

APPENDIX I. Estimated serious injury and mortality (SI&M) of Western North Atlantic marine mammals listed by U.S. observed fisheries for 2001-2005.

Marine mammal species with zero (0) observed SI&M during 2001 to 2005 are not shown in

(tbd = to be determined; n/a = not available; unk = unknown;JV = Joint Venture; TALFF = Total Allowable Level this table. of Foreign Fishing).

Category, Fishery (estimated # of vessels/persons), Species	Yrs. observed	% observer coverage	Est. SI by Year (CV)	Est. Mortality by Year (CV)	Mean Annual Mortality (CV)	PBR
CATEGORY I						
Gillnet Fisheries: Northeast gillnet (unk)						
Harbor porpoise - after Take Reduction Plan	2001-2005	.04, .02, .03, .06, .07		53(.97), 444 (.37), 592 (.33), 654(.36), 630(.23)	475 (.16)	610
White sided dolphin	2001-2005	.04, .02, .03, .06, .07		26 (1.0), 30 (.74), 31 (.93), 7(.98), 59(.49)	31 (.35)	509
Common dolphin	2001-2005	.04, .02, .03, .06, .07		0, 0, 0, 0, 26	5 (.8)	1,000
Risso's dolphin	2001-2005	.04, .02, .03, .06, .07		0, 0, 0, 0, 15 (.93)	3(.93)	129
Bottlenose dolphin (offshore)	2001-2005	.04, .02, .03, .06, .07		0, 0, 0, unk, unk	unk	566
Harbor seal	2001-2005	.04, .02, .03, .06, .07		1,471 (.38), 787 (.32), 542 (.28), 792(.34), 719(.20)	862(.16)	2,746
Gray seal	2001-2005	.04, .02, .03, .06, .07		117(.59), 0(0), 242 (.47), 504(.34), 574(.44)	287(.23)	n/a
Harp seal	2001-2005	.04, .02, .03, .06, .07		26(1.04), 0, 0, 303(.30), 35(.68)	73 (.27)	n/a
Hooded seal	2001-2005	.04, .02, .03, .06, .07		82(1.14), 0, 0, 43(.95), 0	25(.82)	n/a
Gillnet Fisheries:US Mid-Atlantic gillnet (unk)						
Harbor porpoise - after Take Reduction Plan	2001-2005	.02, .01, .01, .02, .03		26 (.95), unk, 76 (1.13), 137(.91), 470(.23)	177(.40)	610
Bottlenose dolphin (offshore)	2001-2005	.02, .01, .01, .02, .03		unk, 0, 0, unk, unk	unk	566
^f Bottlenose dolphin Southern NC	2001-2005	.02, <.01, 0, 0, 0	0, 0, unk, unk, unk	0, 0, unk, unk, unk	unk	7.9
^f Bottlenose dolphin Northern NC	2001-2005	.02, <.01, .01, .02, .01	0, 0, 0, 0, 0	8(1.06), 8(1.06), 8(1.06), 7(.82), 12(.82)	9(.41)	20
^f Bottlenose dolphin Northern migratory	2001-2005	.02, .01, .03, .03, .05	0, 0, 0, 0, 0	11(.35), 11(.35), 17(.35), 14(.35), 20(.35)	15(.16)	73.1
^f Bottlenose dolphin NC mixed	2001-2005	.01, .01, .02, .03, .03	0, 0, 0, 0, 0	67(.45), 50(.45), 23(.40), 30(.40), 18(.40)	37(.22)	68
Harbor seal	2001-2005	.02, .01, .01, .02, .03		0, unk, 0, 15(.86), 63(.67)	20 (.57)	2,746
Gray seal	2000-2004	.02, .01, .01, .02, .03		0, unk, 0, 69(.92), 0	17 (.92)	n/a
Longline Fisheries: Pelagic longline (excluding NED-E)^a						
Risso's dolphin	2001-2005	.04, .05, .09, .09, .06	45(.7), 8(1.0), 40(.63), 28(.72), 3(1.0)	24(1.0), 20(.86), 0, 0, 0	34 (.32)	129
Long and short-finned pilot whale	2001-2005	.04, .05, .09, .09, .06	50(.58), 52(.48), 21(.49), 74(.42), 212(.21)	20 (1.0), 2 (1.0), 0, 0, 0	86 (.16)	249

