Survey	Year	Season	Platform	Track	Area	Agency/	Analysis	Corrected	Reference
Numbe r				line length (km)		Program	·	for g(0)	
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/SE C	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/SE C	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</i> <i>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 et al. 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	Ship: Y. Plane: Y (only harbor porpoise) N (rest of	(Palka 1996)
13	1996	Jul-Aug	plane	3,993	Northern Gulf of St. Lawrence	DFO	data analyzed by DISTANCE.  Quenouille's jackknife bias reduction procedure on line-transect methods that modeled the left truncated sighting	species)  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 modifed 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 15.	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 et al. 2003)
20	2002	Jun-Jul	plane	6,734	Florida to New Jersey	SEC	Two independent team data analyzed with modified direct-duplicate	Y	(Garrison 2003)

							method.		
21	2004	Jun-Aug	ship (Gunter)	5,659	Florida to Maryland	SEC	Two-independent- team data analyzed with modified direct-duplicate method.	Y	(Garrison et al. 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 15.	Y	(Palka 2006)
23	2006	Aug	plane (Twin Otter)	10,676	Georges Bank to Bay of Fundy	NEC	Same as for plane in survey 15.	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 15.	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 15.	Y	Palka (in prep)
27	2001	May- June	plane	na	Maine coast	NEC/U M	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 (Winter, Spring, Summer) 1985 (Summer, Fall) 1986 (Winter)	plane (Beechcraft D-18S modified with a bubblenose)	103,490 total 25,627 (bays and sounds) 36,685 (coastal) 41,178 (outer continen tal 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	SEC	One team data analyzed with Line- transect theory	N	(Scott et al. 1989)
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</i> al. 1995)
31	1992- 1993	Sep-Oct	plane (Twin Otter)	5,578 (bays and sounds) 4,806 (coastal) 7,678 (outer continen tal 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	GOME X92 GOME X93	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)	northern Gulf of Mexico bays and sounds, coastal waters from shoreline to 18-m isobath,	GOME X94	One team data analyzed by DISTANCE	N	NMFS unpub. data

			1,879	and OCS waters				
			(outer	from 18-m				
			continen	isobath to 9.3				
			tal shelf,	km past the 18-				
			OCS)	m isobath				
1996-	Apr-June	ship	12,162	northern Gulf of	SEC	One team data	N	(Mullin
1997,	1	(Oregon II		Mexico from		analyzed by		and Fulling
1999-		and Gunter)		200 m to U.S.		DISTANCE		2004)
2001		ŕ		EEZ				ŕ
1998-	end Aug-	ship	2,196	northern Gulf of	SEC	One team data	N	(Fulling et
2001	early Oct	(Gunter and		Mexico outer		analyzed by		al. 2003)
	,	Oregon II)		continental shelf		DISTANCE		
		,		(OCS, 20-200				
				m)				
2003-	Jun-Aug	ship	10,933	northern Gulf of	SEC	One team data	N	(Mullin
2004	(2003)	(Gunter)		Mexico from		analyzed by		2007)
	Apr-Jun			200 m to U.S.		DISTANCE		
	(2004)			EEZ				
2004	12-13 Jan	helicopter		Sable Island	DFO	Pup count	na	(Bowen et
								al. 2007)
2004		nlane		Gulf of St	DFO	Pun count		(Hammill
2001		piune			DI O	r up count		2005)
								2003)
2009	10 June –	ship	4,600	northern Gulf of	SEC			
	13	г	,,,,,					
	11							
	1997, 1999- 2001 1998- 2001 2003- 2004 2004	1997, 1999- 2001 end Aug- 2001 early Oct  2003- Jun-Aug (2003) Apr-Jun (2004)  2004 12-13 Jan  2004  2009 10 June —	1997,   1999-   2001   and Gunter)	Couter continental shelf, OCS	Couter continen tal shelf, OCS   Core of tal shelf occ of t	Couter continen tal shelf, OCS   Sec m isobath to 9.3 km past the 18-m isobath	Couter continen tal shelf, OCS   Sec m isobath to 9.3 km past the 18-m isobath to 9.3 km past the 18-m isobath to 9.3 km past the 18-m isobath	Couter continen tal shelf, OCS   SEC   SEC   One team data   N

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
		1992	501			minimum pop'n size estimated from photo-ID data
		1993	652	0.29		YONAH sampling (Clapham et al. 2003)
		1997	497			minimum pop'n size estimated from photo-ID data
Humpback Whale	Gulf of Maine	1999	902	0.45	17	
		2002	521	0.67	18	
		2004	359	0.75	22	
		2006	847	0.55	23	
		1995	2,200	0.24	12	
		1999	2,814	0.21	18	
	Western	2002	2,933	0.49	18	
Fin Whale	North	2004	1,925	0.55	22	
	Atlantic	2006	2,269	0.37	23	
		2007	1,352	0.26	25	
		2007	3,985	0.24	23+25	
		1977	1,393- 2,248			based on tag-recapture data (Mitchell and Chapman 1977)
	Nova	1977	870			based on census data (Mitchell and Chapman 1977)
Sei Whale	Scotia	1982	280		1	
		2002	71	1.01	21	
		2004	386	0.85	23	

