.S. Trade data	
tuna, albacore, skipjack, yellowfin, swordfish	longline	None provided	None provided	None provided	South Pacific	None provided	None provided	A/G, N/I		U.S. Trade data	
tuna, albacore, skipjack, yellowfin, swordfish	longline	None provided	None provided	None provided	North Pacific	None provided	None provided	A/G, N/I		U.S. Trade data	
tuna, albacore, skipjack, yellowfin, swordfish	longline	None provided	None provided	None provided	Indian Ocean	None provided	None provided	A/G, N/I		U.S. Trade data	
						striped dolphin, melon-headed whale, false killer whale					
						In 2015, 4 events reported to fisheries authority of China and the vessels involved were	striped dolphin--3 released alive, 9 dead: melon-headed whale 1 release alive; false killer whale--1 released alive			https://www.wcpfc.int/system/files/AR-CCM-03%20China%20AR%20Part%201_1.pdf WCPFC-SC12-AR/CCM-03; PART 1: INFORMATION ON FISHERIES, RESEARCH, AND STATISTICS ; U.S. Trade data https://www.wcpfc.int/system/files/AR-CCM-03%20China%20AR%20Part%201_1.pdf	
tuna, albacore, skipjack, yellowfin, bigeye	purse seine	20	None provided	None provided	Western Central Pacific Ocean, Western Central Pacific Fisheries Commission Convention Area	None provided	None provided	P, A/G		U.S. Trade data	
tuna, albacore, skipjack, yellowfin, bigeye	longline	429	None provided	None provided	Western Central Pacific Ocean, Western Central Pacific Fisheries Commission Convention Area	None provided	None provided	A/G, N/I		U.S. Trade data	
tuna, albacore, skipjack, yellowfin, swordfish	longline	43	None provided	None provided	Atlantic Ocean International Convention for the Conservation of Atlantic Tuna Convention area	None provided	None provided	A/G, N/I	ICCAT	ICCAT SCRS report ; U.S. Trade data	
Tuna: yellowfin, bigeye, albacore	longline	110 (2004 number)	None provided	None provided	Fiji, Marshall Islands, FSM, Tonga, and Palau	None provided	None provided	A/G, N/I			
squid	jigger	456	None provided	None provided	East coast of North Korea	None provided	None provided	A/G, N/I		U.S. Trade data + USTR research	
Export Fisheries with No Information											
Abalone, including pink abalone	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	May be aquaculture only or combined wild capture + aquaculture
Abalone, including pink abalone	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	May be aquaculture only or combined wild capture + aquaculture
Anchovy, including tapertail anchovy	Stow net	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	
Anchovy, including tapertail anchovy	trawl	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	
Barramundi	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
bonito	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
butterfish	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
capelin	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
caviar	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	Likely just aquaculture
Caviar, including sturgeon eggs	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely just aquaculture
Clams, including: Common orient clam, razor, baby clams, mixed clams, ark shell clam	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	May be aquaculture only or combined wild capture + aquaculture
Clams, including: Common orient clam, razor, baby clams, mixed clams, ark shell clam	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	May be aquaculture only or combined wild capture + aquaculture
Conch	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Crab: Dungeness crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture
Crab: gazami crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture
Crab: giant mud crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture
Crab: hairy crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture
Crab: King crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Crab: marine crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: snow crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: swimming crab (Callinectes + Portunidae)	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: Taihu crab	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
crustaceans	Coastal fish pot, gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data	Likely combined wild capture + aquaculture	
Crab: Dungeness crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: gazami crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: giant mud crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: hairy crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: King crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: marine crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: snow crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: swimming crab (Callinectes + Portunidae)	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
Crab: Taihu crab	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research	Likely combined wild capture + aquaculture	
crustaceans	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data	Likely combined wild capture + aquaculture	
Cuttlefish	trawl	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Cuttlefish	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Dolphinfish	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Eels: Japanese conger eel	demersal trawl, fixed traps, hooks, poles, pots	None provided	None provided	None provided	East China Sea	None provided	None provided	N/I	U.S. Trade data ; Eels in China: Species, Fisheries, Stock Management and Culture, by: Shuo-zeng Dou -- Chapter "Eels and Humans" in the series Humanity and the Sea (pp 117-128) https://link.springer.com/chapter/10.1007%2F978-4-431-54529-3_8		
Eels: Japanese conger eel	Aquaculture	None provided	None provided	None provided	East China Sea	None provided	None provided	N/I	U.S. Trade data ; Eels in China: Species, Fisheries, Stock Management and Culture, by: Shuo-zeng Dou -- Chapter "Eels and Humans" in the series Humanity and the Sea (pp 117-128) https://link.springer.com/chapter/10.1007%2F978-4-431-54529-3_8		
flatfish, flounder: stone flounder, starry flounder, barfin flounder, olive flounder	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, halibut	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, halibut	stow net	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, halibut	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, plaice	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, sole	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, sole	trawl	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
flatfish, turbot: Greenland	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
Flathead gray mullet	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
Flathead gray mullet	longline	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
Flathead gray mullet	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish pollock	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish whiting	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish, cod	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish, cod	set net	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish, cusk	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish, haddock	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish, hake	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
groundfish, ocean perch	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
Groupers: banded grouper	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
Herring	purse seine	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Herring	pound net	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Krill: Antarctic	None provided	None provided	None provided	None provided	Russian Federation	None provided	None provided	N/I	U.S. Trade data		
Lobster: rock, homarus spp.	trawl, coastal pot	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Mackerel: Atka mackerel, jack horse mackerel, spotted mackerel	purse seine	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data + USTR research		
Mollusks	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Mollusks	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data	Likely combined wild capture + aquaculture	
monkfish	gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data		
Mussels	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	U.S. Trade data	Likely combined wild capture + aquaculture	

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None provided	None provided	1,037	None provided	None provided	North Korea, Indonesia, Myanmar, Malaysia, Thailand, Bangladesh, and India	None provided	None provided	N/I		ENVIRONMENT AND NATURAL RESOURCES GLOBAL PRACTICE DISCUSSION PAPER #01 TRADE IN FISHING SERVICES Emerging Perspectives on Foreign Fishing Arrangements DECEMBER 2014 WORLD BANK REPORT NUMBER 92622-GLB	
None provided	None provided	133	None provided	None provided	Indonesia	None provided	None provided	N/I		ENVIRONMENT AND NATURAL RESOURCES GLOBAL PRACTICE DISCUSSION PAPER #01 TRADE IN FISHING SERVICES Emerging Perspectives on Foreign Fishing Arrangements DECEMBER 2014 WORLD BANK REPORT NUMBER 92622-GLB	
None provided	None provided	76	None provided	None provided	Guinea	None provided	None provided	N/I		ENVIRONMENT AND NATURAL RESOURCES GLOBAL PRACTICE DISCUSSION PAPER #01 TRADE IN FISHING SERVICES Emerging Perspectives on Foreign Fishing Arrangements DECEMBER 2014 WORLD BANK REPORT NUMBER 92622-GLB	
None provided	None provided	72	None provided	None provided	Myanmar	None provided	None provided	N/I		ENVIRONMENT AND NATURAL RESOURCES GLOBAL PRACTICE DISCUSSION PAPER #01 TRADE IN FISHING SERVICES Emerging Perspectives on Foreign Fishing Arrangements DECEMBER 2014 WORLD BANK REPORT NUMBER 92622-GLB	
None provided	None provided	65	None provided	None provided	Morocco	None provided	None provided	N/I		ENVIRONMENT AND NATURAL RESOURCES GLOBAL PRACTICE DISCUSSION PAPER #01 TRADE IN FISHING SERVICES Emerging Perspectives on Foreign Fishing Arrangements DECEMBER 2014 WORLD BANK REPORT NUMBER 92622-GLB	
None provided	None provided	None provided	Hon Done Pelagic Fis	Mauritania	Mauritania	None provided	None provided	N/I		ENVIRONMENT AND NATURAL RESOURCES GLOBAL PRACTICE DISCUSSION PAPER #01 TRADE IN FISHING SERVICES Emerging Perspectives on Foreign Fishing Arrangements DECEMBER 2014 WORLD BANK REPORT NUMBER 92622-GLB	In 2011, the country agreed to a deal with the Chinese fishing company. The deal gives the Chinese company a 25-year fishing license in exchange for a \$100 million investment for building a processing center that will process 100,000 tons of fish per year, a manufacturing center for traditional fishing vessels, and a training center. The company obtained fishing licenses for 66 of its vessels
Octopus: Shortarm octopus, whiparm octopus (Octopus variabilis)	trawl, bottomers	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	
Octopus: Shortarm octopus, whiparm octopus (Octopus variabilis)	Longline	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	
orange roughy	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Oyster	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Salmon: Atlantic, pink, chum,	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Pacific sauger	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Scallops	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data + USTR research	
Sea cucumber	Aquaculture	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	Sea cucumber farming and ranching is a key part of the aquaculture sector in northern China, including the Liaoning and Shandong Provinces (http://www.fao.org/docrep/007/y5501e/y5501e08.htm)
Sea urchin	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		USTR research	
Seaweed	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Shad	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
shark	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Shellfish	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	Likely combined wild capture + aquaculture
Shrimp: mantis shrimp, giant tiger prawn, Kuruma prawn, whiteleg shrimp	Gillnet	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture
Shrimp: mantis shrimp, giant tiger prawn, Kuruma prawn, whiteleg shrimp	Stow net	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	Likely combined wild capture + aquaculture
Smelts	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	

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snapper (lutjanidae spp.)	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
Sponge	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
squid, including jumbo squid	jigger	None provided	None provided	None provided	Southwest Atlantic.	None provided	None provided	N/I		U.S. Trade data + USTR research	
squid, including jumbo squid	trawl	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data + USTR research	
Sturgeon	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
swordfish	longline	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
toothfish	pot	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
toothfish	longline	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade data	
tuna	None provided	17	None provided	None provided	Cook Islands	None provided	None provided	N/I		U.S. Trade data	

Taiwan/Taipei

Exempt Fisheries											
squid	jig	82	Not applicable	Not applicable	Southwest of Atlantic Ocean (February to May); East Pacific Ocean (whole year)	none provided	none provided			U.S. trade data	U.S. squid jig are category III
saury	jig	82 60 (seasonal targeting and prior authorization required)	Not applicable	Not applicable	Northwest Pacific Ocean (August to November)	none provided	none provided			U.S. trade data	U.S. squid jig are category III
coral, shells, cuttlebone	hand collection		Not applicable	Not applicable	Taiwan waters	none provided	none provided			U.S. trade data	
squid	stick-held dipnet	none provided	Not applicable	Not applicable	none provided	none documented	none documented	N/I, A/G		U.S. trade data	1. Catches harvested from these fisheries in Taiwan are not for export to the U.S.A. 2. Similar gear type with jig should be classified as "exempt fishery"
Export Fisheries											
tuna - albacore, big eye, yellowfin, dolphinfish	Longline (large scale)	73	Not applicable	Not applicable	Western Central Pacific Fisheries Commission Convention Area	false killer whale, unidentified dolphins, unidentified whales	8, 27, 4	P, A/G	WCPFC	https://www.wcpfc.int/system/files/AR-CCM-23%20CHINESE%20TAIPEI%20PART%201%20Rev%201%20%284%20July%202016%29.pdf	WCPFC: source MSRA; WCPFC report shows 2 cetacean mortalities in 2014 (1 bottlenose dolphin & 1 false-killer whale) and 1 mortality in 2015 (false-killer whale).
tuna - yellowfin, billfish, swordfish, big eye, dolphinfish	Longline (small scale)	1275	Not applicable	Not applicable	Western Central Pacific Fisheries Commission Convention Area	false killer whale, unidentified dolphins, unidentified whales	8, 27, 4	P, A/G	WCPFC	https://www.wcpfc.int/system/files/AR-CCM-23%20CHINESE%20TAIPEI%20PART%201%20Rev%201%20%284%20July%202016%29.pdf	WCPFC: source MSRA; WCPFC report shows 2 cetacean mortalities in 2014 (1 bottlenose dolphin & 1 false-killer whale) and 1 mortality in 2015 (false-killer whale).
tuna - skipjack, yellowfin, big eye	Purse seine	34	Not applicable	Not applicable	Western Central Pacific Fisheries Commission Convention Area (primarily EEZs of PICs)	unidentified dolphins	23 (2014), 52 (2015), 28 (2016)	P, A/G	WCPFC	https://www.wcpfc.int/system/files/AR-CCM-23%20CHINESE%20TAIPEI%20PART%201%20Rev%201%20%284%20July%202016%29.pdf	WCPFC: sources MSRA & Taiwan submission; WCPFC report states 3 unidentified dolphin mortalities in 2014 and 2 unidentified dolphins mortalities in 2015 (preliminary 2015 data).
tuna	Longline	85	Not applicable	Not applicable	Inter-American Tropical Tuna Commission Convention Area	none provided	none provided	A/G	IATTC	U.S. trade data	IATTC: source MSRA
tuna	Longline	295	Not applicable	Not applicable	Indian Ocean Tuna Commission Convention Area	none provided	none provided	A/G	IOTC	U.S. trade data	IOTC: source MSRA
tuna, billfish, dolphin fish, shark, marine fish	Longline	1,348	Not applicable	Not applicable	Pacific Ocean	cetaceans	26 (2015), 14 (2016)	P, A/G		U.S. trade data	"The Wildlife Conservation Act (WCA) was enacted on 23 June 1989 (last amendment on 23 January 2013). All species of cetacean found in the surrounding waters of Taiwan are included in the list of protected species (category 1) hunting, trading or possessing of which shall be prohibited."
tuna, billfish, dolphin fish, shark, marine fish	Longline	321	Not applicable	Not applicable	Indian Ocean	cetaceans	1 (2015), 1 (2016)	P, A/G		U.S. trade data	
tuna, billfish, dolphin fish, shark, marine fish	Longline	84	Not applicable	Not applicable	International Convention for the Conservation of Atlantic Tuna Convention Area	cetaceans	2 (2015), 2 (2016)	P, A/G		U.S. trade data	

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Mackerel, Jack/Horse Mackerel, bonito	Taiwanese seine	60 groups of Taiwanese seine purse seine vessels	Not applicable	Not applicable	north and southwest waters of Taiwan, in waters above 24 degree North Latitude and in southwest waters of Taiwan	none provided	none provided	N/I, A/G		U.S. trade data	1. Taiwanese seine is operated with lamp vessels and net vessels, all using set fish lamps. When fish group flock together, the net vessel sails toward the lamp vessel with its lamps off, setting nets and encircle the lamp vessels with nets. When the nets are hoisted up closer to the lamp vessels, the latter then turn off the lamp to allow the fish getting into the stow nets, pulling up the catch onto the deck with steel rope and take out the catch. 2. Catches harvested from these fisheries in Taiwan are not for export to the U.S.A.
Multi-species, including spanish mackerel, snappers, crabs, cephalopod, sharks, and mullet, harvested in different seasons	gillnet (set and drift), trammel nets, trawl nets	12,378, most of them are artisanal	Not applicable	Not applicable	Surrounding waters of Taiwan, including eastern Taiwan Strait	Indo-Pacific humpback dolphin (Sousa chinensis)	1 (2009)	P, C/O, N/I		Slooten et al (2013) http://www.int-res.com/articles/esr2014/22/n022p099.pdf	PBR of 0.13 or 0.14 ind. yr ⁻¹ , or no more than 1 human-caused dolphin death every 7 to 7.6 yr. Catches harvested from these fisheries in Taiwan are not for export to the U.S.A.
Multi-species including Mackerel, tuna, Mahi-Mahi	set traps	63	Not applicable	Not applicable	Taiwan nearshore	small coastal cetaceans	none provided	P, C/O, N/I		Slooten et al (2013)	Catches harvested from these fisheries in Taiwan are not for export to the U.S.A.
Japanese anchovy, Oceanic anchovy, Eel larvae	stow nets	156	Not applicable	Not applicable	Estuaries and coast of Taiwan	small coastal cetaceans	none provided	P, C/O, N/I			Catches harvested from these fisheries in Taiwan are not for export to the U.S.A.
Cephalopods, crabs, Benthic species	trawl	1,206	Not applicable	Not applicable	Territorial sea of Taiwan, including eastern Taiwan Strait	none provided	none provided	N/I			Taiwan regulations: "Trawl fishing vessels are not allowed to operate, set, or haul the net within the area three nautical miles from the shore. Moreover, trawl fishing vessels over fifty metric tons are not allowed to operate, set, or haul the net within the area twelve nautical miles from the shore."

Colombia

Export Fisheries

groundfish, dolphinfish, snapper, grouper, sawfish, wreckfish, mackerel	gillnet	38 (number unconfirmed by Colombia)	Not applicable	Not applicable	Pacific Economic Zone, Colombian Caribbean and insular areas of San Andrés, Providencia and Santa	None provided, Pygmy sperm whale, Tucuxi, bottlenose dolphins, Risso's dolphin, spotted dolphins	None provided	A/G, N/I		Young and Iudicello at AA-18	There was the capture of one individual taken in a coastal gillnet fishery in the Gulf of Morrosquillo, Colombia in 1988, Tucuxi are taken in gillnet fisheries in the mouth of the Sinu River.
groundfish, dolphinfish, snapper, grouper, sawfish, wreckfish, mackerel, swordfish	longline	38 (number unconfirmed by Colombia)	Not applicable	Not applicable	Pacific Economic Zone, Colombian Caribbean and insular areas of San Andrés, Providencia and Santa	None provided	None provided	A/G, N/I		U.S. trade data	the Gulf of Morrosquillo, Colombia, in 1988
shrimp (deep-water)	trawl	8	Not applicable	Not applicable	In the colombian Pacific: Shallow and Deep waters up to 120 fathoms	None documented	None provided	A/G, N/I		Colombian submission INVEMAR "Estimación de las capturas incidentales de la pesca de arrastre de camarón en Colombia. Resultados del monitoreo a bordo y en puerto del recurso de camarón". Informe Técnico 2017.	Wild shrimp fished by the Colombia's trawl fleet is exported to the European Union, mainly Spain, because the process and the species, processed on board and sent in one piece, have the market space primarily towards that world's region. Shallow-water shrimp traded in tails is currently sold in the national market, but it has been traditionally exported to the United States. Shrimp was last exported to the U.S. in 2015
shrimp (shallow, white, pink, and chocolate)	trawl	51	Not applicable	Not applicable	In the colombian Pacific: Shallow and Deep waters up to 120 fathoms and colombian Caribbean: shallow waters up to 40 fathoms of depth.	bottlenose dolphins	None provided	P, A/G, N/I		Colombian submission, Young and Iudicello at A-20 INVEMAR "Estimación de las capturas incidentales de la pesca de arrastre de camarón en Colombia. Resultados del monitoreo a bordo y en puerto del recurso de camarón". Informe Técnico 2017.	Wild shrimp fished by the Colombia's trawl fleet is exported to the European Union, mainly Spain, because the process and the species, processed on board and sent in one piece, have the market space primarily towards that world's region. Shallow-water shrimp traded in tails is currently sold in the national market, but it has been traditionally exported to the United States. Shrimp was last exported to the U.S. in 2015

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna, yellowfin, bigeye, skipjack	purse seine	2 (less than 363 short tons)	Not applicable	Not applicable	Eastern Tropical Pacific	Offshore spotted dolphin, Northeastern Western-southern Spinner dolphin, Eastern and Whitebelly, Common dolphin, northern, central, southern	None provided	P, C/O, A/G	(IATTC/AIDCP)	Colombian submission, https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf .	any vessels under 400 short tons must apply for a comparability finding-- (14 total vessels 12 with DML for which this rule does not apply) 2014 DML (Dolphin Mortality Limit) assigned 649; 2015 DML assigned 604; 2016 DML assigned 561 Fishing motorships performing harvests of albacore tuna fishing (Thunnus alalunga), with a capacity of less than 300 tons, mainly apply the longline method for their catch. These vessels operate in different areas, zones FAO 31, 41, because tuna is a migratory fish. Its catch is done primarily between September and December in the zone FAO 31, and from February to August in the zone FAO 41. Colombia has access agreements with ICCAT members, but no recent catches from their own vessels reported to ICCAT
Tuna, albacore	longline	none provided	Not applicable	Not applicable	western central and southwest Atlantic	None provided	None provided	N/I, A/G		Colombian submission	
Export Fisheries with No Information											
conch	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I			
crab, lobster	pot, trap	None provided	None provided	None provided	None provided	None provided	None provided	N/I			
molluscs	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I			
sea cucumbers	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I			
Cook Islands											
Exempt Fisheries											
Clam	aquaculture	not applicable	none provided	Pacific Ocean	Cook Islands EEZ	None documented	None documented		Marine Resources Act 2005		Exports To US ceased in 2016
Export Fisheries											
Alfonsino / Orange Roughy	trawl	2	not applicable	Indian Ocean	Southern Indian Ocean	whales present in area, species not provided	None documented	A/G, C/O	SIOFA	U.S. trade data; Observer reports from 2015/16	
tuna (bigeye, yellowfin, albacore), swordfish	longline	9	not applicable	Pacific Ocean	Cook Islands EEZ	Pilot Whale, Spinner Dolphin, Risso's Dolphin, Bottlenose Dolphin (4 interactions 2010-2015)	None documented	P, A/G	WCPFC	Marine mammal bycatch derived from Observer reports 2010-2015, http://www.mmr.gov.ck/publications/annual-reports	Cook Islands longline vessels stopped exporting product directly to the continental United States before 2010. Most Longline vessels unload product into Apia (75% of Cook Islands Licensed LL Vessels), Pago Pago (20%) and Rarotonga (5%)
Tuna, skipjack	purse seine	20	not applicable	Pacific Ocean	Cook Islands EEZ	None provided	None provided	N/I, A/G	WCPFC	Marine Mammal data is held by SPC for all purse seine vessels, http://www.mmr.gov.ck/publications/annual-reports	The Purse seine fishery in the Cook Islands EEZ is mostly conducted by US vessels based in Pago Pago, fishing pursuant to the Multilateral Treaty with PIPs and unloading in American Samoa. Pursuant to the Sustainable Fisheries Partnership Agreement, in 2017, 2 EU PS vessels fish into Cook Islands EEZ and unload at Manta, Ecuador and Pago Pago, AS.
Costa Rica											
Exempt Fisheries											
Salmon, Atlantic	aquaculture	none provided	Not applicable	Not applicable	none provided	Not applicable	Not applicable				
Squid	pointer/trawl	352	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8445	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	
Crab, lobster, rock	pots	432	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8447	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	
Snapper	Aquaculture	14 marine aquaculture cages	MARTEC, FRUMAR	1 producer	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8444	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	
Export Fisheries											
Bonito	gillnet	939	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8437	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	PMT, MARTEC, FRUMAR, ALIMENTOS PROSALUD
Dolphinfish	longline	350	Not applicable	Not applicable	Eastern Tropical Pacific, Tropical Atlantic	None provided	None provided	A/G	Fisheries and Aquaculture Law 8437	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Companies: PMT, MARTEC, FRUMAR
Eels, flatfish, sole, bonito	line	939	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8438	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	
flatfish, sole	gillnet/trawl	1141	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8438	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	
Grouper, snapper	longline, bottom	2081	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8440	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Companies: MARTEC, FRUMAR
Grouper, mackerel (atka, jack, horse)	gillnet	2081	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8440	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Companies: MARTEC, FRUMAR
Crab, lobster, rock	gillnet	432	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8447	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Sardine	purse seine	2	Not applicable	Not applicable	Eastern Tropical Pacific, Gulf of Nicoya	None provided	None provided	A/G	Fisheries and Aquaculture Law 8442	Database of the Costa Rican Institute of Fisheries and Aquaculture; http://www.fao.org/ft/oldsite/FCP/en/cr/profile.htm ; U.S. Trade Database	Companies: PMT, MARTEC, FRUMAR, ALIMENTOS PROSALUD
Shark, swordfish	longline, surface	293	Not applicable	Not applicable	Eastern Tropical Pacific, Tropical Atlantic	None provided	None provided	A/G	Fisheries and Aquaculture Law 8443	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Costa Rica Has initiated a program with forms to determine the documentary traceability of shark in these forms is requested information on mortality of birds, turtles and marine mammals. Same fleet for both Pacific and Atlantic
Snapper	longline, mid-water	200 vessels	Not applicable	1 producer	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8444	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Same fleet for both line and gillnet
Snapper	gillnet	200 vessels	Not applicable	1 producer	Eastern Tropical Pacific	None provided	None provided	A/G	Fisheries and Aquaculture Law 8444	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Same fleet for both line and gillnet
Tuna, yellowfin, bigeye, marlin	longline	353 long line vessels	Not applicable	Not applicable	Eastern Tropical Pacific, Inter-American Tropical Tuna Commission Convention Area	None provided	None provided	A/G	Fisheries and Aquaculture Law 8447	Database of the Costa Rican Institute of Fisheries and Aquaculture; http://www.fao.org/ft/oldsite/FCP/en/cr/profile.htm ; U.S. Trade Database	Costa Rica Has initiated a program with forms to determine the documentary traceability of shark in these forms is requested information on mortality of birds, turtles and marine mammals. Foreign tuna fishing vessels provide observer information when delay tuna in CR, there is dolphin safe. Companies: PMT, MARTEC, FRUMAR, ALIMENTOS PROSALUD. In addition, + 40 or 30 foreign tuna vessels licenses.
Tuna, yellowfin, bigeye	Purse seines	30 to 40 foreign vessels fishing under a license agreement	Not applicable	Not applicable	Eastern Tropical Pacific, Inter-American Tropical Tuna Commission Convention Area	None provided	None provided	A/G	Fisheries and Aquaculture Law 8447	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	***Costa Rica submitted "long line/purse seine - 353 long line vessels" so it's not clear if there are any operating PS vessels or if they are multi gear Costa Rica Has initiated a program with forms to determine the documentary traceability of shark in these forms is requested information on mortality of birds, turtles and marine mammals. Foreign tuna fishing vessels provide observer information when delay tuna in CR, there is dolphin safe. Companies: PMT, MARTEC, FRUMAR, ALIMENTOS PROSALUD. In addition, + 40 or 30 foreign tuna vessels licenses.
Groundfish	longline	66	Not applicable	Not applicable	Eastern Tropical Pacific	none provided	none provided	A/G	Fisheries and Aquaculture Law 8444	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	Costa Rica Has initiated a program with forms to determine the documentary traceability of shark in these forms is requested information on mortality of birds, turtles and marine mammals. Companies: PMT, MARTEC, FRUMAR
Shrimp	trawl	202 vessels	Not applicable	84 producer	Eastern Tropical Pacific, South Atlantic	None provided	None provided	A/G	Fisheries and Aquaculture Law 8447	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	In Costa Rica, the use of turtle excluders is mandatory for many years and the fish excluder is also used today for shrimp trawlers Vessel count is for both/all gillnet and trawlers (202 total)
Shrimp	gillnet	202 vessels	Not applicable	84 producer	Eastern Tropical Pacific, South Atlantic	None provided	None provided	A/G	Fisheries and Aquaculture Law 8447	Database of the Costa Rican Institute of Fisheries and Aquaculture; U.S. Trade Database	In the case of shrimp extracted by the small-scale fleet, a 3-inch mesh light trammel Vessel count is for both/all gillnet and trawlers (202 total)

Croatia

Exempt Fisheries											
Tuna (bluefin)	aquaculture	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data FAO 2015 - http://www.fao.org/fishery/countrysector/naso_croatia/en	
mussel and oyster	marine aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	N/I		FAO 2015 - http://www.fao.org/fishery/countrysector/naso_croatia/en	
finfish (seabass, seabream, turbot, meagre, dentex)	marine aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	N/I			
Export Fisheries											
tuna (albacore, yellowfin, bluefin - Atlantic and Pacific)	Purse Seine	157 vessels, 46 of which are large scale	none provided	none provided	Mediterranean	none provided	none provided	N/I, A/G		U.S. Trade Data, ICCAT Data	
Export Fisheries with No Information											
caviar	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
mackerel (jack, horse)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
sardine	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
sponge	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
none provided	gillnet	none provided	not applicable	not applicable	none provided	odontocete cetacean	at least 1 between 1990 and 2011	N/I, P, C/O, A/G		Reeves et al 2013 - http://www.int-res.com/articles/esr_oa/n020p071.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Cyprus											
Exempt Fisheries											
European seabass	aquaculture (cages)	3-5	PolarCirkel, Dunlop, Bridgestone, FarmOcean, others	not applicable	Eastern Mediterranean Sea, Levant area (FAO division 37.3.2)	None documented	None documented	A/G		EU-provided	
Gilthead seabream	aquaculture (cages)	3-5	PolarCirkel, Dunlop, Bridgestone, FarmOcean, others	not applicable	Eastern Mediterranean Sea, Levant area (FAO division 37.3.2)	None documented	None documented	A/G		EU-provided	
Export Fisheries											
Atlantic bluefin tuna	longline	4-19	not applicable	not applicable	Eastern Mediterranean Sea, Levant area (FAO division 37.3.2)	none provided	none provided	A/G		EU-provided	16 vessels fishing in 2017, vessel numbers have ranged from 4-19
swordfish	longline	27	not applicable	not applicable	Eastern Mediterranean Sea, Levant area (FAO division 37.3.2)	none provided	none provided	A/G		EU-provided	27 vessels fishing in 2017, vessel numbers have ranged from 22-30
Atlantic bluefin tuna	purse seine	1	not applicable	not applicable	Eastern Mediterranean Sea, Levant area (FAO division 37.3.2)	none provided	none provided	A/G		EU-provided	
Denmark											
Exempt Fisheries											
Atlantic Cod	Hand and Pole-lines	5-30	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O		EU-provided	5 vessels in 2016, range of 5-30 vessels 2011-16
Haddock, common sole, lumpfish	Hand and Pole-lines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Atlantic Herring	Hand and Pole-lines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Mackerel (Atlantic)	Hand and Pole-lines	3-7	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	7 vessels in 2015, range of 3-7 vessels 2011-15
North Deepwater Prawn	Hand and Pole-lines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
blue mussel	dredge	none provided	not applicable	not applicable	Limfjorden, Isefjord, east coast Jylland	none provided	none provided	N/I		Denmark provided Annex 2 "MSC-certified fisheries"	
blue mussel	aquaculture (lines)	29	none provided	not applicable	Limfjorden	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	29 farms in 2015, range from 29-45 from 2011-15
kelp	aquaculture (lines)	1 region	none provided	not applicable	Central Denmark Region	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
Export Fisheries											
Atlantic Cod	Bottom Otter Trawl	257-315	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	257 vessels in 2016, range of 257-315 vessels 2011-16
Atlantic Cod	Bottom Pair Trawl	5-23	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O		EU-provided	5 vessels in 2016, range of 5-23 vessels 2011-16
Atlantic Cod	Danish Seine	24-35	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea and Skagerrak	marine mammal interactions indicated, species not provided	none documented	C/O		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries"	24 vessels in 2016, range of 24-35 vessels 2011-16
Atlantic Cod	Drifting Lines	2-8	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	rarely, predominantly harbor porpoise	P, A/G		EU-provided	2 vessels in 2016, range of 2-8 vessels 2011-16
Atlantic Cod	gillnet	152-237	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea and Skagerrak	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries", Cetacean Bycatch Appendix	152 vessels in 2016, range of 152-237 vessels 2011-16 Denmark estimated mortality as "occasionally"

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification **	RFMO or Legal Protection Measures	References	Detailed Information
								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
Atlantic Cod	longline	11-37	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): Eastern Baltic east of Bornholm Island	marine mammal interactions indicated, species not provided	none documented	P, A/G		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries"	11 vessels in 2016, range of 11-37 vessels 2011-16
Atlantic Cod	Pelagic Pair Trawl	6-10	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	6 vessels in 2016, range of 6-10 vessels 2011-16
Atlantic Cod	Pound-Nets	21-36	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal, humpback whale	rarely, bycatch often released	P, A/G		EU-provided, Denmark provided Annex 1 "comments", IWC 2011 (Humpback whale)	mammal bycatch often released, 21 vessels in 2016, range of 21-36 vessels 2011-16
Atlantic Cod	Purse Seine	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Atlantic Cod	gillnet, sets	62-101	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries", Cetacean Bycatch Appendix	70 vessels in 2016, range of 62-101 vessels 2011-16
Atlantic Cod	troll	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Atlantic Cod, common sole	Trawl	17-32	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea and Skagerrak, Eastern Baltic east of Bornholm Island	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	32 vessels in 2016, range of 13-32 vessels 2011-16
Atlantic cod, Common Sole, lumpfish	Boat Dredges	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	1 vessels in 2012, range of 1-2 vessels 2011-12
Atlantic cod, Common Sole, lumpfish, turbot	Traps/pots	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	1 vessel 2015, range of 1-3 vessels 2011-15
Atlantic cod, Common Sole, turbot, lumpfish, brown (sea) trout	Combined gillnet-trammel nets	1-7	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	1 vessel in 2016, range of 1-7 vessels 2013-16, Denmark estimated mortality as "occasionally"
Atlantic Cod, haddock	Set Lines	1-5	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	rarely	P, A/G		EU-provided	1 vessel in 2015, range of 1-5 vessels 2011-15
Atlantic Cod, haddock, common Sole, turbot	trawl, bottom	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	2 vessels in 2016, range of 1-3 vessels 2012-16
Atlantic Cod, haddock, common sole, turbot, lumpfish	Twin Trawl	1-4	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	4 vessels in 2016, range of 1-4 vessels 2011-16
Atlantic Cod	Pelagic Otter Trawl	5-20	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	6 vessels in 2016, range of 1-20 vessels 2011-16
haddock, lumpfish, common sole, turbot	Pelagic Otter Trawl	1-7	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	
Atlantic Cod, haddock, turbot	Scottish Seines	3-8	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	7 vessels in 2016, range of 3-8 vessels 2011-16
Atlantic Cod, turbot	Beam Trawl	1-4	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	4 vessels in 2016, range of 1-4 vessels 2012-16
Turbot	Trammel nets	52-64	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	71 vessels in 2016, range of 72-80 vessels 2011-16
Atlantic Cod, turbot, lumpfish	Drift Nets	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries", Cetacean Bycatch Appendix	no estimate of mortality provided by Denmark
Haddock	Danish Seine	17-31	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea, Skagerrak, Kattegat	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries"	17 vessels in 2016, range of 17-29 vessels 2011-16

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Haddock	gillnet	11-21	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea, Skagerrak, Kattegat	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Denmark provided Annex 2 "MSC-certified fisheries", Cetacean Bycatch Appendix	11 vessels in 2016, range of 11-21 vessels 2011-16, Denmark estimated mortality as "occasionally"
Haddock	longline	3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Haddock	Pound-Nets	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	
Haddock	Trammel nets	6-16	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	10 vessels in 2016, range of 6-16 vessels 2011-16
Haddock, Common sole, lumpfish	Beam Trawl	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	2 vessels in 2016, range of 1-3 vessels 2011-16
Haddock, Common Sole, lumpfish	Bottom Pair Trawl	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	2 vessels in 2016, range of 1-3 vessels 2011-16
Haddock	Bottom Otter Trawl	144-167	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	168 vessels in 2016, range of 144-208 vessels 2011-16
Common Sole	Bottom Otter Trawl	161-208	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G			
turbot	Bottom Otter Trawl	155-183	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G			
Haddock, lumpfish	gillnet, sets	10-27	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	15 vessels in 2016, range of 10-27 vessels 2011-16, Denmark estimated mortality as "occasionally"
Haddock, turbot	Trawl	5-25	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea, Skagerrak, Kattegat	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	25 vessels in 2016, range of 5-25 vessels 2011-16
Common Sole	Danish Seine	4-11	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	6 vessels in 2016, range of 4-11 vessels 2011-16
Common Sole	Pound-Nets	4-6	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	bycaught mammals often released, 4 vessels in 2016, range of 4-6 vessels 2011-16
Common Sole	Trammel nets	47-54	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	48 vessels in 2016, range of 47-54 vessels 2011-16
Common Sole, lumpfish	Scottish Seines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Common Sole, turbot	gillnet	76-145	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	80 vessels in 2016, range of 76-145 vessels 2011-16, Denmark estimated mortality as "occasionally"
Common Sole, turbot	longline	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	1 vessel in 2016, range of 1-2 vessels 2011-16
Common Sole, turbot	Pelagic Pair Trawl	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	3 vessels in 2013, range of 1-3 vessels 2011-13
Common Sole, turbot	gillnet, sets	34-54	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	49 vessels in 2016, range of 34-54 vessels 2011-16
Turbot	Bottom Pair Trawl	1-6	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	1 vessel in 2016, range of 1-6 vessels 2011-16
Turbot	Danish Seine	10-13	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	12 vessels in 2016, range of 10-13 vessels 2011-16
Turbot	Pound-Nets	14-23	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely, animal often released	P, A/G		EU-provided	bycaught mammals often released, 14 vessels in 2016, range of 14-23 vessels 2011-16
Greenland Halibut	Bottom Otter Trawl	1-5	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	5 vessels in 2016, range of 1-5 vessels 2011-16
Greenland Halibut	Danish Seine	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification **	RFMO or Legal Protection Measures	References	Detailed Information
								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
Greenland Halibut	gillnet	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal marine mammal	occasionally	P, A/G		EU-provided	
Greenland Halibut	Trammel nets	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	
Greenland Halibut, lumpfish	Trawl	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	
Lumpfish	Bottom Otter Trawl	20-47	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	33 vessels in 2016, range of 20-47 vessels 2011-16
Lumpfish	Danish Seine	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Lumpfish	gillnet	52-91	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	bycaught mammals often released, 64 vessels in 2016, range of 52-91 vessels 2011-16, Denmark estimated mortality as "occasionally"
Lumpfish	Pound-Nets	2-9	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	8 vessels in 2016, range of 2-9 vessels 2011-16
Lumpfish	Trammel nets	26-31	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal marine mammal	occasionally	P, A/G		EU-provided	28 vessels in 2016, range of 19-31 vessels 2011-16
Atlantic Herring	Bottom Pair Trawl	1-6	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	2 vessels in 2016, range of 1-6 vessels 2011-16
Atlantic Herring	Drift Nets	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	
Atlantic Herring	gillnet	8-16	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	8 vessels in 2016, range of 8-16 vessels 2011-16, Denmark estimated mortality as "occasionally"
Atlantic Herring	Pelagic Pair Trawl	14-29	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	rarely	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	22 vessels in 2016, range of 14-29 vessels 2011-16
Atlantic Herring	Pound-Nets	21-25	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	occasionally, animal often released	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	bycatch animals often released, 23 vessels in 2016, range of 21-25 vessels 2011-16
Atlantic Herring	gillnet, sets	2-4	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	2 vessels in 2016, range of 2-4 vessels 2011-16
Atlantic Herring	Trammel nets	2-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	2 vessels in 2016, range of 2-3 vessels 2011-16
Atlantic Herring	Traps/pots	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	1 vessels in 2013, range of 1-3 vessels 2011-13
Atlantic Herring, sprat	Bottom Otter Trawl	7-61	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	40 vessels in 2016, range of 7-60 vessels 2011-16
Atlantic Herring, sprat	trawl, bottom	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	1 vessels in 2016, range of 1-2 vessels 2011-16
Atlantic Herring, sprat	Pelagic Otter Trawl	17-57	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale marine mammal	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	55 vessels in 2016, range of 37-57 vessels 2011-16
Atlantic Herring, sprat	Purse Seine	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	2 vessels in 2016, range of 1-3 vessels 2011-16
Atlantic Herring, sprat	Scottish Seines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	
Atlantic Herring, sprat	Trawl	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	
Sprat	Bottom Pair Trawl	2-17	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided marine mammal	none documented	C/O, A/G		EU-provided	2 vessels in 2016, range of 2-17 vessels 2011-16
Sprat	Danish Seine	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Sprat	Pelagic Pair Trawl	25-54	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	25 vessels in 2016, range of 25-54 vessels 2011-16

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification **	RFMO or Legal Protection Measures	References	Detailed Information
								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
Sprat	Pound-Nets	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	bycatch animals often released
Mackerel (horse)	Pound-Nets	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	none documented	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	bycatch animals often released, 7 vessels in 2016, range of 1-16 vessels 2011-16
Mackerel (Atlantic)	Pound-Nets	7-16	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely				
Mackerel (horse)	Pelagic Otter Trawl	1-17	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided	41 vessels in 2016, range of 1-41 vessels 2011-16
Mackerel (Atlantic)	Pelagic Otter Trawl	8-41	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G			
Mackerel (Atlantic, horse)	Pelagic Pair Trawl	1-9	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, pilot whale	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	6 vessels in 2016, range of 1-6 vessels 2011-16
Mackerel (Atlantic, horse)	Scottish Seines	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	3 vessels in 2016, range of 1-3 vessels 2013-16
Mackerel (Atlantic, horse)	gillnet, sets	1-11	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	11 vessels in 2016, range of 1-11 vessels 2011-16, Denmark estimated mortality as "occasionally"
Mackerel (Atlantic, horse)	Trawl	1-5	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	5 vessels in 2016, range of 1-5 vessels 2011-16
Mackerel (horse)	Beam Trawl	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Mackerel (horse)	Bottom Otter Trawl	3-20	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	20 vessels in 2016, range of 3-20 vessels 2013-16
Mackerel (horse)	Bottom Pair Trawl	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Mackerel (Atlantic)	Bottom Otter Trawl	13-74	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	74 vessels in 2016, range of 15-74 vessels 2011-16
Mackerel (Atlantic)	Combined gillnet-trammel nets	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	Denmark estimated mortality as "occasionally"
Mackerel (Atlantic)	Danish Seine	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Mackerel (Atlantic)	Drift Nets	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	Denmark provided no estimate of mortality
Mackerel (Atlantic)	Drifting Lines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	rarely	P, A/G		EU-provided	
Mackerel (Atlantic)	gillnet	11-26	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G		EU-provided, Cetacean Bycatch Appendix	16 vessels in 2016, range of 11-26 vessels 2011-16, Denmark estimated mortality as "occasionally"
Mackerel (Atlantic)	longline	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Mackerel (Atlantic)	Other Lines/Hooks	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	
Mackerel (Atlantic)	Purse Seine	2-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	interactions indicated, species not provided	none documented	C/O, A/G		EU-provided	3 vessels in 2016, range of 2-3 vessels 2011-16
Mackerel (Atlantic)	Trammel nets	7-11	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G		EU-provided	9 vessels in 2016, range of 6-11 vessels 2011-16
Mackerel (Atlantic)	Traps/pots	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	occasionally	P, A/G		EU-provided, Denmark provided Annex 1 "comments"	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Mackerel (Atlantic)	Troll	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		1 vessel in 2015, range of 1-3 vessels 2011-15
Mackerel (Atlantic)	Twin Trawl	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		
North Deepwater Prawn	Bottom Otter Trawl	1	not applicable	not applicable	Northwest Atlantic Ocean (FAO zone 21)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		
North Deepwater Prawn	Bottom Otter Trawl	1-14	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		9 vessels in 2016, range of 9-12 vessels 2011-16
North Deepwater Prawn	Pelagic Otter Trawl	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G	EU-provided		
North Deepwater Prawn	Trawl	1	not applicable	not applicable	Northwest Atlantic Ocean (FAO zone 21)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		
North Deepwater Prawn	Trawl	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		1 vessel in 2016, range of 1-2 vessel 2012-16
Atlantic Salmon	Bottom Otter Trawl	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		wild caught, 1 vessel in 2016, range of 1-3 vessels 2011-16
Atlantic Salmon	Danish Seine	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		wild caught
Atlantic Salmon	Drifting Lines	9-18	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	rarely	P, A/G	EU-provided		wild caught, 9 vessels in 2016, range of 9-18 vessels 2011-16
Atlantic Salmon	gillnet	1-5	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G	EU-provided, Cetacean Bycatch Appendix		wild caught, 1 vessel in 2016, range of 1-5 vessels 2011-16, Denmark estimated mortality as "occasionally"
Atlantic Salmon	longline	2-6	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		wild caught, 6 vessels in 2016, range of 2-6 vessels 2011-16
Atlantic Salmon	Pound-Nets	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	common seal	none documented	C/O, A/G	EU-provided, Denmark provided Annex 1 "comments"		wild caught, 1 vessel in 2016, range of 1-2 vessels 2015-16
Atlantic Salmon	gillnet, sets	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G	EU-provided, Cetacean Bycatch Appendix		wild caught, 1 vessel in 2016, range of 1-2 vessels 2014-16, Denmark estimated mortality as "occasionally"
Atlantic Salmon	Set Lines	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		wild caught
Atlantic Salmon	Trammel nets	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G	EU-provided		wild caught
Brown (Sea) trout	Bottom Otter Trawl	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		
Brown (Sea) trout	Drifting Lines	2-8	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	rarely	P, A/G	EU-provided		wild caught, 4 vessels in 2016, range of 2-8 vessels 2011-15
Brown (Sea) trout	gillnet	11-32	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G	EU-provided, Cetacean Bycatch Appendix		wild caught, 11 vessels in 2016, range of 11-32 vessels 2011-16, Denmark estimated mortality as "occasionally"
Brown (Sea) trout	longline	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		wild caught, 1 vessel in 2014, range of 1-2 vessel 2011-14
Brown (Sea) trout	Pound-Nets	10-23	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal, common seal	rarely	P, A/G	EU-provided, Denmark provided Annex 1 "comments"		wild caught, bycatch animals often released, 10 vessels in 2016, range of 10-23 vessels 2011-16
Brown (Sea) trout	Scottish Seines	2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU-provided		wild caught
Brown (Sea) trout	gillnet, sets	5-11	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	harbor porpoise mortality in the thousands	P, A/G	EU-provided, Cetacean Bycatch Appendix		wild caught, 8 vessels in 2016, range of 5-11 vessels 2011-16, Denmark estimated mortality as "occasionally"
Brown (Sea) trout	Trammel nets	2-10	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise, harbor seal, gray seal	occasionally	P, A/G	EU-provided		wild caught, 3 vessels in 2016, range of 3-10 vessels 2011-16
Norway lobster	trawl	none provided	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): Skagerrak, Kattegat	none provided	none provided	N/I	Denmark provided Annex 2 "MSC-certified fisheries"		

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
flounder	trawl	none provided	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea, Skagerrak	none provided	none provided	N/I		Denmark provided Annex 2 "MSC-certified fisheries"	
flounder	Danish Seine	none provided	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea, Skagerrak	none provided	none provided	N/I		Denmark provided Annex 2 "MSC-certified fisheries"	
flounder	gillnet	none provided	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27): North Sea, Skagerrak	none provided	none provided	N/I		Denmark provided Annex 2 "MSC-certified fisheries"	
Export Fisheries with No Information											
Atlantic Cod	AHB (unknown gear type)	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	
Atlantic Cod	Other	12-22	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	19 vessels in 2016, range of 12-22 vessels 2011-16
Atlantic Cod	Other Lines/Hooks	3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	
Atlantic cod, Common Sole, lumpfish, turbot	Unknown	1-4	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none provided	N/I		EU-provided	1 vessel in 2016, range of 1-4 vessels 2011-16
Haddock	Other	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	
Common Sole, turbot	Other	1-6	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	6 vessels in 2016, range of 1-6 vessels 2011-16
Lumpfish	Other	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	2 vessels in 2016, range of 1-3 vessels 2011-16
Atlantic Herring, sprat	Other	4	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	4 vessels in 2016, range of 1-4 vessels 2011-16
Atlantic Herring, sprat	Unknown	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	
Mackerel (Atlantic)	KLM	1	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	
Mackerel (Atlantic)	Other	1-2	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	1 vessel in 2016, range of 1-2 vessels 2011-16
Rainbow trout	aquaculture (seawater)	19	none provided	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	inland saltwater or coastal? MM interactions?
Brown (Sea) trout	Other	1-3	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	marine mammal interactions indicated, species not provided	none documented	N/I		EU-provided	wild caught, 2 vessels in 2016, range of 1-3 vessels 2011-16
megrin (flatfish)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
halibut	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
little redfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
boarfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
lemon sole	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
grenadier	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
sand lance	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		Denmark provided Annex 3 "Danish Fishery Yearbook"	
snow crab	none provided	none provided	none provided	none provided	none provided	bowhead whale	2	N/I		U.S. Trade Data, IWC 2011	

Dominican Republic

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Dolphinfish	Handline	None provided	Not applicable	Not applicable	Offshore San Pedro, Palmar de Ocoa, Salina, Barahona, Pedernales August through January	No information	No information	A/G		U.S. Trade Data	
Lobster	trap, pot	47 940 participants	Not applicable	Not applicable	Silver Bank, Navidad Bank, Montecristi, Dominican Republic EEZ July through February	None provided, Literature--humpback whales in the area	None provided	C/O		U.S. Trade Data	Caribbean trap/pot fishery is listed as Category III
Pompano	Aquaculture	1 farm	Not applicable	Not applicable	Las Salinas, Peravia province, Copellito Nagua	Not applicable	Not applicable	N/I		U.S. Trade Data	
Export Fisheries											
Snapper	Longline	None provided	Not applicable	Not applicable	Offshore marine areas year round	No information	No information	A/G, N/I		U.S. Trade Data	
Export Fisheries with No Information											
Crab	None provided	None provided	Not applicable	Not applicable	Mangroves May through November	No information	No information	N/I		U.S. Trade Data	
Fish, shellfish	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I		U.S. Trade Data	
Marine fish	Multigear	4,000 10,000 participants	Not applicable	Not applicable	None provided	None provided	None provided	N/I		U.S. Trade Data	
Sea Cucumber	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I		U.S. Trade Data	
Ecuador											
Exempt Fisheries											
Tuna, yellowfin, bigeye, skipjack	pole and line	4	Not applicable	Not applicable	Eastern Tropical Pacific	None provided	None provided	N/I, A/G		U.S. Trade Data	
tuna (yellowfin, bigeye, albacore, skipjack, dorado, wahoo, crevalle jack, black marlin)	purse seine	114	not applicable	not applicable	High seas, central and western Pacific Ocean, Western Central Pacific Fisheries Commission area	none provided	none provided	A/G	WCPFC	Ecuador-provided	
tuna (skipjack, yellowfin), shark, snapper, grouper	pole and line	6	not applicable	not applicable	continental EEZ	none provided	none provided	A/G		Ecuador-provided	
giant squid	jig	36	not applicable	not applicable	July to October; continental and island EEZ and SPRFMO Convention Area	none provided	none provided	A/G		Ecuador-provided	operates at night
molluscs, crustaceans (mussels, shells, crab), octopus	hand collection	not applicable	not applicable	not applicable	coastal waters	not applicable	not applicable			Ecuador-provided	
sea cucumber, rock lobster, octopus	diving: harpoon and hooks, hand collection	not applicable	not applicable	not applicable	continental EEZ	not applicable	not applicable			Ecuador-provided	
Export Fisheries											
tuna (yellowfin, bigeye, albacore, skipjack, dorado, wahoo, crevalle jack, black marlin)	purse seine	53 - 114	Not applicable	Not applicable	High seas, eastern tropical Pacific Ocean, Inter-American Tropical Tuna Commission Convention Area	Offshore spotted dolphin, Northeastern Western-southern Spinner dolphin, Eastern and Whitebelly, Common dolphin, northern, central, southern	None provided	N/I, C/O, A/G, P	IATTC, AIDCP	U.S. Trade Data	any vessels under 400 short tons must apply for a comparability finding, dolphin mortality limit, monitored by IATTC, 13 vessels interact with marine mammals in this fishery and have a DML
Tuna, yellowfin, bigeye, skipjack, swordfish, black marlin, dorado, wahoo, escolar, shark	longline	60 - 205	Not applicable	Not applicable	Exclusive Economic Zone (Continental and island) Eastern Tropical Pacific Ocean Inter-American Tropical Tuna Commission Convention Area	None provided	None provided	N/I, A/G	IATTC	U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, shark, snapper, grouper	longline	none provided	not applicable	not applicable	Santa Elena Province	marine mammal interactions noted for region, species not provided	none documented	P, A/G	Ecuador-provided		observer coverage for this fleet
crevalle jack	purse seine	20	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		
hake, pollock, whiting, smelt	trawl	40	not applicable	not applicable	continental EEZ	none documented	none documented	C/O, A/G	Ecuador-provided		management plan in place, observer coverage in this fishery
shrimp	trawl	38	not applicable	not applicable	continental EEZ, Gulf of Guayaquil	none documented	none documented	C/O, A/G	Ecuador-provided		control system and satellite monitoring
shrimp	purse seine	38	not applicable	not applicable	continental EEZ, Gulf of Guayaquil	none documented	none documented	C/O, A/G	Ecuador-provided		control system and satellite monitoring
small pelagics (alewife, mackerel, bigscale anchovy, trunkfish, crevalle, jack, Atlantic round herring, anchovy, smelt)	purse seine	256	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		industrial
small pelagics (alewife, mackerel, bigscale anchovy, trunkfish, crevalle, jack, Atlantic round herring, anchovy)	gillnet	256	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		artisanal
small pelagics (alewife, mackerel, bigscale anchovy, trunkfish, crevalle, jack, Atlantic round herring, anchovy)	trammel net	256	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		artisanal
European eel	longline	6	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		
red porgy, comber, sole	gillnet	19637	not applicable	not applicable	continental EEZ	humpback whale, bottlenose dolphin, dusky dolphins, pygmy sperm whale, sperm whale	none provided	C/O, A/G	Ecuador-provided, in: Felix et al. "Bycatch of humpback whales in artisanal fishing gear in Ecuador during 2005.", in: Haase and Felix, "a note on the incidental mortality of sperm whales in Ecuador"		reports of humpback whales and bottlenose dolphins killed in coastal fisheries
corvina, coronetfish, rock fish, catfish, ocean whitefish/tilefish	bottom longline	none provided	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		
corvina, coronetfish, rock fish, catfish, ocean whitefish/tilefish	trawl	none provided	not applicable	not applicable	continental EEZ	none provided	none provided	C/O, A/G	Ecuador-provided		
corvina, coronetfish, rock fish, catfish, ocean whitefish/tilefish	gillnet, bottom	none provided	not applicable	not applicable	continental EEZ	humpback whale, bottlenose dolphin, dusky dolphins, pygmy sperm whale, sperm whale	none provided	C/O, A/G	Ecuador-provided, Cetacean Bycatch TechMemo, in: Felix et al. "Bycatch of humpback whales in artisanal fishing gear in Ecuador during 2005.", in: Haase and Felix, "a note on the incidental mortality of sperm whales in Ecuador"		reports of humpback whales and bottlenose dolphins killed in coastal fisheries, likely from gillnets
shrimp, crustaceans	gillnet, set	none provided	not applicable	not applicable	continental EEZ, mouths of rivers	humpback whale, bottlenose dolphin, dusky dolphins, pygmy sperm whale, sperm whale	none provided	C/O, A/G	Ecuador-provided, Cetacean Bycatch TechMemo, in: Felix et al. "Bycatch of humpback whales in artisanal fishing gear in Ecuador during 2005.", in: Haase and Felix, "a note on the incidental mortality of sperm whales in Ecuador"		reports of humpback whales and bottlenose dolphins killed in coastal fisheries, likely from gillnets
Export Fisheries with No Information											
jellyfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
toothfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	CCAMLR	U.S. Trade Data	
Egypt											
Exempt Fisheries											
sea cucumbers	diving	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I, A/G		U.S. Trade Data	
Export Fisheries											
anchovy, herring, sardines	purse seine	Mediterranean coast - 238, Red Sea and adjacent gulfs - 83	Not applicable	Not applicable	Mediterranean coast, Red sea and adjacent gulfs	None provided	None provided	N/I, A/G		U.S. Trade Data	
Export Fisheries with No Information											
crustaceans	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I, A/G		U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
molluscs	None provided	None provided	Not applicable	Not applicable	None provided	None provided	None provided	N/I, A/G		U.S. Trade Data	

EI Salvador

Exempt Fisheries											
Tuna, yellowfin, bigeye, skipjack, snapper, grouper, swordfish, dolphinfish	pole and line	1	Not applicable	Not applicable	Eastern Tropical Pacific, Inter-American Tropical Tuna Commission Convention Area	None provided	None provided	A/G		U.S. Trade Data	
Conch, lobster, crab, crustaceans	dive, trap/pot	Not provided	Not provided	Not provided	None provided	None provided	None provided	A/G		U.S. Trade Data	

Export Fisheries

Tuna, yellowfin, bigeye, skipjack	purse seine	4	Not applicable	Not applicable	Eastern Atlantic Ocean, International Convention for the Conservation of Atlantic Tuna Convention Area	None provided	None provided	A/G		U.S. Trade Data	
Tuna, yellowfin, bigeye, skipjack, snapper, grouper, swordfish, dolphinfish	longline	8	Not applicable	Not applicable	Eastern Tropical Pacific, Inter-American Tropical Tuna Convention Area	None provided	None provided	A/G		U.S. Trade Data	

Export Fisheries with No Information

Seabass	Not provided	Not provided	Not provided	Not provided	None provided	None provided	None provided	N/I		U.S. Trade Data	
Sardine, mackerel	Not provided	Not provided	Not provided	Not provided	None provided	None provided	None provided	N/I		U.S. Trade Data	
Groundfish, cod	Not provided	Not provided	Not provided	Not provided	None provided	None provided	None provided	N/I		U.S. Trade Data	
Shrimp	trawl	Not provided	Not provided	Not provided	None provided	None provided	None provided	N/I		U.S. Trade Data	certified under shrimp turtle
Flatfish (flounder)	Not provided	Not provided	Not provided	Not provided	None provided	None provided	None provided	N/I		U.S. Trade Data	

Estonia

Exempt Fisheries											
Redfish, cod, sardine, herring and others	bottom trawl, otter	2	not applicable	not applicable	Northwest Atlantic FAO Area 21 Jan-Dec	None Documented	None Documented	A, A/G		EU Provided, U.S. Trade Data	Data collected by observers indicates no documented marine mammal bycatch
Argentine hake	bottom trawl, otter	1	not applicable	not applicable	Southwest Atlantic FAO Area 41 May through July	None Documented	None Documented	A, A/G		EU Provided, U.S. Trade Data	Data collected by observers indicates no documented marine mammal bycatch
Prawn	bottom trawl, otter	3	not applicable	not applicable	Northwest Atlantic FAO Area 21 January through December	None Documented	None Documented	A, A/G		EU Provided, U.S. Trade Data	Data collected by observers indicates no documented marine mammal bycatch
Prawn	bottom trawl, otter	3	not applicable	not applicable	Northeast Atlantic FAO Area 27 December - January	None Documented	None Documented	A, A/G		EU Provided, U.S. Trade Data	Data collected by observers indicates no documented marine mammal bycatch
cod and other species	bottom trawl, otter	3	not applicable	not applicable	Northeast Atlantic FAO Area 27 Mar-Oct	None Documented	None Documented	A, A/G		EU Provided, U.S. Trade Data	Data collected by observers indicates no documented marine mammal bycatch

Export Fisheries

European perch, herring, pike-perch	gillnet/trapnet	940	not applicable	not applicable	year-round, Northeast Atlantic FAO Area 27: ICES Area III d	gray and ringed seals	22	P, A/G		EU Provided, U.S. Trade Data	22 ringed and gray seals per year on average (2011-2015)
sprat, herring	trawl	36	not applicable	not applicable	year-round, Northeast Atlantic FAO Area 27: ICES Area III d	marine mammals present in area	None Documented	C/O, A/G		EU Provided, U.S. Trade Data	

Falkland Islands

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Toothfish	Longline	3	Not applicable	Not applicable	Atlantic Southwest, FAO Area, 41.3 Falkland Island Conservation Zone Year round	None documented	None documented	A, A/G	U.S. Trade Data		Longlining with umbrellas. The 'umbrellas' are intended to deter whales from accessing fish on the longline so are mainly intended to protect the fish. They have the added benefit of reducing marine mammal interactions with the long line. No intentional mortality and there is an Law which makes any such activity illegal: The Falkland Islands has the Marine Mammals Ordinance 1992 which prohibits the killing of marine mammals on land or in the fishery waters of the Falkland Islands.
Toothfish	Bottom longline	6	Not applicable	Not applicable	FAO Area 48.3 and 48.4 South Georgia and South Sandwich Islands Maritime Zone April through September	None documented	None documented	A, A/G	U.S. Trade Data		
Faroe Islands											
Exempt Fisheries											
scallops	dredge	1	P/F O.C.Joensen	wild caught, Faroese vessel	Faroe Islands EFZ	None documented	None documented	A/G	U.S. Trade Data		Gulf of Maine, U.S. Mid-Atlantic sea scallop dredge is a category III
Export Fisheries											
crab, snow	fish trap	1	Sp/f 7-9-13	wild caught, Faroese vessel	Svalbard zone	No Marine Mammal Interaction	None documented	A/G	U.S. Trade Data		Snow crab pots entangle larges whales off of Canada
flatfish, sole, plaice, halibut	trawl	31 trawlers below 110 GRT	List to be provided	wild caught, Faroese vessels	Faroe Islands EFZ	None documented	None documented	A/G	U.S. Trade Data		The way the Faroese fishery is managed, there is no by-catch of whale or seal (Marine Mammal Interaction) in the fishery in Faroese waters, because fishing net is prohibited in shallow waters down to 380 meters. Trawling is prohibited within 12 nautical miles from the baselines.
groundfish, cod, haddock, pollock	trawl,	31 trawlers below 110 GRT, 33 trawlers above 110 GRT, 4 freezing trawlers	List to be provided	wild caught, Faroese vessels	Faroe Islands EFZ, Iceland EEZ, Greenland EFZ, Norway EEZ, Russia EEZ (Barents Sea), Svalbard Area, NAFO Regulatory Area and NEAFC Regulatory Area	None documented	None documented	A/G	U.S. Trade Data		The way the Faroese fishery is managed, there is no by-catch of whale or seal (Marine Mammal Interaction) in the fishery in Faroese waters, because fishing net is prohibited in shallow waters down to 380 meters. Trawling is prohibited within 12 nautical miles from the baselines.
groundfish, cod, haddock, pollock	longline	18 long line vessels	List to be provided	wild caught, Faroese vessels	Faroe Islands EFZ, Iceland EEZ, Greenland EFZ, Norway EEZ, Russia EEZ (Barents Sea), Svalbard Area, NAFO Regulatory Area and NEAFC Regulatory Area	None provided	None provided	A/G	U.S. Trade Data		
herring	mid-water trawl	9 pelagic vessels	P/F Varðin Pelagic, P/F P.P.Faroe Pelagic, P/F Pelagos, P/F Northpelagic	wild caught, Faroese vessels	Faroe Islands EFZ and NEAFC Regulatory Area	None documented	None documented	A/G	U.S. Trade Data		The way the Faroese fishery is managed, there is no by-catch of whale or seal (Marine Mammal Interaction) in the fishery in Faroese waters, because fishing net is prohibited in shallow waters down to 380 meters. Trawling is prohibited within 12 nautical miles from the baselines.
lobster, Norway	fish trap	32 coastal fishing boats	Sp/f Nordurras	wild caught, Faroese vessels	Faroe Islands EFZ	No Marine Mammal Interaction	None documented	A/G	U.S. Trade Data		
mackerel	mid-water trawl	9 pelagic vessels, 5 trawlers below 110 GRT, 33 trawlers above 110 GRT = Total 47 vessels	P/F Varðin Pelagic, P/F P.P.Faroe Pelagic, P/F Pelagos, P/F Northpelagic	wild caught, Faroese vessels	Faroe Islands EFZ, EU area, Norway EEZ and NEAFC Regulatory Area	pilot whales	0 - 2	A/G	U.S. Trade Data		There have been very few reports of by-catch of pilot whale in the mackerel mid-water trawl fishery, which has taken place in Faroese waters for the past 5 years, from none (0) to 2 annually. Trawling is prohibited within 12 nautical miles from the baselines

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
salmon, Atlantic	aquaculture	There are three aquaculture companies producing salmon in the Faroe Islands in 25 farming areas within the fjords and sounds of the Faroe Islands.	P/F Bakkafrost, P/F Luna (Hiddenfjord) and P/F Marine Harvest Faroes	Atlantic salmon, farmed	There are 25 areas for salmon farming in the fjords and sounds of the Faroe Islands	Registered removal of grey seals, when they attempt to tear the nets	None provided	P			There is no bycatch of marine mammals in aquaculture in the Faroe Islands. However, it is reported that salmon farmers in some cases remove grey seals from farming sites when the seals threaten and tear the nets. A reporting system, implemented in the Faroes to obtain estimates of removals of grey seals at salmon farms, indicate removals of about 100 seals per year in relation to aquaculture. See also GSI (Global Salmon Initiative) sustainability report with information on the total number of mammal mortalities per farming site.
smelts - Greater Silver smelt	trawl	6	Sp/f Tavan	wild caught, Faroese vessels	Faroe Islands EFZ	None documented	None documented	A/G		U.S. Trade Data	The way the Faroese fishery is managed, there is no by-catch of whale or seal (Marine Mammal Interaction) in the fishery in Faroese waters, because fishing net is prohibited in shallow waters down to 380 meters. Trawling is prohibited within 12 nautical miles from the baselines.
Federated States of Micronesia											
Exempt Fisheries											
coral, cuttlebone, shells	diving, hand collection	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade Data	
tuna (bigeye, yellowfin, bigeye)	purse seine	12	None provided	None provided	Kiribati, Western Central Pacific Fishery Commission Convention Area	None documented	None documented	A/G	WCPFC	WCPFC; FAO Tech paper 588, WCPO risk asmt	
tuna (bigeye, yellowfin, bigeye), dolphinfish, swordfish	longline	19	None provided	None provided	Kiribati, Western Central Pacific Fishery Commission Convention Area	None provided	None provided	A/G	WCPFC	WCPFC; FAO Tech paper 588, WCPO risk asmt	
tuna (bigeye, yellowfin,)	longline	None provided	None provided	None provided	Northern Pacific	None provided	None provided	A/G		U.S. Trade Data	
Export Fisheries with No Information											
clam	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade Data	
Fiji											
Exempt Fisheries											
coral, trochus shells	hand collection	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I, A/G		U.S. Trade Data	
molluscs	hand collection	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I, A/G		U.S. Trade Data	
mussels	hand collection	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I, A/G		U.S. Trade Data	
sea cucumbers	diving, hand collection	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I, A/G		U.S. Trade Data	
snapper, grouper	handline	5	None provided	None provided	Fijian EEZ	None provided	None provided	N/I, A/G		U.S. Trade Data	
Export Fisheries											
tuna, albacore, bigeye, yellowfin, swordfish, dolphinfish	longline	102 - 121	None provided	None provided	Coral Sea; Fijian waters	pilot whales, false killer whales, melon headed whale	None provided	P, A/G	Party to CPFLDSP; gear modifications to deter predation	WCPFC; Hamer et al 2015	The fleet structure for 2015 consists of the 102 Fiji national vessels; of which 9 vessels are chartered foreign flagged vessels. The remaining 93 vessels are Fiji flagged and fished in Fiji's EEZ, other EEZs and high seas within the WCPO.
Export Fisheries with No Information											
bass	None provided	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I		U.S. Trade Data	
flatfish, plaice	None provided	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I		U.S. Trade Data	
groundfish, cod	None provided	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I		U.S. Trade Data	
mackerel	None provided	None provided	None provided	None provided	Fijian EEZ	None provided	None provided	N/I		U.S. Trade Data	

