Supplementary Material

Table S1. Details of samples selected for both species of fur seals.

Antarctic fur seal	Female	Male	*Total*	Sub-Antarctic fur seal	Female	Male	*Total*
Bouvet Island	19	105	124	Amsterdam Island	5	3	*8*
Heard Island	0	6	6	Gough Island	24	51	*75*
Marion Island	8	23	31	Marion Island	22	71	*93*
South Georgia	0	3	3				
Total	*27*	*137*	*164*	*Total*	*51*	*125*	*176*

Table S2. Outliers identified using the Cook's distance and removed from the various models. Numbers correspond to individuals in Table S4.

	Sub-Antarctic fur seal		Antarctic fur seal	
	Female	Male	Female	Male
a) Spatial comparisons				
Total canine length	-	133,158	-	129,276,298
Root length	-	133,158	-	298
Crown length	-	252,261	-	129
Root width	-	133,158,269	-	35,298
Crown width	-	168,223	-	-
Crown thickness	-	-	-	-
Root thickness	-	158	-	298
b) Species, sex and age comparisons				
Total canine length	177	-	316	76
Root length	177	-	316	-
Crown length	-	-	-	78,129
Root width	-	-	-	35,78
Crown width	-	-	-	78
Crown thickness	-	3	-	-
Root thickness	143	-	50	-

Table S3. Details of upper canine teeth used in the comparison of age estimation conducted using external annular ridges and dentinal growth layer group counts. EARage: age estimates using external annular ridge count; GLGage: age estimates using growth layer group count; F: female; M: male.

Species	Sex	EARage	GLGage	Residuals
Antarctic fur seal	F	5.5	3.5	-2.0
	F	3.5	3.5	0.0
	F	4.5	4.5	0.0
	F	3.5	4.0	0.5
	F	12.0	13.0	1.0
	F	4.5	4.0	-0.5
	F	5.5	9.5	4.0
	F	11.0	11.0	0.0
	F	5.5	5.5	0.0
	F	7.0	8.0	1.0
	F	7.5	10.5	3.0
	F	8.0	9.0	1.0
	F	4.5	3.5	-1.0
	M	8.5	8.5	0.0
	M	8.5	8.5	0.0
	M	8.5	8.0	-0.5
	M	8.5	9.0	0.5
	M	9.5	9.5	0.0
	M	8.5	10.5	2.0
	M	8.5	8.0	-0.5
	M	8.5	8.5	0.0
	M	8.5	11.0	2.5
	M	7.5	7.5	0.0

Species	Sex	EARage	GLGage	Residuals
Sub-Antarctic fur seal	F	7.5	7.5	0.0
	F	7.5	7.5	0.0
	F	7.0	8.0	1.0
	F	8.0	7.5	-0.5
	F	10.0	9.5	-0.5
	F	9.5	9.5	0.0
	F	8.5	8.0	-0.5
	F	8.0	8.0	0.0
	F	8.0	7.5	-0.5
	F	7.5	7.5	0.0
	F	8.0	9.5	1.5
	F	7.0	12.0	5.0
	F	8.5	9.0	0.5
	F	9.0	13.0	4.0
	F	9.0	9.0	0.0
	F	9.0	10.0	1.0
	F	12.0	13.0	1.0
	F	14.0	14.0	0.0
	F	12.0	13.0	1.0
	F	5.5	7.5	2.0
	M	8.5	8.5	0.0
	M	8.5	8.0	-0.5
	M	8.5	8.5	0.0
	M	8.5	8.5	0.0
	M	9.5	9.0	-0.5
	M	7.5	7.5	0.0
	M	8.0	7.5	-0.5
	M	10.5	10.0	-0.5
	M	10.0	10.5	0.5
	M	10.0	9.0	-1.0
	M	8.0	7.5	-0.5
	M	10.0	11.5	1.5
	M	7.5	8.5	1.0
	M	9.0	9.0	0.0
	M	8.0	8.5	0.5
	M	8.5	8.5	0.0
	M	8.5	9.5	1.0
	M	8.5	10.5	2.0
	M	10.0	9.5	-0.5
	M	10.5	11.0	0.5

Table S4. Detailed measurements of canines. EAR: external annular ridge count; CL: crown length; RL: root length; CW: crown width; RW: root width; CT: crown thickness; RT: root thickness; TL: total length.

