

Bioenergetics of *Euphausia superba* and *Euphausia crystallorophias* in the Ross Sea

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Table S1. (a) Biochemical composition of individuals of the two species collected at haul n. 10 analysed by one-way ANOVA and Newman-Keuls test; (b) differences among hauls and among 2 mm TL size classes in *E. superba* and *E. crystallorophias* analysed by non-parametric Kruskal-Wallis one-way ANOVA. ns=not significant, TL=total length.

(a)

Category	Species
Total length	p<0.001
Protein	ns
Lipid	p<0.001
Carbohydrate	p<0.01

(b)

Category	Hauls		TL size class	
	<i>E. superba</i>	<i>E. crystallorophias</i>	<i>E. superba</i>	<i>E. crystallorophias</i>
Protein	ns	p<0.01	ns	ns
Lipid	p<0.001	p<0.001	ns	ns
Carbohydrate	p<0.001	p<0.001	ns	p<0.001

Table S2. Biochemical composition of the two krill species analysed by Mann-Whitney's test.

Category	Species
Protein	p<0.001
Lipid	p<0.001
Carbohydrate	p<0.001

Table S3. Similarity percentages among samples from the same haul and dissimilarity percentage among hauls according to different parameters.

Parameter compared	Most diverse categories	Dissimilarity interval	Average dissimilarity	Similarity interval within a station
Species	1 st protein	24.68 – 49.83	34.22	73.49 – 87.76
	2 nd lipid			
Latitude	1 st protein	22 - 25	23.5	
	2 nd lipid			
Inshore-offshore	1 st protein	16.18 – 30.82	21.8	
	2 nd lipid			

Tab. S4. Hauls displaying significant differences ($p < 0.1\%$). 10s = *E. superba* from haul n. 10, 10c = *E. crystallorophias* from haul n. 10.

Stations	Statistical R	Significance level %
30-7	0.280	0.1
30-8	0.293	0.1
30-13	0.554	0.1
30-17	0.293	0.1
30-10c	0.676	0.1
10s-13	0.318	0.1
10s-10c	0.378	0.1
1-7	0.243	0.1
1-8	0.280	0.1
1-13	0.534	0.1
1-17	0.282	0.1
1-10c	0.636	0.1
26-7	0.279	0.1
26-8	0.274	0.1
26-13	0.523	0.1
26-17	0.247	0.1
26-10c	0.643	0.1
27-7	0.427	0.1
27-8	0.403	0.1
27-13	0.718	0.1
27-17	0.465	0.1
27-10c	0.749	0.1
28-7	0.435	0.1
28-8	0.382	0.1
28-13	0.731	0.1
28-17	0.492	0.1
28-10c	0.715	0.1
7-10c	0.331	0.1
17-10c	0.262	0.1