

APPENDIX I. Estimated serious injury and mortality (SI&M) of Western North Atlantic marine mammals listed by U.S. observed fisheries for 2004-2008. Marine mammal species with zero (0) observed SI&M during 2004 to 2008 are not shown in this table. (tbd = to be determined; n/a = not available; unk = unknown; JV = Joint Venture).

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	2004-2008	.06, .07, .04, .07, .05		654(.36), 630(.23), 514(.31), 395(.38), 666 (.48)	572 (0.17)	703
Atlantic white sided dolphin	2004-2008	.06, .07, .04, .07, .05		7(.98), 59(.49), 41(.71), 0, 81(.57)	38(.33)	509
Short-beaked common dolphin	2004-2008	.06, .07, .04, .07, .05		0, 26(.8), 20(1.05), 11(0.94), 34(.77)	18 (.45)	1,000
Risso's dolphin	2004-2008	.06, .07, .04, .07, .05		0, 15 (.93), 0, 0, 0	3(.93)	129
Bottlenose dolphin (offshore)	2002-2006	.02, .03, .06, .07, .04		0, 0, 0, unk, unk	unk	566
Harbor seal	2004-2008	.06, .07, .04, .07, .05		792(.34), 719(.20), 87(.58), 93 (.49), 243(.41)	387(.17)	undetermined
Gray seal	2004-2008	.06, .07, .04, .07, .05		504(.34), 574(.44), 248(.47), 889(0.24), 618(.23)	567 (0.15)	n/a
Harp seal	2004-2008	.06, .07, .04, .07, .05		303(.30), 35(.68), 65(.66), 119(.35), 238(.38)	152(0.19)	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	2004-2008	.02, .03, .04, .06, .03		137(.91), 470(.51), 511(.32), 58(1.03), 350(.75)	305(.27)	703
Bottlenose dolphin (offshore)	2002-2006	.01, .01, .02, .03, .04		unk, 0, 0, unk, unk	unk	566
Short-beaked common dolphin	2004-2008	.02, .03, .04, .06, .03		0, 0, 11(1.05), 0, 0	2(1.03)	1,000
Risso's dolphin	2004-2008	.02, .03, .04, .06, .03		0, 0, 0, 34(.73), 0	7(.73)	124
Harbor seal	2004-2008	.02, .03, .04, .06, .03		15(.86), 63(.67), 26 (.98), 0, 88(.74)	38 (.43)	undetermined
Harp Seal	2004-2008	.02, .03, .04, .06, .03		0, 0, 0, 38(.9), 176(.74)	43 (0.63)	n/a
Gray seal	2004-2008	.02, .03, .04, .06, .03		69(.92), 0, 0, 0, 0	14 (0.92)	n/a
Longline Fisheries: Pelagic longline (excluding NED-E)^a						

Risso's dolphin	2004-2008	.09, .06, .07, .08, .14	28(.72), 3(1.0), 0, 9 (.65), 17(.73)	0, 0, 0, 0, 0	11 (.43)	124
Long and short-finned pilot whale	2004-2008	.09, .06, .07, .08, .14	74(.42), 212(.21), 169(.50), 57(.65), 98(.42)	0, 0, 16 (1.0), 0, 0	122 (.19)	172/93 ^c
CATEGORY II						
Mid-Atlantic Mid-Water Trawl – Including Pair Trawl (26)						
Risso's dolphin	2004-2008	.064, .084, .089, .039, .13	0, 0, 0, 0, 0	0, 0, 0, 0, unk	unk	124
White-sided dolphin	2004-2008	.064, .084, .089, .039, .13	0, 0, 0, 0, 0	22(.99), 58(1.02), 29(.74), 12(.98), 15(.73)	27(.50)	509
Short-beaked common dolphin	2004-2008	.064, .084, .089, .039, .13	0, 0, 0, 0, 0	0, 0, 0, 3.2(.70), 0	1 (.70)	1,000
Long and short-finned pilot whale	2004-2008	.064, .084, .089, .039, .13	0, 0, 0, 0, 0	0, 0, 0, 12 (.99), 0	2.4(.99)	172/93 ^c
Trawl Fisheries:Northeast bottom trawl (unk)						
Harp seal	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	0, unk, 0, 0, 0	unk	n/a
Harbor seal	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	0, unk, 0, unk, 0	unk	unde t.
Gray Seal	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	0, unk, 0, unk, unk	unk	n/a
Long and short-finned pilot whale ^b	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	15(.29), 15(.30), 14(.28), 12 (.35), 10(.34)	13(0.12)	172/93 ^c
Short-beaked common dolphin ^b	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	26(.29), 32(.28), 25(.28), 24(.28), 17(.29)	25 (.13)	1,000
Atlantic white-sided dolphin ^b	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	200(.30), 213(.28), 164(.34), 147(.35), 147(.32)	174 (0.12)	509
Minke whale	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	0, 1, 0, 0, 2	0.6	69
Harbor porpoise	2004-2008	.05, .12, .06, .06, .08	0, 0, 0, 0, 0	0, unk, unk, 0, unk	unk	703
Mid-Atlantic Bottom Trawl						
Atlantic white-sided dolphin ^b	2004-2008	.03, .03, .02, .03, .03	0, 0, 0, 0, 0	26(.20), 38(.29), 26(.25), 21(.24), 16(.18)	25 (.10)	509
Long and short-finned pilot whale ^b	2004-2008	.03, .03, .02, .03, .03	0, 0, 0, 0, 0	35(.33), 31(.31), 37(.34), 36(.38), 24(.36)	34(.15)	172/93 ^c
Short-beaked common dolphin	2004-2008	.03, .03, .02, .03, .03	0, 0, 0, 0, 0	159(.30), 141(.29), 131(.28), 66(.27), 108(.28)	121 (.13)	1,000
Northeast Mid-Water Trawl Including Pair Trawl (17)						
Long and short-finned pilot whale	2004-2008	.126, .199, .031, .08, .20	0, 0, 0, 0, 0	53(.92), 0, 0, 0, 16(.61)	4.3(.51)	172/93 ^c
White-sided dolphin	2004-2008	.126, .199, .031, .08, .20	0, 0, 0, 0, 0	0, 0, 9.4(1.03), 0, 0	1.9(1.03)	509

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. A new method was used to develop preliminary estimates of mortality for the Mid-Atlantic and Northeast trawl fisheries for pilot whales, common dolphins and white-sided dolphins during 2000-2007. 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 2000-2007.
- c. As of 2010, the PBR for pilot whales has been split. Short-finned pilot whale PBR is 172 and long-finned pilot whale is 93.