Ind	Species	Island	Sex	EAR	CL	RL	CW	RW	CT	RT	TL
1	tropicalis	Amsterdam	male	11.5	13.34	30.96	9.04	12.12	8.09	11.12	45.96
2	tropicalis	Amsterdam	female	8.5	14.18	19.39	7.66	8.45	6.03	6.85	35.32
3	tropicalis	Amsterdam	male	9.5	19.53	31.68	11.82	14.33	10.66	12.67	51.23
4	tropicalis	Amsterdam	female	10	12.17	24.31	7.57	9.70	6.42	8.61	37.55
5	tropicalis	Amsterdam	female	6.5	13.38	19.68	7.30	8.39	6.21	7.55	33.79
6	tropicalis	Amsterdam	female	6.5	12.42	18.35	6.47	8.21	5.90	7.19	31.75
7	tropicalis	Amsterdam	female	5	13.60	17.11	6.85	8.27	5.80	7.31	31.67
8	tropicalis	Amsterdam	male	11.5	16.08	28.18	10.53	14.57	9.06	13.30	45.61
9	gazella	Bouvet	male	10	15.54	40.22	11.86	16.40	9.55	14.55	58.47
10	gazella	Bouvet	male	9.5	18.43	35.63	12.26	16.30	9.27	14.30	56.52
11	gazella	Bouvet	male	3.5	18.65	22.25	12.24	13.46	9.43	11.23	44.10
12	gazella	Bouvet	male	10.5	18.92	38.14	12.10	15.06	9.68	13.54	60.28
13	gazella	Bouvet	male	6.5	19.19	31.37	12.48	16.04	10.43	14.08	53.65
14	gazella	Bouvet	male	7	19.58	30.28	12.67	15.53	10.33	13.41	53.81
15	gazella	Bouvet	male	9.5	18.97	32.58	12.77	14.62	9.69	12.92	52.71
16	gazella	Bouvet	male	9.5	17.16	34.76	12.37	14.74	9.75	13.03	56.44
17	gazella	Bouvet	male	7.5	19.00	34.89	13.36	16.08	10.40	14.55	57.77
18	gazella	Bouvet	male	9.5	17.91	37.27	12.72	15.72	10.35	13.65	58.40
19	gazella	Bouvet	female	8.5	12.92	21.50	8.27	10.25	6.55	8.25	35.76
20	gazella	Bouvet	male	10	15.96	37.17	12.30	17.34	10.18	15.04	57.01
21	gazella	Bouvet	male	7.5	19.44	29.60	13.17	15.89	10.89	13.66	52.57
22	gazella	Bouvet	male	11.5	16.85	38.97	12.86	16.66	10.57	14.62	58.68
23	gazella	Bouvet	male	9.5	21.74	36.54	13.70	16.31	10.67	15.51	60.50
24	gazella	Bouvet	male	8.5	20.16	33.12	12.71	15.21	10.31	13.66	56.92
25	gazella	Bouvet	male	8	18.87	29.86	12.31	14.38	10.68	13.75	52.20
26	gazella	Bouvet	male	9.5	18.54	36.70	11.27	14.53	9.96	13.82	56.43
27	gazella	Bouvet	male	8.5	18.65	35.27	12.49	17.07	10.26	14.42	54.83
28	gazella	Bouvet	male	7.5	14.23	33.22	11.99	14.58	9.84	13.33	49.33
29	gazella	Bouvet	male	9.5	18.73	31.64	12.57	15.79	9.80	12.82	53.06
30	gazella	Bouvet	male	10.5	18.88	37.14	13.16	16.50	10.43	15.57	59.19
31	gazella	Bouvet	male	8.5	20.61	25.74	12.92	18.03	10.85	14.89	52.39
32	gazella	Bouvet	female	4.5	13.10	17.87	7.18	7.60	5.50	6.00	31.93
33	gazella	Bouvet	male	9.5	13.09	33.33	12.35	16.02	9.00	14.33	48.64
34	gazella	Bouvet	male	7.5	20.47	28.88	13.92	17.41	10.93	13.65	52.49
35	gazella	Bouvet	male	11	19.08	30.26	11.38	10.62	9.47	13.01	52.33
36	gazella	Bouvet	male	10.5	18.89	28.89	13.35	16.31	10.60	14.45	51.24
37	gazella	Bouvet	male	6.5	18.86	29.17	10.73	15.77	8.94	12.28	50.93
38	gazella	Bouvet	male	5	18.84	25.12	12.26	15.96	9.99	13.82	46.68
39	gazella	Bouvet	male	10	16.15	35.12	11.60	15.26	9.71	15.17	52.99
40	gazella	Bouvet	male	9.5	13.28	33.75	12.58	16.09	10.57	15.16	50.82
41	gazella	Bouvet	male	7.5	17.90	29.99	11.25	15.02	9.53	14.30	51.73
42	gazella	Bouvet	male	9	20.06	30.95	12.46	16.10	9.74	14.13	53.27
43	gazella	Bouvet	male	*8*	13.85	35.50	11.41	13.82	8.20	11.20	48.76
44	gazella	Bouvet	female	2	11.61	14.24	7.10	8.87	5.35	6.84	28.53
45	gazella	Bouvet	female	3.5	12.30	14.27	7.15	8.59	5.02	6.23	28.24
46	gazella	Bouvet	male	*8.5*	15.50	31.21	12.46	16.86	9.56	15.07	50.88
47	gazella	Bouvet	male	*8.5*	18.90	39.05	13.08	18.35	10.91	16.30	60.01
48	gazella	Bouvet	male	7.5	19.38	34.37	13.92	17.47	10.61	16.24	56.80
49	gazella	Bouvet	female	4.5	12.57	16.98	7.39	8.78	5.96	7.32	32.35
50	gazella	Bouvet	female	5.5	13.60	11.75	7.69	7.63	4.80	4.60	27.26
51	gazella	Bouvet	male	8.5	19.93	30.97	14.20	15.72	11.64	14.91	54.85
52	gazella	Bouvet	female	5.5	13.16	23.35	7.80	8.50	6.52	7.11	37.76
53	gazella	Bouvet	male	9.5	16.81	37.36	10.30	14.93	9.57	15.09	56.12
54	gazella	Bouvet	male	9.5	18.74	34.30	11.41	17.07	9.90	16.89	56.54
55	gazella	Bouvet	female	7	12.25	22.82	7.43	8.90	6.09	7.47	37.04