Finland

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Baltic herring (<i>Clupea harengus membras</i>)	trawl	About 70	Not applicable	Not applicable	Main part of catch in northern Baltic Sea (sub-divisions 28, 29, 30, 31 and 32)	grey seals present in area	none documented	C/O, A/G	Reg. 2187/2005	U.S. Trade Data: and email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	Grey seals may at instances cause damage to cod ends of pelagic trawls when trying to take caught herring. Seals are however not caught as bycatch in the trawls. Finland had observers onboard pelagic trawlers in our waters 2006 and 2007. The observers did not observe any bycatch of marine mammals or any cetaceans in the waters during this scheme. The marine aquaculture production facilities (cages) are protected against grey seal and ringed seal interactions with strong outer protective nets and hence there are no reports on harmed seals. Same comment as above on harbor porpoise.
rainbow trout (<i>Oncorhynchus mykiss</i>) and its eggs	marine aquaculture	not applicable	Aquaculture company	marine fish farms	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	none documented	C/O		Source: email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	The marine aquaculture production facilities (cages) are protected against grey seal and ringed seal interactions with strong outer protective nets and hence there are no reports on harmed seals. Same comment as above on harbor porpoise.
whitefish (<i>Coregonus</i> sp.)	marine aquaculture	not applicable	Aquaculture company	marine fish farms	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	none documented	C/O		Source: email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	The marine aquaculture production facilities (cages) are protected against grey seal and ringed seal interactions with strong outer protective nets and hence there are no reports on harmed seals. Same comment as above on harbor porpoise.
Export Fisheries											
Atlantic cod (<i>Gadus morhua</i>)	trawl	approx. 5	Not applicable	Not applicable	Swedish, Danish and Polish EEZ of Baltic Main Basin (sub-divisions 24-26)	none documented	none documented	C/O, A/G	Technical measures of the Common Fisheries Policy (CFP) of the European Union (Council Regulation 2187/2005). According to its Article 9 the use of driftnets are totally prohibited in the Baltic Sea as from 1.1.2008.	U.S. Trade Data	No data to indicate interactions with grey seals or harbor porpoise that have lead to injury or mortality. Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9. http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2005:349:0001:0023:EN:PDF
Atlantic cod	bottom-gillnet, sets	approx. 10	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29 and 32)	grey seals	none documented	A/G	Reg. 2187/2005	U.S. Trade Data	No data to indicate interactions with grey seals or harbor porpoise that have lead to injury or mortality. Harbor porpoise are only rarely sighted in the Finnish EEZ (2-3 times a year) while their main distribution area is in the southern Baltic Sea (sub-divisions 22-26). There are no reports of bycatches of harbor porpoise in the Finnish fisheries. See report from 2016 http://www.sambah.org/SAMBAH-Final-Report-FINAL-for-website-April-2017.pdf . Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9.
Baltic herring (<i>Clupea harengus membras</i>) and its eggs	trap nets and gillnet	Hundreds of small vessels	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	none documented	C/O, A/G	Reg. 2187/2005	U.S. Trade Data: and email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	Grey seals and ringed seals interact with trapnets and gillnets by taking fish from them and damaging the nets. There are no reports of bycatches of seals in these fishing gear which are made of netting that seals can break. Same comment as above on harbor porpoise. Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9.
salmon (<i>Salmo salar</i>)	trap nets	approx. 250 small vessels	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	greys seals and ringed seals	occasional	C/O, P, A/G	Reg. 2187/2005	U.S. Trade Data	Grey seals and ringed seals interact with trapnets by taking fish from them and damaging the nets. There are occasional bycatches of seals in these fishing gear although they are made to withstand seal interactions to keep them out and the netting is often made of Dynema. Same comment as above on harbor porpoise. Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9.
whitefish (<i>Coregonus</i> sp.)	trap nets and gillnet	Hundreds of small vessels	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	occasional in trapnets	C/O, P, A/G	Reg. 2187/2005	Source: email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	Grey seals and ringed seals interact with trapnets by taking fish from them and damaging the nets. There are occasional bycatches of seals in these fishing gear although they are made to withstand seal interactions to keep them out and the netting is often made of Dynema. The gillnets are made of weak thintreaded nets that are harmless for seals. Same comment as above on harbor porpoise. Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9.
perch (<i>Perca fluviatilis</i>)	trap nets and gillnet	Hundreds of small vessels	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	none documented	C/O, A/G	Reg. 2187/2005	Source: email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	Grey seals and ringed seals interact with trapnets and gillnets by taking fish from them and damaging the nets. There are no reports of bycatches of seals in these fishing gear which are made of netting that seals can break. Same comment as above on harbor porpoise. Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9.
pikeperch (<i>Stizostedion lucioperca</i>)	trap nets and gillnet	Hundreds of small vessels	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	none documented	C/O, A/G	Reg. 2187/2005	Source: email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	Grey seals and ringed seals interact with trapnets and gillnets by taking fish from them and damaging the nets. There are no reports of bycatches of seals in these fishing gear which are made of netting that seals can break. Same comment as above on harbor porpoise.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
pike (Esox lucius)	trap nets and gillnet	Hundreds of small vessels	Not applicable	Not applicable	Finnish terr. waters and EEZ of northern Baltic Sea (sub-divisions 29, 30, 31 and 32)	grey and ringed seals	none documented	C/O, A/G	Reg. 2187/2005	Source: email from Orian Bondestam, Finland Ministry of Agriculture and Forestry	Grey seals and ringed seals interact with trapnets and gillnets by taking fish from them and damaging the nets. There are no reports of bycatches of seals in these fishing gear which are made of netting that seals can break. Same comment as above on harbor porpoise. Driftnets are totally prohibited in the Baltic Sea as from 1.1.2008. Se Eu Regulation 2187/2005 Article 9.
Export Fisheries with No Information											
seaweed	none provided	none provided	none provided	none provided	northern Baltic Sea	none provided	none provided	N/I		U.S. Trade Data	
France											
Exempt Fisheries											
Atlantic cod	pole and line (métiers de l'hameçon)	168	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Crab (brown crab)	pole and line (métiers de l'hameçon)	43	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
icefish	trawl, midwater pole and line (métiers de l'hameçon)	1	Not applicable	Not applicable	Subarea 58.5.1 (Kerguelen Is.)	none documented	none documented	A/G	CCAMLR	https://www.ccamlr.org/en/compliance/list-authorized-vessels	
Atlantic mackerel	pole and line (métiers de l'hameçon)	205	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Rockfish (redfish)	pole and line (métiers de l'hameçon)	14	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Great scallop	pole and line (métiers de l'hameçon)	17	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
toothfish	trawl, bottom	1	Not applicable	Not applicable	Subarea 58.5.1 (Kerguelen Is.)	none documented	none documented	A/G	CCAMLR	https://www.ccamlr.org/en/compliance/list-authorized-vessels	
toothfish	longline	1	Not applicable	Not applicable	Subarea 58.4.3a	none documented	none documented	A/G	CCAMLR	https://www.ccamlr.org/en/compliance/list-authorized-vessels	
toothfish	longline	8	Not applicable	Not applicable	Subarea 58.6 (Crozet Is.)	none documented	none documented	A/G	CCAMLR	https://www.ccamlr.org/en/compliance/list-authorized-vessels	
Export Fisheries											
toothfish	longline	8	Not applicable	Not applicable	Subarea 58.5.1 (Kerguelen Is.)	sperm whale	2007: 1 sperm whale killed	P, A/G	CCAMLR	https://www.ccamlr.org/en/compliance/list-authorized-vessels	
Atlantic cod	trawl, demersal	606	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Phoca vitulina	1 observations - mortality : 1 estimated	P, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Atlantic cod	trawl, pelagic	49	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Atlantic cod	nets	456	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Atlantic cod	longline (métiers de l'hameçon)	168	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Atlantic cod	purse seine	1	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	
Crab (brown crab)	trawl, demersal	330	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Crab (brown crab)	trawl, pelagic	12	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Crab (brown crab)	nets	329	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Crab (brown crab)	longline (métiers de l'hameçon)	43	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Atlantic mackerel	trawl, demersal	623	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	harbor porpoise	1 harbor porpoise	P, A/G		IWC 2010 (1 harbor porpoise)	Observed in areas under Regulation 812/2004
Atlantic mackerel	trawl, demersal	57	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	harbor porpoise	1 harbor porpoise	P, A/G		IWC 2010 (1 harbor porpoise)	Observed in areas under Regulation 812/2004
Atlantic mackerel	trawl, pelagic	170	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	harbor porpoise	1 harbor porpoise	P, A/G		IWC 2010 (1 harbor porpoise)	Observed in areas under Regulation 812/2004
Atlantic mackerel	trawl, pelagic	7	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	harbor porpoise	1 harbor porpoise	P, A/G		IWC 2010 (1 harbor porpoise)	Observed in areas under Regulation 812/2004
Atlantic mackerel	nets	368	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Atlantic mackerel	nets	75	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Atlantic mackerel	longline (métiers de l'hameçon)	205	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Atlantic mackerel	purse seine	32	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	
European pilchard	trawl, demersal	168	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
European pilchard	trawl, demersal	44	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
European pilchard	trawl, pelagic	71	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
European pilchard	trawl, pelagic	8	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
European pilchard	nets	35	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
European pilchard	purse seine	32	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	
European pilchard	purse seine	31	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	
Rockfish (redfish)	trawl, demersal	52	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Rockfish (redfish)	trawl, pelagic	6	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Rockfish (redfish)	longline (métiers de l'hameçon)	14	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Great scallop	trawl, demersal	203	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Great scallop	trawl, pelagic	12	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Great scallop	nets	42	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Great scallop	longline (métiers de l'hameçon)	17	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O		U.S. Trade Data	Question of translation of gear type
Tuna	trawl, demersal	20	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna	trawl, pelagic	46	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	P, C/O, A/G		Tregenza, NJC and Collet, A. 1998. Common dolphin Delphinus delphis bycatch in pelagic trawl and other fisheries in the North East Atlantic. Report of the International Whaling Commission 48: 453-459	Observed in areas under Regulation 812/2004
Tuna	nets	22	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Tuna	nets	10	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in areas under Regulation 812/2004
Tuna	longline	20	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	C/O, A/G		U.S. Trade Data	Question of translation of gear type
Tuna	longline	1	Not applicable	Not applicable	Eastern Central Atlantic (FAO 34)	Marine mammal interactions indicated species not provided	no information	C/O, A/G		U.S. Trade Data	Observed in ICCAT; question of translation of gear type, Licensed to fish off Cape Verde, other locations?
Tuna	longline	7	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	None provided	C/O, A/G		U.S. Trade Data	Question of translation of gear type
Tuna	longline	112	Not applicable	Not applicable	Western Indian Ocean (FAO 51)	Delphinidae Grampus griseus Globicephala spp Megaptera novaeangliae Balaenoptera acutorostrata	12 observations - mortality : 1	P, A/G		U.S. Trade Data	Observed in IOTC
Swordfish	longline (métiers de l'hameçon)	None provided	Not applicable	Not applicable	IOTC Convention Area	None provided	None provided	C/O, A/G		France provided data	Observed in IOTC 2015
Tuna	purse seine	9	Not applicable	Not applicable	Eastern Central Atlantic (FAO 34)	Marine mammal interactions indicated species not provided	no information	P, A/G		U.S. Trade Data	Observed in ICCAT, Licensed to fish off Cape Verde, other locations?
Tuna	purse seine	1	Not applicable	Not applicable	Southwest Atlantic (FAO 41)	Marine mammal interactions indicated species not provided	no information	P, A/G		U.S. Trade Data	Observed in ICCAT
Tuna	purse seine	3	Not applicable	Not applicable	Southeast Atlantic (FAO 47)	Marine mammal interactions indicated species not provided (Common Dolphin)	no information	C/O, A/G		http://www.iccat.int/com2015/DocENG/PLE_105A_EN	Observed in ICCAT, Source Doc MM bycatch 2011-2016
Tuna	purse seine	11	Not applicable	Not applicable	Western Indian Ocean (FAO 51)	Mysticete (baleen whale)	3 observations - mortality : 0	P, A/G			Observed in IOTC
monkfish	gillnet	None provided	Not applicable	Not applicable	North Sea, Irish Sea, Bay of Biscay (ICES areas IV, VII and VIII)	harbor porpoise	None provided	C/O, A/G		http://www.ascobans.org/sites/default/files/document/A_C22_inf_15.1.d_NationalReport_France.pdf	ICES
sole, monkfish, sea-bass	gillnet	None provided	Not applicable	Not applicable	North Sea, Irish Sea Channel, Northeast Atlantic (ICES areas IVe and VII, FAO area 27)	Harbor Porpoise Pilot whale, Long-finned	2, 1	P, A/G		IWC 2010	IWC 2010, Tregenza, NJC and Collet, A. 1998. Common dolphin Delphinus delphis bycatch in pelagic trawl and other fisheries in the North East Atlantic. Report of the International Whaling Commission 48: 453-459
finfish, John dory, seabass	trawl	None provided	Not applicable	Not applicable	None provided	common dolphin	6, 25 (1-83)	P, A/G			
Export Fisheries with No Information											
Crab (brown crab)	other	333	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	
Atlantic mackerel	other	307	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	
Atlantic mackerel	other	25	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	
European pilchard	other	45	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
European pilchard	other	5	Not applicable	Not applicable	Mediterranean and Black Sea (FAO 37)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	
Great scallop	other	586	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	
Tuna	other	12	Not applicable	Not applicable	Northeast Atlantic (FAO 27)	Marine mammal interactions indicated species not provided	None provided	N/I, C/O		EU provided data	The French driftnet fishery for albacore in the northeast Atlantic in the early 1990s caught between 420– 460 dolphins, apparently both whitesided and striped dolphins (1992, 410 (325-495); 1993, 419 (266-572)).
Tuna	other	18	Not applicable	Not applicable	Western Indian Ocean (FAO 51)	Marine mammal interactions indicated species not provided	none provided	N/I, C/O		EU provided data	The French driftnet fishery for albacore in the northeast Atlantic in the early 1990s caught between 420– 460 dolphins, apparently both whitesided and striped dolphins (1992, 410 (325-495); 1993, 419 (266-572)). Review literature on cetacean bycatch in longlines includes discussion of dolphins Atlantic (French territorial waters)
unknown	gillnet, trawl	no information	Not applicable	Not applicable	ICES 27.4b, 27.7.h	Gray seal, harbor seal	4	P, N/I		http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2016/2016/Protected_species_bycatch.pdf	
unknown	trawl	no information	Not applicable	Not applicable	ICES areas	harbor porpoise	600	P, A/G		ASCOBANS 2009, ICES 2009	
unknown	gillnet	no information	Not applicable	Not applicable	no information	common dolphin, striped dolphin, pilot whales	2000, 50-100	P, A/G		gray literature, data from ICCAT website	
unknown	gillnet	no information	Not applicable	Not applicable	ICES area VIII	Striped Dolphin, common dolphin short-beaked, harbor porpoise	870, 1303, 300	P, A/G		IWC 2009-2011	
unknown	trammel nets	no information	Not applicable	Not applicable	ICES area VIII	harbor porpoise	870, 1303, 300	P, A/G		IWC 2009-2011	
unknown	mid-water trawl	no information	Not applicable	Not applicable	Mediterranean NW Mediterranean, FAO area 37	Striped Dolphin	70	P, A/G			
unknown	no information	no information	Not applicable	Not applicable	area 37	Striped Dolphin	6	P, C/O, N/I		IWC 2010	
seaweeds	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
anchovy, sardine	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
bonito	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
caviar	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
halibut	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
lobster	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
herring	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
sea urchin roe	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
snails	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
turbot	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		US Trade Data	
anchovy, hake	trawl	no information	Not applicable	Not applicable	no information	Striped Dolphin	4	C/O, N/I		IWC 2010	
Acoupa Rouge (<i>cynoscion acoupa</i>)	various gear	None provided	Not applicable	none provided	EEZ Guyana	none provided	none provided	N/I		EU data provided	

French Polynesia

Exempt Fisheries

Coral, shells, cuttlebone,	Aquaculture	Not applicable	Not applicable	Not applicable	Lagoons and shallow inshore waters	None	None	A/G		U.S. Trade Data	No lagoon interaction with marine mammals
Jack and Horse Mackerel and Marine Fish	Handline/spear gun/fish traps	Not applicable	Not applicable	Not applicable	Lagoons and shallow inshore waters	None	None	A/G		U.S. Trade Data	No lagoon interaction with marine mammals
Skipjack Tuna, multispecies (pelagic, bottom fish, reef fishes)	Pole-and-line/handline/troll	443	Not applicable	Not applicable	Coast near-shore French Polynesian EEZ	None	None	A/G	WCPFC	National Report to WCPFC	

Export Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Albacore tuna (primary target), yellowfin tuna, skipjack tuna, bigeye tuna, bluefin tuna (not targeted) pacific blue marlin, swordfish, striped marlin and sailfish.	Longline	75 recorded on the WCPFC 60 active	Not applicable	Not applicable	FAO Statistical Area 77 Eastern Central Pacific	Marine mammals likely pilot whales	None reported in national report. Depredation no reported entanglement	C/O A/G	WCPFC	National Report to WCPFC	EEZ-wide sanctuary for the protection and conservation of marine mammals (declared in 2002) Would benefit from observer data on the marine mammals engaging in depredation : in 2016, out of 343 observed sets, 10 sets were damaged by marine mammals, which means 2.9 % damaged observed sets
Albacore tuna (primary target), yellowfin tuna, skipjack tuna, bigeye tuna, bluefin tuna (not targeted) pacific blue marlin, swordfish, striped marlin and sailfish.	Longline	14	Not applicable	Not applicable	Eastern Tropical Pacific	Marine mammals likely pilot whales	None reported in national report. Depredation no reported entanglement	C/O A/G	IATTC	https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf	EEZ-wide sanctuary for the protection and conservation of marine mammals (declared in 2002) Would benefit from observer data on the marine mammals engaging in depredation : in 2016, out of 343 observed sets, 10 sets were damaged by marine mammals, which means 2.9 % damaged observed sets

Gambia

Export Fisheries

Groundfish (ocean perch)	purse seine	None provided	None provided	None provided	Atlantic Eastern Central, FAO Area 34, Mauritanian waters, Guinea Bissau waters, Guinean waters	None provided	None provided	N/I, A/G		http://firms.fao.org/firms/resource/10100/en , http://firms.fao.org/firms/fishery/574/en	
Groundfish (ocean perch)	trawl	2 Spain-Stern Trawler for Bottom trawl black hake fishery	None provided	None provided	Atlantic Eastern Central, FAO Area 34, Mauritanian waters, Guinea Bissau waters, Guinean waters	None provided	None provided	N/I, A/G		http://firms.fao.org/firms/resource/10100/en , http://firms.fao.org/firms/fishery/574/en	
marine fish (Octopus, Cuttlefish, Squid, Dentex, Seabreams, shrimp, sardine)	purse seine	none provided, .5 Spain-Stern Trawler Freezer for Bottom trawl black hake fishery	None provided	None provided	Atlantic Eastern Central, FAO Area 34, Mauritanian waters, Guinea Bissau waters, Guinean waters	None provided	None provided	N/I, A/G		http://firms.fao.org/firms/resource/10100/en , http://firms.fao.org/firms/fishery/574/en	
marine fish (Octopus, Cuttlefish, Squid, Dentex, Seabreams, shrimp, hake)	trawl	5 Spain-Stern Trawler Freezer for Bottom trawl black hake fishery	None provided	None provided	Atlantic Eastern Central, FAO Area 34, Mauritanian waters, Guinea Bissau waters, Guinean waters	None provided	None provided	N/I, A/G		http://firms.fao.org/firms/resource/10100/en , http://firms.fao.org/firms/fishery/574/en	

Export Fisheries with No Information

Wolfish	None provided	N/I		U.S. trade data							
Salmon	None provided	N/I		U.S. trade data							
tuna (yellowfin)	none provided	N/I		http://firms.fao.org/firms/resource/16001/en							

Germany

Export Fisheries

Cod, saithe, haddock	trawl, otter	4	not applicable	not applicable	January - March, June - August; Barents Sea and January - March, June - August; Norwegian Sea, Spitzbergen, and Bear Island (ICES 27.1 and 27.2)	ringed seal	< 1 observations	P, A/G		EU provided	4 vessels fishing across both areas (ICES 1, 2) with <1 marine mammal mortality
Herring	trawl, pelagic	1	not applicable	not applicable	August - November; Norwegian Sea, Spitzbergen, and Bear Island (ICES 27.2)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU provided	
Brown shrimp	trawl, beam	68	not applicable	not applicable	March - October; North Sea, German coast (ICES 27.4)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G		EU provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Mackerel, herring	trawl, pelagic	2	not applicable	not applicable	Mackerel: January; Herring: June - August, December North Sea (ICES 27.4), Eastern English Channel (ICES 27.7.d)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		2 vessels fishing across both areas (ICES 27.4, 27.7.d)
Cod, saithe	trawl, otter	6	not applicable	not applicable	all year; North Sea (ICES 27.4), Skagerrak and Kattegat (ICES 27.3.a)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		6 vessels fishing across both areas (ICES 27.4, 27.3.a)
Plaice, sole	trawl, beam	10	not applicable	not applicable	all year; North Sea (ICES 27.4)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		
Plaice	trawl, otter	5	not applicable	not applicable	all year; North Sea (ICES 27.4)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		
Greenland halibut	trawl, otter	2	not applicable	not applicable	July - December NE coast of Newfoundland and Labrador (NAFO SA2) SW coast of Greenland (NAFO SA1) / Northwest Atlantic (FAO 21)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		2 vessels fishing across NAFO SA 1&2
Mackerel, herring, blue whiting, horse mackerel	trawl, pelagic	2	not applicable	not applicable	all year; Iceland and Faroes Grounds (ICES 27.5), Rockall, Northwest Coast of Scotland and North Ireland (ICES 27.6), Irish Sea, West of Ireland, Porcupine Bank, Eastern and Western English Channel (ICES 27.7), Bay of Biscay (ICES 27.8), East Greenland (ICES 27.14)	grey seal, short-beaked common dolphin, long-finned pilot whale, striped dolphin	< 3 observations	P, A/G	EU provided		2 vessels fishing across ICES areas (5, 6, 7, 8, 14), with 3 marine mammal observations
Greenland halibut	trawl, otter	2	not applicable	not applicable	March - December; Iceland Grounds (ICES 27.5.a), North of Azores (ICES 27.12), East Greenland (ICES 27.14)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		2 vessels fishing across ICES areas (5a, 12, 14)
Redfish	trawl, otter	1	not applicable	not applicable	Iceland Grounds (ICES 27.5.a), North of Azores (ICES 27.12), East Greenland (ICES 27.14)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		1 vessel fishing across ICES areas (5a, 12, 14)
Redfish	trawl, pelagic	1	not applicable	not applicable	Iceland Grounds (ICES 27.5.a), North of Azores (ICES 27.12), East Greenland (ICES 27.14)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		1 vessel fishing across ICES areas (5a, 12, 14)
Chub mackerel, pilchard, horse mackerel	trawl, pelagic	1	not applicable	not applicable	Eastern Central Atlantic (FAO 34), CECAF areas	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	Fishery Committee for the Eastern Central Atlantic (CECAF)	EU provided	
Chilean jack mackerel	trawl, pelagic	1	not applicable	not applicable	Southeast Pacific (FAO 87)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		
Herring, sprat	trawl, pelagic	56	not applicable	not applicable	all year; Belt Sea (ICES 27.3.c), Baltic Sea (ICES 27.3.d)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		56 vessels fishing across ICES areas (3c, 3d)

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Herring	set nets	430	not applicable	not applicable	Jan-June; Belt Sea (ICES 27.3.c), Baltic Sea (ICES 27.3.d)	marine mammal interactions indicated, species not provided, harbor porpoise interaction likely	none documented	C/O, A/G	EU provided		430 vessels fishing across ICES areas (3c, 3d)
Cod, Flatfishes nei	set nets	560	not applicable	not applicable	all year; Belt Sea (ICES 27.3.c), Baltic Sea (ICES 27.3.d)	harbor porpoise	10	P, A/G	EU provided, Young and Iudicello 2007		560 vessels fishing across ICES areas (3c, 3d); with 10 marine mammal bycatch. Likely thousands of harbor porpoise bycatch
Cod, Flatfishes nei	trawl, bottom	231	not applicable	not applicable	all year; Belt Sea (ICES 27.3.c), Baltic Sea (ICES 27.3.d)	marine mammal interactions indicated, species not provided	none documented	C/O, A/G	EU provided		231 vessels fishing across ICES areas (3c, 3d)
caviar (lumpfish roe)	gillnet	none provided	none provided	none provided	none provided	none provided	none provided	N/I		http://www.ascobans.org/sites/default/files/document/A/C19_4-17_BycatchPreventionBaltic_1.pdf	
Export Fisheries with No Information											
none provided	trawl	none provided	not applicable	not applicable	ICES 27.7b	gray seal	13	P, A/G		http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2016/2016/Protected_species_bycatch.pdf	A bycatch of 13 grey seals was observed in 42 hauls (out of a total of 131 hauls) by pelagic trawlers larger than 15 m in Division 27.7.b. (2016)
none provided	"fish pods"	none provided	not applicable	not applicable	Baltic Sea	Harbor porpoise	4	P, A/G		IWC 2009-2011	
salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-16 import data	
tuna	trawler	none provided	none provided	none provided	Eastern Tropical Pacific	none provided	none provided	N/I		2015-16 import data	
seaweed	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-16 import data	
Ghana											
Exempt Fisheries											
tuna	baitboat	none provided	none provided	none provided	none provided	none provided	none provided	A/G	Van Waerebeek et al. 2009		ICCAT, Source Doc RFMO
tuna - yellowfin, skipjack, bigeye	hook & line	none provided	not applicable	none provided	Ghana EEZ	none provided	none provided	A/G	Ghana submission		hook & line is exempt
coral	hand collection	none provided	none provided	none provided	Ghana EEZ	none provided	none provided			2015-16 import data	
Export Fisheries											
grouper, grunts, snapper	trawl	none provided	not applicable	none provided	Ghana EEZ	rough-toothed dolphin, long-beaked form of common dolphin	none provided	P, A/G		Ghana submission; de Boer et al 2016 - http://journal.frontiersin.org/article/10.3389/fmars.2016.00178/full	
herring, sardine, anchovies	Rotating net with slide, beach seine, purse seine with rotating net with slide	300 artisanal fishing boats (8 to 18 m long, outboard engines from 20 to 45 HP), 14 rotating net with slide purse seiners	none provided	none provided	Ghana EEZ, Gulf of Guinea	none provided	none provided	A/G		2015-16 import data; http://www.fao.org/fishery/facp/GHA/en#CountrySector-AddInfo , http://firms.fao.org/firms/fishery/650/fr , http://firms.fao.org/firms/fishery/647/fr	
mackerel	Rotating net with slide, beach seine, purse seine with rotating net with slide	300 artisanal fishing boats (8 to 18 m long, outboard engines from 20 to 45 HP), 14 rotating net with slide purse seiners	none provided	none provided	Ghana EEZ	none provided	none provided	A/G		2015-16 import data, http://www.fao.org/fishery/facp/GHA/en#CountrySector-AddInfo , http://firms.fao.org/firms/fishery/650/fr	
sea bream (Sparids), small pelagics	gillnet	none provided	not applicable	none provided	nearshore, Ghana EEZ	Atlantic humpback dolphins, Bryde's whales	none provided	P, A/G		Cetacean Bycatch Tech Memo: de Boer et al 2016 - http://journal.frontiersin.org/article/10.3389/fmars.2016.00178/full , Ghana submission	
shrimp (Southern Pink, Caramote prawn, Deep-water rose shrimp)	trawl, bottom	20 Rear fishing trawlers - Shrimp is a bycatch, 4 Rear fishing trawlers targeting shrimp	none provided	none provided	Ghana EEZ	none provided	none provided	A/G		2015-16 import data, http://firms.fao.org/firms/fishery/575/en , http://firms.fao.org/firms/fishery/653/fr , http://firms.fao.org/firms/fishery/656/fr	
snail	none provided	none provided	none provided	none provided	Ghana EEZ	none provided	none provided	A/G		2015-16 import data	
tuna	purse seine	37, 17 of which are large scale	none provided	none provided	Western and South Atlantic	bottlenose dolphin	none provided	P, A/G	Van Waerebeek et al. 2009, MSRA, ICCAT, Source Doc RFMO		

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, sharks, swordfish	longline	none provided	not applicable	none provided	Ghana EEZ	sperm whale, short-finned pilot whale,	none provided	C/O		de Boer et al (2016) - http://journal.frontiersin.org/article/10.3389/fmars.2016.00178/full	
tuna	purse seine	none provided	not applicable	none provided	not provided	pan-tropical spotted dolphin, Fraser's dolphin	none provided	C/O		de Boer et al (2016) - http://journal.frontiersin.org/article/10.3389/fmars.2016.00178/full	
tuna	drift gillnet	none provided	not applicable	none provided	not provided	dwarf sperm whale, pygmy killer whale, Cuvier's beaked whale, short-finned pilot whale, false killer whale, melon-headed whale, Risso's dolphin, bottlenose dolphin, pantropical spotted dolphin, Atlantic spotted dolphin, spinner dolphin, Clymene dolphin, Fraser's dolphin, common dolphin, long-beaked common dolphin, rough-toothed dolphin	multiple	P, C/O		MSRA: in "A review of the human activities impacting cetaceans in the eastern tropical Atlantic" Supplemental Table 3	
Export Fisheries with No Information											
crustaceans	none provided	none provided	none provided	none provided	Ghana EEZ	none provided	none provided	N/I		2015-16 import data	
cuttlefish	none provided	none provided	not applicable	none provided	Ghana EEZ	none provided	none provided	N/I		Ghana submission	
Greece											
Exempt Fisheries											
bluefin tuna	handlines and pole and lines (mechanized)	28	Not applicable	Not applicable	Feb-TAC; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
albacore, mahi mahi	handlines and pole and lines (mechanized)	456	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Export Fisheries											
anchovy	purse seine	256	Not applicable	Not applicable	March-December; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
sardine	purse seine	256	Not applicable	Not applicable	March-December; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Mackerel (Jack and Horse)	purse seine	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Mackerel (Jack and Horse)	trawl, bottom	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Mackerel (Jack and Horse)	gillnet, set	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	rarely	C/O, A/G		EU provided, U.S. Trade Data	rare reports of damaged static nets, sperm whale and striped dolphin bycatch, Young and Iudicello

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Mackerel (Jack and Horse)	longline, bottom	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
common octopus	pots and traps	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
common octopus	trawl, bottom	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
common octopus	gillnet, set	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	rarely	C/O, A/G		rare reports of damaged static nets, sperm whale and striped dolphin bycatch, Young and Iudicello; review by CMS of all gillnet fisheries provides some information based on modeling; review of pinger studies, CMS 2011; Dawson et al 2013	rare reports of damaged static nets, sperm whale and striped dolphin bycatch, Young and Iudicello
common octopus	purse seine	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
common squid (Loligo)	trawl, bottom	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
common squid (Loligo)	gillnet, set	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	rarely	C/O, A/G		EU provided, U.S. Trade Data	rare reports of damaged static nets, sperm whale and striped dolphin bycatch, Young and Iudicello
common squid (Loligo)	purse seine	entire fishing fleet	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
bluefin tuna	longline, drifting	28	Not applicable	Not applicable	Feb-TAC; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
albacore, mahi mahi	longline, drifting	456	Not applicable	Not applicable	Jan-Dec; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Export Fisheries with No Information											
sea basses	aquaculture	326	none provided	none provided	year-round; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
sea bream	aquaculture	326	none provided	none provided	year-round; Mediterranean Sea: Eastern Ionian, Aegean Sea (FAO 37.3.1, 37.2.2)	marine mammals present in the area, species not specified.	none documented	C/O, A/G		EU provided, U.S. Trade Data	
caviar (mullet roe)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
herring	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
sea cucumber	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	

Greenland

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Exempt Fisheries											
scallop	dredges	4	not applicable	not applicable	year-round fishery; inshore, west coast of Greenland (Nuuk to Upernavik)	none documented	none documented	A/G		Greenland-provided	U.S. scallop dredges are Category III
Cod	handlines	none provided	not applicable	not applicable	year-round fishery; Inshore	none provided	none provided	C/O, A/G		Greenland-provided	
Cod	handlines	none provided	not applicable	not applicable	year-round fishery; East Greenland	none provided	none provided	C/O, A/G		Greenland-provided	
capelin	hand nets	0	not applicable	not applicable	May-July; inshore, Disko Bay and further north	in area, interactions not indicated	very low risk	P, A/G		Greenland-provided	likely hand-seines from shore, very low likelihood of MM interaction
shrimp	trawl	4 - 15	not applicable	not applicable	year-round fishery; Offshore, location not specified, inshore Disko Bay, and East Greenland, offshore West Greenland	No by-catches of seals or whales are recorded from this fishery	few	P, A/G		Greenland-provided	sorting grid required, Inspectors have observed a few seals entangled in shrimp trawls, but it is unknown whether these observations preceded the sorting grids.
Export Fisheries											
snow crab	pots	19 - 43	not applicable	not applicable	April-December; inshore, west coast of Greenland from Upernavik and southwards	Humpback whales and bowhead whales have occasionally been entangled in the lines attached to the pots*	3 annually (1998-2016)	P, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	* An average registration of three large whales annually is registered as entanglements in Greenland in the period 1998-2016. Reported entanglements have occurred in relation to crab pot fisheries. Whales have been captured in the lines between the submerged pots and floating/marking buoys. The reported by-catch in Greenland of a modest number of whales per year, probably reflect an insignificant problem when considering consequences of by-catch on sustainability of the big marine mammals (whales).
snow crab	pots	19 - 43	not applicable	not applicable	April-December; deep sea, offshore west coast of Greenland, location not specified	Humpback whales and bowhead whales have occasionally been entangled in the lines attached to the pots*	3 annually (1998-2016)	P, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	* An average registration of three large whales annually is registered as entanglements in Greenland in the period 1998-2016. Reported entanglements have occurred in relation to crab pot fisheries. Whales have been captured in the lines between the submerged pots and floating/marking buoys. The reported by-catch in Greenland of a modest number of whales per year, probably reflect an insignificant problem when considering consequences of by-catch on sustainability of the big marine mammals (whales).
Greenland halibut (turbot)	trawl	4 - 274	not applicable	not applicable	summer-November; at depth Nuuk and Qeqertarsuaq, Inshore Disko Bay, Uummannaq, and Upernavik, Qaanaaq, and offshore West Greenland	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	
Greenland halibut (turbot)	gillnet	1000	not applicable	not applicable	summer-November; inshore West Greenland at depth Nuuk and Qeqertarsuaq, Inshore Disko Bay, Uummannaq, and Upernavik, Qaanaaq	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Greenland halibut (turbot)	gillnet	6	not applicable	not applicable	summer-November; inshore West Greenland at depth Nuuk and Qeqertarsuaq, Inshore Disko Bay, Uummannaq, and Upernavik, Qaanaaq	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	Then, based on the spatial overlap between fishery and abundance of mammals, we find that risk for entanglement of seals and/or whales in fishing gear certainly exists. As we regard set gill nets and pound nets as being the highest risk gear types, the use of such gear in coastal fisheries for Greenland halibut, cod, salmon and lumpfish is probably human activities where the risk for entanglement of mammals are the highest. Fisheries using gill nets and pound nets are mainly taking place during six months from May-October. This period directly overlaps the period when the harp seals and hooded seals, along with the big baleen whales are most abundant in the near shore Greenlandic waters.
Greenland halibut (turbot)	longline	1000	not applicable	not applicable	summer-November; Inshore West Greenland at depth Nuuk and Qeqertarsuaq, Inshore Disko Bay, Uummannaq, and Upernavik, Qaanaaq	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	
Cod	pound nets	none provided	not applicable	not applicable	year-round fishery; Inshore and East Greenland	humpback whales	2	P, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	There is a potential for by-catch in this fishery. Pound nets are among the fishing gear involved in entanglement of large baleen whales, especially humpback whales
Cod	longline	none provided	not applicable	not applicable	year-round fishery; Inshore and East Greenland	none provided	none provided	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	
Cod	trawl	Dinghies and small vessels (all licensed vessels)	not applicable	not applicable	year-round fishery; Offshore, Inshore Greenland	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	
Cod	gillnet, set	Dinghies and small vessels (all licensed vessels)	not applicable	not applicable	year-round fishery; Offshore, Inshore Greenland	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	Then, based on the spatial overlap between fishery and abundance of mammals, we find that risk for entanglement of seals and/or whales in fishing gear certainly exists. As we regard set gill nets and pound nets as being the highest risk gear types, the use of such gear in coastal fisheries for Greenland halibut, cod, salmon and lumpfish is probably human activities where the risk for entanglement of mammals are the highest. Fisheries using gill nets and pound nets are mainly taking place during six months from May-October. This period directly overlaps the period when the harp seals and hooded seals, along with the big baleen whales are most abundant in the near shore Greenlandic waters.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
capelin	purse seine, pair trawl	2	not applicable	not applicable	June-August; offshore (66-69 degrees N)	none documented	none documented	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	firecrackers are used for noise to keep large whales away from the fishing area
Lumpfish	gillnet	not applicable	not applicable	not applicable	March-July; Inshore (59-72 degrees N) East and West Greenland	none provided	none provided	C/O, A/G	Bycatches of marine mammals are reported and dealt with in the appropriate organisations and expert working groups. Data by fisheries inspectors collected from the fisheries shows low numbers of marine mammal by-catches.	Greenland-provided	likely shore-based, There is a potential for by-catch in this fishery. Gill nets are among the fishing gear involved in by-catches of seals and small cetaceans. Then, based on the spatial overlap between fishery and abundance of mammals, we find that risk for entanglement of seals and/or whales in fishing gear certainly exists. As we regard set gill nets and pound nets as being the highest risk gear types, the use of such gear in coastal fisheries for Greenland halibut, cod, salmon and lumpfish is probably human activities where the risk for entanglement of mammals are the highest. Fisheries using gill nets and pound nets are mainly taking place during six months from May-October. This period directly overlaps the period when the harp seals and hooded seals, along with the big baleen whales are most abundant in the near shore Greenlandic waters.
Grenada											
Exempt Fisheries											
Lobster, rock	diving, loops	100 open vessels with a size range of 16-24 feet (4.9 - 7.3 m)	Not applicable	Not applicable	North, NE, South and SE coasts of Grenada			A/G		ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_GD.pdf , http://www.fao.org/3/a-11926e.pdf	
Snapper, grouper	Handline	130 open vessels under 18 feet (5.5 meters)	Not applicable	Not applicable	north, south, SE and NE coasts of mainland Grenada, and the Grenada Grenadines - Carriacou, and Petite Martinique	None provided	None provided	A/G		ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_GD.pdf	
Snapper, grouper	longline, bottom	130 open vessels under 18 feet (5.5 meters)	Not applicable	Not applicable	north, south, SE and NE coasts of mainland Grenada, and the Grenada Grenadines - Carriacou, and Petite Martinique	None provided	None provided	A/G		ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_GD.pdf	
Snapper, grouper	pots	130 open vessels under 18 feet (5.5 meters)	Not applicable	Not applicable	north, south, SE and NE coasts of mainland Grenada, and the Grenada Grenadines - Carriacou, and Petite Martinique	None provided	None provided	A/G		ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_GD.pdf	Gulf of Mexico mixed species trap/pot
Crab	pots	None provided	None provided	None provided	None provided	None provided	None provided	A/G		U.S. trade data	Gulf of Mexico blue crab trap/pot
Export Fisheries											
Lobster, rock	trammel nets	100 open vessels with a size range of 16-24 feet (4.9 - 7.3 m)	Not applicable	Not applicable	North, NE, South and SE coasts of Grenada	None provided	None provided	A/G		ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_GD.pdf , http://www.fao.org/3/a-11926e.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna (albacore, yellowfin, bigeye), swordfish, dolphinfish	longline	70 multi-day vessels, 270 open day-boats, 120 surface longline 200 hooks pirogue 7-9 m boats, 210 surface longline 150 hooks open 5-7 m boats, 130 trolling lines - 3 open pirogue boats	Not applicable	Not applicable	West coast Grenada	None provided	None provided	A/G		U.S. trade data	
Tuna (albacore, yellowfin, bigeye), swordfish, dolphinfish	troll	130 trolling lines - 3 open pirogue boats	Not applicable	Not applicable	West coast Grenada	None provided	None provided	A/G		U.S. trade data	
Export Fisheries with No Information											
Squid	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data	
Flatfish (sole)	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data	
Shad, sturgeon	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data	
Guatemala											
Export Fisheries											
Shrimp	trawl	24	Not Applicable	Not Applicable	Pacific, EEZ	None documented	None documented	A/G		U.S. Trade Data	Note: According to GTM submission, they prohibit all intentional killing or capture of marine mammals.
Snapper, Grouper, Seabass, Dorado, shark, dolphinfish, tuna	longline	27	Not Applicable	Not Applicable	Pacific, EEZ, Inter-American Tropical Tuna Commission Convention Area	None documented	None documented	A/G	IATTC	U.S. Trade Data	
Shrimp	trawl	27	Not Applicable	Not Applicable	Atlantic, EEZ	None documented	None documented	A/G		U.S. Trade Data	
Shark, snapper, grouper	longline	6	Not Applicable	Not Applicable	Atlantic, EEZ	None documented	None documented	A/G		Quintana-Rizzo, E. (2011) Harpooning and entanglement of wild dolphins in the Pacific coast of Guatemala. Latin American Journal of Aquatic Mammals 9 (2): 179-182.	small cetaceans illegally used for bait in shark fishery sometimes, source: Quintana-Rizzo, E. (2011)
Tuna	purse seine	2	Not Applicable	Not Applicable	Atlantic, EEZ, International Convention for the Conservation of Atlantic Tuna Convention Area	None documented	None documented	A/G	ICCAT	U.S. Trade Data	
Export Fisheries with No Information											
Marine Fish	none provided	none provided	Not Applicable	Not Applicable	none provided	none provided	none provided	N/I		source: US Trade Data	
Guinea											
Exempt Fisheries											
Tuna - yellowfin	pole and line	12 E.U. vessels	none provided	none provided	Atlantic, Eastern Central FAO Area 34, West Coast of Africa	none provided	none provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/guinea_bissau	
Export Fisheries											
flatfish	trawl	2 Spain-Stern Trawler for Bottom trawl black hake fishery, at least 74 fishing vessel owned by 4 Chinese Distant Water Fishing (DWF), 462 trawlers	none provided	none provided	Atlantic, Eastern Central FAO Area 34, West Coast of Africa	none provided	none provided	A/G, N/I		U.S. Trade Data, http://www.bbc.com/news/world-africa-36734578 , http://www.worldbank.org/en/news/press-release/2015/03/16/world-bank-boosts-fisheries-in-mauritania-and-guinea-contributing-to-the-ebola-recovery	Discussion of dolphin bycatch in artisanal subsistence fishery, Leeney RH et al 2015

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
small pelagic fish, herring	trawl	2 Spain-Stern Trawler for Bottom trawl black hake fishery, at least 74 fishing vessel owned by 4 Chinese Distant Water Fishing (DWF), 462 trawlers	none provided	none provided	Atlantic, Eastern Central FAO Area 34, West Coast of Africa	none provided	none provided	A/G, N/I		U.S. Trade Data, http://www.greenpeace.org/africa/Global/africa/graphics/Scam%20on%20the%20African%20Coast/AFRICA%E2%80%99S%20FISHERIES%E2%80%99%20PARADISE%20AT%20A%20CROSSROADS_FULL%20REPORT.pdf	
Tuna - yellowfin	purse seine	28 E.U. seiners	none provided	none provided	Atlantic, Eastern Central FAO Area 34, West Coast of Africa	none provided	none provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/guinea_bissau	
Tuna - yellowfin	longline	28 E.U. vessels	none provided	none provided	Atlantic, Eastern Central FAO Area 34, West Coast of Africa	none provided	none provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/guinea_bissau	
groundfish (cod, hake, cusk, haddock, pollock)	trawl	2 Spain-Stern Trawler for Bottom trawl black hake fishery, at least 74 fishing vessel owned by 4 Chinese Distant Water Fishing (DWF), 462 trawlers	none provided	none provided	Atlantic, Eastern Central FAO Area 34, West Coast of Africa	none provided	none provided	A/G, N/I		U.S. Trade Data	

Guyana

Exempt Fisheries											
snapper	handline	65	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
shark, grouper	handline	58	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	same vessels as the snapper trap fishery, operating in shallow water
marine snail	hand collection	none provided	none provided	none provided	none provided	none provided	none provided	A/G		U.S. Trade Data	
Export Fisheries											
crab	trap	58	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
butterfish	trawl	113	not applicable	not applicable	Guyana EEZ December to February; inshore, Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	bycatch reduction devices required on all trawl vessels, mandatory logbook reporting
shrimp (seabob)	trawl	87	not applicable	not applicable	offshore, Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	bycatch reduction devices required on all trawl vessels, mandatory logbook reporting
shrimp (prawn), crab, snapper, lobster	trawl	26	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_GY.pdf	bycatch reduction devices required on all trawl vessels, mandatory logbook reporting
snapper, grouper tuna (bigeye, yellowfin) swordfish, mackerel, dolphinfish	trap	58	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
mackerel	gillnet	808	not applicable	not applicable	Guyana EEZ	sperm whale	1	P, A/G		U.S. Trade Data, Guyana provided	tangled in net, reported by fisherman, unconfirmed. Whale not recovered.
drum, croaker, sea bream, snook, grouper, butterflyfish, shrimp, snapper, crab, sea catfish	gillnet	808	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
drum, croaker, sea bream, snook, grouper, butterflyfish, shrimp, snapper, crab, sea catfish	fyke net	307	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
drum, croaker, sea bream, snook, grouper, butterflyfish, shrimp, snapper, crab, sea catfish	Cadell line (midwater set longline)	87	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
drum, croaker, sea bream, snook, grouper, butterflyfish, shrimp, snapper, crab, sea catfish	pin seine (small seine)	32	not applicable	not applicable	Guyana EEZ	none provided	none provided	A/G		U.S. Trade Data, Guyana provided	
Export Fisheries with No Information											

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groundfish (flatfish, sole, haddock, cod, hake, whiting)	none provided	none provided	none provided	none provided	Guyana EEZ	none provided	none provided	N/I		U.S Trade Data	
salmon	none provided	none provided	none provided	none provided	Guyana EEZ	none provided	none provided	N/I		U.S Trade Data	
mullet	none provided	none provided	none provided	none provided	Guyana EEZ	none provided	none provided	N/I		U.S Trade Data	
Haiti											
Exempt Fisheries											
coral	hand collection	None provided	None provided	None provided	None provided	None provided	None provided		None provided	U.S. trade data	
Export Fisheries with No Information											
conch	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	None provided	U.S. trade data	
lobster	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	None provided	U.S. trade data	
molluscs	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	None provided	U.S. trade data	
sea cucumbers	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	None provided	U.S. trade data	
shrimp	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	None provided	U.S. trade data	
crab	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I	None provided	U.S. trade data	
Honduras											
Exempt Fisheries											
coral	hand collection	none provided	Parma Blanca	none provided	none provided	none provided	none provided			U.S. Trade Data	
conch, molluscs	hand collection and diving	none provided	Parma Blanca	not applicable	The Caribbean Sea (FAO Area 31)	none provided	none provided	A/G		U.S. Trade Data	The conch fishery was closed in 2003, remaining open only for a research program, the Honduras Queen Conch Research Study (Ehrhardt and Galo 2005).
crab, lobster	hand collection and diving	none provided	Parma Blanca	not applicable	The Caribbean Sea (FAO Area 31)	none provided	none provided	A/G		U.S. Trade Data	
crab, lobster (spiny), conch	traps	none provided	Parma Blanca	not applicable	The Caribbean Sea (FAO Area 31)	none provided	none provided	A/G		U.S. Trade Data	
sea cucumbers	hand collection and diving	8	Parma Blanca	not applicable	The Caribbean Sea (FAO Area 31)	none provided	none provided	A/G		U.S. Trade Data U.S. Trade Data, http://www.fao.org/fishery/countrysector/naso_honduras/en	
shrimp (white)	aquaculture	none provided	Parma Blanca	none provided	none provided	none provided	none provided	A/G			
Export Fisheries											
shrimp (southern white, pink)	trawl	none provided	Parma Blanca	not applicable	The Caribbean Sea (FAO Area 31)	none provided	none provided	A/G, N/I		U.S. Trade Data	
Shrimp (western white shrimp, blue shrimp, whiteleg shrimp)	trawl	none provided	Parma Blanca	not applicable	Fonseca Gulf, Pacific, Eastern Central, FAO Area 77	none provided	none provided	A/G, N/I		U.S. Trade Data	
tuna, albacore, bigeye, skipjack, yellowfin, dolphinfish, swordfish	longline	none provided	Parma Blanca	none provided	The Caribbean Sea (FAO Area 31), International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G, N/I		U.S. Trade Data	
Export Fisheries with No Information											
grouper, snapper	none provided	none provided	Parma Blanca	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	Nassau grouper population collapsed in 2004, being commercially viable no longer.
Iceland											
Exempt Fisheries											
seaweed	claw and cutting extraction	not applicable	not applicable	not applicable	Breidafjordur, Iceland	none documented	none documented	A/G		Iceland provided	
multispecies (shellfish, sea cucumber, finfish)	dredge	not applicable	not applicable	not applicable	Icelandic EEZ	none documented	none documented	A/G		Iceland provided	
multispecies finfish	Danish seine	not applicable	not applicable	not applicable	Icelandic EEZ	none documented	none documented	A/G		Iceland provided	

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multispecies finfish	Hand line	not applicable	not applicable	not applicable	Icelandic EEZ	none documented	none documented	A/G		Iceland provided	
multispecies finfish	Ocean fishing rod	not applicable	not applicable	not applicable	Icelandic EEZ	none documented	none documented	A/G		Iceland provided	
Export Fisheries											
blue mussel	aquaculture (lines)	1	none provided	not applicable	Iceland EEZ	humpback whale	1	P		MSRA database: IWC 2010	non-lethal interaction
Salmon	Aquaculture - Coastal	not applicable	none provided	not applicable	Iceland, coastal	none provided	none provided			Iceland provided	No legal requirements for documenting MM interactions or not to harm MM
Trout	Aquaculture - Coastal	not applicable	none provided	not applicable	Iceland, coastal	none provided	none provided			Iceland provided	No legal requirements for documenting MM interactions or not to harm MM
multispecies finfish	Bottom Longline	not applicable	not applicable	not applicable	Icelandic EEZ	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish and prawn	Bottom trawl	not applicable	not applicable	not applicable	NEAFC regulatory area	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
prawn	Shrimp trawl (midwater trawl)	not applicable	not applicable	not applicable	Svalbard	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
Oceanic redfish	Bottom trawl	not applicable	not applicable	not applicable	Irminger SEA	Harbour seal, gray seal	28, 22	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Bottom trawl	not applicable	not applicable	not applicable	Norwegian jurisdiction	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Bottom trawl	not applicable	not applicable	not applicable	Russian jurisdiction	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Bottom trawl	not applicable	not applicable	not applicable	Icelandic EEZ	Harbour seal, gray seal	28, 22	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
Capelin	Capelin mid-water trawl	not applicable	not applicable	not applicable	Icelandic EEZ	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Capelin seine	not applicable	not applicable	not applicable	Icelandic EEZ	Humpback whale	Unknown	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	non-lethal interactions, dockside monitoring and on-board inspectors
multispecies finfish and crustacean and finfish (cod and gurnard)	trap	not applicable	not applicable	not applicable	Icelandic EEZ	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish (main target cod)	cod gillnet	not applicable	not applicable	not applicable	Icelandic EEZ	Harbour porpoise, harbour seal, grey seal, harp seal, ringed seal, hooded seal, humpback whale, white beaked dolphin	1800, 20, 10, 150, 10, 1, 1 reported in 2016, 1	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries, IWC 2010"	dockside monitoring and on-board inspectors
multispecies finfish	Herring seine	not applicable	not applicable	not applicable	Icelandic EEZ	Killer whale Harbour seal, gray seal, harp seal, ringed seal, bearded seal, harbour porpoise, white beaked dolphin	Unknown	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	non-lethal interactions, dockside monitoring and on-board inspectors
multispecies finfish (main target lumpsucker)	Lumpsucker gillnet	not applicable	not applicable	not applicable	Icelandic EEZ	Harbour porpoise, white beaked dolphin	900, 1600, 120, 80, 40, 340, 1 reported in 2016	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
Oceanic redfish	Midwater trawl	not applicable	not applicable	not applicable	Irminger SEA	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Midwater trawl	not applicable	not applicable	not applicable	East Greenland	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Midwater trawl	not applicable	not applicable	not applicable	NEAFC regulatory area	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish and squid	Midwater trawl	not applicable	not applicable	not applicable	Faroe islands	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish	Midwater trawl	not applicable	not applicable	not applicable	Icelandic EEZ	None documented	None documented	C/O, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish (main target monkfish)	Monkfish gillnet	not applicable	not applicable	not applicable	Icelandic EEZ	Harbour porpoise, harbour seal	500, 170	P, A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
multispecies finfish and Norwegian lobster (nephrops)	Nephrops trawl	not applicable	not applicable	not applicable	Icelandic EEZ	None documented	None documented	A/G		Iceland provided, "By-catch of sea birds and marine mammals in Icelandic fisheries"	dockside monitoring and on-board inspectors
tuna (bluefin)	longline	1	none provided	none provided	Iceland EEZ/International Convention for the Conservation of Atlantic Tuna Convention Area	none documented	none documented	A/G	ICCAT	Iceland provided, U.S. Trade Data, http://www.iccat.int/Documents/BienRep/REP_TRILINGUAL_14-15_II_3.pdf	mandatory logbook reporting
Export Fisheries with No Information											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
caviar	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade Data	capelin roe? Lumpfish roe? Sturgeon?	
conch	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade Data		
lobster (homarus spp)	Humarvarpa (lobster trawl?)	13	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade Data		
India											
Exempt Fisheries											
seaweed	aquaculture (lines), hand collection	not applicable	not applicable	not applicable	Indian Ocean, eastern (FAO Area 57)	none documented	none documented	A/G, N/I		India provided: NOAA spreadsheet Import; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf This aquaculture occurs in intertidal zone	
mussels, clams	aquaculture (inland rope in nominal quantities for mussels only); hand pick, hand dredge (mussels and clams)	wooden canoes, used and specific data not available	none provided	not applicable	Inland, Ganges River (FAO Area 4)	none documented	none documented	A/G, N/I		India provided: "Marine Fisheries Census, 2010"; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	
multi-species fish, including sharks, skates, rays, herring, shad, mullet, sardines, menhaden, jacks, mackerels, pompanos, sharks, seerfish, catfish, pomfrets, tunas, snapper, group	handline	none provided	not applicable	not applicable	Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	none documented	none documented	A/G	Wildlife Protection Act	India provided, U.S. Trade Data, Cetacean Bycatch Appendix; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	
Export Fisheries											
anchovy, sardine, mackerel (jack, horse), sprat, herring, shad, mullet, menhaden, jacks, pompanos, sharks, seerfish, catfish, pomfrets, tunas, skates, rays	purse seine, ring seine	purse seine (51, all < 25m overall length); ring seine (147 all <25 m overall length)	12 -23	not applicable	Karnataka, Goa and Maharashtra, Kerala, Tamil Nadu, Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	Indo-Pacific humpback dolphins	2 (2001)	P, A/G	Wildlife Protection Act	India provided: NOAA spreadsheet Import; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	Only 2 instances (Indo-Pacific humpback dolphin) reported in 2001 from FAO area 51
anchovy, sardine, mackerel (jack, horse), sprat	purse seine	purse seine (51, all < 25m overall length)	12	not applicable	West coast: Mangalore	finless porpoise	14	P, A/G	Wildlife Protection Act	in Youseff et al., 2009: Observations on incidental catch of cetaceans in three landing centers along the Indian coast; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	
butterfish	gillnet	5663	13	not applicable	Indian Ocean, western (FAO Area 51)	rough-toothed dolphin, Risso's dolphin, pantropical spotted dolphin, long-beaked common dolphin, Indo-Pacific bottlenose dolphin, Indo-Pacific humpback dolphin, spinner dolphin, finless porpoise	533	A/G	Wildlife Protection Act	India provided: NOAA spreadsheet Import; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India estimates that 533 instances of marine mammal bycatch from 1950 - 2015. India claims interactions with this gear type are as low as 8.20 per year.
catfish (marine), skates, rays	gillnet	3700	India claims no export to U.S. but U.S. Trade Data includes exports of catfish	not applicable	Indian Ocean, eastern (FAO Area 57)	rough-toothed dolphin, Risso's dolphin, pantropical spotted dolphin, long-beaked common dolphin, Indo-Pacific bottlenose dolphin, Indo-Pacific humpback dolphin, spinner dolphin, finless porpoise	224 (1950-2015)	P, A/G	Wildlife Protection Act	India provided: NOAA spreadsheet Import, Cetacean Bycatch Appendix; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India claims no export to U.S. but U.S. Trade Data includes exports of catfish. India claims interaction with this gear type are as low as 3.45 per year.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
swimming crab (Portunidae), cuttlefish, squid, sole	trawl	27971	5	not applicable	Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	none documented	none documented	A/G	Wildlife Protection Act	India provided: NOAA spreadsheet Import, Cetacean Bycatch Appendix; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India claims there are no marine mammal interactions in this fishery.
grouper, snapper	gillnet	5309	8	not applicable	Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	rough-toothed dolphin, Risso's dolphin, pantropical spotted dolphin, long-beaked common dolphin, Indo-Pacific bottlenose dolphin, Indo-Pacific humpback dolphin, spinner dolphin, finless porpoise	757 (1950 - 2015) (224 in FAO Area 57 and 533 in FAO Area 51)	P, A/G	Wildlife Protection Act	India provided, U.S. Trade Data, Cetacean Bycatch Appendix; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India estimates that 757 instances of marine mammal bycatch from 1950 - 2015) India claims interactions with this gear type are as low as 11.64 per year. On the West coast: Calicut, Mangalore 15 common dolphin, 4 spinner dolphin, and 2 Indo-Pacific humpback dolphin were bycaught in 2004; On the East coast: Channai, Kakinada 13 spinner dolphin, 1 pantropical spotted dolphin, 3 pantropical spotted dolphin, 2 common dolphin, 2 Indo-Pacific humpback dolphin, 2 Risso's dolphin were bycaught in 2004 in Youseff et al., 2009: Observations on incidental catch of cetaceans in three landing centers along the Indian coast.
tuna (yellowfin), sharks,	gillnet	1273	7	not applicable	Indian Ocean, western (FAO Area 51)	rough-toothed dolphin, Risso's dolphin, pantropical spotted dolphin, long-beaked common dolphin, Indo-Pacific bottlenose dolphin, Indo-Pacific humpback dolphin, spinner dolphin, finless porpoise	200, numbers not provided for most species, 2004-2005--9,000-10,000 per year (in all gillnets fisheries assume 7,000 in tuna gillnets)	P, A/G	Wildlife Protection Act	U.S. Trade Data, Cetacean Bycatch Appendix, Anderson et al Indian Ocean Tuna Fishery Review; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India estimates that 533 instances of marine mammal bycatch from 1950 - 2015) India claims interactions with this gear type are as low as 8.20 per year.
tuna, sharks, barracuda, dolphinfish: multi-species fish, including sharks, skates, rays, herring, shad, mullet, sardines, menhaden, jacks, mackerels, pompanos, sharks, seerfish, catfish, pomfrets, tunas	longline	39	7	not applicable	Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	Common dolphin	1	C/O, A/G	Wildlife Protection Act	U.S. Trade Data, IOTC National report	1 instance of long-beaked common dolphin caught in 1979 in FAO Area 57
multi-species fish, including sharks, skates, rays, herring, shad, mullet, sardines, menhaden, jacks, mackerels, pompanos, sharks, seerfish, catfish, pomfrets, tunas	gillnet	1273 - 6936	2 - 23	not applicable	Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	rough-toothed dolphin, Risso's dolphin, pantropical spotted dolphin, long-beaked common dolphin, Indo-Pacific bottlenose dolphin, Indo-Pacific humpback dolphin, spinner dolphin, finless porpoise	757 (1950 - 2015)	P, A/G	Wildlife Protection Act	India provided, U.S. Trade Data, Cetacean Bycatch Appendix; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India estimates that 757 instances of marine mammal bycatch from 1950 - 2015) India claims interactions with this gear type are as low as 11.64 per year. On the West coast: Calicut, Mangalore 15 common dolphin, 4 spinner dolphin, and 2 Indo-Pacific humpback dolphin were bycaught in 2004; On the East coast: Channai, Kakinada 13 spinner dolphin, 1 pantropical spotted dolphin, 3 pantropical spotted dolphin, 2 common dolphin, 2 Indo-Pacific humpback dolphin, 2 Risso's dolphin were bycaught in 2004 in Youseff et al., 2009: Observations on incidental catch of cetaceans in three landing centers along the Indian coast.
freshwater fish	gillnet	none provided	not applicable	not applicable	Ganges River (FAO Area 4)	Ganges river dolphin	numbers not provided	P, A/G, N/I	Wildlife Protection Act	Cetacean Bycatch Appendix	targeted species?
octopus	trawl	18102	not applicable	not applicable	Indian Ocean, western (FAO Area 51)	none documented	none documented	A/G	Wildlife Protection Act	India provided: NOAA spreadsheet Import; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India claims no export to U.S. but U.S. Trade Data includes exports of octopus.
shrimp	trawl	31262	112	not applicable	Indian Ocean, eastern (FAO Area 57) and Indian Ocean, western (FAO Area 51)	none documented	none documented	A/G	Wildlife Protection Act	India provided: NOAA spreadsheet Import, Cetacean Bycatch Appendix; http://eprints.cmfri.org.in/9829/1/ICT_Oriented_Strategic_Extension_for_Responsible_Fisheries_Management_Manual-35-46.pdf	India claims there are no marine mammal interactions in this fishery.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Euryhaline fish and invertebrates	driftnet	none provided	not applicable	not applicable	Ganges River (FAO Area 4)	Irrawaddy dolphin, spinner dolphin	numbers not provided	P, A/G, N/I	Wildlife Protection Act	Cetacean Bycatch Appendix	
Indonesia											
Exempt Fisheries											
Cuttlefish, scallop, squid	jig	none provided	not applicable	not applicable	[all year] Territorial Waters/EEZ/ Indonesia Fisheries Management Area (711, 713, 718)	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	Indonesia Fisheries Management Area (Wilayah Pengelolaan Perikanan Negara Republic Indonesia - WPPRI) refers to Ministerial Decree No. 18/PERMEN-KP/2014 on the Republic of Indonesia of the Fisheries Management Area.
Cuttlefish, scallop, squid	lift net	none provided	not applicable	not applicable	[all year] Territorial Waters/EEZ/ Indonesia Fisheries Management Area (711, 713, 718)EZ/ Indonesia Fisheries Management Area (711, 713, 718)	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	HI Liftnet is a Category III fishery
Cuttlefish, scallop, squid	Bouke Ami (stick held lift net)	none provided	not applicable	not applicable	[all year] Territorial Waters/EEZ/ Indonesia Fisheries Management Area (711, 713, 718)	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Cuttlefish/scallop/squid	Cast net	none provided	not applicable	not applicable	[all year] Territorial Waters/EEZ/ Indonesia Fisheries Management Area (711, 713, 718)	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Octopus	hand collection	none provided	not applicable	not applicable	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Fish, shellfish	hand collection	none provided	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	
Groundfish	pot/trap	none provided	not applicable	not applicable	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	HI fish trap is a Category III fishery
Groundfish	aquaculture	not applicable	none provided	none provided	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	HI offshore pen culture is a Category III
Grouper	pot/trap	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	HI fish trap is a Category III fishery
Grouper	aquaculture	not applicable	none provided	none provided	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	HI offshore pen culture is a Category III
Sea bass	pot/trap	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	HI fish trap is a Category III fishery
Sea cucumbers	handpicking	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Snapper	pot/trap	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	HI fish trap is a Category III fishery
Clam	hand collection	none provided	not applicable	not applicable	[all year] none provided	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	
Crab	pot/trap	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	This gear is usually made of chicken wire mesh and set up near coral reefs in the sea or used in the rivers or streams are usually made of woven bamboo or steel with the mouth facing the oncoming flow of water.
Crab swimming	pot/trap	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	This gear is usually made of chicken wire mesh and set up near coral reefs in the sea or used in the rivers or streams are usually made of woven bamboo or steel with the mouth facing the oncoming flow of water. Analogous gear is HI fish or crab trap Category III
Aquatic inverts	hand collection	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Coral, shells, cuttlebone	hand collection	handpicking, non fishing vessel	not applicable	not applicable	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Crustaceans	aquaculture	not applicable	none provided	none provided	[all year] Territorial Waters	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Seaweed and other algae	aquaculture	not applicable	none provided	none provided	[all year] Territorial waters (onshore)	none documented	none documented	A/G		U.S Trade Database; Indonesia provided	
Lobster (rock)	hand collection	handpicking, non fishing vessel	not applicable	none provided	[all year] Territorial waters (onshore)	none provided	none provided	A/G		U.S Trade Database; Indonesia provided	
Tuna (bigeye, albacore, yellowfin), swordfish	handline	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area (571: Malacca Strait and Andaman Sea; 572: Indian Ocean of western Sumatera and Sunda Strait; 573: Indian Ocean of southern Java, southern Nusa Tenggara, Sawu Sea and western of Timor Sea; 716: Sulawesi Sea and northern of Halmahera Island; 717: Cendrawasih Bay and Pacific Ocean)	none documented	none documented	A/G	IOTC, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	
Tuna (bigeye, albacore, yellowfin)	pole and line	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area (571: Malacca Strait and Andaman Sea; 572: Indian Ocean of western Sumatera and Sunda Strait; 573: Indian Ocean of southern Java, southern Nusa Tenggara, Sawu Sea and western of Timor Sea; 716: Sulawesi Sea and northern of Halmahera Island; 717: Cendrawasih Bay and Pacific Ocean)	none documented	none documented	A/G	IOTC, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	
Tuna (bluefin)	handline	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area 573 (Indian Ocean of southern java, southern nusa tenggara, sawu sea and western of Timor Sea)	none documented	none documented	A/G	IOTC, CCSBT, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	
Tuna (bluefin)	pole and line	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area 573 (Indian Ocean of southern java, southern nusa tenggara, sawu sea and western of Timor Sea)	none documented	none documented	A/G	IOTC, CCSBT, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	

