The following supplement accompanies the article

Intra-population variation in isotopic niche in herring-eating killer whales off Iceland

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Table S1. Details of all samples used in the study. Samples are ordered by Whale ID, an alphanumeric code corresponding to an unpublished photo-identification catalogue. Movement patterns denote if the whale is known to date to move between Icelandic summer-spawning herring overwintering and spawning grounds throughout the year (A), only encountered in one location (B) or between Iceland in winter and Scotland in summer (C). The actual location and season of the sampling are given as Grund./Winter for Grundarfjörður and Kolgrafafjörður (herring overwintering grounds) and as Vestm./ Summer for Vestmannaeyjar (herring spawning grounds). Sex class is given as Male (M) or Female (F). Storage is denoted as Ethanol (E) or frozen (F).

Sample no.	Whale ID	Movement patterns	Location/Season	Sex	Date (dd/mm/yyyy)	Storage	δ^{13} C (‰)	δ^{15} N (‰)
1	IS010	B	Vestm./Summer	M	17/07/2014	F	-16.92	13.58
2	IS028	A	Vestm./Summer	M	07/07/2014	F	-17.80	12.76
3	IS045	A	Grund./Winter	F	06/03/2014	F	-17.59	12.95
4	IS047	A	Grund./Winter	M	24/02/2014	F	-17.69	13.06
5	“	“	Vestm./Summer	“	21/07/2014	F	-17.50	13.01
6	IS062	A	Vestm./Summer	F	16/07/2014	F	-18.09	12.49
7	IS067	A	Vestm./Summer	M	07/07/2014	F	-17.55	12.64
8	IS068	A	Vestm./Summer	M	07/07/2014	F	-17.35	13.17
9	IS069	B	Vestm./Summer	F	13/07/2014	F	-17.64	12.88
10	IS078	A	Grund./Winter	M	29/03/2014	F	-17.93	12.99
11	IS098	A	Vestm./Summer	F	15/07/2014	F	-17.97	12.47
12	IS104	A	Grund./Winter	F	31/03/2014	F	-18.05	12.70
13	IS117	A	Vestm./Summer	M	24/07/2014	F	-17.44	13.00
14	IS122	A	Vestm./Summer	M	06/07/2014	F	-17.85	12.78
15	IS125	A	Grund./Winter	M	10/03/2013	E	-17.48	13.04

Sample no.	Whale ID	Movement patterns	Location/Season	Sex	Date (dd/mm/yyyy)	Storage	δ^{13} C (‰)	δ^{15} N (‰)
16	IS136	B	Grund./Winter	M	31/03/2014	F	-17.75	13.76
17	IS139	A	Vestm./Summer	M	15/07/2014	F	-17.89	13.00
18	“		“	“	24/07/2014	F	-17.79	12.61
19	IS143	A	Grund./Winter	M	29/03/2014	F	-18.20	13.05
20	“	“	Vestm./Summer	“	15/07/2014	F	-17.51	13.10
21	IS151	B	Grund./Winter	M	22/03/2014	F	-17.85	13.57
22	“	“	“	“	22/03/2014	F	-17.87	13.47
23	IS152	B	Grund./Winter	F	28/03/2014	F	-18.02	13.12
24	IS154	A	Vestm./Summer	F	25/07/2014	F	-17.74	13.08
25	IS155	A	Vestm./Summer	M	25/07/2014	F	-17.80	12.78
26	IS159	A	Vestm./Summer	M	17/07/2014	F	-18.07	12.82
27	IS164	B	Grund./Winter	M	10/03/2013	E	-17.49	13.30
28	IS169	A	Grund./Winter	M	28/03/2014	F	-17.77	12.73
29	IS172	C	Grund./Winter	M	28/03/2014	F	-17.81	14.04
30	IS174	B	Grund./Winter	F	25/03/2014	F	-18.00	12.66
31	IS183	A	Vestm./Summer	M	10/07/2014	F	-17.46	13.00
32	IS197	A	Grund./Winter	M	10/03/2013	E	-17.41	13.41
33	IS204	B	Grund./Winter	M	11/03/2013	E	-17.54	13.42
34	IS211	A	Vestm./Summer	M	15/07/2014	F	-17.47	12.67
35	IS229	B	Grund./Winter	M	24/02/2014	F	-17.99	14.09
36	IS230	A	Grund./Winter	F	11/03/2013	E	-18.04	13.20
37	IS241	B	Grund./Winter	M	13/02/2014	F	-17.25	15.06
38	IS243	B	Grund./Winter	M	13/02/2014	F	-17.64	14.41
39	IS251	B	Vestm./Summer	M	07/07/2014	F	-18.40	13.01
40	IS253	B	Vestm./Summer	F	06/07/2014	F	-18.33	15.05
41	“		“	“	07/07/2014	F	-18.47	14.82
42	IS254	B	Vestm./Summer	M	17/07/2014	F	-18.14	12.99
43	IS256	B	Vestm./Summer	M	07/07/2014	F	-18.54	14.07
44	IS257	A	Vestm./Summer	F	06/07/2014	F	-17.76	12.61

Sample no.	Whale ID	Movement patterns	Location/Season	Sex	Date (dd/mm/yyyy)	Storage	δ^{13} C (‰)	δ^{15} N (‰)
45	“	“	“	“	08/07/2014	F	-17.86	12.83
46	“	“	“	“	16/07/2014	F	-18.09	12.70
47	IS262	A	Vestm./Summer	F	25/07/2014	F	-17.38	12.87
48	“		“	“	27/07/2014	F	-17.77	12.62
49	IS267	A	Grund./Winter	M	29/03/2014	F	-17.49	13.39
50	“	“	Vestm./Summer	“	15/07/2014	F	-17.65	13.13
51	IS271	B	Vestm./Summer	F	06/07/2014	F	-17.72	13.04
52	IS274	B	Grund./Winter	F	31/03/2014	F	-18.00	13.13
53	IS279	A	Grund./Winter	F	29/03/2014	F	-18.31	12.94
54	IS280	A	Vestm./Summer	M	24/07/2014	F	-17.79	13.10
55	IS288	B	Vestm./Summer	F	14/07/2014	F	-18.34	12.77
56	IS306	A	Vestm./Summer	M	15/07/2014	F	-17.39	12.86
57	0603	B	Vestm./Summer	M	22/07/2014	F	-17.59	12.70
58	0701	A	Grund./Winter	M	06/03/2014	F	-17.82	12.66
59	9021	B	Vestm./Summer	M	06/07/2014	F	-17.52	12.98
60	9118	A	Grund./Winter	M	11/03/2013	E	-17.74	13.44
61	9459	B	Vestm./Summer	M	10/07/2014	F	-18.15	12.71
62	9530	A	Grund./Winter	M	10/03/2013	E	-17.49	12.87
63	9706	B	Vestm./Summer	M	14/07/2014	F	-17.74	12.80
64	9706	“	Vestm./Summer	M	22/07/2014	F	-17.55	12.77
65	993	C	Grund./Winter	M	13/02/2014	F	-17.65	15.01
66	“	“	“	“	23/02/2014	F	-17.56	15.02
67	997	C	Grund./Winter	F	10/03/2013	E	-17.80	13.71

Figure S1. Killer whales 997 and IS172 (top) consuming a grey seal (*Halychoerus grypus*) in Fair Isle, Scotland, in July 2016. Photographs by Sam Hood and kindly provided by Sam Hood and David Parnaby of the Fair Isle Bird Observatory (http://www.fairislebirdobs.co.uk/)