Ind	Species	Island	Sex	EAR	CL	RL	CW	RW	CT	RT	TL
56	gazella	Bouvet	male	9.5	17.96	34.76	12.18	17.04	9.87	15.14	58.27
57	gazella	Bouvet	female	4.5	14.56	14.82	7.04	7.74	5.91	6.63	32.93
58	gazella	Bouvet	male	8.5	17.20	28.51	13.00	15.69	11.05	13.58	51.14
59	gazella	Bouvet	male	8.5	19.71	32.94	12.58	14.99	10.03	14.08	55.39
60	gazella	Bouvet	female	4.5	13.10	18.92	6.79	7.82	5.52	6.29	35.24
61	gazella	Bouvet	female	2.5	13.45	11.98	6.87	7.42	5.53	6.33	26.93
62	gazella	Bouvet	female	3.5	11.47	11.47	7.18	7.81	5.88	6.52	28.87
63	gazella	Bouvet	female	2.5	13.82	12.85	7.89	8.89	5.41	5.99	29.39
64	gazella	Bouvet	female	5.5	12.81	18.35	7.49	8.87	5.95	7.37	34.24
65	gazella	Bouvet	male	9.5	20.50	31.38	12.07	17.01	11.75	15.57	56.34
66	gazella	Bouvet	male	8.5	18.27	32.08	13.08	16.26	9.60	13.65	54.11
67	gazella	Bouvet	male	8.5	17.60	28.01	12.13	16.28	11.02	13.56	50.65
68	gazella	Bouvet	male	8.5	20.32	31.83	13.48	17.64	12.25	15.93	57.28
69	gazella	Bouvet	male	7.5	18.90	37.50	10.14	13.77	9.47	14.48	57.33
70	gazella	Bouvet	male	8.5	19.03	29.09	11.80	16.19	10.47	14.67	52.80
71	gazella	Bouvet	male	9.5	14.74	32.73	10.03	14.60	9.17	14.22	51.03
72	gazella	Bouvet	male	10.5	17.40	40.79	13.32	17.51	10.46	16.13	62.56
73	gazella	Bouvet	male	8.5	17.65	31.03	10.75	15.20	9.92	13.51	52.12
74	gazella	Bouvet	male	8.5	13.66	33.62	10.77	14.56	9.53	12.96	50.95
75	gazella	Bouvet	female	*7.5*	13.53	20.48	7.09	9.13	5.73	7.50	35.97
76	gazella	Bouvet	male	1	19.05	8.35	10.98	12.76	9.24	10.41	30.00
77	gazella	Bouvet	male	2.5	20.90	15.73	13.68	16.65	12.12	15.35	42.70
78	gazella	Bouvet	male	2.5	23.23	18.29	16.05	18.41	12.33	15.26	46.45
79	gazella	Bouvet	male	6	20.37	27.53	13.75	15.43	11.26	13.15	50.63
80	gazella	Bouvet	male	6.5	20.28	31.64	13.18	18.19	10.86	15.37	55.12
81	gazella	Bouvet	male	6.5	17.93	31.49	12.53	15.47	10.86	13.53	53.61
82	gazella	Bouvet	male	7.5	17.87	23.44	13.20	15.09	11.11	13.64	47.97
83	gazella	Bouvet	male	7.5	20.50	30.95	13.54	17.62	10.68	15.47	56.86
84	gazella	Bouvet	male	7.5	19.76	32.08	11.63	14.99	9.67	13.94	54.64
85	gazella	Bouvet	male	7.5	20.09	34.12	14.53	17.79	10.58	13.84	58.04
86	gazella	Bouvet	male	7.5	18.98	34.81	12.44	15.60	10.02	13.50	56.77
87	gazella	Bouvet	male	7.5	19.42	28.86	12.71	15.11	10.05	12.81	51.42
88	gazella	Bouvet	male	7.5	19.36	34.44	13.72	17.20	11.30	16.22	57.72
89	gazella	Bouvet	male	8	19.25	32.02	12.22	16.34	9.95	14.24	58.00
90	gazella	Bouvet	male	8.5	19.02	30.19	12.40	15.85	11.18	14.85	51.99
91	gazella	Bouvet	male	8.5	18.12	31.15	13.84	16.05	11.89	14.09	49.92
92	gazella	Bouvet	male	8.5	18.91	32.52	11.73	13.57	9.84	13.43	54.63
93	gazella	Bouvet	male	8.5	17.75	31.16	12.33	15.07	10.21	13.67	52.03
94	gazella	Bouvet	male	8.5	16.80	33.14	10.73	15.61	9.50	14.41	53.13
95	gazella	Bouvet	male	8.5	19.05	36.88	12.33	16.33	10.18	14.12	56.03
96	gazella	Bouvet	male	9	17.10	33.03	11.36	13.45	9.52	12.15	51.47
97	gazella	Bouvet	male	9.5	18.77	32.76	12.02	14.46	9.44	12.58	52.98
98	gazella	Bouvet	male	9.5	17.91	37.32	11.01	15.18	9.56	14.02	60.26
99	gazella	Bouvet	male	9.5	17.53	32.63	12.48	14.25	9.62	13.12	52.93
100	gazella	Bouvet	male	9.5	20.79	32.68	14.21	15.76	12.25	15.10	57.39
101	gazella	Bouvet	male	10.5	18.64	32.63	13.28	17.94	11.30	14.59	56.31
102	gazella	Bouvet	male	11	16.57	38.03	11.85	16.08	10.17	15.25	56.80
103	gazella	Bouvet	male	0.5	21.34	7.17	12.81	13.28	9.85	10.53	32.16
104	gazella	Bouvet	male	2	19.15	15.91	13.61	15.71	10.62	12.52	39.86
105	gazella	Bouvet	male	2.5	17.93	21.69	11.93	15.55	10.36	13.54	44.09
106	gazella	Bouvet	male	3.5	16.41	21.28	11.69	13.08	8.98	10.35	41.24
107	gazella	Bouvet	male	3.5	16.63	21.37	11.75	13.15	9.27	10.34	41.45
108	gazella	Bouvet	male	4	19.40	26.27	12.92	15.57	9.96	13.60	49.52
109	gazella	Bouvet	male	5.5	18.52	27.00	11.64	13.77	9.50	12.60	50.11
110	gazella	Bouvet	male	5.5	19.10	24.60	12.95	15.55	10.06	15.12	47.13
111	gazella	Bouvet	female	6	11.97	19.88	7.60	8.11	5.88	6.36	33.31

Ind	Species	Island	Sex	EAR	CL	RL	CW	RW	CT	RT	TL
112	gazella	Bouvet	male	6.5	19.90	30.34	12.09	13.99	10.94	14.09	54.33
113	gazella	Bouvet	male	6.5	16.73	29.43	11.25	15.49	8.92	12.67	49.19
114	gazella	Bouvet	male	7	21.28	26.06	13.51	17.72	10.60	14.50	51.00
115	gazella	Bouvet	male	7	20.01	33.40	12.86	16.70	10.75	13.16	57.47
116	gazella	Bouvet	male	7	17.85	32.65	12.44	16.63	10.59	13.04	53.28
117	gazella	Bouvet	male	7.5	18.41	29.38	12.42	14.76	9.82	13.90	51.30
118	gazella	Bouvet	male	7.5	17.36	31.31	13.32	15.80	10.71	13.87	52.37
119	gazella	Bouvet	male	7.5	19.87	33.13	14.06	18.01	10.51	15.26	56.44
120	gazella	Bouvet	male	8	21.15	31.96	13.84	16.15	10.79	15.18	57.83
121	gazella	Bouvet	male	8.5	16.95	34.10	11.73	16.33	10.31	16.14	55.47
122	gazella	Bouvet	male	8.5	19.79	25.72	13.52	16.08	10.23	11.64	48.22
123	gazella	Bouvet	male	9.5	18.57	35.11	13.02	16.58	11.42	16.74	57.78
124	gazella	Bouvet	male	9.5	17.55	34.04	12.92	18.02	9.74	14.19	55.37
125	gazella	Bouvet	male	9.5	19.97	33.55	13.53	15.02	10.62	13.16	57.87
126	gazella	Bouvet	male	9.5	20.44	30.98	12.60	17.91	10.84	16.82	53.90
127	gazella	Bouvet	male	9.5	19.96	33.30	13.33	15.13	9.98	13.32	56.65
128	gazella	Bouvet	male	10.5	16.79	31.07	11.56	14.37	9.79	13.01	51.57
129	gazella	Bouvet	male	11.5	22.75	37.17	13.25	16.62	10.86	16.08	64.75
130	tropicalis	Gough	male	5	17.18	21.02	10.11	13.24	8.46	9.85	41.28
131	tropicalis	Gough	female	9.5	13.36	20.43	6.50	8.49	5.19	7.20	34.77
132	tropicalis	Gough	female	8.5	12.71	15.87	6.13	7.29	5.29	6.73	30.51
133	tropicalis	Gough	male	5.5	16.30	17.18	9.43	11.06	7.96	9.55	36.50
134	tropicalis	Gough	female	10	12.38	19.09	6.47	7.97	5.55	6.89	33.77
135	tropicalis	Gough	female	8	13.28	18.74	6.02	6.92	5.28	6.18	33.23
136	tropicalis	Gough	male	8.5	17.20	21.17	9.77	11.59	8.12	8.91	41.14
137	tropicalis	Gough	female	2.5	13.73	13.57	6.19	6.62	5.34	5.77	27.60
138	tropicalis	Gough	male	4.5	15.86	19.75	9.76	11.96	8.53	9.73	36.97
139	tropicalis	Gough	female	8	12.08	19.11	6.49	7.71	5.68	6.62	32.34
140	tropicalis	Gough	female	7	11.97	19.34	6.26	7.01	5.63	6.12	32.43
141	tropicalis	Gough	male	8	15.80	20.05	9.69	13.45	7.86	9.53	38.12
142	tropicalis	Gough	female	9	9.73	18.59	6.58	7.60	5.93	6.90	28.94
143	tropicalis	Gough	female	8	11.24	16.29	6.49	7.48	4.79	4.80	29.20
144	tropicalis	Gough	female	10	13.08	19.39	6.38	7.75	5.27	6.46	33.51
145	tropicalis	Gough	female	7.5	12.05	19.41	5.96	6.96	4.86	5.35	34.42
146	tropicalis	Gough	male	5	19.12	15.61	11.44	12.69	8.91	10.55	37.84
147	tropicalis	Gough	female	8	13.92	17.30	6.31	7.33	5.22	6.32	32.21
148	tropicalis	Gough	female	8.5	12.53	17.82	6.07	7.32	5.33	6.30	32.46
149	tropicalis	Gough	female	7.5	11.06	19.14	6.07	6.85	5.08	6.02	32.03
150	tropicalis	Gough	male	7.5	17.46	25.27	10.31	12.05	8.92	10.82	46.25
151	tropicalis	Gough	female	2	12.18	10.80	6.62	6.85	5.53	5.42	23.54
152	tropicalis	Gough	female	8.5	13.51	21.11	6.70	7.25	5.75	6.39	35.60
153	tropicalis	Gough	female	8.5	13.58	21.90	6.61	8.46	5.39	7.24	36.54
154	tropicalis	Gough	male	8	16.33	27.40	10.57	14.92	8.17	11.46	46.78
155	tropicalis	Gough	female	7.5	14.01	20.44	6.61	7.62	5.38	6.67	36.12
156	tropicalis	Gough	male	9.5	17.30	25.96	9.65	13.29	8.37	10.72	45.51
157	tropicalis	Gough	male	7.5	15.03	19.92	9.41	11.29	8.04	10.51	40.77
158	tropicalis	Gough	male	7.5	17.55	33.26	10.28	16.03	8.18	12.03	52.01
159	tropicalis	Gough	male	8.5	16.00	27.03	9.63	11.99	8.16	10.57	44.55
160	tropicalis	Gough	male	10.5	13.76	26.17	9.59	13.02	8.22	10.78	42.62
161	tropicalis	Gough	male	11.5	14.74	33.40	10.04	14.42	8.29	11.90	48.97
162	tropicalis	Gough	male	10	17.43	25.42	10.85	13.76	9.38	12.05	44.99
163	tropicalis	Gough	male	10	16.93	30.21	10.21	13.34	8.80	12.04	51.16
164	tropicalis	Gough	male	7	16.13	21.03	10.07	12.23	8.26	10.44	40.65
165	tropicalis	Gough	male	10.5	17.09	29.91	10.08	13.81	8.89	11.42	49.38
166	tropicalis	Gough	male	11.5	16.82	22.16	9.95	12.61	8.01	10.04	41.57