Export Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna (bigeye, albacore, yellowfin)	purse seine	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area (571: Malacca Strait and Andaman Sea; 572: Indian Ocean of western Sumatera and Sunda Strait; 573: Indian Ocean of southern Java, southern Nusa Tenggara, Sawu Sea and western of Timor Sea; 716: Sulawesi Sea and northern of Halmahera Island; 717: Cendrawasih Bay and Pacific Ocean)	none provided	none provided	N/I, A/G	IOTC, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	Dolphin species constitute the majority of bycatch. • By location, the highest percentages of fishermen who report bycatch come from North Sulawesi (20.6%) or Seram (15%). Most of these were fishermen who use mini-purse seine fishing gear. • Bycatch occurs most often during shorter trips of up to 2 days. • Fisherman reported that cetaceans accidentally caught in fishing gear are most often released alive. Further study is needed to validate this and to better understand bycatch issues associated with other gear types.
Tuna (bluefin)	purse seine	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area 573 (Indian Ocean of southern java, southern nusa tenggara, sawu sea and western of Timor Sea)	none provided	none provided	N/I, A/G	IOTC, CCSBT, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	
Tuna (bigeye, albacore, yellowfin), swordfish	longline	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area (571: Malacca Strait and Andaman Sea; 572: Indian Ocean of western Sumatera and Sunda Strait; 573: Indian Ocean of southern Java, southern Nusa Tenggara, Sawu Sea and western of Timor Sea; 716: Sulawesi Sea and northern of Halmahera Island; 717: Cendrawasih Bay and Pacific Ocean)	Rough tooth dolphin, killer whales, false killer whales, and pilot whales	none provided	N/I, A/G	IOTC, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	Rough toothed dolphins, orca, false killer whales and pilot whales are reported to remove fish from longlines and from around fish aggregated devices. Fishermen will scare them away by throwing objects at them or hitting the side of the boat.
Tuna (bluefin)	longline	1004	not applicable	not applicable	[all year] Territorial Waters/EEZ/Indonesia Fisheries Management Area 573 (Indian Ocean of southern java, southern nusa tenggara, sawu sea and western of Timor Sea)	Rough tooth dolphin, killer whales, false killer whales, and pilot whales	none provided	N/I, A/G	IOTC, CCSBT, WCPFC	U.S Trade Database; Indonesia provided; WCPFC, FAO Tech paper 588, WCPO risk asmt	Rough toothed dolphins, orca, false killer whales and pilot whales are reported to remove fish from longlines and from around fish aggregated devices. Fishermen will scare them away by throwing objects at them or hitting the side of the boat.
Shark	gillnet	none provided	not applicable	not applicable	Australian EEZ	Indopacific bottlenose dolphin, dwarf spinner dolphin	thousands	P, A/G		Problems of marine mammal conservation in Southeast Asia, 2002	not reported, might be no longer applicable. Was not reported specifically on our imports or in their data
Grouper, snapper	gillnet	none provided	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	N/I, A/G		U.S Trade Database; Indonesia provided	
Export Fisheries with No Information											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Mackerel	none provided	none provided	not applicable	none provided	[all year] Territorial Waters/EEZ/ Indonesia Fisheries Management Area (including Aru Bay, Arafuru Sea and Eastern of Timor Sea)	none provided	none provided	N/I, A/G	IOTC	U.S Trade Database; Indonesia provided	
Dolphinfish	other fish net	thousands	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	N/I, A/G		U.S Trade Database; Indonesia provided	
Fish	other fish net	thousands	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	N/I, A/G		U.S Trade Database; Indonesia provided	
Flatfish	other fish net	thousands	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	N/I, A/G		U.S Trade Database; Indonesia provided	
Marine fish	other fish net	none provided	not applicable	not applicable	[all year] Territorial Waters	none provided	none provided	N/I, A/G		U.S Trade Database; Indonesia provided	

Iran

Exempt Fisheries											
tuna, yellowfin, skipjack, bigeye, longtail	purse seine	6	not applicable	not applicable	Iranian southern waters, Persian Gulf and Oman Sea	none provided	none provided	A/G		file:///C:/Users/nina.young/Downloads/IOTC-2014-WPDCS10-12_Rev2_-_IRAN_Statistics.pdf	prohibition on intentional sets on dolphins
Export Fisheries											
caviar, sturgeon	gillnet	231 (600 fishermen)	not applicable	not applicable	Caspian Sea	none provided	none provided	A/G, N/I		U.S. Trade Data	
shrimp	trawl	industrial vessels, artisanal boats	not applicable	not applicable	Iranian waters	none provided	none provided	A/G, N/I		U.S. Trade Data	
tuna, yellowfin, skipjack, bigeye, longtail	gillnet	2202 artisanal vessels, 3741 fishing boats	not applicable	not applicable	Iranian waters, Persian Gulf and Oman Sea	Spinner, common, bottlenose and humpbacked dolphins	24,694 all species	P		file:///C:/Users/nina.young/Downloads/IOTC-2014-WPDCS10-12_Rev2_-_IRAN_Statistics.pdf	
tuna, yellowfin, skipjack, bigeye, longtail	troll	854	not applicable	not applicable	Iranian waters, Persian Gulf and Oman Sea	none provided	none provided	A/G, N/I		file:///C:/Users/nina.young/Downloads/IOTC-2014-WPDCS10-12_Rev2_-_IRAN_Statistics.pdf	Analogous fishery is HI and Guam Troll, Category III

Ireland

Export Fisheries											
Mackerel	trawl, pelagic	50-70	not applicable	not applicable	Northeast Atlantic Area 27 October through March	FAO None documented	None documented	A/G, C/O		Young and Iudicello, 2007 at page AA-12	Marine mammals are present in the area. Observer coverage since 2005: 17 vessels, 185 days at sea , 178 hauls Literature indicates that Atlantic white-sided dolphins are taken in pelagic trawl fisheries for mackerel southwest of Ireland.
Blue whiting	trawl, pelagic	10-30	not applicable	not applicable	Northeast Atlantic Area 27 February through April	FAO None documented	None documented	A/G, C/O			Marine mammals are present in the area. Observer coverage since 2005: 12 vessels, 149 days at sea , 215 hauls
crawfish	tanglenet	none provided	none provided	none provided	none provided	gray seal, harbor seal	none provided	A/G, C/O, P		MSRA database cross-check, in: "Seal bycatch in gillnet and entangling net fisheries in Irish waters"	
pollock, spiny lobster, hake	gillnet	none provided	none provided	none provided	Atlantic Ocean - Celtic Sea	Harbor Porpoise common dolphin, white-beaked dolphin	hundreds	A/G, C/O, P		Cetacean Bycatch Appendix, MSRA database cross-check, IWC 2011, 2012	
salmon	driftnet	none provided	none provided	none provided	EEZ		some	A/G, C/O, P		Cetacean Bycatch Appendix	
Export Fisheries with No Information											
crab	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
shellfish, molluscs, mussels	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
herring	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Norwegian lobster	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
seaweed	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
trout	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Export Fisheries											
mackerel, sardines	purse seine	28	none provided	none provided	Mediterranean Sea	none provided	none provided	N/I		www.academia.edu/6119730/fishery_management_and_marine_invasion_in_Israel	
tuna	purse seine	28	none provided	none provided	Mediterranean Sea	none provided	none provided	N/I		www.academia.edu/6119730/fishery_management_and_marine_invasion_in_Israel	
Italy											
Exempt Fisheries											
coral	hand collection	permits to individual fishermen	none provided	none provided	none provided	none provided	none provided			Italy provided, U.S. Trade Data	
swordfish	harpoon	9	not applicable	not applicable	Sicilian waters	none provided	none provided	A/G,		Italy provided, U.S. Trade Data	
clam, mussels, other molluscs	dredge	706	not applicable	not applicable	coastal waters	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
Export Fisheries											
anchovy, European pilchard, sardine	purse seine	358	none provided	none provided	Adriatic Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
anchovy, European pilchard, sardine	trawl, midwater pair	358	none provided	none provided	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
bonito	purse seine	217	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
octopus (ghost cusk-eel, horned octopus, musky octopus, broadtail shortfin squid, cuttlefish, European squid, common squid)	trawl	2196	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
seabass, seabream	small scale fisheries	7820	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
shrimp (deep-water rose shrimp, course shrimp, giant red shrimp, blue and red shrimp, Norway lobster)	trawl	2196	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
squid (broadtail short-fin squid, European squid, Lesser flying squid)	trawl	2196	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	none provided	none provided	A/G, N/I		Italy provided, U.S. Trade Data	
swordfish	longline	842	not applicable	not applicable	Sicilian waters	bottlenose dolphin, Risso's dolphin present in the area	none documented	C/O, A/G	ICCAT	Italy provided, U.S. Trade Data, ICCAT	National Observer Programme carried out in accordance with ICCAT Rec. 16-05
tuna (albacore)	longline	400	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	bottlenose dolphin, Risso's dolphin present in the area	none documented	A/G, N/I	ICCAT	Italy provided, U.S. Trade Data, ICCAT	National Observer Programme carried out in accordance with ICCAT Rec. 16-05
tuna (bluefin)	purse seine	12	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	bottlenose dolphin, Risso's dolphin present in the area	none documented	C/O, A/G	ICCAT	Italy provided, U.S. Trade Data, ICCAT	National Observer Programme carried out in accordance with ICCAT Rec. 16-05
tuna (bluefin)	longline	30	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	bottlenose dolphin, Risso's dolphin present in the area	none documented	C/O, A/G	ICCAT	Italy provided, U.S. Trade Data, ICCAT	National Observer Programme carried out in accordance with ICCAT Rec. 16-06
tuna (bluefin)	traps	6	not applicable	not applicable	Ligurian Sea and North Tyrrhenian Sea, Southern and Central Tyrrhenian Sea, Sardinia, Southern Sicily, Northern Adriatic, Southern Adriatic, Western Ionian Sea	bottlenose dolphin, Risso's dolphin present in the area	none documented	C/O, A/G	ICCAT	Italy provided, U.S. Trade Data, ICCAT	National Observer Programme carried out in accordance with ICCAT Rec. 16-07
Export Fisheries with No Information											
seabass, seabream	aquaculture	Not applicable	none provided	not applicable	none provided	none provided	none provided	N/I		Italy provided, U.S. Trade Data	
Ivory Coast											
Export Fisheries											
shrimp	trawl	47	None provided	None provided	Atlantic, Eastern Central (FAO Area 34) lagoon areas	None provided	None provided	A/G, N/I		U.S. trade data, https://s3-us-west-2.amazonaws.com/legacy.searounds/doc/Researcher+Publications/dpauly/PDF/2015/Working+Papers/Cote+dIvoireFisheriesCatchReconstruction.pdf	shrimp fishery collapsed in 1981
tuna, albacore	purse seine	Purse seiner: Spain: 16, France 12	SCODI Cannery, PFCI Cannery (Pêche et Froid de Cote d'Ivoire)	Not applicable	Atlantic, Eastern Central (FAO Area 34) International Convention for the Conservation of Atlantic Tuna Convention Area	None provided	None provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/cote_d_ivoire_en , http://spo.nmfs.noaa.gov/mfr4312/mfr43125.pdf , http://www.fao.org/docrep/v9982e/v9982e26.htm	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, albacore	longline (surface)	Surface longliner: Spain: 7, Portugal: 3	SCODI Cannery, PFCI Cannery (Peche et Froid de Cote d'Ivoire)	Not applicable	Atlantic, Eastern Central (FAO Area 34) International Convention for the Conservation of Atlantic Tuna Convention Area	None provided	None provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/cote_d_ivoire_en , http://spo.nmfs.noaa.gov/mfr4312/mfr43125.pdf	
Export Fisheries with No Information											
groundfish, cod, cusk, haddock, hake, pollock	purse seine	None provided	None provided	None provided	None provided	None provided	None provided	A/G, N/I		U.S. trade data	
herring, anchovy	purse seine	None provided	None provided	None provided	None provided	None provided	None provided	A/G, N/I		U.S. trade data	
molluscs	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data	
snail	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data	
crustaceans, lobster	None provided	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. trade data	
Jamaica											
Exempt Fisheries											
coral, shells, cuttlebone	hand collection	None provided	not applicable	not applicable	None provided	None provided	None provided			U.S. trade data; Provided by Government of Jamaica	May be re-exports of cuttlebone
Lobster, Caribbean spiny lobster, Caribbean Spotted Spiny lobster	traps, Antillean Z traps to Florida wooden traps	500 licensed artisanal fiberglass vessels (15 ft. to 33 ft. LOA) of which 15 are licensed large scale steel hull vessels (50ft – 85ft)	not applicable	not applicable	Pedro bank mainly; Island shelf – Annual Closed Season for lobsters from April 1 to June 30.	dolphin	none documented	A/G	Member Country for Cartagena Convention, but did not sign the Protocol for Specially Protected Areas and Wildlife	Provided by Government of Jamaica	Jamaica has virtually no history of marine mammal interaction which causes injury or incidental mortality due to the deployment and retrieval of fishing gears. However it is reported that dolphins or porpoises often destroy Antillean Z traps set by fishers in some areas. It is thought that this is an attempt by these mammals to damage the traps and release the fish for consumption. Analogous fishery Category III Caribbean spiny lobster trap pot
Queen Conch, molluscs	Diving Hookah (dive compressors) and SCUBA Free lung diving is also employed in coastal and inshore areas	11 large scale industrial vessels	not applicable	not applicable	Pedro bank mainly; Island shelf – Annual Closed Season for conch from August 1 to March 31 following year	none documented	none documented	A/G		Provided by Government of Jamaica	Although exports have been reduced, it is expected that the respective industries will re-develop and will continue exports to the US and other countries within the next five years. There is no history of marine mammal interaction which causes injury or incidental mortality by the diving for conch.
Sea cucumbers	Diving (Proposed to be Diving only; free lung, dive compressors and SCUBA)	None currently, 2-3 exploratory fishing licenses are being considered	not applicable	not applicable	Pedro bank, Island shelf and proximal banks of Jamaica -- There has been one closed season period designated for sea cucumbers in the past but this has expired. There is no current Closed Season.	none documented	none documented	A/G		Provided by Government of Jamaica	Due to the specificity of diving for this and similar fishery resources, Jamaica expects to have no cases of marine mammal interaction which causes injury or incidental mortality. The Statistical Institute of Jamaica and the Jamaica Customs Agency are the only organizations that have records of countries exporting fish and fish products to Jamaica either for processing or re-export. It will take additional time for the Fisheries Division to access this information and submit to the NOAA-NMFS as this is not normally captured by our data system and may have to be retrieved at a cost.
Japan											
Exempt Fisheries											
Pacific saury	Stick-held dip net Fishery	163	Not applicable	Not applicable	North Pacific Pacific, Japan Sea, East China Sea	None documented	None documented	A/G		Gov't of Japan	
squid/cuttlefish	squid jigging	79	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G		Gov't of Japan	
sardine, anchovy, flying fish	lift net	78	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G		Gov't of Japan	
sardine, anchovy, slender sprat	lift net	17	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G		Gov't of Japan	
horse mackerel, mackerel, yellowtail	angling	3417	Not applicable	Not applicable	Oita prefecture	None documented	None documented	A/G		Gov't of Japan	
horse mackerel, mackerel, sea bream, grunt, hairtail, yellowtail, yellowtail amberjack, grouper	angling	4219	Not applicable	Not applicable	Nagasaki prefecture	None documented	None documented	A/G		Gov't of Japan	
skipjack tuna	angling	2	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G		Gov't of Japan	
corals	coral fishery	4	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G		Gov't of Japan	
rockfish	angling	4440	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G		Gov't of Japan	

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sardine, anchovy, horse mackerel, mackerel, filefish	lift net	219	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G		Gov't of Japan	
sand lance	lift net	22	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G		Gov't of Japan	
horse mackerel, yellowtail, seabream, Japanese Spanish mackerel, squid/cuttlefish, bluefin tuna	angling	1184	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
horse mackerel	lift net	5	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
horse mackerel, shrimp	lift net	32	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
bass	beach seine	14	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
squid/cuttlefish	angling	110	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
flounder, bass	angling	52	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G		Gov't of Japan	
flounder	beach seine	2	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G		Gov't of Japan	
sand lance, squid/cuttlefish, butterflyfish, sardine, anchovy	lift net	48	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G		Gov't of Japan	
seabream	angling	160	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G		Gov't of Japan	
tunas, including albacore, bigeye, yellowfin, bluefin, skipjack, bonito, and swordfish	angling	193	Not applicable	Not applicable	Tokushima prefecture	None documented	None documented	A/G		Gov't of Japan	
Pacific saury	stick-held dip net	6	Not applicable	Not applicable	Iwate prefecture	None documented	None documented	A/G		Gov't of Japan	
squid/cuttlefish	angling	66	Not applicable	Not applicable	Iwate prefecture	None documented	None documented	A/G		Gov't of Japan	
Pacific saury	stick-held dip net	308	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G		Gov't of Japan	
squid/cuttlefish	angling	1498	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G		Gov't of Japan	
corals	coral fishery	1	Not applicable	Not applicable	Other area	None documented	None documented	A/G		Gov't of Japan	
corals	coral fishery	1	Not applicable	Not applicable	Okinawa prefecture	None documented	None documented	A/G		Gov't of Japan	
abalone	diving	40	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
sea urchin	hand collection	6520	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G		Gov't of Japan	
abalone, sea urchin	hand collection	3278	Not applicable	Not applicable	Iwate prefecture	None documented	None documented	A/G		Gov't of Japan	
abalone, sea urchin	diving	185	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G		Gov't of Japan	
abalone, ark shell	hand collection	61	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G		Gov't of Japan	
fan mussel	diving	24	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G		Gov't of Japan	
abalone, turban shell, sea urchin, Japanese littleneck clam, octopus, sea mustard	hand collection	2683	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G		Gov't of Japan	
skipjack tuna, tuna	Pole and Line Fishery	82	Not applicable	Not applicable	Pacific Ocean, Indian Ocean, Atlantic Ocean	None documented	None documented	A/G		Gov't of Japan	
Tuna	Far Seas Tuna Purse Seine Fishery	35	Not applicable	Not applicable	Western and central Pacific, Indian Ocean	None documented	None documented	A/G	WCPFC, IOTC	Gov't of Japan	Tuna fisheries within the jurisdiction of RFMOs with measures that prohibit intentional encirclement are exempt fisheries. (Federal Register p39769) Japanese far seas tuna purse seine fishery is within the jurisdiction of the WCPFC or IOTC. As shown in the Federal Register p39769, the IOTC prohibits members from intentionally setting on cetaceans. The WCPFC prohibits intentionally setting on schools associated with cetaceans and requires reasonable steps to ensure safe release of marine mammals. Fishing operations of Japanese far seas tuna purse seine fishery are observed by the observer program of the WCPFC or the IOTC.
Tuna	Large and middle scale Purse Seine Fishery	85	Not applicable	Not applicable	WCPFC convention area (Western and central Pacific Ocean, Japan Sea, East China Sea and Yellow Sea)	None documented	None documented	A/G	WCPFC	Gov't of Japan	Tuna fisheries within the jurisdiction of RFMOs with measures that prohibit intentional encirclement are exempt fisheries. (Federal Register p39769). Japanese large and middle scale purse seine fishery for tuna is within the jurisdiction of the WCPFC. As shown in the Federal Register p39769, The WCPFC prohibits intentionally setting on schools associated with cetaceans and requires reasonable steps to ensure safe release of marine mammals. Fishing operations of Japanese large and middle scale purse seine fishery for tuna are observed by the observer program of the WCPFC. The fishing products which come from fish caught by purse seine fishery vessels have been exported to United States of America by Japanese fabricators and distributors and these may be exported to United States of America in future.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Other sp (Sardines, Horse mackerel and Mackerels)	Large and middle scale Purse Seine Fishery	85	Not applicable	Not applicable	Western and central Pacific Ocean, Japan Sea, East China Sea and Yellow Sea	None documented	None documented	A/G	Gov't of Japan		Other purse seine fishery vessels do not catch marine mammals as by catch during their operation targeting Sardines, Horse mackerel and Mackerels.
scallop	aquaculture (lines, baskets)	947	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		The fishing products which come from fish caught by purse seine fishery vessels have been exported to United States of America by Japanese fabricators and distributors and these may be exported to United States of America in future.
scallop	aquaculture (lines, baskets)	1508	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Oysters	aquaculture (lines, baskets)	485	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Oysters	aquaculture (lines, baskets)	164	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Oysters	aquaculture (lines, baskets)	165	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Oysters	aquaculture (lines, baskets)	1150	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
clam/ark clam/conch/cockle	aquaculture (lines, baskets)	64	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
clam/ark clam/conch/cockle	aquaculture (lines, baskets)	18	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
clam/ark clam/conch/cockle	aquaculture (lines, baskets)	39	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
clam/ark clam/conch/cockle	aquaculture (lines, baskets)	21	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
shrimp	aquaculture (banking pond)	4	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
shrimp	aquaculture (banking pond)	1	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
sea squirt	aquaculture (lines)	39	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
sea squirt	aquaculture (lines)	1	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
sea urchin/other aquatic/other aquatic animals except fish and shelled mollusca	aquaculture (lines, baskets)	19	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
sea urchin/other aquatic/other aquatic animals except fish and shelled mollusca	aquaculture (lines, baskets)	3	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
sea urchin/other aquatic/other aquatic animals except fish and shelled mollusca	aquaculture (lines, baskets)	2	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
kelp	aquaculture (lines)	101	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
kelp	aquaculture (lines)	17	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
kelp	aquaculture (lines)	4	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seaweed	aquaculture (lines)	626	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seaweed	aquaculture (lines)	32	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seaweed	aquaculture (lines)	2692	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seaweed	aquaculture (lines)	1300	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
coho salmon	aquaculture (cages)	54	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
coho salmon	aquaculture (cages)	6	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
yellowtail/amberjack	aquaculture (cages)	673	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
yellowtail/amberjack	aquaculture (cages)	7	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
yellowtail/amberjack	aquaculture (cages)	996	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
yellowtail/amberjack	aquaculture (cages)	143	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seabream	aquaculture (cages)	877	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seabream	aquaculture (cages)	8	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seabream	aquaculture (cages)	276	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
seabream	aquaculture (cages)	58	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
halibut	aquaculture (cages)	15	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
halibut	aquaculture (cages)	1	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
halibut	aquaculture (cages)	20	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Pacific bluefin tuna	aquaculture (cages)	88	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Pacific bluefin tuna	aquaculture (cages)	1	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Pacific bluefin tuna	aquaculture (cages)	203	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
bass/Japanese pufferfish/White trevally/Japanese jack mackerel/Chub mackerel/grouper/Japanese rockfish/filefish/grunt/largescale blackfish/striped beakfish/other finfish	aquaculture (cages)	190	Not applicable	Not applicable	Pacific Ocean	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
bass/Japanese pufferfish/White trevally/Japanese jack mackerel/Chub mackerel/grouper/Japanese rockfish/filefish/grunt/largescale blackfish/striped beakfish/other finfish	aquaculture (cages)	36	Not applicable	Not applicable	Japan Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
bass/Japanese pufferfish/White trevally/Japanese jack mackerel/Chub mackerel/grouper/Japanese rockfish/filefish/grunt/largescale blackfish/striped beakfish/other finfish	aquaculture (cages)	316	Not applicable	Not applicable	Eastern China Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
bass/Japanese pufferfish/White trevally/Japanese jack mackerel/Chub mackerel/grouper/Japanese rockfish/filefish/grunt/largescale blackfish/striped beakfish/other finfish	aquaculture (cages)	73	Not applicable	Not applicable	Inland Sea	None documented	None documented	A/G	Gov't of Japan		year-round fishery; Licensed fisheries by prefectural governors
Toothfish	Longline	1	Not applicable	Not applicable	CCAMLR convention area SEAFO convention area SIOFA convention area	None documented	None documented	P, A/G	Gov't of Japan, CCAMLR reporting		
Export Fisheries											
tuna, skipjack, swordfish	longline	452	Not applicable	Not applicable	High seas, Western Central Pacific Convention Area, Eastern Tropical Pacific Ocean Inter-American Tropical Tuna Convention Area	WCPFC, IATTC unspecified mammals, killer whales, false killer whales, seals and a few dolphins.	3	A/G	WCPFC, IATTC	Bell et al 2006, Japan provided, https://www.iattc.org/Meetings/Meetings2016/SAC7/PDFiles/INF/SAC-07-INF-A(f)-Japan.pdf , http://www.iattc.org/Meetings/Meetings2015/6SAC/PDFs/SAC-06-INF-F-JPN-Report-Scientific-Observer.pdf	Note 50% of interactions involved injury to animals and 50% had an impact on the fisheries (lost catch)
tuna (bluefin, albacore, skipjack, bigeye, bonito, yellowfin) and swordfish	longline	452	Not applicable	Not applicable	Indian Ocean Indian Ocean Tuna Commission Convention Area	None provided	None provided	A/G	IOTC; minimize bycatch; depredation measures	IOTC; FAO Tech paper 588, CCSBT quarterly CDS report	
tuna (bluefin, albacore, skipjack, bigeye, bonito, yellowfin) and swordfish	longline	210 vessels including 207 large scale vessels	Not applicable	Not applicable	Atlantic Ocean International Convention Conservation of Atlantic Tuna Convention Area	None provided	None provided	A/G	ICCAT	U.S. Trade Data, ICCAT, Japan provided	
tuna bluefin	longline	452	Not applicable	Not applicable	Southern Bluefin Tuna Convention Area	None provided	None provided	A/G	CCSBT	U.S. Trade Data, CCSBT, Japan provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
chum salmon flounder, squid/cuttlefish, cod, pollock, trout	pound nets small-scale pound nets	1120	Not applicable	Not applicable	Hokkaido prefecture	harbor porpoise, dall's porpoise, minke whale, humpback whale, north pacific right whale, sea lion, seal, fur seal	37, 19, 36, 1, 1, 2, 224, 56	P, A/G		Gov't of Japan, IWC 2013-2016	2014-2016
		2831	Not applicable	Not applicable	Hokkaido prefecture	seal, fur seal	6, 15	P, A/G		Gov't of Japan	2014-2016
flounder, herring, cod, pollock, Pacific saury, salmon, trout	gillnet, drift net	9700	Not applicable	Not applicable	Hokkaido prefecture	harbor porpoise, Dall's porpoise, sea lion, seal, fur seal, humpback whale	19, 4, 6, 3, 5, 1	P, A/G		Gov't of Japan, IWC 2013-2016	2014-2016
flounder, cod, pollock	bottom trap nets	1075	Not applicable	Not applicable	Hokkaido prefecture	minke whale, sea lion, seal, fur seal	1, 218, 20, 28	P, A/G		Gov't of Japan	2014-2016
salmon, mackerel	pound nets	128	Not applicable	Not applicable	Iwate prefecture	fin whale, minke whale	2, 40	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	2014-2016
chum salmon	small scale pound nets	134	Not applicable	Not applicable	Miyagi prefecture	minke whale, humpback whale	44, 1	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	May 2014-Feb 2017
yellowtail, mackerel	pound nets	15	Not applicable	Not applicable	Shizuoka prefecture	minke whale, humpback whale, Risso's dolphin	6, 1, 2	P, A/G		Gov't of Japan	minke whale data (Dec 2014-Mar 2017), humpback whale (Dec 2015), Risso's dolphin (Mar 2016)
yellowtail	pound nets	1	Not applicable	Not applicable	Tokushima prefecture	minke whale	1	P, A/G		Gov't of Japan	2014-2016
yellowtail, squid/cuttlefish, dolphin fish, flying fish, largescale blackfish	pound nets	339	Not applicable	Not applicable	Nagasaki prefecture	minke whale, humpback whale	71, 1	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	Jan 2012-Dec 2014
horse mackerel, mackerel, yellowtail	pound nets	143	Not applicable	Not applicable	Oita prefecture	minke whale, humpback whale, fin whale	1, 3, 1	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	Jan 2016-Dec 2016
yellowtail, horse mackerel	pound nets	11	Not applicable	Not applicable	Miyazaki prefecture	Humpback whale, minke whale	1, 5	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	Jan 2015-Feb 2017
horse mackerel, sardine anchovy, mackerel, yellowtail	small scale pound nets	50	Not applicable	Not applicable	Kagoshima prefecture	common minke whale, humpback whale, unidentified large baleen whale	10, 2, 1	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	Jan 2014-Dec 2016
cod, pollock	longline	32	Not applicable	Not applicable	Iwate prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
greeneyes, monkfish	bottom trawl	15	Not applicable	Not applicable	Ibaraki prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
whitebait	trawl	269	Not applicable	Not applicable	Ibaraki prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
mackerel, sardine, anchovy, yellowtail	middle scale purse seine	28	Not applicable	Not applicable	Chiba prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
cod, pollock	longline	162	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
scallop	bottom trawl	345	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
shrimp, sea urchin	bottom trawl	276	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
chum salmon	longline	25	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
trout	longline	17	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
tunas, including albacore, bigeye, yellowfin, bluefin, skipjack, bonito, and swordfish	longline	137	Not applicable	Not applicable	Tokushima prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
daggertooth pike conger, lizard fish	bottom trawl	164	Not applicable	Not applicable	Miyazaki prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
sardine, round herring	middle scale purse seine	31	Not applicable	Not applicable	Miyazaki prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
sardine, round herring	small scale purse seine	29	Not applicable	Not applicable	Miyazaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
Japanese Spanish mackerel, barracuda	driftnet	192	Not applicable	Not applicable	Miyazaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
barracuda, hairtail	gillnet	155	Not applicable	Not applicable	Miyazaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
albacore tunas, yellowfin	longline	100	Not applicable	Not applicable	Miyazaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
seabream, grunt, largescale blackfish, bass	gillnet	410	Not applicable	Not applicable	Nagasaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
yellowtail	trawl	116	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
Splendid Alfonsino, Armorhead	Trawl, bottom	3	Not applicable	Not applicable	NPFC convention area	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
Splendid Alfonsino, Butterfish	Trawl, bottom	2	Not applicable	Not applicable	SIOFA convention area	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
Greenland halibut, Yellowtail flounder, Atlantic redfishes, Atlantic cod, Atlantic haibut, Witch flounder, American plaice	Trawl, bottom	1	Not applicable	Not applicable	NAFO convention area	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
Splendid Alfonsino, Armorhead, Oreo dory	Gillnet, bottom	1	Not applicable	Not applicable	NPFC convention area	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
horse mackerel, mackerel, sardine, anchovy	middle scale purse seine	23	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
shrimp, lizard fish, seabream, whitebait, halfbeak	bottom trawl	325	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
slender sprat, billfish, flying fish, etc.	driftnet	481	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
sea bream, horse mackerel, halibut	gillnet	320	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
horse mackerel, mackerel, yellowtail	purse seine	31	Not applicable	Not applicable	Oita prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
horse mackerel, mackerel, sardine, anchovy	purse seine	62	Not applicable	Not applicable	Nagasaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
flying fish	trawl	373	Not applicable	Not applicable	Nagasaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
tilefish, rosy seabass, grouper	longline	100	Not applicable	Not applicable	Nagasaki prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
bluefin tuna	trolling	90	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
rockfish	gillnet	854	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
sardine, anchovy, horse mackerel, mackerel	purse seine	63	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	
shrimp	bottom trawl	987	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
sardine, anchovy, lizard fish, halfbeak, horse mackerel, Japanese Spanish mackerel, frigate tuna	driftnet	365	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Japanese shad, halfbeak, Japanese whiting, horse mackerel, frigate tuna, crab, gray mullet, tilefish, founder, flathead	gillnet	829	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
dotted gizzard shad, yellowtail, grunt, Japanese black seabream, gray mullet	gillnet	129	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
seabream, daggertooth pike conger, conger eel, pufferfish	longline	437	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
yellowtail	purse seine, lift net	6	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
tilefish, seabream, Japanese pufferfish	longline	209	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Japanese whiting, seabream, filefish, lizard fish, Japanese black seabream, halfbeak, shrimp, squid/cuttlefish, sea cucumber	bottom trawl	814	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
horse mackerel, yellowtail, anchovy, dolphin fish	purse seine	10	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Japanese whiting, Japanese Spanish mackerel, Pacific saury, shrimp, bass, sole, butterflyfish, halfbeak, skates, rays	driftnet	437	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
yellowtail, gray mullet, bass, halfbeak, halibut, flounder, shrimp, crab, Edible jellyfish	gillnet	949	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
shrimp	gillnet	477	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Japanese black seabream, skates, rays, shrimp	longline	22	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
bottom fish	bottom trawl	47	Not applicable	Not applicable	Kyoto prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
tilefish	longline	36	Not applicable	Not applicable	Kyoto prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
yellowtail	gillnet	63	Not applicable	Not applicable	Kyoto prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
sardine, anchovy, Japanese Spanish mackerel, squid/cuttlefish, halfbeak, sand lance, shrimp, sea cucumber, worms, rockfish, clam	bottom trawl	1917	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
conger eel	longline	146	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Japanese Spanish mackerel, butterflyfish, horse mackerel, Japanese shad, halfbeak, Japanese whiting	driftnet	355	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
worms	trawl	1	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I	Gov't of Japan		Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.

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icefish, crab, sole, Japanese shad	gillnet	278	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
squid/cuttlefish, crab, yellowtail, horse mackerel, seabream	small scale pound nets	2683	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
seabream	small scale pound nets	47	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
horse mackerel, squid/cuttlefish	small scale pound nets	5	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
gray mullet	pound nets	1	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
yellowtail, mackerel	small scale pound nets	46	Not applicable	Not applicable	Shizuoka prefecture	common minke whale, humpback whale	21, 5	P, A/G		Gov't of Japan, IWC 2013, 2015-2016	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
flounder	small scale pound nets, bottom trap nets	88	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
pufferfish	fish pot	72	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
frog crab	fish pot	50	Not applicable	Not applicable	Kagoshima prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Red snow crab	Traps	12	Not applicable	Not applicable	Sea of Japan	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Deep sea red crab	Traps	1	Not applicable	Not applicable	SEAFO convention area Angola EEZ	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
shrimp, snow crab	fish pot	605	Not applicable	Not applicable	Hokkaido prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
octopus	fish pot	139	Not applicable	Not applicable	Nagasaki prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
filefish	fish pot	397	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
squid/cuttlefish, pufferfish, rockfish, conger eel, hagfish, crab	fish trap	142	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
octopus	fish pot	83	Not applicable	Not applicable	Fukuoka prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
octopus, ocellated octopus, gobies, eel, conger eel, squid/cuttlefish, crab	fish pot	453	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
Japanese Spanish mackerel, butterfish, horse mackerel, Japanese shad, halfbeak, Japanese whiting	trolling	175	Not applicable	Not applicable	Okayama prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
tunas, including albacore, bigeye, yellowfin, bluefin, skipjack, bonito, and swordfish	trolling	324	Not applicable	Not applicable	Tokushima prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.
sardine, anchovy, horse mackerel, mackerel, halfbeak, lanternbelly, seabream	trawl	821	Not applicable	Not applicable	Ehime prefecture	None documented	None documented	A/G, N/I		Gov't of Japan	Marine mammal interactions and bycatch estimates provided by the Gov't of Japan, but additional documentation that substantiates these interaction rates and estimates is required.

Kenya

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Exempt Fisheries											
octopus, snapper, shells, sea cucumber aquarium fish	hook sticks	2913	not applicable	not applicable	Indian Ocean inshore waters	none	none	A/G		U.S. Trade Data	
octopus, snapper, shells, sea cucumber aquarium fish	scoop nets	2913	not applicable	not applicable	Indian Ocean inshore waters	none	none	A/G		U.S. Trade Data	
Export Fisheries											
octopus, snapper, shells, sea cucumber aquarium fish	gillnet	2913	not applicable	not applicable	Indian Ocean inshore waters	none	none	A/G		U.S. Trade Data	

Kiribati

Exempt Fisheries											
corals, shell, cuttlebone	hand collection	none provided	Not applicable	Not applicable	Kiribati EEZ and Western Central Pacific Fishing Commission Convention Area	None provided	none provided	A/G		U.S. Trade Data	
Tuna, bigeye, yellowfin, skipjack	purse seine	21	Not applicable	Not applicable	Kiribati EEZ, Tuvalu, Marshalls, Cook Islands and Western Central Pacific Fishing Commission Convention Area	None documented	None documented	A/G	WCPFC	U.S. Trade Data	
Tuna, bigeye, yellowfin, skipjack	pole and line	1	Not applicable	Not applicable	Kiribati EEZ, Tuvalu, Marshalls, Cook Islands and Western Central Pacific Fishing Commission Convention Area	None documented	None documented	A/G		U.S. Trade Data	operated by the Spanish company, Intertun Ltd., but registered under Kiribati's flag.
Tuna, bigeye, yellowfin, skipjack	troll, handlining	4766	Not applicable	Not applicable	Kiribati EEZ and Western Central Pacific Fishing Commission Convention Area	None documented	None documented	A/G		U.S. Trade Data	Analogous fishery HI pelagic handline, Guam tuna troll both Category III
Export Fisheries											

marine fish, snapper	longline	16	Kiribati Fish Ltd, a joint venture with the Kiribati government, Shanghai Deep Sea Fishery and Golden Ocean Fish Ltd.	Not applicable	Kiribati EEZ and Western Central Pacific Fishing Commission Convention Area	None provided	none provided	N/I, A/G		http://kiribatifishltd.com/fishing/	
Tuna, bigeye, yellowfin, skipjack	longline	3	Not applicable	Not applicable	Eastern Tropical Pacific Inter-American Tropical Tuna Commission Convention Area	None provided	none provided	N/I, A/G		U.S. Trade Data	
Tuna, bigeye, yellowfin, skipjack	purse seine	1	Not applicable	Not applicable	Eastern Tropical Pacific Inter-American Tropical Tuna Commission Convention Area	None provided	none provided	N/I, A/G		U.S. Trade Data	Kiribati Fish Limited exports tuna landed in Kiribati to the United States
Tuna, bigeye, yellowfin, skipjack	longline	21	Not applicable	Not applicable	Kiribati EEZ, Tuvalu, Marshalls, Cook Islands and Western Central Pacific Fishing Commission Convention Area	None documented	None documented	A/G		U.S. Trade Data	
Export Fisheries with No Information											
Tuna, bigeye, yellowfin, skipjack	longline		Not applicable	Not applicable	South Pacific					U.S. Trade Data	
Tuna, bigeye, yellowfin, skipjack	longline		Not applicable	Not applicable	North Pacific					U.S. Trade Data	

Latvia

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
round goby, Atlantic cod, herring, European flounder, Vimba bream, brown trout, Atlantic salmon	gillnet	206 vessels in coastal mixed fishery	not applicable	not applicable	year-round; Baltic Sea (ICES IIIId)	gray seal	10	A/G, P		EU submitted spreadsheet	Number of mammal mortality is underestimated (gray seal). Number of vessels (boats) and participants approximates
round goby, Atlantic cod, herring, eelpout, European perch, brown trout, Atlantic salmon	trapnet	206 vessels in coastal mixed fishery	not applicable	not applicable	year-round; Baltic Sea (ICES IIIId)	gray seal	45	A/G, P		EU submitted spreadsheet	Number of mammal mortality is underestimated (gray seal). Number of vessels (boats) and participants approximates
European sprat	trawl	55	not applicable	not applicable	year-round; Baltic Sea (ICES IIIId)	harbor porpoise present in area	none documented	A/G, C/O		EU submitted spreadsheet	Presence of mammals (Phocoena Phocoena) is monitored. Number of vessels and participants approximates
herring	trawl	55	not applicable	not applicable	mid-June to mid-May; Baltic Sea (ICES IIIId)	harbor porpoise present in area	none documented	A/G, C/O		EU submitted spreadsheet	Presence of mammals (Phocoena phocoena) is monitored. Number of vessels and participants approximates
Atlantic cod	trawl	55	not applicable	not applicable	year-round; Baltic Sea (ICES IIIId)	marine mammals present in area, species not identified	none provided	A/G, N/I		EU submitted spreadsheet	No information. Number of vessels and participants approximates
European flounder	trawl	55	not applicable	not applicable	year-round; Baltic Sea (ICES IIIId)	marine mammals present in area, species not identified	none provided	A/G, N/I		EU submitted spreadsheet	No information. Number of vessels and participants approximates
Atlantic cod	gillnet	4	not applicable	not applicable	year-round; Baltic Sea (ICES IIIId)	harbor porpoise present in area, possible interaction	none provided	A/G, C/O		EU submitted spreadsheet, and worldwide bycatch of cetaceans/appendix	Presence of mammals (Phocoena phocoena) is monitored. Number of vessels and participants approximates
snow crab	crab pots	11	not applicable	not applicable	year-round; Barents Sea and Greenland Sea (ICES I, IIb)	none provided	none provided	A/G		EU submitted spreadsheet	Number of vessels and participants may vary significantly

Liberia

Exempt Fisheries											
fish, croakers, Caranz, Groupers	hook and line	270	not applicable	not applicable	West Central Gulf and Guinea Region	none provided	none provided	A/G		http://www.moci.gov.lr/doc/Liberia%20Fish_Crustaceans_web-FINAL_1.pdf	
barracuda, pike fish, snapper	hook and line	3150	not applicable	not applicable	West Central Gulf and Guinea Region	none provided	none provided	A/G		http://www.moci.gov.lr/doc/Liberia%20Fish_Crustaceans_web-FINAL_1.pdf	
Export Fisheries											
crustaceans, lobsters, crab	trap	3150	not applicable	not applicable	West Central Gulf and Guinea Region	none provided	none provided	A/G		https://www.export.gov/article?id=Liberia-Agricultural-Sectors	
herring, flying fish	ringnet	270	not applicable	not applicable	West Central Gulf and Guinea Region	none provided	none provided	N/I		U.S. Trade Data	
Penaeid, snappers	trawl	40	not applicable	not applicable	West Central Gulf and Guinea Region	none provided	none provided	N/I		U.S. Trade Data	The majority of the licensed fishing vessels that until recently actively operated in Liberia are of far eastern origins, and originated from China, Japan and the Republic of Korea. While detailed information is scarce, it is estimated that the Liberian operations of these trawling companies were limited to landing catch, freezing and trans-shipping to other ships at sea.
tuna yellowfin, bigeye, sailfish	gillnet, set	270	not applicable	not applicable	West Central Gulf and Guinea Region	none provided	none provided	A/G		U.S. Trade Data	
Tuna and Tuna-like species	purse seine	28 E.U. purse seiners	not applicable	not applicable	West Africa	none provided	none provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/liberia	
Tuna and Tuna-like species	longline, surface	6 E.U. Surface longliners	not applicable	not applicable	West Africa	none provided	none provided	A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/liberia	

Libya

Export Fisheries											
bluefin tuna	purse seine	14	not applicable	not applicable	EEZ and International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G	ICCAT	U.S. Trade Data, https://www.iccat.int/intermeetings/PA2/2015/ENG/PA2-002_LIBYA_ENG.pdf	observer program
bluefin tuna	longline	1	not applicable	not applicable	EEZ and International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	N/I, A/G	ICCAT	U.S. Trade Data, https://www.iccat.int/intermeetings/PA2/2015/ENG/PA2-002_LIBYA_ENG.pdf	2015 last active

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Export Fisheries											
snow crab	cages	3	not applicable	not applicable	year-round; Barents Sea (NEAFC 27.1.a)	Baikal seal, Cetaceans	None documented	A/G, C/O		EU submitted spreadsheet	
redfish	Trawl	1	not applicable	not applicable	summer; Barents Sea, Northeast Atlantic, and Greenland Sea (IIa; XII; XIV)	Cetaceans	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet	Fisheries employing scientific observer coverage
jack mackerel	Trawl	1	not applicable	not applicable	year-round; Southeast Pacific (FAO 87)	Cetaceans	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet	Fisheries employing scientific observer coverage
northern shrimp	trawl, bottom	2	not applicable	not applicable	year-round; Barents Sea, Norwegian Sea (27 Ia, II2, Ib)	white-beaked dolphin, baleen whales, harp seal	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet	The fishery is carried out near the bottom in very deep water (from 300m to 500 m.), therefore there is virtually no chance that birds or marine mammals are encountered when the net is at the fishing depth. The only possible moment of encounter would be when the net is hauled in and birds or marine mammals would be attracted by the fish in the net. This however seems unlikely in a shrimp fishery with very limited bycatch.
Atlantic herring, Atlantic sprat	trawl, pelagic pair	3	not applicable	not applicable	year-round; Baltic Sea (FAO Zone 27.3)	Harbor porpoise	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet	Lithuanian vessels is operating on the edge of species distribution area in the Baltic
Atlantic herring, Atlantic sprat	trawl, pelagic midwater otter	23	not applicable	not applicable	year-round; Baltic Sea (FAO Zone 27.3)	Harbor porpoise	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet	Lithuanian vessels is operating on the edge of species distribution area in the Baltic
Atlantic cod	gillnet	64	not applicable	not applicable	year-round; Baltic Sea (FAO Zone 27.3)	gray seal, possible harbor porpoise interactions	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet, and worldwide bycatch of cetaceans/appendix	
Atlantic cod	trawl, bottom otter	20	not applicable	not applicable	year-round; Baltic Sea (FAO Zone 27.3)	Harbor porpoise, gray seal	None documented	A/G, C/O	ASCOBANS	EU submitted spreadsheet	The fishery is carried out near the bottom, therefore there is no chance for the bycatch of gray seal. Lithuanian vessels is operating on the edge of harbor porpoise distribution area in the Baltic.

Madagascar

Exempt Fisheries											
seaweed	aquaculture	not applicable	IBIS Algoculture, Aromes Algues, Natur'Alg, SOVALG	none provided	northeast region of Madagascar	none provided	none provided	A/G		U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en	
seaweed	hand collection	none provided	none provided	none provided	none provided	none provided	none provided	A/G		U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en	
corals, shell, cuttlebone	hand collection	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en	
shrimp	aquaculture	not applicable	LGA, AQUALMA, MARIMA	none provided	Western Indian Ocean	none provided	none provided	A/G, N/I		U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en	
Export Fisheries											
shrimp	trawl	41	not applicable	not applicable	central, northwest, east coast of Madagascar	none provided	none provided	A/G, N/I		U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en	required to use TEDS and BRDs
tuna (yellowfin, skipjack, marlins, sharks)	longline	117	not applicable	not applicable	Indian Ocean Tuna Commission Convention Area	Dugong, small & large cetaceans	none provided	A/G, N/I	IOTC	U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en , IOTC-2016-SC19-NR15_Rev_1_Madagascar.pdf	observer program in EEZ waters
tuna (yellowfin, skipjack, marlins, sharks)	purse seine	46	not applicable	not applicable	Indian Ocean Tuna Commission Convention Area	Dugong, small & large cetaceans	none provided	A/G, N/I	IOTC	U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en , IOTC-2016-SC19-NR15_Rev_1_Madagascar.pdf	observer program in EEZ waters
tuna (yellowfin, skipjack, marlins, sharks)	supply vessel	20	not applicable	not applicable	Indian Ocean Tuna Commission Convention Area	Dugong, small & large cetaceans	none provided	A/G, N/I	IOTC	U.S. Trade Data, http://www.fao.org/fishery/facp/MDG/en , IOTC-2016-SC19-NR15_Rev_1_Madagascar.pdf	observer program in EEZ waters

Malaysia

Exempt Fisheries											
coral, shells	aquaculture	not applicable	none provided	not applicable	none provided	none provided	none provided			2015-2016 U.S. trade database; Malaysia provided spreadsheet	
crab	trap	none provided	Not applicable	Not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
crab	aquaculture	not applicable	none provided	none provided	Peninsular and East Malaysia	none provided	none provided			2015-2016 U.S. trade database; Malaysia provided spreadsheet	
cuttlefish	hook and line	none provided	not applicable	Not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
mackerel	hook and lines	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
marine fish NSPF	hook and lines	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
oysters	aquaculture	not applicable	none provided	none provided	Peninsular and East Malaysia	none provided	none provided			2015-2016 U.S. trade database; Malaysia provided spreadsheet	
sardine	hook and lines	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
shrimp warm- water	aquaculture	not applicable	none provided	none provided	Peninsular and East Malaysia	none provided	none provided			2015-2016 U.S. trade database; Malaysia provided spreadsheet	
squid	jig	none provided	not applicable	not applicable	Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
tuna	hook and lines	none provided	not applicable	not applicable	Malacca Straits	none provided	none provided	N/I,A/G		IOTC national report	
Export Fisheries											
anchovy, sardine	purse seine	2952	not applicable	not applicable	coastal Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
cuttlefish	purse seine	900	not applicable	Not applicable	Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
crab	trawl	none provided	Not applicable	Not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
cuttlefish	trawl	none provided	not applicable	Not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
dolphinfish	longline	none provided	none provided	none provided	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
dolphinfish	purse seine	none provided	none provided	none provided	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
jellyfish	trawl	none provided	not applicable	not applicable	west coast of Peninsular Malaysia.	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
mackerel	trawl	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet; IOTC	recorded in IOTC 2015
mackerel	troll	none provided	not applicable	not applicable	Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet; IOTC	recorded in IOTC 2015
mackerel	purse seine	900	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		http://www.worldfishing.net/news101/regional-focus/malaysia	
mackerel	driftnet	none provided	not applicable	not applicable	Peninsular and East Malaysia	dugongs and dolphins	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet; CMS 2015; Teh 2015; Jaaman 2009: Komoroske & Lewison	
mackerel	longline	none provided	not applicable	not applicable	Malacca Straits	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; IOTC National Report	
marine fish NSPF	trawl	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
marine fish NSPF	purse seine	900	not applicable	not applicable	Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
marine fish NSPF	drift net	none provided	not applicable	not applicable	Peninsular and East Malaysia	dugongs and dolphins	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet; CMS 2015; Teh 2015; Jaaman 2009: Komoroske & Lewison	
octopus	trawl	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
sardine	trawl	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
sardine	driftnet	none provided	not applicable	not applicable	Peninsular and East Malaysia	dugongs and dolphins	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
shrimp	trawl	not applicable	none provided	none provided	west coast of Peninsular Malaysia.	none provided	none provided	A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
squid	trawl	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
squid	purse seine	none provided	not applicable	not applicable	Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	
tuna (albacore, yellowfin, swordfish)	longline	5-15	not applicable	not applicable	Indian Ocean Tuna Commission Convention Area	none provided	none provided	N/I,A/G		IOTC national report; http://www.iotc.org/vessels/current	15 IOTC flagged vessels according to IOTC website, but country report lists 5.
tuna	gillnet	none provided	not applicable	not applicable	Malacca Straits	dugongs and dolphins	none provided	N/I,A/G		IOTC national report, CMS 2015; Teh 2015; Jaaman 2009: Komoroske & Lewison	Large scale tuna fishing efforts seem to be limited to longlining; alternate gears seem to be artisanal. These appear to primarily be Artisanal, but unclear. Nothing is noted in recent years under IOTC other than artisanal.
tuna	purse seine (large scale)	0*	not applicable	not applicable	Eastern Indian Ocean, Indian Ocean Tuna Commission Convention Area	none provided	none provided	N/I,A/G		IOTC national report; http://www.iotc.org/vessels/current	*No purse seine vessels are listed under IOTC website since 2009 - Purse Seine may not be active currently
tuna	purse seine (Artisanal)	none provided	not applicable	not applicable	Malacca Straits	none provided	none provided	N/I,A/G		IOTC national report	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna	trawl	none provided	not applicable	not applicable	Malacca Straits	none provided	none provided	N/I,A/G		IOTC national report	These appear to primarily be Artisanal, but unclear. Nothing is noted in recent years under IOTC other than artisanal.
tuna	troll	0*	not applicable	not applicable	Eastern Indian Ocean, Indian Ocean Tuna Commission Convention Area	none provided	none provided	N/I,A/G		IOTC national report; http://www.iotc.org/vessels/current	These appear to primarily be Artisanal, but unclear. Nothing is noted in recent years under IOTC other than artisanal.
Export Fisheries with No Information											
groundfish	none provided	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	Malaysia reported as product unknown
lobster	none provided	none provided	not applicable	not applicable	Peninsular and East Malaysia	none provided	none provided	N/I,A/G		2015-2016 U.S. trade database; Malaysia provided spreadsheet	Malaysia reported as product unknown
Maldives Islands											
Exempt Fisheries											
Snapper, grouper, jacks	Handline	none provided	not applicable	not applicable	atolls and EEZ of Maldives	none provided	none provided	A/G		U.S. Trade Data, Background Report for the Maldives	
Tuna, yellowfin, bigeye, albacore, dogtooth tuna, little tuna, frigate tuna, swordfish	handline, pole and line	796	Maldives Industrial Fishing Company	not applicable	Indian Ocean, Indian Ocean Tuna Commission Convention Area and Maldives EEZ, North and South Thiladhunmathi, Miladhunmadulu, Maalhosmadulu, Faadhippolhu, Male Atoll, North and South Ari Atoll, Feldihu Atoll, Mulaku Atoll, North and South Nilandhe, Kolhumadulu, Hadhdhunmathi, North and South Huvandhu, Fuvahmulah, Addu	none documented	none documented	A/G	IOTC	U.S. Trade Data, IOTC-2016-SC19-NR17_Rev_1-Maldives.pdf http://www.fishagri.gov.mv/images/publications/fisheries/2015/basic%20fisheries%20stat%20book%202013.pdf ; http://sopac.iotc.org/sites/default/files/documents/2014/10/IOTC-2014-WPEB10-31_-_Cetaceans_and_tuna_fisheries.pdf	Fish are targeted in dolphin associated schools (Pantropical Spotted, Spinner) but no marine mammal interactions reported. Again, no marine mammal interactions reported but baleen whales present. More research needed in area. logbook reporting, no observer program
Export Fisheries											
Snapper, grouper, jacks	longline	none provided	not applicable	not applicable	atolls and EEZ of Maldives	none provided	none provided	A/G		U.S. Trade Data, Background Report for the Maldives	
Tuna, yellowfin, bigeye, albacore, dogtooth tuna, little tuna, frigate tuna, swordfish	longline	70	Maldives Industrial Fishing Company	not applicable	Indian Ocean, Indian Ocean Tuna Commission Convention Area and Maldives EEZ, North and South Thiladhunmathi, Miladhunmadulu, Maalhosmadulu, Faadhippolhu, Male Atoll, North and South Ari Atoll, Feldihu Atoll, Mulaku Atoll, North and South Nilandhe, Kolhumadulu, Hadhdhunmathi, Nor	none documented	none documented	A/G	IOTC	U.S. Trade Data, IOTC-2016-SC19-NR17_Rev_1-Maldives.pdf, http://www.fishagri.gov.mv/images/publications/fisheries/2015/basic%20fisheries%20stat%20book%202013.pdf ; http://sopac.iotc.org/sites/default/files/documents/2014/10/IOTC-2014-WPEB10-31_-_Cetaceans_and_tuna_fisheries.pdf	logbook reporting, no observer program
Export Fisheries with No Information											
groundfish	none provided	none provided	none provided	none provided	atolls and EEZ of Maldives	none provided	none provided	N/I		U.S. Trade Data	
mackerel, jack, horse, scad, rainbow runner	none provided	none provided	none provided	none provided	atolls and EEZ of Maldives	none provided	none provided	N/I		U.S. Trade Data, http://www.fao.org/fi/oldsite/FCP/en/MDV/profile.htm	
molluscs	none provided	none provided	none provided	none provided	atolls and EEZ of Maldives	none provided	none provided	N/I		U.S. Trade Data	
marine fish	none provided	none provided	none provided	none provided	atolls and EEZ of Maldives	none provided	none provided	N/I		U.S. Trade Data	
seaweed	none provided	none provided	none provided	none provided	atolls and EEZ of Maldives	none provided	none provided	N/I		U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Malta											
Exempt Fisheries											
Bluefin tuna	Aquaculture, with fish sourced from other nations' Purse Seine vessels	not applicable	5 farms	Not applicable	year-round; Mediterranean Sea (FAO Zones 37)	no information	no information			EU submitted spreadsheet	For farmed BFT, the information provided through this table is related to the effect of the Maltese BFT Farming Sector on Marine Mammals. BFT Farmed in Malta is sourced from the wild through Purse Seine catches of other countries. Any effect on marine mammals through these purse seining operations should come from the relevant catching flag states.
Export Fisheries											
Bluefin tuna, albacore, bullet tuna, bonito, mahi mahi, little tunny	longline	40	not applicable	not applicable	Jun-Dec; Mediterranean Sea and Atlantic regions (FAO Zones 37)	possible false-filler whale, Risso's dolphin interactions	none provided	A/G, C/O		https://www.iccat.int/Documents/BienRep/REP_EN_14-15_I-2.pdf ; and EU submitted spreadsheet, and worldwide cetacean bycatch/appendices	For the BFT longline fleet, the number of vessels is the number of units with positive BFT effort for the past five years (value provided is the average based on a 5 year period dataset). Data Source for number of vessels with positive BFT effort is ICCAT catch and effort data. Data source on any relevant marine mammal incidental injury and mortality during longline operations comes from on-board observers deployed in line with ICCAT Recommendations.
Marshall Islands											
Exempt Fisheries											
clam	aquaculture	not applicable	not applicable	not applicable	Ailuk, Aur, Jaluit, Likiep, Maloelap, Ujae, Wotje, Arno, Wau Island, Majuro	none provided	none provided	N/I, A/G		http://www.fao.org/fishery/facp/MHL/en ; http://www.fao.org/fishery/facp/MHL/en#CountrySector-AddInfo	
coral	diving	none provided	none provided	none provided	Majuro lagoon, and outer reef	none provided	none provided	N/I, A/G		U.S Trade Data; http://www.fao.org/oldsite/FCP/en/MHL/profile.htm	
groundfish, marine fish (deep slope fishing)	castnet spearfishing, handline	56	none provided	none provided	Arno and Majuro	none provided	none provided	N/I, A/G		http://www.mimra.com/index.php/2013-12-30-04-14-13/2013-12-30-06-44-12	
grouper, snapper	handline	none provided	none provided	none provided	Arno and Majuro	none provided	none provided	N/I, A/G		U.S. Trade Data	
Sea cucumber	hand picking by free-diving, or wading (reef walking) during daylight hours	The fisheries may possibly be closed.			Majuro Atoll			N/I, A/G		https://spccfpstore1.blob.core.windows.net/digitallibrary-docs/files/54/5437f400d885f3fa459df95083cf991f.pdf?sv=2015-12-11&sr=b&sig=dgYQJaOkqmuoNcMW5A0xuxrNwIGHbOEs9ZarOxX56uU%3D&se=2017-12-13T12%3A47%3A16Z&sp=&rscc=public%2C%20max-age%3D864000%2C%20max-stale%3D864000&rsct=application%2Fpdf&rscd=inline%3B%20filename%3D%22FishNews134x_04_SeaCucumberMajuro.pdf%22 ; https://spccfpstore1.blob.core.windows.net/digitallibrary-docs/files/40/40607efd22d474a7ee3e4abd3049c754.pdf?sv=2015-12-11&sr=b&sig=fpKQgtJWNgNg%2FmZpuANEbcp5Bhb47Zsc6EjVK3ZJn8E%3D&se=2017-12-13T12%3A52%3A11Z&sp=&rscc=public%2C%20max-age%3D864000%2C%20max-stale%3D864000&rsct=application%2Fpdf&rscd=inline%3B%20filename%3D%22Anon_14_RMI_Sea_Cucumber_Plan.pdf%22 , http://micourts.org/wp-content/uploads/Sea-Cucumber-Regulations-of-2012.pdf , http://www.mimra.com/index.php/2013-12-30-04-15-59/2013-12-30-06-50-35	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, yellowfin, bigeye, skipjack, albacore, dolphinfish, swordfish	pole and line, trolling (small-scale)	13	The Marshall Islands Fishing Venture (MIFV)	not applicable	none provided	none provided	none provided	A/G	party to CPFLDSP, ban on large-scale pelagic driftnet fishing	http://www.fao.org/oldsite/FCP/en/MHL/profile.htm, http://www.fao.org/fishery/facp/MHL/en, http://www.fis.com/fis/worldnews/search_brief.asp?e&id=43506&ndb=1&monthyear=&day=&country=133&df=1, file:///C:/Users/quinn.downs/Downloads/SC11_AR_CC M_13_Republic_of_the_Marshall_Islands_AR_Part_1.pdf	
Export Fisheries											
groundfish, marine fish (deep slope fishing)	troll	56	none provided	none provided	Arno and Majuro	none provided	none provided	N/I, A/G		U.S. Trade Data; http://www.mimra.com/index.php/2013-12-30-04-14-13/2013-12-30-06-44-12	
groundfish, marine fish (deep slope fishing)	gillnet	56	none provided	none provided	Arno and Majuro	none provided	none provided	N/I, A/G		U.S. Trade Data; http://www.mimra.com/index.php/2013-12-30-04-14-13/2013-12-30-06-44-12	
grouper, snapper	longline, troll	none provided	none provided	none provided	Arno and Majuro EEZ and Western Central Pacific, Western Central Pacific Fisheries Commission convention area	none provided	none provided	N/I, A/G		U.S. Trade Data	
tuna, yellowfin, bigeye, skipjack, albacore, dolphinfish, swordfish	longline	50	not applicable	not applicable	EEZ and Western Central Pacific, Western Central Pacific Fisheries Commission convention area	False killer whale, spinner dolphin, rough-toothed dolphin, melon-headed whale, Risso's dolphin, bottlenose dolphin	14 (unk), 17 (dead), 4 (unk), 1 (alive), 2 (alive)	A/G		U.S. Trade Data	
tuna, yellowfin, bigeye, skipjack, albacore, dolphinfish, swordfish, shark	purse seine	162 Foreign vessels, 12 from the Marshall Islands	Pan Pacific Foods RMI (PPF), MIMRA, Koo's Fishing Company, Ltd (KFC)	not applicable	EEZ and Western Central Pacific, Western Central Pacific Fisheries Commission convention area	False killer whale, spinner dolphin, rough-toothed dolphin, melon-headed whale, Risso's dolphin, bottlenose dolphin	14 (unk), 17 (dead), 4 (unk), 1 (alive), 2 (alive)	P, A/G		U.S. Trade Data, https://www.wcpfc.int/system/files/AR-CCM-13%20MARSHALL%20ISLANDS%20PART%201.pdf, https://www.wcpfc.int/system/files/AR-CCM-13%20Republic%20of%20the%20Marshall%20Islands%20AR%20Part%201.pdf, Source Doc MM bycatch 2011-2016	
Export Fisheries with No Information											
snail	none provided	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I		http://www.fao.org/fishery/facp/MHL/en	
oyster, molluscs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Mauritania											
Exempt Fisheries											
octopus	jig	Max 6 E.U.	none provided	none provided	none provided	none provided	none provided	A/G		http://firms.fao.org/firms/resource/10132/en	
sea cucumbers, abalone	diving	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
tuna	pole and line	Max 15 E.U. pole-and-line and surface long-liners	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data, http://www.iccat.int/Documents/BienRep/REP_TRILING_UAL_14-15_II_3.pdf	all tuna fishing in national waters is by foreign flagged vessels, including EU, is Mauritania processing this tuna for export to the U.S.?
Export Fisheries											
cuttlefish, squid (Cephalopods)	authorized by catch from black hake trawling	Max 6 E.U. non-freezer trawlers	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en, http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1497623388012&uri=CELEX:32017D0451	
squid	closed for commercial fishing except with E.U. agreement	not applicable	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://www.giz.de/en/worldwide/17009.html	
crustacean (spiny lobster, and crab)	pot, trap	Max 25 E.U. vessels	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en	
Demersal marine fish other than hake (flatfish, sole, turbot)	trawl, artisanal fishing	Max 19 E.U. freezer trawlers, Max 2 E.U. non-freezer trawlers	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://www.euractiv.com/section/agriculture-food/news/mauritania-fisheries-deal-receives-mixed-response/, https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en	>7,000 vessels operating

