

The following supplement accompanies the article

Inter-annual variability in diet of non-breeding pelagic seabirds *Puffinus* spp. at migratory staging areas: evidence from stable isotopes and fatty acids

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Supplement 1. *Puffinus gravis* and *P. griseus*. Major fatty acids (wt% of total fatty acids) in plasma from greater (GRSH) and sooty (SOSH) shearwaters, and from 3 of their potential prey items (herring *Clupea harengus*, krill *Meganyctiphanes norvegica*, and squid *Illex illecebrosus*), separated by year. Values are mean \pm standard error

Species	Year (n)	14:0	16:0	16:1n-7	16:2n-6	16:3n-4	16:4n-3	18:0	18:1n-11	18:1n-9
GRSH	2005 (26)	9.96 \pm 0.27	27.02 \pm 0.25	9.30 \pm 0.22	1.3 \pm 0.09	2.06 \pm 0.13	1.76 \pm 0.09	20.75 \pm 0.33	5.42 \pm 0.29	20.72 \pm 0.38
	2006 (52)	9.55 \pm 0.25	26.65 \pm 0.18	8.96 \pm 0.15	0.73 \pm 0.09	1.82 \pm 0.09	1.28 \pm 0.11	21.63 \pm 0.27	1.49 \pm 0.41	20.84 \pm 0.23
	2007 (34)	9.51 \pm 0.57	26.08 \pm 0.21	9.95 \pm 0.14	0	1.76 \pm 0.08	0.80 \pm 0.07	20.85 \pm 0.35	3.24 \pm 0.41	19.50 \pm 0.27
SOSH	2005 (3)	10.82 \pm 0.85	25.88 \pm 0.45	9.41 \pm 0.79	1.16 \pm 0.05	1.99 \pm 0.24	1.86 \pm 0.17	19.47 \pm 1.70	5.46 \pm 0.46	18.83 \pm 0.82
	2006 (7)	11.10 \pm 0.38	26.80 \pm 0.51	9.46 \pm 0.14	1.02 \pm 0.29	1.99 \pm 0.15	1.41 \pm 0.26	20.35 \pm 0.51	1.71 \pm 0.91	19.94 \pm 0.77
	2007 (5)	7.34 \pm 2.53	26.25 \pm 0.25	10.69 \pm 0.15	0	1.88 \pm 0.2	1.08 \pm 0.19	19.93 \pm 0.87	4.50 \pm 0.85	19.12 \pm 0.68
Herring	2005 (21)	16.64 \pm 0.20	22.05 \pm 0.27	13.53 \pm 0.22	1.21 \pm 0.11	2.99 \pm 0.12	1.68 \pm 0.14	6.23 \pm 0.11	3.21 \pm 0.24	14.70 \pm 0.33
	2006 (13)	17.06 \pm 0.16	21.69 \pm 0.37	12.54 \pm 0.29	1.13 \pm 0.06	3.08 \pm 0.17	2.09 \pm 0.11	6.92 \pm 0.32	3.98 \pm 0.23	14.75 \pm 0.36
	2007 (23)	16.80 \pm 0.09	20.83 \pm 0.22	13.57 \pm 0.19	0	3.88 \pm 0.2	1.77 \pm 0.06	5.53 \pm 0.11	4.40 \pm 0.43	13.15 \pm 0.35
Krill	2005 (7)	12.16 \pm 0.81	25.40 \pm 0.30	10.15 \pm 0.57	1.9 \pm 0.08	2.13 \pm 0.27	2.98 \pm 0.17	7.44 \pm 0.19	2.18 \pm 0.40	18.56 \pm 0.18
	2006 (7)	15.25 \pm 0.13	24.36 \pm 0.13	14.64 \pm 0.21	1.45 \pm 0.08	2.96 \pm 0.3	1.85 \pm 0.07	9.23 \pm 0.18	1.36 \pm 0.36	17.59 \pm 0.09
	2007 (7)	15.29 \pm 0.78	23.48 \pm 0.19	13.86 \pm 0.84	0	3.88 \pm 0.27	1.36 \pm 0.14	7.21 \pm 0.09	2.33 \pm 0.15	17.14 \pm 0.31
Squid	2007 (9)	11.69 \pm 0.36	26.58 \pm 0.46	8.22 \pm 0.61	0	1.58 \pm 0.27	0.98 \pm 0.09	10.58 \pm 0.28	3.58 \pm 0.32	13.66 \pm 0.42

