

Appendix IV
Surveys and Abundance
Estimates

APPENDIX IV: Table A. Surveys									
Survey Number	Year	Season	Platform	Track line length (km)	Area	Agency/ Program	Analysis	Corrected for g(0)	Reference
1	1982	year-round	plane (AT-11; 1978-1982)	211,585	Cape Hatteras, NC to Nova Scotia, continental shelf and shelf edge waters	CETAP	Line transect analyses of distance data	N	(CETAP 1982)
2	1990	Aug	ship (Chapman)	2,067	Cape Hatteras, NC to Southern New England, North wall of the Gulf Stream	NEC	One team data analyzed by DISTANCE.	N	(NMFS 1990)
3	1991	Jul–Aug	ship (Abel-J)	1,962	Gulf of Maine, lower Bay of Fundy, southern Scotian Shelf	NEC	Two independent team data analyzed with modified direct duplicate method.	Y	(Palka 1995)
4	1991	Aug	boat (Sneak Attack)	640	inshore bays of Maine	NEC	One team data analyzed by DISTANCE.	Y	(Palka 1995)
5	1991	Aug–Sep	plane 1(AT-11)	9,663	Cape Hatteras, NC to Nova Scotia, continental shelf and shelf edge waters	NEC/SEC	One team data analyzed by DISTANCE.	N	(NMFS 1991)
6	1991	Aug–Sep	plane 2 (Twin Otter)		Cape Hatteras, NC to Nova Scotia, continental shelf and shelf edge waters	NEC/SEC	One team data analyzed by DISTANCE.	N	(NMFS 1991)
7	1991	Jun–Jul	ship (Chapman)	4,032	Cape Hatteras to Georges Bank, between 200 and 2,000m isobaths	NEC	One team data analyzed by DISTANCE.	N	(Waring <i>et al.</i> 1992; Waring 1998)
8	1992	Jul–Sep	ship (Abel-J)	3,710	N. Gulf of Maine and lower Bay of Fundy	NEC	Two independent team data analyzed with modified direct duplicate method.	Y	(Smith <i>et al.</i> 1993)

9	1993	Jun-Jul	ship (Delaware II)	1,874	S. edge of Georges Bank, across the Northeast Channel, to the SE. edge of the Scotian Shelf	NEC	One team data analyzed by DISTANCE.		(NMFS 1993)
10	1994	Aug-Sep	ship (Relentless)	534	shelf edge and slope waters of Georges Bank	NEC	One team data analyzed by DISTANCE.	N	(NMFS 1994)
11	1995	Aug-Sep	plane (Skymaster)	8,427	Gulf of St. Lawrence	DFO	One team data analyzed using quenouille's jackknife bias reduction procedure that modeled the left truncated sighting curve	N	(Kingsley and Reeves 1998)
12	1995	Jul-Sep	2 ships (Abel-J and Pelican) and plane (Twin Otter)	32,600	Virginia to the mouth of the Gulf of St. Lawrence	NEC	Ship: two independent team data analyzed with modified direct duplicate method. Plane: one team data analyzed by DISTANCE.	Ship: Y. Plane: Y (only harbor porpoise) N (rest of species)	(Palka 1996)
13	1996	Jul-Aug	plane	3,993	Northern Gulf of St. Lawrence	DFO	Quenouille's jackknife bias reduction procedure on line transect methods that modeled the left truncated sighting curve	N	(Kingsley and Reeves 1998)
14	1998	Jul-Aug	ship	4,163	south of Maryland	SEC	One team data analyzed by DISTANCE.	N	(Mullin and Fulling 2003)
15	1998	Aug-Sep	plane (1995 and 1998)		Gulf of St. Lawrence	DFO			(Kingsley and Reeves 1998)
16	1998	Jul-Sep	ship (Abel-J) and plane (Twin Otter)	15,900	north of Maryland	NEC	Ship: two independent team data analyzed with the modified direct duplicate or Palka & Hammond analysis methods, depending on the presence of responsive movement. Plane: one team data analyzed by DISTANCE.	Y	