Ind	Species	Island	Sex	EAR	CL	RL	CW	RW	CT	RT	TL
167	tropicalis	Gough	male	11.5	16.19	33.66	9.94	11.80	8.30	10.87	50.62
168	tropicalis	Gough	male	11.5	16.64	34.38	11.66	14.61	9.49	12.43	50.80
169	tropicalis	Gough	male	6.5	17.38	19.43	10.25	12.56	8.63	9.94	40.02
170	tropicalis	Gough	male	10.5	17.49	28.96	11.34	14.33	9.06	10.20	47.30
171	tropicalis	Gough	male	12.5	14.25	33.12	9.63	12.75	8.47	10.80	48.58
172	tropicalis	Gough	male	10.5	15.18	28.18	10.46	14.19	8.97	11.47	44.90
173	tropicalis	Gough	male	8.5	14.98	28.35	8.91	12.89	7.77	9.63	45.77
174	tropicalis	Gough	male	10.5	15.05	30.35	9.85	14.61	8.44	10.87	47.71
175	tropicalis	Gough	male	8.5	14.74	27.93	9.04	11.42	7.93	9.18	44.59
176	tropicalis	Gough	male	8.5	17.72	25.50	10.09	12.45	8.58	10.69	44.74
177	tropicalis	Gough	female	1	11.65	6.81	5.86	6.89	5.04	5.64	18.78
178	tropicalis	Gough	female	9.5	11.66	18.97	6.90	8.27	5.88	6.97	31.44
179	tropicalis	Gough	female	5.5	13.01	20.22	6.97	8.96	6.04	7.51	34.53
180	tropicalis	Gough	female	5.5	13.09	19.66	6.69	8.26	5.64	6.81	32.42
181	tropicalis	Gough	male	10.5	16.21	30.58	9.92	13.48	8.90	12.14	48.58
182	tropicalis	Gough	male	7.5	15.22	23.93	9.45	12.74	7.91	10.63	40.79
183	tropicalis	Gough	male	11.5	14.11	28.12	8.68	13.37	7.88	11.06	42.76
184	tropicalis	Gough	male	9.5	15.80	28.13	9.52	12.43	7.82	10.79	44.38
185	tropicalis	Gough	male	9	17.32	29.09	9.87	12.31	8.47	10.39	46.62
186	tropicalis	Gough	male	12.5	15.77	33.77	9.38	12.01	8.27	11.00	49.46
187	tropicalis	Gough	male	11.5	14.70	27.95	9.31	12.46	7.80	9.63	43.24
188	tropicalis	Gough	male	10.5	15.15	28.69	9.70	13.97	8.07	11.72	43.63
189	tropicalis	Gough	male	9.5	16.47	26.46	9.66	11.96	8.14	9.76	43.42
190	tropicalis	Gough	male	8.5	15.05	28.10	9.41	14.21	7.67	10.05	43.77
191	tropicalis	Gough	female	7.5	10.26	18.47	6.06	8.34	5.17	7.37	28.88
192	tropicalis	Gough	male	11.5	16.00	26.31	10.14	14.29	8.64	11.17	43.00
193	tropicalis	Gough	male	13.5	15.06	29.15	9.30	13.67	7.78	11.65	44.68
194	tropicalis	Gough	male	9.5	16.65	25.43	10.48	13.75	8.69	11.76	42.26
195	tropicalis	Gough	male	11.5	18.49	29.36	10.87	14.74	9.41	12.24	48.21
196	tropicalis	Gough	male	10.5	16.41	25.51	8.86	11.10	7.79	10.48	42.51
197	tropicalis	Gough	male	14.5	14.55	27.13	9.15	14.03	7.37	12.08	42.28
198	tropicalis	Gough	female	3.5	11.83	13.69	6.71	7.36	5.78	5.99	26.60
199	tropicalis	Gough	male	6.5	16.75	21.97	11.21	13.91	9.01	10.54	39.10
200	tropicalis	Gough	male	11.5	16.61	27.94	9.97	13.11	8.69	11.28	44.57
201	tropicalis	Gough	male	11.5	13.68	30.66	9.30	12.83	7.72	10.93	45.49
202	tropicalis	Gough	male	9.5	15.53	27.86	9.60	12.60	7.98	9.95	42.86
203	tropicalis	Gough	male	13.5	14.46	32.84	8.83	11.95	7.63	9.60	47.27
204	tropicalis	Gough	male	11.5	14.94	27.49	9.21	11.94	8.05	10.43	44.98
205	gazella	Heard	male	10.5	16.59	33.25	10.92	14.35	9.44	13.58	52.11
206	gazella	Heard	male	9.5	16.17	32.60	13.09	16.58	9.32	14.24	50.17
207	gazella	Heard	male	7.5	17.19	30.06	13.59	17.43	9.45	14.30	49.92
208	gazella	Heard	male	7.5	18.00	30.60	11.87	15.26	8.94	13.03	51.67
209	gazella	Heard	male	9.5	21.33	32.45	13.29	17.22	10.82	16.09	54.59
210	gazella	Heard	male	9	16.03	33.45	12.23	16.90	9.97	16.59	52.06
211	tropicalis	Marion	male	9	17.09	28.14	9.89	12.26	8.69	11.11	46.11
212	tropicalis	Marion	male	7.5	15.80	21.22	9.62	12.66	8.04	10.37	38.57
213	tropicalis	Marion	male	8.5	16.24	25.96	10.24	12.22	8.53	10.39	44.68
214	tropicalis	Marion	female	9	11.95	21.32	6.68	8.72	5.62	7.27	34.22
215	tropicalis	Marion	male	9.5	17.40	28.15	9.86	12.49	8.67	11.35	47.45
216	tropicalis	Marion	male	10.5	14.91	31.14	9.08	12.15	8.15	11.23	47.19
217	tropicalis	Marion	male	10.5	14.50	27.68	8.59	12.73	7.39	11.18	44.06
218	tropicalis	Marion	male	6.5	16.20	22.15	10.22	11.24	8.22	8.92	40.90
219	tropicalis	Marion	male	8.5	15.82	28.54	9.28	13.26	7.82	11.53	44.33
220	tropicalis	Marion	male	8	16.47	28.13	10.16	12.46	8.49	11.24	46.75
221	tropicalis	Marion	female	5.5	12.84	19.25	6.48	7.67	5.31	6.19	33.08
222	tropicalis	Marion	male	10.5	15.43	31.23	9.74	13.75	8.68	12.72	47.51
223	tropicalis	Marion	male	10.5	17.18	28.89	11.83	14.13	9.70	12.70	48.01
224	tropicalis	Marion	male	8.5	16.80	29.75	9.80	12.70	8.59	11.53	48.17
225	tropicalis	Marion	male	8.5	16.18	25.18	9.40	12.32	7.85	10.18	44.08
226	tropicalis	Marion	female	8	11.66	19.23	6.60	7.53	5.49	6.71	31.77
227	tropicalis	Marion	male	10	17.80	28.11	10.91	13.86	9.23	12.32	47.47
228	tropicalis	Marion	male	7.5	15.81	23.44	9.88	12.39	8.45	11.04	41.00
229	tropicalis	Marion	male	8.5	16.23	27.84	10.38	14.02	9.08	12.03	45.61
230	tropicalis	Marion	male	9.5	15.75	24.54	10.54	12.85	9.20	10.64	41.78
231	tropicalis	Marion	male	8.5	14.57	29.39	9.95	14.33	8.01	11.51	45.15
232	tropicalis	Marion	male	8.5	14.60	25.48	9.31	13.29	8.16	11.35	42.60
233	tropicalis	Marion	male	9	15.08	26.45	9.54	13.51	8.28	11.10	43.85
234	tropicalis	Marion	male	11	17.78	27.75	9.98	12.59	7.99	10.73	47.53
235	tropicalis	Marion	male	9	17.10	24.96	10.99	12.76	8.66	11.01	43.41
236	tropicalis	Marion	male	8	15.87	26.32	9.10	11.67	7.47	9.78	43.88
237	tropicalis	Marion	female	7	11.75	18.90	6.09	8.08	5.13	7.22	32.98

