

ONLINE RESOURCE 1: additional information on SUIT and RMT sampling and the Antarctic krill (*Euphausia superba*) length distribution in both nets.

Article title: Size and stage composition of age class 0 Antarctic krill (*Euphausia superba*) in the ice-water interface layer during winter/early spring.

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Table S1. SUIT sampling scheme (0-2 m depth) and environmental conditions during sampling.

Station	Date	Time (UTC)	Latitude South	Longitude West	Trawled distance (m)	Ice coverage (%)	Snow thickness (m)	Ice thickness (m)	Ice roughness
551_1	31-08-2013	00:50	61.2258	40.7325	834.15	87.5	0.2-0.5	0.300	NA
555_47	09-09-2013	13:52	60.8036	39.1553	1760.86	99.5	0.2-0.5	0.475	3.734
557_2	10-09-2013	23:16	59.9706	33.1667	1428.52	94.0	0.075	0.700	0.833
560_2	11-09-2013	21:51	60.6306	31.7897	1289.63	96.0	0.1	0.525	1.030
562_5	12-09-2013	20:48	60.9775	31.2433	945.84	92.5	0.25	0.525	0.969
565_5	16-09-2013	16:53	60.7111	27.1769	928.29	96.5	0.25	0.525	2.297
567_2	28-09-2013	23:11	60.4542	25.7028	558.10	86.5	0.6	0.675	1.148
570_5	29-09-2013	22:19	59.0836	26.3419	1524.35	96.0	0.15	0.425	0.853
571_2	30-09-2013	09:50	58.4225	26.1219	1987.17	84.0	0.05	0.225	0.829
577_2	02-10-2013	12:12	58.4464	26.1031	3177.83	51.5	0.2-0.5	0.475	1.207
579_2	02-10-2013	23:36	58.4600	26.0556	2730.73	46.0	NA	0.575	1.504

Table S2. RMT sampling scheme.

Station	Date	Time (UTC)	Latitude South	Longitude West	Sampling depth (m)
548_5	29-8-2013	00:35	60.0000	42.4358	500
554_2	1-9-2013	02:29	61.2531	40.9217	500
560_4	12-9-2013	03:16	60.6219	31.8347	500
562_4	12-9-2013	19:17	60.9736	31.2389	200
565_1	16-9-2013	09:38	60.7667	27.1392	500
565_12	17-9-2013	05:32	60.6258	27.1842	500
570_1	29-9-2013	18:36	59.1486	26.2658	600
577_1	2-10-2013	11:21	58.4006	26.1442	500
579_1	2-10-2013	21:44	58.4567	26.0053	600

Table S3. Comparison of *Euphausia superba* size and distribution in the 0-2 m surface layer and the 0-500 m layer in ice covered waters.

	0-2 m (SUIT)	0-500 m (RMT)
N	4789	724
Average length (mm) ($\pm$ sd)	11.06 (5.11)	13.28 (4.23)
Geometric mean length (mm)	10.28	12.74
Modal length (mm)	10	16
Average (N.m^{-2})	0.79	13.87
Geometric mean (N.m^{-2})	0.63	6.18
Average (N.m^{-3})	0.39	0.027
Geometric mean (N.m^{-3})	0.35	0.027

Table S4. Comparison of *Euphausia superba* catch and average size per station in the 0-2 m surface layer and the 0-500 m layer in ice covered waters. Positioning of stations on the same row indicate a comparable geographic location.

0-2 m (SUIT)				0-500 m (RMT)			
Station	N	N.m ⁻²	Average length (mm)	Station	N	N.m ⁻²	Average length (mm)
				548_5	394	46.03	15.23
551_1	141	0.34	30.05	554_2	2	0.95	42.5
555_47	333	0.38	15.69				
557_2	643	0.90	13.46				
560_2	142	0.22	12.25	560_4	47	17.84	10.89
562_5	185	0.39	11.34	562_4	0	0	-
565_5	850	1.83	7.19	565_1	2	0.58	11
				565_12	73	18.39	7.77
567_2	1004	3.60	8.12				
570_5	227	0.30	10.06	570_1	9	1.92	16.22
571_2	705	0.71	10.30				
577_2	150	0.09	11.57	577_1	124	36.58	11.39
579_2	409	0.30	11.17	579_1	73	9.87	12