17	1999	Jul–Aug	ship (Abel-J) and plane (Twin Otter)	6,123	south of Cape Cod to mouth of Gulf of St. Lawrence	NEC	Ship: two independent team data analyzed with modified direct duplicate or Palka & Hammond analysis methods, depending on the presence of responsive movement. Plane: circle-back data pooled with aerial data collected in 1999, 2002, 2004, 2006, 2007, and 2008 to calculate pooled g(0)'s and year-species specific abundance estimates for all years except 2008.	Y	
18	2002	Jul–Aug	plane (Twin Otter)	7,465	Georges Bank to Maine	NEC	Same as for plane in survey 17.	Y	(Palka 2006)
19	2002	Feb–Apr	ship (Gunter)	4,592	SE US continental shelf Delaware - Florida	SEC	One team data analyzed by DISTANCE.	N	(Garrison <i>et al.</i> 2003)
20	2002	Jun–Jul	plane	6,734	Florida to New Jersey	SEC	Two independent team data analyzed with modified direct duplicate method.	Y	(Garrison 2003)
21	2004	Jun–Aug	ship (Gunter)	5,659	Florida to Maryland	SEC	Two independent team data analyzed with modified direct duplicate method.	Y	(Garrison <i>et al.</i> in prep)
22	2004	Jun-Aug	ship (Endeavor) and plane (Twin Otter)	10,761	Maryland to Bay of Fundy	NEC	Same methods used in survey 17.	Y	(Palka 2006)
23	2006	Aug	plane (Twin Otter)	10,676	Georges Bank to Bay of Fundy	NEC	Same as for plane in survey 17.	Y	Palka (in prep)
24	2007	Aug	ship (Bigelow) and plane (Twin Otter)	8,195	Georges Bank to Bay of Fundy	NEC	Ship: Tracker data analyzed by DISTANCE. Plane: same as for plane in survey 17.	Y	Palka (in prep)
25	2007	July–Aug	plane	46,804	Canadian waters from Nova Scotia to Newfoundland	DFO	uncorrected counts	N	(Lawson and Gosselin 2009)
26	2008	Aug	plane (Twin Otter)	6,267	NY to Maine in US waters	NEC	Same as for plane in survey 17.	Y	Palka (in prep)
27	2001	May–June	plane	na	Maine coast	NEC/UM	corrected counts	N	(Gilbert <i>et al.</i> 2005)
28	1999	March	plane	na	Cape Cod	NEC	uncorrected counts	N	(Barlas 1999)
29	1983 - 1986	1983 (Fall) 1984	plane (Beechcraft D-18S)	103,490 total 25,627	northern Gulf of Mexico bays	SEC	One team data analyzed with Line-transect theory	N	(Scott <i>et al.</i> 1989)

		(Winter, Spring, Summer) 1985 (Summer, Fall) 1986 (Winter)	modified with a bubblenose)	(bays and sounds) 36,685 (coastal) 41,178 (outer continental shelf, OCS)	and sounds, coastal waters from shoreline to 18-m isobath, and OCS waters from 18-m isobath to 9.3 km past the 18-m isobath				
30	1991-1994	Apr–June	ship (Oregon II)	22,041	northern Gulf of Mexico from 200 m to U.S. EEZ	SEC	One team data analyzed by DISTANCE	N	(Hansen <i>et al.</i> 1995)
31	1992-1993	Sep–Oct	plane (Twin Otter)	5,578 (bays and sounds) 4,806 (coastal) 7,678 (outer continental shelf, OCS)	northern Gulf of Mexico bays and sounds, coastal waters from shoreline to 18-m isobath, and OCS waters from 18-m isobath to 9.3 km past the 18-m isobath	GOMEX9 2 GOMEX9 3	One team data analyzed by DISTANCE	N	(Blaylock and Hoggard 1994)
32	1994	Sep–Nov	plane (Twin Otter)	1,155 (bays and sounds) 1,953 (coastal) 1,879	northern Gulf of Mexico bays and sounds, coastal waters from shoreline to 18-m isobath, and OCS waters from 18-m isobath to 9.3 km past the 18-m isobath	GOMEX9 4	One team data analyzed by DISTANCE	N	NMFS unpub. data
				(outer continental shelf, OCS)	isobath, and OCS waters from 18-m isobath to 9.3 km past the 18-m isobath				
33	1996-1997, 1999-2001	Apr–June	ship (Oregon II and Gunter)	12,162	northern Gulf of Mexico from 200 m to U.S. EEZ	SEC	One team data analyzed by DISTANCE	N	(Mullin and Fulling 2004)
34	1998-2001	end Aug–early Oct	ship (Gunter and Oregon II)	2,196	northern Gulf of Mexico outer continental shelf (OCS, 20-200 m)	SEC	One team data analyzed by DISTANCE	N	(Fulling <i>et al.</i> 2003)
35	2003-2004	Jun–Aug (2003) Apr–Jun (2004)	ship (Gunter)	10,933	northern Gulf of Mexico from 200 m to U.S. EEZ	SEC	One team data analyzed by DISTANCE	N	(Mullin 2007)
36	2004	12–13 Jan	helicopter		Sable Island	DFO	Pup count	na	(Bowen <i>et al.</i> 2007)

