

APPENDIX I. Estimated serious injury and mortality (SI&M) of Western North Atlantic marine mammals listed by U.S. observed fisheries for 1999-2003. Marine mammal species with zero (0) observed SI&M during 1999 to 2003 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 |
|--|---------------|-----------------------------|---|---|----------------------------|-------|
| CATEGORY I | | | | | | |
| Gillnet Fisheries: Northeast sink gillnet (341) | | | | | | |
| Harbor porpoise - after Take Reduction Plan | 1999-2003 | .06, .06, .04, .02, .03 | | 270(.28), 507(.37), 53(.97), 444(.37), 592(.33) | 373 (.18) | 747 |
| White sided dolphin | 1999-2003 | .06, .06, .04, .02, .03 | | 69(.70), 26(1.0), 26(1.0), 30(.74), 31(.93) | 36 (.39) | 364 |
| Common dolphin | 1999-2003 | .06, .06, .04, .02, .03 | | 146(.97), 0, 0, 0, 0 | 29 (.97) | 960 |
| Bottlenose dolphin (offshore) | 1999-2003 | .06, .06, .04, .02, .03 | | 0, 132 (1.16), 0, 0, 0 | 26 (1.16) | 566 |
| Risso's dolphin | 1999-2003 | .06, .06, .04, .02, .03 | | 0, 15(1.06), 0, 0, 0 | 3(1.06) | 124 |
| Harbor seal | 1999-2003 | .06, .06, .04, .02, .03 | | 1,446(.34), 917(.43), 1,471 (.38), 787 (.32), 542 (.28) | 1,032 (.17) | 5,493 |
| Gray seal | 1999-2003 | .06, .06, .04, .02, .03 | | 155(.51), 193(.55), 117(.59), 0(0), 242 (.47) | 141 (.26) | n/a |
| Harp seal | 1999-2003 | .06, .06, .04, .02, .03 | | 81(.78), 24(1.57), 26(1.04), 0, 0 | 26 (.60) | n/a |
| Hooded seal | 1999-2003 | .06, .06, .04, .02, .03 | | 0, 0, 82(1.14), 0, 0 | 16 (1.14) | n/a |
| Longline Fisheries: Pelagic longline (excluding NED-E)¹ | | | | | | |
| Risso's dolphin | 1999-2003 | .04, .04, .02, .04, .02 | 22(1.0), 23(1.0), 45(.7), 8(1.0), 40(.63) | 0, 41(1.0), 24(1.0), 20(.86), 0 | 45 (.38) | 124 |
| Long and short-finned pilot whale | 1999-2003 | .04, .04, .02, .04, .02 | 288(.74), 109(1.0), 50(.58), 52(.48), 21(.49) | 93 (1.0), 24 (1.0), 20 (1.0), 2 (1.0), 0 | 132 (.49) | 239 |
| Pygmy sperm whale ² | 1999-2003 | .04, .04, .02, .04, .02 | 0, 28(1.0), 0, 0, 0 | 0, 0, 0, 0, 0 | 6(1.0) | 3.7 |
| Longline Fisheries: Pelagic longline (NED-E area only)³ | | | | | | |
| Risso's dolphin | 2001-2003 | 1.0, 1.0, 1.0 | 4 (0), 3 (0), 0 | 0, 0, 1 (0) | 3 (0) | 124 |
| Trawl Fisheries:Squid, mackerel, butterfish (620) - SNE Mid-Atlantic Illex | | | | | | |
| Long and short-finned pilot whale | 1999-2003 | .028, .111, 0, 0, tbd | | 0, 34 (.65), unk, unk, 0 | 11 (.65) | 239 |
| Trawl Fisheries:Squid, mackerel, butterfish (620) - SNE Mid-Atlantic Loligo | | | | | | |
| Long and short-finned pilot whale | 1999-2003 | .009, .011, .012, .005, tbd | | 49 (.97), 0, 0, 0, 0 | 10 (.97) | 239 |
| Common dolphin | 1999-2003 | .009, .011, .012, .005, tbd | | 49 (.78), 273 (.57), 126 (1.09), 0, 0 | 90 (.97) | 960 |
| | | | | | | |