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
groundfish (Pelagic)	trawl, artisanal fishing	Max 19 E.U. freezer trawlers. Max 2 E.U. non-freezer trawlers	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en	>7,000 vessels operating
mackerel (Pelagic), seabream	trawl, artisanal fishing	Max 6 E.U.	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en	Part of EU partnership agreement
pelagic fishes, sardines, anchovy, shad	purse seine	900	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		http://www.spcsrp.org/en/mauritania	Foreign vessels legally operating in Mauritanian coastal waters are primarily composed of purse seine fishing units (a unit comprises two boats) targeting small pelagic species. There were about 450 purse seine fishing units including 150 units operating with licenses granted within the framework of the fishing agreement with Senegal and over 300 units under the charter regime in 2014.
Sardinella, sardine, horse mackerel	trawl, pelagic	40-70	Not applicable	not applicable	Mauritania EEZ	common dolphins, bottlenose dolphins, Tursiops, and white-sided dolphins	none provided	N/I, A/G, C/O		Zeeberg et al 2006; Baker et al 2014	DWF of Dutch, Irish, Russian, Lithuanian, Icelandic pelagic fleet
Black hake	longline, bottom	Max 6 E.U. non-freezer longliners	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en	
Black hake	trawl, bottom	Max 6 E.U. non-freezer trawlers	Not applicable	not applicable	Atlantic Ocean EEZ	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/mauritania_en	
Export Fisheries with No Information											
octopus	pots	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data, http://www.spcsrp.org/en/mauritania , http://firms.fao.org/firms/resource/10132/en	
octopus	trawl, bottom	none provided	none provided	none provided	none provided	none provided	none provided	N/I		http://firms.fao.org/firms/resource/10132/en	
molluscs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
tuna	purse seine	Max 25 E.U. purse seiner	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data, http://www.iccat.int/Documents/BienRep/REP_TRILING_UAL_14-15_IL_3.pdf	all tuna fishing in national waters is by foreign flagged vessels, including EU, is Mauritania processing this tuna for export to the U.S.?
tuna	longline	Max 15 E.U. pole-and-line and surface long-liners	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data, http://www.iccat.int/Documents/BienRep/REP_TRILING_UAL_14-15_IL_3.pdf	all tuna fishing in national waters is by foreign flagged vessels, including EU, is Mauritania processing this tuna for export to the U.S.?
shrimp	trawl	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	Part of EU partnership agreement
Mauritius											
Exempt Fisheries											
demersal fishing, flatfish, sole, turbot	hook and line, harpoon	none provided	Mauritius EEZ	Mauritius EEZ	Mauritius EEZ	none provided	none provided	N/I, A/G		U.S. Trade Data	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef
flatfish, sole, turbot (demersal species)	basket traps	none provided, none documented	Mauritius EEZ	Mauritius EEZ	Mauritius EEZ	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/MUS/profile.htm , https://ec.europa.eu/fisheries/cfp/international/agreements/mauritius_en	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef
pelagic fish, seabass, snapper	hook and line, harpoon	none provided	Mauritius EEZ	Mauritius EEZ	Mauritius EEZ	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/MUS/profile.htm , https://ec.europa.eu/fisheries/cfp/international/agreements/mauritius_en	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef
pelagic fish, seabass, snapper	basket traps	none provided, none documented	Mauritius EEZ	Mauritius EEZ	Mauritius EEZ	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/MUS/profile.htm , https://ec.europa.eu/fisheries/cfp/international/agreements/mauritius_en	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (albacore, skipjack, yellowfin, bigeye, mackerel, dolphinfish, marlin, swordfish)	purse seine	7 - 43	The Thone de Mascareignes, a joint Mauritian Spanish venture canning factory	not applicable	Indian Ocean, Indian Ocean Tuna Commission Convention Area, predominantly just outside the EEZ, between latitudes 01°N-14°S and longitudes 49°E-69°E	none documented	none documented	N/I	IOTC, all local and foreign fishing vessels licensed to fish for tuna and associated species in the Mauritius EEZ are bound by the licence conditions to abide by the Indian Ocean Tuna Commission (IOTC) conservation and Managements measures regarding marine mammals and specifically on Resolutions 13/04 and 15/02.	IOTC-2015-SC18-NR18_-_Mauritius.pdf, Kiszka et al 2008	The Fisheries and Marine Resources Act 2007 provides that: no person shall land or cause to land, sell or have in his possession in Mauritius or in the maritime zones any marine mammal, mandatory logbook reporting, VMS, observer program in effect 2015
Export Fisheries											
flatfish, sole, turbot (demersal species)	gillnet	none provided, none documented	Mauritius EEZ	Mauritius EEZ	Mauritius EEZ	none provided	none provided	N/I, A/G		http://www.fao.org/oldsite/FCP/en/MUS/profile.htm https://ec.europa.eu/fisheries/cfp/international/agreements/mauritius_en	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef
pelagic fish, seabass, snapper	gillnet	none provided, none documented	Mauritius EEZ	Mauritius EEZ	Mauritius EEZ	none provided	none provided	N/I, A/G		http://www.fao.org/oldsite/FCP/en/MUS/profile.htm , https://ec.europa.eu/fisheries/cfp/international/agreements/mauritius_en	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef
swordfish, tuna (albacore, yellowfin, bigeye, billfishes, short-fin mako shark)	longline, surface	3 - 183	not applicable	not applicable	Indian Ocean, Indian Ocean Tuna Commission Convention Area, within the EEZ, between latitudes 15°S-20°S and longitudes 55°E-61°E	none documented	none documented	N/I	IOTC, all local and foreign fishing vessels licensed to fish for tuna and associated species in the Mauritius EEZ are bound by the licence conditions to abide by the Indian Ocean Tuna Commission (IOTC) conservation and Managements measures regarding marine mammals and specifically on Resolutions 13/04 and 15/02.	IOTC-2015-SC18-NR18_-_Mauritius.pdf, Kiszka et al 2008	The Fisheries and Marine Resources Act 2007 provides that: no person shall land or cause to land, sell or have in his possession in Mauritius or in the maritime zones any marine mammal, mandatory logbook reporting, VMS, observer program in effect 2015
swordfish, tuna (albacore, yellowfin, bigeye, billfishes, short-fin mako shark)	longline, vertical	350	not applicable	not applicable	Indian Ocean, Indian Ocean Tuna Commission Convention Area, within the EEZ, between latitudes 15°S-20°S and longitudes 55°E-61°E	none documented	none documented	N/I	IOTC	IOTC-2015-SC18-NR18_-_Mauritius.pdf, Kiszka et al 2008	In these fisheries there are chances of encounters with marine mammals. At present there are around 350 artisanal fishers that fish for pelagic species on Fish Aggregating Devices (FADs) placed around the island of Mauritius. The Fisheries and Marine Resources Act 2007 provides that: no person shall land or cause to land, sell or have in his possession in Mauritius or in the maritime zones any marine mammal, mandatory logbook reporting, VMS, observer program in effect 2015
Export Fisheries with No Information											
marine fish, emperor fish	gillnet	2256 dories boat, 8 mother vessels (frozen on board or storing)	not applicable	not applicable	Mauritius EEZ	none provided	none provided	N/I		U.S. Trade Data	around Fish Aggregating Devices (FADs) - 5 to 10 n.mi, outside the fringing reef
orange roughy	none provided	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I		U.S. Trade Data	
rock lobster	none provided	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I		U.S. Trade Data	

Mexico

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
yellowfin (skipjack, bluefin, albacore, bigeye, black skipjack)	pole and line	15	not applicable	not applicable	Inter-American Tropical Tuna Commission convention area	no information	none documented	IATTC	Mexico provided Annex 15 and letter; IATTC; tuna spreadsheet; 2015-2016 trade import data	selective fishing method	** Mexico maintains that it's yellowfin tuna purse seine fishery is highly selective since it is regulated by the AIDCP. They also maintain that this is the only fishery where marine mammal interaction occurs. **
corvina	handline	none provided	not applicable	not applicable	northern Gulf of California	vaquita, common dolphin, humpback whale, California sea lions	none documented	PACE		http://www.iucn-csg.org/index.php/vaquita/ ; http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofCalifornia_Guide.pdf	Although no formal bycatch estimate was available for many years following the scientific description of the vaquita in 1958, interviews with fishermen and observed carcasses indicated that incidental mortality in gillnets was high. From the 1980s onwards, it became clear that vaquitas were dying in most, if not all, types of gillnets used in the northern Gulf. The deaths of at least 128 vaquitas in fishing gear were documented between early March 1985 and early February 1992. Numbers have continued their downward trend of recent years, from 567 in 1997 to 245 in 2008 to about 60 in 2015. The fishing gear that is authorized is gillnet to purse seine or confinement
octopus	diving	1188 small vessels/12 large vessels	not applicable	not applicable	Gulf of California: Mexican EEZ	no information	no information			http://www.fao.org/oldsite/FCP/en/mex/body.htm ; http://www.fao.org/oldsite/FCP/en/mex/profile.htm ; http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofCalifornia_Guide.pdf ; 2015-2016 import trade data	highly selective gear
octopus	gaffs	1188 small vessels/12 large vessels	not applicable	not applicable	Gulf of California: Mexican EEZ	no information	no information			http://www.fao.org/oldsite/FCP/en/mex/body.htm ; http://www.fao.org/oldsite/FCP/en/mex/profile.htm ; http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofCalifornia_Guide.pdf ; 2015-2016 import trade data	highly selective gear
octopus	baited pole	364 large vessels/5,154 small vessels	not applicable	not applicable	Gulf of Mexico: Mexican EEZ	no information	no information			Young and Iudicello 2007; http://www.fao.org/oldsite/FCP/en/mex/body.htm ; http://www.fao.org/oldsite/FCP/en/mex/profile.htm ; 2015-2016 import trade data	highly selective gear
lobster	traps	42 mother vessels/963 small vessels	not applicable	not applicable	Gulf of Mexico: Mexican EEZ	bottlenose dolphin	no information			http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofCalifornia_Guide.pdf ; 2015-2016 import trade data	selective fishing method, analogous fishery = Gulf of Mexico blue crab trap/pot, Gulf of Mexico mixed species trap/pot both Category III
lobster	traps	287 small vessels	not applicable	not applicable	Gulf of California: Mexican EEZ	bottlenose dolphin	no information			http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofCalifornia_Guide.pdf ; 2015-2016 import trade data	selective fishing method, analogous fishery = Gulf of Mexico blue crab trap/pot, Gulf of Mexico mixed species trap/pot both Category III
dorado/mahi mahi	pole and line/sport fishing	none provided	not applicable	not applicable	Gulf of Mexico	no information	no information			http://www.iucnredlist.org/details/154712/25 ; 2015-2016 import trade data	In Mexico, there are area-closures for commercial fishing for this species, and a two fish sport limit. In the past, there have been conservation measures implemented by the Inter-American Tropical Tuna Commission (IATTC) for no purse-seine fishing.
Abalone (red, green, yellow)	diving	165	not applicable	not applicable	Baja California	no information	no information			http://content.cdlib.org/view?docId=kt738nb1zx;NAAN=13030&doc.view=frames&chunk.id=d0e1789&toc.id=d0e1836&brand=calisphere ; 2015-2016 import trade data	
Abalone (red, green, yellow)	aquaculture	none provided	not applicable	not applicable	Baja California	no information	no information			FAO, National Fisheries Chart 2004; 2015-2016 import trade data	
Hard clam (Chione spp.)	diving	1139 small vessels	not applicable	not applicable	Pacific Ocean	no information	no information			FAO, National Fisheries Chart 2004; 2015-2016 import trade data	
Japanese carpet shell	aquaculture	none provided	not applicable	not applicable	none provided	no information	no information			FAO, National Fisheries Chart 2004	
Tuna (Pacific bluefin, yellowfin, bigeye)	bluefin: cage, floating, tank aquaculture -- Pacific cupped oyster: bottom culture	not applicable	not applicable	not applicable	Bluefin: Gulf of California/Baja	no information	no information			FAO, National Fisheries Chart 2004; 2015-2016 import trade data	
Oyster (American cupped, Pacific cupped, Cortez, Western wing, Mazatlán pearl)	culture	not applicable	not applicable	not applicable	Gulf of California/Baja	not applicable	not applicable			FAO, National Fisheries Chart 2004; 2015-2016 import trade data	
Pacific lion's paw geoduck clam	diving aquaculture	not applicable	not applicable	not applicable	Baja California	no information	no information	N/I		FAO, National Fisheries Chart 2004	
		not applicable	not applicable	not applicable	Baja California y Sonora	no information	no information			2015-2016 import trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
cobia	hand lines	none provided	not applicable	not applicable	Gulf of Mexico	no information	no information	N/I			https://www.oecd.org/mexico/34430128.pdf ; 2015-2016 import trade data; Mexico provided
conch	diving	not applicable	not applicable	not applicable	none provided	no information	none documented	N/I			2015-2016 import trade data; Mexico provided
crab	traps and hoops	1634 small vessels	not applicable	not applicable	Gulf of Mexico	bottlenose dolphin	no information	C/O, A/G	2015-2016 import trade data		selective fishing method, analogous fishery = Gulf of Mexico blue crab trap/pot, Gulf of Mexico mixed species trap/pot both Category III
crab, swimming crab	traps and hoops	1848 small vessels 248 large vessels/5,743 small vessels	not applicable	not applicable	Pacific Ocean	bottlenose dolphin	no information	C/O, A/G	2015-2016 import trade data		selective fishing method, analogous fishery = Gulf of Mexico blue crab trap/pot, Gulf of Mexico mixed species trap/pot both Category III
flatfish (dole, turbot, halibut, flounder), whitefish	handline		not applicable	not applicable	Pacific Ocean	no information	no information	N/I, A/G	2015-2016 import trade data		
sea bass	pole and line/sport fishing	none provided	not applicable	not applicable	In dam West Coast of Baja California	no information	no information	N/I, A/G	2015-2016 import trade data		
sea urchin	diving with hook diving/manual harvesting	220 small vessels	not applicable	not applicable	Pacific Ocean and Gulf of California	no information	no information	N/I, A/G	2015-2016 import trade data		
seaweed		66 small vessels	not applicable	not applicable		no information	no information	N/I, A/G	2015-2016 import trade data		
grouper	longline	none provided	not applicable	not applicable	Gulf of Mexico: Mexican EEZ	pilot whales, Risso's dolphin	no information	C/O, A/G		http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; http://www.iucnredlist.org/details/132724/25 ; http://www.fao.org/fi/oldsite/FCP/en/mex/body.htm ; 2015-2016 import trade data; Mexico provided	analogous fishery = Gulf of Mexico snapper-grouper longline, Category III
red snapper	longline	none provided	not applicable	not applicable	Gulf of Mexico	no information	no information	C/O, A/G			analogous fishery = Gulf of Mexico snapper-grouper longline, Category III
sharks	longline	115 small vessels	not applicable	not applicable	Gulf of Mexico and Caribbean: Mexican EEZ	Risso's dolphin, pilot whales	no information	C/O, A/G		Mexico provided; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; 2015-2016 import trade data	Previously considered in the flatfish fishery (dole, turbot, halibut, flounder) analogous fishery = Gulf of Mexico shark longline, Category III all year except May 1-June 30
sharks	longline	4 large vessels/288 small vessels	not applicable	not applicable	Gulf of Mexico and Caribbean: Mexican EEZ	no information	no information	C/O, A/G		Mexico provided; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; 2015-2016 import trade data	analogous fishery = Gulf of Mexico shark longline, Category III All year except May 15-June 15, August 1-29
swordfish	pole and line/sport fishing	none provided	not applicable	not applicable	Pacific Ocean	no information	no information	N/I, A/G	2015-2016 import trade data		
Export Fisheries											
						Tursiops truncatus, Stenella sp., Globicephala macrorhynchus, Stenella coeruleoalba, Physeter macrocephalus, Stenella longirostris, Steno bredanensis, Pseudorca crassidens, Stenella clymene, Stenella clymene, Feresa attenuata, Risso's dolphin, pilot whales present in area					On board observer program
yellowfin tuna (bluefin, swordfish, sailfish, marlin, sharks)	longline	28	not applicable	not applicable	Gulf of Mexico: Mexican EEZ		none documented	C/O, A/G		Mexico provided Annex 12; 2015-2016 trade import data; Young and Ludicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; http://www.ecowatch.com/endangered-species-found-dead-likely-result-of-illegal-fishing-1882188013.html ; https://www.oecd.org/mexico/34430128.pdf ; Patiño et al. (2000); Ramírez et al. (2000)	Any specimen of dolphin or other marine mammal, sea turtle or fowl that could be trapped during fishing operations must be released under the best survival conditions, and retaining on board live or dead specimens or any of their parts is prohibited. In the Gulf of Mexico, tuna fishing is currently undertaken by low-capacity longline vessels, which catch their tuna mostly by using live bait. The fleet currently comprises 28 vessels. All year (no closure period)
yellowfin (skipjack, bluefin, albacore, bigeye, black skipjack)	longline	159	not applicable	not applicable	Inter-American Tropical Tuna Commission Convention area	Risso's dolphin, pilot whales	none documented	C/O, A/G	IATTC	IATTC; tuna spreadsheet; Mexico provided	There are longline vessels registered under the Mexican flag for the IATTC Convention Area (https://www.iattc.org/vesselregister/VesselList.aspx?List=RegVessels&Lang=ENG#Mexico)

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yellowfin (skipjack, bluefin, albacore, bigeye, black skipjack)	gillnet	1	not applicable	not applicable	Inter-American Tropical Tuna Commission Convention area	eastern spinner dolphin, offshore spotted dolphin, whitebelly spinner dolphin, striped dolphin, common dolphin	none documented	C/O, A/G	IATTC	IATTC; tuna spreadsheet; Mexico provided	
corvina	gillnet	734	not applicable	not applicable	northern Gulf of California	vaquita, common dolphin, humpback whale, California sea lions	several per year	C/O, A/G	PACE	http://www.iucn-csg.org/index.php/vaquita/ ; http://www.fao.org/fi/oldsite/FCP/en/mex/body.htm ; http://www.ecowatch.com/endangered-species-found-dead-likely-result-of-illegal-fishing-1882188013.html ; http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofC alifornia_Guide.pdf ; Mexico provided	Gillnet ban in upper Gulf of California since 2015. Although no formal bycatch estimate was available for many years following the scientific description of the vaquita in 1958, interviews with fishermen and observed carcasses indicated that incidental mortality in gillnets was high. From the 1980s onwards, it became clear that vaquitas were dying in most, if not all, types of gillnets used in the northern Gulf. The deaths of at least 128 vaquitas in fishing gear were documented between early March 1985 and early February 1992. Numbers have continued their downward trend of recent years, from 567 in 1997 to 245 in 2008 to about 60 in 2015. Selective fishing method
cobia	trot lines	none provided	not applicable	not applicable	Gulf of Mexico	no information	no information	N/I		https://www.oecd.org/mexico/34430128.pdf ; 2015-2016 import trade data; Mexico provided	
cobia	traps	none provided	not applicable	not applicable	Gulf of Mexico	no information	no information	N/I		https://www.oecd.org/mexico/34430128.pdf ; 2015-2016 import trade data; Mexico provided	
cobia	gillnets	none provided	not applicable	not applicable	Gulf of Mexico	no information	no information	N/I		https://www.oecd.org/mexico/34430128.pdf ; 2015-2016 import trade data; Mexico provided	
shrimp	trawl	37 large vessels/3528 small vessels	not applicable	not applicable	Baja Sur: Mexican EEZ	bottlenose dolphin, common dolphin	no information	C/O, A/G		http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; 201 Trawls have a marine turtle excluder device	On board observer program
shrimp	trawl	150 large vessels/3042 small vessels	not applicable	not applicable	Gulf of Mexico: Mexican EEZ (Tamaulipas and Veracruz, in the marine area of 9.14 m, 109.73 m deep)	bottlenose dolphin, common dolphin	no information	C/O, A/G		Young and Iudicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; 2015-2016 import trade data; Mexico provided	On board observer program Trawls have a marine turtle excluder device
shrimp	trawl	158 large vessels/854 small vessels	not applicable	not applicable	Gulf of Mexico: Mexican EEZ (Tabasco to Quinta Roo)	bottlenose dolphin, common dolphin	no information	C/O, A/G		Young and Iudicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; 2015-2016 import trade data; Mexico provided	On board observer program Trawls have a marine turtle excluder device
shrimp, finfish	gillnet	none provided	not applicable	not applicable	Northern Gulf of California	vaquita, common dolphin, humpback whale, California sea lions	no information	C/O, A/G	PACE	Mexico provided	
octopus (green octopus, two-spotted octopus)	traps	302 small vessels	not applicable	not applicable	Baja Sur: Mexican EEZ	no information	no information	C/O, A/G		http://www.fao.org/fi/oldsite/FCP/en/mex/body.htm ; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofC alifornia_Guide.pdf ; 2015-2016 import trade data; Mexico provided	
sardines, mackerel (Sardinops sagax caerulea, Ophistonema spp., Etrumeus teres, Oligoplites spp., Cetengraulis mysticetus, Engraulis mordax mordax, Scomber japonicus)	purse seine	Maximum 22 vessels in operation	not applicable	not applicable	West Coast B.C.: (Ensenada e Isla de Cedros)	vaquita, common dolphin, humpback whale, California sea lions	no information	C/O, A/G	PACE	http://www.iucn-csg.org/index.php/vaquita/ ; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm ; http://www.ecowatch.com/endangered-species-found-dead-likely-result-of-illegal-fishing-1882188013.html ; 2015-2016 import trade data; Mexico provided	On board observer program

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sardines, mackerel (Sardinops sagax caerulea, Ophistonema spp., Etrumeus teres, Oligoplites spp., Cetengraulis mysticetus, Engraulis mordax mordax, Scomber japonicus)	gillnet	none provided	not applicable	not applicable	Gulf of California: Mexican EEZ	vaquita, common dolphin, humpback whale, California sea lions	no information	C/O, A/G	PACE	http://www.iucn-csg.org/index.php/vaquita/; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; http://www.ecowatch.com/endangered-species-found-dead-likely-result-of-illegal-fishing-1882188013.html; 2015-2016 import trade data; Mexico provided	On board observer program Although no formal bycatch estimate was available for many years following the scientific description of the vaquita in 1958, interviews with fishermen and observed carcasses indicated that incidental mortality in gillnets was high. From the 1980s onwards, it became clear that vaquitas were dying in most, if not all, types of gillnets used in the northern Gulf. The deaths of at least 128 vaquitas in fishing gear were documented between early March 1985 and early February 1992. Numbers have continued their downward trend of recent years, from 567 in 1997 to 245 in 2008 to about 60 in 2015.
lobster	traps	none provided	not applicable	not applicable	Gulf of California: Mexican EEZ	no information	no information	C/O, A/G		http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofC alifornia_Guide.pdf; 2015-2016 import trade data; Mexico provided	
giant squid/Humboldt, cuttlefish	pots and creels	210 large vessels/1514 small vessels	not applicable	not applicable	Gulf of California: Mexican EEZ	no information	no information	C/O, N/I		http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; http://www.seachoice.org/wp-content/uploads/2011/11/MBA_SeafoodWatch_GulfofC alifornia_Guide.pdf; 2015-2016 import trade data	highly selective gear
squid/Humboldt, cuttlefish	pots and creels	5 large vessels	not applicable	not applicable	Pacific Ocean	no information	no information	C/O, N/I		2015-2016 import trade data; http://www.fao.org/fi/oldsite/FCP/en/mex/body.htm	
sharks	longline	70 small vessels	not applicable	not applicable	Gulf of California: Mexican EEZ	vaquita, common dolphin, humpback whale, California sea lions	several per year	C/O, A/G		Mexico provided; Young and Iudicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; 2015-2016 import trade data	On board observer program Longline ban in upper Gulf of California since 2015
sharks	gillnet	569 small vessels	not applicable	not applicable	Gulf of California: Mexican EEZ	vaquita, common dolphin, humpback whale, California sea lions	several per year	C/O, A/G		Mexico provided; Young and Iudicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; 2015-2016 import trade data; Mexico provided	On board observer program Gillnet ban in upper Gulf of California since 2015
sharks	longline	61 small vessels	not applicable	not applicable	Baja Sur: Mexican EEZ	Risso's dolphin, pilot whales	no information	C/O, A/G		Mexico provided; Young and Iudicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; 2015-2016 import trade data	on board observer program
sharks	gillnet	502 small vessels	not applicable	not applicable	Baja Sur: Mexican EEZ	no information	no information	C/O, A/G		Mexico provided; Young and Iudicello 2007; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; 2015-2016 import trade data	on board observer program
sharks	gillnet	none provided	not applicable	not applicable	Gulf of Mexico: Mexican EEZ	bottlenose dolphin	no information	C/O, A/G		Mexico provided; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; 2015-2016 import trade data	
sharks	gillnet	121 small vessels	not applicable	not applicable	Gulf of Mexico: Mexican EEZ	Risso's dolphin, pilot whales	no information	C/O, A/G		Mexico provided; http://www.fao.org/fi/oldsite/FCP/en/mex/profile.htm; 2015-2016 import trade data	
flatfish (sole, turbot, halibut, flounder), whitefish	gillnet	248 large vessels/5,743 small vessels	not applicable	not applicable	Pacific Ocean	no information	no information	N/I, A/G		2015-2016 import trade data; Mexico provided	
flatfish (sole, turbot, halibut, flounder), whitefish	longline	248 large vessels/5,743 small vessels	not applicable	not applicable	Pacific Ocean West Coast of Baja California	no information	no information	N/I, A/G		2015-2016 import trade data; Mexico provided	
sablefish, groundfish (cod, hake)	longline	2 small vessels	not applicable	not applicable	Pacific Ocean West Coast of Baja California	no information	no information	N/I, A/G		2015-2016 import trade data; Mexico provided	All year
flatfish (sole, turbot, halibut, flounder), whitefish	traps	248 large vessels/5,743 small vessels	not applicable	not applicable	Pacific Ocean	no information	no information	N/I, A/G		2015-2016 import trade data; Mexico provided	
sablefish, groundfish (cod, hake)	traps	2 small vessels	not applicable	not applicable	West Coast of Baja California	no information	no information	N/I, A/G		2015-2016 import trade data; Mexico provided	All year

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sole, white corvina, verdillo	gillnet	none provided	not applicable	not applicable	Pacific Ocean: west coast of Baja California Peninsula	no information	no information	N/I, A/G	Mexico provided		<p>All year</p> <p>RESOLUTION establishing a protected fishing area and new measures to reduce the possible fishing interaction with sea turtles in the West Coast of Baja California Sur (06/23/2016)</p> <p>-Applicable to fishermen, license holders and concessionaires of commercial and sports recreational fishing using large and small vessels in the exploitation of fishing resources in federal jurisdiction marine waters of the United Mexican States, adjacent to the west littoral region of Baja California Sur, in the area called "Gulf of Ulloa".</p> <p>-Commercial fishing activities may only be conducted with fishing gear specifically authorized with commercial fishing permits or concessions, except for:</p> <ol style="list-style-type: none"> 1) Gillnets with mesh sizes greater than 15.2 centimeters (6 inches) cannot be used throughout the whole year. 2) Gillnets with mesh size between 10.8 centimeters (4 1/4 inches) and 15.2 centimeters (6 inches) cannot be used in the period of high presence of sea turtles occurring between May and August each year. 3) In marine waters of the "Specific Areas of Fishing Restrictions" gillnets will not operate for more than six continuous hours. 4) Trawl lines or longlines with "J" hooks shall not be used under any no circumstances. Trawl lines or longlines with circle hooks at a maximum angle of 10 degrees with respect to the vertical axis may be used. 5) Large temporary fixed traps, called "trap-nets" shall not be used under any circumstances.
sole, white corvina, verdillo	longline	none provided	not applicable	not applicable	Pacific Ocean: west coast of Baja California Peninsula	no information	no information	N/I, A/G	Mexico provided		<p>All year</p> <p>RESOLUTION establishing a protected fishing area and new measures to reduce the possible fishing interaction with sea turtles in the West Coast of Baja California Sur (06/23/2016)</p> <p>-Applicable to fishermen, license holders and concessionaires of commercial and sports recreational fishing using large and small vessels in the exploitation of fishing resources in federal jurisdiction marine waters of the United Mexican States, adjacent to the west littoral region of Baja California Sur, in the area called "Gulf of Ulloa".</p> <p>-Commercial fishing activities may only be conducted with fishing gear specifically authorized with commercial fishing permits or concessions, except for:</p> <ol style="list-style-type: none"> 1) Gillnets with mesh sizes greater than 15.2 centimeters (6 inches) cannot be used throughout the whole year. 2) Gillnets with mesh size between 10.8 centimeters (4 1/4 inches) and 15.2 centimeters (6 inches) cannot be used in the period of high presence of sea turtles occurring between May and August each year. 3) In marine waters of the "Specific Areas of Fishing Restrictions" gillnets will not operate for more than six continuous hours. 4) Trawl lines or longlines with "J" hooks shall not be used under any no circumstances. Trawl lines or longlines with circle hooks at a maximum angle of 10 degrees with respect to the vertical axis may be used. 5) Large temporary fixed traps, called "trap-nets" shall not be used under any circumstances.

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sole, white corvina, verdillo	traps	none provided	not applicable	not applicable	Pacific Ocean: west coast of Baja California Peninsula	no information	no information	N/I, A/G	Mexico provided		<p>All year</p> <p>RESOLUTION establishing a protected fishing area and new measures to reduce the possible fishing interaction with sea turtles in the West Coast of Baja California Sur (06/23/2016)</p> <p>-Applicable to fishermen, license holders and concessionaires of commercial and sports recreational fishing using large and small vessels in the exploitation of fishing resources in federal jurisdiction marine waters of the United Mexican States, adjacent to the west littoral region of Baja California Sur, in the area called "Gulf of Ulloa".</p> <p>-Commercial fishing activities may only be conducted with fishing gear specifically authorized with commercial fishing permits or concessions, except for:</p> <p>1) Gillnets with mesh sizes greater than 15.2 centimeters (6 inches) cannot be used throughout the whole year. 2) Gillnets with mesh size between 10.8 centimeters (4 1/4 inches) and 15.2 centimeters (6 inches) cannot be used in the period of high presence of sea turtles occurring between May and August each year. 3) In marine waters of the "Specific Areas of Fishing Restrictions" gillnets will not operate for more than six continuous hours. 4) Trotlines or longlines with "J" hooks shall not be used under any no circumstances. Trotlines or longlines with circle hooks at a maximum angle of 10 degrees with respect to the vertical axis may be used. 5) Large temporary fixed traps, called "trap-nets" shall not be used under any circumstances.</p>

Morocco

Exempt Fisheries

											In sufficient information on bycatch
											Order No. 955-92 of 16 June 1992 concerning the temporary ban on fishing for certain species
Octopus, Cuttlefish, Squid, and Other Cephalopods	jig		not applicable	not applicable	Mediterranean Sea	None provided	None provided	A/G, N/I		U.S. Trade Data; Morocco provided; Report on the state of fishery stocks in Morocco (www.inrh.ma)	<p>Ministerial decisions for fishing management in 2 areas and 2 biological rest periods.</p> <p>In sufficient information on bycatch</p> <p>Line : From July 1st to October 31st</p> <p>Decree No. 2-08-562 of 12 December 2008 laying down the conditions and procedures for the issue and renewal of authorizations for the establishment of maritime fishing as amended and completed</p> <p>Order No. 1643-10 of 26 May 2010 relating to the application authorizing the creation and operation of a maritime fishing establishment and laying down the model concession agreement relating thereto Ministerial Decision No. 01/15 of 05 March 2015</p>
Tuna, Swordfish	Hook and Line	None provided	not applicable	not applicable	Mediterranean Sea and International Convention for the Conservation of Atlantic Tuna Convention Area	None provided	None provided	A/G,	ICCAT, GFCM, ACCOBAMS, CITES	U.S. Trade Data; Morocco provided	
Algae/Seaweed	Diving, hand collection	1157	not applicable	not applicable	Areas near Sidi Moussa, Cape Tamlet, Cape Juby, Cape Levin	None provided	None provided	A/G		U.S. Trade Data; Morocco provided	(Lat :31° 03' 44" North Zone II : Cape Juby : Lat 27° 57' 14" North and Lakraa - Cape Levin 24° 30' 11" North; El Jadida and the North of Essaouira

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											Fishing for <i>Mytilus galloprovincialis</i> and <i>Perna perna</i> In the Mediterranean and the Atlantic up to Tarfaya: October 1st to June 30th of the following year -From Tarfaya to Lagouira: from October 1st to March 31st of the following year -Order n° 2822 of November 20th, 2009 relative to the temporary prohibition of fishing and collection of the (<i>Acanthocardia</i> sp) species and smooth clams of the (<i>Callista chione</i>) species in certain maritime zones of the Mediterranean Order No. 2236 of July 15, 2013 relating to the prohibition and collection of razor clams and their shells in Dakhla Bay
Mussels, shellfish	hand collection	100 participants	not applicable	not applicable	Coastal and intertidal zone	None provided	None provided	A/G	U.S. Trade Data; Morocco provided		Order No. 1676-98 of 12 August 1998 on the temporary ban on clam digging and collection as amended Fishing all year Decree No. 2-04-26 of January 17, 2005 laying down the conditions and modalities for collecting coral
Red Coral	Diving	10	not applicable	not applicable	Cape Spartel-Larache (Atlantic)	None provided	None provide	A/G	U.S. Trade Data; Morocco provided		Order No. 2409-10 of August 18, 2010 relating to the temporary ban on collecting red coral in certain Mediterranean maritime areas.
Export Fisheries											
											In the Mediterranean Sea between Tangier and Saidia : between 1.5 miles and 3 miles depending on the zone (see ministerial order) Between Tangier and Boujdour: 3 miles beyond South of Boujdour : 12 miles beyond during the 2 months following the opening of the winter fishing season, and then 10 miles beyond during the rest of the year. Protected zone : 12 miles beyond between 21°23'00"N and 20°54'40" N for monk seal protection + spatiotemporal closures of critical areas From November 30th to March 31st and from June 1st to August 31st of each year Order No. 955-92 of 16 June 1992 concerning the temporary ban on fishing for certain species Ministerial decisions for fishing management in 2 areas and 2 biological rest periods. Project 1: "Seine Sardine fishery in the Moroccan Mediterranean Sea" Attenuating the depredation of the great dolphin at the purse seine level". Mediterranean : -0.2 nmi Beyond -1 nmi beyond the Al Hoceima Bay *spatiotemporal closures of critical areas -North and central Atlantic : -1 nmi beyond - 8 nmi beyond in the demarcated zones between (28°25'N-29°00'N) -Beyond 10 nmi in the demarcated zones between (27°30'N' et 28°03'N') (being amended) In the south : -2 nmi beyond for seiners- spatiotemporal closures of critical areas -10 nmi beyond for RSWs -15 nmi beyond for pelagic freezer trawlers
Octopus, Cuttlefish, Squid, and Other Cephalopods	Trawl	Coastal trawlers: 633 Deep-sea trawlers 227, only for fishing south of Boujdour	not applicable	not applicable	Mediterranean Sea between Tangier and Saidia	None provided	None provided	A/G, N/I	Member GFCM; party to ACCOBAMS. At meeting of parties representative called out "negative interactions between cetaceans and fisheries" increasing in Western Mediterranean; Details p. 25 of RFMO_Intl_Regl; GFCM 2008; GFCM 2008b Report on the state of fishery stocks in Morocco (www.inrh.ma)		
Sardine, anchovy, mackerel (Sardine, anchovy, mackerel, horse mackerel, sardinella)	Purse Seine	Artisanal fishing vessels : 13500 none provided	not applicable	not applicable	Mediterranean Sea; Atlantic Ocean	Dolphins	None provided	A/G, N/I	Morocco provided U.S. Trade Data; Morocco provided		
Sardine, anchovy, mackerel (Sardine, anchovy, mackerel, horse mackerel, sardinella)	Trawl	Coastal trawlers: 680, RSW Pelagic trawlers : 22	not applicable	not applicable	Mediterranean Sea; Atlantic Ocean	None provided	None provided	A/G, N/I	U.S. Trade Data; Morocco provided; Scientific evaluation within the framework of the scientific subcommittee of the Fishery Committee for East Central Africa (CECAF); Report on the state of fishery stocks in Morocco (www.inrh.ma)		All year, except for temporary closures of some areas for the spawning protection and recruitment periods Decree n° 2-07- 230 of November 4th, 2008 fixing the conditions and

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Shrimp	Trawl	57 Freezer shrimp trawler 350 coastal trawlers	not applicable	not applicable	Atlantic Ocean	None provided	None provided	A/G, N/I	U.S. Trade Data; Morocco provided; Report on the state of fishery stocks in Morocco (www.inrh.ma)	<p>In sufficient information on bycatch</p> <p>Shrimp freezers: Banned in the Mediterranean Sea. 10 miles beyond in the Atlantic between Tangier and Cape Bojdour and south of Bojdour beyond Isobaths 200m and 500m</p> <p>Coastal trawlers: 3 miles beyond north of Bojdour and forbidden south of Bojdour</p> <p>Permitted all year except the months of February and July when freezer shrimp vessels are banned.</p> <p>To protect juveniles, it is also forbidden to fish shrimp in two areas north of El Jadida during the month of October and two areas south of El Jadida in September.</p> <p>Order No. 4198-14 of 2 safar 1436 (November 25, 2014) regulating the fishing of certain shrimp species</p> <p>Project 2: "Small-scale bluefin tuna fishery in Gibraltar Detroit - mitigating the socio-economic and ecological impacts of the phenomenon of killer whale depredation".</p> <p>Purse Seine : From May 26th to June 24th</p> <p>Decree No. 2-08-562 of 12 December 2008 laying down the conditions and procedures for the issue and renewal of authorizations for the establishment of maritime fishing as amended and completed</p> <p>Order No. 1643-10 of 26 May 2010 relating to the application authorizing the creation and operation of a maritime fishing establishment and laying down the model concession agreement relating thereto Ministerial Decision No. 01/15 of 05 March 2015</p>	
Tuna	Purse Seine	2	not applicable	not applicable	Mediterranean Sea, Gibraltar Detroit, Atlantic Ocean (International Convention for the Conservation of Atlantic Tuna Convention Area)	dolphins, killer whales	None provided	A/G, N/I	ICCAT, GFCM, ACCOBAMS, CITES	U.S. Trade Data; Morocco provided; See reports published by INRH on the stranding of marine mammals; Report on the state of fishery stocks in Morocco (www.inrh.ma)	<p>In sufficient information on bycatch</p> <p>In the Mediterranean: from January 1st to February 14th, from March 16th to September 30th and from December 1st to the 30th of each year</p> <p>90% of fleet are vessels that are LOA<7m</p> <p>Order N°1176-13 of 08 April 2013 regulating the fishing of swordfish</p> <p>ICCAT (requirements and national report sent to the Scientific Committee GFCM (Commission and Scientific Committee) ACCOBAM S-CITES</p>
Swordfish	Longline	446	not applicable	not applicable	Mediterranean Sea, Gibraltar Detroit, Atlantic Ocean (International Convention for the Conservation of Atlantic Tuna Convention Area)	dolphins, killer whales	None provided	A/G, N/I	ICCAT, GFCM, ACCOBAMS, CITES	U.S. Trade Data; Morocco provided; See reports published by INRH on the stranding of marine mammals; Report on the state of fishery stocks in Morocco (www.inrh.ma)	<p>In sufficient information on bycatch</p> <p>In the Mediterranean: from January 1st to February 14th, from March 16th to September 30th and from December 1st to the 30th of each year</p> <p>90% of fleet are vessels that are LOA<7m</p> <p>Order N°1176-13 of 08 April 2013 regulating the fishing of swordfish</p> <p>ICCAT (requirements and national report sent to the Scientific Committee GFCM (Commission and Scientific Committee) ACCOBAM S-CITES</p>
Sea bass, sea bream, mullet, and hake	Trawl	617 (coastal) 16 (pelagic)	not applicable	not applicable	Atlantic Ocean	None provided	None provided	A/G, N/I	U.S. Trade Data	Likely Marine Fish NSPF	

Mozambique

Exempt Fisheries

small pelagic, and small demersal marine fish and shrimp	beach seine	9,916	not applicable	not applicable	nearshore Mozambique, provinces of Nampula, Zambezia, Sofala, Inhambane and Maputo	none provided	none provided	A/G, N/I	FAO - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf NOAA Cetacean Bycatch Tech Memo (2007) Kiszka et al (2008)
small pelagic, and small demersal marine fish and shrimp	hand line, trap	13,853	not applicable	not applicable	nearshore Mozambique, provinces of Nampula, Zambezia, Sofala, Inhambane and Maputo	none provided	none provided	A/G, N/I	FAO - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf NOAA Cetacean Bycatch Tech Memo (2007) Kiszka et al (2008)
coral, shells, cuttlebone	diving, hand collection	10	none provided	none provided	Cape Spatel-Larache	none provided	none provided	A/G, N/I	U.S. Trade data
shrimp	marine aquaculture	not applicable	none provided	none provided	Beira, Sofala Province, Pemb, Cabo Delgado Province	none provided	none provided	A/G, N/I	U.S. Trade data: http://www.fao.org/fishery/countrysector/naso_mozambique/en

Export Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
fish and crustaceans (lobster, rock lobster, lobster, crab, shrimp, prawns, crayfish, squid, grouper, snapper, emperor and seabream)	gillnet	187 industrial vessels, 15,000 small-scale artisanal fishing	not applicable	not applicable	Sofala bank, Delagoa bight, Mozambique channel	Indian humpback dolphin: dolphins, whales dugongs	7.5 Indian humpback dolphin/yr. bycatch mortality in Indian Ocean coast of Africa	A/G, N/I		U.S. Trade data: ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf	No mitigation measures have been undertaken in Mozambique to characterize and reduce marine mammal bycatch in fishing gears.
fish and crustaceans (lobster, rock lobster, lobster, crab, shrimp, prawns, crayfish, squid, grouper, snapper, emperor and seabream)	pot, trap	187 industrial vessels, 15,000 small-scale artisanal fishing	not applicable	not applicable	Sofala bank, Delagoa bight, Mozambique channel	none provided	none provided	A/G, N/I		U.S. Trade data: ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf	
small pelagic, and small demersal marine fish and shrimp	gillnet	20,396	not applicable	not applicable	nearshore Mozambique, provinces of Nampula, Zambezia, Sofala, Inhambane and Maputo	Indian humpback dolphin: dolphins, whales dugongs	7.5 Indian humpback dolphin/yr. bycatch mortality in Indian Ocean coast of Africa	A/G, N/I		FAO - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf NOAA Cetacean Bycatch Tech Memo (2007) Kiszka et al (2008)	
small pelagic, and small demersal marine fish and shrimp	purse seine	563	not applicable	not applicable	nearshore Mozambique, provinces of Nampula, Zambezia, Sofala, Inhambane and Maputo	none provided	none provided	A/G, N/I		FAO - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf NOAA Cetacean Bycatch Tech Memo (2007) Kiszka et al (2008)	
small pelagic, and small demersal marine fish and shrimp	longline	1,077	not applicable	not applicable	nearshore Mozambique, provinces of Nampula, Zambezia, Sofala, Inhambane and Maputo	none provided	none provided	A/G, N/I		FAO - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_MZ.pdf NOAA Cetacean Bycatch Tech Memo (2007) Kiszka et al (2008)	
shrimp	trawl, bottom, artisanal fishing	187 national industrial vessels (out of which is 13 Chinese trawlers)	Pescamar Sociedade De Pesca De Mariscos Ltda,EFRIPEL - Entrepósito Frigorífico de Pesca de Moçambique Lda		Mozambique channel	none provided	none provided	A/G, N/I		ftp://ftp.fao.org/fi/document/fcp/en/fi_cp_mz.pdf , http://www.esaja.com/efripel-entrepósito-frigorífico-de-pesca-de-mo-ambique-lda/bizcontact-details?id1=66414	
tuna - yellowfin, bigeye, swordfish, shark	gillnet	none provided	none provided	none provided	Indian Ocean, Indian Ocean Tuna Commission Convention Area	none provided	none provided	A/G, N/I	IOTC	U.S. Trade data	
tuna - yellowfin, bigeye, swordfish, shark, dolphinfish, Spanish mackerel	longline	32 E.U. vessels, 22 Chinese vessels, 12 Mozambique vessels	none provided	none provided	Indian Ocean, Indian Ocean Tuna Commission Convention Area	none provided	none provided	A/G, N/I	IOTC	U.S. Trade data	
tuna - yellowfin, bigeye, swordfish, shark, dolphinfish	purse seine	43 E.U. tuna seiners, 8 Chinese seiners	none provided	none provided	Indian Ocean, Indian Ocean Tuna Commission Convention Area	none provided	none provided	A/G, N/I	IOTC	U.S. Trade data	
Namibia											
Exempt Fisheries											
mussels	aquaculture	not applicable	none provided	none provided	Luderitz sea lagoons	none provided	none provided	N/I, A/G		U.S. Trade data	
tuna, bigeye, yellowfin, swordfish, shark	pole and line	20 - 73	not applicable	Not applicable	South Atlantic, International Convention for the Conservation of Atlantic Tuna Convention Area	None provided	none provided	A/G		U.S. Trade Data	
toothfish	longline	2	not applicable	Not applicable	Subarea 58.4.1 (East Antarctica)	none documented	none documented	N/I, A/G		U.S. Trade Data	last active in 2008: US Trade data
toothfish	longline	2	not applicable	not applicable	Subarea 58.4.2	none documented	none documented	N/I, A/G		U.S. Trade Data	last active in 2008: US Trade data
toothfish	longline	1	not applicable	not applicable	Subarea 58.4.3b	none documented	none documented	N/I, A/G		U.S. Trade Data	last active in 2008: US Trade data
Export Fisheries											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
crab (red crab - Chaceon maritae)	pots or deep-water traps	2	not applicable	Not applicable	Atlantic Southeast (FAO Area 47)	None provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/nam/profile.htm	
groundfish, hake, sole, whiting, pollock, flounder, mackerel, orange roughy	trawler, mid-water	15, 2 factory mid-water trawlers owned by Atlantic Pacific Fishing	Pacific Andes Int'l Holdings Ltd., Atlantic Pacific Fishing (Pty) Ltd (APF), Helfdy Group of Companies (pty) Ltd., Joka Two Fishing (Pty) Ltd., and Namibia Seaweed Processing (Pty) Ltd, Bandberg Namibian Investment Company (Pty)	Not applicable	Atlantic Southeast (FAO Area 47)	None provided	none provided	N/I, A/G		http://www.apfishing.com/fish-products/	
groundfish, hake, sole, whiting, pollock, flounder, mackerel, orange roughy	trawl, deep-water	2 factory mid-water trawlers owned by Atlantic Pacific Fishing, & 5 deep-water trawlers	Pacific Andes Int'l Holdings Ltd., Atlantic Pacific Fishing (Pty) Ltd (APF), Helfdy Group of Companies (pty) Ltd., Joka Two Fishing (Pty) Ltd., and Namibia Seaweed Processing (Pty) Ltd, Bandberg Namibian Investment Company (Pty)	Not applicable	Atlantic Southeast (FAO Area 47)	None provided	none provided	N/I, A/G		http://www.apfishing.com/fish-products/	
deep water straddling stocks (alfonsino, orange roughy, oreo dories, armourhead, sharks, Patagonia toothfish, deepwater hake and red crab)	trawl	8	not applicable	Not applicable	Atlantic Southeast (FAO Area 47), SEAFO convention area	none provided	none provided	N/I, A/G		South East Atlantic Fishery Organization (SEAFO); http://www.seafo.org/media/be7b6428-c106-4b39-ac00-7bc3eda002c8/SEAFOweb/AuthorizedVessels/SEAFO%20Authorised%20Vessel%20List%202017_pdf	
deep water straddling stocks (alfonsino, orange roughy, oreo dories, armourhead, sharks, Patagonia toothfish, deepwater hake and red crab)	longline	8	not applicable	Not applicable	Atlantic Southeast (FAO Area 47), SEAFO convention area	none provided	none provided	N/I, A/G		South East Atlantic Fishery Organization (SEAFO); http://www.seafo.org/media/be7b6428-c106-4b39-ac00-7bc3eda002c8/SEAFOweb/AuthorizedVessels/SEAFO%20Authorised%20Vessel%20List%202017_pdf	
deep water straddling stocks (alfonsino, orange roughy, oreo dories, armourhead, sharks, Patagonia toothfish, deepwater hake and red crab)	pots	8	not applicable	Not applicable	Atlantic Southeast (FAO Area 47), SEAFO convention area	none provided	none provided	N/I, A/G		South East Atlantic Fishery Organization (SEAFO); http://www.seafo.org/media/be7b6428-c106-4b39-ac00-7bc3eda002c8/SEAFOweb/AuthorizedVessels/SEAFO%20Authorised%20Vessel%20List%202017_pdf	
juvenile horse mackerel	purse seine	36	not applicable	not applicable	Atlantic Southeast (FAO Area 47)	None provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/nam/profile.htm	
Export Fisheries with No Information											
dolphinfish, kob, snoek, steenbras	off-shore fishing	16	not applicable	Not applicable	off-shore of Namibia	None provided	none provided	N/I		http://www.fao.org/fi/oldsite/FCP/en/nam/profile.htm	
lobster, rock lobster	traps	none documented	none provided	none provided	Southern port of Luderitz	None provided	none provided	N/I, A/G			
sea cucumbers	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
butterfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
mullet	gillnet, set net, driftnet, trammel net	none provided	not applicable	Not applicable	FAO Area 47	Heaviside's dolphin, other cetaceans and pinnipeds	67 Heaviside's dolphin inshore gillnet bycatch (in 1983)	N/I		NOAA Cetacean Bycatch Tech Memo (2007); CMS (2011); Waugh et al (2011)	Within EEZ and high seas FAO areas presenting highest exposure for gillnet bycatch mortality
Netherlands											
Export Fisheries											
European plaice	trawl, beam	70	not applicable	not applicable	year-round; North Sea (ICES 4)	marine mammals present in area, species not specified	None documented	C/O, A/G		EU submitted spreadsheet	Marine mammal interactions species not reported
common sole	trawl, beam	100	not applicable	not applicable	year-round; North Sea (ICES 4)	marine mammals present in area, species not specified	None documented	C/O, A/G		EU submitted spreadsheet	Marine mammal interactions species not reported
striped red mullet	trawl, beam	10	not applicable	not applicable	year-round; North Sea (ICES 4)	marine mammals present in area, species not specified	None documented	C/O, A/G		EU submitted spreadsheet	Marine mammal interactions species not reported
common dab	trammel nets	10	not applicable	not applicable	quarter 1 and 4; North Sea (ICES 4c)	harbor porpoise	occasional	P, A/G		EU submitted spreadsheet	
turbot	trammel nets	5	not applicable	not applicable	quarter 1 and 4; North Sea (ICES 4c)	harbor porpoise	occasional	P, A/G		EU submitted spreadsheet	
Atlantic cod	trammel nets	5	not applicable	not applicable	quarter 1 and 4; North Sea (ICES 4c)	harbor porpoise	occasional	P, A/G		EU submitted spreadsheet	
European seabass	gillnet	5	not applicable	not applicable	year-round; North Sea (ICES 4c)	harbor porpoise	rare	P, A/G		EU submitted spreadsheet	
Atlantic mackerel	trawl, pelagic	10	not applicable	not applicable	year-round; North Sea, Celtic Sea, and NE Atlantic (ICES 4-8)	common dolphin, possible white-sided dolphin	occasional	P, A/G		EU submitted spreadsheet, and worldwide cetacean bycatch/appendices	
horse mackerel	trawl, pelagic	10	not applicable	not applicable	year-round; North Sea, Celtic Sea, and NE Atlantic (ICES 4-8)	common dolphin	occasional	P, A/G		EU submitted spreadsheet	
blue whiting	trawl, pelagic	10	not applicable	not applicable	year-round; North Sea, Celtic Sea, and NE Atlantic (ICES 4-8)	common dolphin	rare	P, A/G		EU submitted spreadsheet	
herring	trawl, pelagic	10	not applicable	not applicable	year-round; North Sea, Celtic Sea, and NE Atlantic (ICES 4-8)	white-beaked dolphin	rare	P, A/G		EU submitted spreadsheet, Young and Iudicello 2007	Approximately 196 (5 – 493) white-sided dolphins have been caught in pelagic trawl fisheries for horse mackerel and mackerel southwest of Ireland.61
New Caledonia											
Export Fisheries											
Tuna, albacore, bigeye	Longline	20 vessels	not applicable	not applicable	New Caledonia EEZ	Spotted Dolphin Short-finned pilot whale	2009--Spotted Dolphin released alive 2010--Short-finned pilot whale released alive 2015--Melon-headed whale released alive	P, A/G	none	U.S. Trade Data, national annual report to WCPFC	5% observer coverage. Substantial amount of depredation ranging from 20-100 percent of sets, EEZ wide shark (declared 2013) and marine mammals (declared 2003 sanctuary)
New Zealand											
Exempt Fisheries											
Blue Mackerel (jack mackerel, Barracouta, Kahawai, Trevally)	Purse seine	5	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Bluenose (Alfonsino and Long-finned beryx, bass, Hapuku, Ling)	longline, bottom	60	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Bluenose (Alfonsino and Long-finned beryx, bass, Hapuku, Ling)	trawl	5	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Clams (King clam, Deepwater clam, Ringed dosinia, Filled venus shell)	Dredge	1	not applicable	not applicable	North and South Islands	None Documented	None Documented	A/G		U.S. Trade Data	None observed/reported/ estimated
Cockles	Dredge	3	not applicable	not applicable	North and South Islands	None Documented	None Documented	A/G		U.S. Trade Data	None observed/reported/ estimated
Cockles	hand gathering	4	not applicable	not applicable	North and South Islands	None Documented	None Documented	A/G		U.S. Trade Data	None observed/reported/ estimated

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Cod, Blue (Hapuku and Bass, Tarakihi)	Hand Line	21	not applicable	not applicable	South Island South Island [1 March - 31 August]	None Documented	None Documented	C/O,A/G	U.S. Trade Data		None observed/reported/ estimated
Dredge Oysters	Dredge	52	not applicable	not applicable		None Documented	None Documented	A/G	U.S. Trade Data		None observed/reported/ estimated
Mussels (freshwater mussel, green-lipped mussel, freshwater mussel, horse mussel, blue mussel)	Dredge	0	not applicable	not applicable	None provided	None Documented	None Documented	A/G	U.S. Trade Data		None observed/reported/ estimated
Mussels (freshwater mussel, green-lipped mussel, freshwater mussel, horse mussel, blue mussel)	trawl	0	not applicable	not applicable	None provided	None Documented	None Documented	A/G	U.S. Trade Data		None observed/reported/ estimated
Paua (black paua, yellowfoot paua)	hand gathering	186	not applicable	not applicable		None Documented	None Documented	A/G	U.S. Trade Data		
Paua	aquaculture	4	None provided	not applicable	Canterbury, Marlborough, Southland, Chatham Islands	None Documented	None Documented	C/O,A/G	U.S. Trade Data		Authorizations - This is the number of leases/licenses/permits/aquaculture decisions, not the number of actual farms. Particularly in the Marlborough Sounds a farm may be made up by several authorizations.
Scallops (oyster)	Dredge	23	not applicable	not applicable	[15 July - 14 February]	No	None	A/G	U.S. Trade Data		
Squid (barracouta, hake, hoki, Jack mackerel, ling, redbait, red cod, scampi, arrow squid, silver warehou, tarakihi, white warehou)	jig	7	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G	U.S. Trade Data		
Trevally (Blue mackerel, gurnard, grey mullet, Jack Dory, Jack mackerel, Kahawai, snapper, rig, tarakihi)	Ring net	10	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data		None observed/reported/ estimated
Tuatua	hand gathering	2	not applicable	not applicable	none provided	None Documented	None Documented	A/G	U.S. Trade Data		
Cod, Red (Barracouta, Elephant fish, flatfish, gurnard, john dory, Ling, lemon sole, red cod, scampi, sea perch, arrow squid, giant stargazer, trevally, silver warehou, common warehou)	Danish seine	5	not applicable	not applicable	South Island	None Documented	None Documented	C/O, N/I	U.S. Trade Data		None observed/reported/ estimated
Elephant Fish (Barracouta, flatfish, gurnard, lemon sole, red cod, school shark, starfish, rig, giant stargazer, trevally, common warehou, yellowbelly flounder)	Danish seine	4	not applicable	not applicable	South Island	None Documented	None Documented	C/O, N/I	U.S. Trade Data		None observed/reported/ estimated
Flatfish (elephant fish, gurnard)	Danish seine	287	not applicable	not applicable	None provided	None Documented	None Documented	C/O, N/I	U.S. Trade Data		None observed/reported/ estimated
Flounder (elephant fish, flatfish, gurnard)	Danish seine	Incl in flatfish	not applicable	not applicable	None provided	None Documented	None Documented	C/O, N/I	U.S. Trade Data		None observed/reported/ estimated
Gurnard (Barracouta, Elephant fish, New Zealand sole, flatfish, John Dory, red cod, lemon sole, sand flounder, snapper, rig, giant stargazer, tarakihi, trevally, common warehou)	Danish seine	23	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O,A/G	U.S. Trade Data		None observed/reported/ estimated
John Dory (flatfish, gurnard, John dory, snapper, tarakihi, trevally)	Danish seine	5	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data		None observed/reported/ estimated
Sole, New Zealand (flatfish, elephant fish, red cod, tarakihi, gurnard)	Danish seine	Incl in flatfish	not applicable	not applicable	None provided	None Documented	None Documented	C/O, N/I		Sole is captured under flatfish reporting	None observed/reported/ estimated
Spotted Dogfish (Rig) (elephant fish, flatfish, gurnard, John dory, red cod, school shark, snapper, rig, giant stargazer, tarakihi, trevally)	Danish seine	7	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O, N/I	U.S. Trade Data		None observed/reported/ estimated
Tarakihi (barracouta, flatfish, gurnard, hapuku and bass, John dory, ling, red cod, school shark, gemfish, snapper, sea perch, giant stargaze, trevally, warehou)	Danish seine	6	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O, N/I	U.S. Trade Data		None observed/reported/ estimated

Target Species or Product Export Fisheries	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co- Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Patagonian Toothfish	longline	2	not applicable	not applicable	Subarea 48.3 (South Georgia Is.)- 48.4 [Dec - Feb, March - Nov.]	Southern elephant seal, Antarctic fur seal	2007: 1 elephant seal killed, 2009: 1 fur seal killed, 2 fur seals released	P, A/G	CCAMLR	Provided by NZ, checked against	active
Antarctic Toothfish	longline	3	not applicable	not applicable	Subarea 88.1-2 [Dec - Feb, March - Nov.]	crabeater seal, leopard seal	2008: 1 crabeater seal killed, 2016: 1 leopard seal released	P, A/G	CCAMLR	Provided by NZ, checked against	active
Barracouta, (Arrow squid, hoki, elephant fish, jack mackerel, flatfish, gurnard, john dory, Ling, redbait, red cod, school shark, snapper, sea perch, rig, squalus, tarakihi, trevally, common warehou)	trawl	106	not applicable	not applicable	South Island	NZ Fur Seal Common dolphin Dusky dolphin	NZ Fur Seal - 30 p.a. (5yr avg) Common dolphin - 3 p.a. (5yr avg) Dusky dolphin - 2 Observed in Feb 2015	P, A/G		Estimated captures from statistical models based on observed captures and fishing effort for all except Dusky Dolphin. Information on methodology and estimates available at http://psc.dragonfly.co.nz , 2015 IWC Whale Fishery Bycatch Table,	IWC
Blue Mackerel (jack mackerel, Barracouta, Kahawai, Trevally)	trawl	2	not applicable	not applicable	west coast, South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Cod, Blue (Hapuku and Bass, Tarakihi)	pots	267	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Cod, Blue (Hapuku and Bass, Tarakihi)	trawl	5	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Cod, Blue (Hapuku and Bass, Tarakihi)	longline, bottom	2	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Cod, Red (Barracouta, Elephant fish, flatfish, gurnard, john dory, Ling, lemon sole, red cod, scampi, sea perch, arrow squid, giant stargazer, trevally, silver warehou, common warehou)	trawl	56	not applicable	not applicable	east coast, South Island	NZ fur seal	NZ fur seal: 42 estimated captures per year for all Inshore trawl fisheries.	P, C/O,A/G		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based on the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Cod, Red (Barracouta, Elephant fish, flatfish, gurnard, john dory, Ling, lemon sole, red cod, scampi, sea perch, arrow squid, giant stargazer, trevally, silver warehou, common warehou)	Set net	1	not applicable	not applicable	South Island	None Documented	None Documented	C/O, N/I		U.S. Trade Data	None observed/reported/ estimated
Cod, Red (Barracouta, Elephant fish, flatfish, gurnard, john dory, Ling, lemon sole, red cod, scampi, sea perch, arrow squid, giant stargazer, trevally, silver warehou, common warehou)	longline, bottom	0	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Crustaceans other (scampi, king crab, smooth red swimming crab, giant spider crab, paddle crab)	trawl	30	not applicable	not applicable	NZ EEZ N&E of North Island, Chatham Rise, Auckland Islands	NZ Sea lion NZ Fur seal	NZ sea lion - 6 p.a. (5yr avg estimate) NZ Fur seal - 6 p.a. (5yr avg estimate)	P, C/O,A/G		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	
Crustaceans other (scampi, king crab, smooth red swimming crab, giant spider crab, paddle crab)	pots	31	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Elephant Fish (Barracouta, flatfish, gurnard, lemon sole, red cod, school shark, starfish, rig, giant stargazer, trevally, common warehou, yellowbelly flounder)	Set net	8	not applicable	not applicable	South Island	Hector's dolphin	Hector's dolphin: 32.3 estimated number of annual mortalities in all inshore set net fisheries; 1 observed capture when targeting elephant fish in 2013	C/O,A/G, P		Estimated number of annual fatalities for Hector's dolphins in Inshore set net fisheries (not specific to target species) can be found in the Aquatic Environment and Biodiversity Annual report 2016: Hector's and Māui dolphins.	Note: MPI does not have bycatch estimates for marine mammals based on the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Elephant Fish (Barracouta, flatfish, gurnard, lemon sole, red cod, school shark, starfish, rig, giant stargazer, trevally, common warehou, yellowbelly flounder)	trawl	43	not applicable	not applicable	East coast South Island	Hector's dolphin	Hector's dolphin: 9 estimated number of annual mortalities in all inshore trawl fisheries; 1 reported trawl capture when targeting elephant fish in 2016	C/O,A/G, P		Estimated number of annual fatalities for Hector's dolphins in inshore set net fisheries (not specific to target species) can be found in the Aquatic Environment and Biodiversity Annual report 2016: Hector's and Māui dolphins.	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Flatfish (elephant fish, gurnard)	Set net	287	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Flatfish (elephant fish, gurnard)	trawl	129	not applicable	not applicable	North and South Islands	Seals & Sea lions NZ fur seals Common dolphin	NZ fur seal: 42 estimated captures per year for all Inshore trawl fisheries. Common dolphin: 49 estimated captures per year for all inshore trawl fisheries	C/O,A/G		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Flounder (elephant fish, flatfish, gurnard)	trawl	Incl in flatfish	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Flounder (elephant fish, flatfish, gurnard)	Set net	Incl in flatfish	not applicable	not applicable	North and South Islands	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Ghostshark (Barracouta, hoki, Ling, red cod, scampi, arrow squid, giant stargazer, silver warehou, common warehou, tarakihi)	trawl	8	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Ghostshark (Barracouta, hoki, Ling, red cod, scampi, arrow squid, giant stargazer, silver warehou, common warehou, tarakihi)	longline, bottom	108(105,29)	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Grouper (hapuku, bass, hapuku and bass)	Set net	13	not applicable	not applicable	East coast South Island	NZ fur seal Humpback whale	NZ fur seal: 4 observed captures when targeting Hapuku & bass between 2014 and 2015	C/O,A/G, P		U.S. Trade Data	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Grouper (hapuku, bass, hapuku and bass)	longline, bottom	72	not applicable	not applicable	NZ EEZ (except Sub-Antarctic)	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Grouper (hapuku, bass, hapuku and bass)	trawl	12	not applicable	not applicable	South Island	NZ fur seal	NZ fur seal: 1 reported trawl capture when targeting Hapuku in 2013	C/O,A/G, P		U.S. Trade Data	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Gurnard (Barracouta, Elephant fish, New Zealand sole, flatfish, John Dory, red cod, lemon sole, sand flounder, snapper, rig, giant stargazer, tarakihi, trevally, common warehou)	trawl	128	not applicable	not applicable	North and South Islands	Bottlenose dolphin Common dolphin NZ fur seal	Bottlenose dolphin: 1 reported trawl capture when targeting gurnard in 2014 Common dolphin: 1 reported trawl capture when targeting gurnard in 2011 NZ fur seal: 1 reported trawl capture when targeting gurnard in 2016; 42 estimated captures per year for all inshore trawl fisheries.	C/O,A/G, P		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Gurnard (Barracouta, Elephant fish, New Zealand sole, flatfish, John Dory, red cod, lemon sole, sand flounder, snapper, rig, giant stargazer, tarakihi, trevally, common warehou)	longline, bottom	11	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Gurnard (Barracouta, Elephant fish, New Zealand sole, flatfish, John Dory, red cod, lemon sole, sand flounder, snapper, rig, giant stargazer, tarakihi, trevally, common warehou)	Set net	5	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Hake (hoki, ling, white warehou)	longline, bottom	0	not applicable	not applicable	None provided	Marine mammal interactions indicated species not provided	None provided	C/O,A/G		There is no BLL fishery for hake. Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	
Hake (hoki, ling, white warehou)	trawl	20	not applicable	not applicable	West coast South Island, Sub-Antarctic, Chatham Rise	NZ Fur seal	NZ Fur seal - 11 p.a. (5 yr. avg estimate)	C/O,A/G, P			
Hoki (Barracouta, Alfonsino and Long-finned beryx, hake, ling, lookdown dory, orange roughy, redbait, red cod, scampi, gemfish, arrow squid, silver warehou, tarakihi, white warehou)	trawl	161	not applicable	not applicable	Cook Strait, Chatham Rise, Sub-Antarctic, West Coast South Island	NZ Sea lion NZ Fur seal Common dolphin Dusky dolphin	NZ Sea lion - <1 p.a. (5 yr. avg estimate) NZ Fur seal - 222 p.a. (5 yr. avg estimate) Common dolphin - 1 p.a. (5yr avg estimate) Dusky dolphin - 1 Observed in 2013	C/O,A/G, P		Estimated captures from statistical models based on observed captures and fishing effort for all except Dusky Dolphin. Information on methodology and estimates available at http://psc.dragonfly.co.nz	
Jack mackerel (barracouta, blue mackerel, gurnard, hoki, kahawai, pilchard, red bait, red cod, gemfish, arrow squid, silver warehou, tarakihi, warehou)	trawl	45	not applicable	not applicable	West coast South Island	NZ Fur Seal Common dolphin Pilot whale	NZ Fur seal - 6 p.a. (5 yr. avg estimate) Common dolphin - 27 p.a. (5 yr. avg estimate) Pilot whale - 5 observed in 2012	C/O,A/G, P		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz Pilot whale from MPI Observer data IWC, SC66a Report_Appendix L_Small Cetaceans, 2015 IWC Whale Fishery Bycatch Table	
Jack mackerel (barracouta, blue mackerel, gurnard, hoki, kahawai, pilchard, red bait, red cod, gemfish, arrow squid, silver warehou, tarakihi, warehou)	Purse seine	7	not applicable	not applicable	North Island	Common dolphin	Common dolphin: 3 reported captures when targeting jack mackerel in 2015	C/O,A/G, P		U.S. Trade Data	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
John Dory (flatfish, gurnard, John dory, snapper, tarakihi, trevally)	trawl	45	not applicable	not applicable	North Island	Bottlenose dolphin Common dolphin	Bottlenose dolphin: 1 reported trawl capture when targeting gurnard in 2011 Common dolphin: 1 reported trawl capture when targeting gurnard in 2011	C/O,A/G, P		U.S. Trade Data	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Kingfish, Yellowtail (Jack mackerel, snapper, tarakihi, trevally)	trawl	0	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Kingfish, Yellowtail (Jack mackerel, snapper, tarakihi, trevally)	longline, bottom	1	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Lemon sole (flatfish, gurnard, tarakihi)	trawl	Incl in flatfish	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Ling (barracouta, bluenose, flatfish, hake, hoki, hapuku and bass, lookdown dory, ling cod, red cod, southern blue whiting, scampi, gemfish, arrow squid, giant stargazer, silver warehou, tarakihi, warehou, white warehou)	trawl	76	not applicable	not applicable	West coast South Island, Sub-Antarctic	NZ Fur Seal	NZ Fur Seal - 15 p.a. (5 yr. avg estimate)	C/O,A/G,P		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	
Ling (barracouta, bluenose, flatfish, hake, hoki, hapuku and bass, lookdown dory, ling cod, red cod, southern blue whiting, scampi, gemfish, arrow squid, giant stargazer, silver warehou, tarakihi, warehou, white warehou)	longline, bottom	84	not applicable	not applicable	East North Island, west coast South Island, Chatham Rise	None Documented	None Documented	C/O,A/G	U.S. Trade Data	None observed/reported/ estimated	
Ling (barracouta, bluenose, flatfish, hake, hoki, hapuku and bass, lookdown dory, ling cod, red cod, southern blue whiting, scampi, gemfish, arrow squid, giant stargazer, silver warehou, tarakihi, warehou, white warehou)	pots	14	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data	None observed/reported/ estimated	
Moki (flatfish, gurnard, hapuku, school shark, rig, tarakihi, warehou)	Set net	19	not applicable	not applicable	South Island	NZ fur seal Dusky dolphin	NZ fur seal: 1 observed capture when targeting moki in 2010 Dusky dolphin: 2 observed captures when targeting moki in 2010	C/O,A/G, P	U.S. Trade Data	Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Moki (flatfish, gurnard, hapuku, school shark, rig, tarakihi, warehou)	trawl	17	not applicable	not applicable	South Island	NZ fur seal	NZ fur seal: 42 estimated captures per year for all Inshore trawl fisheries.	C/O,A/G, P	U.S. Trade Data	Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Monkfish (Stargazer) (flatfish, gurnard, tarakihi)	trawl	50	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data	None observed/reported/ estimated	
Mullet (grey mullet, kahawai)	Inshore drift net	5	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data	None observed/reported/ estimated	
Mullet (grey mullet, kahawai)	Set net	136	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data	None observed/reported/ estimated	
Mussels & other shellfish	aquaculture	not applicable	None provided	not applicable	Auckland, Bay of Plenty, Canterbury, Hawkes Bay, Marlborough, Northland, Southland, Tasman, Waikato, Wellington, Waikato, Westland	Bryde's whale Humpback whale	Bryde's whale: 1 reported incident in Auckland area in 1996 Humpback whale: 1 reported entanglement in Marlborough	A/G, P	U.S. Trade Data		
Orange Roughy (cardinal fish, hoki, smooth oreo)	trawl	16	not applicable	not applicable	NZ EEZ	NZ Fur Seal	NZ Fur seal - <1 p.a. (5 yr. avg estimate)(1 observed capture in 2015)	C/O,A/G, P		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	
Oreo Dory, Black (orange roughy, smooth oreo, hoki)	trawl	9	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	None observed/reported/ estimated
Oreo Dory, Smooth (black oreo dory, orange roughy, smooth oreo, hoki)	trawl	11	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	None observed/reported/ estimated