		2006	207	0.62	24	
		1982	320	0.23	1	
		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	
Minke Whale	Canadian East Coast	1999	2,998	0.19	17	
	Zust Coust	2002	756	0.9	18	
		2004	600	0.61	22	
		2006	3,312	0.74	23	
		2007	3,242		25	
		2007	5,675		38	
		2007	8,987	0.32	23+25	
		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	
	North	1993	116	0.4	9	
Sperm Whale	Atlantic	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
		1998	115	0.61	16	
	Western	1998	580	0.57	14	
Kogia spp.	North Atlantic	2004	358	0.44	22	
	Attailtic	2004	37	0.75	21	
		2004	395	0.4	21+22	Estimate summed from north and south surveys
		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	
Beaked	Western North	1994	99	0.64	10	
Whales	North Atlantic	1995	1,519	0.69	12	
		1998	2,600	0.4	16	
	-	1998	541	0.55	14	
'		1990			+	
				0.78	22	
		2004	2,839	0.78	22	
				0.78 0.36 <b>0.63</b>	22 21 21+22	Estimate summed from north and south surveys

		1982	4,980	0.34	1	1
	-	1991	11,017	0.58	7	
		1991	6,496	0.74	5	
	-	1991	16,818	0.74	6	
	-	1991	212	0.52	9	
	-					
	Western	1995	5,587	1.16	12	
Risso's Dolphin	North	1998	18,631	0.35	17	
Борин	Atlantic	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	Derived from catch data from 1951-1961 drive fishery
		1951	50,000			(Mitchell 1974)
			43,000-			
		1975	96,000	0.20		Derived from population models (Mercer 1975)
	-	1982	11,120	0.29	1 7	
		1991	3,636	0.36	7	
	<u> </u>	1991 1991	3,368	0.28	5	
	-	1991	5,377 668	0.55	6	
	-	1995	8,176	0.55	12	
Pilot Whale	Western North	1995	9,776	0.65	12+16	Sum of US (#12) and Canadian (#16) surveys
Thot whate	Atlantic	1998	1,600	0.65	16	Sum of OS (#12) and Canadian (#10) surveys
	-	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	
		2007	6,134		25	
		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	
Atlantic	Western	1996	560	0.89	13	
white-sided Dolphin	North Atlantic	1999	51,640	0.38	17	
Богриш	2 mantic	2002	109,141	0.3	18	
		2004	2,330	0.8	22	
		2004	17,594	0.3	23	
		2006	63,368	0.27	(18+23)/2	average of #18 and #23
		2007	5,796	0.43	25	Wichigo of 1120 diffe 1120
White-beaked	Western	1982	573	0.43	1	
Dolphin	North	1704		0.09	1	(Alling and Whitehead 1987)
			5,500		1	(Alling and Whitehead 1987)

	Atlantic	1982	3,486	0.22		(Alling and Whitehead 1987)
		2006	2,003	0.94	23	
		2007	1,1842		25	
		2008			26	
		1982	29,610	0.39	1	
		1991	22,215	0.4	7	
		1993	1,645	0.47	9	
		1995	6,741	0.69	12	
		1998	30,768	0.32	17	
Common	Western	1998	0		15	
Dolphin	North Atlantic	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	
		1982	6,107	0.27	1	
	-	1995	4,772	1.27	12	
Altantic	Wastam	1998	32,043	1.39	16	
Altantic Western Spotted North		1998	14,438	0.63	14	
Dolphin	Atlantic	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
		1982	6,107	0.27	1	Estimate summed from north and south surveys
	-	1995	4,772	1.27	12	
		1998	343	1.03	16	
Pantropical Spotted	Western North	1998	12,747	0.56	14	
Dolphin	Atlantic	2004	0	0.50	22	
	-	2004	4,439	0.49	21	
	-	2004		0.49		Estimate summed from north and south surveys
		1982	<b>4,439</b> 36,780	0.49	21+22 1	Estimate summed from north and south surveys
	-	1995	31,669	0.27	12	
	-	1993	39,720	0.73	16	
Striped	Western North	1998	10,225	0.43	14	
Dolphin	Atlantic	2004	52,055	0.57	22	
		2004	42,407	0.57	21	
		2004	94,462	0.33	21+22	Estimate summed from north and south surveys
						Estimate summed from north and south surveys
		1998 1998	16,689 13,085	0.32	16	
	XV	2002		0.4	20	
Bottlenose	Western North	2002	26,849 5,100		18	
Dolphin	Atlantic			0.41		
	Offshore	2004	9,786	0.56	22	
		2004	44,953	0.26	21	Estimate summed from north and south surveys and 2002
		2004	81,588	0.17	20+21+22	survey
Harbor	Gulf of	1991	37,500	0.29	3	
Porpoise	Maine/Bay	1992	67,500	0.23	8	

