

**APPENDIX I.** Estimated serious injury and mortality (SI&M) of Western North Atlantic marine mammals listed by U.S. observed fisheries for 2000-2004. Marine mammal species with zero (0) observed SI&M during 2000 to 2004 are not shown in this table.

(tbd = to be determined; n/a = not available; JV = Joint Venture; TALFF = Total Allowable Level of Foreign Fishing; SNE = Southern New England).

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 sink gillnet (341)</b>						
Harbor porpoise - after Take Reduction Plan	2000-2004	.06, .04, .02, .03, .06		507 (.37), 53(.97), 444 (.37), 592 (.33), 654(.36)	450 (.18)	747
White sided dolphin	2000-2004	.06, .04, .02, .03, .06		69 (.70), 26 (1.0), 26 (1.0), 30 (.74), 31 (.93), 14(.69)	24 (.43)	379
Common dolphin	2000-2004	.06, .04, .02, .03, .06		146 (.97), 0, 0, 0, 0	29 (.97)	1,000
Risso's dolphin	2000-2004	.06, .04, .02, .03, .06		15(1.06), 0, 0, 0, 0	3(1.06)	124
Bottlenose dolphin (offshore)	1998-2002	.05, .06, .06, .04, .02		0, 0,132 (1.16), 0, 0	26 (1.16)	714
Harbor seal	2000-2004	.06, .04, .02, .03, .06		917(.43), 1,471 (.38), 787 (.32), 542 (.28), 792(.34)	902 (.18)	5,493
Gray seal	2000-2004	.06, .04, .02, .03, .06		193(.55), 117(.59), 0(0), 242 (.47), 504(.34)	211 (.23)	n/a
Harp seal	2000-2004	.06, .04, .02, .03, .06		24(1.57), 26(1.04), 0, 0, 303(.30)	71 (.29)	n/a
Hooded seal	2000-2004	.06, .04, .02, .03, .06		0, 82(1.14), 0, 0, 43(.95)	25(.82)	n/a
<b>Gillnet Fisheries:US Mid-Atlantic gillnet (&lt;655)</b>						
Harbor porpoise - after Take Reduction Plan	2000-2004	.02, .02, .01, .01, .02		21 (.76), 26 (.95), unk, 76 (1.13), 137(.91)	65 (.49)	747
Bottlenose dolphin (offshore)	1998-2002	.05, .02, .02, .02, .01		4 (.70), 0, 0, n/a, n/a	1 (.70)	714
<sup>f</sup> Bottlenose dolphin Southern NC	1998-2002	.01, .03, .03, .02, <.01		0, 0, 0, 0, 0	0	9.9
<sup>f</sup> Bottlenose dolphin Northern NC	1998-2002	.01, .03, .03, .02, <.01		17(.61), 13(.61), 26(.61), 8(1.06), 8(1.06)	14(.33)	20
<sup>f</sup> Bottlenose dolphin Northern migratory	1998-2002	.02, .03, .03, .02, .01		37(.48), 19(.48), 30(.48), 11(.35), 11(.35)	22(.23)	146
<sup>f</sup> Bottlenose dolphin NC mixed	1998-2002	.02, .02, .02, .01, .01		175(.46), 196(.46), 146(.46), 67(.45), 50(.45)	127(.23)	68
Harbor seal	2000-2004	.02, .02, .01, .01, .02		0, 0, unk, 0, 15(.86)	4 (.86)	5,493
Gray seal	2000-2004	.02, .02, .01, .01, .02		0, 0, unk, 0, 69(.92)	17 (.92)	n/a