Ind	Species	Island	Sex	EAR	CL	RL	CW	RW	CT	RT	TL
238	tropicalis	Marion	male	8	15.09	25.71	9.44	11.46	7.95	9.29	42.31
239	tropicalis	Marion	female	9	11.75	20.35	6.73	8.64	5.39	7.69	32.84
240	tropicalis	Marion	male	10.5	13.00	30.96	8.59	12.83	7.46	10.55	44.13
241	tropicalis	Marion	male	8.5	15.08	23.53	9.54	12.11	8.37	10.40	42.45
242	tropicalis	Marion	male	8.5	15.98	26.25	9.37	10.79	8.19	9.73	43.97
243	tropicalis	Marion	male	6	13.68	23.50	8.77	12.46	7.94	11.00	38.28
244	tropicalis	Marion	female	8.5	11.62	19.91	6.88	8.72	5.70	7.30	32.57
245	tropicalis	Marion	female	6.5	10.02	20.66	5.93	7.74	4.97	6.60	30.82
246	tropicalis	Marion	male	10	16.13	25.11	9.37	12.22	8.22	10.95	43.12
247	tropicalis	Marion	male	8.5	15.76	25.41	9.68	13.10	8.54	10.14	43.17
248	tropicalis	Marion	male	9.5	15.45	27.81	10.60	13.93	9.44	11.90	44.27
249	tropicalis	Marion	male	1.5	18.16	10.89	11.28	11.91	8.18	8.70	30.65
250	tropicalis	Marion	female	4.5	12.19	16.67	6.79	7.80	5.35	6.26	31.69
251	tropicalis	Marion	female	6.5	12.01	21.11	6.33	7.39	5.45	6.41	32.99
252	tropicalis	Marion	male	10	11.59	31.07	9.49	12.55	7.91	9.85	43.29
253	tropicalis	Marion	male	9.5	15.41	26.10	10.49	13.66	8.66	10.94	43.38
254	tropicalis	Marion	male	7.5	18.80	27.02	10.88	12.77	8.60	9.87	48.10
255	tropicalis	Marion	male	8.5	18.05	23.70	10.72	13.72	9.25	11.92	42.71
256	tropicalis	Marion	male	7.5	17.02	23.28	10.52	13.04	7.89	10.20	43.56
257	tropicalis	Marion	male	8.5	17.49	28.11	10.98	14.01	9.50	11.14	47.02
258	tropicalis	Marion	male	7.5	17.11	24.30	11.01	12.61	9.06	10.82	41.60
259	tropicalis	Marion	male	7.5	13.73	21.58	9.39	12.29	7.70	10.03	38.19
260	tropicalis	Marion	male	7	14.67	22.96	9.62	12.78	7.72	8.97	39.26
261	tropicalis	Marion	male	8.5	11.13	27.55	9.60	13.77	8.10	10.99	40.35
262	tropicalis	Marion	male	7.5	16.06	27.91	10.56	12.65	7.76	9.93	44.66
263	tropicalis	Marion	male	11.5	14.48	35.09	9.70	13.04	8.19	11.29	49.94
264	tropicalis	Marion	male	9.5	13.74	26.39	9.94	14.10	8.58	11.52	43.82
265	tropicalis	Marion	male	6.5	16.33	22.54	10.71	10.65	8.90	10.67	42.32
266	tropicalis	Marion	male	7	17.26	23.66	10.52	11.89	8.57	10.73	43.22
267	tropicalis	Marion	male	8.5	14.85	27.41	9.71	11.64	8.35	10.61	43.52
268	tropicalis	Marion	male	7	17.57	24.30	10.67	12.04	8.71	10.72	43.50
269	tropicalis	Marion	male	5.5	17.35	23.49	10.79	14.10	8.98	10.19	43.45
270	tropicalis	Marion	female	8.5	12.18	21.52	6.53	8.23	5.65	7.77	35.56
271	tropicalis	Marion	female	8.5	10.83	22.76	6.48	8.43	5.61	7.41	34.26
272	tropicalis	Marion	female	6	13.57	16.06	7.48	8.38	6.27	7.70	30.27
273	gazella	Marion	male	8.5	18.65	29.90	12.50	14.69	9.35	12.76	52.30
274	gazella	Marion	male	8.5	19.84	28.61	13.00	16.06	9.71	14.69	53.87
275	gazella	Marion	male	6.5	18.60	26.10	12.00	15.10	9.59	13.73	48.23
276	gazella	Marion	male	9.5	15.95	25.46	12.63	16.12	10.51	13.89	44.82
277	gazella	Marion	male	7.5	16.17	28.10	10.67	13.90	9.12	12.83	45.97
278	gazella	Marion	male	8	19.94	28.91	14.72	17.46	11.52	14.96	50.34
279	gazella	Marion	male	9.5	17.11	30.76	10.69	13.11	9.66	13.28	47.83
280	tropicalis	Marion	male	2.5	15.05	13.16	9.81	9.87	8.10	7.91	28.53
281	tropicalis	Marion	male	10.5	15.71	24.89	9.84	13.01	8.03	10.82	40.61
282	tropicalis	Marion	female	6.5	11.48	20.03	6.66	7.01	5.81	6.58	31.50
283	tropicalis	Marion	male	7.5	15.94	23.28	8.94	10.74	7.89	8.67	39.60
284	tropicalis	Marion	male	8.5	17.01	27.38	10.52	12.93	9.23	12.02	44.16
285	tropicalis	Marion	male	9.5	14.65	26.02	8.65	11.91	7.64	9.40	41.45
286	gazella	Marion	male	5.5	18.75	25.29	13.25	15.77	10.46	12.41	44.58
287	gazella	Marion	female	7.5	12.03	20.52	7.54	9.45	5.73	7.79	33.50
288	gazella	Marion	male	10.5	21.74	30.50	12.36	15.31	9.96	14.07	54.00
289	gazella	Marion	female	6.5	13.04	20.17	6.87	8.35	5.92	6.81	34.43
290	gazella	Marion	male	7.5	18.91	31.40	12.77	14.87	9.98	12.61	52.86
291	gazella	Marion	male	9.5	18.89	30.55	12.62	15.34	10.32	13.94	52.32
292	gazella	Marion	male	6.5	20.55	28.99	12.68	16.22	10.00	13.70	51.99