İ	of Fundy	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	and the second s
		2004	51,520	0.65	23	
		2006	89,054	0.47	24	
		2007	4,862	0.31	25	
Harbor Seal	Western North Atlantic	2001	99,340	0.097	27	
		1999	5,611		28	
	Western	2001	1,731		27	
Gray Seal	North	2004	52,500	0.15	37	Gulf of St Lawrence and Nova Scotia Eastern Shore
	Atlantic		208,720	0.14		
		2004	216,490 223,220	0.11 0.08	36	Sable Island
	Nouthous	1991-1994	35	1.10	30	Sucre asimile
Bryde's	Northern Gulf of	1996-2001	40	0.61	33	
W/hala	Mexico	2003-2004	15	1.98	35	
N	NT 41	1991-1994	530	0.31	30	
Sperm Whale	Northern Gulf of	1996-2001	1,349	0.23	33	
•	Mexico	2003-2004	1,665	0.20	35	
		1991-1994	547	0.28	30	
Kogia spp.	Northern	1996-2001	742	0.29	33	
	Gulf of Mexico	2003-2004	453	0.35	35	
	Northern Gulf of	1991-1994	30	0.50	30	
Cuvier's Beaked Whale		1996-2001	95	0.47	33	
Beaked Whale	Mexico	2003-2004	65	0.67	35	
Mesoplodon	Northern	1996-2001	106	0.41	33	
spp.	Gulf of Mexico	2003-2004	57	1.40	35	
	Northern	1991-1994	277	0.42	30	
Killer Whale	Gulf of	1996-2001	133	0.49	33	
	Mexico	2003-2004	49	0.77	35	
	Northern	1991-1994	381	0.62	30	
False killer Whale	Gulf of	1996-2001	1,038	0.71	33	
whale	Mexico	2003-2004	777	0.56	35	
	Northern	1991-1994	353	0.89	30	
Short-finned Pilot Whale	Gulf of	1996-2001	2,388	0.48	33	
i not whate	Mexico	2003-2004	716	0.34	35	
	Northern	1991-1994	3,965	0.39	30	
Melon-headed Whale	Gulf of	1996-2001	3,451	0.55	33	
winaic	Mexico	2003-2004	2,283	0.76	35	
	Northern	1991-1994	518	0.81	30	
Pygmy Killer Whale	Gulf of	1996-2001	408	0.60	33	
11 Haic	Mexico	2003-2004	323	0.60	35	
Risso's	Northern	1991-1994	2,749	0.27	30	

Dolphin	Gulf of	1996-2001	2,169	0.32	33	
	Mexico	2003-2004	1,589	0.27	35	
Pantropical	Northern	1991-1994	31,320	0.20	30	
Spotted	Gulf of	1996-2001	91,321	0.16	33	
Dolphin	Mexico	2003-2004	34,067	0.18	35	
	Northern	1991-1994	4,858	0.44	30	
Striped Dolphin	Gulf of	1996-2001	6,505	0.43	33	
Doipiiii	Mexico	2003-2004	3,325	0.48	35	
	Northern	1991-1994	6,316	0.43	30	
Spinner Dolphin	Gulf of	1996-2001	11,971	0.71	33	
Dorpiili	Mexico	2003-2004	1,989	0.48	35	
	Northern	1991-1994	5,571	0.37	30	
Clymene Dolphin	Gulf of	1996-2001	17,355	0.65	33	
Dolphin	Mexico	2003-2004	6,575	0.36	35	
		1991-1994	2.212	0.44	20	
		oceanic 1996-2001	3,213	0.44	30	
Atlantic	Northern	oceanic	175	0.84	33	
Spotted Dolphin	Gulf of Mexico	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	
	Northern	1991-1994	127	0.90	30	
Fraser's Dolphin	Gulf of	1996-2001	726	0.70	33	
Богрипп	Mexico	2003-2004	0	-	35	Current best population size estimate is unknown.
		1991-1994	0.50	0.21	20	
		oceanic 1996-2001	852	0.31	30	
Rough-	Northern	oceanic	985	0.44	33	
toothed Dolphin	Gulf of Mexico	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	
Bottlenose	Northern Gulf of	1996-2001	2,239	0.41	33	
Dolphin	Mexico Oceanic	2003-2004	3,708	0.42	35	
Bottlenose Dolphin	Northern Gulf of Mexico Continental Shelf	1998-2001	17,777	0.32	34	This abundance estimate is from 2000-2001 surveys only. Current best population size estimate is unknown because data from the continental shelf are more than 8 years old.
	Northern	Eastern				- <b>y</b>
Bottlenose	Gulf of Mexico	1994 Northern	9,912	0.12	32	
Dolphin	Coastal (3	1993 Western	4,191	0.21	31	Current best population size estimate for each of these 3 stocks
	stocks)	1992	3,499	0.21	31	is unknown because data are more than 8 years old.
Bottlenose	Northern Gulf of					
Dolphin	Mexico Bay, Sound	St. Joseph Bay, 2005- 2006	81	0.14		(Balmer et al. 2008)

and	St. Vincent				
Estuarine	Sound,				
(32 stocks)	Apalachicola				
	Bay, St.				
	George				
	Sound, 2008	537	0.09		(Tyson 2008)
	Remaining				Current best population size estimate for each of these 30 stocks
	30 stocks	unknown	undetermined	31	is unknown because data are more than 8 years old.

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