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Oysters	aquaculture	not applicable	None provided	not applicable	Auckland, Bay of Plenty, Marlborough, Northland, Southland, Waikato	Bottlenose dolphin	Bottlenose dolphin: 1 found in an oyster farm in 1998	A/G, P		U.S. Trade Data	
Rays & Skates (red cod, flatfish, tarakihi, gurnard)	trawl	8	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	
Rays & Skates (red cod, flatfish, tarakihi, gurnard)	longline, bottom	0	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	
Rock lobster	pots	61	not applicable	not applicable	North and South Islands	Humpback whale, Orca	Orca: 1 reported capture when targeting rock lobster in 2012	C/O,A/G, P		U.S. Trade Data	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Salmon	aquaculture	23	None provided	not applicable	Canterbury, Marlborough, Southland	Bottlenose dolphin Dusky dolphin Hector's dolphin NZ fur seals	Bottlenose dolphin: 2 reported incidents Dusky dolphin: 4 reported incidents Hector's dolphin: 2 reported incidents - one in 1987 and one in 2005 NZ fur seals: 10 reported incidents	C/O,A/G		U.S. Trade Data	Authorizations - This is the number of leases/licenses/permits/aquaculture decisions, not the number of actual farms. Particularly in the Marlborough Sounds a farm may be made up by several authorizations.
Sea Perch (barracouta, hoki, ling, red cod, scampi, arrow squid, silver warehou, tarakihi, tarakihi, white warehou)	trawl	15	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Sea Perch (barracouta, hoki, ling, red cod, scampi, arrow squid, silver warehou, tarakihi, tarakihi, white warehou)	longline, bottom	2	not applicable	not applicable	South Island	None Documented	None Documented	C/O,A/G		U.S. Trade Data	None observed/reported/ estimated
Shrimps and Prawns (royal red prawn, sabre prawn, echinoderms, omega prawn, tropical freshwater prawn, scarlet prawn)	trawl	1	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		U.S. Trade Data	
Snapper, Snapper chilled (barracouta, flatfish, gurnard, John dory, school shark, snapper, rig, tarakihi, trevally, warehou)	trawl	59	not applicable	not applicable	North and South Islands	Bottlenose dolphin Common dolphin NZ fur seal	Bottlenose dolphin: 1 reported trawl capture when targeting snapper in 2014 (North Island) Common dolphin: 49 estimated captures per year for all Inshore trawl fisheries NZ fur seal: 42 estimated captures per year for all Inshore trawl fisheries	C/O,A/G, P		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Snapper, Snapper chilled (barracouta, flatfish, gurnard, John dory, school shark, snapper, rig, tarakihi, trevally, warehou)	longline, bottom	51	not applicable	not applicable	North Island	Common dolphin Seals & sea lions	Common dolphin: 3 reported captures when targeting snapper between 2012 and 2014 Seals & sea lions: 1 reported capture (species unidentified) when targeting snapper in 2015	C/O,A/G, P		Estimated number of annual fatalities for Hector's dolphins in Inshore set net fisheries (not specific to target species) can be found in the Aquatic Environment and Biodiversity Annual report 2016: Hector's and Māui dolphins.	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Sole, New Zealand (flatfish, elephant fish, red cod, tarakihi, gurnard)	trawl	Incl in flatfish	not applicable	not applicable	None provided	None Documented	None Documented	C/O,A/G		Sole is captured under flatfish reporting	None observed/reported/ estimated
Spotted Dogfish (Rig) (elephant fish, flatfish, gurnard, John dory, red cod, school shark, snapper, rig, giant stargazer, tarakihi, trevally)	trawl	25	not applicable		North and South Islands	None Documented	None Documented observed capture when targeting rig in 2014 Dusky dolphin: 2 observed captures when targeting rig (one in 2006 and one in 2009); 3 reported captures when targeting rig between 2010 and 2015 NZ fur seal: 1 observed capture when targeting rig in 2009 Hector's dolphin: 32 estimated number of annual mortalities in all inshore set net fisheries; 4 observed captures when targeting rig between 2006 and 2013; 2 reported captures when targeting rig in 2012 Maui dolphin: 0.16 estimated number of annual mortalities in all inshore set net fisheries; 1 reported capture of a Hector's or Maui dolphin (subspecies unknown) when targeting rig in 2012	C/O,A/G		Sole is captured under flatfish reporting	None observed/reported/ estimated
Spotted Dogfish (Rig) (elephant fish, flatfish, gurnard, John dory, red cod, school shark, snapper, rig, giant stargazer, tarakihi, trevally)	Set net	133	not applicable	not applicable	North and South Islands	Common dolphin Dusky dolphin NZ fur seal Hector's dolphin Māui dolphin Baleen whales		C/O,A/G, P		Estimated number of annual fatalities for Hector's dolphins in Inshore set net fisheries (not specific to target species) can be found in the Aquatic Environment and Biodiversity Annual report 2016: Hector's and Māui dolphins.	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Squid (barracouta, hake, hoki, Jack mackerel, ling, redbait, red cod, scampi, arrow squid, silver warehou, tarakihi, white warehou)	trawl	74	not applicable	not applicable	Sub-Antarctic	NZ Sea lion NZ Fur seal	NZ Sea lion - NZ Fur seal - 19 p.a. (5 yr. avg estimate)	C/O,A/G, P		Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Swordfish (bigeye tuna, southern bluefin tuna)	longline, surface	31	not applicable	not applicable	North Island, west coast South Island	Bottlenose dolphin Common dolphin NZ fur seals Minke whale Seals & sea lions	Bottlenose dolphin: 1 reported capture in 2016 Common dolphin: 2 reported captures between 2014 and 2015 NZ fur seals: 14 reported captures between 2012 and 2017 Minke whale: 1 reported capture in 2015 Seals & sea lions: 5 reported captures (species unknown) between 2011 and 2015	C/O,A/G, P			
Tarakihi (barracouta, flatfish, gurnard, hapuku and bass, John dory, ling, red cod, school shark, gemfish, snapper, sea perch, giant stargaze, trevally, warehou)	trawl	142	not applicable	not applicable	North and South Islands	Common dolphin NZ fur seal Leopard seal Seals & sea lions	Common dolphin: 49 estimated captures per year for all Inshore trawl fisheries NZ fur seal: 42 estimated captures per year for all Inshore trawl fisheries Leopard seal: 1 reported trawl capture when targeting tarakihi in 2014	C/O,A/G, P	Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.	
Tarakihi (barracouta, flatfish, gurnard, hapuku and bass, John dory, ling, red cod, school shark, gemfish, snapper, sea perch, giant stargaze, trevally, warehou)	longline, bottom	17	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data	None observed/reported/ estimated	
Tarakihi (barracouta, flatfish, gurnard, hapuku and bass, John dory, ling, red cod, school shark, gemfish, snapper, sea perch, giant stargaze, trevally, warehou)	Set net	7	not applicable	not applicable	North and South Islands	Dusky dolphin NZ fur seal Hector's dolphin	Dusky dolphin: 1 reported capture when targeting tarakihi in 2014 NZ fur seal: 2 observed captures when targeting tarakihi (one in 2009, one in 2014) Hector's dolphin: 32 estimated number of annual mortalities in all inshore set net fisheries; 1 observed capture when targeting tarakihi in 2009	C/O,A/G, P	Estimated number of annual fatalities for Hector's dolphins in Inshore set net fisheries (not specific to target species) can be found in the Aquatic Environment and Biodiversity Annual report 2016: Hector's and Māui dolphins.	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.	
Trevally (Blue mackerel, gurnard, grey mullet, Jack Dory, Jack mackerel, Kahawai, snapper, rig, tarakihi)	trawl	46	not applicable	not applicable	North Island	Common dolphin NZ fur seal	Common dolphin: 3 reported captures when targeting trevally between 2010 and 2013 NZ fur seal: 42 estimated captures per year for all Inshore trawl fisheries	C/O,A/G	Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz	Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Trevally (Blue mackerel, gurnard, grey mullet, Jack Dory, Jack mackerel, Kahawai, snapper, rig, tarakihi)	Set net	36	not applicable	not applicable	North Island	Common dolphin NZ fur seal Seals & sea lions	NZ fur seal: 1 observed capture when targeting trevally in 2012	C/O,A/G	U.S. Trade Data		Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Trevally (Blue mackerel, gurnard, grey mullet, Jack Dory, Jack mackerel, Kahawai, snapper, rig, tarakihi)	Purse seine	4	not applicable	not applicable	North Island	None Documented	None Documented	C/O,A/G	U.S. Trade Data		None observed/reported/ estimated
Tuna Albacore	Troll	133	not applicable	not applicable	North [Dec-May]	NZ fur seal	NZ fur seal: 1 reported capture in 2015	C/O,A/G, P	U.S. Trade Data		
Tuna Bigeye	longline, surface	37	not applicable	not applicable	East coast North Island [all year]	Common dolphin NZ fur seals Pilot whale	Common dolphin: 4 reported captures since 2008 NZ fur seals: 2 reported captures since 2008 Pilot whale: 1 reported capture in 2009	C/O,A/G, P	U.S. Trade Data		
Tuna Pacific bluefin (BIG)	longline, surface	21	not applicable	not applicable	North [Mar-Sep]	None Documented	None Documented	C/O,A/G	U.S. Trade Data		
Tuna Skipjack	Purse seine	12	not applicable	not applicable	East coast North Island [Dec-May]	Common dolphin	Common dolphin: 4 reported captures between 2012 and 2017	C/O,A/G, P	U.S. Trade Data		
Tuna Southern bluefin (STN)	longline, surface	38	not applicable	not applicable	East coast North Island, West coast South Island [Mar-Oct]	Bottlenose dolphin Humpback whale Pilot whale NZ Fur seal	Bottlenose dolphin: 2 reported captures between 2011 and 2015 Humpback whale: 1 reported capture in 2014 Pilot whale: 1 reported capture in 2011 NZ Fur seal - 118 p.a. (5 yr. avg estimate)	C/O,A/G, P	Estimated captures from statistical models based on observed captures and fishing effort. Information on methodology and estimates available at http://psc.dragonfly.co.nz		
Tuna Yellowfin (BIG)	longline, surface	0	not applicable	not applicable	North [Dec-May]	None Documented	None Documented	C/O,A/G	U.S. Trade Data		
Warehou (barracouta, hake, hoki, Jack mackerel, ling, red cod, scampi, arrow squid, silver warehou, tarakihi, white warehou)	trawl	13	not applicable	not applicable	West coast North Island	Common dolphin NZ fur seals Hector's or Māui dolphin	Common dolphin: 4 observed captures when targeting warehou between 2013 and 2015 NZ fur seal: 8 observed captures when targeting warehou between 2012 and 2015 Hector's or Māui dolphin: 32 estimated number of annual Hector's dolphin mortalities in all inshore set net fisheries; 0.16 estimated number of annual Maui dolphin mortalities in all inshore set net fisheries	C/O,A/G,P	Estimated number of annual fatalities for Hector's dolphins in inshore set net fisheries (not specific to target species) can be found in the Aquatic Environment and Biodiversity Annual report 2016: Hector's and Māui dolphins.		Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.
Warehou (barracouta, hake, hoki, Jack mackerel, ling, red cod, scampi, arrow squid, silver warehou, tarakihi, white warehou)	trawl	61	not applicable	not applicable	South Island	NZ fur seals	NZ fur seals: 17 observed captures when targeting warehou between 2006 and 2015	C/O,A/G,P	U.S. Trade Data		Note: MPI does not have bycatch estimates for marine mammals based the target species/method. Where bycatch estimates from statistical models are not available on a method basis, information is provided on any reported or observed marine mammal interactions.

Export Fisheries with No Information

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Rock Oysters	None provided	0	None provided	None provided	none provided	N	None provided	N/I		U.S. Trade Data	
Nicaragua											
Exempt Fisheries											
coral, shells, cuttlebone	hand collection	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	A/G, N/I		U.S. Trade Database	
conch, sea cucumber, sea urchin	hand collection	6	None provided	None provided	Caribbean Coast	None provided	None provided	A/G, N/I		U.S. Trade Database; Nicaragua provided	
Crustaceans, Lobster, rock, crab	trap	70	Not applicable	Not applicable	Caribbean Coast	None provided	None provided	A/G, N/I		U.S. Trade Database; Nicaragua provided; http://www.searoundus.org/doc/publications/wp/2015/haas-et-al-nicaragua.pdf ; http://www.seafoodwatch.org/-/m/sfw/pdf/reports/l/mba_seafoodwatch_caribbeanspin_yobster_bahamas_belize_brazil_honduras_nicaragua_report.pdf	Some concern on IUU?, Analogous fishery is Caribbean spiny lobster trap/pot, Category III
Crustaceans, Lobster, rock, crab	scuba/casitas	70	Not applicable	Not applicable	Caribbean Coast	None provided	None provided	A/G, N/I		U.S. Trade Database; Nicaragua provided; http://www.searoundus.org/doc/publications/wp/2015/haas-et-al-nicaragua.pdf ; http://www.seafoodwatch.org/-/m/sfw/pdf/reports/l/mba_seafoodwatch_caribbeanspin_yobster_bahamas_belize_brazil_honduras_nicaragua_report.pdf	Some concern on IUU? Analogous fishery Atlantic Ocean, Gulf of Mexico, Caribbean shellfish dive, hand/mechanical collection
Crustaceans, Lobster, rock, crab Sea cucumber	scuba/casitas hand collection	70 6	Not applicable None provided	Not applicable None provided	Pacific Coast Pacific Coast	None provided None provided	None provided None provided	A/G A/G		U.S. Trade Database; Nicaragua provided	Some concern on IUU?
sea urchin	hand collection	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	N/I		U.S. Trade Database	bycatch of shrimp trawl fishery?
seaweed	hand collection, aquaculture	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	A/G, N/I		U.S. Trade Database	Seaweed fishery is mentioned in several sources but details on fishery were hard to find.
shrimp	Aquaculture	14,201 participants	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	A/G, N/I		U.S. Trade Database; http://www.fao.org/fishery/countrysector/naso_nicaragua/en	
Export Fisheries											
Crustaceans, Lobster, rock, crab	trap	70	Not applicable	Not applicable	Pacific Coast	None provided	None provided	A/G, N/I		U.S. Trade Database; http://www.searoundus.org/doc/publications/wp/2015/haas-et-al-nicaragua.pdf ; http://www.seafoodwatch.org/-/m/sfw/pdf/reports/l/mba_seafoodwatch_caribbeanspin_yobster_bahamas_belize_brazil_honduras_nicaragua_report.pdf	Some concern on IUU?
groundfish, lingcod, seabass, mackerel	trawl	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	A/G, N/I		U.S. Trade Database	
groundfish, lingcod, seabass, mackerel	gillnet	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	A/G, N/I		U.S. Trade Database	
molluscs	trawl	40*	Not applicable	Not applicable	Caribbean Sea	None provided	None provided	A/G, N/I		U.S. Trade Database; Nicaragua provided; Seas Around Us	*bycatch of shrimp trawl fishery. Unclear if there is also a targeted fishery or aquaculture
sardines, sprat	purse seine	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	A/G, N/I		U.S. Trade Database	
shrimp (snapper, mackerel, grouper)	trawl	40	None provided	None provided	Caribbean Sea	None provided	None provided	A/G, N/I		U.S. Trade Database; Nicaragua provided; http://www.searoundus.org/doc/publications/wp/2015/haas-et-al-nicaragua.pdf	snapper, grouper, mackerel are bycaught species in shrimp trawl fishery
shrimp (snapper, mackerel, grouper)	trawl	2	None provided	None provided	Pacific Ocean	None provided	None provided	A/G, N/I		U.S. Trade Database; Nicaragua provided; http://www.searoundus.org/doc/publications/wp/2015/haas-et-al-nicaragua.pdf	snapper, grouper, mackerel are bycaught species in shrimp trawl fishery

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna (albacore, yellowfin, bigeye, skipjack, dolphinfish, swordfish)	purse seine (less than 400 short tons)	None provided	None provided	None provided	Eastern Tropical Pacific, Inter-American Tropical Tuna Convention Area	Offshore spotted dolphin, Northeastern Western-southern Spinner dolphin, Eastern and Whitebelly, Common dolphin, northern, central, southern	None provided	A/G, N/I	IATTC/AIDCP	U.S. Trade Database; IATTC https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf ; IATTC RVR	Rule applies to vessels less than 400 short tons
Tuna (albacore, yellowfin, bigeye, skipjack), dolphinfish, swordfish, shark, snapper	longline	47	None provided	None provided	Eastern Tropical Pacific, Inter-American Tropical Tuna Convention Area	None provided	None provided	A/G, N/I	IATTC/AIDCP	U.S. Trade Database; IATTC https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf ; IATTC RVR	
Export Fisheries with No Information											
Flatfish (flounder, sole)	None provided	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	N/I		U.S. Trade Database	
octopus, squid (Loligo spp)	trap, pot	None provided	None provided	None provided	None provided	None provided	None provided	N/I		U.S. Trade Database	Octopus fishery is a large portion of country exports, but was difficult to find specific information describing fishery. Potentially SCUBA based.
octopus, squid (Loligo spp)	trawl	None provided	None provided	None provided	Caribbean Coast, Pacific Coast Nicaragua EEZ	None provided	None provided	N/I		U.S. Trade Database	Octopus fishery is a large portion of country exports, but was difficult to find specific information describing fishery. Potentially SCUBA based.
wolffish	None provided	None provided	Not applicable	Not applicable	Caribbean Coast, Pacific Coast Nicaragua EEZ	Not applicable	Not applicable	A/G, N/I		U.S. Trade Database; Nicaragua provided	freshwater
Nigeria											
Exempt Fisheries											
coral, shells, cuttlebone	hand collection	not applicable	not applicable	not applicable	Nigeria EEZ	none provided	none provided	A/G		U.S. Trade Data	
demersal fishes (drum, croaker, sole, threadfins, shark)	cast net	none provided	not applicable	not applicable	Nigeria EEZ	none provided	none provided	A/G		U.S. Trade Data	
shellfish (oysters)	hand collection	not applicable	not applicable	not applicable	Nigeria EEZ, Niger delta mangroves	none provided	none provided	A/G		U.S. Trade Data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_NG.pdf , http://agris.fao.org/agris-search/search.do?recordID=AV20120138242	
snail	hand collection	none provided	not applicable	not applicable	Nigeria EEZ	none provided	none provided	A/G		U.S. Trade Data	
Export Fisheries											
crustaceans (crab, rock lobster)	trap	70	not applicable	not applicable	Nigeria EEZ	none provided	none provided	N/I, A/G		U.S. Trade Data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_NG.pdf	
demersal fishes (drum, croaker, sole, threadfins, shark)	gillnet	none provided	not applicable	not applicable	Nigeria EEZ	none provided	none provided	A/G		ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_NG.pdf	
demersal fishes (drum, croaker, sole, threadfins, shark), horse mackerel, herring, sardine	trawl	160	not applicable	not applicable	Nigeria EEZ	none provided	none provided	A/G		http://www.searoundus.org/data/#/eez/566?chart=catc-h-chart&dimension=sector&measure=tonnage&limit=10 U.S. Trade Data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_NG.pdf , https://www.gpo.gov/fdsys/pkg/FR-2017-05-05/pdf/2017-09164.pdf	TED certified
shrimp	trawl	203	not applicable	not applicable	Nigeria EEZ	none provided	none provided	A/G		U.S. Trade Data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_NG.pdf	
shrimp	nets	203	not applicable	not applicable	Nigeria EEZ, delta gulf of Guinea	none provided	none provided	A/G		U.S. Trade Data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_NG.pdf	
Niue											
Exempt Fisheries											
tuna (yellowfin, bigeye, albacore)	hook and line (artisanal)	293	not applicable	not applicable	Niue EEZ	none provided	none provided	A/G		U.S. Trade Data, http://www.fao.org/fishery/facp/NIU/en	
tuna - yellowfin, bigeye, albacore	purse seine	none provided	none provided	none provided	Western Central Pacific Fisheries Commission Convention Area	none provided	none provided	A/G	WCPFC	FAO profile - http://www.fao.org/fi/oldsite/FCP/en/NIU/profile.htm WCPFC report (2015) - https://www.wcpfc.int/system/files/AR-CCM-17%20Niue%20AR%20Part%201%20Rev%201.pdf	FAO (2010) Niue Catch Profile: "US purse seine vessels are permitted under a multilateral treaty to fish in the Niue, but actual fishing in Niue waters by those vessels has not occurred in many years." - http://www.fao.org/fishery/facp/NIU/en
Export Fisheries											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (yellowfin, bigeye, albacore)	longline	allow 20-30 licensed vessel but 8 vessels documented in 2015	Niue Fish Processors Ltd (NFP), joint venture between the government of Niue and the private company, Reef Group (New Zealand)	none provided	Western Central Pacific Fisheries Commission Convention Area	none provided	none provided	A/G	WCPFC, SPC	U.S. Trade Data, FAO profile - http://www.fao.org/fi/oldsite/FCP/en/NIU/profile.htm WCPFC report (2015) - https://www.wcpfc.int/system/files/AR-CCM-17%20Niue%20AR%20Part%201%20Rev%201.pdf U.S. Trade Data, http://www.fao.org/fishery/facp/NIU/en	WCPFC, SPC. At the peak of the Niue Fishing Factory processing plant, 2010 was the best catch rate being recorded with the timeline of 3 months fished. At this stage only a few Long Line operators were engaged in the Fishery. The Fishing vessels were all Cook Island flagged and offloaded in American Samoa, with transshipment of all vessels at Niue designated port, with 100 percent observer coverage during transshipment. These vessels were flagged to Fiji, Cook Islands, United States and Taiwan.
tuna (yellowfin, bigeye, albacore)	gillnet (artisanal)	293	not applicable	not applicable	Niue EEZ	none provided	none provided	A/G			
Export Fisheries with No Information											
Greenland turbot	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	2016, 2017, suspect they are processing
Norway											
Exempt Fisheries											
toothfish	longline	1	not applicable	not applicable	Subarea 48.6	None Documented	None Documented	A/G		U.S. Trade Data	last active in 2007
toothfish	longline	1	not applicable	not applicable	Subarea 88.1-2	None Documented	None Documented	A/G		U.S. Trade Data	active
Demersal fish--cod, haddock, anglerfish, saithe (pollock)	Handline	1868	not applicable	not applicable	Norwegian EEZ--North of 62 degrees	None provided	Small or negligible	A/G		Norway's submission	
krill	trawl, midwater, midwater bream	2	not applicable	not applicable	Antarctic Peninsula Subareas 48.1-4	None Documented	None Documented	A, C/O, A/G	CCAMLR	U.S. Trade Data	active last reported bycatch 2009: 1 fur seal released, 2008: 1 fur seal killed
Tuna, bluefin	longline, purse seine	2	not applicable	not applicable	Norwegian EEZ--Entire country	None Documented	None Documented	A	ICCAT	U.S. Trade Data	Since 2014 no documented marine mammal bycatch
Demersal fish--cod, haddock, anglerfish, saithe (pollock)	Danish seines	342	not applicable	not applicable	Norwegian EEZ--North of 62 degrees	None Documented	None Documented	P, C/O, A/G		Norway's submission	355 hauls observed, no bycatch reported or observed in 2005
Export Fisheries											
Demersal fish--cod, haddock, anglerfish, saithe (pollock)	gillnet	2144	not applicable	not applicable	Norwegian EEZ--North of 62 degrees	Harbor porpoise seal	Harbor Grey Seal	Harbor porpoise--3,000 (PBR 2,144) Harbor seal--555 (PBR 463) Grey Seal--466 (PBR 351)	P, C/O, A/G	Norway's submission	All fisheries are obligated to report bycatch of marine mammals and to land all bycatch including marine mammals
Monkfish	gillnet	489	not applicable	not applicable	Norwegian EEZ--Entire country	Harbor porpoise seal	Harbor Grey Seal	Harbor porpoise--3,000 (PBR 2,144) Harbor seal--555 (PBR 463) Grey Seal--466 (PBR 351)	P, C/O, A/G	Norway's submission	
Demersal fish--cod, haddock, anglerfish, saithe (pollock)	longline	1322	not applicable	not applicable	Norwegian EEZ--North of 62 degrees	None Documented	None Documented	P, C/O, A/G		Norway's submission	920,400 hooks observed, no bycatch reported or observed in 2005
Cod, saithe, shrimp, Greenland halibut	trawl	46	Own by processing industry	not applicable	Norwegian EEZ--North of 62 degrees	None Documented	None Documented	P, C/O, A/G		Norway's submission	3,693 hours of trawling observed, no bycatch reported or observed in 2005
Demersal fish--cod, haddock, anglerfish, saithe (pollock)	purse seine		not applicable	not applicable	Norwegian EEZ--North of 62 degrees	None Documented	None Documented	P, C/O, A/G		Norway's submission	64 sets observed, no bycatch reported or observed in 2005
Salmon, Trout	aquaculture	990 licenses - 978 sites	None provided	not applicable	Norwegian EEZ--Entire country	Harbor seals	Gray seals	No bycatch report, Intentional mortality of seals is permitted and counted against hunt quotas	P (intentional killing)	Norway's submission	Any seal killed must be reported and is marked against the applicable quota for the hunt of coastal seals. Some facilities use acoustic deterrent devices. Nothing in law prohibits the intentional killing of marine mammals. Norway recommends these be exempt, but they must enact additional measures to stop the intentional mortality.
Herring, mackerel, anchovy	purse seine	477	not applicable	not applicable	Norwegian EEZ--Entire country	None Documented	None Documented	P, C/O, A/G		U.S. Trade Data	
Herring, mackerel, anchovy	trawl	48	not applicable	not applicable	Norwegian EEZ--Entire country	None Documented	None Documented	P, C/O, A/G		U.S. Trade Data	

Oman

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
dolphinfish	handline	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
seabream	aquaculture (cages)	1	none provided	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	N/I		U.S. Trade data, http://www.fao.org/fishery/countrysector/naso_oman/en	
small pelagic marine fish (sardine, seabream)	beach seine, cast net	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
shrimp	cast net	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
demersal fishes (groundfish, flatfish, snapper, grouper)	handline	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
tuna, albacore, yellowfin, bigeye	handline	18307	not applicable	none provided	none provided	spotted dolphin, long-beaked common dolphin	none provided	C/O	IOTC	MSRA: Anderson, R. C. (2014) Cetaceans and Tuna Fisheries in the Western and Central Indian Ocean.	artisanal and coastal fisheries
Export Fisheries											
cuttlefish, squid	trawl	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
dolphinfish	gillnet	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
dolphinfish	troll	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
rock, spiny lobster	traps	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
small pelagic marine fish (sardine, seabream)	gillnet	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
shrimp	trawl	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
demersal fishes (groundfish, flatfish, snapper, grouper, grunt, croaker, emperor, mullet)	trawl	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
demersal fishes (groundfish, flatfish, snapper, grouper)	gillnet	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
demersal fishes (groundfish, flatfish, snapper, grouper)	traps	23420	Oman Fisheries	not applicable	Oman Sea, Arabian Sea of Oman	none provided	none provided	A/G		U.S. Trade data, http://www.omanfisheries.com/about_us.htm , http://www.fao.org/fishery/facp/OMN/en	
tuna, albacore, yellowfin, bigeye	gillnet	18307	not applicable	none provided	none provided	spotted dolphin, long-beaked common dolphin, humpback whale	2,493 - 10,230	P, A/G	IOTC	MSRA: Anderson, R. C. (2014) Cetaceans and Tuna Fisheries in the Western and Central Indian Ocean.	artisanal and coastal fisheries
tuna, albacore, yellowfin, bigeye	troll	18307	not applicable	none provided	none provided	spotted dolphin, long-beaked common dolphin	none provided	C/O	IOTC	MSRA: Anderson, R. C. (2014) Cetaceans and Tuna Fisheries in the Western and Central Indian Ocean.	artisanal and coastal fisheries
tuna, albacore, yellowfin, bigeye, dolphinfish	longline	7	not applicable	none provided	none provided	none provided	none provided	A/G	IOTC	IOTC-2015-SC18-NR20_-_Oman.pdf, IOTC vessel registry list	Fishing for cetaceans is prohibited according to the Sultanate of Oman Marine fishing and living aquatic resources protection law and its executive regulations
Pakistan											
Exempt Fisheries											
cuttlefish	jig , handline	500	not applicable	not applicable	Pakistan EEZ (offshore), Arabian Sea (FAO area 51)	None documented	None documented	N/I, A/G		U.S. Trade data. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
shrimp	cast-nets, entangle nets, barrier traps	3500	not applicable	not applicable	Balochistan coast and Indus delta, and shelf area	None documented	None documented	N/I, A/G		U.S. Trade data. Pakistan submission.	
Export Fisheries											
crab - swimming and mud crabs	pots, traps	1500	not applicable	not applicable	Continental shelf of Pakistan. Arabian Sea (FAO area 51)	no information	no information	N/I, A/G		U.S. Trade data. FAO (2009) Country profile: ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_PK.pdf	
finfish, lobster, squid	trawl	2640	not applicable	not applicable	Pakistan EEZ up to 200 meters, Arabian Sea (FAO area 51)	no information	no information	N/I		U.S. Trade data. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat	
grouper, snapper, grunter, jew fish, croaker, ribbonfish, pomfrets, butterflyfish, lobster, other demersal fish species	gillnet (ruch), mid-water and bottom	5000	not applicable	not applicable	Sindh & Balochistan maritime provinces, Arabian Sea (FAO area 51)	Finless porpoises and Irrawaddy dolphins, Indian humpback, spinner, striped, and bottlenose dolphins, other cetaceans	200 annually	N/I, A/G, P		U.S. Trade data. Pakistan submission. World bycatch of Cetaceans, NOAA, 2007	The deployment of observers on fishing boats is being made in different batches In addition to collection of the fishery data about tuna and bycatch species, these observers since inception have successfully released 32 Whale Sharks, 14 Manta Rays, 1 Longman's beaked whale, 1 guitarfish, 2 bottlenose dolphins, and thousands of sea turtles. in Umair Shahid et al. (2016) at: https://arabianseawhalenetworkdotorg.files.wordpress.com/2017/02/iotc-2016-wpeb12_inf1_1_.pdf
mackerel, swordfish, sailfish, shark, billfish, marlin, barracuda, and pelagic species	gillnet	700	not applicable	not applicable	Pakistan EEZ (Offshore). Arabian Sea (FAO area 51) off shore waters	Finless porpoises and Irrawaddy dolphins, Indian humpback, spinner, striped, and bottlenose dolphins, other cetaceans	300 annually	A/G		U.S. Trade data. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat. NOAA Cetacean Bycatch Tech Memo (2007).	
mackerel, swordfish, sailfish, shark, billfish, marlin, barracuda, pelagic species	longline, non-mechanized	300	not applicable	not applicable	Balochistan (offshore)	none provided	none provided	A/G		U.S. Trade data. Pakistan submission. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat	Pakistan submission for all fisheries. Draft notification is prepared for the protection of catching dolphin, turtle and other mammals which is under approval process in Law & Justice Division." And for Balichostan province: "Notification No.SO (COORD)/FISH/2-1/2013/3148-54 dated
marine fish, croaker, eel, flatfish, sole, mullet, promfrets, butterflyfish, lobster	gillnet	2000 - 3000	not applicable	not applicable	Maritime provinces Sindh & Balochistan. Arabian Sea (FAO area 51)	Finless porpoises and Irrawaddy dolphins, Indian humpback, spinner, striped, and bottlenose dolphins, other cetaceans	300 annually	N/I		U.S. Trade data	Marine fish is the product name at importation, species is not identified.
sardines/sardinella, anchovies, fishmeal	encircling nets (katra)	2000	not applicable	not applicable	Maritime provinces Sindh & Balochistan. Arabian Sea (FAO area 51)	finless porpoise	no information	N/I		U.S. Trade data. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat. NOAA Cetacean Bycatch Tech Memo (2007).	
shrimp	trawl	2,300	not applicable	not applicable	Sindh coast, Arabian Sea (FAO area 51)	finless porpoise and other cetaceans	no information	A/G		U.S. Trade data. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat. FAO (2009) Country profile: ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_PK.pdf NOAA Cetacean Bycatch Tech Memo (2007).	
shrimp	bottom set net (tukri)	2000	not applicable	not applicable	Maritime provinces Sindh & Balochistan. Arabian Sea (FAO area 51)	finless porpoise	no information	N/I, A/G		U.S. Trade data. FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat. NOAA Cetacean Bycatch Tech Memo (2007).	
tuna, billfish, dolphinfish, barracuda, mackerel	gillnet - mid-water and bottom	700	not applicable	not applicable	Maritime provinces Sindh & Balochistan. Arabian Sea (FAO area 51)	Spinner, pantropical spotted, striped, and bottlenose dolphins; blue, Bryde's, dwarf sperm, sei, and Arabian humpback whales	7,300 - 30,000 dolphins/yr.; 1-2 whales/yr.	P		IOTC national report. Moazzam and Nawaz (2014) By-catch of tuna gillnet fisheries of Pakistan (https://www.researchgate.net/publication/283515916). Anderson, R. C. (2014) Cetaceans and Tuna Fisheries in the Western and Central Indian Ocean.	MSRA. Pakistan does not export tuna directly to U.S., however, it may be imported through an intermediary country.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, dolphinfish	longline	10 (2 Korean, and 3 Chinese out of 10)	not applicable	not applicable	Indian Ocean	none provided	none provided	A/G	No vessel permitted since 2009	FAO (2003) Fishing Capacity and Fisheries in Pakistan by M. Hayat. http://www.worldfishing.net/news101/regional-focus/pakistan	MSRA. Pakistan does not export tuna directly to U.S., however, it may be imported through an intermediary country.
Export Fisheries with No Information											
molluscs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
Palau											
Exempt Fisheries											
coral, cuttlebone, shellfish, trochus	diving	none provided	none provided	none provided	lagoons and outer reef slopes of Palau	none provided	none provided	A/G, N/I		U.S. Trade data, http://www.fao.org/docrep/005/ac682e/ac682e06.htm	
tuna, yellowfin, bigeye	pole and line	1	not applicable	not applicable	Palau EEZ	none provided	none provided	A/G		CEA (2015) Palau Fisheries 2015 Review - https://www.packard.org/wp-content/uploads/2016/09/Palau-Fisheries-2015-Review.pdf	
pelagic fish	hand-collection to hook-and-line fishing, underwater spear-fishing, net fishing and trolling	800	none provided	none provided	none provided	none provided	none provided	A/G, N/I		U.S. Trade data	
tuna, yellowfin, bigeye	purse seine	5	not applicable	not applicable	Palau EEZ	none provided	none provided	A/G		WCPFC (2014) Palau Annual Report. CEA (2015) Palau Fisheries 2015 Review - https://www.packard.org/wp-content/uploads/2016/09/Palau-Fisheries-2015-Review.pdf	Palau's National Marine Sanctuary, signed into law on October 28, 2015, will protect 80% of Palau's EEZ. By 2020, all extractive activities will be prohibited on the reserve's 500,000 Km sq., while fishing in the remaining 20% of Palau's EEZ will be restricted to domestic fishing and a few small commercial operations. The Palau National Marine Sanctuary excludes opportunities for the foreign long line fishery.
Export Fisheries											
clam, white, giant clam,	none provided	none provided	none provided	none provided	none provided	none provided	none provided	A/G, N/I		U.S. Trade data 2000-2017; https://www.packard.org/wp-content/uploads/2016/09/Palau-Fisheries-2015-Review.pdf ; http://www.fao.org/docrep/005/ac682e/ac682e06.htm	While Giant Clam is solely an aquaculture fishery in Palau, it is unlikely this is what this clam NSPF is (frozen/dried/salted/brine). Giant Clam is usually for seeding and aquarium trade. Was unable to find information on a clam fishery; possibly this is an intermediary item.
tuna, yellowfin, bigeye	longline	85 (maybe 0 by 2021)	not applicable	not applicable	Palau EEZ	toothed whale	1 (2009)	A/G, P		WCPFC (2014) Palau Annual Report. CEA (2015) Palau Fisheries 2015 Review - https://www.packard.org/wp-content/uploads/2016/09/Palau-Fisheries-2015-Review.pdf	Palau's National Marine Sanctuary, signed into law on October 28, 2015, will protect 80% of Palau's EEZ. By 2020, all extractive activities will be prohibited on the reserve's 500,000 Km sq., while fishing in the remaining 20% of Palau's EEZ will be restricted to domestic fishing and a few small commercial operations. The Palau National Marine Sanctuary excludes opportunities for the foreign long line fishery.
Panama											
Exempt Fisheries											
Lobster	Diving	300-400 divers	Not applicable	Not applicable	Caribbean Sea	Sperm whale, killer whale, Pantropical spotted dolphin, Atlantic spotted dolphin	None Documented	A/G	National Laws	U.S. Trade Data	
Cobia	Aquaculture (offshore)	20-40 Submersible Sea stations 884 hectares	Openblue	Not applicable	Caribbean Sea	Sperm Whale, Killer Whale, Pantropical Spotted Dolphin, Atlantic Spotted Dolphin	None Documented	A/G		See letters from scientists with marine mammal observations and distributions	Blue Ocean is similar to the Hawaiian kampachi aquaculture facility which is a Category III fishery in the 2017 List of Fisheries
Export Fisheries											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tuna (yellowfin, skipjack, bigeye)	purse seine	3	Not applicable	Not applicable	Atlantic Ocean International Convention for the Conservation of Atlantic Tuna Convention Area	None Documented	None Documented	A/G, N/I	ICCAT, National Laws	U.S. Trade Data	until 2010: Marine mammals are priority species for which no data are submitted to ICCAT, there is not available estimations for panamanian fleet. https://www.iccat.int/Documents/ByCatch/FinalReport-20100707.pdf NOTE: Rule does not apply to vessels with DML, only to those vessels without DML < 400 short tons. The fleet operates with a mortality limit assigned by the RFMO (IATTC), and has a observers program. The interaction is known and there are measures and maneuvers of release "Back-down"
Tuna (yellowfin, skipjack, bigeye)	purse seine	17	Not applicable	Not applicable	Pacific (outside EEZ), FAO zone 77, 87	None provided (for < 400 tons)	None provided (for < 400 tons)	A/G, P	IATTC/AIDCP		
Shrimp	trawl	91	Not applicable	Not applicable	Gulf of Panama and Pacific Ocean	None Provided	None Provided	A/G, N/I	National Laws	U.S. Trade Data	
Coastal fisheries including flatfish, flounder, snapper	trawl	43	Not applicable	Not applicable	Gulf of Panama and Pacific Ocean	None Provided	None Provided	A/G, N/I	National Laws	U.S. Trade Data	
Large pelagics, including swordfish, dolphinfish	longline, surface	36	Not applicable	Not applicable	Atlantic (outside EEZ) FAO areas 31, 34, 41, 47	None Documented	None Documented	A/G, N/I	ICCAT, National Laws	U.S. Trade Data	until 2010: Marine mammals are priority species for which no data are submitted to ICCAT, there is not available estimations for panamanian fleet. https://www.iccat.int/Documents/ByCatch/FinalReport-20100707.pdf
Large pelagics, including swordfish, dolphinfish	longline, surface	29	Not applicable	Not applicable	Pacific (outside EEZ) Eastern central and southeast Pacific (FAO areas 77, 87) Inter-American Tropical Tuna Convention Area	None Documented	None Documented	A/G, N/I	IATTC, National Laws	U.S. Trade Data	
Large pelagics, demersal fish including grouper, snapper, shark	longline, bottom	56	Not applicable	Not applicable	Gulf of Panama and Pacific Ocean	None Documented	None Documented	A/G, N/I	National Laws	U.S. Trade Data	
Coastal fisheries including, corvina, mackerel (Jack, Horse)	gillnet	4244	Not applicable	Not applicable	Panama EEZ, Pacific	None Documented	None Documented	A/G, N/I	National Laws	U.S. Trade Data	
Corvina, Mackerel (Jack, Horse), Jacks	purse seine	5	Not applicable	Not applicable	Panama EEZ, Pacific	None Documented	None Documented	A/G, N/I	National Laws	U.S. Trade Data	
Forage fish	purse seine	20	Not applicable	Not applicable	Panama EEZ, Pacific	None Documented	None Documented	A/G, N/I	National Laws	U.S. Trade Data	
Lobster	gillnet	33	Not applicable	Not applicable	Panama EEZ, Pacific	None Documented	None Documented	A/G, N/I	National Laws	U.S. Trade Data	
shrimp	gillnet	348	Not applicable	Not applicable	Panama EEZ, Pacific	None Documented	None Documented	A/G, N/I	National Laws	U.S. Trade Data	

Papua New Guinea

Exempt Fisheries											
rock lobster	hand collection by divers	>500 divers	not applicable	not applicable	Torres Strait	none provided	none provided	A/G		U.S. Trade data, http://www.fisheries.gov.pg/FisheriesIndustry/PrawnandLobster/tabid/105/Default.aspx	Bilateral agreement with Australia to share the catch
molluscs	hand collection	not applicable	not applicable	not applicable	PNG EEZ	none provided	none provided	A/G		U.S. Trade data, http://www.fao.org/fishery/facp/PNG/en	
tuna	handline	5	not applicable	not applicable	Madang and Morobe provinces (PNG EEZ)	none provided	none provided	A/G	WCPFC	WCPFC (2015, 2016) Annual Report to the Commission by Papua New Guinea, http://www.searoundus.org/doc/publications/wp/2014/Teh-et-al-Papua-New-Guinea.pdf	
Export Fisheries											
molluscs	trawl, bottom	none provided	not applicable	not applicable	PNG EEZ	none provided	none provided	A/G		U.S. Trade data, http://www.fao.org/fishery/facp/PNG/en	
mackerel, sardine, and other finfish	trawl	19	not applicable	not applicable	of southern PNG, Torres Strait	none provided	none provided	A/G		U.S. Trade data, National_Report_PNG.pdf	
tuna (yellowfin), billfishes (marlin, swordfish)	longline	20	not applicable	not applicable	PNG EEZ	none provided	none provided	C/O, A/G	WCPFC	WCPFC (2015, 2016) Annual Report to the Commission by Papua New Guinea, http://www.searoundus.org/doc/publications/wp/2014/Teh-et-al-Papua-New-Guinea.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (skipjack, yellowfin, bigeye)	purse seine	53	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area and PNG EEZ	spotted dolphin, bottlenose dolphin, Fraser's dolphin, false killer whale, minke whale, rough-toothed dolphin, spinner dolphin	2 spotted dolphin, 191 bottlenose dolphin, 6 Fraser's dolphin, 23 false killer whale, 1 minke whale, 6 rough-toothed dolphin, 31 spinner dolphin	P, A/G	WCPFC	WCPFC (2015, 2016) Annual Report to the Commission by Papua New Guinea	
tuna (skipjack, yellowfin, bigeye)	purse seine	53	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area, Kiribati EEZ	rough-toothed dolphin	56	P, A/G	WCPFC	WCPFC (2016) Annual Report to the Commission by Papua New Guinea	
tuna (skipjack, yellowfin, bigeye)	purse seine	53	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area, Nauru EEZ	false killer whale, bottlenose dolphin	8 false killer whale, 21 bottlenose dolphin	P, A/G	WCPFC	WCPFC (2015, 2016) Annual Report to the Commission by Papua New Guinea	
tuna (skipjack, yellowfin, bigeye)	purse seine	53	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area, international waters	sperm whale	1	P, A/G	WCPFC	WCPFC (2016) Annual Report to the Commission by Papua New Guinea	
tuna (skipjack, yellowfin, bigeye)	purse seine	53	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area, Federated States of Micronesia EEZ	rough-toothed dolphin	5	P, A/G	WCPFC	WCPFC (2015) Annual Report to the Commission by Papua New Guinea	

Peru

Exempt Fisheries

Punctuated snake-eel	hook and line (espinel), handline, trap	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily northern provinces Tumbes-La Libertad	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3 and 6)	
Yellowfin tuna	hook and line (espinel) and handline	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces, 4-5 vessels on high seas	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G	IATTC, AIDCP	Peru provided (Annex 3)	
Patagonian toothfish	hook and line (espinel), handline, and trap	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura, Ancash, La Libertad, Arequipa	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3 & 6)	
mackerel (horse/jack)	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annexes 3 & 6)	
Squid, cuttlefish (Doryteuthis gahi)	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Tumbes-Arequipa	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided; 2015-2016 import trade data	
crab (hairy, purple)	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Chocolate rock shell (snail spp.)	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Chilean abalone	diving	none provided	not applicable	not applicable	July-Sept, Jan-March; Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Chiri - Pacific harvestfish	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces north of Lima	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	identified as the source for exports of butterfish
Peruvian scallop	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Chilean sea urchin	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces south of Lima	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Shrimp	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily Piura and Tumbes	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Hake	hook and line (espinel)	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash and north	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annexes 3 & 6)	
Hake	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash and north	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annexes 3 & 6)	
Starry grouper	diving, hook and line (espinel), and handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura and Tumbes	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Clam razor	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash, Ica, Piura	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
flying fish roe	mats	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces Ica and south	none provided	none provided	N/I		Peru provided (Annex 3)	reference on flying fish roe mats - http://www.google.com/url?q=http%3A%2F%2Fwww.seaturtle.org%2Fmntn%2Farchives%2Fmntn143%2Fmntn143-4.shtml&sa=D&szntz=1&usg=AFQjCNEohVurK1VvfeWa9DIByvM3ppyQnQ
Peruvian silverside/smelt	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3); 2015-2016 import trade data	Peru notes that silverside is the same as smelt in exports
Sea cucumber	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
dolphinfish	hook and line (espinel) and handline (pinta)		not applicable	not applicable	Oct-April; Artisanal: Peru EEZ all provinces and on high seas	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3 & 6)	extraction of the dolphinfish is generally performed by the non-industrial fleet, mainly with the use of surface longline, and occasionally with purse seine. For industrial fishing, only 2 large-scale vessels are reported

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Humboldt squid	handline (pinta)	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces and on high seas	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Octopus	diving	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	A/G		Peru provided (Annex 3)	
shark, blue, shortfin mako, hammerhead	hook and line (espinel)	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces and on high seas	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
scallops	Aquaculture	301	none provided	not applicable	coastal - (provinces Ancash, Piura, Arequipa, Ica, La Libertad, Monquegua, Tacna, Tumbes, El Callao)	no information	no information	A/G		2015-2016 import trade data; Peru provided	unclear whether any marine mammal species are in these areas - not certain how close to the coast these facilities are
shrimp	Aquaculture	83	none provided	not applicable	coastal - (provinces Piura, Tumbes)	no information	no information	A/G		2015-2016 import trade data; Peru provided	unclear whether any marine mammal species are in these areas - not certain how close to the coast these facilities are
eels (general)	eel trap	commercial small scale (18 vessels)	none provided	none provided	none provided	none provided	none provided	A/G		2015-2016 import trade data; Peru provided	
Export Fisheries											
Peruvian anchoveta, sardines	purse seine	commercial large scale (872)	not applicable	not applicable	May-July, Nov-Jan Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, common dolphin, long-beaked common dolphin, dusky dolphin, bottlenose dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	IWC, CPPS, CMS, CBD	Peru provided (Annexes 3 & 6)	Mesh size: purse seine of 13 mm long mesh Around 9% of the interaction events resulted in bycatch, ranging from 1 to 12 individuals captured per set. 93% of the captures occurred in sets that lasted between 1.18 to 2.93 hours. When cetaceans were captured estimated dolphin school size varied from 12 to 300 individuals. A capture rate per set for each month of 0 to 0.11 (average = 0.041; SD = 0.037) dolphins was estimated, with the highest capture rate in January. Since fishing trips could total around 80000 a year, cetacean captures could potentially reach considerable numbers.
Peruvian anchoveta, sardines	purse seine	commercial small scale (196-205)	not applicable	not applicable	May-July, Nov-Jan Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, common dolphin, long-beaked common dolphin, dusky dolphin, bottlenose dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	IWC, CPPS, CMS, CBD	Peru provided (Annexes 3 & 6)	Mesh size: purse seine of 13 mm long mesh Around 9% of the interaction events resulted in bycatch, ranging from 1 to 12 individuals captured per set. 93% of the captures occurred in sets that lasted between 1.18 to 2.93 hours. When cetaceans were captured estimated dolphin school size varied from 12 to 300 individuals. A capture rate per set for each month of 0 to 0.11 (average = 0.041; SD = 0.037) dolphins was estimated, with the highest capture rate in January. Since fishing trips could total around 80000 a year, cetacean captures could potentially reach considerable numbers.
Peruvian anchoveta, sardines	gillnet	none provided	not applicable	not applicable	May-July, Nov-Jan Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	IWC, CPPS, CMS, CBD	Peru provided (Annexes 3 & 6)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
Yellowfin tuna	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces, 4-5 vessels on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	IATTC, AIDCP	Peru provided (Annex 3)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
Yellowfin tuna	trolling	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces, 4-5 vessels on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	IATTC, AIDCP	Peru provided (Annex 3)	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Yellowfin tuna, albacore, bluefin	longline	longline (11)	not applicable	not applicable	Artisanal: Peru EEZ all provinces, 4-5 vessels on high seas, Eastern Tropical Pacific Ocean, Inter-American Tuna Convention Area	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	IATTC, AIDCP	Peru provided (Annex 6) https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf	longline with selective hooks
tuna, yellowfin, skipjack, bigeye	purse seine	7 < 363 MT	not applicable	not applicable	Eastern Tropical Pacific Ocean, Inter-American Tuna Convention Area	Offshore spotted dolphin, Northeastern Western-southern Spinner dolphin, Eastern and Whitebelly, Common dolphin, northern, central, southern	none provided	A/G, N/I, C/O	IATTC	https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf	
Patagonian toothfish	longline	commercial small scale (15)	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura, Ancash, La Libertad, Arequipa	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3 & 6)	
Patagonian toothfish	trot line	commercial small scale (6)	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura, Ancash, La Libertad, Arequipa	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3 & 5)	
Patagonian toothfish	troll	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura, Ancash, La Libertad, Arequipa	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 6)	
Mackerel (general)	purse seine	commercial large scale (121)	not applicable	not applicable	Artisanal: Peru EEZ all provinces Industrial: outside the 10 nautical miles from the coast	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3, 5 & 6)	Purse seine of 38 mm-long meshes, with a minimum extraction size of 29 cm of fork length (equivalent to 32 cm of total length)
mackerel (horse/jack)	purse seine	commercial large scale purse seine (113); small scale purse seine (21)	not applicable	not applicable	Artisanal: Peru EEZ all provinces Industrial: outside the 10 nautical miles from the coast	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3,5 & 6)	Use of purse seine of 38 mm-long meshes, with a minimum extraction size of 31 cm of total length
mackerel (horse/jack)	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3 & 6)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
mackerel (horse/jack)	trawl, midwater/bottom	commercial large scale (4); commercial small scale (13)	not applicable	not applicable	Artisanal: Peru EEZ all provinces Industrial: outside the 10 nautical miles from the coast	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3 & 6)	Mid-water trawl nets of 76 mm cod end, with a minimum extraction size of 31 cm of total length
Punctuated snake-eel	purse seine	commercial large scale purse seine (13)	not applicable	not applicable	Artisanal: Peru EEZ all provinces, 4-5 vessels on high seas Industrial: outside the 10 nautical miles from the north to the south of the Peruvian maritime domain, and in international waters	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3 & 6)	Purse seine with a mesh opening of 110 mm, which needs to have protective panels for dolphins, duly "alienated," as well as other mechanisms that prevent damage to marine mammals, in accordance with number 2 of Annex VII of the Agreement on the International Dolphin Conservation Program (AIDCP.)
Squid, cuttlefish (Doryteuthis gahi)	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Tumbes-Arequipa	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided; 2015-2016 import trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Squid, cuttlefish (Doryteuthis gahi)	net	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Tumbes-Arequipa	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided; 2015-2016 import trade data	
crab (hairy, purple)	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
crab (hairy, purple)	driftnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	
crab (hairy, purple)	trap	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3)	
Chiri - Pacific harvestfish	trawl, bottom	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces north of Lima	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	identified as the source for exports of butterfish
Chiri - Pacific harvestfish	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces north of Lima	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	identified as the source for exports of butterfish
Chiri - Pacific harvestfish	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces north of Lima	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	identified as the source for exports of butterfish, gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
Chiri - Pacific harvestfish	driftnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces north of Lima	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	identified as the source for exports of butterfish
Shrimp	trawl, bottom	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	
Shrimp	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	
Shrimp	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
Shrimp	driftnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	
Hake	trawl, bottom	commercial large scale trawl net (36); commercial small scale trawl net (33); demersal trawl (48)	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash and north Industrial: 5-10 nautical miles onwards	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 5 & 6)	Demersal trawl with 110 mm meshes, with a minimum extraction size of 35 cm of total length. NOTE: trawl vessel numbers are not consistent

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Hake	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash and north Industrial: 5-10 nautical miles onwards	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3 & 6)	
Hake	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash and north	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annexes 3 & 6)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
Hake	trot line/setline	commercial small scale (9)	not applicable	not applicable	Artisanal: Peru EEZ provinces Ancash and north	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annexes 3 & 6)	
Starry grouper	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	
Starry grouper	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
Starry grouper	driftnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura and Tumbes	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	
Peruvian silverside/smelt	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3); 2015-2016 import trade data	Peru notes that silverside is the same as smelt in exports
Peruvian silverside/smelt	net	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	C/O, A/G		Peru provided (Annex 3); 2015-2016 import trade data	Peru notes that silverside is the same as smelt in exports
Peruvian silverside/smelt	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3); 2015-2016 import trade data	Peru notes that silverside is the same as smelt in exports, gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
dolphinfish	purse seine	Industrial: (2)	not applicable	not applicable	Oct-April; Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3 & 6)	extraction of the dolphinfish is generally performed by the non-industrial fleet, mainly with the use of surface longline, and occasionally with purse seine. For industrial fishing, only 2 large-scale vessels are reported
dolphinfish	gillnet		not applicable	not applicable	Oct-April; Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3 & 6)	extraction of the dolphinfish is generally performed by the non-industrial fleet, mainly with the use of surface longline, and occasionally with purse seine. For industrial fishing, only 2 large-scale vessels are reported
dolphinfish	longline, surface	Industrial: (2)	not applicable	not applicable	Oct-April; Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3 & 6)	extraction of the dolphinfish is generally performed by the non-industrial fleet, mainly with the use of surface longline, and occasionally with purse seine. For industrial fishing, only 2 large-scale vessels are reported
Humboldt squid	purse seine	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G		Peru provided (Annex 3)	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
shark, blue, shortfin mako, hammerhead	gillnet	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	long-beaked common dolphin 973 (541–1550) dusky dolphin 818 (195–1961) bottlenose dolphins 259 (136–383) Burmeister's porpoise 205 (105–699) Bycatch numbers given but not specific to fishery.	P, A/G	Peru provided (Annex 3)		gillnets also entangle humpback, sperm and minke whales (Garcia-Godos et. al Pacific Science (2013), vol. 67, no. 4:523 – 532)
shark, blue, shortfin mako, hammerhead	longline	none provided	not applicable	not applicable	April-Dec; Artisanal: Peru EEZ all provinces and on high seas	Short-beaked common dolphins	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	Peru provided (Annex 3)		small cetaceans including common dolphins and dusky dolphins are intentionally killed for bait
Hammerhead shark	purse seine	none provided	not applicable	not applicable	April-Dec; Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, South American fur seal	Bycatch numbers given but not specific to fishery. Please see note at top of comments for references.	P, A/G	Peru provided (Annex 3)		
shark, blue, shortfin mako, hammerhead, thresher, angel, rays, bonito, dolphinfish	driftnet	none provided	not applicable	not applicable	April-Dec; Artisanal: Peru EEZ all provinces and on high seas	South American sea lion, Burmeister's porpoise, long-beaked common dolphin, dusky dolphin, bottlenose dolphin, South American fur seal	common dolphins (n = 45), dusky dolphins Lagenorhynchus obscurus (n = 20), bottlenose dolphins (n = 25), Burmeister's porpoises Phocoena spinipinnis (n = 8) and pilot whales (n = 2) Bycatch numbers given but not specific to fishery.	P, A/G	Peru provided (Annex 3), Mangel et. al. Using Pingers to reduce bycatch of small cetaceans in Peru's small-scale driftnet fishery		23 common dolphins and two dusky dolphins were observed to be harpooned, for use as bait on subsequent sets. This typically occurred as vessels were travelling to the fishing ground prior to the first fishing set. Harpooning was infrequent, occurring on 10 trips (11%) and with 1–4 individuals per event and only on trips primarily targeting blue and mako sharks. Twenty common dolphins were harpooned during seven trips that used pingers and two dusky dolphins and three common dolphins were harpooned during three control trips.
Export Fisheries with No Information											
Yellowfin tuna	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces, 4-5 vessels on high seas	none provided	none provided	N/I	IATTC, AIDCP	Peru provided (Annex 3)	
Mackerel (general)	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	none provided	N/I		Peru provided (Annexes 3 & 6)	
Squid, cuttlefish (Doryteuthis gahi)	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces Tumbes-Arequipa	none provided	none provided	N/I		Peru provided; 2015-2016 import trade data	
crab (hairy, purple)	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces July-Sept, Jan-March;	none provided	none provided	N/I		Peru provided (Annex 3)	
Chilean abalone	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces May-July, Nov-Jan;	none provided	none provided	N/I		Peru provided (Annex 3)	
Peruvian anchoveta, sardines	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces primarily northern provinces Tumbes-La Libertad	none provided	none provided	N/I	IWC, CPPS, CMS, CBD	Peru provided (Annexes 3 & 6)	
Punctuated snake-eel	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ primarily provinces north of Lima	none provided	none provided	N/I		Peru provided (Annex 3)	
Chiri - Pacific harvestfish	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces primarily Piura and Tumbes	none provided	none provided	N/I		Peru provided (Annex 3)	identified as the source for exports of butterfish
Peruvian scallop	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces north	none provided	none provided	N/I		Peru provided (Annex 3)	
Shrimp	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces Ancash and north	none provided	none provided	N/I		Peru provided (Annex 3)	
Hake	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	none provided	N/I		Peru provided (Annexes 3 & 6)	
Sea cucumber	other	none provided	not applicable	not applicable				N/I		Peru provided (Annex 3)	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Starry grouper	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ provinces Piura and Tumbes	none provided	none provided	N/I		Peru provided (Annex 3)	
dolphinfish	other		not applicable	not applicable	Oct-April: Artisanal: Peru EEZ all provinces and on high seas Artisanal: Peru EEZ all provinces and on high seas	none provided	none provided	N/I		Peru provided (Annex 3 & 6)	extraction of the dolphinfish is generally performed by the non-industrial fleet, mainly with the use of surface longline, and occasionally with purse seine. For industrial fishing, only 2 large-scale vessels are reported
Humboldt squid	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	none provided	N/I		Peru provided (Annex 3)	
Octopus	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces	none provided	none provided	N/I		Peru provided (Annex 3)	
shark, blue, shortfin mako, hammerhead	other	none provided	not applicable	not applicable	Artisanal: Peru EEZ all provinces and on high seas	none provided	none provided	N/I		Peru provided (Annex 3)	
Caribbean spiny lobster	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data; Peru provided	
algae	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data; Peru provided	
mussels	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data; Peru provided	
orange roughy	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data	Peru says they do not have record of exporting orange roughy
Atlantic salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data	Peru says they do not have record of exporting Atlantic salmon
sea bass	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data	Peru says they do not have record of exporting sea bass (<i>Dicentrarchus</i> spp.)