37	2004		plane		Gulf of St Lawrence and Nova Scotia Eastern Shore	DFO	Pup count		(Hammill 2005)
38	2009	10 June–13 August	ship	4,600	northern Gulf of Mexico from 200m to U.S. EEZ	SEC	One team data analyzed by DISTANCE	N	
39	2007	17 July–8 August	plane		northern Gulf of Mexico from shore to 200m (majority of effort 0–20m)	SEC	One team data analyzed by DISTANCE	N	
40	2011	4 June–1 August	ship (Bigelow)	3,107	Virginia to Massachusetts (waters that were deeper than the 100-m depth contour out to beyond the US EEZ)	NEC	Two-independent teams, both using big-eyes. Analyzed using DISTANCE, the independent observer option assuming point independence.	Y	(Palka 2012)
41	2011	7–26 August	Plane (Twin Otter)	5,313	Massachusetts to New Brunswick, Canada (waters north of New Jersey and shallower than the 100-m depth contour, through the US and Canadian Gulf of Maine and up to and including the lower Bay of Fundy)	NEC	Two-independent teams, both using naked eye in the same plane. Analyzed using DISTANCE, the independent observer option assuming point independence.	Y	(Palka 2012)
42	2011	19 June–1 August	Ship (Gunther)	4,445	Florida to Virginia	SEC	Two-independent teams, both using	Y	
							big-eyes. Analyzed using DISTANCE, the independent observer option assuming point independence.		
43	2012	May–June	plane	na	Maine coast	NEC	corrected counts	N	(Waring <i>et al.</i> in press)
44	2011	March–April	plane	13,500–15,600	U.S. Gulf of Mexico coast	SEC	Two-independent teams, analyzed using DISTANCE		
45	2011	July–August	plane	13,500–15,600	U.S. Gulf of Mexico coast	SEC	Two-independent teams, analyzed using DISTANCE		

46	2011	October-Nov	plane	13,500-15,600	U.S. Gulf of Mexico coast	SEC	Two-independent teams, analyzed using DISTANCE		
47	2012	January-Febr	plane	13,500-15,600	U.S. Gulf of Mexico coast	SEC	Two-independent teams, analyzed using DISTANCE		

APPENDIX IV: Table B. Abundance estimates – "Survey Number" refers to surveys described in Table A. "Best" estimate for each species in bold font.

Species	Stock	Year	Nbest	CV	Survey Number	Notes	
Humpback Whale	Gulf of Maine	1992	501			minimum pop'n size estimated from photo-ID data	
		1993	652	0.29		YONAH sampling (Clapham <i>et al.</i> 2003)	
		1997	497			minimum pop'n size estimated from photo-ID data	
		1999	902	0.45	17		
		2002	521	0.67	18		
		2004	359	0.75	22		
		2006	847	0.55	23		
		2008	823				Mark-recapture estimate Robbins 2010
		2011	335	0.42	40+41		
Fin Whale	Western North Atlantic	1995	2,200	0.24	12		
		1999	2,814	0.21	18		
		2002	2,933	0.49	18		
		2004	1,925	0.55	22		
		2006	2,269	0.37	23		
		2007	3,522	0.27	25		
		2011	1,595	0.33	40+41		
		2011	23	0.87	42		
Sei Whale	Nova Scotia	1977	1,393-2248			based on tag-recapture data (Mitchell and Chapman 1977)	
		1977	870			based on census data (Mitchell and Chapman 1977)	
		1982	280		1		
		2002	71	1.01	21		
		2004	386	0.85	23		
		2006	207	0.62	24		
		2011	357	0.52	40+41		
Minke	Canadian	1982	320	0.23	1		