Unidentified beaked whale	2001-2005	.04, .05, .09, .09, .06	0, 0, 5.3(1.0), 0, 0	0, 0, 0, 0, 0	1(1.0)	17
Longline Fisheries: Pelagic longline (NED-E area only)^c						
Northern Bottlenose Whale	2001-2003	1.0, 1.0, 1.0	1 (0), 0, 0	0, 0, 0	1(-)	unk
Risso's dolphin	2001-2003	1.0, 1.0, 1.0	4 (0), 3 (0), 0	0, 0, 1 (0)	3 (0)	129
Mid-Atlantic Mid-Water Trawl – Including Pair Trawl						
White-sided dolphin	2001-2005	0, .003, .018, .064, .084	0, 0, 0, 0, 0	unk, unk, 51(.46), 105(.38), 97(.76)	84(.34)	509
Long and short-finned pilot whale	2001-2005	0, .003, .018, .064, .084	0, 0, 0, 0, 0	unk, unk, 3.9(.46), 8.1(.38), 7.5(.76)	7(.34)	249
CATEGORY II						
Trawl Fisheries:Gulf of Maine/Georges Bank herring mid-water trawl - JV and TALFF^d						
Long and short-finned pilot whale (JV and TALFF)	2001	1.00 ^e		11 (n/a)	11 (n/a)	249
White-sided dolphin (TALFF)	2001	1.00		2 (0)	2 (0)	509
Trawl Fisheries:Northeast bottom trawl (unk)						
Harp seals	2001-2005	.01, .03, .04, .05, .12		49(1.10), 0, 0, 0, unk	unk	n/a
Harbor seals	2001-2005	.01, .03, .04, .05, .12		0, unk, 0, 0, unk	unk	2,746
Long and short-finned pilot whale ^g	2001-2005	.01, .03, .04, .05, .12	0, 0, 0, 0, 0	21(.27), 22(.26), 21(.26), 15.29(.50), 15(.30)	19 (0.12)	249
Common Dolphin ^g	2001-2005	.01, .03, .04, .05, .12	0, 0, 0, 0, 0	30(.30), 26(.29), 26(.29), 26(.29), 32(.28)	28 (.13)	1,000
White-sided dolphin ^g	2001-2005	.01, .03, .04, .05, .12		161(.34), 170(.32), 216(.27), 200(.30), 213(.28)	192 (0.13)	509
Minke whale	2001-2005	.01, .03, .04, .05, .12		unk	unk	19
Harbor Porpoise	2001-2005	.01, .03, .04, .05, .12		0, 0, unk, 0, unk	unk	610
Mid-Atlantic Bottom Trawl						
White-sided dolphin ^g	2001-2005	.01, .01, .01, .03, .03		27(.19), 25(.17), 31(.25), 26(.20), 38(.29)	29 (.11)	509
Long and short-finned pilot whale ^g	2001-2005	.01, .01, .01, .03, .03	0, 0, 0, 0, 0	39(.31), 38(.36), 31(.31), 35(.33), 31(.31)	38(.15)	249
Common Dolphin	2001-2005	.01, .01, .01, .03, .03	0, 0, 0, 0, 0	103(.27), 87(.27), 99(.28), 159(.30), 141(.29)	118 (.13)	1,000
Northeast Mid-Water Trawl Including Pair Trawl						
Long and short-finned pilot whale	2001-2005	.001, 0, .031, .126, .199	0, 0, 0, 0, 0	unk, unk, 1.9(.56), 1.4(.58), 1.1(.68)	1(.35)	249
White-sided dolphin	2001-2005	.001, 0, .031, .126, .199	0, 0, 0, 0, 0	unk, unk, 24(.56), 19(.58), 15(.58)	19(.35)	509
Gillnet Fisheries:SE U.S. Atlantic shark gillnet (12)						
Bottlenose dolphin (coastal)	2001-2005	C. Florida .42, .25, .09, .19, .26		4(0), 7(1.0), 13(.81), 0, 0	5(.53)	n/a

NOTES: The estimated number of vessels/participants is expressed in terms of the number of active participants in the fishery, when possible. If this information is not available, the estimated number of vessels or persons licensed for a particular fishery is provided. Beginning with the 2001 Stock Assessment Report, Canadian records were incorporated into the mortality and serious injury rates to

reflect the effective range of this stock.

- a. An experimental program to test effects of gear characteristics, environmental factors, and fishing practices on marine turtle bycatch rates in the Northeast Distant (NED-E) water component of the fishery was conducted from June 1, 2001 - December 31, 2003. Observer coverage was 100% during this experimental fishery. Summaries are provided for the pelagic longline EXCLUDING the NED-E area in one row and for ONLY the NED in the second row (Garrison, 2003; Garrison and Richard, 2004).
- b. During joint venture fishing operations, nets that are transferred from the domestic vessel to the foreign vessels for processing are observed on board the foreign vessel. There may be nets fished by domestic vessels that do not get transferred to a foreign vessel for processing and therefore would not be observed. During TALFF fishing operations all nets fished by the foreign vessel are observed.
- c. Ten vessels (3 foreign, 7 American) participated in the 2001 joint venture (JV) fishing operations and 2 of the foreign vessels participated in the 2001 Total Allowable Level of Foreign Fishing (TALFF) operations. Nets that are transferred from domestic to foreign vessels (JV) for processing are observed on board the foreign vessel. There may be nets fished by domestic vessels that do not get transferred to the foreign vessels and would therefore not be observed. During TALFF fishing operations, all the nets fished by a foreign fishing vessel are observed.
- d. Coastal Bottlenose Dolphins -These are “management units” of the coastal morphotype of bottlenose dolphin along the U.S. Atlantic coast. Annual estimated mortality/serious injury and PBR are by management unit.
- e. A new method was used to develop preliminary estimates of mortality for the Mid-Atlantic and Northeast trawl fisheries for pilot whales, common dolphin and white-sided dolphin during 2000-2005. They are a product of bycatch rates predicted by covariates in a model framework and effort reported by commercial fishermen on mandatory vessel logbooks. This method differs from the previous method used to estimate mortality in these fisheries prior to 2000. Therefore, the estimates reported prior to 2000 can not be compared to estimates during 2000-2005.