Philippines

Exempt Fisheries

Tuna (skipjack, yellowfin, bigeye)	handline/hook and line	None provided	not applicable	not applicable	year-round; coastal area, nationwide, EEZ	none documented	none documented	A/G	WCPFC	Philippines provided, U.S. Trade Data	large commercial vessels are "handline," small municipal vessels (3t or less) are "hook and line"
dolphinfish, swordfish	handline/hook and line	None provided	not applicable	not applicable	year-round; Offshore	none documented	none documented	A/G		Philippines provided, U.S. Trade Data, WCPFC national report 2016, https://www.wcpfc.int/system/files/AR-CCM-20%20PHILIPPINES%20PART%201.pdf	
Octopus	spears/gaff hooks	None provided	not applicable	not applicable	year-round; coastal area and nationwide Major areas = South Sulu Sea, Tawi-tawi, Jolo, Basilan, Palawan, Caraga	none documented	none documented			Philippines provided, U.S. Trade Data	
sardine, herring, and squid	bagnet and scoop net	None provided	not applicable	not applicable	year-round; nationwide	none documented	none documented	A/G		Philippines provided, U.S. Trade Data	analogous to pound or fyke nets
Tuna (skipjack, yellowfin, bigeye)	ring net	107	not applicable	not applicable	year-round; EEZ	none documented	none documented	C/O	WCPFC	Philippines provided,	FAD Closure season for purse seine and ringnets in HSP1: July-Sept, observer presence, no MM interactions reported
dolphinfish	ring net	None provided	not applicable	not applicable	year-round; Offshore	none documented	none documented	A/G		Philippines provided, U.S. Trade Data	Fisheries Administrative Order (FAO) 185 and 185---1 banning the taking or catching, selling, purchasing, possessing, transporting and exporting of dolphins, whales and porpoises • FAO 208 – Conservation of rare, threatened and endangered fishery species • Amended Fisheries Code Sections 11 and 102 • Relevant CMMs of WCPFC and IOTC

Export Fisheries

dolphinfish	troll	None provided	not applicable	not applicable	year-round; Offshore	none documented	none documented	A/G		Philippines provided	
Sardine, herring, mackerel, bonito, squid, round scad	purse seine	Region 9 (Zamboanga) = 66, Region 6 (Iloilo) = 86, Region 4-B (Palawan) = 88	not applicable	not applicable	Coastal waters, Nationwide, Major Areas – Zamboanga Peninsula, Basilan, Sulu, Tawi--Tawi, Palawan, Visayan Sea and Ticao Pass/San Bernardino Strait, Palawan, Iloilo	spinner dolphins, spotted dolphins possible interaction	none documented	C/O		Philippines provided, Worldwide cetacean bycatch/appendix	Fishing season: year-round, observers report no MM interactions

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Sardine, herring, mackerel, bonito, squid, round scad	ring net	Region 9 (Zamboanga) = 66, Region 6 (Iloilo) = 86, Region 4-B (Palawan) = 88	not applicable	not applicable	Coastal waters, Nationwide, Major Areas – Zamboanga Peninsula, Basilan, Sulu, Tawi-Tawi, Palawan, Visayan Sea and Ticao Pass/San Bernardino Strait, Palawan, Iloilo	spinner dolphins, spotted dolphins possible interaction	none documented	C/O		Philippines provided, U.S. Trade Data	Fishing season: year-round, observers report no MM interactions
Tuna (skipjack, yellowfin, bigeye)	purse seine	121	not applicable	not applicable	year-round; EEZ	none documented	none documented	C/O	WCPFC	Philippines provided, Worldwide cetacean bycatch/appendix	FAD Closure season for purse seine and ringnets in HSP1: July-Sept, observer presence, no MM interactions reported
Tuna (skipjack, yellowfin, bigeye)	purse seine	28	not applicable	not applicable	year-round; High Seas Pocket 1, Nationwide, EEZ, International Waters (including High Seas and EEZ of coastal states in the Western and Central Pacific Ocean and the Indian Ocean where PH--flagged vessels have fishing access/agreements	bottlenose dolphin, rough-toothed dolphin	1 bottlenose, 6 rough-tooth encircled, released, subsequently died	C/O, P	WCPFC/IOTC	Philippines provided, WCPFC national report 2016, https://www.wcpfc.int/system/files/AR-CCM-20%20PHILIPPINES%20PART%201.pdf	FAD Closure season for purse seine and ringnets in HSP1: July-Sept
Tuna (skipjack, yellowfin, bigeye)	ring net	3	not applicable	not applicable	year-round; High Seas Pocket 1, Nationwide, EEZ, International Waters (including High Seas and EEZ of coastal states in the Western and Central Pacific Ocean and the Indian Ocean where PH--flagged vessels have fishing access/agreements	bottlenose dolphin, rough-toothed dolphin	none provided	N/I	WCPFC/IOTC	Philippines provided, U.S. Trade Data	FAD Closure season for purse seine and ringnets in HSP1: July-Sept
Tuna (skipjack, yellowfin, bigeye)	longline	None provided	not applicable	not applicable	EEZ International waters	bottlenose dolphin, rough-toothed dolphin	none provided	N/I	WCPFC/IOTC/ICCAT	Philippines provided, U.S. Trade Data	FAD Closure season for purse seine and ringnets in HSP1: July-Sept
Blue swimming crab	pots	None provided	not applicable	not applicable	year-round; Visayan Sea, Samar Sea, San Miguel Bay; Bays/Gulfs nationwide	none documented	none documented	A/G		Philippines provided, U.S. Trade Data	Fisheries Administrative Order (FAO) 185 and 185--1 banning the taking or catching, selling, purchasing, possessing, transporting and exporting of dolphins, whales and porpoises • FAO 208 – Conservation of rare, threatened and endangered fishery species • Amended Fisheries Code Sections 11 and 102 • Relevant CMMs of WCPFC and IOTC
Blue swimming crab	gillnet	None provided	not applicable	not applicable	year-round; Visayan Sea, Samar Sea, San Miguel Bay; Bays/Gulfs nationwide	Irrawaddy dolphins	none documented	A/G		Philippines provided, Reeves et al., 2004; Smith and Beasley, 2004; Young and Iudicello, 2007)	Fisheries Administrative Order (FAO) 185 and 185--1 banning the taking or catching, selling, purchasing, possessing, transporting and exporting of dolphins, whales and porpoises • FAO 208 – Conservation of rare, threatened and endangered fishery species • Amended Fisheries Code Sections 11 and 102 • Relevant CMMs of WCPFC and IOTC
dolphinfish	purse seine	None provided	not applicable	not applicable	year-round; Offshore	none documented	none documented	A/G		Philippines provided, U.S. Trade Data	Fisheries Administrative Order (FAO) 185 and 185--1 banning the taking or catching, selling, purchasing, possessing, transporting and exporting of dolphins, whales and porpoises • FAO 208 – Conservation of rare, threatened and endangered fishery species • Amended Fisheries Code Sections 11 and 102 • Relevant CMMs of WCPFC and IOTC

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Octopus	traps, pots	None provided	not applicable	not applicable	year-round; Major areas = South Sulu Sea, Tawi-tawi, Jolo, Basilan, Palawan, Caraga	none documented	none documented	A/G	Philippines provided, U.S. Trade Data		Fisheries Administrative Order (FAO) 185 and 185--1 banning the taking or catching, selling, purchasing, possessing, transporting and exporting of dolphins, whales and porpoises • FAO 208 – Conservation of rare, threatened and endangered fishery species • Amended Fisheries Code Sections 11 and 102 • Relevant CMMs of WCPFC and IOTC
squid	trawl	None provided	not applicable	not applicable	year-round; nationwide	none documented spinner dolphin, Fraser's dolphin, Cuvier's beaked whale, Irrawaddy dolphin	none documented	A/G	Philippines provided, U.S. Trade Data		Fisheries Administrative Order (FAO) 185 and 185--1 banning the taking or catching, selling, purchasing, possessing, transporting and exporting of dolphins, whales and porpoises • FAO 208 – Conservation of rare, threatened and endangered fishery species • Amended Fisheries Code Sections 11 and 102 • Relevant CMMs of WCPFC and IOTC
tuna (skipjack)	drift gillnet	None provided	not applicable	not applicable	municipal waters; nationwide	anecdotal reports of marine mammal interaction	none provided	P, A/G	Problems of marine mammal conservation in Southeast Asia, 2002		regulations limit nets to 500m total length, set in municipal waters only
demersal and small pelagic fishes	fish corral/set net	None provided	not applicable	not applicable	municipal waters; nationwide	marine mammal interaction	none provided	P, C/O, A/G	Philippines provided		rescue and response protocols in place for marine mammal interaction, high awareness among fishermen to release and protect

Poland

Exempt Fisheries

krill	trawl, midwater	1	not applicable	not applicable	Antarctic Peninsula Subareas 48.1-4	Antarctic fur seal, unspecified seal	Subarea 48.1 2011: 1 unspecified seal killed, Subarea 48.2, 2009: 2009: 12 fur seals killed, 3 fur seals released, Subarea 48.3, 2008: 6 fur seals killed	P, A/G	CCAMLR	U.S. Trade Data	last active in 2011
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Export Fisheries

Sprat	traps	4	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Sprat	trawl, bottom	25	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Sprat	trawl, pelagic	115	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Sprat	gillnet	4	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Herring	traps	118	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Herring	trawl, bottom	31	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Herring	trawl, pelagic	114	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Herring	gillnet	198	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Herring	danish seine	2	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Flounder	traps	40	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Flounder	trawl, bottom	138	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre
Flounder	trawl, pelagic	15	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G		Poland provided	data collected by Polish Fisheries Monitoring Centre

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Flounder	longline	45	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Flounder	gillnet	426	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Cod	traps	12	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Cod	trawl, bottom	142	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Cod	trawl, pelagic	51	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Cod	longline	74	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Cod	gillnet	364	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Cod	trawl, bottom	1	not applicable	not applicable	year-round, Northeastern Atlantic (FAO 27)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
salmon	traps	2	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
salmon	gillnet	50	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
salmon	longline	41	not applicable	not applicable	year-round, Baltic Sea (FAO 27.3d)	harbor porpoise, harbor seal, ringed seal, gray seal	none documented	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Atlantic horse mackerel	trawl, pelagic	2	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34), Southeastern Atlantic (FAO 47)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Atlantic horse mackerel	trawl, pelagic	2	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34), Southeastern Atlantic (FAO 47)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
Chilean jack mackerel	trawl, pelagic	1	not applicable	not applicable	year-round, Southeast Pacific (FAO 87)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
sardine, sardinella	trawl, pelagic	2	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
European hake	trawl, pelagic	2	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34), Southeastern Atlantic (FAO 47)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
European hake	trawl, bottom	1	not applicable	not applicable	year-round, Northeastern Atlantic (FAO 27)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
pollock	trawl, bottom	1	not applicable	not applicable	year-round, Northeastern Atlantic (FAO 27)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
sea bream	trawl, pelagic	2	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34), Southeastern Atlantic (FAO 47)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
redfish	trawl, bottom	1	not applicable	not applicable	year-round, Northeastern Atlantic (FAO 27)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		data collected by Polish Fisheries Monitoring Centre
haddock	trawl, bottom	1	not applicable	not applicable	year-round, Northeast Atlantic (FAO 27)	marine mammal interactions indicated, species not provided	none provided	C/O, A/G	Poland provided		4 vessels fishing across FAO areas (27, 34, 87)

Portugal

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
seaweed	hand collection	100	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
clam	coastal aquaculture	1200	none provided	none provided	year-round; Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
snails	hand collection	1200	none provided	none provided	year-round; Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
skipjack tuna	handlines	74	none provided	none provided	none provided	year-round; Northeast Atlantic Ocean (FAO zone 27)	none documented	A/G		EU provided, U.S. Trade Data	
mussels	aquaculture - rafts and ropes	8	none provided	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	marine mammals present in area, species not specified	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Export Fisheries											
Groundfish fishery (American plaice (long rough dab), Atlantic cod, Atlantic halibut, Atlantic redfishes), rays (Raja rays nei)	trawl, bottom otter	9	Not applicable	Not applicable	year-round; Northwest Atlantic (FAO area 21)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Activity covered by observer but no information provide about percent observer coverage
Mackerel (Atlantic)	trawl, bottom otter	60	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.8	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Whiting (blue)	trawl, bottom otter	62	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.826	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Black scabbardfish	Longline set	4	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Mackerel (chub, horse)	purse seine	149	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	10	P, A/G		EU provided, U.S. Trade Data	"[9.9] Estimated from 45 vessels in 2 years with 3 confirmed kills (the numbers are not cumulative between target fishery species)"
Mackerel (chub)	Longline drift	1	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	"Estimated from 45 vessels in 2 years with 3 confirmed kills (the numbers are not cumulative between target fishery species)"
mackerels (horse)	trawl, bottom otter	75	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	1	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Common octopus	trawl, bottom otter	63	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.8	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
European anchovy	purse seine	85	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	5.7	P, A/G		EU provided, U.S. Trade Data	"Estimated from 45 vessels in 2 years with 3 confirmed kills (the numbers are not cumulative between target fishery species)"
Sardine (European pilchard)	purse seine	141	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	9.4 - 113	P, A/G		EU provided, Marcalo et. al. 2015	"Estimated from 45 vessels in 2 years with 3 confirmed kills (the numbers are not cumulative between target fishery species)" 0.63% of the estimate of population size for the Portuguese fishing area (from SCANS II)
Greenland halibut, haddock, silver hake	trawl, bottom otter	7	Not applicable	Not applicable	year-round; Northwest Atlantic (FAO area 21)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Activity covered by observer but no information provide about percent observer coverage
Hake	trawl, bottom otter	82	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	1.1	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Hake (white), flounder (witch)	trawl, bottom otter	8	Not applicable	Not applicable	year-round; Northwest Atlantic (FAO area 21)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Activity covered by observer but no information provide about percent observer coverage
Hakes nei	Longline drift	1	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Megrim sole	trawl, bottom otter	57	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.8	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Norwegian lobster	trawl, bottom otter	34	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.5	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Rose shrimp	trawl, bottom otter	31	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.4	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Shortfin mako, blue shark, swordfish	Longline drift	4	Not applicable	Not applicable	year-round; Southeast Atlantic Ocean (FAO area 41)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Shark, blue	Longline drift	1	Not applicable	Not applicable	year-round; Western Central Atlantic (FAO area 31)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Shortfin mako, blue shark, swordfish	Longline drift	3	Not applicable	Not applicable	year-round; Southwest Atlantic Ocean (FAO area 47)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Shark (blue)	Longline drift	21	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
swordfish	Longline drift	20	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Tuna (yellowfin, bigeye), shortfin mako, blue shark, swordfish	Longline drift	6	Not applicable	Not applicable	year-round; Western Indian Ocean (FAO area 51)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Shark (blue) swordfish,	Longline drift	3	Not applicable	Not applicable	Eastern Indian Ocean (FAO area 57)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Shark (Shortfin mako, blue shark), swordfish	Longline drift	1	Not applicable	Not applicable	year-round; Southwest Pacific (FAO area 81)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Activity covered by observer but no information provide about percent observer coverage
Shark (blue) swordfish,	Longline drift	1	Not applicable	Not applicable	year-round; Western Central Pacific (FAO area 71)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
Shark (Shortfin mako, blue shark), swordfish	Longline drift	2	Not applicable	Not applicable	year-round; Southeast Pacific (FAO area 87)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Activity covered by observer but no information provide about percent observer coverage
Shark (Shortfin mako, blue shark), swordfish, bigeye tuna	Longline drift	10	Not applicable	Not applicable	Eastern Tropical Pacific Ocean, Inter-American Tropical Tuna Convention Area	none documented	none documented	A/G	IATTC	EU provided, https://www.iattc.org/Meetings/Meetings2017/SAC08/PDFs/INF/SAC-08-INF-A(g)-EU-Portugal-Annual-report-2016.pdf	Activity covered by observer but no information provide about percent observer coverage
Squid (shortfin)	trawl, bottom otter	25	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.3	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Squid (European)	trawl, bottom otter	60	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0.8	P, A/G		EU provided, U.S. Trade Data	Very variable but lower on average than PS. Estimated as 20% of PS for this purpose (the numbers are not cumulative between target fishery species)
Tuna, (yellowfin)	Longline drift	5	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	
Tuna (albacore)	Longline set	4	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	striped dolphin	none provided	P, A/G		EU provided, Cetacean Bycatch Appendix	striped dolphin interactions noted in albacore fleet. Possibly not LL vessels, more common in driftnet and trawl vessels. Portugal did not report having any driftnet or trawl fleets targeting albacore. Licensed to fish off Cape Verde, other locations?
Tuna, (bigeye)	Longline set	9	Not applicable	Not applicable	year-round; Western Africa (FAO area 34)	none provided	none provided	A/G		EU provided, U.S. Trade Data	Licensed to fish off Cape Verde, other locations?
Tuna, (blue fin)	fixed weir/traps	3	Not applicable	Not applicable	April-October; Northeast Atlantic Ocean (FAO zone 27)	common dolphin	0	N/I		EU provided, U.S. Trade Data	Portugal claims all dolphins caught in the trap are released alive and unharmed. Unclear from looking at the gear type whether dolphins could get stuck in the net that funnel tuna to the final area where they are harvested.
none provided	gillnet	none provided	not applicable	not applicable	Northeast Atlantic Ocean (FAO zone 27)	common dolphin	11	N/I, A/G		EU provided, Cetacean Bycatch Appendix	coastal gillnet fishing in the 1980s. Unknown if this fishery still exists.
multispecies fishery (crab, cuttlefish)	trap	1000	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented			EU provided, U.S. Trade Data	
eel	trap	124	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented			EU provided, U.S. Trade Data	
ocean perch	otter trawl, bottom	none provided	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27), Northwest Atlantic (FAO area 21)	none documented	none documented	N/I		EU provided, U.S. Trade Data	
rock lobster (rock/Homarus spp)	traps/pots	100	none provided	none provided	none provided	none provided	none documented	C/O, A/G		EU provided, U.S. Trade Data	
Export Fisheries with No Information											
Soldier striped shrimp (Gamba da Madeira)	LKW	2	Not applicable	Not applicable	year-round; Mediterranean Sea (FAO area 37)	none provided	none provided	N/I		EU provided, U.S. Trade Data	

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pollock	Misc. gear	1000	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO zone 27)	marine mammals present in area, species not specified	none documented	N/I		U.S. Trade Data	
Reunion											
Exempt Fisheries											
Ice Fish (Champsocephalus gunnari)	trawl, pelagic midwater	2 vessels AUSTRAL ATLAS COVE (hired under French port registration)	3 Companies (not aquaculture) SAPMER ARMAS PECHE COPECMA	not applicable	EEZ of Kerguelen 1er December N to the 30 November N+1	None documented	None documented	A/G	CCAMLR	U.S. Trade Data	Observer data
Lobster (Jasus paulensis) Fishes (Wreckfish--Polyprion oxygeneios, Trumpeter--Latris Lineata, Butterfish/trevally--Hyperoglyphe Antarctica)	pots	1 vessel AUSTRAL	2 Companies (not aquaculture) SAPMER ARMAS PECHE	not applicable	EEZ of Saint - Paul and Amsterdam	None documented	None documented			U.S. Trade Data	Observer data, absence of bycatch, operates December 1 to April 30
Export Fisheries											
Toothfish	Bottom Longline	8 Vessels MASCAREIGNES III CAP HORN ILE BOURBON ALBIUS CAP KERSAINT ILE DE LA REUNION SAINT ANDRE CORINTHIAN BAY (hired under French port registration)	7 Companies (not aquaculture) SAPMER ARMAS PECHE LES ARMEMENTS REUNIONNAIS CAP BOURBON COMATA PECHE AVENIR REUNION PECHE AUSTRALE	not applicable	EEZ of Kerguelen EEZ of Crozet 1st of September (year) N to the 31th august N+1	Sperm Whales Elephant Seals	2015-2016 : 2 sperm whales entangled; 1 elephant seal dead 2016-2017 : 1 elephant seal dead	P	CCAMLR	U.S. Trade Data	Observer data
Tuna (Albacore, Germon, Listao, Patudo)	Purse seine	42 vessels	4 Companies (not aquaculture) OPAGAC ANABAC ORTHONGEL IOSMS	not applicable	EEZ of Iles Glorieuses EEZ of Bassas de India EEZ of Tromelin EEZ of Juan de Nova EEZ of Europa 1st of January to the 31 December	False killer whales	2014 : 4 pseudorca crassidens captured, released alive 2015 : 0 capture 2016 : 0 capture	P		U.S. Trade Data	Observer data
Tuna (Yellowfin, Bigeye)	Longline	39		not applicable	EEZ of Iles Glorieuses EEZ of Bassas de India EEZ of Tromelin EEZ of Juan de Nova EEZ of Europa 1st of January to the 31 December	Small cetaceans	none provided	A/G		Kiszka et. al. 2008	
Romania											
Exempt Fisheries											
caviar, sturgeon	aquaculture	none provided	none provided	none provided	none provided	none provided	none provided	N/I, A/G		U.S. Trade Data	
shellfish, mussels	aquaculture	none provided	none provided	none provided	none provided	none provided	none provided	N/I, A/G		U.S. Trade Data	
Export Fisheries with No Information											
Atlantic salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Russia											
Exempt Fisheries											
kill	trawl, midwater	1	none provided	none provided	Antarctic Peninsula Subareas 48.1-4	none provided	none provided	N/I	CCAMLR	U.S. Trade Data	last active in 2010
Export Fisheries											

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crabs	pots	1	none provided	none provided	Subarea 48.2 (South Orkney Is.)	none reported	none provided	A/G	CCAMLR	U.S. Trade Data	last active in 2010
crabs	pots	1	none provided	none provided	Subarea 48.3 (South Georgia Is.)	none reported	none provided	A/G	CCAMLR	U.S. Trade Data	last active in 2010
toothfish	longline	6	none provided	none provided	Subarea 88.1-2	none reported	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	active
pollock fillets, roe, surimi	trawl, mid-water pelagic	none provided	none provided	none provided	Karaginsky, Russian Far East, FAO 61	Steller sea lion, common seal, Risso's and common dolphin, harbor porpoise, narwhal; Cuvier's beaked, Stejneger's beaked, gray, bowhead, North Pacific right, humpback, fin, sei, blue, sperm, and Baird's beaked whale	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission. List of ETP mammal species co-occurring in pollock trawl area: http://www.russianpollock.com/ecosystem/protected-species/Russian_Far_East_ETP_sea_mammals_list.pdf	From Russian Fishery Rules for the Far Eastern Fisheries Basin: The entire incidental catch of marine mammals and all species of crabs and prawns that are not named in the permit to harvest (catch) aquatic biological resources, regardless of its condition, shall be immediately returned to its natural habitat with the least possible harm.
pollock fillets, roe, surimi	trawl, mid-water pelagic	none provided	none provided	none provided	West Bering Sea, Pacific Northwest (FAO Area 61)	Steller sea lion, common seal, Risso's and common dolphin, harbor porpoise, narwhal; Cuvier's beaked, Stejneger's beaked, gray, bowhead, North Pacific right, humpback, fin, sei, blue, sperm, and Baird's beaked whale	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission. Fomin, Belonovich and Burkanov (2014) The First Estimation of Steller Sea Lion Bycatch in the Western Bering Sea in 1980's - https://seagrant.uaf.edu/events/2014/wakefield-bycatch/posters/fomin-estimation-sea-lion.pdf List of ETP mammal species co-occurring in pollock trawl area: http://www.russianpollock.com/ecosystem/protected-species/Russian_Far_East_ETP_sea_mammals_list.pdf	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
pollock fillets, roe, surimi	trawl, bottom demersal	none provided	none provided	none provided	Sea of Okhotsk, Pacific Northwest (FAO Area 61)	Steller sea lion, common seal, Risso's and common dolphin, harbor porpoise, narwhal; Cuvier's beaked, Stejneger's beaked, gray, bowhead, North Pacific right, humpback, fin, sei, blue, sperm, and Baird's beaked whale	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
king and snow crab	pots	none provided	none provided	none provided	FAO Area 61, West Bering Sea harvest area	humpback	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
king, opilio and Tanner crab	pots	none provided	none provided	none provided	Sea of Okhotsk, Pacific Northwest (FAO Area 61)	minke, humpback	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
king, opilio, Tanner, triangle Tanner and Korean horsehair crab	pots	none provided	none provided	none provided	Kamchatka, Primorye, Kuril Islands harvest regions	minke, humpback	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
cod, sole, flounder, halibut, flatfish, groundfish	longline, demersal	none provided	none provided	none provided	Sea of Okhotsk and Western Bering Sea, Russian Far East, Pacific Northwest (FAO Area 61)	orca, Pacific white-sided dolphin, Dall's porpoise	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
flatfish, cod, mackerel, halibut, haddock, perch, grouper, snapper, gobies	trawl, bottom demersal	none provided	none provided	none provided	Russian Far East, Pacific Northwest (FAO Area 61)	minke, orca, Pacific white-sided dolphin, Dall's porpoise, harbor porpoise	none provided	A/G, C/O		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
cod, haddock	trawl, bottom demersal	none provided	none provided	none provided	Russian EEZ, Barents Sea, FAO Area 21	none provided	none provided	A/G		U.S. Trade data	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
salmon and salmon roe	gillnet, set	none provided	none provided	none provided	Russian Far East, Pacific Northwest (FAO Area 61)	Harbor porpoise, Dall's porpoise, Baird's beaked whale	none provided	A/G		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007).	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
salmon and salmon roe	gillnet	none provided	none provided	none provided	Russian Far East, Pacific Northwest (FAO Area 61)	Harbor porpoise, Dall's porpoise, Baird's beaked whale	none provided	A/G		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007).	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
haddock, mackerel, redfish, herring, blue whiting, deep sea species	trawl, bottom demersal	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	A/G	NEAFC	http://www.neafc.org/catch : http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	trawl, mid-water pelagic	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	A/G	NEAFC	http://www.neafc.org/catch : http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	purse seine	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	A/G	NEAFC	http://www.neafc.org/catch : http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	gillnet	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	A/G	NEAFC	http://www.neafc.org/catch : http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
groundfish, cod, redfish, witch, hake, skates, halibut, squid	trawl, bottom	none provided	none provided	none provided	North Atlantic Fishery Organization (NAFO) Regulatory Area	none provided	none provided	A/G	NAFO	https://www.nafo.int/Fisheries/Fishing-Activity-in-the-NRA species names in quota tables: https://www.nafo.int/Portals/0/PDFs/fci/2017/QuotaTable2017.pdf	
tuna	purse seine	none provided	none provided	none provided	Western Indian Ocean	sei, Bryde's, minke, and pygmy blue whales	none provided	A/G		IPNLF (2014) Cetaceans and Tuna Fisheries in Western and Central Indian Ocean. https://www.npfc.int/fisheries-overview https://www.npfc.int/vessel_list?field_flag_target_id%5B%5D=55&field_vessel_type_taxterm_target_id%5B%5D=71&field_call_sign_value=&title=&field_international_maritime_org_value=&sort_by=field_flag_target_id&sort_order=ASC	
North Pacific armourhead, splendid alfoncino	trawl, bottom	26	not applicable	not applicable	high seas North Pacific	none provided	none provided	A/G		https://www.npfc.int/fisheries-overview https://www.npfc.int/vessel_list?field_flag_target_id%5B%5D=55&field_call_sign_value=&title=&field_international_maritime_org_value=&sort_by=field_flag_target_id&sort_order=ASC	
sablefish	longline	1	not applicable	not applicable	high seas North Pacific	none provided	none provided	A/G		http://helcom.fi/action-areas/fisheries/commercial-fisheries/fisheries-today http://helcom.fi/baltic-sea-trends/biodiversity/red-list-of-species/red-list-of-marine-mammals/	
flounder, cod, herring, sprat	gillnet	none provided	none provided	none provided	Baltic	harbor porpoise, harbor seal, Baltic ringed seal, grey seal	none provided	A/G		http://helcom.fi/action-areas/fisheries/commercial-fisheries/fisheries-today http://helcom.fi/baltic-sea-trends/biodiversity/red-list-of-species/red-list-of-marine-mammals/	
flounder, cod, herring, sprat	trawl	none provided	none provided	none provided	Baltic	harbor porpoise, harbor seal, Baltic ringed seal, grey seal	none provided	A/G		http://helcom.fi/action-areas/fisheries/commercial-fisheries/fisheries-today http://helcom.fi/baltic-sea-trends/biodiversity/red-list-of-species/red-list-of-marine-mammals/	
pollock fillets, roe, surimi	Danish seine	none provided	none provided	none provided	Sea of Okhotsk, FAO Area 61	Steller sea lion, common seal, Risso's and common dolphin, harbor porpoise, narwhal, Cuvier's beaked, Stejneger's beaked, gray, bowhead, North Pacific right, humpback, fin, sei, blue, sperm, and Baird's beaked whale	none provided	N/I		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission. List of ETP mammal species co-occurring in pollock trawl area: http://www.russianpollock.com/ecosystem/protected-species/Russian_Far_East_ETP_sea_mammals_list.pdf	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Export Fisheries with No Information											
flatfish, cod, mackerel, halibut, haddock, perch, grouper, snapper, gobies	Danish (bottom) seine	none provided	none provided	none provided	Russian Far East, Pacific Northwest (FAO Area 61) Western Bering Sea, Pacific Northwest (FAO Area 61)	none provided	none provided	N/I		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007). Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
herring	no information	none provided	none provided	none provided	Russian Far East, Pacific Northwest (FAO Area 61)	Harbor porpoise, Dall's porpoise, Baird's beaked whale	none provided	N/I		U.S. Trade data	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
salmon and salmon roe	netted fish traps	none provided	none provided	none provided	Russian Far East, Pacific Northwest (FAO Area 61)	none provided	none provided	N/I		U.S. Trade data. NOAA Cetacean Bycatch Tech Memo (2007).	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Hanasaki crab	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Snow crab	pots	none provided	none provided	none provided	Chuckchi Sea - Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Crab, mitten, vermillion	pots	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Duck clam	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Mussels	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
clams, Softshell clams, nut clams, razor clams	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Arctic surf clams	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Japanese sea cucumber	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Codfish	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
whelk species, kaga whelk	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
Oysters	none provided	none provided	none provided	none provided	Far East	none provided	none provided	N/I		Russia data submission.	See comment above from the Russian Fishery Rules for the Far Eastern Fisheries Basin.
haddock, mackerel, redfish, herring, blue whiting, deep sea species	Scottish seine	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	N/I	NEAFC	http://www.neafc.org/catch: http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	pots	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, Atlantic Northeast (FAO Area 27)	none provided	none provided	N/I	NEAFC	http://www.neafc.org/catch: http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	driftnet	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	N/I	NEAFC	http://www.neafc.org/catch: http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	tangle net	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	N/I	NEAFC	http://www.neafc.org/catch: http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
haddock, mackerel, redfish, herring, blue whiting, deep sea species	hook & line	none provided	none provided	none provided	North-East Atlantic Fisheries Commission Regulatory Area, FAO 27	none provided	none provided	N/I	NEAFC	http://www.neafc.org/catch: http://firms.fao.org/firms/fishery/481/en gear types allowed: http://www.neafc.org/scheme/Annex2/appendix2a	
Atlantic salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
molluscs, shellfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
ocean perch	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
shrimp	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
halibut - Atlantic, Pacific	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
molluscs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
cusck	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
flatfish - plaice, flounder, halibut, turbot	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
crab - dungeness	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
coral, shells	hand collection	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
rock lobster	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
sauger	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
sturgeon roe	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
clam	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
swordfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
cuttlefish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
sponge	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
crustaceans	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
scallop	none provided	none provided	none provided	none provided	Kurile Islands & Sea of Japan, Russian Far East, FAO 61	none provided	none provided	N/I		U.S. Trade data. Ocean Outcomes - http://www.oceanoutcomes.org/what-we-do/services/rapid-assessments/	
sea urchin	none provided	none provided	none provided	none provided	Kurile Islands & Sea of Japan, Russian Far East, FAO 61	none provided	none provided	N/I		U.S. Trade data. Ocean Outcomes - http://www.oceanoutcomes.org/what-we-do/services/rapid-assessments/	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
sea bass	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
seaweed	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
squid	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	If squid is caught by driftnet, then the NOAA Cetacean Bycatch Tech Memo says there are gear interactions with Northern right whale dolphin, Pacific white-sided dolphin, harbor porpoise.
anchovy	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
sardine	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	
Pacific saury, also called mackerel pike	none provided	none provided	none provided	none provided	Sea of Japan & western North Pacific, Russian Far East, Pacific Northwest (FAO Area 61)	none provided	none provided	N/I		http://fishbull.noaa.gov/1143/syah.pdf http://www.fao.org/3/a-ac749e/AC749E08.htm	
caviar	none provided	none provided	none provided	none provided	not provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	U.S. Trade data	Trade data does not specify what fish species "caviar" is harvested from. See comment above from the Russian Fishery Rules for the East Siberian Basin. See comment above from the Russian Fishery Rules for the East Siberian Basin. See comment above from the Russian Fishery Rules for the East Siberian Basin.
Sturgeon	none provided	none provided	none provided	none provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	Russia data submission.		
Siberian white salmon	none provided	none provided	none provided	none provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	Russia data submission.		
Arctic cod	none provided	none provided	none provided	none provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	Russia data submission.		
Herring	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	From Russian Fishery Rules for Azov & Black Seas: Species of aquatic biological resources prohibited for harvesting (catching): marine mammals. From internet: Formerly three types of dolphins, short-beaked common dolphin, common bottlenose dolphin and harbor porpoise. Various species of pinnipeds and belugas were introduced into Black Sea by mankind. The grey seal has been recorded within Kerch Strait and Sea of Azov.
Flounder	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
sea snails	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
mussels	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
brine shrimp	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
anchovy	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
Atlantic horse mackerel	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
Bastard halibut	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I		Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007. International Workshop on Cetacean Bycatch within the ACCOBAMS Area (2008). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.
turbot, sturgeon, spiny dogfish	large mesh net	none provided	none provided	none provided	Black Sea	harbor porpoise, common and bottlenose dolphin	none provided	N/I			See comment above on the Russian Fishery Rules for the Volga River and Caspian Sea. Note: The Caspian Seal (<i>Phoca caspica</i>) is the only marine mammal in the Caspian Sea. See comment above on the Russian Fishery Rules for the Volga River and Caspian Sea. Note: The Caspian Seal (<i>Phoca caspica</i>) is the only marine mammal in the Caspian Sea. See comment above on the Russian Fishery Rules for the Volga River and Caspian Sea. Note: The Caspian Seal (<i>Phoca caspica</i>) is the only marine mammal in the Caspian Sea.
herring	none provided	none provided	none provided	none provided	Caspian Sea & Volga River	Caspian seal	none provided	N/I		Russia data submission.	
crustaceans	none provided	none provided	none provided	none provided	Caspian Sea & Volga River	Caspian seal	none provided	N/I		Russia data submission.	
crayfish	none provided	none provided	none provided	none provided	Caspian Sea & Volga River	Caspian seal	none provided	N/I		Russia data submission.	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Cod, haddock, halibut	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		From the Russian Fishery Rules for the Northern Commercial Basin (White Sea): All incidental fishing of... marine mammals regardless of their status should be immediately returned to the natural habitat with minimal damage.
Capelin	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
herring	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
Northern shrimp	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
flounder, Artic flounder	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
scallop	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
salmon, Pink Salmon	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
Atlantic salmon	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.
carp, catfish, eels, perch, snakehead, tilapia	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade data		
pike	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade data		
trout	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade data		
yellow perch	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade data		
pickereel	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I	U.S. Trade data		
Carp (landlocked form)	none provided	none provided	none provided	none provided	Lake Baikal	none provided	none provided	N/I	Russia data submission.		Baikal seal is the only marine mammal in Lake Baikal (inland lake). From translated Russian Fisheries Rules for Lake Baikal: . It is prohibited to extract (catch): Baikal seal, including calves.
Skin carp	none provided	none provided	none provided	none provided	Lake Baikal	none provided	none provided	N/I	Russia data submission.		Baikal seal is the only marine mammal in Lake Baikal (inland lake). From translated Russian Fisheries Rules for Lake Baikal: . It is prohibited to extract (catch): Baikal seal, including calves.
Carp	none provided	none provided	none provided	none provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	Russia data submission.		From Russian Fishery Rules for the East Siberian Basin: It is prohibited to extract (catch): ringed seal (akiba) in the Laptev Sea - from 1st of March till 10th of April. The entire by-catch of sea mammals not listed in aquatic bioresources harvesting (catch) permit, regardless of their condition, shall be immediately returned to the natural habitat.
Whitefish	none provided	none provided	none provided	none provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the East Siberian Basin.
Pike	none provided	none provided	none provided	none provided	Laptev Sea & Siberian Basin	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the East Siberian Basin.
pike	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I	Russian data submission. NOAA Cetacean Bycatch Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.	
carp	none provided	none provided	none provided	none provided	Black and Azov Seas	harbor porpoise	none provided	N/I	Tech Memo (2007). Dede and Tonay (2010) Cetacean Sightings in the Western Black Sea in Autumn 2007.	See comment above from Russian Fishery Rules for Azov & Black Seas.	From Russian Fishery Rules for the Volga River and Caspian Sea: A commercial fishery must provide separate accounting of aquatic bioresources catch and acceptance by types of aquatic bioresources, indicate the weight (size) or by the species ratio (for aquatic mammals) in the bioresources catch, fishing gear of harvesting (catch) places of harvesting (catch) (area, subarea, fishing zone, fishing subzone, quadrangle) in ship's fishing log and other reporting documents. All bycatch of the Caspian seal, not specified in the permit for the aquatic bioresources harvesting (catching), regardless of its condition, has to be immediately released into the natural habitat with the least damage possible.
carp	none provided	none provided	none provided	none provided	Caspian Sea & Volga River	Caspian seal	none provided	N/I	Russia data submission.		See comment above on the Russian Fishery Rules for the Volga River and Caspian Sea. Note: The Caspian Seal (Phoca caspica) is the only marine mammal in the Caspian Sea.
pike perch	none provided	none provided	none provided	none provided	Caspian Sea & Volga River	Caspian seal	none provided	N/I	Russia data submission.		
Whitefish	none provided	none provided	none provided	none provided	White Sea - Barents	none provided	none provided	N/I	Russia data submission.		See comment above from the Russian Fishery Rules for the Northern Commercial Basin.

Saudi Arabia

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Exempt Fisheries											
marine fish (demersal fish species, and shrimp)	handline	Red Sea: 7611 artisanal fishing boats, Arabian Gulf: 1825 artisanal fishing boats,	Saudi Fisheries Company	not applicable	Jizan on the southern Red Sea coast, Arabian Gulf	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.fao.org/ftp/oldsite/FCP/en/SAU/profile.htm	
shrimp (white)	aquaculture	none provided	Company (OUMG FARM), Jazan	none provided	region of Jizan and Tihama Plains, AL	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.saudi-fisheries.com/aquatic-	
Seabream, Seabass, cuttlefish	aquaculture	aquaculture	Tabuk Fisheries Co is owned by Jazan Development Company, Saudi Fisheries Company	none provided	Red Sea region of Jizan and Tihama Plains	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf	
tuna, bigeye, yellowfin, swordfish	handline	none provided	not applicable	not applicable	Indian Ocean, Persian Gulf	none provided	none provided	A/G, N/I		U.S. Trade Data	
Export Fisheries											
marine fish (demersal fish species, and shrimp)	trawl, industrial	RINDUSTRIAL Vessel - Red Sea: 149, Arabian Gulf: 34	Saudi Fisheries Company	not applicable	Jizan on the southern Red Sea coast, Arabian Gulf	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.fao.org/ftp/oldsite/FCP/en/SAU/profile.htm	
marine fish (demersal fish species, and shrimp)	gillnet	Red Sea: 7611 artisanal fishing boats, Arabian Gulf: 1825 artisanal fishing boats,	Saudi Fisheries Company	not applicable	Jizan on the southern Red Sea coast, Arabian Gulf	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.fao.org/ftp/oldsite/FCP/en/SAU/profile.htm	
marine fish (demersal fish species, and shrimp)	traps	Red Sea: 7611 artisanal fishing boats, Arabian Gulf: 1825 artisanal fishing boats,	Saudi Fisheries Company	not applicable	Jizan on the southern Red Sea coast, Arabian Gulf	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.fao.org/ftp/oldsite/FCP/en/SAU/profile.htm	
marine fish (demersal fish species, and shrimp)	troll	Red Sea: 7611 artisanal fishing boats, Arabian Gulf: 1825 artisanal fishing boats,	Saudi Fisheries Company	not applicable	Jizan on the southern Red Sea coast, Arabian Gulf	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.fao.org/ftp/oldsite/FCP/en/SAU/profile.htm	
shrimp	trawl, artisanal	Arabian Gulf: 1825 artisanal fishing boats,	not applicable	not applicable	Arabian Gulf	none provided	none provided	A/G, N/I		http://www.innovasjon Norge.no/contentassets/eea93bb/ba18a4a4cb955a36c84159a02/saudi-arabia-aquaculture.pdf , http://www.fao.org/ftp/oldsite/FCP/en/SAU/profile.htm	
tuna, bigeye, yellowfin, swordfish	gillnet	none provided	not applicable	not applicable	Red Sea, Arabian Sea, Indian Ocean, Persian Gulf	spotted dolphin, long-beaked common dolphin, bottlenose dolphin, Risso's dolphin, humpback whale	452-1821	A/G, N/I		U.S. Trade Data	

Senegal

Exempt Fisheries											
tuna and off-shore small pelagics, swordfish, dolphin	pole and line	19 (8 from E.U.)	not applicable	not applicable	Senegal EEZ	none provided	none provided	N/I, A/G		FAO 2008 - ftp://ftp.fao.org/FI/DOCUMENT/fcp/fr/FI_CP_SN.pdf https://ec.europa.eu/fisheries/cfp/international/agreements/senegal , http://firms.fao.org/firms/fishery/474/en	
Export Fisheries											

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
cuttlefish, octopus, squid	by catch from E.U. trawling	2 E.U. trawlers - 100 foreign trawlers	not applicable	not applicable	West Africa	none provided	none provided	N/I, A/G		U.S. Trade data. https://ec.europa.eu/fisheries/cfp/international/agreements/senegal https://www.nytimes.com/2017/04/30/world/asia/chinas-appetite-pushes-fisheries-to-the-brink.html	
grouper, herring, sardine, seabream, snapper	purse seine	30,300 motorized canoes	not applicable	not applicable	West Africa	Atlantic hump-backed dolphin, harbor porpoise, rough-toothed dolphin,	few	N/I, A/G, P		U.S. Trade data. http://firms.fao.org/firms/fishery/473/en , http://firms.fao.org/firms/fishery/474/en , in "A review of the human activities impacting cetaceans in the eastern tropical Atlantic" Supplemental Table 3	
grouper, herring, sardine, seabream, snapper	trawl	30,300 motorized canoes	not applicable	not applicable	West Africa	Atlantic hump-backed dolphin	few	N/I, A/G, P		U.S. Trade data. http://firms.fao.org/firms/fishery/473/en , http://firms.fao.org/firms/fishery/474/en , in "A review of the human activities impacting cetaceans in the eastern tropical Atlantic" Supplemental Table 3	
sardine, sardinella, horse mackerel, mackerel, mullet	trawl	143	not applicable	not applicable	none provided	Atlantic hump-backed dolphin	few	N/I, A/G		in "A review of the human activities impacting cetaceans in the eastern tropical Atlantic" Supplemental Table 3	
sardine, sardinella, horse mackerel, mackerel, mullet	purse seine	none provided	not applicable	not applicable	none provided	Atlantic hump-backed dolphin, harbor porpoise, rough-toothed dolphin,	few	N/I, A/G, P		in "A review of the human activities impacting cetaceans in the eastern tropical Atlantic" Supplemental Table 3	
lobster	traps	none provided	not applicable	not applicable	West Africa	none provided	none provided	N/I, A/G		U.S. Trade data. http://firms.fao.org/firms/fishery/474/en	
marine fish (deep demersal species), flat fish, groundfish, cod,	trawl	2 E.U. trawlers (renewed in 2014) - 100 foreign trawlers	not applicable	not applicable	West Africa	none provided	none provided	N/I, A/G		U.S. Trade data. https://ec.europa.eu/fisheries/cfp/international/agreements/senegal , https://www.theguardian.com/environment/2014/jan/09/russia-greenpeace-senegal-trawler-fishing , http://firms.fao.org/firms/fishery/474/en https://www.nytimes.com/2017/04/30/world/asia/chinas-appetite-pushes-fisheries-to-the-brink.html , https://doi.org/10.3389/fmars.2017.00050	More than 20 licenses of Russian, Belizean, Mauritanian, and Ukrainian vessels were revoked in 2014. "Illegal catches were the highest in Mauritania and Senegal with 268,000 and 261,000 t/year respectively, due to the presence of Eastern European pelagic trawlers targeting small-pelagic fish in high quantities." Source: Doumbouya et al (2017) Assessing the Effectiveness of Monitoring Control and Surveillance of Illegal Fishing: The Case of West Africa - https://doi.org/10.3389/fmars.2017.00050
shrimp	trawl, industrial	30	not applicable	not applicable	Senegal EEZ, FAO Area 34	bottlenose, Atlantic humpback, long and short beaked common dolphin; harbor porpoises	100 cetaceans/yr.	N/I, A/G, P		http://ideecasamance.net/uploads/1289825264_Sik774_2008_BycatchSenegal.pdf	Emanuelson (2008): This fleet has no observer coverage. An illegal market has emerged, where catch and bycatch are sold to small artisanal canoes, a phenomenon referred to as transshipment.
shrimp	gillnet, coastal	none provided	not applicable	not applicable	Senegal EEZ	bottlenose, Atlantic humpback, long and short beaked common dolphin; harbor porpoises	100 cetaceans/yr.	N/I, A/G, P		U.S. Trade data, NOAA Cetacean Bycatch Tech Memo (2007)	
shrimp	trawl, coastal	30,300 motorized canoes	not applicable	not applicable	Senegal EEZ	bottlenose, Atlantic humpback, long and short beaked common dolphin; harbor porpoises	100 cetaceans/yr.	N/I, A/G, P		U.S. Trade data, NOAA Cetacean Bycatch Tech Memo (2007)	
tuna, albacore, yellowfin, big eye, swordfish, dolphinfish	long line	none provided	not applicable	not applicable	Commission convention area	none provided	none provided	N/I, A/G		IOTC national report ftp://ftp.fao.org/FI/DOCUMENT/fcp/fr/FI_CP_SN.pdf https://ec.europa.eu/fisheries/cfp/international/agreements/senegal , http://firms.fao.org/firms/fishery/474/en , in	Not all tuna seiners fishing in the Senegalese EEZ land the harvest in Senegal.
tuna and off-shore small pelagics	seine	23-28	not applicable	not applicable	Senegal EEZ	harbor porpoise, rough-toothed dolphin,	few	N/I, A/G, P		in "A review of the human activities impacting cetaceans in the eastern tropical Atlantic" Supplemental Table 3	
shark	net	none provided	not applicable	not applicable	none provided	Atlantic hump-backed dolphin, bottlenose dolphin, harbor porpoise,	20	N/I, A/G, P			
black hake	trawl	2 E.U. trawlers	not applicable	not applicable	West Africa	none provided	none provided	N/I, A/G		https://ec.europa.eu/fisheries/cfp/international/agreements/senegal	
Export Fisheries with No Information											
bass	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
fish liver, roe, milt (fresh)	none provided	none provided	none provided	none provided	Senegal EEZ	none provided	none provided	N/I		U.S. Trade data	
molluscs	none provided	none provided	none provided	none provided	Senegal EEZ	none provided	none provided	N/I		U.S. Trade data	
none provided	trammel net	none provided	not applicable	not applicable	none provided	bottlenose dolphin	few	N/I		cetaceans in the eastern tropical Atlantic" Supplemental Table 3	

Seychelles

Exempt Fisheries

tuna, bigeye, yellowfin, swordfish	purse seine	40 E.U. purse seiners, 13 Seychelles' purse seiners	not applicable	not applicable	Southwest Indian ocean & Seychelles EEZ	none provided	none provided	N/I, A/G	IOTC	MSRA: IOTC national report - http://www.iotc.org/documents/seychelles-national-report-0 . IOTC monitoring and compliance report 2017 - http://www.iotc.org/compliance/monitoring . FAO 2005 - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SC.pdf	No encirclement of marine mammals reported by flag vessels in 2016. Purse seiners were flagged by Spain, France or Seychelles (IOTC 2011).
tuna, bigeye, yellowfin, swordfish	handline	none provided	not applicable	not applicable	Western Indian Ocean	none provided	none provided	N/I, A/G		U.S. Trade Data	Handline is exempt gear.
lobster, sea cucumber	diving	no. of licenses is limited at 25	not applicable	not applicable	Seychelles' coast	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/SYC/profile.htm	Dive fisheries are exempt gear.

Export Fisheries

grouper, seabass, snapper	Artisanal (set bottom fishing, ball bottom fishing, bottom fishing adrift)	417	not applicable	not applicable	Seychelles EEZ	none provided	none provided	N/I, A/G	Fisheries Act	U.S. Trade data. http://www.fao.org/fi/oldsite/FCP/en/SYC/profile.htm SFAstactical Report 2016	The artisanal fishery in the Seychelles is for mixed demersal species commonly found in association with reefs and banks with limited interaction to marine mammals.
tuna, bigeye, yellowfin, swordfish	longline, surface (industrial)	6 E.U., 60 Seychelles longliners	not applicable	not applicable	Eastern & Western Indian ocean & Seychelles EEZ	Indo-Pacific bottlenose, common bottlenose, spinner dolphins	none provided	N/I, A/G, C/O	IOTC	MSRA: IOTC national report - http://www.iotc.org/documents/seychelles-national-report-0 . IOTC monitoring and compliance report 2017 - http://www.iotc.org/compliance/monitoring . FAO 2005 - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SC.pdf https://ec.europa.eu/fisheries/cfp/international/agreements/seychelles , http://www.fao.org/fi/oldsite/FCP/en/SYC/profile.htm , http://www.iotc.org/vessels/current Rabearisoa et al (2011) Marine mammal depredation and pelagic longline fishery: Second trials to assess the efficiency of a scaring mitigating device in Saint-Paul Bay (Reunion Island), March – May 2011. IRD/SWIOFP Report - http://horizon.documentation.ird.fr/exl-doc/pleins_textes/divers13-12/010060209.pdf	Longliners were flagged by Taiwan, Seychelles, and "other" (IOTC 2011).
tuna, swordfish, Shark, sailfish, marlin	longline (semi-industrial fleet)	7 - 9	not applicable	not applicable	Eastern & Western Indian ocean & Seychelles EEZ	Indo-Pacific bottlenose, common bottlenose, spinner dolphins, false killer whales	none provided	N/I, A/G	IOTC	IOTC national report 2011. https://ec.europa.eu/fisheries/cfp/international/agreements/seychelles , http://www.fao.org/fi/oldsite/FCP/en/SYC/profile.htm , http://www.iotc.org/vessels/current Rabearisoa et al (2011) Marine mammal depredation and pelagic longline fishery: Second trials to assess the efficiency of a scaring mitigating device in Saint-Paul Bay (Reunion Island), March – May 2011. IRD/SWIOFP Report - http://horizon.documentation.ird.fr/exl-doc/pleins_textes/divers13-12/010060209.pdf	
spanner crab	trap	none provided	not applicable	not applicable	Seychelles EEZ	none provided	none provided	N/I, A/G			

Sierra Leone

Exempt Fisheries

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
oysters	aquaculture -raft	none provided	none provided	none provided	coastal	none provided	none provided	A/G		U.S. Trade data	
Export Fisheries											
finfish (herring, mackerel)	trawl	none provided	none provided	none provided	none provided	none provided	none provided	A/G, N/I		U.S. Trade data; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SL.pdf	**IUU Fishing is a serious issue for Sierra Leone. Industrial fleet almost entirely foreign based.
squid	trawl	none provided	none provided	none provided	none provided	none provided	none provided	A/G, N/I		U.S. Trade data; http://mfmr.gov.sl/index.php/service-charter ; http://www.seaaroundus.org/illegal-foreign-fishing-and-lack-of-reporting-threaten-sierra-leones-fisheries-sector/#more-7828	On Ministry website, listed as cephalopod trawlers. One of Sierra Leone's largest fisheries. Also noted as occasional bycatch from shrimp trawlers (we have not imported shrimp from Sierra Leone).
tuna**	longline	0*	not applicable	not applicable	International Convention for the Conservation of Atlantic Tuna convention area	none provided	none provided	A/G, N/I	ICCAT	ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SL.pdf ; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_I1_4.pdf ; ICCAT website; http://www.europarl.europa.eu/RegData/etudes/BRIE/2016/586611/EPRS_BRI(2016)586611_EN.pdf	**The USA has not imported tuna from Sierra Leone. *No vessels listed under ICCAT; no fishing activity noted for 2014/2015. ICCAT info incomplete due to lack of reporting for several years. Note: deemed to have withdrawn from IOTC (2016)
tuna**	purse seine	0*	not applicable	not applicable	International Convention for the Conservation of Atlantic Tuna convention area	none provided	none provided	A/G, N/I	ICCAT	ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SL.pdf ; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_I1_4.pdf ; ICCAT website; http://www.europarl.europa.eu/RegData/etudes/BRIE/2016/586611/EPRS_BRI(2016)586611_EN.pdf ; http://mfmr.gov.sl/index.php/service-charter	Ministry website lists tuna purse seine as an option under licenses, but no indication of purse seiners actually operating. **The USA has not imported tuna from Sierra Leone. *No vessels listed under ICCAT; no fishing activity noted for 2014/2015. ICCAT info incomplete due to lack of reporting for several years. Note: deemed to have withdrawn from IOTC (2016)
Slovenia											
Exempt Fisheries											
European seabass	aquaculture cages	1	none provided	Not applicable	North Adriatic	none documented	none documented	A/G, N/I		EU provided	
Mediterranean mussel	aquaculture suspension	27	none provided	Not applicable	North Adriatic	none documented	none documented	A/G, N/I		EU provided	
warty venus (clam)	aquaculture suspension	2	none provided	Not applicable	North Adriatic	none documented	none documented	A/G, N/I		EU provided	
Export Fisheries with No Information											
mackerel	none provided	none provided	Not applicable	Not applicable	North Adriatic	none provided	none provided	N/I		U.S. Trade Data	National Decree on protected wild animal species prohibits the harming or killing of cetaceans and other marine mammals.
Solomon Islands											
Exempt Fisheries											
coral, shell, cuttlebone, trochus shell, rock lobster, clam	netting and hand collection	none provided	not applicable	not applicable	nearshore	none provided	none provided	A/G, N/I		U.S. Trade data. FAO (2009) - http://www.fao.org/fishery/facp/SLB/en Richards et al (1994) Inshore Fisheries Resources of Solomon Islands - http://www.sprep.org/att/IRC/eCOPIES/Countries/Solomon_Islands/9.pdf	
mackerel, shallow-reef finfish	Dropline, handline, troll, spear, gillnet	none provided	not applicable	not applicable	nearshore	none provided	none provided	A/G, N/I		U.S. Trade data. Richards et al (1994) Inshore Fisheries Resources of Solomon Islands - http://www.sprep.org/att/IRC/eCOPIES/Countries/Solomon_Islands/9.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna, yellowfin, bigeye, tuna-like species, sharks, billfish, rainbow runner, and triggerfish	purse seine	91 (8 local & 83 foreign)	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area	spinner and pan tropical dolphin	none provided	A/G, N/I		WCPFC national report. https://spccpstore1.blob.core.windows.net/digitalibrary-docs/files/7/762ce91df59de53fdb27653ad7e70d.pdf?sv=2015-12-11&sr=b&sig=NSxw1q3qS28UpMzu1Ru3FYJbo8FI2BUbCMQ178YzY%3D&se=2017-12-19T20%3A16%3A46Z&sp=&rscc=public%2C%20max-age%3D864000%2C%20max-stale%3D864000&rsct=application%2Fpdf&rscd=inline%3B%20filename%3D%22nfr_solomon.pdf%22 http://www.stuff.co.nz/sunday-star-times/latest-edition/7323890/Chinese-tuna-fleet-doubles-in-2-years , https://www.wcpfc.int/record-fishing-vessel-database?flag=Solomon+Islands&field_vessel_submitted_by_ccm_value=All&type=All&name=&ircs=&win=&vid=&imo=&auth_tranship_hs=All&fishing_methods=All	Vessel flagging: 2 Philippines, 2 Portugal, 1 Australia, 3 Korean, 1 Solomon Islands, based on Solomon gov data.
tuna, yellowfin, bigeye, tuna-like species	Pole and line	54 (23 local & 31 foreign)	not applicable	not applicable	Solomon Islands EEZ	none provided	none provided	A/G, N/I		U.S. Trade data. https://spccpstore1.blob.core.windows.net/digitalibrary-docs/files/7/762ce91df59de53fdb27653ad7e70d.pdf?sv=2015-12-11&sr=b&sig=NSxw1q3qS28UpMzu1Ru3FYJbo8FI2BUbCMQ178YzY%3D&se=2017-12-19T20%3A16%3A46Z&sp=&rscc=public%2C%20max-age%3D864000%2C%20max-stale%3D864000&rsct=application%2Fpdf&rscd=inline%3B%20filename%3D%22nfr_solomon.pdf%22	Vessel flagging: 1 Korean, based on Solomon gov data in 2000.
Export Fisheries											
mackerel, shallow-reef finfish	gillnet	none provided	not applicable	not applicable	nearshore	none provided	none provided	A/G, N/I		U.S. Trade data. Richards et al (1994) Inshore Fisheries Resources of Solomon Islands - http://www.sprep.org/at/IRC/eCOPIES/Countries/Solomon_Islands/9.pdf	
tuna, yellowfin, bigeye, tuna-like species, dolphinfish, sharks, billfish, opah, wahoo	Longline	35 (15 local & 20 foreign)	not applicable	not applicable	Western Central Pacific Fisheries Commission Convention Area	none provided	none provided	A/G, N/I	WCPFC	U.S. Trade data. WCPFC national report. https://spccpstore1.blob.core.windows.net/digitalibrary-docs/files/7/762ce91df59de53fdb27653ad7e70d.pdf?sv=2015-12-11&sr=b&sig=NSxw1q3qS28UpMzu1Ru3FYJbo8FI2BUbCMQ178YzY%3D&se=2017-12-19T20%3A16%3A46Z&sp=&rscc=public%2C%20max-age%3D864000%2C%20max-stale%3D864000&rsct=application%2Fpdf&rscd=inline%3B%20filename%3D%22nfr_solomon.pdf%22 http://www.stuff.co.nz/sunday-star-times/latest-edition/7323890/Chinese-tuna-fleet-doubles-in-2-years , https://www.wcpfc.int/record-fishing-vessel-database?flag=Solomon+Islands&field_vessel_submitted_by_ccm_value=All&type=All&name=&ircs=&win=&vid=&imo=&auth_tranship_hs=All&fishing_methods=All	
shark	Longline	none provided	not applicable	not applicable	Solomon Islands EEZ	none provided	none provided	N/I, A/G	WCPFC	U.S. Trade data. WCPFC. FAO (2009) - http://www.fao.org/chartered-shark-taiwanese-flag-fleet	
South Africa											
Exempt Fisheries											
coral, shells, cuttlebone	hand collection	none provided	none provided	none provided	none provided	none provided	none provided	A/G		U.S. Trade data	likely hand collection
hake, cod, groundfish	handline	130	not applicable	not applicable	none provided	none provided	none provided	A/G		U.S. Trade data. South Africa submission. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	Handline is exempt gear.
squid	jig	138	not applicable	not applicable	South Africa EEZ, Port Elizabeth and Port St. Francis area	none provided	none provided	A/G		U.S. Trade data, http://www.fao.org/fishery/facp/ZAF/en	Jig is exempt gear.
tuna (albacore, bigeye, bluefin, yellowfin, bonito), swordfish, shark	handline	5	not applicable	not applicable	Indian Ocean Tuna Commission Convention area	none documented	none documented	P, A/G	IOTC	NOAA Cetacean Bycatch Memo (2007). FAO 2010: http://www.fao.org/fishery/facp/ZAF/en , IOTC-2016-SC19-NR26_South_Africa.pdf, http://www.iotc.org/vessels/current	no observer program

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Linefish (>200 spp.): Snoek, yellowtail, geelbek, carpenter, slinger, kob, hottentot, santer, red Roman, Englishman, snapper shark	hook and line	455	not applicable	not applicable	South Africa EEZ	none provided	none provided	A/G		Mann BQ. (Ed). (2013) Southern African Marine Linefish Species Profiles. Special Publication, Oceanographic Research Institute, Durban: http://www.ori.org.za/uploads/files/Southern_African_Marine_Linefish_Species_Profiles.pdf World Wildlife Fund (2015) South African Linefish Procurement Guidelines: http://wwfsassi.co.za/wp-content/uploads/2015/05/South-African-Linefish-Procurement-Guidelines.pdf	Handline and rod & reel are exempt gears.
Snoek mackerel, yellowtail, mullet, silvers	handline	10+	not applicable	not applicable	South Africa EEZ	none provided	none provided	A/G		South Africa submission.	
tuna (albacore, bigeye, bluefin, yellowfin, bonito), swordfish, shark	handline	20	not applicable	not applicable	September-May, South Atlantic	none provided	none provided	A/G	ICCAT	MSRA. South Africa submission. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	
seaweed	aquaculture (lines)	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade data, http://www.fao.org/fishery/facp/ZAF/en	
Export Fisheries											
toothfish	longline	1	not applicable	not applicable	Subarea 48.3 (South Georgia Is.)	none provided	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	last active in 2010
toothfish	longline	1	not applicable	not applicable	Subarea 48.6	none provided	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	active
toothfish	longline	1	not applicable	not applicable	Subarea 58.4.2	none provided	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	last active in 2012
toothfish	longline	2	not applicable	not applicable	Subarea 58.6 (Crozet Island)	none provided	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	active
toothfish	longline	2	not applicable	not applicable	Subarea 58.7 (Prince Edward and Marion Is.)	none provided	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	active
toothfish	longline	1	not applicable	not applicable	Subarea 88.1-2	none provided	none provided	A/G, N/I	CCAMLR	U.S. Trade Data	last active in 2008
crab	Trap / Pot	none provided	not applicable	not applicable	none provided	none provided	none provided	A/G, N/I		U.S. Trade data. South Africa submission.	
shrimp and crustaceans	trawl	none provided	not applicable	not applicable	South Africa EEZ, Kwazulu Natal (KZN)	none provided	none provided	A/G		U.S. Trade data. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	
hake, cod, groundfish, flatfish	longline	64	not applicable	not applicable	none provided	none provided	none provided	A/G		U.S. Trade data. South Africa submission. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	
hake, cod, groundfish, kingklip, monkfish, flatfish	trawl, demersal	61 - 70	not applicable	not applicable	offshore, within South Africa EEZ	none provided	none provided	A/G		U.S. Trade data. South Africa submission. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en Wiedenfeld et al (2012) Analyses of Seabird bycatch in Fisheries Selling Seafood in the U.S. Market	
hake, cod, sole, groundfish	trawl	20 -31	not applicable	not applicable	inshore, Mossel Bay and Port Elizabeth on the south coast	none provided	none provided	A/G		U.S. Trade data. South Africa submission. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	
lobster (Species: South Coast Rock Lobster - <i>Palinurus gilchristi</i>)	Longline trap fishery	9	not applicable	not applicable	South Africa EEZ, Agulhas Bank	none reported	None	A/G, C/O		U.S. Trade data. South Africa submission. Meyer et al., 2011	Meÿer et al. (2011) report 96 records of large whale entanglement in fishing gear between 1975 and 2009, 60% of which were Southern right whales, 17% humpback whales and 23% unidentified; when gear could be identified, 74% was static bottom--deployed fisheries gear. There is spatial and temporal overlap between the lobster fisheries and whales, which may result in entanglements (Meÿer et al., 2011).
lobster (Species: West Coast Rock Lobster)	traps and hoop nets	105	not applicable	not applicable	South Africa EEZ, Cape west and southwest coasts between Cape Town and Cape Agulhas	none reported	None	A/G, C/O		U.S. Trade data. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	
octopus, cuttlefish	trawl	none provided	not applicable	not applicable	none provided	none provided	none provided	A/G		U.S. Trade data. South Africa submission.	
orange roughy	trawl, bottom	none provided	not applicable	not applicable	none provided	none provided	none provided	A/G		U.S. Trade data. South Africa submission.	
sardine, anchovy sardinella, brisling, sprat, pilchard, round herring	purse seine	100	not applicable	not applicable	none provided	none provided	none provided	A/G		U.S. Trade data. South Africa submission. FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (albacore, bigeye, bluefin, yellowfin, bonito), swordfish, shark	longline	47	not applicable	not applicable	South Atlantic	none provided	none provided	A/G	ICCAT	MSRA, South Africa submission, FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	mandatory logbook reporting, occasional observer coverage
tuna (albacore, bigeye, bluefin, yellowfin, bonito), swordfish, shark	longline	22	not applicable	not applicable	Indian Ocean Tuna Commission Convention area	common dolphin, killer whale, unidentified dolphin	1, 1, 1	A/G	IOTC	NOAA Cetacean Bycatch Memo (2007), FAO 2010: http://www.fao.org/fishery/facp/ZAF/en , IOTC-2016-SC19-NR26_South_Africa.pdf, http://www.iotc.org/vessels/current	
none provided - unknown target species	gillnet, bottom trawl, driftnet, bottom-set net	none provided	not applicable	not applicable	South Africa EEZ	Heaviside's, Indian humpback, bottlenose, striped, common dolphin; false killer whale.	57 Heaviside's/yr.; 20-23 bottlenose/yr.; 33 common/yr.	P, A/G		NOAA Cetacean Bycatch Memo (2007)	
sharks	longline	31	not applicable	not applicable	Natal, EEZ and outside EEZ	Indian humpback and bottlenose dolphin	7-8/yr.	P, A/G		NOAA Cetacean Bycatch Memo (2007). South Africa submission, FAO 2010: http://www.fao.org/fishery/facp/ZAF/en	
marine fishes (black ruff, blue nose, grouper, cusk eel (kingklip)), snapper	longline	10+	not applicable	not applicable	South Africa EEZ	none provided	none provided	A/G		South Africa submission.	
dorado (mahi mahi), marlin, spearfish, kingfish (gastoro), oilfish, sailfish, moonfish, skipjack tuna, snoek mackerel, wahoo	longline	10+	not applicable	not applicable	South Africa EEZ	none provided	none provided	A/G		U.S. Trade Data	
redfish (Jacopever), horse mackerel, john dory, panga, ribbonfish, skate, mullet, blue nose, grouper, bass, butterfish	trawl	10+	not applicable	not applicable	South Africa EEZ, Agulhas Bank	Cape fur seals, bottlenose and common dolphins	106 Cape fur seals/yr. 1.4 bottlenose and 1.2 common dolphin/yr.	A/G, P		South Africa submission, http://www.fao.org/fishery/facp/ZAF/en	
Mackerel, mullet, pilchards	purse seine	10+	not applicable	not applicable	South Africa EEZ	none provided	none provided	A/G		South Africa submission.	
Mullet	net	10+	not applicable	not applicable	South Africa EEZ	none provided	none provided	A/G		South Africa submission.	
Export Fisheries with No Information											
salmon	aquaculture	none provided	none provided	not applicable	offshore, off Gansbaai within South Africa EEZ	none provided	none provided	N/I		http://www.fao.org/fishery/facp/ZAF/en	
lobster (homarus)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	likely processed/re-exported or CBP error
South Korea											
Exempt Fisheries											
rockfish, pufferfish	angling	5	Not applicable	Not applicable	year-round, West Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
squid, plaice, conger, daggertooth pike conger, japanese spanish mackerel, rockfish, puffer fish, mackerel	angling	115	Not applicable	Not applicable	year-round, South Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
squid, puffer fish, mackerel, cuttlefish	angling	312	Not applicable	Not applicable	May-March, East Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
squid	angling	22	Not applicable	Not applicable	year-round, Atlantic Ocean	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
squid	angling	48	Not applicable	Not applicable	July-Nov., Russian Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
manila clam, sea cucumber, sea urchin, conch, fan mussel, oyster, scallop	hand collection by diving	228	Not applicable	Not applicable	year-round, South Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
small octopus, manila clam, sea cucumber, sea urchin, conch, fan mussel, oyster, scallop	hand collection by diving	328	Not applicable	Not applicable	year-round, West Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
sea cucumber, manila clam, sea urchin, conch, fan mussel	hand collection by diving with equipment	37	Not applicable	Not applicable	year-round, West Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
sea cucumber, manila clam, sea urchin, conch, fan mussel, ark shell, red shell, cockle, abalone, mussel	hand collection by diving with equipment	181	Not applicable	Not applicable	year-round, South Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
sea cucumber, octopus, abalone, sea urchin	hand collection by diving with equipment	18	Not applicable	Not applicable	year-round, East Sea	none provided	none provided	A/G		Korea provided, U.S. Trade Data	
seaweed (sea mustard, kelp, fusiforme seaweed)	floating aquaculture	49	none provided	Not applicable	September-May, floating in West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
seaweed (sea mustard, kelp, fusiforme seaweed)	floating aquaculture	1319	none provided	Not applicable	September-May, floating South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
seaweed (sea mustard, kelp)	floating aquaculture	46	none provided	Not applicable	September-May, floating East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
oyster	hanging aquaculture	268	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
oyster	hanging aquaculture	774	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
fan mussel	aquaculture (hand collection)	29	none provided	Not applicable	South Sea	none provided	none provided	PA		Korea provided, U.S. Trade Data	
Pacific saury	stick-held dip net	21	Not applicable	Not applicable	year-round, Pacific Ocean	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
Pacific saury	stick-held dip net	21	Not applicable	Not applicable	year-round, Russia	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea squirt	hanging aquaculture	230	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea squirt	hanging aquaculture	128	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
abalone	cage aquaculture	6	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
abalone	cage aquaculture	828	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
abalone	cage aquaculture	25	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
flounder	cage aquaculture	2	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
flounder	cage aquaculture	10	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea bream (red)	cage aquaculture	5	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea-bream (red)	cage aquaculture	3	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea-bream (red)	cage aquaculture	432	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea-bream (black)	cage aquaculture	237	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
yellowtail	cage aquaculture	12	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
yellowtail	cage aquaculture	3	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea bass	cage aquaculture	2	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
sea bass	cage aquaculture	201	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
salmon	cage aquaculture	1	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
mackerel	cage aquaculture	19	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
rock bream	cage aquaculture	134	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
rock bream	cage aquaculture	5	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
brown croaker	cage aquaculture	8	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
rockfish	cage aquaculture	672	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	previously listed as export
rockfish	cage aquaculture	104	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	previously listed as export
grouper	cage aquaculture	83	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
pufferfish	cage aquaculture	4	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
thread-sail filefish	cage aquaculture	83	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
bluefin tuna	cage aquaculture	2	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
gray mullet	cage aquaculture	90	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
gray mullet	cage aquaculture	17	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
scallop	hanging aquaculture	4	none provided	Not applicable	year-round, West Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
scallop	hanging aquaculture	31	none provided	Not applicable	year-round, South Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
scallop	hanging aquaculture	30	none provided	Not applicable	year-round, East Sea	none provided	none provided	N/I, A/G		Korea provided, U.S. Trade Data	
anchovy	bamboo weir	47	Not applicable	Not applicable	year-round, South Sea	none documented	none documented			Korea provided, U.S. Trade Data	
anchovy	anchovy lever lift net	389	Not applicable	Not applicable	year-round, South Sea	none documented	none documented			Korea provided, U.S. Trade Data	
shrimp	mosquito net	4800	Not applicable	Not applicable	Sept-Dec., West Sea	none documented	none documented				
krill	trawl, midwater	3	Not applicable	Not applicable	Antarctic Peninsula Subareas 48.1-4	Antarctic fur seal		A/G, P	CCAMLR	Korea provided, U.S. Trade Data	active
tuna (albacore, bigeye, bluefin, yellowfin, skipjack)	purse seine	27	Not applicable	Not applicable	year-round, Pacific Ocean	none documented	none documented	A/G	WCPFC no intentional encirclement of cetaceans	WCPFC Convention Area,	
tuna (bigeye, yellowfin, skipjack)	purse seine	5	Not applicable	Not applicable	year-round, Indian Ocean	none documented	none documented	A/G	IOTC no intentional encirclement of cetaceans	Korea provided, U.S. Trade Data	
pacific herring, sailfin sandfish, plaice, pacific cod, shrimp, squid, brown croaker, cuttlefish	danish seine	47	Not applicable	Not applicable	June-April, East Sea	none documented	none documented			Korea provided_v2	
brown croaker, blackmouth angler (monkfish), blackthroat seaperch, yellow croaker, plaice, shrimp	danish seine	82	Not applicable	Not applicable	June-April, South Sea	none documented	none documented			Korea provided_v2	
icefish	trawl, midwater	2	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	none documented	none documented	A/G	CCAMLR	Korea provided, U.S. Trade Data	last active in 2014
Export Fisheries											
toothfish	pot	1	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	none documented	none documented	A/G	CCAMLR	Korea provided, U.S. Trade Data	last active in 2008
toothfish	longline	5	Not applicable	Not applicable	December-March, Southern Ocean	none provided	none provided	A/G, N/I	CCAMLR	Korea provided, U.S. Trade Data	
toothfish	longline	6	Not applicable	Not applicable	year-round, Atlantic Ocean	none provided	none provided	A/G, N/I		Korea provided, U.S. Trade Data	
mussel	hanging aquaculture	212	none provided	Not applicable	year-round, South Sea	Northern Pacific right whale (Southern Sea)	1	P		Korea provided, U.S. Trade Data	
mussel	hanging aquaculture	8	none provided	Not applicable	year-round, West Sea	none provided	none provided	A/G			
mussel	hanging aquaculture	139	none provided	Not applicable	year-round, East Sea	north pacific right whale	1	P		Korea provided, U.S. Trade Data, MSRA database	
monkfish	bream trawl	545	Not applicable	Not applicable	year-round, West Sea - Jeonnam	common minke whale, bottlenose dolphin	1, 8 (2014-15)	A/G, P		Korea provided, U.S. Trade Data	
conger eel, small octopus	fish pot	594	Not applicable	Not applicable	year-round, East Sea	common dolphin, common minke whale, fin whale, finless whale, killer whale, pacific white-sided dolphin, Risso's dolphin, short-finned pilot whale, humpback whale, Cuvier's beaked whale	257, 57, 1, 2, 1, 4, 2, 1, 18, 2 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
snow crab, red crab	traps	655	Not applicable	Not applicable	seasonal, East Sea	common dolphin	9				
octopus, small octopus, snailfish, conger eel, crab	traps	4104	Not applicable	Not applicable	year-round, South Sea	finless porpoise, Indo-Pacific bottlenose dolphin	6, 1				
conger eel, spotted belly greenling, small octopus, octopus, swimming crab	traps	516	Not applicable	Not applicable	year-round, West Sea	finless porpoise	29				