Whale	East Coast	1992	2,650	0.31	3+8	
		1993	330	0.66	9	
		1995	2,790	0.32	12	
		1995	1,020	0.27	11	
		1996	620	0.52	13	
		1999	2,998	0.19	17	
		2002	756	0.9	18	
		2004	600	0.61	22	
		2006	3,312	0.74	23	
		2007	20,741	0.3	25	
		2011	2,591	0.81	40+41	
Sperm Whale	North Atlantic	1982	219	0.36	1	
		1990	338	0.31	2	
		1991	736	0.33	7	
		1991	705	0.66	6	
		1991	337	0.5	5	
		1993	116	0.4	9	
		1994	623	0.52	10	
		1995	2,698	0.67	12	
		1998	2,848	0.49	16	
		1998	1,181	0.51	14	
		2004	2,607	0.57	22	
		2004	2,197	0.47	21	
		2004	4,804	0.38	21+22	Estimate summed from north and south surveys
		2011	1,593	0.36	40+41	
		2011	695	0.39	42	
		2011	2,288	0.28	40+41+42	Estimate summed from north and south surveys
Kogia spp.	Western North Atlantic	1998	115	0.61	16	
		1998	580	0.57	14	
		2004	358	0.44	22	
		2004	37	0.75	21	
		2004	395	0.4	21+22	Estimate summed from north and south surveys
		2011	1,783	0.62	40+41	
		2011	2,002	0.69	42	
		2011	3,785	0.47	40+41+42	Estimate summed from north and south surveys
Beaked Whales	Western North Atlantic	1982	120	0.71	1	
		1990	442	0.51	2	

		1991	262	0.99	7			
		1991	370	0.65	6			
		1991	612	0.73	5			
		1993	330	0.66	9			
		1994	99	0.64	10			
		1995	1,519	0.69	12			
		1998	2,600	0.4	16			
		1998	541	0.55	14			
		2004	2,839	0.78	22			
		2004	674	0.36	21			
		2004	3,513	0.63	21+22	Estimate summed from north and south surveys		
		2006	922	1.47	23			
		2011	5,500	0.67	40+41	2011 estimates are for <i>Mesoplodon</i> spp. beaked whales alone (not including <i>Ziphias</i>)		
		2011	1,592	0.67	42	2011 estimates are for <i>Mesoplodon</i> spp. beaked whales alone (not including <i>Ziphias</i>)		
		2011	7,092	0.54	40+41+42	2011 estimates are for <i>Mesoplodon</i> spp. beaked whales alone (not including <i>Ziphias</i>); Estimate summed from north and south surveys		
Cuvier's Beaked Whale	Western North Atlantic	2011	4,962	0.37	40+41			
		2011	1,570	0.65	42			
		2011	6,532	0.32	40+41+42	Estimate summed from north and south surveys		
Risso's Dolphin	Western North Atlantic	1982	4,980	0.34	1			
		1991	11,017	0.58	7			
		1991	6,496	0.74	5			
		1991	16,818	0.52	6			
		1993	212	0.62	9			
		1995	5,587	1.16	12			
		1998	18,631	0.35	17			
		1998	9,533	0.5	15			
		1998	28,164	0.29	15+17	Estimate summed from north and south surveys		
		2002	69,311	0.76	18			
		2004	15,053	0.78	21			
		2004	5,426	0.54	22			
		2004	20,479	0.59	21+22	Estimate summed from north and south surveys		
		2006	14,408	0.38	23			
		2011	15,197	0.55	40+41			
		2011	3,053	0.44	42			
				2011	18,250	0.46	40+41+42	Estimate summed from north and south surveys