Ind	Species	Island	Sex	EAR	CL	RL	CW	RW	CT	RT	TL
294	tropicalis	Marion	female	7	11.35	20.29	6.63	7.81	5.66	6.77	32.10
295	tropicalis	Marion	female	7.5	12.15	17.62	6.77	6.78	5.52	5.91	30.31
296	tropicalis	Marion	male	11.5	16.67	30.66	9.32	12.06	8.40	10.17	46.73
297	gazella	Marion	female	7.5	12.38	23.48	7.19	9.01	5.77	7.27	37.32
298	gazella	Marion	male	8.5	20.93	37.02	14.49	20.37	11.51	17.17	59.47
299	gazella	Marion	male	8	18.51	26.45	13.20	15.68	10.57	14.22	49.52
300	gazella	Marion	female	2	13.95	11.78	6.76	7.75	5.71	6.39	26.14
301	tropicalis	Marion	male	10.5	15.02	24.92	9.07	11.78	8.02	9.52	40.30
302	gazella	Marion	female	2.5	12.67	12.04	7.20	8.76	6.17	7.18	27.15
303	gazella	Marion	male	11.5	17.36	34.60	12.71	17.16	9.78	14.50	53.65
304	gazella	Marion	female	4.5	11.43	16.48	7.06	7.81	5.33	6.46	30.56
305	gazella	Marion	male	9.5	19.23	32.52	11.07	14.47	9.37	13.17	51.12
306	gazella	Marion	male	5.5	19.41	24.27	12.22	13.29	9.91	11.79	44.60
307	gazella	Marion	male	9.5	19.69	27.57	13.78	17.42	10.25	14.05	49.67
308	tropicalis	Marion	male	10.5	14.80	28.10	9.43	11.46	8.34	10.05	44.30
309	tropicalis	Marion	male	10.5	16.76	22.07	10.54	12.93	8.98	11.64	39.32
310	tropicalis	Marion	female	5.5	11.52	20.52	7.01	8.02	5.74	6.36	33.04
311	tropicalis	Marion	male	10.5	15.61	30.31	9.96	12.85	8.67	11.89	47.13
312	tropicalis	Marion	male	11.5	16.38	25.92	9.34	12.46	8.51	10.97	42.49
313	tropicalis	Marion	male	10.5	17.76	29.07	9.63	11.67	8.14	9.96	46.61
314	tropicalis	Marion	male	10.5	16.40	26.18	10.15	12.12	8.08	9.72	43.45
315	gazella	Marion	female	1.5	14.42	6.83	7.88	8.48	6.41	6.77	23.49
316	gazella	Marion	female	0.5	12.98	4.24	6.76	6.79	5.05	5.06	16.95
317	tropicalis	Marion	male	6.5	14.43	21.16	9.47	11.74	7.77	9.06	36.56
318	gazella	Marion	male	8.5	19.23	24.70	13.08	14.48	10.38	12.47	47.13
319	gazella	Marion	male	10.5	20.40	29.69	12.22	13.34	9.61	11.96	51.41
320	gazella	Marion	male	1.5	19.49	9.77	11.92	12.34	9.79	10.62	33.09
321	gazella	Marion	male	7.5	18.59	28.19	12.09	14.45	9.54	12.37	49.34
322	tropicalis	Marion	male	8.5	17.30	27.36	9.92	12.63	8.42	10.63	46.51
323	tropicalis	Marion	male	8.5	13.35	24.39	10.11	12.42	8.60	11.07	39.24
324	tropicalis	Marion	male	9.5	15.53	28.36	9.14	12.86	8.34	11.22	44.31
325	tropicalis	Marion	male	10.5	15.71	27.89	10.07	14.51	9.01	12.01	44.76
326	tropicalis	Marion	male	9.5	14.94	30.01	10.48	14.62	8.35	11.45	46.36
327	gazella	SGeorgia	male	6.5	18.26	31.37	12.12	16.35	10.28	13.74	52.50
328	gazella	SGeorgia	male	7.5	18.16	27.68	12.09	14.09	9.79	13.38	47.78
329	gazella	SGeorgia	male	8.5	19.14	36.08	13.23	16.80	10.73	14.54	57.33
330	tropicalis	Marion	male	1.5	17.09	11.13	10.22	10.43	8.89	9.89	28.88

