

Addendum
to December 2014 Application

Table 3-4 - Estimated density (animals/km²) of marine mammals within the Northeast LME and offshore NEFSC fisheries research areas

Common Name	Scientific Name	Survey year	Density estimate	
			LME < 200 m	Offshore > 200 m
CETACEANS				
Northern right whale	<i>Eubalaena glacialis</i>	2012	0.0018	0
Humpback whale	<i>Megaptera novaeangliae</i>	2004, 2006	0.0009	0.0006
Fin whale	<i>Balaenoptera physalus</i>	2004	0.0036	0.0007
Sei whale	<i>Balaenoptera borealis</i>	2004	0.0027	0.00004
Minke whale	<i>Balaenoptera acutorostrata acutorostrata</i>	2006	0.0066	0
Blue whale	<i>Balaenoptera musculus</i>	2009	0	0.0026
Sperm whale	<i>Physeter macrocephalus</i>	2004	0.00001	0.0152
Dwarf sperm whale	<i>Kogia sima</i>	2004	0.00002	0.0020
Pygmy sperm whale	<i>Kogia breviceps</i>			
Killer Whale	<i>Orcinus orca</i>	unknown		
Pygmy killer whale	<i>Feresa attenuata</i>	unknown		
Northern bottlenose whale	<i>Hyperoodon ampullatus</i>	2004	0	0.0017
Cuvier's beaked whale	<i>Ziphius cavirostris</i>	2004	0.0021	0.0156
Mesoplodon beaked whales	<i>Mesoplodon spp.</i>			
Melon-headed whale	<i>Peponocephala electra</i>	unknown		
Risso's dolphin	<i>Grampus griseus</i>	2004	0.0022	0.0844
Long-finned pilot whale	<i>Globicephala melas melas</i>	2004	0.0345	0.0256
Short-finned pilot whale	<i>Globicephala macrorhynchus</i>			
Atlantic white-sided dolphin	<i>Lagenorhynchus acutus</i>	2006	0.0244	0
White-beaked dolphin	<i>Lagenorhynchus albirostris</i>	2006	0.0081	0
Short-beaked common dolphin	<i>Delphinus delphis delphinis</i>	2004	0.2115	0.1875
Atlantic spotted dolphin	<i>Stenella frontalis</i>	2004	0	0.0208
Pantropical spotted dolphin	<i>Stenella attenuata</i>	2011	0	0
Striped dolphin	<i>Stenella coeruleoalba</i>	2004	0	0.3028
Fraser's dolphin	<i>Lagenodelphis hosei</i>	unknown		
Rough toothed dolphin	<i>Steno bredanensis</i>	1998	0	0.0016
Clymene dolphin	<i>Stenella clymene</i>	unknown		
Spinner dolphin	<i>Stenella longirostris</i>	unknown		
Common bottlenose dolphin (offshore)	<i>Tursiops truncatus truncatus</i>	2004	0.0060	0.0526
Common bottlenose dolphin (coastal)	<i>Tursiops truncatus truncatus</i>	2002	0.1033	0
Harbor Porpoise	<i>Phocoena phocoena</i>	2006	0.0193	0

PINNIPEDS				
Harbor Seal	<i>Phoca vitulina concolor</i>	2012	0.3074 ¹	0
Gray Seal	<i>Halichoerus grypus</i>	unknown		
Harp Seal	<i>Pagophilus groenlandica</i>	unknown		
Hooded Seal	<i>Cystophora cristata</i>	unknown		

¹ Revision to harbor seal density estimate (0.8244) in the 2014 application.

Table 6-1 - Historical interactions with marine mammals during NEFSC surveys from 2004 to 2015 as recorded in NOAA’s Protected Species Incidental Take database.

Revision to table 6-1 to account for a gray seal take that occurred in April, 2015.