Pilot Whale	Western North Atlantic	1951	50,000			Derived from catch data from 1951-1961 drive fishery (Mitchell 1974)	
		1975	43,000-96000			Derived from population models (Mercer 1975)	
		1982	11,120	0.29	1		
		1991	3,636	0.36	7		
		1991	3,368	0.28	5		
		1991	5,377	0.53	6		
		1993	668	0.55	9		
		1995	8,176	0.65	12		
		1995	9,776	0.55	12+16		Sum of US (#12) and Canadian (#16) surveys
		1998	1,600	0.65	16		
		1998	9,800	0.34	17		
		1998	5,109	0.41	15		
		2002	5,408	0.56	18		
		2004	15,728	0.34	22		
		2004	15,411	0.43	21		
		2004	31,139	0.27	21+22		Estimate summed from north and south surveys
		2006	26,535	0.35	23		Best estimate for long-finned pilot whales alone; Estimate summed from north and south surveys
		2007	6,134	0.28	25		long-finned pilot whales
		2011	5,636	0.63	40+41		long-finned pilot whales
		2011	4,569	0.57	40+41		short-finned pilot whales
2011	16,946	0.43	42		short-finned pilot whales		
2011	21,515	0.37	40+41+42		Best estimate for short-finned pilot whales alone; Estimate summed from north and south surveys		
Atlantic white-sided Dolphin	Western North Atlantic	1982	28,600	0.21	1		
		1992	20,400	0.63	2+7		
		1993	729	0.47	9		
		1995	27,200	0.43	12		
		1995	11,750	0.47	11		
		1996	560	0.89	13		
		1999	51,640	0.38	17		
		2002	109,141	0.3	18		
		2004	2,330	0.8	22		
		2006	17,594	0.3	23		
		2006	63,368	0.27	(18+23)/2		average of #18 and #23

		2007	5,796	0.43	25	
		2011	48,819	0.61	40+41	
White-beaked Dolphin	Western North Atlantic	1982	573	0.69	1	
			5,500			(Alling and Whitehead 1987)
		1982	3,486	0.22		(Alling and Whitehead 1987)
		2006	2,003	0.94	23	
		2007	11,842		25	
		2008			26	
		Common Dolphin	Western North Atlantic	1982	29,610	0.39
1991	22,215			0.4	7	
1993	1,645			0.47	9	
1995	6,741			0.69	12	
1998	30,768			0.32	17	
1998	0				15	
2002	6,460			0.74	21	
2004	90,547			0.24	22	
2004	30,196			0.54	21	
2004	120,743			0.23	21+22	Estimate summed from north and south surveys
2006	84,000			0.36	24	
2007	53,625			0.22	25	
2011	67,191			0.29	40+41	
2011	2,993			0.87	42	
2011	70,184			0.28	40+41+42	Estimate summed from north and south surveys
Atlantic Spotted Dolphin	Western North Atlantic			1982	6,107	0.27
		1995	4,772	1.27	12	
		1998	32,043	1.39	16	
		1998	14,438	0.63	14	
		2004	3,578	0.48	22	
		2004	47,400	0.45	21	
		2004	50,978	0.42	21+22	Estimate summed from north and south surveys
		2011	26,798	0.66	40+41	
		2011	17,917	0.42	42	
		2011	44,715	0.43	40+41+42	Estimate summed from north and south surveys
Pantropical Spotted Dolphin	Western North Atlantic	1982	6,107	0.27	1	
		1995	4,772	1.27	12	
		1998	343	1.03	16	
		1998	12,747	0.56	14	
		2004	0		22	