Table S5. Generalised linear model outcomes of the spatial comparison for Sub-Antarctic and Antarctic fur seal canine tooth measurements. EAR: age estimated using external annular ridge count.

	Sub-Antarctic fur seal				Antarctic fur seal			
	Estimate	Std. Error	t value	Pr (>|t|)	Estimate	Std. Error	t value	Pr (>|t|)
a) Total length								
(intercept)	35.260	1.692	20.838	**< 0.001**	45.349	1.756	25.827	**< 0.001**
Island Marion	-0.146	0.540	-0.270	0.787	-3.969	0.694	-5.716	**< 0.001**
EAR	0.966	0.172	5.634	**< 0.001**	1.054	0.204	5.166	**< 0.001**
b) Root length								
(intercept)	13.223	1.474	8.974	**< 0.001**	21.111	1.571	13.436	**< 0.001**
Island Marion	0.691	0.481	1.438	0.153	-3.591	0.614	-5.847	**< 0.001**
EAR	1.416	0.152	9.335	**< 0.001**	1.344	0.183	7.328	**< 0.001**
c) Crown length								
(intercept)	17.046	0.752	22.671	**< 0.001**	0.558	0.082	6.834	**< 0.001**
Island Marion	-0.244	0.243	-1.007	0.316	-0.045	0.031	-1.439	0.153
EAR	-0.099	0.076	-1.304	0.195	0.017	0.010	1.782	0.077
d) Root width								
(intercept)	11.307	0.614	18.410	**< 0.001**	15.022	0.718	20.929	**< 0.001**
Island Marion	-0.263	0.190	-1.381	0.170	-0.625	0.284	-2.199	**0.030**
EAR	0.182	0.062	2.936	**0.004**	0.105	0.083	1.271	0.206
e) Crown width								
(intercept)	10.562	0.384	27.506	**< 0.001**	12.851	0.585	21.973	**< 0.001**
Island Marion	-0.044	0.123	-0.357	0.722	0.178	0.235	0.759	0.450
EAR	-0.073	0.039	-1.861	0.066	-0.041	0.067	-0.617	0.538
f) Crown thickness								
(intercept)	8.045	0.314	25.659	**< 0.001**	10.465	0.429	24.381	**< 0.001**
Island Marion	0.055	0.101	0.542	0.589	-0.183	0.170	-1.081	0.282
EAR	0.033	0.032	1.030	0.305	-0.023	0.049	-0.464	0.644
g) Root thickness								
(intercept)	8.487	0.500	16.966	**< 0.001**	12.385	0.633	19.568	**< 0.001**
Island Marion	0.179	0.164	1.090	0.278	-0.784	0.252	-3.114	**0.002**
EAR	0.235	0.051	4.587	**< 0.001**	0.214	0.073	2.924	**0.004**

Table S6. Generalised linear model outcomes of the species, sex and age comparisons for the seven canine tooth measurements. EAR: age estimated using external annular ridge count; CL: crown length; RL: root length; CW: maximum crown width; RW: maximum root width; CT: maximum crown thickness; RT: maximum root thickness; TCL: total canine length; GM: Antarctic fur seal male; GF: Antarctic fur seal female; TM: Sub-Antarctic fur seal male; TF: Sub-Antarctic fur seal female.