Species	Year	18:2n-6	18:3n-4	18:3n-3	18:4n-3	20:1n-11	20:1n-9	20:3n-6	20:4n-6	20:4n-3
GRSH	2005 (26)	5.99±0.06	0.08±0.06	3.28±0.15	4.53±0.21	7.56±0.21	11.41±0.40	2.23±0.24	11.31±0.56	3.75±0.25
	2006 (52)	6.48±0.11	0.91±0.07	3.31±0.08	4.82±0.16	7.61±0.26	10.01±0.30	2.70±0.27	12.85±0.46	4.92±0.37
	2007 (34)	6.71±0.10	1.06±0.05	3.45±0.10	5.04±0.20	9.23±0.18	13.81±0.30	1.71±0.07	11.62±0.31	3.02±0.09
SOSH	2005 (3)	5.65±0.12	0	3.63±0.34	5.25±0.85	7.90±0.32	12.08±1.86	2.21±0.43	9.54±1.34	4.99±1.23
	2006 (7)	6.21±0.22	0.76±0.20	3.63±0.17	5.73±0.32	7.63±1.43	11.07±0.73	3.09±1.15	11.49±0.56	5.87±0.83
	2007 (5)	6.29±0.11	1.25±0.05	3.66±0.14	5.84±0.28	9.24±0.46	13.55±0.52	1.70±0.24	10.33±0.67	3.47±0.15
Herring	2005 (21)	6.08±0.07	0.43±0.10	5.14±0.09	9.33±0.16	4.51±0.19	20.64±0.45	0.34±0.11	3.10±0.04	3.57±0.25
	2006 (13)	6.53±0.14	0.78±0.13	5.73±0.27	10.41±0.63	5.51±0.37	19.88±0.64	0.51±0.16	2.98±0.18	4.01±0.18
	2007 (23)	5.95±0.12	3.62±0.50	7.55±0.50	5.43±0.77	6.32±0.43	22.65±0.31	0.92±0.07	2.49±0.05	3.82±0.07
Krill	2005 (7)	7.96±0.07	0.34±0.22	6.27±0.09	9.15±0.61	3.61±0.17	8.79±0.70	0.24±0.24	5.69±0.18	3.89±0.22
	2006 (7)	6.50±0.05	1.16±0.21	4.64±0.08	10.25±0.27	3.63±0.67	13.23±0.28	1.65±0.29	4.82±0.18	3.84±0.21
	2007 (7)	7.04±0.15	3.17±0.92	6.73±0.60	4.08±1.41	5.24±0.23	12.48±0.36	1.77±0.12	5.82±0.08	3.38±0.24
Squid	2007 (9)	4.60±0.22	1.22±0.27	3.07±0.43	4.75±0.36	5.41±0.29	16.48±0.69	0.97±0.14	4.84±0.17	2.70±0.36

Species	Year	20:5n-3	22:1n-11	22:1n-9	22:5n-3	22:6n-3
GRSH	2005 (26)	22.34±0.48	11.12±0.57	2.60±0.22	5.70±0.09	16.40±0.39
	2006 (52)	21.38±0.38	9.96±0.42	2.53±0.23	5.35±0.09	17.77±0.20
	2007 (34)	22.73±0.36	12.22±0.48	2.78±0.15	6.91±0.37	16.07±0.21
SOSH	2005 (3)	22.06±1.47	12.42±2.89	2.44±0.86	5.25±0.68	15.82±1.54
	2006 (7)	22.80±0.34	12.06±1.09	2.90±0.74	5.48±0.15	16.22±0.37
	2007 (5)	24.24±0.23	11.83±1.15	2.60±0.31	5.93±0.47	17.20±1.77
Herring	2005 (21)	17.10±0.33	24.76±0.48	5.25±0.15	5.08±0.10	17.26±0.39
	2006 (13)	15.13±0.54	26.79±0.65	5.24±0.10	4.97±0.13	17.24±0.45
	2007 (23)	15.64±0.24	26.82±0.33	5.98±0.08	4.49±0.30	15.54±0.26
Krill	2005 (7)	22.73±0.31	7.99±0.87	3.16±0.20	5.86±0.20	24.81±0.86
	2006 (7)	22.75±0.43	12.26±0.80	4.12±0.11	4.54±0.18	20.08±0.12
	2007 (7)	23.96±0.23	14.10±0.45	3.92±0.06	4.00±0.05	21.20±0.81
Squid	2007 (9)	20.76±0.29	13.70±1.04	4.18±0.17	4.31±0.15	29.73±1.03