<b>Longline Fisheries: Pelagic longline (excluding NED-E)<sup>a</sup></b>						
Risso's dolphin	2000-2004	.04, .04, .05, .09, .09	23(1.0), 45(.7), 8(1.0), 40(.63), 28(tbd)	41 (1.0), 24(1.0), 20(.86), 0, 0	46 (.37)	124
Long and short-finned pilot whale	2000-2004	.04, .04, .05, .09, .09	109(1.0), 50(.58), 52(.48), 21(.49), 74(.42)	24 (1.0), 20 (1.0), 2 (1.0), 0, 0	70 (.37)	249
Pygmy sperm whale <sup>b</sup>	1999-2003	.04, .04, .02, .04, .02	0, 28(1.0), 0, 0, 0	0, 0, 0, 0, 0	6(1.0)	3.7
<b>Longline Fisheries: Pelagic longline (NED-E area only)<sup>c</sup></b>						
Risso's dolphin	2001-2003	1.0, 1.0, 1.0	4 (0), 3 (0), 0	0, 0, 1 (0)	3 (0)	124
<b>Mid-Atlantic Mid-Water Trawl – Including Pair Trawl (Herring and Mackerel only)</b>						
White-sided dolphin	2000-2004	.08, 0, .008, .04, .12		0, 0, 9.4(.55), 73(.55), 31(.55)	23(.39)	364
<b>CATEGORY II</b>						
<b>Trawl Fisheries:Gulf of Maine/Georges Bank herring mid-water trawl - JV and TALFF<sup>d</sup></b>						
Long and short-finned pilot whale (JV and TALFF)	2001	1.00 <sup>e</sup>		11 (n/a)	11 (n/a)	249
White-sided dolphin (TALFF)	2001	1.00		2 (0)	2 (0)	379
<b>Trawl Fisheries:Northeast bottom trawl <sup>e</sup>(tbd)</b>						
Harp seals	2000-2004	.01, .01, .03, .04, .05		0, 49(1.10), 0, 0, 0	10 (1.10)	n/a
Harbor seals	2000-2004	.01, .01, .03, .04, .05		0, 0, unk, 0, 0	unk	5,493
Long and short-finned pilot whale	2000-2004	.01, .01, .03, .04, .05	0, 0, 0, 0, 0	unk	unk	249
White-sided dolphin	2000-2004	.01, .01, .03, .04, .05		unk	unk	379
Minke whale	2000-2004	.01, .01, .03, .04, .05		unk	unk	26
<b>Mid-Atlantic Bottom Trawl<sup>e</sup></b>						
White-sided dolphin	2000-2004	.01, .01, .01, .01, .03		unk	unk	unk
Long and short-finned pilot whale	2000-2004	.01, .01, .01, .01, .03	2, 0, 0, 0, 0	unk	unk	249
<b>Northeast Mid-Water Trawl Including Pair Trawl (Herring and Mackerel only)</b>						
Long and short-finned pilot whale	2000-2004	.005, .001, 0, .03, .14	0, 0, 0, 0, 0	4.6(.74), 11(.74), 8.9(.74), 14(.74), 5.8(.74)	8.9(.35)	249
White-sided dolphin	2000-2004	.005, .001, 0, .03, .14		4.5(.74), 8.9(.74), 14(.44), 2.0(.74), 0.5(.5)	6.0(.33)	379
<b>Gillnet Fisheries:SE U.S. Atlantic shark gillnet (12)</b>						
Bottlenose dolphin (coastal)	2000-2004	C. Florida.15, .42, .25, .09, .19		2(1.0), 4(0), 7(1.0), 13(.81), 0	5(.49)	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. 2000 mortality estimates were taken from Table 10 in Yeung (2001).
- b. Pygmy Sperm Whales - Twenty-eight seriously injured pygmy sperm whales were reported in 2000 in the pelagic longline fishery. The 2000 mortality estimates were taken from Table 10 in Yeung 2001 (NMFS Miami Laboratory PRD 00/01-17). There have been no observed mortalities or serious injuries by NMFS Sea Samplers in the pelagic drift gillnet, pelagic longline, pelagic pair trawl, Northeast sink gillnet, mid-Atlantic gillnet, or Northeast bottom trawl fisheries.
- c. 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).
- d. 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.
- e. 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.
- f. 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.
- g. Mortality estimation attributed to the Northeast and mid-Atlantic bottom trawl fishery has not been generated.