	Estimate	Std. Error	t value	Pr(>|t|)	posthoc	Estimate	Std. Error	z value	Pr(>|z|)
Model : TCL ~ Sex * Species * EAR					Sexmale:Sptropical				
(Intercept)	23.435	1.094	21.425	**< 0.001**	GM - GF	20.967	0.7587	27.636	**< 0.001**
Sptropical	2.295	1.680	1.366	0.173	TF - GF	0.6778	0.7786	0.871	0.818
Sexmale	14.379	1.550	9.275	**< 0.001**	TM - GF	12.078	0.7288	16.572	**< 0.001**
EAR	1.731	0.230	7.518	**< 0.001**	TF - GM	-20.2892	0.6303	-32.191	**< 0.001**
Sptropical:Sexmale	-8.502	2.274	-3.740	**< 0.001**	TM - GM	-8.889	0.5676	-15.661	**< 0.001**
Sptropical:EAR	-0.822	0.289	-2.851	**0.005**	TM - TF	11.4002	0.594	19.193	**< 0.001**
Sexmale:EAR	0.105	0.268	0.391	0.696					
Sptropical:Sexmale:EAR	0.327	0.340	0.962	0.337					
Model : RL ~ Sex * Species * EAR					Sexmale:Sptropical				
(Intercept)	7.621	1.553	4.907	**< 0.001**	GM - GF	14.098	1.062	13.277	**< 0.001**
Sptropical	5.338	2.352	2.269	**0.024**	TF - GF	2.319	1.213	1.912	0.212
Sexmale	6.287	1.826	3.443	**< 0.001**	TM - GF	9.705	1.070	9.071	**< 0.001**
EAR	1.896	0.301	6.305	**< 0.001**	TF - GM	-11.780	0.817	-14.426	**< 0.001**
Sptropical:Sexmale	-6.659	2.776	-2.399	**0.017**	TM - GM	-4.393	0.584	-7.521	**< 0.001**
Sptropical:EAR	-1.071	0.382	-2.807	**0.005**	TM - TF	7.387	0.827	8.933	**< 0.001**
Sexmale:EAR	0.201	0.322	0.625	0.533					
Sptropical:Sexmale:EAR	0.493	0.416	1.183	0.238					
Model : CL ~ Sex * Species + EAR					Sexmale:Sptropical				
(Intercept)	1.059	0.019	55.319	**< 0.001**	GM - GF	-0.277	0.018	-15.231	**< 0.001**
Sexmale	-0.301	0.019	-15.538	**< 0.001**	TF - GF	0.020	0.021	0.978	0.753
Sptropical	0.003	0.021	0.126	0.900	TM - GF	-0.127	0.018	-6.943	**< 0.001**
EAR	0.007	0.002	3.253	**0.001**	TF - GM	0.297	0.014	21.038	**< 0.001**
Sexmale:Sptropical	0.140	0.023	6.090	**< 0.001**	TM - GM	0.150	0.010	14.679	**< 0.001**
					TM - TF	-0.147	0.014	-10.317	**< 0.001**
Model : RW ~ Sex * Species + EAR					Sexmale:Sptropical				
(Intercept)	7.591	0.174	43.718	**< 0.001**	GM - GF	7.372	0.188	39.102	**< 0.001**
Sexmale	6.754	0.196	34.538	**< 0.001**	TF - GF	-0.576	0.178	-3.231	**0.007**
Sptropical	-1.005	0.178	-5.658	**< 0.001**	TM - GF	4.427	0.178	24.917	**< 0.001**
EAR	0.173	0.024	7.188	**< 0.001**	TF - GM	-7.928	0.154	-51.535	**< 0.001**
Sexmale:Sptropical	-2.092	0.223	-9.375	**< 0.001**	TM - GM	-2.925	0.153	-19.111	**< 0.001**
					TM - TF	5.003	0.141	35.483	**< 0.001**
Model : CW ~ Sex * Species					Sexmale:Sptropical				
(Intercept)	7.301	0.106	69.002	**< 0.001**	GM - GF	5.212	0.171	30.448	**< 0.001**
Sexmale	5.212	0.130	39.975	**< 0.001**	TF - GF	-0.733	0.195	-3.749	**< 0.001**
Sptropical	-0.733	0.127	-5.787	**< 0.001**	TM - GF	2.619	0.172	15.191	**< 0.001**
Sexmale:Sptropical	-1.860	0.161	-11.574	**< 0.001**	TF - GM	-5.944	0.133	-44.709	**< 0.001**
					TM - GM	-2.593	0.096	-27.009	**< 0.001**
					TM - TF	3.352	0.135	24.910	**< 0.001**
Model : CT ~ Sex * Species					Sexmale:Sptropical				
(Intercept)	5.737	0.080	71.608	**< 0.001**	GM - GF	4.467	0.134	33.350	**< 0.001**
Sexmale	4.467	0.100	44.722	**< 0.001**	TF - GF	-0.202	0.153	-1.322	0.536
Sptropical	-0.202	0.098	-2.063	**0.040**	TM - GF	2.633	0.135	19.492	**< 0.001**
Sexmale:Sptropical	-1.632	0.126	-12.971	**< 0.001**	TF - GM	-4.669	0.104	-44.896	**< 0.001**
					TM - GM	-1.834	0.075	-24.395	**< 0.001**
					TM - TF	2.835	0.105	26.884	**< 0.001**
Model : RT ~ Sex * Species + EAR					Sexmale:Sptropical				
(Intercept)	5.790	0.149	38.904	**< 0.001**	GM - GF	7.179	0.177	40.487	**< 0.001**
Sexmale	6.413	0.174	36.870	**< 0.001**	TF - GF	-0.041	0.167	-0.244	0.995
Sptropical	-0.583	0.157	-3.723	**< 0.001**	TM - GF	3.965	0.164	24.164	**< 0.001**
EAR	0.217	0.021	10.331	**< 0.001**	TF - GM	-7.220	0.150	-48.068	**< 0.001**
Sexmale:Sptropical	-2.845	0.199	-14.301	**< 0.001**	TM - GM	-3.214	0.147	-21.852	**< 0.001**
					TM - TF	4.006	0.134	29.821	**< 0.001**

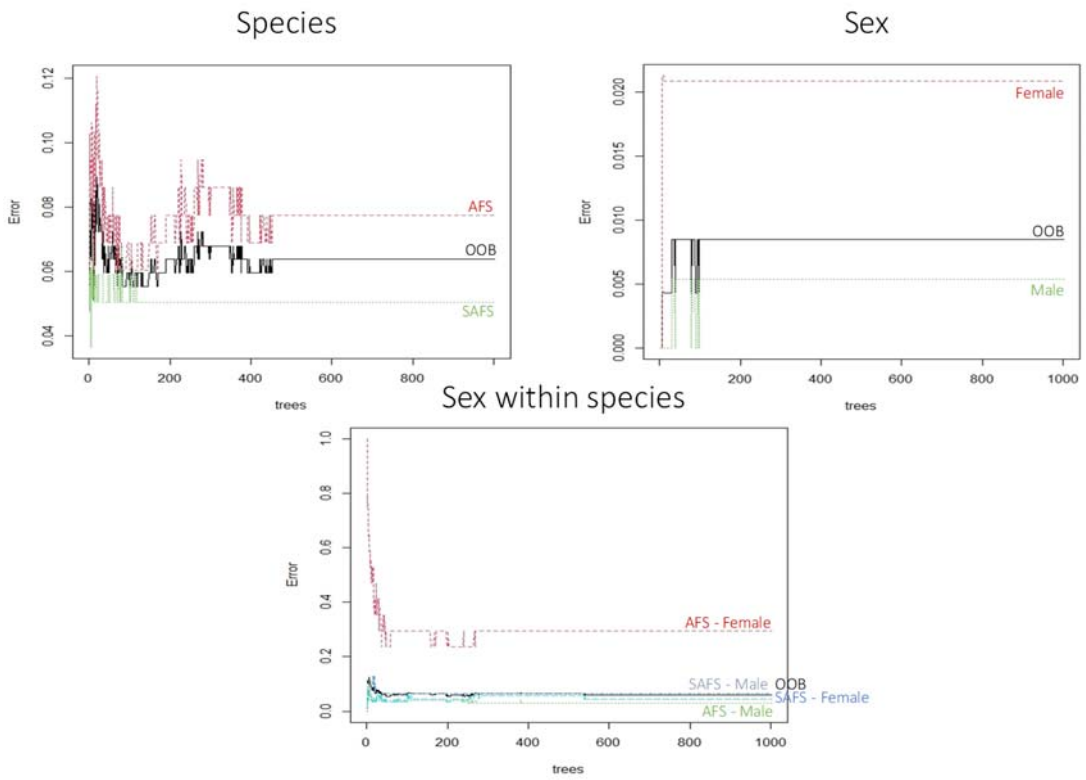

Figure S1. Convergence of the three models using the random forest algorithm. Black: out-of-bag error; colours: various groups (Species: Antarctic fur seal [AFS] and Sub-Antarctic fur seal [SAFS]; Sex: female and male; Sex within species: Antarctic fur seal [AFS] females and males, Sub-Antarctic fur seal [SAFS] females and males).