

Combined stomach content, lipid and stable isotope analyses reveal spatial and trophic partitioning among three sympatric albatrosses from the Southern Ocean

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Supplement. Detailed list of references gathered for the potential prey lipid database (Table S1) and for the summary of trophic ecology studies conducted worldwide on the 3 albatross species (Table S2).

Table S1. Lipid database reference list

Species	Reference
<i>Electrona carlsbergi</i> , <i>Gymnoscopelus nicholsi</i> , <i>Protomyctophum bolini</i>	Connan et al. 2010
<i>Coryphaenoides armatus</i>	Drazen et al. 2009
<i>Champocephalus gunnari</i> , <i>Electrona subaspera</i> , <i>Gymnoscopelus piabilis</i> , <i>G. fraseri</i> , <i>Protomyctophum tenisoni</i>	Lea et al. 2002
<i>Euphausia superba</i> , <i>E. vallentini</i>	Mayzaud pers. comm.
<i>Euphausia vallentini</i>	Mayzaud et al. 2003
<i>Themisto gaudichaudii</i>	Nelson et al. 2001
<i>Bathylagus antarcticus</i> , <i>Galiteuthis glacialis</i> , <i>Gonatus antarcticus</i> , <i>Histioteuthis eltaninae</i> , <i>Kondakovia longimana</i> , <i>Loligo gahi</i> , <i>Moroteuthis knipovitchi</i> , <i>M. robsoni</i> , <i>Martalia hyadesi</i> , <i>Mastigoteuthis</i> sp., <i>Mesonychoteuthis hamiltoni</i> , <i>Phosichthys argenteus</i> , <i>Psychroteuthis glacialis</i> , <i>Stomias boa boa</i> , <i>Todarodes</i> sp.	Newland et al. 2009
<i>Moroteuthis ingens</i>	Phillips et al. 2001
<i>Moroteuthis robsoni</i>	Phillips et al. 2002
<i>Moroteuthis ingens</i>	Phillips et al. 2003
<i>Euphausia triacantha</i> , <i>Themisto gaudichaudii</i>	Phleger et al. 1998
<i>Gymnoscopelus opisthopterus</i>	Phleger et al. 1999a
<i>Pagothenia borchgrevinki</i> , <i>Trematomus bernacchii</i> , <i>T. hansonii</i> , <i>T. newnesi</i> , <i>T. pennellii</i>	Phleger et al. 1999b
<i>Lampichthys procerus</i> , <i>Metelectrona ventralis</i>	Raclot et al. 1998
<i>Paradiplospinus gracilis</i> , <i>Protomyctophum choriodon</i>	Stowasser et al. 2009a
<i>Nansenia antarctica</i> , <i>Protomyctophum gemmatum</i>	Stowasser et al. 2009b
<i>Antimora rostrata</i>	Stowasser et al. 2012
<i>Dissostichus eleginoides</i> , <i>D. mawsoni</i>	Wilson 2004

Table S2. Summary of all studies conducted on the trophic ecology of grey-headed, light-mantled sooty and sooty albatrosses across the Southern Ocean (most of references before 1985 are from Berruti 1977 and Ridoux 1994)

	Island groups	Stomach contents		Stable isotopes		Reference
		Prey remains	Oils	Blood	Feathers	
Grey-headed albatross	Marion	X	X	X	X	Present study
	Marion	X	X	X		Richoux et al. 2010
	Marion				X	Cherel et al. 2012
	Marion	X				Brooke & Klages 1986*, Hunter & Klages 1989, Nel et al. 2000, Nel et al. 2001
	Campbell				X	Cherel et al. 2012
	South Georgia				X	Phillips et al. 2009, Cherel et al. 2012
	South Georgia			X	X	Anderson et al. 2009
	South Georgia			X		Phillips et al. 2011
	Campbell	X				Waugh et al. 1999
	Crozet	X				Weimerskirch et al. 1986, Ridoux 1994
Diego Ramirez	X				Arata et al. 2004	
Kerguelen	X				Cherel et al. 2002	
South Georgia	X				Tickell 1964, Prince 1980, Marchant & Higgins 1990, Rodhouse et al. 1990, Reid et al. 1996, Croxall et al. 1997, Xavier et al. 2003a, Xavier et al. 2003b, Catry et al. 2004, Xavier et al. 2005*, Xavier & Croxall 2007*	
Light-mantled sooty albatross	Marion	X	X	X	X	Present study
	Marion	X				Berruti 1977*, Berruti & Harcus 1978*, Cooper & Klages 1995
	Marion				X	Cherel et al. 2012
	Campbell		X			Warham et al. 1976
	Crozet				X	Jaeger et al. 2010, Cherel et al. 2012
	Kerguelen				X	Cherel et al. 2012
	South Georgia				X	Phillips et al. 2009, Cherel et al. 2012
	Campbell	X				Sorenson 1950, Bailey & Sorenson 1962
	Crozet	X				Mougin 1970, Weimerskirch et al. 1986, Ridoux 1994
	Heard	X				Downes et al. 1959, Green et al. 1998
Kerguelen	X				Falla 1937	
Macquarie	X				Green et al. 1998	
South Georgia	X				Murphy 1936, Thomas 1982	
Sooty albatross	Marion	X	X	X	X	Present study
	Marion	X				Berruti 1977*, Berruti & Harcus 1978*, Cooper & Klages 1995
	Marion				X	Cherel et al. 2012
	Amsterdam				X	Cherel et al. 2012
	Crozet				X	Jaeger et al. 2010, Cherel et al. 2012
	Gough				X	Cherel et al. 2012
	Amsterdam	X				Segonzac 1972
	Crozet	X				Ridoux 1994
Tristan	X				Hagen 1952, Richardson 1984	

* casts analysis

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