Survey Name	Protected Species Taken	Gear Type	Date (Time) Taken	# Killed	# Released Alive	Total Taken
2015						
NEFSC Standard Bottom Trawl Survey	Gray seal	Bottom trawl	02 April (10:37 am)	1	0	1
2010						
Maine Estuaries Diadromous Survey	Harbor seal	Fyke Net	25 October (3:10 pm)	1	0	1
2009						
Atlantic Herring Survey	Minke whale	Midwater trawl	11 October (11:17 pm)	0	1 ¹	1
NEFOP Observer Gillnet Training Trips	Harbor porpoise	Gillnet	4 May (10:24 am)	1	0	1
NEFOP Observer Gillnet Training Trips	Gray seal	Gillnet	4 May (7:39 am)	1	0	1
2008						
COASTSPAN	Common bottlenose dolphin (NSCES stock)	Gillnet	29 September (12:40 pm)	1	0	1
2007						
NEFSC Standard Bottom Trawl Survey	Short-beaked common dolphin (Western NA stock)	Bottom trawl	11 November (12:18 am)	1	0	1
2004						
Atlantic Herring Survey	Short-beaked common dolphin (Western NA stock)	Midwater trawl	8 October (5:22 am)	2	0	2
Total				7	1	8

¹ Classified as a “serious injury/mortality” event. See text in Chapter 5 for details.

Table 6-2 - The potential number of animals of each marine mammal species (all stocks have been combined) that could be taken by mortality and serious injury (M&SI) and non-serious Level A harassment over the five year authorization period.

		Potential Take (2015-2019)			
	Historical Interactions (2008-2015)	M&SI and Level A			
		Trawl	Fyke	Gillnet	Longline
CETACEANS					
Minke whale	trawl	5	0	0	0
Risso's dolphin		2	0	0	1
Long-finned pilot whale		2	0	0	0
Short-finned pilot whale		2	0	0	0
Atlantic white-sided dolphin		2	0	1	0
White-beaked dolphin		2	0	0	0
Short-beaked common dolphin	trawl	5	0	1	1
Atlantic spotted dolphin		2	0	0	0
Common Bottlenose Dolphin...					
Western North Atlantic offshore stock	gillnet	2	0	5	1
Coastal, Northern Migratory stock		2	0	5	1
Coastal, Southern Migratory stock	gillnet	2	0	5	1
Coastal, South Carolina & Georgia		0	0	0	0
Coastal, Northern Florida		0	0	0	0
Coastal, Central Florida		0	0	0	0
Northern Northern Carolina Estuarine System		0	0	0	0
Southern Northern Carolina Estuarine System		0	0	0	0
Northern South Carolina Estuarine System		0	0	0	0
Charleston Estuarine System	gillnet	0	0	0	0
Northern Georgia/Southern South Carolina Estuarine System		0	0	0	0
Southern Georgia Estuarine System		0	0	0	0
Jacksonville Estuarine System		0	0	0	0
Indian River Lagoon estuarine System		0	0	0	0
Harbor porpoise	gillnet	2	0	5	0
Undetermined delphinid		1	0	1	1
PINNIPEDS					
Harbor seal	fyke net	1	5	5	0
Gray seal	Gillnet, trawl	5	1	5	0
Undetermined pinniped		0	1	1	1
Total		37	7	34	9

Table 7-1- Stocks for which NEFSC is requesting trawl, gillnet/fyke net and longline annual take, and evaluation of impact relative to PBR.

	Average Annual NEFSC Take Request for all Gears^{1,2,3} (2015-2019)	PBR⁴	% PBR Requested
Minke whale	1	162	0.6
Risso's dolphin	1	126	0.8
Atlantic white-sided dolphin	1	304	0.3
White-beaked dolphin	1	10	10.0
Short-beaked common dolphin	2	1,125	0.01
Atlantic spotted dolphin	1	316	0.3
Common bottlenose dolphin	2	See Table 7-2	See Table 7-2
Harbor porpoise	2	706	0.3
Harbor seal	3	1,469	0.2
Gray seal	2	undetermined	NA

¹ The summed take requests for the five year authorization period in Table 6-2 were divided by 5 and rounded up to the nearest whole number to obtain the average annual values in this column.

² NEFSC requested 3 unidentified delphinid species and 3 unidentified pinniped species in all gear over the five year authorization period; these additional takes (0.6 takes each per year) have NOT been included in this table.

³ The NEFSC request is for Level A and serious injury/ mortality takes. For purposes of evaluating impact of this request, all takes are assumed to result in serious injury/mortality.

⁴ Waring *et al.* (2014).

Table 7-2 - Evaluation of impact relative to PBR for all requested stocks of common bottlenose dolphin under a “worst case” assumption.

Stock of Common Bottlenose Dolphin	PBR¹	% PBR if Two Takes Per Year Were from a Single Stock
Western North Atlantic Offshore	561	0.4
Coastal, Northern Migratory	86	2.3
Coastal, Southern Migratory	63	3.2

¹ Waring *et al.* (2014).