

Table S1. Summary of long-finned pilot whale (*Globicephala melas edwardii*) skin samples used for carbon and nitrogen stable isotope analysis ($n = 125$), by year and location of stranding event on the New Zealand coast. The number of animals stranded at each event (No. stranded), and the total number included in isotope analysis (No. sampled) are reported. Sex and reproductive group are taken from the same *G. m. edwardii* population [60,61].

Date	Location	No. sampled/ No. stranded	Sex	Reproductive Group	<i>n</i>
December 2009	Farewell Spit	20/105	M	Immature	5
			M	Mature	5
			F	Immature	5
			F	Pregnant	2
			F	Lactating	0
			F	Resting	0
			F	Undetermined mature	3
November 2011	Farewell Spit	20/65	M	Immature	5
			M	Mature	5
			F	Immature	4
			F	Pregnant	2
			F	Lactating	2
			F	Resting	2
			F	Undetermined mature	0
January 2014	Farewell Spit	27/138	M	Immature	5
			M	Mature	5
			F	Immature	4
			F	Pregnant	5
			F	Lactating	5
			F	Resting	3
			F	Undetermined mature	0
January 2017	Farewell Spit	20/>400	M	Immature	5
			M	Mature	5
			F	Immature	5
			F	Pregnant	1
			F	Lactating	0
			F	Resting	1
			F	Undetermined mature	3
February 2010	Stewart Island	19/28	M	Immature	7
			M	Mature	2
			F	Immature	2
			F	Pregnant	5
			F	Lactating	0
			F	Resting	0
			F	Undetermined mature	3
February 2011	Stewart Island	19/107	M	Immature	4
			M	Mature	5
			F	Immature	5
			F	Pregnant	2
			F	Lactating	2
			F	Resting	1
			F	Undetermined mature	0