



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL MARINE FISHERIES SERVICE  
Alaska Fisheries Science Center  
**National Marine Mammal Laboratory**  
7600 Sand Point Way N.E.  
Seattle, Washington 98115-0070  
Tel: 206.526.4045 Fax: 206.526.6615

11 January 2012

MEMORANDUM FOR: The Record

FROM: John L. Bengtson, Rolf Ream, and Rod Towell

SUBJECT: 2011 northern fur seal adult male counts on the Pribilof Islands, Alaska

Adult male northern fur seals on St. Paul, and St. George Islands (Table 1) were counted during the period July 9 to 14, 2011. Counts of territorial males with females ("harem" males) on St. George increased by 1.4% compared to 2010, while idle males (includes classes 2 and 5 from Table 1) on St. George increased by 8.0%. On St. Paul the idle males increased by 6.2% and the "harem" males decreased by 3.6% since 2010 (Figure 1). Overall, the total number of adult males counted on the Pribilof Islands in 2011 increased by 2.3% from 2010 to 10,922. The total number of territorial males with females decreased by 2.8% on the Pribilof Islands.

The rate of entanglement among adult females on St. Paul in 2011 was estimated during the counting of adult males, following established protocol. This year the results produced an estimated entanglement rate of 0.04% (Table 2).



Table 1. Number of adult male northern fur seals counted by rookery and behavior class (2 = territorial without females, 3 = territorial with females, 5 = non-territorial), Pribilof Islands, Alaska, July 2011.

Rookery	Date (July)	Class of adult male			Total
		2	3	5	
<u>St. Paul Island</u>					
Lukanin	9	49	107	167	323
Kitovi	9	63	158	168	389
Reef	13	209	526	389	1,124
Gorbatch	13	103	338	329	770
Ardiguen	13	6	48	7	61
Morjovi	12	134	334	320	788
Vostochni	12	151	696	488	1,335
Polovina	14	32	105	224	361
Little Polovina	14	0	0	168	168
Polovina Cliffs	14	100	363	101	564
Tolstoi	10	175	348	317	840
Zapadni Reef	11	61	174	181	416
Little Zapadni	11	127	256	257	640
Zapadni	11	216	376	597	1,189
Island total		1,426	3,829	3,713	8,968
<u>St. George Island</u>					
South	12	49	175	76	300
North	12	109	277	298	684
East Reef	11	33	83	50	166
East Cliffs	11	93	191	156	440
Staraya Artil	10	19	35	74	128
Zapadni	12	22	81	133	236
Island total		325	842	787	1,954

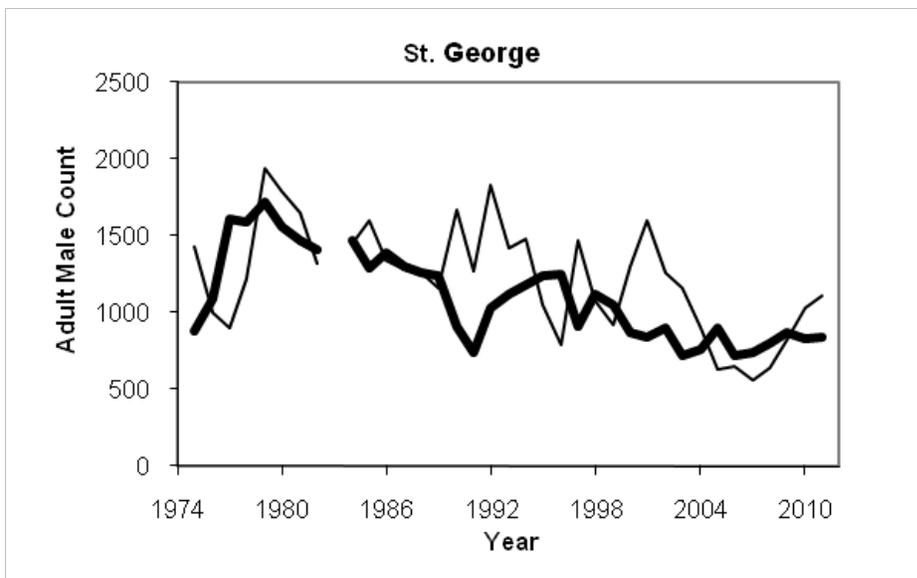
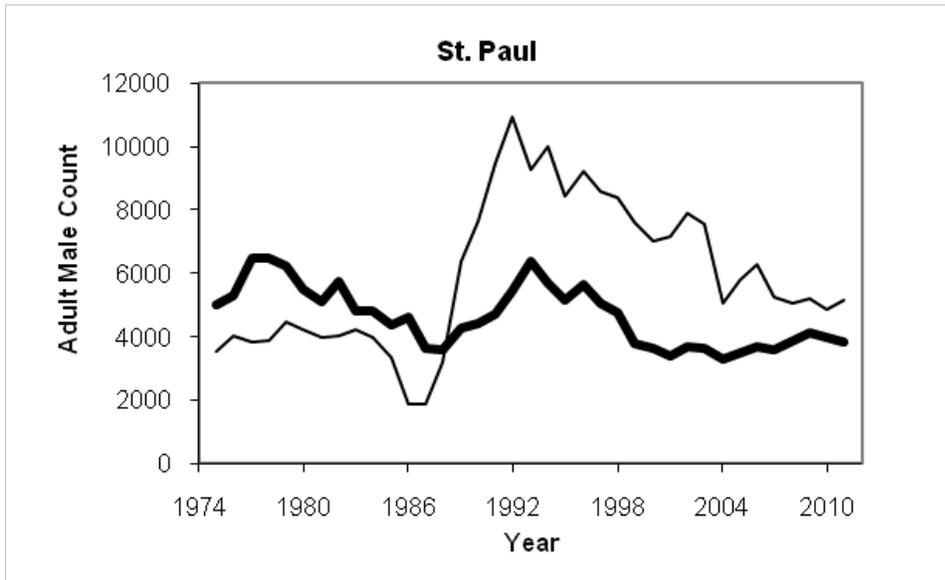


Figure 1. Northern fur seal adult males (harem – thick line, idle – thin line) counted on the Pribilof Islands 1975-2011.

Table 2. Summary of the number of adult female northern fur seals observed to be entangled in or to have been scarred by previous entanglement in marine debris on St. Paul Island, Alaska, 1991 – 2011 and on St. George Island, 2009.

Year	Total count	Number entangled	Number scarred	Total (entangled + scarred)	Entanglement rate (%)
1991	16,009	3	7	10	0.019
1992	25,089	3	6	9	0.012
1993	31,638	3	11	14	0.009
1994	30,269	7	10	17	0.023
1995	29,109	3	8	11	0.010
1996	30,426	4	7	11	0.013
1997	30,406	2	9	11	0.007
1998	28,461	3	8	11	0.011
1999	22,820	2	6	8	0.009
2000	7,746	3	5	8	0.039
2001	5,917	3	0	3	0.051
2002	9,607	1	1	2	0.010
2003	6,426	1	1	2	0.016
2004	19,701	2	7	9	0.010
2005	8,643	2	3	5	0.023
2006	9,039	1	2	3	0.011
2007	11,305	2	0	2	0.018
2008	-	-	-	-	-
2009					
St. Paul	3,902	0	0	0	0.000
St. George	4,570	0	0	0	0.000
2010	-	-	-	-	-
2011	8,875	4	0	4	0.045