		2004	4,439	0.49	21	
		2004	4,439	0.49	21+22	Estimate summed from north and south surveys
		2011	0	0	40+41	
		2011	3,333	0.91	42	
		2011	3,333	0.91	40+41+42	Estimate summed from north and south surveys
Striped Dolphin	Western North Atlantic	1982	36,780	0.27	1	
		1995	31,669	0.73	12	
		1998	39,720	0.45	16	
		1998	10,225	0.91	14	
		2004	52,055	0.57	22	
		2004	42,407	0.53	21	
		2004	94,462	0.4	21+22	Estimate summed from north and south surveys
		2011	46,882	0.33	40+41	
		2011	7,925	0.66	42	
		2011	54,807	0.3	40+41+42	Estimate summed from north and south surveys
Rough-toothed Dolphin	Western North Atlantic	2011	0	0	40+41	
		2011	271	1	42	
		2011	271	1	40+41+42	Estimate summed from north and south surveys
Bottlenose Dolphin	Western North Atlantic Offshore	1998	16,689	0.32	16	
		1998	13,085	0.4	14	
		2002	26,849	0.19	20	
		2002	5,100	0.41	18	
		2004	9,786	0.56	22	
		2004	44,953	0.26	21	
		2006	2,989	1.11	23	
		2011	26,766	0.52	40+41	
		2011	50,766	0.55	42	
		2011	77,532	0.4	40+41+42	Estimate summed from north and south surveys
Harbor Porpoise	Gulf of Maine/Bay of Fundy	1991	37,500	0.29	3	
		1992	67,500	0.23	8	
		1995	74,000	0.2	12	
		1995	12,100	0.26	11	
		1996	21,700	0.38	14	
		1999	89,700	0.22	18	survey discovered portions of the range not previously surveyed
		2002	64,047	0.48	21	
		2004	51,520	0.65	23	

		2006	89,054	0.47	24	
		2007	4,862	0.31	25	
		2011	79,883	0.32	40+41	
Harbor Seal	Western North Atlantic	2001	99,340	0.097	27	
		2012	75,834	0.15	43	Waring <i>et al.</i> in press
Gray Seal	Western North Atlantic	1999	5,611		28	
		2001	1,731		27	
		2004	52,500	0.15	37	Gulf of St Lawrence and Nova Scotia Eastern Shore
		2004	208,720	0.14		
			216,490	0.11		
2004	223,220	0.08	36	Sable Island		
		2012	331,000	95% CI 263,000- 458,000		DFO 2013
Bryde's Whale	Northern Gulf of Mexico	1991-1994	35	1.1	30	
		1996-2001	40	0.61	33	
		2003-2004	15	1.98	35	
		2009	33	1.07	38	
Sperm Whale	Northern Gulf of Mexico	1991-1994	530	0.31	30	
		1996-2001	1,349	0.23	33	
		2003-2004	1,665	0.2	35	
		2009	763	0.38	38	
Kogia spp.	Northern Gulf of Mexico	1991-1994	547	0.28	30	
		1996-2001	742	0.29	33	
		2003-2004	453	0.35	35	
		2009	186	1.04	38	
Cuvier's Beaked Whale	Northern Gulf of Mexico	1991-1994	30	0.5	30	
		1996-2001	95	0.47	33	
		2003-2004	65	0.67	35	
		2009	74	1.04	38	
Mesoplodon spp.	Northern Gulf of Mexico	1996-2001	106	0.41	33	
		2003-2004	57	1.4	35	
		2009	149	0.91	38	
Killer Whale	Northern Gulf of Mexico	1991-1994	277	0.42	30	
		1996-2001	133	0.49	33	

		2003-2004	49	0.77	35	
		2009	28	1.02	38	
False killer Whale	Northern Gulf of Mexico	1991-1994	381	0.62	30	
		1996-2001	1,038	0.71	33	
		2003-2004	777	0.56	35	
Short-finned Pilot Whale	Northern Gulf of Mexico	1991-1994	353	0.89	30	
		1996-2001	2,388	0.48	33	
		2003-2004	716	0.34	35	
		2009	2,415	0.66	38	
Melon-headed Whale	Northern Gulf of Mexico	1991-1994	3,965	0.39	30	
		1996-2001	3,451	0.55	33	
		2003-2004	2,283	0.76	35	
		2009	2,235	0.75	38	
Pygmy Killer Whale	Northern Gulf of Mexico	1991-1994	518	0.81	30	
		1996-2001	408	0.6	33	
		2003-2004	323	0.6	35	
		2009	152	1.02	38	
Risso's Dolphin	Northern Gulf of Mexico	1991-1994	2,749	0.27	30	
		1996-2001	2,169	0.32	33	
		2003-2004	1,589	0.27	35	
		2009	2,442	0.57	38	
Pantropical Spotted Dolphin	Northern Gulf of Mexico	1991-1994	31,320	0.2	30	
		1996-2001	91,321	0.16	33	
		2003-2004	34,067	0.18	35	
		2009	50,880	0.27	38	
Striped Dolphin	Northern Gulf of Mexico	1991-1994	4,858	0.44	30	
		1996-2001	6,505	0.43	33	
		2003-2004	3,325	0.48	35	
		2009	1,849	0.77	38	
Spinner Dolphin	Northern Gulf of Mexico	1991-1994	6,316	0.43	30	
		1996-2001	11,971	0.71	33	
		2003-2004	1,989	0.48	35	
		2009	11,441	0.83	38	
Clymene	Northern	1991-1994	5,571	0.37	30	