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
flounder	gillnet	none provided	Not applicable	Not applicable	East Sea/South Sea	common dolphin, long-beaked, Pacific White-Sided Dolphin, Harbor Porpoise, Finless Porpoise, Stejneger's Beaked Whale, Bryde's Whale, Common Minke Whale, False Killer Whale, Short-Finned Pilot Whale, Common Bottlenose dolphin, killer whale, Risso's dolphin, Dall's porpoise	730, 34, 54, 45, 1, 1, 100, 1, 1, 30, 1, 58, 3	A/G, P		Korea provided, U.S. Trade Data	
porgy	gillnet	none provided	Not applicable	Not applicable	East Sea/South Sea	common dolphin, long-beaked, Pacific White-Sided Dolphin, Harbor Porpoise, Finless Porpoise, Stejneger's Beaked Whale, Bryde's Whale, Common Minke Whale, False Killer Whale, Short-Finned Pilot Whale, Common Bottlenose dolphin, killer whale, Risso's dolphin, Dall's porpoise	730, 34, 54, 45, 1, 1, 100, 1, 1, 30, 1, 58, 3	A/G, P		Korea provided, U.S. Trade Data	
halibut, croaker, filefish, bass, plaice, gray mullet, yellowtail, cod, sole, crab	gillnet	3791	Not applicable	Not applicable	year-round, West Sea	common minke whale, finless porpoise	5, 168 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
halibut, filefish, bass, gray mullet, sand lance, yellowtail, sole, crab	gillnet	6076	Not applicable	Not applicable	year-round, South Sea	finless porpoise, common minke whale, indo-pacific bottlenose dolphin, bottlenose dolphin, common dolphin	60, 8, 2, 20, 1 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
halibut, croaker, filefish, bass, gray mullet, sole, cod, crab	gillnet	3437	Not applicable	Not applicable	year-round, East Sea	common dolphin, common minke whale, finless porpoise, pacific white-sided dolphin, Bryde's whale, Stejneger's beaked whale, Baird's beaked whale, bottlenose dolphin, Risso's dolphin, Dall's porpoise, false killer whale, short-finned pilot whale, killer whale, humpback whale, harbor porpoise, unidentified	1002, 51, 73, 170, 1, 1, 1, 22, 60, 3, 2, 1, 1, 1, 168, 2 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
halibut, croaker, filefish, bass, plaice, gray mullet, cod, sole, yellowtail, crab	gillnet	none provided	Not applicable	Not applicable	year-round, Unknown Sea and province	spotted seal	1 (2012)	A/G, P		Korea provided, U.S. Trade Data	
Pacific saury, cuttffish, sand lance, skates and rays	gillnet	57	Not applicable	Not applicable	year-round, West Sea	common minke whale, finless porpoise	5, 168 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
Pacific saury, cuttffish, skates and rays	gillnet	314	Not applicable	Not applicable	year-round, South Sea	finless porpoise, common minke whale, indo-pacific bottlenose dolphin, bottlenose dolphin, common dolphin	60, 8, 2, 20, 1 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Pacific saury, cuttlefish, yellowtail, skates and rays	gillnet	58	Not applicable	Not applicable	year-round, East Sea	common dolphin, common minke whale, finless porpoise, pacific white-sided dolphin, Bryde's whale, Stejneger's beaked whale, Baird's beaked whale, bottlenose dolphin, Risso's dolphin, Dall's porpoise, false killer whale, short-finned pilot whale, killer whale, humpback whale, harbor porpoise, unidentified	1002, 51, 73, 170, 1, 1, 1, 22, 60, 3, 2, 1, 1, 1, 168, 2 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
Pacific saury, cuttlefish, yellowtail, skates and rays	gillnet	none provided	Not applicable	Not applicable	year-round, Unknown Sea and province	spotted seal	1 (2012)	A/G, P		Korea provided, U.S. Trade Data	
shrimp, snow crab	gillnet	3848	Not applicable	Not applicable	year-round, West Sea	common minke whale, finless porpoise	5, 168 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
shrimp, snow crab, monkfish	gillnet	6390	Not applicable	Not applicable	year-round, South Sea	finless porpoise, common minke whale, indo-pacific bottlenose dolphin, bottlenose dolphin, common dolphin	60, 8, 2, 20, 1 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
shrimp, snow crab, monkfish	gillnet	3495	Not applicable	Not applicable	year-round, East Sea	common dolphin, common minke whale, finless porpoise, pacific white-sided dolphin, Bryde's whale, Stejneger's beaked whale, Baird's beaked whale, bottlenose dolphin, Risso's dolphin, Dall's porpoise, false killer whale, short-finned pilot whale, killer whale, humpback whale, harbor porpoise, unidentified	1002, 51, 73, 170, 1, 1, 1, 22, 60, 3, 2, 1, 1, 1, 168, 2 (2012-16)	A/G, P		Korea provided, U.S. Trade Data	
shrimp, snow crab, monkfish	gillnet	none provided	Not applicable	Not applicable	Unknown Sea and province	spotted seal	1 (2012)	A/G, P		Korea provided, U.S. Trade Data	
plaice, pacific herring, sailfin sandfish, anchovy	gillnet	4009	Not applicable	Not applicable	year-round, East Sea	bottlenose dolphin, common dolphin, common minke whale, finless porpoise, false killer whale, harbor porpoise, killer whale, humpback whale, pacific white-sided dolphin, short-finned pilot whale, Risso's dolphin	234, 771, 51, 74, 2, 40, 1, 1, 167, 1, 2			Korea provided_v2	
yellow croaker, gizzard shad, anchovy, pacific cod, plaice, hairtail, mackerel	gillnet	8067	Not applicable	Not applicable	year-round, South Sea	common minke whale, finless porpoise, common dolphin, Indo-Pacific bottlenose dolphin	8, 60, 1, 2			Korea provided_v2	
swimming crab, blackmouth angler (monkfish)	gillnet	4800	Not applicable	Not applicable	year-round, West Sea	common minke whale, finless porpoise	5, 168			Korea provided_v2	
tuna (bigeye, bluefin, yellowfin), swordfish	longline	132	Not applicable	Not applicable	year-round, Pacific Ocean	none documented	none documented	A/G	WCPFC	WCPFC Convention Area	
tuna (bigeye, bluefin, yellowfin), swordfish	longline	6	Not applicable	Not applicable	year-round, Atlantic Ocean	none documented	none documented	A/G	ICCAT	ICCAT Convention Area	
tuna (bigeye, bluefin, yellowfin), swordfish	longline	8	Not applicable	Not applicable	year-round, Indian Ocean	none documented	none documented	A/G	IOTC	IOTC Convention Area	
hairtail, octopus	longline	17	Not applicable	Not applicable	year-round, West Sea	spotted seal, bottlenose dolphin, finless porpoise, common minke whale	1, 1, 1, 1 (2012, 2015)	A/G, P		Korea provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
conger eel, hairtail, skates and rays, octopus	longline	6	Not applicable	Not applicable	year-round, East Sea	pacific white-sided dolphin, common dolphin, Risso's dolphin	1, 6, 58 (2012, 2015-16)	A/G, P		Korea provided, U.S. Trade Data	
gray mullet, small octopus	longline	4,022	Not applicable	Not applicable	year-round, West Sea	spotted seal, bottlenose dolphin, finless porpoise, common minke whale	1, 1, 1, 1 (2012, 2015)	A/G, P		Korea provided, U.S. Trade Data	
gray mullet, small octopus	longline	14,501	Not applicable	Not applicable	year-round, South Sea	common minke whale, common dolphin	1, 1 (2012, 2015)	A/G, P		Korea provided, U.S. Trade Data	
gray mullet, small octopus	longline	1,555	Not applicable	Not applicable	year-round, East Sea	pacific white-sided dolphin, common dolphin, Risso's dolphin	1, 6, 58 (2012, 2015-16)	A/G, P		Korea provided, U.S. Trade Data	
cod, skates and rays	longline	2	Not applicable	Not applicable	year-round, Russia	none provided	none provided	A/G, N/I		Korea provided, U.S. Trade Data	
rockfish	longline	none provided	Not applicable	Not applicable	East Sea	Harbor Porpoise, long-beaked common dolphin, Finless Porpoise, Common Minke Whale	1, 1, 1, 1	A/G, P		Korea provided, U.S. Trade Data	
rockfish	longline	none provided	Not applicable	Not applicable	South Sea	Harbor Porpoise, long-beaked common dolphin, Finless Porpoise, Common Minke Whale	1, 1, 1, 1	A/G, P		Korea provided, U.S. Trade Data	
greenling	longline	none provided	Not applicable	Not applicable	East Sea	Harbor Porpoise, long-beaked common dolphin, Finless Porpoise, Common Minke Whale, Risso's dolphin	1, 1, 1, 1	A/G, P		Korea provided, U.S. Trade Data	
Octopus, skates and rays	longline	230	Not applicable	Not applicable	year-round, South Sea	common minke whale, common dolphin	1, 1 (2012, 2015)	A/G, P		Korea provided, U.S. Trade Data	
pufferfish, plaice	longline	6	Not applicable	Not applicable	year-round, East Sea	common dolphin, pacific white-sided dolphin	6, 1			Korea provided_v2	
hairtail, pufferfish, pacific cod, plaice, conger eel, red tilefish, Japanese Spanish mackerel	longline	230	Not applicable	Not applicable	year-round, South Sea	common minke whale, common dolphin, bottlenose dolphin, spotted seal, common minke whale, finless porpoise	1, 1			Korea provided_v2	
plaice, conger eel, skates and rays, Japanese spanish mackerel	longline	15	Not applicable	Not applicable	year-round, West Sea	long-beaked common dolphin, Pacific White-Sided Dolphin, Finless Porpoise, Harbor Porpoise, Common Minke Whale, Dall's porpoise	38, 1, 3, 19, 25, 1, 1	P		Korea provided, U.S. Trade Data	
squid	pound net	none provided	Not applicable	Not applicable	year-round, East Sea	long-beaked common dolphin, Pacific White-Sided Dolphin, Finless Porpoise, Harbor Porpoise, Common Minke Whale, Dall's porpoise	38, 1, 3, 19, 25, 1, 1	P		Korea provided, U.S. Trade Data	
amberjack	pound net	none provided	Not applicable	Not applicable	none provided	long-beaked common dolphin, Pacific White-Sided Dolphin, Finless Porpoise, Harbor Porpoise, Common Minke Whale, Dall's porpoise	38, 1, 3, 19, 25, 1, 1	P		Korea provided, U.S. Trade Data	
herring	pound net	none provided	Not applicable	Not applicable	East Sea	long-beaked common dolphin, Pacific White-Sided Dolphin, Finless Porpoise, Harbor Porpoise, Common Minke Whale, Dall's porpoise	38, 1, 3, 19, 25, 1, 1	P		Korea provided, U.S. Trade Data	
tuna (bigeye, bluefin)	purse seine	1	Not applicable	Not applicable	year-round, Atlantic Ocean	none documented	none documented			Korea provided, U.S. Trade Data, cetacean bycatch appendix	
filefish	purse seine	95	Not applicable	Not applicable	South Sea	finless porpoise, bottlenose dolphins	10 (2014), 20	A/G, P		Korea provided, U.S. Trade Data	
filefish, plaice	purse seine	43	Not applicable	Not applicable	East Sea	common dolphin	1 (2015)	A/G, P		Korea provided, U.S. Trade Data	
herring	Purse seine	33	Not applicable	Not applicable	year-round, West Sea - unspecified	none provided	none provided	A/G, P		Korea provided, U.S. Trade Data	
herring	Purse seine	54	Not applicable	Not applicable	year-round, South Sea - Gyeongnam	finless porpoise, bottlenose dolphins	10 (2014), 20	A/G, P		Korea provided, U.S. Trade Data, cetacean bycatch appendix	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
mackerel, Japanese Spanish mackerel, pacific herring, squid, shrimp, pacific saury	purse seine	37	Not applicable	Not applicable	May-March, East Sea	common dolphin	1			Korea provided_v2	
anchovy, pacific herring, gizzard shad, horse mackerel, horn fish, Japanese Spanish mackerel, mackerel, pacific saury, haritail, yellowtail, sardine, bluefin tuna	purse seine	327	Not applicable	Not applicable	May-March, South Sea	finless porpoise	10			Korea provided_v2	
Japanese Spanish mackerel, mackerel, yellowtail	purse seine	105	Not applicable	Not applicable	May-March, West Sea	none documented	none documented			Korea provided_v2	
cod	set net	7	Not applicable	Not applicable	year-round, West Sea/Yellow Sea	spotted seal, common minke whale	1, 1 (2014-15)	P		Korea provided, U.S. Trade Data	
cod	set net	521	Not applicable	Not applicable	year-round, South Sea	common minke whale, finless porpoise	20, 10 (2012-16)	P		Korea provided, U.S. Trade Data	
cod	set net	17	Not applicable	Not applicable	year-round, East Sea	common dolphin, common minke whale, finless porpoise, harbor porpoise, pacific white-sided dolphin, spotted seal, Dall's porpoise, Risso's dolphin, northern fur seal, spotted seal, bottlenose dolphin	605, 132, 6, 16, 58, 3, 1, 1, 2, 1, 20 (2012-16)	P		Korea provided, U.S. Trade Data	
yellowtail	set net	21	Not applicable	Not applicable	year-round, West Sea/Yellow Sea - Jeonbok	spotted seal, common minke whale	1, 1 (2014-15)	P		Korea provided, U.S. Trade Data	
squid, pacific herring, yellowtail, horse mackerel, Japanese Spanish mackerel, mackerel, atka mackerel	set net	181	Not applicable	Not applicable	year-round, East Sea	common dolphin, common minke whale, finless porpoise, harbor porpoise, pacific white-sided dolphin, spotted seal, Dall's porpoise, Risso's dolphin, northern fur seal	605, 132, 6, 16, 14, 4, 1, 1, 55 (2012-16)			Korea provided_v2	
yellowtail, horse mackerel, Japanese Spanish mackerel, mackerel	set net	294	Not applicable	Not applicable	year-round, South Sea	common minke whale, finless porpoise	20, 10			Korea provided_v2	
gizzard shad, cuttffish	set net	21	Not applicable	Not applicable	year-round, West Sea	spotted seal	1			Korea provided_v2	
halibut, anchovy, shrimp, hairtail, croaker, cuttlefish, sand lance	stow net	59	Not applicable	Not applicable	year-round, South Sea	common minke whale, finless porpoise	3, 19 (2012-16)				
pomfret	stow net	549	Not applicable	Not applicable	year-round, West Sea/Yellow Sea	common minke whale, finless porpoise, spotted seal, fin whale, Risso's dolphin	20, 4925, 1, 1, 1 (2012-16)	P		Korea provided, U.S. Trade Data	
pomfret	stow net	109	Not applicable	Not applicable	year-round, South Sea	common minke whale, finless porpoise	3, 19 (2012-16)	P		Korea provided, U.S. Trade Data	
anchovy, swimming crab, yellow croaker, blackmouth angler, shrimp, cuttffish, hairtail, flatfish, pacific sand lanse, flounder, croaker, common hairfin anchovy	stow net	631	Not applicable	Not applicable	year-round, West Sea	common minke whale, finless porpoise, Risso's dolphin, spotted seal, fin whale	20, 4925, 1, 1, 1	P		Korea provided_v2	
shrimp	traps	no information	Not applicable	Not applicable	year-round, Yellow Sea	Common Minke Whale	3	A/G, P		Korea provided, U.S. Trade Data	
squid	trawl	none provided	Not applicable	Not applicable	year-round, Pacific Ocean - Sea of Japan	Pacific White-Sided Dolphin, Finless Porpoise, Common Minke Whale	28, 545, 68	A/G, P		IWC 2010-12	
squid	trawl	12	Not applicable	Not applicable	year-round, Atlantic Ocean	Pacific White-Sided Dolphin, Finless Porpoise, Common Minke Whale	28, 545, 68	A/G, P		Korea provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
angler fish	trawl	none provided	Not applicable	Not applicable	year-round, Sea of Japan	Pacific White-Sided Dolphin, Finless Porpoise, Common Minke Whale	28, 545, 68	A/G, P		Korea provided, IWC 2010-12	
sole, cuttlefish	trawl	64	Not applicable	Not applicable	year-round, South Sea	bottlenose dolphin, common dolphin, common minke whale, finless porpoise, false killer whale	1, 5, 4, 743, 1 (2013-15)	A/G, P		Korea provided, U.S. Trade Data	
pomfret	trawl	81	Not applicable	Not applicable	year-round, South Sea	bottlenose dolphin, common dolphin, common minke whale, finless porpoise, false killer whale	1, 5, 4, 743, 1 (2013-15)	A/G, P		Korea provided, U.S. Trade Data	
webfoot octopus	trawl	78	Not applicable	Not applicable	year-round, West Sea - Jeonnam	common minke whale, bottlenose dolphin	1, 8 (2014-15)	A/G, P		Korea provided, U.S. Trade Data	
rock lobster	trawl	17	Not applicable	Not applicable	year-round, South Sea	bottlenose dolphin, common dolphin, common minke whale, finless porpoise, false killer whale	1, 5, 4, 743, 1 (2012-15)	A/G, P		Korea provided, U.S. Trade Data	
filefish, squid	trawl	52	Not applicable	Not applicable	year-round, South Sea	bottlenose dolphin, common dolphin, common minke whale, finless porpoise, false killer whale	1, 5, 4, 743, 1 (2013-15)	A/G, P		Korea provided, U.S. Trade Data	
squid, pacific herring, skates(?- "skin peel fish"), plaice, horse mackerel	trawl	38	Not applicable	Not applicable	year-round, East Sea	bottlenose dolphin, common minke whale, pacific white-sided dolphin, Dall's porpoise, common dolphin, finless porpoise	2, 3, 2, 1, 7, 2			Korea provided_v2	
Japanese Spanish mackerel, hairtail, brown croaker, anchovy, red seabream, mackerel	trawl	52	Not applicable	Not applicable	year-round, South Sea	common minke whale, finless porpoise, bottlenose dolphin, common dolphin, false killer whale	4, 743, 1, 5, 1			Korea provided_v2	
alaskan pollock, pacific cod, pacific saury, pacific herring, puffer fish	trawl	3	Not applicable	Not applicable	May-Dec., Russian Sea	none documented	none documented			Korea provided_v2	
hairtail, rays, mackerel, cod, brown croaker, armored weaselfish (cusk eel), sardine, horse mackerel	trawl	23	Not applicable	Not applicable	year-round, Atlantic Ocean	none documented	none documented			Korea provided_v2	
horse mackerel	trawl	1	Not applicable	Not applicable	year-round, Pacific Ocean	none documented	none documented			Korea provided_v2	
anchovy	anchovy drag net	379	Not applicable	Not applicable	July-March, South Sea	none documented	none documented			Korea provided_v2	
octopus	octopus pot	7	Not applicable	Not applicable	year-round, South Sea	none documented	none documented			Korea provided_v2	
shrimp	bream trawl	596	Not applicable	Not applicable	Oct-May, South Sea	none documented	none documented			Korea provided_v2	
yellowtail, horse mackerel, flat fish, sailfin sandfish	rectangular stationary net	104	Not applicable	Not applicable	year-round, East Sea	none documented	none documented			Korea provided_v2	
sea bass, pacific cod, anchovy, flat fish	rectangular stationary net	1152	Not applicable	Not applicable	year-round, South Sea	none documented	none documented			Korea provided_v2	
flathead mullet, yellowtail, horse mackerel, red seabream	rectangular stationary net	116	Not applicable	Not applicable	year-round, West Sea	none documented	none documented			Korea provided_v2	
Export Fisheries with No Information											
none provided	gillnet	none provided	Not applicable	Not applicable	East Sea - Sea of Japan	killer whale, harbor porpoise, false-killer whale	30	A/G, P		IWC SC66a Report_Appendix L_Small Cetaceans	
none provided	poundnet	none provided	Not applicable	Not applicable	East Sea - Sea of Japan	Dall's porpoise, finless porpoise	1200	P		IWC SC66a Report_Appendix L_Small Cetaceans	
none provided	traps	none provided	Not applicable	Not applicable	East Sea - Sea of Japan	Risso's dolphin, long-beaked common dolphin	500	A/G, P		IWC SC66a Report_Appendix L_Small Cetaceans	
none provided	other	none provided	none provided	Not applicable	East Sea - Gyeongbuk	common dolphin	1 (2016)	N/I		Korea provided	
none provided	unknown	none provided	none provided	Not applicable	East Sea	finless porpoise	9 (2012)	N/I		Korea provided	
none provided	unknown	none provided	none provided	Not applicable	South Sea	finless porpoise	14 (2012)	N/I		Korea provided	

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none provided	unknown	none provided	none provided	Not applicable	West Sea	common dolphin, common minke whale, finless porpoise, pacific white-sided dolphin, spotted seal	5, 3, 705, 2, 1 (2013-16)	N/I		Korea provided	
capelin/smelt	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	Frozen, received annually (70,000+ Kilos in 2017)
Spain											
Exempt Fisheries											
clams	coastal aquaculture	none provided	none provided	not applicable	year-round, seashore, Mediterranean and Black Sea (FAO 37)	None documented	None documented	A/G		EU-provided	
clams	coastal aquaculture	none provided	none provided	not applicable	year-round, seashore, Northeast Atlantic (FAO 27)	None documented	None documented	A/G		EU-provided	
bonito	pole and line	750	not applicable	not applicable	year-round; Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
bonito	pole and line	750	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
bonito	pole and line	750	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
sea cucumber	hand collection/diving	160	not applicable	not applicable	year-round; Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
sea cucumber	hand collection/diving	140	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
sea cucumber	hand collection/diving	600	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
sea urchin	diving	not applicable	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
scallops	coastal aquaculture	none provided	none provided	not applicable	EEZ year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
mussels	Aquaculture	none provided	none provided	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	N/I		EU-provided	
mussels	Aquaculture	none provided	none provided	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	N/I		EU-provided	
mussels	Aquaculture	none provided	none provided	not applicable	year-round, Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	N/I		EU-provided	
oyster	Aquaculture	none provided	none provided	not applicable	year-round, seashore, Mediterranean and Black Sea (FAO 37)	None documented	None documented	N/I		EU-provided	
oyster	Aquaculture	none provided	none provided	not applicable	year-round, Eastern Central Atlantic (FAO 34)	None documented	None documented	N/I		EU-provided	
oyster	Aquaculture	none provided	none provided	not applicable	year-round, seashore, Northeast Atlantic (FAO 27)	None documented	None documented	N/I		EU-provided	
gilthead bream	Aquaculture	none provided	none provided	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	N/I		EU-provided	
bass	Aquaculture	none provided	none provided	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	N/I		EU-provided	
turbot	Aquaculture	none provided	none provided	not applicable	year-round, Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	N/I		EU-provided	
bluefin tuna	Aquaculture	none provided	none provided	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	N/I		EU-provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (yellowfin, bigeye, skipjack)	purse seine	27.0	not applicable	not applicable	year-round Western Pacific (FAO 61)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G	WCPFC	EU-provided	
tuna (yellowfin, bigeye, skipjack)	purse seine	27.0	not applicable	not applicable	year-round Eastern Central Pacific (FAO 67)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G	WCPFC	EU-provided	
toothfish	longline	2	not applicable	not applicable	South Georgia Island (CCAMLR Subarea 48.3)	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data	active
toothfish	longline	1*	not applicable	not applicable	East Antarctica (CCAMLR Subarea 58.4.1)	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data	*last active in 2012
toothfish	longline	1	not applicable	not applicable	CCAMLR Subarea 58.4.3a-b	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data	active
toothfish	longline	1	not applicable	not applicable	CCAMLR Subarea 88.1-2	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data	active
Export Fisheries											
swordfish	longline	196	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	Risso's dolphin, unidentified beaked whale	few	C/O, A/G, P		EU-provided, Cetacean Bycatch Appendix	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Northeast Atlantic (FAO 27)	humpback whale, pygmy sperm whale	1, 1	C/O, A/G, P		EU-provided, MSRA Database: IWC 2011	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Southeast Atlantic (FAO 47)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Southwest Atlantic (FAO 41)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Western Indian Ocean (FAO 51)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Eastern Indian Ocean (FAO 57)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Western Central Pacific (FAO 71)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round, Southwest Pacific (FAO 81)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round Southeast Pacific (FAO 87)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round Eastern Central Pacific (FAO 77)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round Northwest Atlantic (FAO 21)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round Western Central Atlantic (FAO 31)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round Western Pacific (FAO 61)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	196 vessels operate across FAO areas (37, 27, 34, 47, 41,51,57,71,81,87,77, 21,31,61,67) Noted that all marine mammal interactions are reported to RFMOs
swordfish	longline	196	not applicable	not applicable	year-round Eastern Central Pacific (FAO 67)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	2015-2016 import trade data, https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_16-17_1_3.pdf Noted that all marine mammal interactions are reported to RFMOs
sharks	longline	none provided	none provided	none provided	ICCAT Convention Area year-round, Mediterranean and Black Sea (FAO 37)	none provided	none provided	N/I	ICCAT		
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	bottlenose dolphin, striped dolphin	hundred striped dolphin (1994)	P, A/G		EU-provided, MSRA Database: ICCAT, IWC, Cetacean Bycatch Appendix	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	none provided	not applicable	not applicable	Mediterranean and Black Sea (FAO 37)	bottlenose dolphin, Risso's dolphin, unidentified beaked whale	Little interactions	P, A/G		MSRA Database: GFCM, IWC, Cetacean Bycatch Appendix	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Northeast Atlantic (FAO 27)	bottlenose dolphin	Little interactions	P, A/G		EU-provided, MSRA Database: ICCAT, IWC	
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	none provided	not applicable	not applicable	Northeast Atlantic (FAO 27)	bottlenose dolphin	none provided	P, A/G		MSRA Database: ICCAT, IWC	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided	licensed to fish off Cape Verde, other locations?
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Southeast Atlantic (FAO 47)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Southwest Atlantic (FAO 41)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Western Indian Ocean (FAO 51)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Eastern Indian Ocean (FAO 57)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided	
tuna (yellowfin, bigeye, skipjack)	longline	none provided	not applicable	not applicable	Eastern and Western Indian Ocean	none provided	none provided	A/G		MSRA Database: IOTC national report	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Western Central Pacific (FAO 71)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided, MSRA Database: WCPFC	
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	none provided	not applicable	not applicable	Western Central Pacific (FAO 71)	none provided	none provided	A/G		MSRA Database: WCPFC	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Southwest Pacific (FAO 81)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided, MSRA Database: WCPFC	
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	none provided	not applicable	not applicable	Southwest Pacific (FAO 81)	none provided	none provided	A/G		MSRA Database: WCPFC	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Southeast Pacific (FAO 87)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided, MSRA Database: IATTC	
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	none provided	not applicable	not applicable	Southeast Pacific (FAO 87)	none provided	none provided	A/G		MSRA Database: IATTC	
tuna (yellowfin, bigeye, skipjack)	purse seine	27	not applicable	not applicable	year-round, Eastern Central Pacific (FAO 77)	marine mammal interactions indicated, species not provided	Little interactions	P, A/G		EU-provided, MSRA Database: IATTC	
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	none provided	not applicable	not applicable	Eastern Central Pacific (FAO 77)	none provided	none provided	A/G		MSRA Database: IATTC	
tuna (yellowfin, bigeye, skipjack)	purse seine	27.0	not applicable	not applicable	year-round Northwest Atlantic (FAO 21)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
tuna (yellowfin, bigeye, skipjack)	purse seine	27.0	not applicable	not applicable	year-round Western Central Atlantic (FAO 31)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	
tuna (yellowfin, bigeye, skipjack)	purse seine	4.0	not applicable	not applicable	year-round, Eastern Tropical Pacific Ocean, Inter-American Tuna Commission Convention Area	marine mammal interactions indicated, species not provided	Little interactions	P, A/G	IATTC	EU-provided, MSRA Database: IATTC, https://www.iattc.org/Meetings/Meetings2017/SAC08/PDFs/INF/SAC-08-INF-A(f)-EU-Spain-Annual-report-2016.pdf , https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf	
tuna (yellowfin, bigeye, skipjack), swordfish, dolphinfish	longline	127.0	not applicable	not applicable	Eastern Tropical Pacific Ocean, Inter-American Tuna Commission Convention Area	none provided	none provided	A/G	IATTC	MSRA Database: IATTC, https://www.iattc.org/Meetings/Meetings2017/SAC08/PDFs/INF/SAC-08-INF-A(f)-EU-Spain-Annual-report-2016.pdf , https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf	
octopus/cuttlefish	trawl	14	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G		EU-provided	licensed to fish off Cape Verde, other locations?

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
shrimps	trawl	12	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	marine mammal interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
cod	trawl	4	not applicable	not applicable	year-round, Northeast Atlantic ICES areas 1 and 2 (FAO 27)	common dolphin	2	C/O, A/G	EU-provided, MSRA Database: IWC 2012	North Sea trawl fishery bycatch of common dolphin, target fishery not specified	
Greenland halibut, cod	trawl	12	not applicable	not applicable	year-round, Northwest Atlantic (FAO 21)	pilot whale, Atlantic white-sided dolphin marine mammal	1, few	C/O, A/G, P	EU-provided, MSRA database: NAFO area, IWC 2010, Cetacean Bycatch Appendix		
hake, Northern shortfin squid	trawl	23	not applicable	not applicable	year-round, Southwest Atlantic (FAO 41)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
anchovy, sardines	purse seine	343	not applicable	not applicable	year-round; Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
anchovy, sardines	purse seine	22	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
anchovy, sardines	purse seine	200	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
bonito	troll	750	not applicable	not applicable	year-round; Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
bonito	troll	750	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
bonito	troll	750	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
lobster	traps	100	not applicable	not applicable	year-round; Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
lobster	traps	20	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
lobster	traps	30	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
sea cucumber	trawl	160	not applicable	not applicable	year-round; Northeast Atlantic (FAO 27)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
sea cucumber	trawl	140	not applicable	not applicable	year-round, Eastern Central Atlantic (FAO 34)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
sea cucumber	trawl	600	not applicable	not applicable	year-round, Mediterranean and Black Sea (FAO 37)	interactions indicated, species not provided	None documented	C/O, A/G	EU-provided		
none provided	gillnet	none provided	not applicable	not applicable	Bay of Biscay (ICES area VIIIa and b)	common dolphin, harbor porpoise, Risso's dolphin	8, 1+	C/O, A/G, P	MSRA Database, Cetacean Bycatch Appendix		
none provided	gillnet	none provided	not applicable	not applicable	Atlantic Ocean - Alboran Sea (FAO 37)	common dolphin, long-finned pilot whale, sperm whale, Risso's dolphin	1, 1	C/O, A/G, P	Cetacean Bycatch Appendix, MSRA Database: IWC 2010-12		
none provided	gillnet	none provided	not applicable	not applicable	Atlantic Ocean - North Sea	common dolphin, minke whale, Risso's dolphin	2, 2	C/O, A/G, P	MSRA Database: IWC 2012, Cetacean Bycatch Appendix		
Export Fisheries with No Information											
dolphinfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2015-2016 import trade data	
Sri Lanka											
Exempt Fisheries											
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	handline	subset of 2539 (small boats <10.3m)	Not applicable	Not applicable	EEZ	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
Lobster	diving	273 people - subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Squid	scoop net	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
Squid	jig	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
sea cucumber	diving	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
shrimp	aquaculture	not applicable	none provided	Not applicable		None provided	None provided	N/I, A/G		Sri Lanka provided, U.S. Trade Data	
Export Fisheries											
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	Longline	subset of 2539 (small boats <10.3m), subset of 874 (vessels 10.3-15m), 7 (vessels 15-24m)	Not applicable	Not applicable	EEZ	None provided	4	A/G, N/I		Sri Lanka provided, U.S. Trade Data, 2002 scientific paper	1996 Reg text prohibits catching and landing of marine mammals, prohibits harpooning of marine mammals (How well are these 2 regs enforced? 2002 scientific paper indicates active killing of MM still occurring), prohibits intentional encirclement of cetaceans. Small boats with outboard motors chase dolphin schools to leads them to tuna. Propeller-injured dolphins have been recorded in Sri Lankan waters.
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	Gillnet	subset of 2539 (small boats <10.3m) and subset of 874 (vessels 10.3-15m)	Not applicable	Not applicable	EEZ	Spinner dolphin, Spotted dolphin, striped dolphin, Risso's dolphin, bottlenose dolphin and others	29 reported by Sri Lanka, 8,000 -13,000 report in the literature	A/G		Sri Lanka provided, IPNLF-Cetacean-Tuna-Fisheries-2014_Final.pdf at page 46	bycatch estimates of 4 reported incidents in LL and 29 in gillnet fisheries are likely mortality events and did not specify vessel size. Paper also notes a further 43 interactions where the animals were subsequently released.
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	Ring net	subset of 2539 (small boats <10.3m)	Not applicable	Not applicable	EEZ	None provided	None provided	N/I		Sri Lanka provided, U.S. Trade Data	finless porpoise, spotted dolphin, common dolphin, striped dolphin, spinner dolphin, bottlenose dolphin, Fraser's dolphin, pygmy killer whale, melon-headed whale, Indian humpback dolphin, rough-toothed dolphin, dwarf sperm whale, pygmy sperm whale interactions possible in coastal gillnet fisheries - Worldwide bycatch of cetaceans/appendices
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	troll	subset of 2539 (small boats <10.3m)	Not applicable	Not applicable	EEZ	None provided	None provided	N/I		Sri Lanka provided, U.S. Trade Data	Unknown gear type
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	longline	subset of 1558 (vessels 10.3-15m) and 19 (vessels 15-24 and > 24m)	Not applicable	Not applicable	High seas	Spinner dolphin, Spotted dolphin, striped dolphin, Risso's dolphin, bottlenose dolphin and others	4	A/G, N/I		Sri Lanka provided, U.S. Trade Data	
tuna (yellowfin tuna, bigeye tuna, swordfish, dolphinfish)	gillnet	subset of 1558 (vessels 10.3-15m)	Not applicable	Not applicable	High seas	Spinner dolphin, Spotted dolphin, striped dolphin, Risso's dolphin, bottlenose dolphin and others	29 reported by Sri Lanka, 8,000 -13,000 report in the literature	A/G		Sri Lanka provided, IPNLF-Cetacean-Tuna-Fisheries-2014_Final.pdf at page 46	
Groundfish	gillnet, bottom	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
other marine fish	gillnet	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
Grouper and Snapper	gillnet, bottom	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
Anchovy	gillnet	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels (subset of 30,000 coastal water craft, including traditional crafts)	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
crabs	gillnet, bottom	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
crabs	traps	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	A/G		Sri Lanka provided, U.S. Trade Data	
other marine fish	longline	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	N/I		Sri Lanka provided, U.S. Trade Data	
other marine fish	ring net	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	N/I		Sri Lanka provided, U.S. Trade Data	
Grouper and Snapper	longline, bottom	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	N/I		Sri Lanka provided, U.S. Trade Data	
shrimp	net	subset of 30,000 (coastal water craft, including traditional crafts)	Not applicable	Not applicable	Continental shelf	None provided	None provided	N/I		Sri Lanka provided, U.S. Trade Data	

Saint Helena

Exempt Fisheries											
toothfish (Antarctic)	longline, bottom	2	Not applicable	Not applicable	Subarea 88.1-2	none documented	none documented			U.S. Trade Data	Observers have not documented any marine mammal incidental mortality or serious injury
toothfish (Patagonian)	longline, bottom	2	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	none documented	none documented			U.S. Trade Data	Observers have not documented any marine mammal incidental mortality or serious injury
toothfish (Patagonian)	longline, bottom	2	Not applicable	Not applicable	Subarea 48.4 (South Sandwich Is.)	none documented	none documented			U.S. Trade Data	Observers have not documented any marine mammal incidental mortality or serious injury
Tristan rock lobster	Traps and hoop nets at Tristan and long line traps at outer islands	Tristan 12 power boats. Outer islands 2 long line trap freezer factory vessels and 4 power boats	Not applicable	Not applicable	Area 47, Tristan da Cunha Exclusive Fishery Zone	none documented	none documented	A/G	Tristan da Cunha regulations	U.S. Trade Data, Saint Helena submission	Analogous to the Category III Caribbean mixed species and lobster trap/pot fisheries. "Small, single operator fishery based on the lobster species endemic endemic to the Tristan Archipelago. The fishery has been in operation since 1947 and is the mainstay of the Tristan Community's economy. The fishery is MSC Certified and the TAC is stable at approximately 400 metric tons per annum. Tristan product has been exported to the US market since the 1970's. Observers have not documented any marine mammal incidental mortality or serious injury."

Saint Kitts Nevis

Exempt Fisheries											
conch (Queen - Strombus gigas)	dive (free, SCUBA)	no. of divers in 2013: 1180	Not applicable	Not applicable	EEZ: Mags Head North, Nags Head, Booby High Shoals, Doughnut, Shoals Deep White Hole, Hot Springs, Cafeteria, Devils Caves	none provided	none provided	A/G	CITES	http://www.fao.org/docrep/006/Y4921E/y4921e06.htm ; http://www.fao.org/oldsite/FCP/en/kna/profile.htm ; 2007-2017 import trade data; http://www.fao.org/fishery/facp/KNA/en ; http://caribbeancats.org/index.php/components/coastal_and_marine/the-narrows-mma/ , file:///C:/Users/quinn.downs/Downloads/ST_KITTS__N_EVIS_Map-4_Mosaic-of-fishing-activities.pdf, file:///C:/Users/quinn.downs/Downloads/ST_KITTS__N_EVIS_Map-3_Fish-landing-stats-and-dive-sites-use-Nevis.pdf	

Export Fisheries with No Information											
shellfish (molluscs, oysters)	none provided	N/I		2000-2017 import trade data; http://www.fao.org/fishery/facp/KNA/en	Only imported once 2000-2017. Could not find any information on mussel or oyster fisheries. Unclear if aquaculture - many reports say there isn't an established aquaculture fishery in SKN, but others say they are trying tilapia. No mention of mussels or oysters.						

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Exempt Fisheries											
conch	diving	none provided	none provided	Not applicable	EEZ - nearshore	none provided	none provided	A/G	CITES	U.S. Trade Database 2000-2017; http://www.fao.org/fi/oldsite/FCP/en/lca/profile.htm ; http://www.searoundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Lucia.pdf ; http://firms.fao.org/firms/fishery/975/en	Only imported in 2003.
Lobster, rock	hand hauled fish traps/fish pots	none provided	none provided	Not applicable	reef and shelf EEZ areas	none provided	none provided	A/G		U.S. Trade Database 2000-2017; http://www.fao.org/fi/oldsite/FCP/en/lca/profile.htm ; http://www.searoundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Lucia.pdf	Only imported in 2014.
Lobster, rock	diving (free)	none provided	none provided	Not applicable	reef and shelf EEZ areas	none provided	none provided	A/G		U.S. Trade Database 2000-2017; http://www.fao.org/fi/oldsite/FCP/en/lca/profile.htm ; http://www.searoundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Lucia.pdf	Only imported in 2014.
seaweed (Gracilaria spp.)	aquaculture (raft - unclear if still in use)	not applicable	primarily supported by Department of Fisheries and non-profit CANARI	Not applicable	coastal	none provided	none provided	A/G		U.S. Trade Database 2000-2017; http://www.fao.org/fi/oldsite/FCP/en/lca/profile.htm ; http://www.fao.org/fishery/facp/LCA/en ; http://www.fao.org/docrep/field/003/ab490e/AB490E04.htm ; http://www.fao.org/docrep/006/P4495E/P4495E07.htm	Only imported in 2015.
seaweed (Gracilaria spp.)	aquaculture (longline)	not applicable	primarily supported by Department of Fisheries and non-profit CANARI	Not applicable	coastal	none provided	none provided	A/G		U.S. Trade Database 2000-2017; http://www.fao.org/fi/oldsite/FCP/en/lca/profile.htm ; http://www.fao.org/fishery/facp/LCA/en ; http://www.fao.org/docrep/field/003/ab490e/AB490E04.htm ; http://www.fao.org/docrep/006/P4495E/P4495E07.htm	Only imported in 2015.
seaweed (Gracilaria spp.)	diving/hand collected	none provided	not applicable	Not applicable	coastal	none provided	none provided	A/G		U.S. Trade Database 2000-2017; http://www.fao.org/fi/oldsite/FCP/en/lca/profile.htm ; http://www.fao.org/fishery/facp/LCA/en ; http://www.fao.org/docrep/field/003/ab490e/AB490E04.htm ; http://www.fao.org/docrep/006/P4495E/P4495E07.htm ; http://www.searoundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Lucia.pdf	Only imported in 2015. Unclear if there's still hand collection harvesting.

Saint Pierre Miquelon

Export Fisheries											
snow crab	pots/traps	none provided	not applicable	Not applicable	North Atlantic Fisheries Organization Convention Area	none provided	none provided	A/G, N/I	NAFO	2007-2017 import trade data; http://provis.umcs.ca/en/system/files/wf/Intell-Echo-2014-2015-2016-en/2014-Intell-Echo-5-en.pdf	belongs to RFMO/organizations under France
flatfish, halibut, sole, turbot	longline	none provided	not applicable	Not applicable	North Atlantic Fisheries Organization Convention Area 3Ps	none provided	none provided	A/G, N/I	NAFO	2007-2017 import trade data; http://provis.umcs.ca/en/system/files/wf/Intell-Echo-2014-2015-2016-en/2014-Intell-Echo-5-en.pdf ; http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/groundfish-poisson-fond/groundfish-poisson-fond-div3p-eng.htm	belongs to RFMO/organizations under France

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
groundfish, cod, haddock	trawl	none provided	not applicable	Not applicable	North Atlantic Fisheries Organization Convention Area 3Ps International Convention for the Conservation of Atlantic Tuna convention area	none provided	none provided	A/G, N/I	NAFO	2007-2017 import trade data; http://provis.umcs.ca/en/system/files/wf/Intell-Echo-2014-2015-2016-en/2014-Intell-Echo-5-en.pdf ; http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/groundfish-poisson-fond/groundfish-poisson-fond-div3p-eng.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Builtel-and-Zylich-St-Pierre-et-Miquelon.pdf ; http://www.sciencedirect.com/science/article/pii/S0959378016304897 ; https://www.sustainablefish.org/Programs/Improving-Wild-Fisheries/Seafood-Sectors-Supply-Chain-Roundtables/Whitefish/Northwest-Atlantic-Cod-SR ; http://www.newworldencyclopedia.org/entry/Saint-Pierre_and_Miquelon	belongs to RFMO/organizations under France
tuna	longline	1*	not applicable	Not applicable	area	none provided	none provided	A/G, N/I	ICCAT	ICCAT country report https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	*Active fishery but has not exported to the US
Saint Vincent Grenadine											
Exempt Fisheries											
conch	Diving (free)	approximately 500 fishermen, 160 fishing vessels	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G		2007-2017 import trade data; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	Analogous fishery Southeastern U.S. Atlantic, Gulf of Mexico, and Caribbean snapper-grouper and other reef fish bottom longline/hook-and-line, Category III
grouper, snapper	longline	none provided	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G, N/I		2007-2017 import trade data; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm	
grouper	traps	none provided	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G		2007-2017 import trade data; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm	Caribbean mixed species trap/pot
snapper	handline	none provided	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G		2007-2017 import trade data; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	
lobster, rock	Diving (free, SCUBA)	approximately 500 fishermen, 160 fishing vessels	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G		2007-2017 import trade data; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	Analogous fishery Atlantic Ocean, Gulf of Mexico, Caribbean shellfish dive, hand/mechanical collection, Category III
Export Fisheries											
dolphinfish	troll	none provided	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G, N/I		2007-2017 import trade data; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm	
tuna (bigeye, yellowfin)	Longline	33	not applicable	Not applicable	International Convention for the Conservation of Atlantic Tuna convention area	none provided	none provided	A/G	ICCAT	2007-2017 import trade data; ICCAT; http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	Vessel count from ICCAT ROV
Large Pelagics (tuna, bigeye, yellowfin, swordfish, billfish, wahoo, sharks)	troll, deep-slope	none documented	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G, N/I		http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	Unclear if solely local gear/fishery or if exporting
Coastal Pelagics (jack, herring, mackerel, silverside, anchovy, ballyhoo, robin/scad and small tunas)	gillnets	none documented	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G, N/I		http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	Unclear if solely local gear/fishery or if exporting
Coastal Pelagics (jack, herring, mackerel, silverside, anchovy, ballyhoo, robin/scad and small tunas)	seine	none documented	not applicable	Not applicable	Caribbean Sea	none provided	none provided	A/G, N/I		http://www.fao.org/fi/oldsite/FCP/en/vct/body.htm ; http://www.seaaroundus.org/doc/publications/wp/2015/Mohammed-et-al-St-Vincent-and-the-Grenadines.pdf	Unclear if solely local gear/fishery or if exporting
Export Fisheries with No Information											
butterfish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data; http://crfm.int/~uwohjxf/images/documents/Special_Scientific_Issue_June_2011.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
molluscs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	
Suriname											
Exempt Fisheries											
snapper, grouper, dolphinfish or mahi-mahi, mackerel, others	hook & line, handlines	139 (10 - 20 m length)	not applicable	not applicable	FAO AREA 31, Suriname EEZ	Cetacea, Guiana dolphin	LOW=<10 per year	NI, A/G		U.S. Trade data. Suriname submission. Fisheries Management Plan for Suriname 2014 - 2018. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	Suriname identified Venezuela as flag state of harvesting vessels. Fish from the Venezuelan vessels is landed exclusively at the CEVIHAS NV jetty. The Venezuelan vessels catch the snapper predominantly with handlines. Only a handful of vessels (6 in 2012) use longlines.
Export Fisheries											
snapper, grouper, dolphinfish or mahi-mahi, mackerel, others	Longline	6 (10 - 20 m length)	not applicable	not applicable	FAO AREA 31, Suriname EEZ	Cetacea, Guiana dolphin	LOW=<10 per year	NI, A/G		U.S. Trade data. Suriname submission. Fisheries Management Plan for Suriname 2014 - 2018. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	Suriname identified Venezuela as flag state of harvesting vessels. Fish from the Venezuelan vessels is landed exclusively at the CEVIHAS NV jetty. The Venezuelan vessels catch the snapper predominantly with handlines. Only a handful of vessels (6 in 2012) use longlines.
fish, including liver, roe, milt	line	none provided	none provided	none provided	Atlantic, Eastern Central (FAO AREA 34)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	Suriname identified Panama as intermediary nation.
marine fish	trawl, line	none provided	none provided	none provided	Atlantic, Eastern Central (FAO AREA 34), Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	Suriname identified Panama as intermediary nation.
shrimp & finfish	bottom trawl	20 (10-20 m length)	not applicable	not applicable	Atlantic, Western Central (FAO AREA 31)	tucuxi, Cetacea, Guiana dol	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf . Vidal, O., and V. Waerebeek. 1994. Cetaceans and gillnet fisheries in Mexico, Central America and the wider Caribbean: A preliminary review.	Net adaptation = Turtle Excluder Device (TED), Vessel monitoring = VMS
shrimp	Chinese seine, medium and small mesh	308 (licenses)	not applicable	not applicable	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	Chinese seine = fyke nets
finfish	Chinese seine, large mesh	53 (licenses)	not applicable	not applicable	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	Chinese seine = fyke nets
tuna - yellowfin, big eye, dolphinfish, wahoo, Atlantic sailfish, blue shark, escolar	longline, pelagic	20 (20 - 40 m), 10 (10 - 20 m)	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		Suriname submission. Vessel numbers in 2016. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf ; Fisheries Management Plan for Suriname 2014 - 2018.	There are no vessels fishing for tuna under the Surinamese flag. There is however a fleet of vessels under Panamese flag fishing for tuna in Surinamese and international waters.
trout, salmonidae	trawl	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
cobia, butterflyfish, seabream, seabass, lingcod	trawl and other	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
crab	trawl	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
flatfish, flounder	trawl	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
catfish	trawl and other	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea /Sirenia	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
whitefish, hake, whiting, groundfish	trawl	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
shark and catfish	driftnet	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	
molluscs	trawl	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission.	
sardine, sardinella, brising, sprat, herring	trawl	3	not applicable	not applicable	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		U.S. Trade data. Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	
demersal finfish (weakfish, catfish, mackerel, croaker, bang-bang, etc.) and sharks	gillnet, drift	400 (6-16 m length, Guyana boats)	none provided	none provided	Suriname coast, Atlantic, Western Central (FAO AREA 31)	Guiana dolphin, Cetacea	LOW=<10 per year	N/I, A/G		Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf . De Boer, M.N. (2015) Cetaceans observed in Suriname and adjacent waters. Latin American Journal of Aquatic Mammals 10(1): 2-19. http://dx.doi.org/10.55 . Fisheries Management Plan for Suriname 2014 - 2018.	The net length of many vessels widely exceeds the maximum permitted length of 2000 metres. Many boats are fishing with a total net length of 4 or 5 km.

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
none provided	longline, demersal	none provided	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Cetacea	LOW=<10 per year	N/I, A/G		Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf	
groundfish and flatfish, wolffish	gillnet, fixed	8	none provided	none provided	Atlantic, Western Central (FAO AREA 31)	Guiana dolphin, Cetacea /Sirenia	LOW=<10 per year	N/I, A/G		Suriname submission. FAO Country Profile (2008) - ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_SR.pdf . De Boer, M.N. (2015) Cetaceans observed in Suriname and adjacent waters. Latin American Journal of Aquatic Mammals 10(1): 2-19. http://dx.doi.org/10.5597/lajam00189	
seabob shrimp (<i>Xyphopeneaus kroyeri</i>)	trawl	22	none provided	none provided	shallow coastal, FAO AREA 31, Suriname EEZ	Guiana dolphin	none provided	NI, A/G		Suriname submission.	Net adaptation = Turtle Excluder Device (TED), and (fish) Bycatch Reduction Device. Vessel monitoring = VMS. MSC certified in 2011. Seabob shrimp are landed in ice at one of the two Surinamese processing firms (Sail and Heiploeg Suriname). Here the shrimp are peeled, graded, and frozen for export to Europe and the US.
Orange shrimp, deep water rose shrimp	bottom trawl	4 licenses (in 2012)	none provided	none provided	deep water, FAO AREA 31, Suriname EEZ	Guiana dolphin	none provided	NI, A/G		Suriname submission. Fisheries Management Plan for Suriname 2014 - 2018.	Net adaptation = Turtle Excluder Device (TED), Vessel monitoring = VMS
weakfish, grunt, croaker, snapper, catfish, hairtail, Barracuda, other demersal fish	bottom trawl	21 (20-40 m length)	none provided	none provided	FAO AREA 31, Suriname EEZ	Guiana dolphin	none provided	NI, A/G		Suriname submission. Fisheries Management Plan for Suriname 2014 - 2018.	Vessel monitoring = VMS. 200 days at sea. 15 fathoms and deeper.
weakfish, hairtail or cutlass, drum, croaker or butterfish, sea catfish, moonfish	bottom trawl	5 (20 - 40 m length)	none provided	none provided	FAO AREA 31, Suriname EEZ	Guiana dolphin	none provided	NI, A/G		Suriname submission.	Suriname identified China as flag state of harvesting vessels.
catfish, Atlantic tripletail, seabob, shrimp, tarpon	gillnets, longlines, driftnet, and fyke nets	270 (4 - 10m length)	none provided	none provided	rivers and estuaries, Suriname coast	West Indian manatee	none recorded	NI, A/G		Suriname submission. Fisheries Management Plan for Suriname 2014 - 2018.	Fyke nets = Chinese seine and Jagi Jagi. Jagi Jagi are V-shaped pole constructions are set up that guide the fish in the direction of the fyke nets. The fisher waits at the rear end of the fyke for fish to land in the net. Passing fish are taken out of the net by means of a hooked stick.
bang-bang, dagou tifi, kandratiki, koepila, pani, snook, botrofsie	set nets or bankfishing with pin seine	none	none provided	none provided	coastal, Suriname coastline	none provided	none provided	NI		Fisheries Management Plan for Suriname 2014 - 2018.	
croaker, dagou tifi or bangamary	drift net, small mesh	3 licenses	none provided	none provided	coastal, Suriname coastline	none provided	none provided	NI		Fisheries Management Plan for Suriname 2014 - 2018.	No more than 20 licenses may be issued (2012). Maximum net length = 1000m. Maximum vessel length = 12 m.

