

**Comparative Muscle Physiology of Ringed (*Pusa hispida*),
Bearded (*Erignathus barbatus*), and Spotted (*Phoca largha*)
Seals from the Bering and Chukchi Seas**

Supplemental Table

Mariah L. Tengler,^{1,2} Jennifer Dearolf,³ Anna L. Bryan,⁴
Colleen Reichmuth,⁵ and Nicole M. Thometz¹

¹Department of Biology, University of San Francisco, 2130 Fulton Street, San Francisco, CA 94117, USA
E-mail: nthometz@usfca.edu

²The Marine Mammal Center, 2000 Bunker Road, Sausalito, CA 94965, USA

³Biology Department, Hendrix College, 1600 Washington Avenue, Conway, AR 72032, USA

⁴Alaska Department of Fish and Game, 1300 College Road, Fairbanks, AK 99701, USA

⁵Institute of Marine Sciences, Long Marine Laboratory, University of California at Santa Cruz,
115 McAllister Way, Santa Cruz, CA 95060, USA

Table S1. Muscle physiology parameters measured for individual seals (myoglobin content ([Mb]), nonbicarbonate buffering capacity (β), fiber diameters, and percentage fast-twitch fibers) with associated metadata (individual, date collected, collection location, species, standard length [SL], age class, and sex).

Individual	Date collected	Collection location	Species	SL (cm)	Age class	Sex	[Mb] (g 100 g wet tissue ⁻¹)	β (slykes)	Diameter (μm)		Fast-twitch fibers (%)
									Fast-twitch	Slow-twitch	
EB16PH014	4 June 2016	Point Hope	Bearded	171.0	Subadult	M	3.21	77.59	31.2	32.9	66.3
EB16PH016	4 June 2016	Point Hope	Bearded	213.5	Adult	F	4.79	77.97	57.2	49.8	59.5
EB16PH017	5 June 2016	Point Hope	Bearded	183.0	Subadult	F	4.00	73.93	36.7	36.8	72.5
EB16PH020	5 June 2016	Point Hope	Bearded	226.0	Adult	M	4.13	78.28	39.9	42.2	75.3
EB16PH021	5 June 2016	Point Hope	Bearded	178.0	Subadult	F	4.07	81.49	36.3	29.8	76.5
EB16PH022	5 June 2016	Point Hope	Bearded	144.7	Pup	F	3.11	74.29	42.9	44.6	55.4
EB16PH024	6 June 2016	Point Hope	Bearded	213.5	Adult	F	3.87	80.46	49.9	49.5	80.3
EB17PH001	3 June 2017	Point Hope	Bearded	223.0	Adult	F	4.91	73.85	29.2	26.7	59.7
EB17PH002	3 June 2017	Point Hope	Bearded	215.0	Adult	M	5.21	76.30	48.8	41.3	69.0
EB17PH003	1 June 2017	Point Hope	Bearded	227.0	Adult	M	4.45	77.66	--	--	--
EB17PH008	1 June 2017	Point Hope	Bearded	209.0	Adult	F	4.84	82.24	58.1	53.8	70.3
EB17PH009	2 June 2017	Point Hope	Bearded	209.5	Adult	F	4.49	75.44	48.4	40.0	70.5
EB17PH021	2 June 2017	Point Hope	Bearded	182.0	Subadult	M	4.30	71.90	41.3	35.9	64.7
EB17PH022	1 June 2017	Point Hope	Bearded	212.0	Adult	F	3.89	72.20	--	--	--
EB17PH030	3 June 2017	Point Hope	Bearded	135.0	Pup	M	3.52	64.98	30.0	26.8	63.0
EB17PH031	3 June 2017	Point Hope	Bearded	200.0	Subadult	M	4.91	75.07	47.8	40.6	70.6
EB17PH032	3 June 2017	Point Hope	Bearded	139.0	Pup	F	3.21	68.26	--	--	--
EB17PH033	3 June 2017	Point Hope	Bearded	225.0	Adult	M	4.31	72.57	46.4	44.6	74.3
EB17PH035	4 June 2017	Point Hope	Bearded	217.0	Adult	F	4.16	79.79	61.5	54.4	68.0
EB17PH036	5 June 2017	Point Hope	Bearded	223.0	Adult	F	4.78	83.26	--	--	--
EB17PH037	4 June 2017	Point Hope	Bearded	210.0	Adult	M	4.25	81.75	43.5	41.3	66.2
EB17PH038	4 June 2017	Point Hope	Bearded	213.0	Adult	M	5.07	83.62	46.6	36.5	71.7
EB17PH043	5 June 2017	Point Hope	Bearded	217.5	Adult	F	5.02	86.47	47.4	44.0	69.9
EB17PH044	2 June 2017	Point Hope	Bearded	184.0	Subadult	F	4.25	81.50	--	--	--
EB17PH045	5 June 2017	Point Hope	Bearded	170.0	Subadult	F	4.20	81.96	31.6	34.0	63.5
EB17PH046	5 June 2017	Point Hope	Bearded	219.5	Adult	M	4.96	82.01	49.0	42.5	67.1
EB17PH047	5 June 2017	Point Hope	Bearded	222.0	Adult	M	4.32	80.76	52.7	47.2	64.1
EB17PH066	6 June 2017	Point Hope	Bearded	210.0	Adult	F	4.86	81.43	51.1	41.1	63.7
EB18PH010	22 May 2018	Point Hope	Bearded	233.0	Adult	M	4.60	84.17	--	--	--
EB18PH011	22 May 2018	Point Hope	Bearded	184.0	Adult	F	4.78	81.30	--	--	--
EB18PH012	23 May 2018	Point Hope	Bearded	208.0	Adult	M	4.65	73.01	--	--	--