| CATEGORY II | | | | | | |
|---|-----------|--|--|--|------------------|-------|
| Trawl Fisheries:Gulf of Maine/Georges Bank herring mid-water trawl - JV and TALFF ⁴ | | | | | | |
| Long and short-finned pilot whale | 2001 | 1.0 ⁵ | | 11 (n/a) | 11 (n/a) | 239 |
| White-sided dolphin (TALFF) | 2001 | 1.0 | | 2 (0) | 2 (0) | 364 |
| Gillnet Fisheries:SE U.S. Atlantic shark gillnet (12) | | | | | | |
| Bottlenose dolphin (coastal) | 1999-2002 | N. Florida .29, .23, .07, .20 | | 0, 0, 0, 0 | 24 (.89) | 3.3 |
| | 1999-2002 | C. Florida .09, .15, .42, .25 | | 12(.78), 2(1.0), 4(0), 7(1.0) | 6(.89) | 74 |
| Gillnet Fisheries:US Mid-Atlantic coastal sink gillnet (<655) | | | | | | |
| Harbor porpoise - after Take Reduction Plan | 1999-2003 | .02, .02, .02, .01, .01 | | 53 (.49), 21 (.76), 26 (.95), unk, 76 (1.13) | 44 (.61) | 747 |
| Bottlenose dolphin (offshore) | 1999-2003 | .02, .02, .02, .01, .01 | | 0, 0, n/a, 0, 0 | n/a | 714 |
| ⁶ Bottlenose dolphin Southern NC | 1998-2002 | .01, .03, .03, .02, <.01 | | 0, 0, 0, 0, 0 | 0 | 9.9 |
| ⁶ Bottlenose dolphin Northern NC | 1998-2002 | <.01, .01, .03, .01, <.01 | | 17(.61), 13(.61), 26(.61), 8(1.06), 8(1.06) | 14(.33) | 20.3 |
| ⁶ Bottlenose dolphin Northern migratory | 1998-2002 | .02, .03, .03, .02, .01 | | 37(.48), 19(.48), 30(.48), 11(.35), 11(.35) | 22(.23) | 73.1 |
| ⁶ Bottlenose dolphin NC mixed | 1998-2002 | .02, .02, .02, .01, .01 | | 175(.46), 196(.46), 146(.46), 67(.45), 50(.45) | 127(.23) | 67.8 |
| | | | | | | |
| CATEGORY III | | | | | | |
| Trawl Fisheries:SNE Mid-Atlantic mixed groundfish trawl (>1000) | | | | | | |
| Long and short-finned pilot whale | 1999-2003 | .003, .003, .004, .005, tbd | | 228 (1.03), 0, 0, 0, 0 | 46 (1.03) | 239 |
| Trawl Fisheries:North Atlantic bottom trawl (1052) | | | | | | |
| Harp seals | 1999-2003 | .003, .004, .004, .021, tbd ⁷ | | 0, 0, 49(1.10), 0, 0 | 10 (1.10) | n/a |
| Harbor seals | 1999-2003 | .003, .004, .004, .021, tbd ⁷ | | 0, 0, 0, tbd ⁴ , 0 | tbd | 5,493 |
| White-sided dolphin | 1999-2003 | .003, .004, .004, .021, tbd ⁷ | | 0, 0, 0, tbd, tbd ⁷ | tbd ⁷ | 364 |

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. It is also important to stress that serious injury determinations are made based upon the best available information; these determinations may change with the availability of new information. Several factors must be considered: 1) a ship strike or entanglement may occur at some distance from the reported location; 2) the mortality or injury may involve multiple factors; for example, whales that have been both ship struck and entangled are not uncommon; 3) the actual vessel or gear type/source is often uncertain; and 4) in entanglements, several types of gear may be involved. For the purposes of this report, discussion is primarily limited to those records considered confirmed human-caused mortalities or serious injuries.

¹ 1999 mortality estimates were taken from Table 9 in Yeung *et al.* (NMFS Miami Laboratory PRD 99/00-13), and exclude the Gulf of Mexico. 2000 mortality estimates were taken from Table 10 in Yeung (2001).

² 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 multispecies sink gillnet, Mid-Atlantic coastal sink gillnet, nor North Atlantic bottom trawl fisheries.

- ³ 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).
- ⁴ 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.
- ⁵ 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.
- ⁶ 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. PBR reported for these stocks is 1/2 year PBR.
- ⁷ Mortality estimation attributed to the North Atlantic bottom trawl fishery is in progress.