

1 **Seasonal occurrence and condition of leopard seals at an extralimital sub-Antarctic island**

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9 **Supplementary Information**

10 **Online Resource 1**

11 **Table I.** Leopard seal sightings at Marion Island between 2006 and 2024. Each sighting was recorded, though only  
12 unique individuals were given an identifying number ('Individual').

Sighting	Date	Site <sup>a</sup>	Individual	Year_ID	Condition	Condition <sup>b</sup> score <sup>b</sup>	Remarks <sup>c</sup>
1	2006/08/17	053	1	2006_1	-	Excellent	1.8 m long.
2	2006/08/28	053	Unsure	-	-	Undetermined	1.5 m long.
3	2006/09/24	025	2	2006_2	-	Excellent	1.5 m long.
4	2007/10/16	003	3	2007_1	0	Excellent	Observed with a fresh scat.
5	2010/09/14	001 & 002	4	2010_1	2	Good <sup>d</sup>	Appears to have a broken jaw. Deep lacerations.
6	2010/09/14	020	5	2010_2	1	Good	
7	2010/10/10	065	6	2010_3	1	Good	Hind flippers damaged.
8	2011/09/07	056	7	2011_1	-	Undetermined	
9	2011/09/08	056	7	2011_1	1	Good	
10	2011/09/11	020	7	2011_1	-	Undetermined	Observed with a fresh scat.
11	2011/09/19	020	7	2011_1	-	Undetermined	
12	2011/09/27	012	8	2011_2	0	Excellent	
13	2011/09/28	056	9	2011_3	-	Undetermined	'Moulting' or missing hair on head and along sides.
14	2013/09/13	001	10	2013_1	-	Undetermined	
15	2013/09/21	018	11	2013_2	0	Excellent	
16	2013/09/23	007	12	2013_3	1	Good	
17	2013/09/24	007	12	2013_3	1	Good	
18	2013/10/27	004	12	2013_3	1	Good	
19	2014/08/22	007	Unsure	-	-	Undetermined	
20	2014/08/23	007	13	2014_1	-	Undetermined	
21	2014/08/31	020	Unsure	-	-	Undetermined	Swimming.
22	2014/09/12	056	14	2014_2	0	Excellent	
23	2014/09/17	051	Unsure	-	-	Undetermined	Swimming.
24	2015/10/24	014	15	2015_1	0	Excellent	
25	2016/08/08	067	16	2016_1	1	Good	

26	2016/09/07	056	17	2016_2	0	Excellent	
27	2016/10/08	012	18	2016_3	1	Good	
28	2016/11/05	017	19	2016_4	-	Undetermined	
29	2016/11/22	018	Unsure	-	-	Undetermined	
30	2017/08/05	068	20	2017_1	-	Undetermined	Swimming.
31	2017/09/17	002	21	2017_2	1	Good	
32	2018/07/30	013	22	2018_1	1	Good	
33	2018/08/05	053	23	2018_2	0	Excellent	
34	2018/08/20	016	23	2018_2	0	Excellent	
35	2018/08/25	056	24	2018_3	-	Undetermined	
36	2019/09/18	016	25	2019_1	1	Good	
37	2019/10/02	016	25	2019_1	1	Good	
38	2021/07/26	011	26	2021_1	0	Excellent	~2 m long.
39	2021/08/17	027	27	2021_2	0	Excellent	Excreting scat with penguin feathers.
40	2021/09/27	068	Unsure	-	-	Undetermined	Swimming.
41	2021/09/29	068	Unsure	-	-	Undetermined	Swimming.
42	2021/10/06	016	28	2021_3	0	Excellent	
43	2022/09/05	025	29	2022_1	1	Good	
44	2022/09/08	065	30	2022_2	1	Good	
45	2022/09/10	068	Unsure	-	-	Undetermined	Swimming.
46	2022/09/11	001	32	2022_3	-	Undetermined	
47	2022/09/13	016	33	2022_4	1	Good	Barnacles on animal and yellow tinge to fur in places.
48	2022/09/15	065	31	2022_5	1	Good	
49	2022/09/22	065	31	2022_5	1	Good	
50	2022/09/27	057	34	2022_6	0	Excellent	
51	2022/10/15	056	34	2022_6	0	Excellent	
52	2022/10/15	065	31	2022_5	1	Good	

53	2022/10/21	065	31	2022_5	1	Good	Wound on shoulder.
54	2022/10/26	068	Unsure	-	NA	Undetermined	Swimming.
55	2023/07/29	020	35	2023_1	0	Excellent	

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- 13 <sup>a</sup>Beach divisions were initially described by Wilkinson et al. (1987) and have since been added to an open access geospatial database by Rudolph et al. (2022).
- 14 <sup>b</sup>Body condition scored according to the number of bony protrusions visible and ranges from 0 (excellent condition) to 5 (severe condition) (Hupman et al. 2020).
- 15 Only seals with suitable side-view photographs were given a body condition score.
- 16 <sup>c</sup>Standard length was estimated for some individuals by some researchers.
- 17 <sup>d</sup>In this individual, the zygomatic arch and pelvic bones were visible, resulting in a body condition score of 2 (good condition). However, the individual had a
- 18 suspected broken jaw and would likely have died soon afterwards.