

**APPENDIX I.** Estimated serious injury and mortality (SI&M) of Western North Atlantic marine mammals listed by U.S. observed fisheries for 2003-2007. Marine mammal species with zero (0) observed SI&M during 2003 to 2007 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
<b>CATEGORY I</b>						
<b>Gillnet Fisheries: Northeast gillnet (unk)</b>						
Harbor porpoise - after Take Reduction Plan	2003-2007	.03, .06, .07, .04, .07		592 (.33), 654(.36), 630(.23), 514(.31), 395(.37)	557 (0.14)	610
Atlantic white sided dolphin	2003-2007	.03, .06, .07, .04, .07		31 (.93), 7(.98), 59(.49), 41(.71), 0	35(.37)	509
Short-beaked common dolphin	2003-2007	.03, .06, .07, .04, .07		0, 0, 26(.8), 20(1.05), 11(1.08)	11 (.54)	1,000
Risso's dolphin	2003-2007	.03, .06, .07, .04, .07		0, 0, 15 (.93), 0, 0	3(.93)	124
Bottlenose dolphin (offshore)	2002-2006	.02, .03, .06, .07, .04		0, 0, 0, unk, unk	unk	566
Harbor seal	2003-2007	.03, .06, .07, .04, .07		542 (.28), 792(.34), 719(.20), 87(.58), 92 (.48)	446(.15)	2,746
Gray seal	2003-2007	.03, .06, .07, .04, .07		242 (.47), 504(.34), 574(.44), 248(.47), 886(0.24)	490(0.16)	n/a
Harp seal	2003-2007	.03, .06, .07, .04, .07		0, 303(.30), 35(.68), 65(.66), 119(.35)	104(0.21)	n/a
Hooded seal	2001-2005	.04, .02, .03, .06, .07		82(1.14), 0, 0, 43(.95), 0	25(.82)	n/a
<b>Gillnet Fisheries:US Mid-Atlantic gillnet (unk)</b>						
Harbor porpoise - after Take Reduction Plan	2003-2007	.01, .02, .03, .04, .04		76 (1.13), 137(.91), 470(.23), 511(.52), 58(1.03)	250(0.26)	610
Bottlenose dolphin (offshore)	2002-2006	.01, .01, .02, .03, .04		unk, 0, 0, unk, unk	unk	566
Short-beaked common dolphin	2003-2007	.01, .02, .03, .04, .04		0, 0, 0, 11, 0	2(1.03)	1,000
Harbor seal	2003-2007	.01, .02, .03, .04, .04		0, 15(.86), 63(.67), 26 (.98), 0	21 (.49)	2,746
Gray seal	2003-2007	.01, .02, .03, .04, .04		0, 69(.92), 0, 0, 0	13 (.92)	n/a
<b>Longline Fisheries: Pelagic longline (excluding NED-E)<sup>a</sup></b>						
Risso's dolphin	2003-2007	.09, .09, .06, .07, .08	40(.63), 28(.72), 3(1.0), 0, 9 (.65)	0, 0, 0, 0, 0	16 (.41)	124
Long and short-finned pilot whale	2003-2007	.09, .09, .06, .07, .08	21(.49), 74(.42), 212(.21), 169(.50),	0, 0, 0, 16 (1.0), 0	110 (.50)	249

			57(.65)			
Unidentified beaked whale	2003-2007	.09, .09, .06, .07, .08	5.3(1.0), 0, 0, 0, 0	0, 0, 0, 0, 0	1(1.0)	17
<b>Longline Fisheries: Pelagic longline (NED-E area only)<sup>a</sup></b>						
Risso's dolphin	2003	1.0	0	1 (0)	1 (0)	124
<b>CATEGORY II</b>						
<b>Mid-Atlantic Mid-Water Trawl – Including Pair Trawl</b>						
White-sided dolphin	2003-2007	.018, .064, .084, .089, .039	0, 0, 0, 0, 0	51(.46), 105(.38), 97(.76), 54(.57), 3.2 (.70)	62(.21)	509
Short-beaked common dolphin	2003-2007	.018, .064, .084, .089, .039	0, 0, 0, 0, 0	0, 0, 0, 0, 3.2(.70)	1 (.70)	1,00 0
Long and short-finned pilot whale	2003-2007	.018, .064, .084, .089, .039	0, 0, 0, 0, 0	3.9(.46), 8.1(.38), 7.5(.76), 0, 4.9 (.70)	5(.31)	249
<b>Trawl Fisheries:Northeast bottom trawl (unk)</b>						
Harp seal	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	0, 0, unk, 0, 0	unk	n/a
Harbor seal	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	0, 0, unk, 0, unk	unk	2,74 6
Gray Seal	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	0, 0, unk, 0, unk	unk	n/a
Long and short-finned pilot whale <sup>b</sup>	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	20(.26), 15(.29) 15(.30), 14(.28), 12 (.35)	15(0.13)	249
Short-beaked common dolphin <sup>b</sup>	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	26(.29), 26(.29), 32(.28), 25(.28), 24(.28)	27 (.12)	1,00 0
Atlantic white-sided dolphin <sup>b</sup>	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	216(.27), 200(.30), 213(.28), 164(.35), 147(.35)	188 (0.12)	509
Minke whale	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	unk	unk	19
Harbor porpoise	2003-2007	.04, .05, .12, .06, .06	0, 0, 0, 0, 0	unk, 0, unk, unk, 0	unk	610
<b>Mid-Atlantic Bottom Trawl</b>						
Atlantic white-sided dolphin <sup>b</sup>	2003-2007	.01, .03, .03, .02, .03	0, 0, 0, 0, 0	31(.25), 26(.20), 38(.29), 26(.25), 21(.24)	28 (.11)	509
Long and short-finned pilot whale <sup>b</sup>	2003-2007	.01, .03, .03, .02, .03	0, 0, 0, 0, 0	31(.31), 35(.33), 31(.31), 37(.34), 36(.38)	34(.15)	249
Short-beaked common dolphin	2003-2007	.01, .03, .03, .02, .03	0, 0, 0, 0, 0	99(.28), 159(.30), 141(.29), 131(.28), 66(.27)	119 (.12)	1,00 0
<b>Northeast Mid-Water Trawl Including Pair Trawl (25)</b>						
Long and short-finned pilot whale	2003-2007	.031, .126, .199, .031, .08	0, 0, 0, 0, 0	1.9(.56), 1.4(.58), 1.1(.68), 0, 0	1(.35)	249
White-sided dolphin	2003-2007	.031, .126, .199, .031, .08	0, 0, 0, 0, 0	24(.56), 19(.58), 15(.31), 19(.44), 0	15(.26)	509
<b>Gillnet Fisheries:SE U.S. Atlantic shark gillnet (12)</b>						

Bottlenose dolphin (Central Florida, coastal)	2002-2006	1, .34, .43, 1, 1	0, 0, 0, 0, 0,	1(0), 2(.64), 1(.64), 0, 0	0.8(.36)	n/a
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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.