

APPENDIX 1

Onset date, mean monthly air temperature and day length at first egg laying in Giant Petrels (*Macronectes* spp.);

NGP = Northern Giant Petrel (*M. halli*), SGP = Southern Giant Petrel (*M. giganteus*), ND = no data

Breeding location (position) ^a	Species	Date first egg laid	Day length (hrs)	Mean monthly air temperature (°C)	Data sources
Ile Amsterdam (37°50'S, 077°33'W)	NGP	24 th Aug.	10.98	11.4	Demay <i>et al.</i> 2014
Gough Island (40°10'S, 004°45'W)	SGP	25 th Aug.	10.55	8.9	Voisin & Bester 1981
Northern Patagonia (45°00'S, 065°29'W)	SGP	24 th Oct.	13.88	9.0	Copello & Quintana 2009
Possession Island (46°24'S, 051°46'E)	SGP	26 th Sept.	12.23	3.3	Voisin 1968, 1988
	NGP	16 th Aug.	10.18	3.2	

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Marion Island (46°45'S, 037°44'E)	SGP	16 th Sept.	11.78	3.8	Cooper <i>et al.</i> 2001
	NGP	10 th Aug.	9.95	3.7	
Isles Kerguelen (49°21'S, 070°13'E)	NGP	25 th Sept.	12.3	2.5	Milon & Jouanin 1953
	SGP	ND			
Antipodes Island (49°41'S, 178°48'E)	NGP	27 th Aug.	10.55	6.0	Warham & Bell 1979
Falkland Islands (52°08'S, 059°50'W)	SGP	27 th Oct.	14.43	6.9	Johnstone <i>et al.</i> 1976
Heard Island (53°04'S, 073°30'E)	SGP	20 th Oct.	14.0	0.0	Downes <i>et al.</i> 1959
South Georgia (54°03'S, 038°36'W)	SGP	25 th Oct.	14.53	1.3	Brown <i>et al.</i> 2015
	NGP	18 th Sept.	11.87	0.0	

Macquarie Island (54°35'S, 158°55'E)	SGP	27 th Sept.	12.62	3.5	Johnstone 1978
	NGP	11 th Aug.	9.2	3.4	
Signy Island (60°32'S, 045°30'E)	SGP	04 th Nov.	16.21	-1.0	Conroy 1972
King George Island (62°01'S, 058°15'W)	SGP	31 st Oct.	16.66	-1.7	Sierakowski <i>et al.</i> 2017
Anvers Island (64°33'S, 063°35'W)	SGP	~04 th Nov.	19.23	0.0	See footnote on page 22 in Conroy 1972
Nelly Island (66°14'S, 110°10'E)	SGP	20 th Oct.	15.57	-8.0	Otovic <i>et al.</i> 2018
Dumont d'Urville (66°40'S, 140°01'E)	SGP	20 th Oct.	15.63	-13.2	Mougin 1968
Hawker Island (68°35'S, 077°50'E)	SGP	19 th Oct.	15.9	-9.0	Otovic <i>et al.</i> 2018

^a Data listed according to colony latitude.