Sweden

Exempt Fisheries											
Atlantic cod	Fishing pots	23-31	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Atlantic cod	Handlines and pole lines hand operated	33-46	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Haddock	Fishing pots	5	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G, N/I		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Haddock	Handlines and pole lines hand operated	2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Haddock	Danish seines	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G, N/I		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Herring	Fishing pots	2-5	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G, N/I		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Herring	Beach seines	4-5	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
Sprat	Fishing pots	2-4	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	N/I, A/G		EU provided, U.S. Trade Data	
Sprat	Beach seines	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
Atlantic cod	Danish seines	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G, N/I		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Export Fisheries											
Atlantic cod	Stationary uncovered pound nets	11-16	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Atlantic cod	Fyke nets	4-6	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Atlantic cod	gillnet, drift	5	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	Of particular concern are harbor porpoise mortality levels in the Celtic Sea, where more than 6 percent of the minimum population estimates are killed annually as bycatch. Likewise, bycatch in the Northern and central North Sea, Northern North Sea, and Southern and central North Sea are at unsustainable levels amounting to 4.1, 5.0, and 4.3 percent, respectively, of the population estimates for those areas.
Atlantic cod	gillnet, set	242-247	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	Of particular concern are harbor porpoise mortality levels in the Celtic Sea, where more than 6 percent of the minimum population estimates are killed annually as bycatch. Likewise, bycatch in the Northern and central North Sea, Northern North Sea, and Southern and central North Sea are at unsustainable levels amounting to 4.1, 5.0, and 4.3 percent, respectively, of the population estimates for those areas.
Atlantic cod	gillnet trammel	40-41	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	Of particular concern are harbor porpoise mortality levels in the Celtic Sea, where more than 6 percent of the minimum population estimates are killed annually as bycatch. Likewise, bycatch in the Northern and central North Sea, Northern North Sea, and Southern and central North Sea are at unsustainable levels amounting to 4.1, 5.0, and 4.3 percent, respectively, of the population estimates for those areas.
Atlantic cod	longline, set	29-38	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Atlantic cod	troll	1-4	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Atlantic cod	trawl, bottom otter	119-126	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Atlantic cod	trawl, bottom otter	43-58	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Atlantic cod	trawl, midwater otter	4-8	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Atlantic cod	purse seine	1-2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Atlantic cod	Pair trawl bottom	2-4	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification **	RFMO or Legal Protection Measures	References	Detailed Information
								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
Atlantic cod	Pair trawl midwater	2-4	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Haddock	Gillnet drift	3	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Haddock	Gillnet set	15-18	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Haddock	Gillnet trammel	7-9	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Haddock	troll	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Haddock	trawl, bottom otter	77	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Haddock	trawl, bottom otter	36-45	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Haddock	Otter trawl midwater	2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Haddock	Pair trawl bottom	2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Haddock	Pair trawl midwater	2-4	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Herring	Traps (not specified)	4-5	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Herring	Stationary uncovered pound nets	7-12	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Herring	Stow nets	13	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	N/I, A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Herring	Fyke nets	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Herring	gillnet, drift	2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Herring	gillnet, set	162-180	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Herring	gillnet, trammel	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Herring	trawl, bottom otter	29-38	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Herring	trawl, bottom otter	2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Herring	trawl, otter midwater	26	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Herring	purse seine	9-13	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
Herring	Pair trawl bottom	24-26	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Herring	Pair trawl midwater	14	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification **	RFMO or Legal Protection Measures	References	Detailed Information
								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
Herring	longline, set	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Salmon	Traps (not specified)	98-103	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	
Salmon	Stationary uncovered pound nets	1-2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Salmon	Stow nets	7-8	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	N/I, A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Salmon	gillnet, set	9-10	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Salmon	longline, set	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Salmon	trawl, bottom otter	2-5	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Salmon	Pair trawl midwater	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Sprat	gillnet, set	2-3	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
Sprat	trawl, bottom otter	14-22	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Sprat	trawl, otter midwater	24-25	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
Sprat	purse seine	8	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Sprat	Pair trawl midwater	11-13	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
brown trout	Traps (not specified)	61-65	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
brown trout	Stationary uncovered pound nets	4-6	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
brown trout	gillnet, set	71-84	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
brown trout	gillnet, trammel	1-2	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	1200	P, A/G		EU provided, Bycatch sp and estimates from Cetacean Bycatch Appendix TechMemo	
brown trout	trawl, bottom otter	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
brown trout	Pair trawl midwater	1	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	harbor porpoise	25	P, A/G		EU provided, Bycatch sp and estimates from MSRA Collapsed LoFF_LF	
brown trout	Stow nets	3	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	N/I, A/G		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
Export Fisheries with No Information											
Atlantic cod	Miscellaneous gear	3	Not applicable	Not applicable	Northeast Atlantic Ocean (FAO zone 27)	none documented	none documented	N/I		EU provided, U.S. Trade Data	Data collection by onboard observers and/or reported landed data, marine mammals indicated in the area but species not provided
caviar	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Anchovy	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
crabs	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Tanzania											
Exempt Fisheries											
coral	hand collection, diving	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 import trade data	likely hand collected
prawns (Penaeids species, Penneropenaeus indicus, Penaeus indicus, P. monodon, P. semisucatus, Metapenaeus monoceros)	artisanal fishing (seine nets, baited traps, cast nets, and beach seine)	none documented	not applicable	not applicable	shore of Indian ocean	none provided	none provided	N/I, A/G		U.S. Trade Data, http://www.unuftp.is/static/fellows/document/aminprf04.pdf 2000-2017 import trade data; http://www.fao.org/fishery/countrysector/naso_tanzania/en	
seaweed	Aquaculture	not applicable	none provided	not applicable	coastal EEZ	none provided	none provided	N/I, A/G			
Export Fisheries											
dolphinfish (small tuna fishery)	longline	2	not applicable	not applicable	Indian Ocean Tuna Commission Convention Area	none provided	none provided	N/I, A/G	IOTC	2000-2017 import trade data; IOTC compliance report 2017; http://www.iotc.org/documents/tanzania-%E2%80%93national-report-2014 ; http://www.iotc.org/sites/default/files/documents/2017/03/IOTC-2017-CoC14-IR28E-Tanzania.pdf	The US has not imported tuna, but have imported dolphinfish once during the 2000-2017 period. "No Tanzanian flagged vessels operated with large-scale driftnets in the IOTC Area during 2016.DSFA Regulation 2009 is being amended to include the provisions on the ban of the use of large-scale driftnets." IOTC compliance report 2017: no LL, PS in 2017; gillnets only in EEZ
octopus	trap, trawl	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 import trade data; http://www.mifugouvuvu.go.tz/wp-content/uploads/2012/12/ANNUAL-STATISTICS-REPORT-2013.pdf	may be processed product (both cephalopods and lobsters are processed at the facilities listed)
prawns (Penaeids species, Penneropenaeus indicus, Penaeus indicus, P. monodon, P. semisucatus, Metapenaeus monoceros)	commercial trawler	8 to 13	not applicable	not applicable	EEZ in Indian ocean Coast of Tanga, Dar es Salaam Zanzibar and Mafia areas	none provided	none provided	N/I, A/G		U.S. Trade Data	
sardines, mackerels (small pelagics)	purse seine (extend scoop)	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		IOTC-2012-WPNT02-21	
shark	gillnet	not applicable	none provided	not applicable	coastal EEZ	dugongs, small cetaceans, large cetacean	none provided	N/I, A/G		Kiszka et. al. 2008	*record of dolphin bycatch in artisanal gillnet fisheries but not clear if associated with US imports
tuna, albacore, yellowfin, swordfish, sharks, marlin	gillnet	none provided	not applicable	not applicable	Indian Ocean, Oman Sea	spotted dolphin, long-beaked common dolphin, bottlenose dolphin, Risso's dolphin, humpback whale	2,493 - 10,230	P, A/G		U.S. Trade Data	we did not import tuna 2000-2017, clear mm bycatch issues with gillnet gear - was difficult to find other fisheries (besides tuna) directly linked to gillnets.
tuna, albacore, yellowfin, swordfish, sharks, marlin	ring nets	none provided	not applicable	not applicable	Indian Ocean, Oman Sea	none provided	none provided	A/G		U.S. Trade Data	we did not import tuna 2000-2017, clear mm bycatch issues with gillnet gear - was difficult to find other fisheries (besides tuna) directly linked to gillnets.
tuna, albacore, yellowfin, swordfish, sharks, marlin	troll	none provided	not applicable	not applicable	Indian Ocean, Oman Sea	none provided	none provided	A/G		U.S. Trade Data	we did not import tuna 2000-2017, clear mm bycatch issues with gillnet gear - was difficult to find other fisheries (besides tuna) directly linked to gillnets.
Thailand											
Exempt Fisheries											
Anchovy (including Commerson's)	lift net	11	Not applicable	Not applicable	Offshore Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	
cardinalfish	Aquaculture	rearing in aquarium	Not applicable	Not applicable	Coastal areas	no information	none documented			Thailand provided, U.S. Trade Data	
serrated mud crab	hooks	by hand	Not applicable	Not applicable	Coastal areas Gulf of Thailand/Andaman Sea	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
Meder mangrove crab	hand collection	by hand	Not applicable	Not applicable	Coastal areas Gulf of Thailand/Andaman Sea	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
Meretrix (clam)	dredge	20	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
squid (Loligo)	lift net/falling net	1350	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	none documented	N/I		Thailand provided, U.S. Trade Data	
clam	dredge	67	Not applicable	Not applicable	Gulf of Thailand	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
Cockle	dredge	14	Not applicable	Not applicable	Gulf of Thailand	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
Cockle	Aquaculture	rearing in eastern ponds	2651 farms	Not applicable	none provided	no information	none documented			Thailand provided, U.S. Trade Data	
sea bass	Aquaculture	*rearing in earthen pond, cage	5396 ponds / 11105 cages	Not applicable	Coastal area of Gulf of Thailand and Andaman sea	none documented	none documented	N/I		Thailand provided, U.S. Trade Data	
Grouper (sixbar grouper, grouper)	Aquaculture	*Cage culture	294 ponds / 2292 cages	Not applicable	Coastal area of Gulf of Thailand and Andaman sea	none documented	none documented	N/I		Thailand provided, U.S. Trade Data	
Cobia	Aquaculture	*cage culture	220 cages	Not applicable	Coastal area of Gulf of Thailand and Andaman sea	none documented	none documented	N/I		Thailand provided, U.S. Trade Data	
mussel, green mussel, oyster	hand collection	by hand	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
green mussel, oyster	hand collection (aquaculture)	farmed by bag, rack, rope, raft	green mussel 2123 farms/oyster 1220 farms	Not applicable	none provided	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
"Demersal fishes"	Handline	24	Not applicable	Not applicable	Andaman Sea/Gulf of Thailand	no information	none documented	A/G		Thailand provided, U.S. Trade Data	
Whitespotted conger	hand collection	by hands	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G	see attachment	Thailand provided, U.S. Trade Data	
Whitespotted conger	Aquaculture	rearing in earthen pond	1 farm	Not applicable	Coastal areas of gulf of Thailand	no information	none documented	N/I, A/G	see attachment	Thailand provided, U.S. Trade Data	
pomfret unspecified	lift nets	25	Not applicable	Not applicable	Gulf of Thailand	no information	none documented	A/G, N/I		Thailand provided, U.S. Trade Data	

Export Fisheries

Pelagic fishes, anchovy (including Commerson's), bonito, mackerel (Indian mackerel, Scomber, short-bodied mackerel, Spanish mackerel), sardine, yellowtail scad, yellowtail fusilier, pomfret (Silver pomfret, black pomfret), Pinjalo, purple-spotted bigeye, bigeye scad, bigeye, scad, round scad, hardtail scad, roughear scad, yellow stripe trevally	Purse seine	237 (target: anchovy and pelagic fishes)	Not applicable	Not applicable	Offshore Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	Protection and Conservation Wildlife Act, B.E. 2535 (1992) - prohibition of hunting of sp of marine mammal. In addition, other threats were directly and indirectly from human activities, including marine pollutions, marine debris as well as incidental catches of fishing. However, 5-year statistics showed that fishing activities had no impact to population changes of the marine mammals (2011 to 2015, average of 100.2 ± 51.2 tails/year). (average numbers of stranded dugongs during 2011 to 2016 was 12.2±4.3 tails/year). It can be considered that the numbers of stranded dugongs were steady. Problem/cause for the stranding of dugongs by fishing gears was 50 – 72 %, mainly by coastal gillnets as well as other fisheries.
Anchovy (including Commerson's)	Falling net	617 (target: anchovy)	Not applicable	Not applicable	Offshore Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	
catfish (including spotted)	gillnet	812 vessels authorized to fish for Demersal fishes, squid, shrimp	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	dugong	no information	N/I, A/G		Thailand provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Demersal fishes, squid, shrimp (including catfish (including spotted), cobia, whitespotted conger, snapper (Blackspot snapper, Humphead, Red, sailfin, Malabar blood snapper), Japanese amberjack, stingray, Grouper (sixbar grouper, grouper), Hairtail, Bream, Threadfin bream, scad, hardtail scad, lizardfish, ponyfish, tonguefish, rabbitfish, barracuda, goatfish, spotted flathead, crab swimming crab, blue swimming crab, shrimp, squid, scallop, Yesso scallop, blotched melon shell	trawl	3242 vessels	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	
Demersal fishes, Eel (Synphobranchus), snapper (Blackspot snapper, Humphead, Red, sailfin, Malabar blood snapper), Grouper (sixbar grouper, grouper), parrotfish, Forsten's parrotfish, Eclipse parrotfish, rabbitfish	pots	135 vessels authorized to fish for Demersal fishes, squid, shrimp	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	
Eel (Synphobranchus), whitespotted conger, stingray	longline, bottom	subset of 72 authorized LL vessels	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	dugong	none documented	N/I, A/G		Thailand provided, U.S. Trade Data	
mackerel (Indian mackerel, Scomber, short-bodied mackerel, Spanish mackerel), Greenback mullet, sardine (including white), Fourfinger threadfish, pomfret (Silver pomfret, black pomfret), whitingfish, Bream, Threadfin bream, wahoo, crab, Giant king crab, swimming crab, blue swimming crab, red frog crab, lobster, flathead lobster	gillnet and entangling nets	subset of 812 vessels authorized for gillnet use	none provided	Not applicable	Coastal areas, Gulf of Thailand/Andaman Sea	dolphins, Irrawaddy dolphin, dugongs	<2/yr.	N/I, A/G		Thailand provided, U.S. Trade Data	
tuna, longtail, skipjack tuna, albacore, bigeye, yellowfin, Japanese amberjack, wahoo, mahi mahi	purse seine	942 (subset, target fishery: Pelagic fishes)	Not applicable	Not applicable	Gulf of Thailand, Andaman Sea/Ocean	no information	no information	N/I, A/G		Thailand provided, U.S. Trade Data	
tuna, skipjack tuna, albacore, bigeye, yellowfin, marlin, roundscale spearfish, swordfish, mahi mahi	longline	subset of 72 authorized LL vessels	Not applicable	Not applicable	Gulf of Thailand, Andaman Sea/Ocean	no information	no information	N/I, A/G		Thailand provided, U.S. Trade Data	
crab, swimming crab, blue swimming crab, lobster, flathead, serrated mud crab	pots	384	Not applicable	Not applicable	Coastal areas Gulf of Thailand/Andaman Sea	Irrawaddy dolphin, dugong	<2/yr.	A/G, P		Thailand provided, U.S. Trade Data	
shrimp and prawn, black tiger shrimp, pink shrimp, Indian white shrimp, banana prawn, red shrimp, jinga shrimp, greasy black shrimp, southern velvet shrimp, red swamp crawfish	trawl	488 bream trawl vessels	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	no information	A/G, N/I		Thailand provided, U.S. Trade Data	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
shrimp and prawn, black tiger shrimp, pink shrimp, Indian white shrimp, banana prawn, red shrimp, jinga shrimp, greasy black shrimp, southern velvet shrimp, red swamp crawfish	gillnet	none provided	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	Irrawaddy dolphin, dugong	<2/yr.	A/G, P		Thailand provided, U.S. Trade Data	
squid (Loligo)	Falling net	1350	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	no information	A/G, N/I		Thailand provided, U.S. Trade Data	
krill	krill push nets	139	Not applicable	Not applicable	Gulf of Thailand	no information	no information	N/I		Thailand provided, U.S. Trade Data	
Cuttlefish, cuttlefish, soft cuttlefish, octopus	squid pots	154	Not applicable	Not applicable	Gulf of Thailand/Andaman Sea	no information	no information	N/I		Thailand provided, U.S. Trade Data	

Tonga

Exempt Fisheries											
coral, shells cuttlebone	hand collection, diving	none provided	not applicable	not applicable	Tonga EEZ	None provided.	None documented	A/G		Tonga provided, U.S. Trade Data	
Snapper, Rusty jobfish, green jobfish, trevallies, jack, short-tailed red snapper, long-tail snapper, comet grouper, convict grouper, silver snapper	drop line	3 - 20 vessels	not applicable	not applicable	Tonga EEZ	None documented	None documented	A/G		Tonga provided, http://www.fao.org/docrep/005/ac682e/ac682e06.htm	Western Pacific Fishery Management Ecosystem Plan indicates that there is no bycatch of marine mammals documented for this fishery and drop line fisheries in HI or American Samoa
Export Fisheries with No Information											
Tuna, Yellowfin tuna, Bigeye tuna, Dolphinfin, swordfish	longline	7 foreign licenses; 4 domestic licenses	not applicable	not applicable	Tonga EEZ	None provided.	None documented	A/G		Tonga provided, U.S. Trade Data	100% observer on foreign vessels and 20% on national vessels.
clam, molluscs	none provided	none provided	not applicable	not applicable	Tonga EEZ	None provided.	None documented	N/I		http://www.fao.org/docrep/005/ac682e/ac682e06.htm	There was an important commercial fishery for beche-de-mer in the 1980s and 1990s, but this ceased due to over-exploitation and a subsequent ban on exports in 1997. The ban was declared initially for ten years, with provision for a review after five years. An export ban on giant clams to assure the local availability of this important traditional food has been in effect for about a decade.

Trinidad and Tobago

Exempt Fisheries											
Red Fish; Lane Snapper; Plum-Head Snapper; Salmon; Croaker; Grouper; Pampano	Non-artisanal multi-gear fleet--fish pots	13	Not applicable	Not applicable	Territorial Sea--Northeast; Southeast; East Coasts of Trinidad and Moruga.	None documented	None documented	N/I, A/G		U.S. Trade Data	Analogous fishery is the Caribbean mixed species trap/pot fishery: No observer program; Trip Report submissions infrequent
Red Fish; Lane Snapper; Plum-Head Snapper; Salmon; Croaker; Grouper; Pampano	artisanal multi-gear fleet--fish pots	46	Not applicable	Not applicable	Territorial Sea--All around Trinidad, in particular Northeast, Southeast, and East Coasts of Trinidad and Moruga.	None documented	None documented	N/I, A/G		U.S. Trade Data: Trinidad & Tobago comments on draft LOFF	Analogous fishery is the Caribbean mixed species trap/pot fishery. Data are computerized for some 39 years for the Trinidad Artisanal* fleets: from 1990 and onward, with 2017 now in progress; and prior to 1990 for only some years namely: 1959-61; 1963; some of 1967-68; 1969; some of 1972-73; 1975; 1980; 1985.
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfin; Lane Snapper; Southern red snapper, Vermillion snapper, Groupers	Artisanal multi-gear fleet--diving, spearfishing	600	Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G		Trinidad & Tobago comments on draft LOFF	The estimated total number of artisanal multi-gear vessels operating in Tobago is 600
Export Fisheries											
Tuna, Yellowfin tuna, bigeye tuna, swordfish, dolphinfin	longline (non-artisanal)	38	Not applicable	Not applicable	Western Tropical Atlantic Ocean	None documented	None documented	N/I, A/G	ICCAT no measures	U.S. Trade Data	No observer program, no landings of mammals recorded in trip reporting system (self-reporting) implemented since 2002
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfin; Kingfish; Caribe	Non-artisanal multi-gear fleet--gillnet		Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G			The estimated total number of non-artisanal multi-gear vessels operating in Tobago is 14

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfinh	Non-artisanal multigear fleet-- pelagic line		Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G			The estimated total number of non-artisanal multi-gear vessels operating in Tobago is 14
Croaker, salmon, weakfish, snapper, groundfish, Carite, Kingfish, Cavalli, Shark,	Artisanal gillnet	869	Not applicable	Not applicable	Territorial Sea--all around Trinidad	porpoises dolphin	Bottlenose	1959 to 2017: 14,696 lbs of porpoises	N/I, C/O, A/G	U.S. Trade Data: Trinidad & Tobago comments on draft LOFF	Over the period 1959 to current, for which some data are available from all Trinidad artisanal* fleets, but for which NOT all data have been computerized** and used for this analysis, a total of 14,696 lbs of porpoises including bottlenose dolphins have been recorded from a total of 49 landings, of which by far the majority was from multifilament gillnets (72% by weight and 86% by number of landings, ie. 10,654 lbs from 42 landings). 1,889 lbs from 2 landings of bottlenose dolphins were recorded for the same period from monofilament gillnets.
Croaker, salmon, weakfish, snapper, groundfish, Carite, Kingfish, Cavalli, Shark,	Artisanal line including banking, troll/tow, a-la-vive, palangue, switcher	507	Not applicable	Not applicable	Territorial Sea--all around Trinidad	porpoises		1959 to 2017: 2 porpoises	N/I, C/O, A/G	U.S. Trade Data: Trinidad & Tobago comments on draft LOFF	2 landings of porpoises from line methods totalling 473 lbs were recorded for some 39 years over the period 1959 to the current time**.
Carite, Kingfish, Cavalli, snapper, herring, weakfish, groundfish	Artisanal bait seine, beach/land seine, Italian seine	29	Not applicable	Not applicable	Territorial Sea--all around Trinidad	porpoises		1959 to 2017: 2 porpoises	P, C/O, A/G	Trinidad & Tobago comments on draft LOFF	2 landings of porpoises from beach/land seine totalling 1,320 lbs were recorded for some 39 years over the period 1959 to the current time**.
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfinh; Lane Snapper; Southern red snapper, Vermillion snapper, Groupers	Artisanal multigear fleet--gillnet	600	Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G		Trinidad & Tobago comments on draft LOFF	The estimated total number of artisanal multi-gear vessels operating in Tobago is 600
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfinh; Lane Snapper; Southern red snapper, Vermillion snapper, Groupers	Artisanal multigear fleet--driftline, pelagic line	600	Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G		Trinidad & Tobago comments on draft LOFF	The estimated total number of artisanal multi-gear vessels operating in Tobago is 600
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfinh; Lane Snapper; Southern red snapper, Vermillion snapper, Groupers	Artisanal multigear fleet--beach/land seine	600	Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G		Trinidad & Tobago comments on draft LOFF	The estimated total number of artisanal multi-gear vessels operating in Tobago is 600
Yellowfin tuna, Albacore, Skipjack tuna, Bonito; Flyingfish; Wahoo; Dolphinfinh; Lane Snapper; Southern red snapper, Vermillion snapper, Groupers	Artisanal multigear fleet--demersal longline	600	Not applicable	Not applicable	Territorial Sea--Tobago.	None documented	None documented	N/I, A/G		Trinidad & Tobago comments on draft LOFF	The estimated total number of artisanal multi-gear vessels operating in Tobago is 600
Shrimp, Croaker, salmon, weakfish, snapper, groundfish	Non-artisanal double rigged trawler	28	Not applicable	Not applicable	Territorial Sea: Gulf of Paria, South and North Coasts of Trinidad	None documented	None recorded over the period 2000-2016**	N/I, A/G		U.S. Trade Data: Trinidad & Tobago comments on draft LOFF	Non-artisanal double-rigged trawl fleet is covered in the data from the year 2000 and onward. Plans to implement a Logbook and Observer Programme for this fleet within the coming months under GEF-funded FAO REBYC II LAC Project for Sustainable Management of Bycatch in Latin American and Caribbean Trawl Fisheries. Required by law to use Turtle Excluder Device (TEDs).

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Shrimp, Croaker, salmon, weakfish, snapper, groundfish	Non-artisanal single stern trawler	8	Not applicable	Not applicable	Territorial Sea: Gulf of Paria, South and North Coasts of Trinidad	None documented	None recorded since 1959**	N/I, A/G		U.S. Trade Data: Trinidad & Tobago comments on draft LOFF	**Data are computerized for some 39 years for the Trinidad Artisanal* fleets: from 1990 and onward, with 2017 now in progress; and prior to 1990 for only some years namely: 1959-61; 1963; some of 1967-68; 1969; some of 1972-73; 1975; 1980; 1985. Plans to implement a Logbook and Observer Programme for this fleet within the coming months under GEF-funded FAO REBYC II LAC Project for Sustainable Management of Bycatch in Latin American and Caribbean Trawl Fisheries. Required by law to use Turtle Excluder Device (TEDs).
Shrimp, Croaker, salmon, weakfish, snapper, groundfish	Artisanal trawl	102	Not applicable	Not applicable	Territorial Sea: Gulf of Paria	None documented	None recorded since 1959**	N/I, A/G		U.S. Trade Data: Trinidad & Tobago comments on draft LOFF	**Data are computerized for some 39 years for the Trinidad Artisanal* fleets: from 1990 and onward, with 2017 now in progress; and prior to 1990 for only some years namely: 1959-61; 1963; some of 1967-68; 1969; some of 1972-73; 1975; 1980; 1985.

Tunisia

Exempt Fisheries											
coral, sponge, sea cucumber	diving	None Provided	Not Applicable	Not Applicable	Tunisia EEZ	None Provided	None Provided	A/G		2000-2017 import trade data	
molluscs	hand collected	None Provided	Not Applicable	Not Applicable	Tunisia EEZ	None Provided	None Provided	N/I		2000-2017 import trade data; http://www.fao.org/fishery/countrysector/naso_tunisia/en ;	did not find mention of wild capture; likely oysters and mussels
swordfish	pole and line	899 (56 are large scale)	Not Applicable	Not Applicable	Mediterranean Sea	None Provided	None Provided	A/G		2000-2017 import trade data; tuna spreadsheet http://www.fao.org/fishery/countrysector/naso_tunisia/en ;	
sea bream, seabass	Aquaculture	None Provided	Not Applicable	Not Applicable	Governorate of Sousse, Governorate of Medenine	None Provided	None Provided	N/I		http://www.faomedsudmed.org/html/country_fin/Countr	did not find mention of wild capture
Bluefin tuna	Aquaculture/farming	Not Applicable	Not Applicable	Not Applicable	Tunisia EEZ	None Provided	None Provided	N/I	ICCAT	https://www.iccat.int/en/ffb.asp	ICCAT farming facilities for bluefin tuna

Export Fisheries											
lobster	gillnet	<11,758	Not Applicable	Not Applicable	Tunisia EEZ	None Provided	None Provided	N/I, A/G		2000-2017 import trade data	Tunisia's comments on draft LOFF contain reference to 2 law - one national and one international that regulate treatment of marine mammals.
octopus/squid/cuttlefish	Traps/Pots	<11,758	Not Applicable	Not Applicable	EEZ	None Provided	None Provided	A/G		2000-2017 import trade data	
sardine/anchovy	Purse Seine	<1,022	Not Applicable	Not Applicable	Tunisia EEZ, Mediterranean Sea	None Provided	None Provided	N/I, C/O		http://www.iucnredlist.org/details/16369383/0	IUCN reports incidental catch of Mediterranean Bottlenose Dolphin off the coast of Tunisia
tuna (albacore, bigeye, bluefin, yellowfin)	Purse Seine	899 (56 are large scale)	Not Applicable	Not Applicable	Mediterranean Sea	None Provided	None Provided	A/G	ICCAT, GFCM	2000-2017 import trade data; tuna spreadsheet; http://www.faomedsudmed.org/html/country_fin/Countr	found mention of tuna aquaculture but no further information
mackerel	purse seine	<11,758	Not Applicable	Not Applicable	Tunisia EEZ	None Provided	None Provided	N/I		2000-2017 import trade data	
shrimp	gill net	<11,758	Not Applicable	Not Applicable	None Provided	None Provided	None Provided	N/I		2000-2017 import trade data	
shrimp	trawl, bottom	<1,022	Not Applicable	Not Applicable	None Provided	None Provided	None Provided	N/I		2000-2017 import trade data	

Export Fisheries with No Information											
flatfish	none provided	None Provided	none provided	Not Applicable	None Provided	None Provided	None Provided	N/I		Fishery listed in Tunisia comments on draft LOFF as exported to the US	
porgy	none provided	None Provided	none provided	Not Applicable	None Provided	None Provided	None Provided	N/I		Fishery listed in Tunisia comments on draft LOFF as exported to the US	

Turkey

Exempt Fisheries											
swordfish	harpoon	none provided	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data U.S. Trade data;	modified driftnets are prohibited since 2011
bonito	hand lines	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G	ICCAT	https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
bonito	hand lines	none provided	not applicable	not applicable	Marmara Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_IL_3.pdf	
molluscs (mussels, snails)	dredge	none provided	not applicable	not applicable	Western Black Sea	none provided	none provided	A/G		U.S. Trade data; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf; http://www.fao.org/fishery/countrysector/naso_turkey/en	
molluscs coral	aquaculture hand collection	none provided not applicable	not applicable not applicable	not applicable not applicable	Western Black Sea coastal EEZ	none provided none provided	none provided none provided	A/G A/G		U.S. Trade data; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf; http://www.fao.org/fishery/countrysector/naso_turkey/en	
sea cucumber	hand collection (diver)	not applicable	not applicable	not applicable	coastal EEZ	none provided	none provided	A/G		U.S. Trade data, https://spccpstore1.blob.core.windows.net/digitalibrary-docs/files/a8/a89e466abb99918adaec2f0a4674d53e.pdf?sv=2015-12-11&sr=b&sig=564eJGxeqpiGevDBXaz5Qi7wQG9rH4Xi8Ng5cLM5h%2BE%3D&se=2017-12-26T20%3A32%3A26Z&sp=&rscc=public%2C%20max-age%3D864000%2C%20max-stale%3D864000&rsct=application%2Fpdf&rscd=inline%3B%20filename%3D%22BDM28_40_Aydin.pdf%22	
sponge	hand collection (diver)	not applicable	not applicable	not applicable	coastal EEZ	none provided	none provided	A/G		U.S. Trade data, http://www.academia.edu/8532145/A_LOST_ECONOMIC_ACTIVITY_IN_TURKEY_IS_SPONGE_FISHING_T%3C3%BCrkiye_de_Yitirilen_Bir_%C4%B0ktisadi_Faaliyet_S%C3%Bongercilik	
tuna, bluefin	aquaculture/farming	7 farms	AKUA GROUP ORKINOS BESICILIGI PROJESI (2); BASARANLAR SU ÜRÜNLERI YET.SAN.VE TIC.LTD.STI. ; KILIÇ DENİZ ÜRÜNLERI İTH. İHR. A.S. ; TSM DENİZ ÜRÜNLERI SAN. VE TIC. A.S ; SAGUN ORKINOS BESICILIGI PROJESI ; AK-TUNA GEMICILIK BALIKÇILIK TURIZM VE DIS TIC. LTD. STI.	not applicable	Mediterranean Sea	none provided	none provided	N/I	ICCAT	U.S. Trade data; Tuna spreadsheet; https://www.iccat.int/en/ffbres.asp?selectCountry=024&cajaFFBName=checkbox&cajaOwna=checkbox&cajaOwad=checkbox&cajaReg=checkbox&cajaOpna=checkbox&cajaOpad=checkbox&selectOrder=1&selectOrder2=6&selectInterval=10&Submit=Search, http://www.iccat.int/Documents/BienRep/REP_TRILINGUAL_14-15_IL_3.pdf	7 ICCAT farming facilities for BFT need further information on farming operations and process
seaweed	aquaculture (lines)	none provided	none provided	not applicable	coastal EEZ	none provided	none provided	N/I		U.S. Trade data, http://www.fao.org/fishery/countrysector/naso_turkey/en	
Export Fisheries											
tuna (bluefin, albacore, swordfish, bigeye)	purse seine	6824 vessels, 8 of which are large scale	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G		U.S. Trade data; Tuna spreadsheet; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	Note: US trade data shows import of bigeye, but ICCAT docs say there is no fishing activity for BET. Modified driftnets are prohibited since 2011.
swordfish	longline	150	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/Meetings/Docs/2017_PA4_FINAL_ENG.pdf, http://www.iccat.int/Documents/BienRep/REP_TRILINGUAL_14-15_IL_3.pdf	modified driftnets are prohibited since 2011
sardine, anchovy, herring, smelt, mackerel, bonito	purse seine	232	not applicable	not applicable	Black Sea	none provided	none provided	A/G		U.S. Trade data; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
sardine, anchovy, herring, smelt, mackerel, bonito	purse seine	131	not applicable	not applicable	Sea of Marmara	none provided	none provided	A/G	ICCAT	U.S. Trade data; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf, https://www.iccat.int/Documents/BienRep/REP_TRILIN	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
sardine, anchovy, herring, smelt, mackerel, bonito	purse seine	59	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
bonito	gillnet	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
bonito	gillnet	none provided	not applicable	not applicable	Marmara Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
bonito	surrounding nets	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
bonito	surrounding nets	none provided	not applicable	not applicable	Marmara Sea	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	
bonito	longline	none provided	not applicable	not applicable	15-31 August, Turkey EEZ	none provided	none provided	A/G	ICCAT	U.S. Trade data; https://www.iccat.int/Documents/BienRep/REP_TRILIN_GUAL_14-15_II_3.pdf	ICCAT country report mentions longlines fishing 15-31 August in territorial waters
sea bass	aquaculture	none provided	not applicable	not applicable	Aegean Sea coast	none provided	none provided	A/G		U.S. Trade data; ftp://ftp.fao.org/fishery/countrysector/naso_turkey/en	FAO mentions aquaculture
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal gillnet	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal trammel net	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, swordfish, snapper	Artisanal longline	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal traps	none provided	not applicable	not applicable	Black Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal gillnet	none provided	not applicable	not applicable	Sea of Marmara	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal trammel net	none provided	not applicable	not applicable	Sea of Marmara	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, swordfish, snapper	Artisanal longline	none provided	not applicable	not applicable	Sea of Marmara	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal traps	none provided	not applicable	not applicable	Sea of Marmara	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal gillnet	none provided	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal trammel net	none provided	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, swordfish, snapper	Artisanal longline	none provided	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal traps	none provided	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal gillnet	none provided	not applicable	not applicable	Aegean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal trammel net	none provided	not applicable	not applicable	Aegean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, swordfish, snapper	Artisanal longline	none provided	not applicable	not applicable	Aegean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	Artisanal traps	none provided	not applicable	not applicable	Aegean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	trawl	212	not applicable	not applicable	Black Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	trawl	190	not applicable	not applicable	Sea of Marmara	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	trawl	202	not applicable	not applicable	Mediterranean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
mixed fishery: mullet, whiting, turbot, flatfish, drum, croaker, sole, dab, cuttlefish, octopus, squid, snapper	trawl	84	not applicable	not applicable	Aegean Sea	none provided	none provided	A/G		U.S Trade data, ftp://ftp.fao.org/FI/DOCUMENT/fcp/en/FI_CP_TR.pdf	
rock lobster, common lobster	trammel nets	2	not applicable	not applicable	15 April - 15 June, Aegean Sea, possibly other regions	none provided	none provided	A/G		U.S. Trade data, https://www.researchgate.net/profile/Onur_Gonulal/publication/288828202_SPINY_LOBSTER_Palinurus_elephas_FABRICIUS_1787_AND_COMMON_LOBSTER_Homarus_gammarus_LINNAEUS_1758_FISHING_IN_THE_AEGEAN_SEA/links/5684d4df08aebccc4e10efba/SPINY-LOBSTER-Palinurus-elephas-FABRICIUS-1787-AND-COMMON-LOBSTER-Homarus-gammarus-LINNAEUS-1758-FISHING-IN-THE-AEGEAN-SEA.pdf	
Export Fisheries with No Information											
crab	none provided	none provided	not applicable	not applicable	coastal EEZ	none provided	none provided	N/I		U.S. Trade data	
Turks and Caicos Islands											
Exempt Fisheries											
conch	freediving	300	Caicos Pride, Caicos Seafood, Caicos Fisheries, Provo Seafood	TCI	Turks Bank & Caicos Bank	none	none	A/G		U.S. Trade Data	It is unclear whether "conch" is conch shells, conch meat or both and whether "molluscs" is conch meat. However, the only molluscs harvested and exported in the TCI is queen conch Strombus/Lobatus gigas. Number of vessels is approximate - all Turks and Caicos' islanders have the right to fish, few exercise this right on a daily basis but may spend a few days a year fishing only, while others would be fulltime fishers
lobster	freediving	300	Caicos Pride, Caicos Seafood, Caicos Fisheries, Provo Seafood	TCI	Turks Bank & Caicos Bank	none	none	A/G		U.S. Trade Data	Number of vessels is approximate - all Turks and Caicos' islanders have the right to fish, few exercise this right on a daily basis but may spend a few days a year fishing only, while others would be fulltime fishers

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
lobster	freediving & trap	300	Caicos Pride, Caicos Seafood, Caicos Fisheries, Provo Seafood	TCI	Turks Bank & Caicos Bank	none	none	A/G		U.S. Trade Data	Number of vessels is approximate - all Turks and Caicos' islanders have the right to fish, few exercise this right on a daily basis but may spend a few days a year fishing only, while others would be fulltime fishers
molluscs	freediving	300	Caicos Pride, Caicos Seafood, Caicos Fisheries, Provo Seafood	TCI	Turks Bank & Caicos Bank	none	none	A/G		U.S. Trade Data	It is unclear whether "conch" is conch shells, conch meat or both and whether "molluscs" is conch meat. However, the only molluscs harvested and exported in the TCI is queen conch Strombus/Lobatus gigas. Number of vessels is approximate - all Turks and Caicos' islanders have the right to fish, few exercise this right on a daily basis but may spend a few days a year fishing only, while others would be fulltime fishers
Export Fisheries											
tuna, swordfish	longline	0	Caicos Pride	TCI	Turks and Caicos Islands EEZ	none documented	none documented	A/G		U.S. Trade Data	The export of pelagic species was associated with a study using long-lines. This study was halted and there are currently no commercial pelagic fisheries operating in the Turks and Caicos. The fishing at the time was by Day Boat fisheries from the US under an access agreement and due to the vessels being US flagged, they were required to fish under US regs for Highly Migratory Species as well as TCI regs.
Ukraine											
Exempt Fisheries											
mussels	Aquaculture	not applicable	none provided	not applicable	none provided	no information	no information	A/G		2007-2017 import trade data; http://www.fao.org/fishery/countrysector/naso_ukraine/en	
caviar	Aquaculture	not applicable	not applicable	not applicable	none provided	no information	no information	A/G		2007-2017 import trade data; http://www.fao.org/fishery/countrysector/naso_ukraine/en	not clear if there is also a wild caught fishery
mackerel (horse, chub), halibut, seabream	ring nets lift nets, cast nets	12-14	not applicable	not applicable	EEZ of Guinea (Conokry), Mauritania, Morocco, and Senegal	none provided	none provided	N/I, A/G		http://www.fao.org/oldsite/FCP/en/UKR/profile.htm , http://www.fao.org/oldsite/FCP/en/UKR/profile.htm	noted in 2001
abalone	Aquaculture	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	one off imports
rock lobster	Aquaculture	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	one off imports
seaweed	Aquaculture	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	one off imports
krill	trawl, midwater	1	not applicable	not applicable	Antarctic Peninsula Subareas 48.1-4	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data	active
toothfish	longline	2	not applicable	not applicable	Subarea 88.1-2	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data	active
Export Fisheries											
mackerel (horse, chub), halibut, seabream	Purse seine, trawl, midwaters	12-14	not applicable	not applicable	EEZ of Guinea (Conokry), Mauritania, Morocco, and Senegal	none provided	none provided	N/I, A/G		http://www.fao.org/oldsite/FCP/en/UKR/profile.htm , http://www.fao.org/oldsite/FCP/en/UKR/profile.htm	noted in 2001
sardine, anchovy	trawl and seine	none provided	not applicable	not applicable	Black and Azov Seas within the EEZ of Ukraine	none provided	none provided	N/I, A/G		2007-2017 import trade data; http://www.fao.org/oldsite/FCP/en/UKR/profile.htm	
squid (Nototodaruss spp.), hoki (Macrurus novaezelandiae), snoek (Thysites atun), horse mackerel (Trachurus spp.)	trawl and seine	5	none provided	none provided	EEZ of New Zealand	none provided	none provided	N/I, A/G		2007-2017 import trade data; http://www.fao.org/oldsite/FCP/en/UKR/profile.htm	
Export Fisheries with No Information											
salmon	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	
eels	trawl, hand collection, nets	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	one off imports
halibut	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	
clam	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		2007-2017 import trade data	one off imports

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
United Arab Emirates											
Exempt Fisheries											
caviar (Sturgeon)	aquaculture	not applicable	Emirates Aquatech/Yasa	not applicable	Abu Dhabi	not applicable	not applicable	N/I, A/G	RECOFI	http://www.abc.net.au/news/2016-04-19/world-largest-caviar-factory-in-abu-dhabi/7336760?pfmredir=sm; http://www.emiratesaquatech.ae/ ; 2007-2016 Trade import data	key export
tuna, albacore, yellowfin	handline and trolling	none provided	not applicable	not applicable	Indian Ocean	none provided	none provided	A/G		2007-2016 Trade import data	UAE are observers to IOTC but not members no activity in IOTC convention area recorded in the past several years
gilthead seabream, pacific salmon, perch, bass	Aquaculture	not applicable	Aquaculture: Al Jaraf Fisheries + Fish Farm	none provided	Abu Dhabi + Fujairah	none provided	none provided	N/I, A/G		2007-2016 Trade import data, http://www.seafish.org/media/1683368/uae.pdf	
anchovy/sardine	beach seine	4	not applicable	not applicable	Sharajah, EEZ	none provided	none provided	N/I, A/G		http://www.fao.org/fi/oldsite/FCP/en/are/profile.htm	key export
rock lobster	diving	none provided	Asmak, Royal Fisheries	not applicable	taken on the East Coast of the country and sold locally	none provided	none provided	N/I, A/G		2007-2016 Trade import data	
tuna, albacore, yellowfin	hook and line	700-800	not applicable	not applicable	Indian Ocean, East coast	spotted dolphin, long-beaked common dolphin, bottlenose dolphin, Risso's dolphin, humpback whale	942- 3846	A/G		2007-2016 Trade import data http://www.fao.org/fishery/countrysector/naso_uae/en; 2007-2016 Trade import data	UAE are observers to IOTC but not members no activity in IOTC convention area recorded in the past several years
pearl oysters	Artisinal manual catch	200	none provided	none provided	Across the country	not applicable	not applicable	A/G		2007-2016 Trade import data	
snapper	Traps + Hook and line	none provided	not applicable	not applicable	Across the country	none provided	none provided	A/G		2007-2016 Trade import data	
shrimp	Aquaculture	not applicable	Aquaculture: Al Jaraf Fisheries	not applicable	Abu Dhabi	not applicable	not applicable	A/G		2007-2016 Trade import data	Local wild shrimp catch is not permitted + gear is not available
Export Fisheries											
Mackerel	net	2500	not applicable	not applicable	EEZ	none provided	none provided	A/G		U.S. Trade Data	
anchovy/sardine	net	50	not applicable	not applicable	Fujairah and RAK	none provided	none provided	A/G		U.S. Trade Data	
rock lobster	not targeted due to small numbers so usually bycatch only	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		U.S. Trade Data	
groundfish (cod, pollock), mackerel	traps	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2007-2016 Trade import data, http://www.asmak.biz/product1.html, http://www.royalfisheries.com/Seafood.html, https://www.youtube.com/watch?v=jFEVjAgVe8E, http://www.fao.org/fi/oldsite/FCP/en/ARE/body.htm	key export
Mackerel (Spanish), orange-spotted grouper, spangled emperor, painted sweetlips, snapper	purse seine	4	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		http://gulfnnews.com/news/uae/environment/uae-fish-stocks-are-severely-overexploited-1.1698029	
tuna, albacore, yellowfin	gillnet	700-800	not applicable	not applicable	Indian Ocean East coast	spotted dolphin, long-beaked common dolphin, bottlenose dolphin, Risso's dolphin, humpback whale	942- 3846	P, A/G		2007-2016 Trade import data	UAE are observers to IOTC but not members no activity in IOTC convention area recorded in the past several years
shark/ray	longline	200	not applicable	not applicable	Indian Ocean	spotted dolphin, long-beaked common dolphin, bottlenose dolphin, Risso's dolphin, humpback whale	none provided	N/I, A/G		http://onlinelibrary.wiley.com/doi/10.1111/faf.12227/full	artisanal + It is not permitted to export locally caught sharks + Ministereal Decree 500 for the year 2014 regulates the fishing and trading of sharks
squid, cuttlefish	traps	none provided	not applicable	not applicable	Across the country	Dubai, Mabela, Jalan Bani, Jouba, Masira, Salalah	none provided	N/I, A/G		2007-2016 Trade import data	
United Kingdom											
Exempt Fisheries											
Atlantic cod	Hooks and lines	305	Not applicable	Not applicable	year-round: Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	A/G		U.S. Trade Data, UK provided	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Atlantic cod	Lift Nets	2	Not applicable	Not applicable	Sept; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Crab (king, stone, red, green, swimming, spider, other spp)	Hooks and lines	246	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	A/G		U.S. Trade Data, UK provided	
herring	Hooks and lines	70	Not applicable	Not applicable	Oct-Mar.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	A/G		U.S. Trade Data, UK provided	
icefish	trawl, midwater	3	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data, UK provided	active
Lobsters (European and squat lobsters)	Hooks and lines	273	Not applicable	Not applicable	Jul-Sept.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	A/G		U.S. Trade Data, UK provided	
Norwegian Lobster	Hooks and lines	14	Not applicable	Not applicable	Jun, Jul, Sept; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	A/G		U.S. Trade Data, UK provided	
Mackerel	Hooks and lines	792	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	A/G		U.S. Trade Data, UK provided	
Mackerel	Lift Nets	1	Not applicable	Not applicable	Sept.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
toothfish	longline	3	Not applicable	Not applicable	Subarea 88.1-2	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data, UK provided	active
Export Fisheries											
crab	pots	1	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	None documented	None documented	C/O, A/G	CCAMLR	U.S. Trade Data, UK provided	last active in 2007
toothfish	longline	4	Not applicable	Not applicable	Subarea 48.3-4 (South Georgia Is.)	sperm whale, southern elephant seal, seals unspecified	2007: 1 elephant seal killed, 2009: 1 unspecified seal killed, 2011: 2 sperm whales released, 2012: 1 sperm whale killed	P, A/G	CCAMLR	U.S. Trade Data, UK provided	active
tuna (bigeye, albacore, yellowfin), swordfish	longline	2	Not applicable	Not applicable	IOTC and CCSBT Convention Areas	none provided	none provided	C/O, A/G	IOTC, CCSBT	IOTC and CCSBT vessel registry, U.S. Trade Data	
Atlantic cod	trawl	1	Not applicable	Not applicable	Feb.; Northwest Atlantic Ocean (FAO area 21)	common dolphin	12-72	P, A/G		Cetacean Bycatch Appendix	
Atlantic cod	Dredge	31	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Atlantic cod	gillnet and entangling nets	704	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	gray seal, common dolphin, harbor porpoise	0.1, 6, 436	P, A/G		IWC 2010-11, Cetacean Bycatch Appendix	
Atlantic cod	Seine nets	23	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Atlantic cod	Traps	235	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Atlantic cod	trawl	742	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	common dolphin	12-72	P, A/G		Cetacean Bycatch Appendix	
Crab (king, stone, red, green, swimming, spider, other spp)	Dredge	30	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Crab (king, stone, red, green, swimming, spider, other spp)	gillnet and entangling nets	431	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Crab (king, stone, red, green, swimming, spider, other spp)	traps	1883	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	

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								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
Crab (king, stone, red, green, swimming, spider, other spp)	trawl	262	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	common dolphin	12-72	P, A/G		Cetacean Bycatch Appendix	
herring	gillnet and entangling nets	286	Not applicable	Not applicable	Oct-Mar.; Northeast Atlantic Ocean (FAO area 27)	harbor porpoise, gray seal, common dolphin	7 (0.1), 417, 276	P, A/G		MSRA bycatch table "UK_812Report2015_on2014_bycatch data"	
herring	Seine nets	4	Not applicable	Not applicable	Oct-Mar.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
herring	Surrounding nets	4	Not applicable	Not applicable	Oct-Mar.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
herring	Traps	10	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
herring	trawl	122	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	gray seal, common dolphin	0.3, 12-72	P, A/G		Cetacean Bycatch Appendix	
Lobsters (European and squat lobsters)	Dredge	34	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Lobsters (European and squat lobsters)	gillnet and entangling nets	478	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Lobsters (European and squat lobsters)	Traps	2129	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	minke whale and humpback whale	occasional entanglement (1, 3)	P, A/G		IWC 2010-12	
Lobsters (European and squat lobsters)	trawl	295	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	common dolphin	12-72	P, A/G		Cetacean Bycatch Appendix	
Norwegian Lobster	Dredge	18	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Norwegian Lobster	Traps	372	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Norwegian Lobster	trawl	603	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	common dolphin	12-72	P, A/G		Cetacean Bycatch Appendix	
Mackerel	Dredge	11	Not applicable	Not applicable	Jul-Oct.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented				
Mackerel	gillnet and entangling nets	505	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Mackerel	Seine nets	9	Not applicable	Not applicable	Oct-May; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Mackerel	Surrounding nets	7	Not applicable	Not applicable	Sept-Oct.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Mackerel	Traps	325	Not applicable	Not applicable	Jun-Oct.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Mackerel	trawl	301	Not applicable	Not applicable	Oct-Mar.; Northeast Atlantic Ocean (FAO area 27)	gray seal, common dolphin	0.1, 12-72	P, A/G		Cetacean Bycatch Appendix	
Shrimp (common shrimp, northern prawn, other spp)	Traps	41	Not applicable	Not applicable	Oct-Dec.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Shrimp (common shrimp, northern prawn, other spp)	trawl	54	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	common dolphin	12-72	P, A/G		Cetacean Bycatch Appendix	
Salmon (farmed)	Aquaculture (cages)	150	none provided	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	none provided	none provided	P, A/G, C/O		U.S. Trade Data, UK provided	Some fisheries (in Scotland) have a seal license. The basis for seal licensing is to permit limited control of individual animals preying on particular fisheries or fish farms. Licenses are only granted to individuals or companies who have satisfied the strict conditions set, including that any killing should be a last resort and that a strict maximum number should never be exceeded.

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								(Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))			
halibut, haddock, plaice, sole	gillnet	none provided	none provided	none provided	none provided	gray seal, common dolphin, harbor porpoise	0.1, 6, 436	N/I, A/G		IWC 2010-11, Cetacean Bycatch Appendix	
sea bass	pair trawl	none provided	none provided	none provided	winter, ICES area 7 (English Channel)	common dolphin, harbor porpoise	200+	N/I, A/G		in: "The Price of Fish: A review of cetacean bycatch in fisheries in the north-east Atlantic", and IWC 2009-11 MSRA bycatch table	The winter fishery for sea bass in the English Channel using pair trawls had an observed incidental take of 428 common dolphins between 2000/01 and 2005/06 (Northridge, 2006)
sardine, anchovy	gillnet	none provided	none provided	none provided	Northeast Atlantic Ocean (FAO area 27)	harbor porpoise, gray seal, common dolphin	7, 417, 276	N/I, A/G		"UK_812Report2015_on2014_bycatch data"	
demersal fishes	gillnet	none provided	none provided	none provided	ICES area 7 (English Channel and Celtic Sea)	common dolphin	1028	N/I, A/G		in: "The Price of Fish: A review of cetacean bycatch in fisheries in the north-east Atlantic"	
Export Fisheries with No Information											
Crab (king, stone, red, green, swimming, spider, other spp)	Miscellaneous gear	6	Not applicable	Not applicable	year-round; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Norwegian Lobster	Miscellaneous gear	3	Not applicable	Not applicable	Apr.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	C/O, A/G		U.S. Trade Data, UK provided	
Shrimp (common shrimp, northern prawn, other spp)	Miscellaneous gear	2	Not applicable	Not applicable	Aug.; Northeast Atlantic Ocean (FAO area 27)	Marine mammal interactions indicated species not provided	none documented	N/I, C/O, A/G		U.S. Trade Data, UK provided	
Salmon (wild)	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Cuttlefish	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
seaweed	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade Data	
Uruguay											
Export Fisheries											
toothfish	longline	1	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	southern elephant seal	2014: 1 elephant seal killed	P, A/G	CCAMLR	U.S. Trade Data	active fishery. Female southern elephant seal, entangled during depredation event
toothfish	pot	1	Not applicable	Not applicable	Subarea 48.3 (South Georgia Is.)	none reported	none	A/G	CCAMLR	U.S. Trade Data	last active in 2008
toothfish	longline	1	Not applicable	Not applicable	Subarea 58.4.1 (East Antarctica)	none reported	none	A/G	CCAMLR	U.S. Trade Data	last active in 2009
toothfish	longline	1	Not applicable	Not applicable	Subarea 58.4.3a and Subarea 58.4.3b	none reported	none	A/G	CCAMLR	U.S. Trade Data	last active in 2009
toothfish	longline	2	Not applicable	Not applicable	Subarea 88.1-2	none reported	none	A/G	CCAMLR	U.S. Trade Data	last active in 2011
squid, Argentine short-finned	trawl	3	Not applicable	Not applicable	Common Fishing Area Argentina-Uruguay, from the 70-metre isobaths to 400 meter	None documented	None documented	A/G		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Grouper, snapper	longline, pelagic		Not applicable	Not applicable	Uruguayan EEZ in the 300 meter isobaths (year round) Argentina-Uruguay Treaty Zone	None documented	None documented	A/G		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Whitemouth Croaker	trawl, bottom	33	Not applicable	Not applicable	Uruguayan Exclusive Economic Zone, between five and seventy meter deep.	none provided	none provided	A/G		Uruguay provided	
Common hake	trawl	20	Not applicable	Not applicable	Common Fishing Area Argentina-Uruguay, between fifty and four hundred meter deep	None documented	None documented	A/G		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Tuna, swordfish, dolphin fish	longline	3	Not applicable	Not applicable	Southwest Atlantic Area 41	Killer whales Common dolphins South American sea lion Subantarctic fur seal	incidental capture of marine mammals was 0.0051 cetaceans/1000 hooks and 0.0099 pinnipeds/1000 hooks.	P, A/G	ICCAT	U.S. Trade Data	It was also observed that the incidental capture oscillated according to the season (being spring and winter the periods with more captures). Spatially, the largest captures were concentrated between 37° and 38° S, and 49° y 51° W, interannual and with the sea surface temperature (6).
marine fish (drum, croaker, mullet, sea bream,) sharks	gillnet	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	franciscana dolphins, sea lions unspecified	>700/yr. franciscana dolphin	P, A/G		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Export Fisheries with No Information											

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whiting	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
king weakfish	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Castaneta	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Blackbelly rosefish	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Brazilian codling	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Parona leatherjacket	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
narrownose smooth-hound	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
groundfish, haddock	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Patagonian toothfish, Patagonian grenadier, Chimaeras	longline	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Ariid catfish	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
sharks, rays	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
flounder	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
bluefish	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
angelfish	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
swordfish	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	
Argentinian sandperch	none provided	none provided	Not applicable	Not applicable	Argentina-Uruguay Treaty Zone	none provided	none provided	N/I		Argentina's National Plan of Action to Reduce the Interactions between Marine Mammals and Fisheries in the Argentine Republic	

Vanuatu

Exempt Fisheries											
trochus	aquaculture and hand collecting	not applicable	none provided	none provided	none provided	none provided	none provided	none provided		U.S. Trade Data	unclear if exporting to USA
green snail	aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	none provided		U.S. Trade Data	unclear if exporting to USA
seaweed	aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	none provided		U.S. Trade Data	unclear if exporting to USA
corals	aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	none provided	http://www.malffb.gov.vu/index.php?id=3		The aquaculture of corals has developed in Vanuatu since the trade of wild-caught fragments from the reef is prohibited.
sea cucumber	diving	none provided	none provided	none provided	none provided	none provided	none provided	none provided	U.S. Trade Data		unclear if exporting to USA
lobster	diving	none provided	none provided	none provided	none provided	none provided	none provided	none provided	U.S. Trade Data		unclear if exporting to USA
clam nspf	aquaculture	not applicable	none provided	none provided	none provided	none provided	none provided	none provided	https://www.spc.int/aquaculture/index.php?option=com_content&view=article&id=46:aquaculture-is-taking-off-in-vanuatu&catid=19:programming		The trade of wild clams has been banned from Vanuatu and all exported animals must now be cultured

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	pole and line	none provided	not applicable	not applicable	Western Central Pacific Ocean	none provided	none provided	A/G	SPC, SPREP, WCPFC, SPRFMO	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf	Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin) prawn	pole and line aquaculture	1* not applicable	not applicable none provided	not applicable none provided	Atlantic Ocean none provided	none provided none provided	none provided none provided	A/G	ICCAT U.S. Trade Data	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf ; ICCAT country report	*1 pole and line vessel in 2014 unclear if exporting to USA
Export Fisheries											
snapper, grouper, tuna	none provided	none provided	none provided	none provided	artisanal, inshore coastal	none provided	none provided			http://www.malffb.gov.vu/index.php?id=3 ; http://fisheries.gov.vu/index.php/aquaculture	domestic only, no exports
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	72	not applicable	not applicable	Eastern Tropical Pacific Ocean, Inter-American Tropical Tuna Convention Area	none provided	none provided	A/G	IATTC; Provisionally apply AIDCP	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf (country report); https://www.iattc.org/FisheryStatusReportsENG.htm ; IATTC RVR; tuna spreadsheet	Note: joined IATTC in 2016
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	61-84	not applicable	not applicable	Western Central Pacific Ocean	false killer whale, miscellaneous dolphin	2011-2014: false killer whale (2), Risso's dolphin (1) – WCPFC observer data	P, A/G	WCPFC	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf (country report)	observer program; pelagic driftnets are prohibited Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009 Bycatch numbers are from WCPFC country report
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	none provided	not applicable	not applicable	South Pacific Ocean	none provided	none provided	A/G	SPC, SPREP, WCPFC, IATTC, IOTC, ICCAT, SPRFMO	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf	Vessel estimates are for the entire Pacific, Indian, and Atlantic regions observer program; pelagic driftnets are prohibited Japan, Korea, Taiwan, China, Fiji Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009 PS reduction effort 2014
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	none provided	not applicable	not applicable	North Pacific Ocean	none provided	none provided	A/G	SPC, SPREP, WCPFC, IATTC, IOTC, ICCAT, SPRFMO	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf	Vessel estimates are for the entire Pacific, Indian, and Atlantic regions observer program; pelagic driftnets are prohibited Japan, Korea, Taiwan, China, Fiji Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009 PS reduction effort 2014

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	3-7	not applicable	not applicable	Atlantic Ocean	none provided	none provided	A/G	ICCAT	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/fi/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/fi/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf ; ICCAT country report	7 vessels in 2013, 3 vessels 2014
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	0*	not applicable	not applicable	Indian Ocean	none provided	none provided	A/G	IOTC	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/fi/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/fi/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf (country report); IOTC reports	*No longer a member of IOTC as of 2016 4 vessels in 2010, 2 vessels in 2012, 0 vessels in 2013
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	purse seine	3-22	not applicable	not applicable	Western Central Pacific Ocean	false killer whale, miscellaneous dolphin	2011-2014: false killer whale (7), Risso's dolphin (2), Common dolphin (2), Rough toothed dolphin (1), bottlenose dolphin (3) -- WCPFC observer data	P, A/G	WCPFC	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/fi/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/fi/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf (country report)	observer program; pelagic driftnets are prohibited Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009 PS reduction effort 2014 bycatch numbers are from WCPFC country report
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	purse seine	none provided	not applicable	not applicable	Atlantic Ocean	none provided	none provided	P, A/G	ICCAT	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/fi/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/fi/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf	Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009 PS reduction effort 2014
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	purse seine	0*	not applicable	not applicable	Indian Ocean	none provided	none provided	A/G	IOTC	2015-2016 trade import data; http://www.malffb.gov.vu/index.php?id=3 ; http://www.fao.org/fi/oldsite/FCP/en/VUT/body.htm ; http://www.fao.org/fi/oldsite/FCP/en/VUT/profile.htm ; http://www.fao.org/fishery/facp/VUT/en ; WCPFC; https://www.wcpfc.int/system/files/AR-CCM-28%20Vanuatu%20AR%20Part%201%20Rev%201_0.pdf ; 2014 IOTC report;	*No purse seine vessels in 2014/2015 -- no longer a member of IOTC as of 2016 Purse seine vessel estimates are for the entire Pacific, Indian, and Atlantic regions PS reduction effort 2014
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	trawl	none provided	not applicable	not applicable	none provided	none provided	none provided	A/G		tuna spreadsheet	

Venezuela

Exempt Fisheries											
coral	diving, hand collection	none provided	none provided	none provided	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data 2000-2017 U.S. import data; https://www.iccat.int/Documents/CVSP/CV071_2015/n_5/CV071052203.pdf ; https://www.iccat.int/Documents/CVSP/CV072_2016/n_4/CV072041020.pdf	
dolphinfish snapper, grouper	artisanal hand lines handlines	none provided	not applicable	not applicable	Caribbean Sea	none provided	none provided	N/I, A/G	ICCAT	2000-2017 U.S. import data	Venezuelan artisanal off-shore (VAOS) fleet
salmon	farmed	not applicable	none provided	none provided	none provided	none provided	none provided			2000-2017 U.S. import data 2000-2017 U.S. import data; http://www.fao.org/fishery/countrysector/naso_venezuela/en	
molluscs (mussels, oysters, scallops)	aquaculture	not applicable	none provided	N/A	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data; http://www.fao.org/fishery/countrysector/naso_venezuela/en	
shrimp	aquaculture	not applicable	none provided	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data; http://www.fao.org/fishery/countrysector/naso_venezuela/en	

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
Export Fisheries											
dolphinfish	artisanal longline	none provided	not applicable	not applicable	Caribbean Sea	none provided	none provided	N/I, A/G	ICCAT	2000-2017 U.S. import data; https://www.iccat.int/Documents/CVSP/CV071_2015/n_5/CV071052203.pdf ; https://www.iccat.int/Documents/CVSP/CV072_2016/n_4/CV072041020.pdf	Venezuelan artisanal off-shore (VAOS) fleet
sardine	artisanal encircling nets	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data; http://www.insopesca.gob.ve/1/?page_id=48	Limited by law to artisanal fishermen
sardine	artisanal purse seine	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data; http://www.insopesca.gob.ve/1/?page_id=48	Limited by law to artisanal fishermen
shrimp	trawl	0*	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data; http://www.fao.org/fishery/countrysector/naso_venezuela/en ; http://www.seararoundus.org/doc/publications/wp/2015/Mendoza-Venezuela.pdf	*Industrial trawling prohibited in Venezuelan waters since 2009 - not active
snapper, grouper	longline	none provided	not applicable	not applicable	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data	
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	1	not applicable	not applicable	Eastern Tropical Pacific Atlantic Ocean, International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G	IATTC	https://www.iattc.org/PDFFiles2/FisheryStatusReports/FisheryStatusReport14.pdf	Vessel estimates are for the entire Pacific, Indian, and Atlantic regions observer program; pelagic driftnets are prohibited Japan, Korea, Taiwan, China, Fiji Fleet size capped at 116 vessels - 27 PS, 62 LL, 1 PL in 2009 PS reduction effort 2014
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	longline	70	not applicable	not applicable	Atlantic Ocean, International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G	ICCAT	ICCAT	
tuna (bigeye, albacore, skipjack, yellowfin, swordfish, marlin)	purse seine	4	not applicable	not applicable	Atlantic Ocean, International Convention for the Conservation of Atlantic Tuna Convention Area	none provided	none provided	A/G, N/I	ICCAT	ICCAT	
crab (Callinectes), crab (Portunidae)	pots, traps	none provided	none provided	none provided	none provided	none provided	none provided			2000-2017 U.S. import data	Might be from artisanal fishery but unclear
Export Fisheries with No Information											
squid/cuttlefish/octopus	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data	
rock lobster	none provided	none provided	none provided	none provided	none provided	none provided	none provided			2000-2017 U.S. import data	
mackerel (jack, horse), seabass,	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I, A/G		2000-2017 U.S. import data	

Vietnam

Exempt Fisheries											
corals, shells, cuttlebone	hand collection	not applicable	not applicable	not applicable	coastal areas	none provided	none provided	A/G		U.S. Trade Data	
grouper	demersal hook and line	18447	none provided	none provided	year-round, Vietnam EEZ, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
molluscs - oysters and mussels	hand collection, rakes	not applicable	none provided	none provided	tidal areas	none provided	none provided	A/G		Vietnam provided, U.S. Trade Data, VASEP 2011	
clam	hand collection, rakes	not applicable	not applicable	not applicable	Mekong Delta and Northern Provinces	none provided	none provided	A/G		Vietnam provided, U.S. Trade Data, VASEP 2011	
clam	aquaculture	not applicable	none provided	none provided	Mekong Delta and Northern Provinces, 22000ha	none provided	none provided	A/G		Vietnam provided, U.S. Trade Data, VASEP 2011	
snapper	demersal handline	17508	not applicable	not applicable	year-round, Mekong, Mekong, SW Phu Quoc, Vietnam EEZ	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
demersal fishes, tuna	hook and line	4,800	not applicable	not applicable	year-round, coastal, inshore, and offshore areas, north, central, and south regions	none documented	none documented	A/G	WCPCF	Vietnam provided, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc, https://www.wcpfc.int/system/files/AR-CNM-36%20VIETNAM%20PART%201.pdf	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
squid	stick net/lift net	3,731	not applicable	not applicable	year-round, coastal, inshore, and offshore areas, north and central regions	none documented	none documented	A/G		Vietnam provided, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
grouper, snapper, sea bass	aquaculture	not applicable	none provided	none provided	all coastal provinces, Small scale farming; marine fishes including grouper with total areas for farming of 1,2 million m3 floating cage	none provided	none provided	A/G, C/O		U.S. Trade Data, FAO Fishery Country Profile - Viet Name	
lobster	aquaculture	not applicable	none provided	none provided	Binh Dinh, Phu Yen and Khanh Hoa province in coastal areas of natural bays, 3,722,695 m3 of floating cage	none provided	none provided	A/G, C/O		Vietnam provided, U.S. Trade Data	
scallops	aquaculture	not applicable	none provided	none provided	Central Region, small scale farming	none provided	none provided	A/G, C/O		Vietnam provided, U.S. Trade Data	
marine snails	aquaculture	not applicable	none provided	none provided	coastal provinces, marine snail; 9000ha	none provided	none provided	A/G, C/O		Vietnam provided, U.S. Trade Data	
anchovy, sardine	lift nets	2262	not applicable	not applicable	South Long Chau, North Hon Me, Tonkin Gulf Mouth, north and central regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, FAO Fishery Country Profile - Viet Name, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
tuna (bigeye, bluefin, yellowfin, skipjack), swordfish	purse seine	1461	not applicable	not applicable	year-round, offshore areas, Vietnam EEZ	none documented	none documented	A/G	WCPFC	https://www.wcpfc.int/system/files/AR-CNM-36%20VIETNAM%20PART%201.pdf	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
Export Fisheries											
octopus	longline, demersal	401	not applicable	not applicable	year-round, coastal areas	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
anchovy, sardine	surrounding net	2262	not applicable	not applicable	coastal areas	none provided	none provided	A/G		Vietnam provided, U.S. Trade Data, FAO Fishery Country Profile - Viet Name	
swimming crab	gillnet, fixed	285	not applicable	not applicable	coastal areas, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, FAO Fishery Country Profile - Viet Name, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Applying for only vessel less than 90HP; Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
eels	aquaculture	not applicable	none provided	none provided	coastal areas	none provided	none provided	N/I		Vietnam provided, U.S. Trade Data	small-scale farmers
cuttlefish, grouper, mullet, snapper, demersal fisheries flatfish/sole	trawl, bottom	<20CV, 726; 20- <50, 3,593; 50- <90CV, 2,149; 90- <250CV, 2,615; 250- <400CV, 3,666; >400CV, 6,902	none provided	none provided	inshore and offshore areas, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
dolphinfish	gillnet	<20CV, 23,725; 20- <50, 5,583; 50- <90CV, 2,117; 90- <250CV, 1,771; 250- <400CV, 1,550; >400CV, 1,749	none provided	none provided	year-round, offshore areas	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
lobster	gillnet	<20CV, 23,725; 20- <50, 5,583; 50- <90CV, 2,117; 90- <250CV, 1,771; 250- <400CV, 1,550; >400CV, 1,749	not applicable	not applicable	year-round, coastal areas, north, central, and south regions	none documented	none documented	A/G		U.S. Trade Data, FAO Fishery Country Profile - Viet Name, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
lobster	trap	7609	not applicable	not applicable	year-round, coastal areas	none documented	none documented	A/G		U.S. Trade Data, FAO Fishery Country Profile - Viet Name	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
mackerel	gillnet	<20CV, 23,725; 20- <50, 5,583; 50- <90CV, 2,117; 90- <250CV,1,771; 250- <400CV, 1,550; >400CV, 1,749	not applicable	not applicable	year-round, coastal, inshore, and offshore areas, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
mackerel	purse seine	<20CV, 174; 20- <50, 743; 50- <90CV, 358; 90- <250CV,1,075; 250- <400CV, 1,347; >400CV, 1,528	not applicable	not applicable	year-round, coastal, inshore, and offshore areas, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
mullet	gillnet	<20CV, 23,725; 20- <50, 5,583; 50- <90CV, 2,117; 90- <250CV,1,771; 250- <400CV, 1,550; >400CV, 1,749	not applicable	not applicable	year-round, coastal, inshore, and offshore areas, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, U.S. Trade Data, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
tuna (bigeye, bluefin, yellowfin, skipjack), swordfish	longline	1755	not applicable	not applicable	year-round, offshore areas, central provinces, Vietnam EEZ	none documented	none documented	A/G	WCPFC	Vietnam provided, U.S. Trade Data, https://www.wcpfc.int/system/files/AR-CNM-36%20VIETNAM%20PART%201.pdf	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
tuna (skipjack), swordfish, mackerel	gillnet	973	not applicable	not applicable	year-round, offshore areas, north, central, and south regions, Vietnam EEZ	none documented	none documented	A/G	WCPFC	Vietnam provided, U.S. Trade Data, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc, https://www.wcpfc.int/system/files/AR-CNM-36%20VIETNAM%20PART%201.pdf	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
shrimp	single trawl	<20CV, 726; 20- <50, 3,593; 50- <90CV, 2,149; 90- <250CV, 2,615; 250- <400CV, 3,666; >400CV, 6,902	not applicable	not applicable	year-round, inshore areas, north, central, and south regions	none documented	none documented	A/G		U.S. Trade Data, FAO Fishery Country Profile - Viet Name, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
shrimp	pair trawl	<20CV, 726; 20- <50, 3,593; 50- <90CV, 2,149; 90- <250CV, 2,615; 250- <400CV, 3,666; >400CV, 6,902	not applicable	not applicable	year-round, inshore areas, north, central, and south regions	none documented	none documented	A/G		U.S. Trade Data, FAO Fishery Country Profile - Viet Name, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
tuna (other pelagic fishes)	gillnet	<20CV, 23,725; 20- <50, 5,583; 50- <90CV, 2,117; 90- <250CV,1,771; 250- <400CV, 1,550; >400CV, 1,749	not applicable	not applicable	year-round, coastal, inshore, and offshore areas, north, central, and south regions	none documented	none documented	A/G		Vietnam provided, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
tunas (small pelagics)	purse seine	<20CV, 174; 20- <50, 743; 50- <90CV, 358; 90- <250CV,1,075; 250- <400CV, 1,347; >400CV, 1,528	not applicable	not applicable	year-round, coastal, inshore, and offshore areas (purse seining is allowed by light operators in coastal areas), north, central, and south regions	none documented	none documented	A/G		Vietnam provided, Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
squid	pair trawl	<20CV, 726; 20- <50, 3,593; 50- <90CV, 2,149; 90- <250CV, 2,615; 250- <400CV, 3,666; >400CV, 6,902	not applicable	not applicable	year-round, offshore areas	none documented	none documented	A/G		Management of Coastal Fisheries in Vietnam by Dao Manh Son and Pham Thuoc	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014

Export Fisheries with No Information

Target Species or Product	Fishery/Gear Type	Number of Vessels	Company (if aquaculture or processor)	Source of Product (for processing)	Area of Operation	Marine Mammal Interactions (by group or species)	Marine Mammal Bycatch Estimates	Rationale for Classification ** (Presence of mortality or injury (P/A), Co-Occurrence (C/O), Analogous Gear (A/G), No Information (N/I))	RFMO or Legal Protection Measures	References	Detailed Information
none provided	other gear types (logistic vessels)	2,331	not applicable	not applicable	year-round, coastal, inshore, and offshore areas	none documented	none documented	N/I		Vietnam provided	Information on Marine Mammal Interactions and Marine Mammal Bycatch Estimates are based on observer data and landing site data collection from 2014
orange roughy	none provided	none provided	none provided	none provided	none provided	none provided	none provided	N/I		U.S. Trade	

Western Samoa

Exempt Fisheries

Tuna, albacore, bigeye, yellowfin	Troll	42	Not applicable	Not applicable	Samoa's EEZ	None documented	None documented	A/G	WCPFC	National reports	Prohibited to harass or intentional kill a marine mammal, Analogous fishery is Guam tuna troll = Category III
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Export Fisheries

Tuna, albacore, bigeye, yellowfin, wahoo, swordfish, dolphin fish	Longline	58 Samoa, 10 foreign fishing licenses (8-vanuatu, 1 cook island, 1 Kiribati)	Not applicable	Not applicable	Samoa's EEZ	None documented	None documented	C/O,A/G	WCPFC	National reports	Depredation reported in logbooks, prohibited to harass or intentional kill a marine mammal
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