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EB18PH013	22 May 2018	Point Hope	Bearded	213.0	Adult	F	4.53	82.78	--	--	--
EB18PH015	22 May 2018	Point Hope	Bearded	204.0	Adult	F	4.73	87.35	--	--	--
EB18PH016	23 May 2018	Point Hope	Bearded	189.0	Adult	M	4.50	87.07	--	--	--
EB18PH017	23 May 2018	Point Hope	Bearded	194.0	Subadult	F	4.29	89.58	--	--	--
EB18PH019	23 May 2018	Point Hope	Bearded	204.0	Adult	M	4.62	90.56	--	--	--
EB19PH035	30 May 2019	Point Hope	Bearded	201.0	Subadult	M	4.17	83.75	--	--	--
EB19PH037	30 May 2019	Point Hope	Bearded	220.3	Adult	F	3.81	82.12	--	--	--
EB19PH038	30 May 2019	Point Hope	Bearded	214.0	Adult	F	4.45	84.23	--	--	--
EB19PH042	30 May 2019	Point Hope	Bearded	134.2	Pup	F	3.29	69.44	--	--	--
EB1401	25 March 2016	Captive	Bearded	161.0	Subadult	M	4.30	67.48	43.7	38.4	70.2
PH16PH002	3 June 2016	Point Hope	Ringed	83.7	Pup	F	4.79	71.75	19.1	26.3	50.4
PH17GAM033	1 July 2017	Gambell	Ringed	62.5	Pup	M	3.21	50.06	16.1	18.1	60.2
PH17PH001	5 June 2017	Point Hope	Ringed	83.0	Pup	M	5.90	75.97	--	--	--
PH18SH013	24 Oct 2018	Shishmaref	Ringed	138.0	Adult	M	6.83	85.01	37.2	36.6	68.7
PH18SH021	14 Oct 2018	Shishmaref	Ringed	120.0	Adult	F	6.90	85.71	46.5	45.7	54.0
PH18SH022	27 Oct 2018	Shishmaref	Ringed	92.0	Pup	M	4.95	80.34	27.5	28.4	66.7
PH18SH034	5 Nov 2018	Shishmaref	Ringed	98.0	Pup	F	5.92	84.17	31.2	31.4	44.5
PH18SH035	5 Nov 2018	Shishmaref	Ringed	90.0	Pup	M	5.71	84.72	37.2	36.9	48.5
PH18SH051	5 Nov 2018	Shishmaref	Ringed	120.0	Adult	M	6.28	82.40	38.7	37.3	54.1
PH18SH052	4 Nov 2018	Shishmaref	Ringed	95.0	Pup	M	5.77	75.83	27.1	28.4	51.6
PH18SH053	4 Nov 2018	Shishmaref	Ringed	112.0	Subadult	F	6.57	84.36	40.0	35.1	56.0
PL16BRW001	14 Aug 2016	Barrow	Spotted	112.0	Pup	M	5.17	74.50	35.0	38.4	64.5
PL17GAM007	1 July 2017	Gambell	Spotted	65.5	Pup	F	2.55	62.51	29.3	36.6	46.8
PL18SH019	14 Sept 2018	Shishmaref	Spotted	157.0	Adult	F	5.49	75.79	42.6	36.5	54.7
PL18SH023	13 Sept 2018	Shishmaref	Spotted	141.0	Adult	F	4.90	78.57	28.8	25.3	61.1
PL18SH032	12 Sept 2018	Shishmaref	Spotted	171.0	Adult	F	5.58	76.34	26.7	25.3	52.3
PL18SH040	12 Sept 2018	Shishmaref	Spotted	135.0	Subadult	M	6.01	80.36	--	--	--
PL18SH049	11 Sept 2018	Shishmaref	Spotted	127.0	Subadult	M	5.61	87.36	25.8	24.1	55.7
PL18SH056	23 Oct 2018	Shishmaref	Spotted	133.0	Subadult	F	4.68	85.39	--	--	--
PL18SH062	19 Sept 2018	Shishmaref	Spotted	111.0	Pup	F	3.87	68.47	--	--	--
PL18SH064	9 Oct 2018	Shishmaref	Spotted	149.0	Subadult	F	5.43	77.52	35.8	35.9	50.8
PL18SH065	7 Oct 2018	Shishmaref	Spotted	147.0	Subadult	M	5.26	80.24	37.4	30.0	53.0
PL18SH076	25 Sept 2018	Shishmaref	Spotted	155.0	Adult	M	6.10	77.88	28.1	26.7	52.3