

ELECTRONIC APPENDIX

This is the Electronic Appendix to the article

**Stable isotopes, beaks and predators:
a new tool to study the trophic ecology of cephalopods,
including giant and colossal squids**

by

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Electronic appendices are refereed with the text; however, no attempt is made to impose a uniform editorial style on the electronic appendices.

Annex 1. Cephalopod species, predator species and locations, and the isotopic signature of cephalopod tissues.

Study and species	Provenance		Isotopic signature					
	Predator or bycatch	Location	Tissue	n	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)		
CONTROL INDIVIDUALS								
<i>Psychroteuthis glacialis</i>	Emperor penguin	Adélie Land	Lower beaks	10	7.1 ± 1.1	-24.9 ± 0.3		
			Upper beaks	10	6.8 ± 1.1	-24.9 ± 0.3		
			Buccal masses	10	9.8 ± 1.0	-26.3 ± 0.3		
			Arms	10	10.9 ± 1.1	-25.5 ± 0.3		
ONTOGENIC CHANGES								
<i>Moroteuthis ingens</i>	Fishery bycatch	Kerguelen	Medium beaks	10	4.1 ± 0.8	-19.5 ± 0.5		
			Large beaks	10	5.9 ± 0.2	-19.5 ± 0.4		
			King penguin	Crozet	Medium beaks	10	4.6 ± 0.5	-19.6 ± 0.7
			Wandering albatross	Crozet	Large beaks	10	6.1 ± 0.2	-20.0 ± 0.4
<i>Kondakovia longimana</i>	King penguin	Crozet	Small beaks	9	1.5 ± 1.0	-21.1 ± 0.8		
			Medium beaks	10	3.0 ± 0.7	-21.7 ± 0.9		
			Wandering albatross	Crozet	Large beaks	10	5.5 ± 0.5	-23.1 ± 1.1
<i>Kondakovia longimana</i>	Wandering albatross	Crozet	Lower beak rostrums	10	5.3 ± 0.6	-23.2 ± 1.5		
			Lateral walls	10	6.3 ± 0.4	-22.7 ± 1.5		
			Wings	10	6.7 ± 0.6	-22.5 ± 1.4		
			<i>Benthoctopus thielei</i>	Fishery bycatch	Kerguelen	Lower beak rostrums	10	3.1 ± 1.4
Lateral walls	10	5.1 ± 0.9				-19.1 ± 0.4		
Wings	10	7.9 ± 0.6				-18.7 ± 0.4		
COMMUNITY								
<i>Architeuthis dux</i>	Sleeper shark	Kerguelen	Beaks	4	6.7 ± 1.3	-17.4 ± 0.3		
<i>Mesonychoteuthis hamiltoni</i>	Sleeper shark	Kerguelen	Beaks	10	11.4 ± 0.8	-19.7 ± 1.4		
<i>Martialia hyadesi</i>	King penguin	Kerguelen	Beaks	10	2.8 ± 0.6	-20.2 ± 0.5		
<i>Todarodes</i> sp.	Grey-headed albatross	Kerguelen	Beaks	10	3.4 ± 0.8	-19.7 ± 0.4		
<i>Moroteuthis ingens</i>	Patagonian toothfish	Kerguelen	Beaks	5	5.3 ± 1.1	-19.5 ± 0.7		
<i>Moroteuthis knipovitchi</i>	Patagonian toothfish	Kerguelen	Beaks	5	6.2 ± 0.4	-20.8 ± 0.5		
<i>Moroteuthis</i> sp. B (Imber)	Patagonian toothfish	Kerguelen	Beaks	10	6.0 ± 0.6	-19.3 ± 0.4		
<i>Kondakovia longimana</i>	Patagonian toothfish	Kerguelen	Beaks	3	4.3 ± 1.1	-20.4 ± 0.5		
<i>Brachioteuthis linkovskyi</i>	Patagonian toothfish	Kerguelen	Beaks	10	5.3 ± 0.8	-20.0 ± 0.5		
<i>Slosarczykovia circumantarctica</i>	Patagonian toothfish	Kerguelen	Beaks	10	4.0 ± 0.5	-25.1 ± 0.3		
<i>Gonatus antarcticus</i>	Patagonian toothfish	Kerguelen	Beaks	10	8.4 ± 0.5	-20.2 ± 0.8		
<i>Taningia danae</i>	Patagonian toothfish	Kerguelen	Beaks	3	6.7 ± 0.1	-20.0 ± 0.4		
<i>Histioteuthis eltaninae</i>	Patagonian toothfish	Kerguelen	Beaks	10	5.5 ± 0.7	-20.0 ± 0.4		
<i>Nototeuthis dimegacotyle</i>	Patagonian toothfish	Kerguelen	Beaks	10	6.6 ± 0.4	-19.5 ± 0.7		
<i>Mastigoteuthis psychrophila</i>	Patagonian toothfish	Kerguelen	Beaks	10	8.0 ± 0.6	-20.3 ± 0.6		
<i>Chiroteuthis veranyi</i>	Patagonian toothfish	Kerguelen	Beaks	10	8.0 ± 1.3	-19.2 ± 0.6		
<i>Benthoctopus thielei</i>	Fishery bycatch	Kerguelen	Beaks	10	5.2 ± 0.6	-19.1 ± 0.4		
<i>Graneledone gonzalezi</i>	Fishery bycatch	Kerguelen	Beaks	10	5.9 ± 0.4	-19.3 ± 0.4		
<i>Psychroteuthis glacialis</i>	Emperor penguin	Adélie Land	Beaks	5	6.5 ± 0.7	-24.9 ± 0.3		
Octopodidae sp.	Fishery	Amsterdam	Beaks	4	9.7 ± 0.6	-16.5 ± 0.4		