Dolphin	Gulf of Mexico	1996-2001	17,355	0.65	33	
		2003-2004	6,575	0.36	35	
		2009	129	1	38	
Atlantic Spotted Dolphin	Northern Gulf of Mexico	1991-1994 oceanic	3,213	0.44	30	
		1996-2001 oceanic	175	0.84	33	
		1998-2001 OCS	37,611	0.28	34	This abundance estimate is from 2000-2001 surveys only. Current best population size estimate is unknown because data from the continental shelf portion of this species' range are more than 8 years old.
		2003-2004 oceanic	0	-	35	
		2009	2968	0.67	38	
Fraser's Dolphin	Northern Gulf of Mexico	1991-1994	127	0.9	30	
		1996-2001	726	0.7	33	
		2003-2004	0	-	35	
		2009	0	-	38	Current best population size estimate is unknown.
Rough-toothed Dolphin	Northern Gulf of Mexico	1991-1994 oceanic	852	0.31	30	
		1996-2001 oceanic	985	0.44	33	
		1998-2001 OCS	1,145	0.83	34	This abundance estimate is from 2000-2001 surveys only. Current best population size estimate is unknown because data from the continental shelf portion of this species' range are more than 8 years old.
		2003-2004 oceanic	1,508	0.39	35	
		2009	624	0.99	0.05	
Bottlenose Dolphin	Northern Gulf of Mexico Oceanic	1996-2001	2,239	0.41	33	
		2003-2004	3,708	0.42	35	
		2009	5,806	0.39	38	
Bottlenose Dolphin	Northern Gulf of Mexico Continental Shelf	1998-2001	17,777	0.32	34	This abundance estimate is from 2000-2001 surveys only.
		2011-2012	51,192	0.1	44-47	
Bottlenose Dolphin	Northern Gulf of Mexico	Eastern 1994	9,912	0.12	32	

	Coastal (3 stocks)	Eastern 2007	7,702	0.19	39	
		Eastern 2011/2012	12,388	0.13	44-47	
		Northern 1993	4,191	0.21	31	
		Northern 2007	2,473	0.25	39	
		Northern 2011/2012	7,185	0.21	44-47	
		Western 1992	3,499	0.21	31	
		Western 2011/2012	20,161	0.17	44-47	
Bottlenose Dolphin	Northern Gulf of Mexico Bay, Sound and Estuarine (31 stocks)	Choctawhatchee Bay, 2007	179	0.04		(Conn <i>et al.</i> 2011)
		St. Joseph Bay, 2005-2007	146	0.18		(Balmer <i>et al.</i> 2008)
		St. Vincent Sound, Apalachicola Bay, St. George Sound, 2008	439	0.14		(Tyson <i>et al.</i> 2011)
		Sarasota Bay, Little Sarasota Bay, 2007	160	-		Direct count; Wells, R.S. 2009.
		Mississippi River Delta, 2011-12	332	0.93		
		Mississippi Sound/ Lake Borgne, Bay Boudreau	901	0.63		
		Pine Island Sound, Charlotte Harbor, Gasparilla Sound, Lemon Bay (2006)	826	0.09		Bassos-Hull <i>et al.</i> 2013
		Remaining 27 stocks	unknown	undetermined	31	Current best population size estimate for each of these 27 stocks is unknown because data are more than 8 years old.

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