Population Monitoring of Elephants Seals at Año Nuevo, 2007

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Population : Estimates of breeding elephant seal female and pup populations, Año Nuevo rookery, 2007. Number of pups born estimated as 0.975 x female number.

Area	Breeding females	Pups born	Pups weaned
Main point	1643	1602	1587
North point	330	321	271
Island	548	535	465
Total	2521	2458	2323

Weighing : Mean body mass in kg for elephant seals, Año Nuevo rookery, 2007. Sample size in parentheses. No correction for time since weaning date.

Age	F	М
Р	56.8 (12)	52.9 (8)
W	113.7 (59)	121.0 (52)

Female age distribution : Age and origin of breeding females whose tags were read, Año Nuevo rookery, 2007. The row *known* for Año Nuevo is the sum of the previous rows of known age. The following row is the number of observed females that had been tagged at Año Nuevo as adults, so age is not known. Age of most foreign-tagged females is not available to us.

Origin	Age	Main Point	North Point	Island	Total
Año Nuevo	3	2	1	0	3
	4	19	9	1	29
	5	23	2	0	25
	6	6	1	0	7
	7	6	6	0	12
	8	7	2	0	9
	9	11	0	0	11
	10	2	0	0	2
	11	3	1	0	4
	12	6	3	0	9
	13	5	0	1	6
	14	0	1	0	1
	15	2	0	0	2
	16	2	0	0	2
	18	3	0	0	3
	20	1	0	0	1
Año Nuevo	known	98	26	2	126
	unknown	38	18	2	58
San Miguel		8	2	3	13
Point Reyes		4	0	0	4
Gorda		1	0	2	3
Piedras Blancas		20	4	2	26
San Nicolas		4	0	1	5
MM Center		0	0	0	0

Newly tagged animals : Animals tagged for the first time in 2007 at the Año Nuevo colony. Number of animals tagged by age category and sex; YOY=pup/weaner (young-of-the-year) and Y=yearling. A total of 728 green tags plus 0 PIT tags were deployed on these animals. An additional 6 tags were voided, and 1 were observed on YOY but do not appear in the database.

age cat	female	male	sex unknown
YOY	347	166	101
Y	0	0	0
juv SA	0	2	0
SA	0	1	0
ad	1	1	0
Total	348	170	101

Newly tagged animals : Animals tagged for the first time in 2007 at the Año Nuevo colony. Number of animals singly- and doubly-tagged, adults/juveniles. The category 2+ includes a small number with 3 tags (29 were given 3 or more green tags; 3 were given 3 or more PIT tags).

	Green tags		
PIT tags	0	1	2+
0	2	2	1

Newly tagged animals : Animals tagged for the first time in 2007 at the Año Nuevo colony. Number of animals singly- and doubly-tagged, pups/weaners (YOY). The category 2+ includes a small number with 3 tags (29 were given 3 or more green tags; 3 were given 3 or more PIT tags).

	Green tags		
PIT tags	0	1	2+
0	52	390	147
2+	0	2	23

Re-tagged animals : Animals tagged in prior years (at any colony) then given a new tag in 2007 at the Año Nuevo colony. Number of animals tagged by age category and sex; YOY=pup/weaner (young-of-the-year) and Y=yearling. A total of 22 green tags plus 0 PIT tags were deployed on these animals.

age cat	female	male	sex unknown
YOY	0	0	0
Y	0	0	0
juv	1	0	0
SA	0	0	0
ad	19	0	0
Total	20	0	0

Re-tagged animals : Animals tagged in prior years (at any colony) then given a new tag in 2007 at the Año Nuevo colony. Number of animals singly- and doubly-tagged, adults/juveniles. The category 2+ includes a small number with 3 tags (11 were given 3 or more green tags; 0 were given 3 or more PIT tags).

	Green tags	
PIT tags	1	2+
0	2	17
2+	0	1

	Breeding		Breeding Non-breeding	
Year	Sightings	Animals	Sightings	Animals
1999	749	117	11	0
2000	1679	159	48	0
2001	2825	228	56	14
2002	2558	217	101	16
2003	3161	216	22	1
2004	4068	248	144	40
2005	4928	320	1782	291
2006	4271	332	1036	313
2007	2698	220	572	147

Sighting Effort : Number of individual sightings and individual animals identified each year since 1999