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AAMBER 86/87 cruise kill/zooplankton sampling data

G.W. Hosie, J. Kitchener, M. Stolp, T.G. Cochran and R. Williams



ANTARCTIC DIVISION  
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# AAMBER 86/87 CRUISE KRILL/ZOOPLANKTON SAMPLING DATA

by

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## ABSTRACT

During the AAMBER 86/87 cruise (February to April 1987) to the Prydz Bay region, Antarctica, 28 shallow hauls (0-200 m), five deep hauls (200-1000 m) and four targeted horizontal trawls were made with a RMT 1+8 net system. From the samples obtained the abundance of larval and post-larval (juvenile and adult) krill *Euphausia superba*, as well as other euphausiids and zooplankton, was investigated. For post-larval krill, size (length, weight), sex and maturity composition are reported. All euphausiid larvae were sorted, classified into developmental stages and counted.



## 1. INTRODUCTION

The Australian Antarctic Division has been conducting a long-term field survey to provide data on the distribution, abundance and population structure of the krill *Euphausia superba* in the Prydz Bay region, Antarctica. Six *Nella Dan* marine science cruises have been made:

- First International BIOMASS Experiment (FIBEX), December 1980 to March 1981;
- Antarctic Division BIOMASS Experiment, Phase I (ADBEX I), November to December 1982;
- Antarctic Division BIOMASS Experiment, Phase II (ADBEX II), January to February 1984;
- Second International BIOMASS Experiment, Phase II (SIBEX II), December 1984 to February 1985;
- Antarctic Division BIOMASS Experiment, Phase III (ADBEX III), September to December 1985;
- Australian Antarctic Marine Biological Ecosystem Research, 1986/87 (AAMBER 86/87), February to April 1987.

The AAMBER 86/87 cruise was divided into two phases. The aim of the first phase, in February, was to establish the distribution and abundance of demersal fishes on the Prydz Bay continental shelf. During the second phase, in March, a survey of the krill population, and zooplankton community was carried out in a larger geographic area. Specifically, the aim was to determine the late summer distribution and abundance of krill, in particular the larvae, as a follow up to the SIBEX II study in mid-summer (January) 1985 when spawning had only just commenced (Hosie *et al.* 1988, Hosie 1991). Initially, the same grid of sampling stations used during SIBEX II (Ikeda *et al.* 1986, Hosie *et al.* 1988) was planned, but logistic constraints and deteriorating weather conditions reduced the sampling area (Figure 1). In addition to the krill and zooplankton survey, reported in this paper, oceanographic data were obtained by means of CTD casts at each fish and krill sampling station (Woehler and Williams 1988). Water collections were also made at each station for phytoplankton pigment analysis.

## 2. SAMPLING METHODS

A Rectangular Midwater Trawl (RMT 1+8, Baker *et al.* 1973) was used to collect larval and post-larval (juvenile and adult) krill *Euphausia superba*, as well as other zooplankton. The mesh size of the RMT 1 was 300 µm and for the RMT 8 was 4.5 mm. The nets have nominal mouth areas of 1 m<sup>2</sup> and 8 m<sup>2</sup> respectively, but the effective mouth areas of the RMT 1+8 are a function of the towing speed and trajectory (Roe *et al.* 1980, Pommeranz *et al.* 1983). During this study the towing speed ranged between 1.5 and 3 knots (Table 1). Flowmeters were mounted in the mouth of the nets to record the distance travelled when the nets were open, and consequently the volumes of water filtered were calculated according to the formulae of Roe *et al.* (1980) and Pommeranz *et al.* (1983).

An electro-mechanical net release was mounted above the RMT 1+8. Commands for opening and closing the nets were transmitted through the electrically conducting towing wire. Combined with the release was a monitor which displayed depth and temperature in real time on deck. The routine sampling method at each station was a shallow downward oblique haul, i.e. from the surface down to 200 m where the net was closed. At selected stations a deep downward oblique haul from 200 to 1000 m was also carried out for the purpose of collecting early developmental stages of *E. superba* from the deep water layers, as this species exhibits deep-water developmental ascent (Marr 1962, Hempel *et al.* 1979, Hempel and Hempel 1986). In addition, specific aimed horizontal tows were also made when krill swarms were located at a particular depth by a Simrad EK 120 echosounder.

### 3. PROCESSING OF SAMPLES

On board the ship, specimens of *E. superba* were removed from the catch, and large and fragile zooplankton (jellyfish, salps, etc.) were also sorted from the rest of the specimens. All specimens were subsequently preserved in Steedman's solution (Steedman 1976) for later examination in the Antarctic Division laboratories. Krill catches from swarms, or other large catches, were weighed using a spring balance and part of the catches (>200 specimens) were preserved in Steedman's solution for later examination.

After the cruise the RMT 8 samples of post-larval krill were classified into juvenile, male and female maturation stages according to the system of Makarov and Denys (1981). Then for each specimen, the body length (standard 1 measurement; Mauchline 1980) and body wet weight were measured. Body length was measured using a slide calliper (accuracy: 0.01 mm) and body weight by an electronic top-pan balance (accuracy: 0.001 g). Non-krill zooplankton in the RMT 8 samples were identified, weighed and counted.

Larvae of *E. superba* and other euphausiid species were sorted from the RMT 1 catches, classified into developmental stages and counted under a dissecting microscope. Samples with a very high abundance of larvae were sub-sampled using either a Folsom plankton splitter or a Kott whirling sub-sampler (Kott 1953), with the aim of counting a minimum of 500 specimens from the sub-sample. No further sorting of the RMT 1 samples was made for zooplankton other than euphausiid larvae, although the total catch wet weight was recorded.

#### 4. DATA

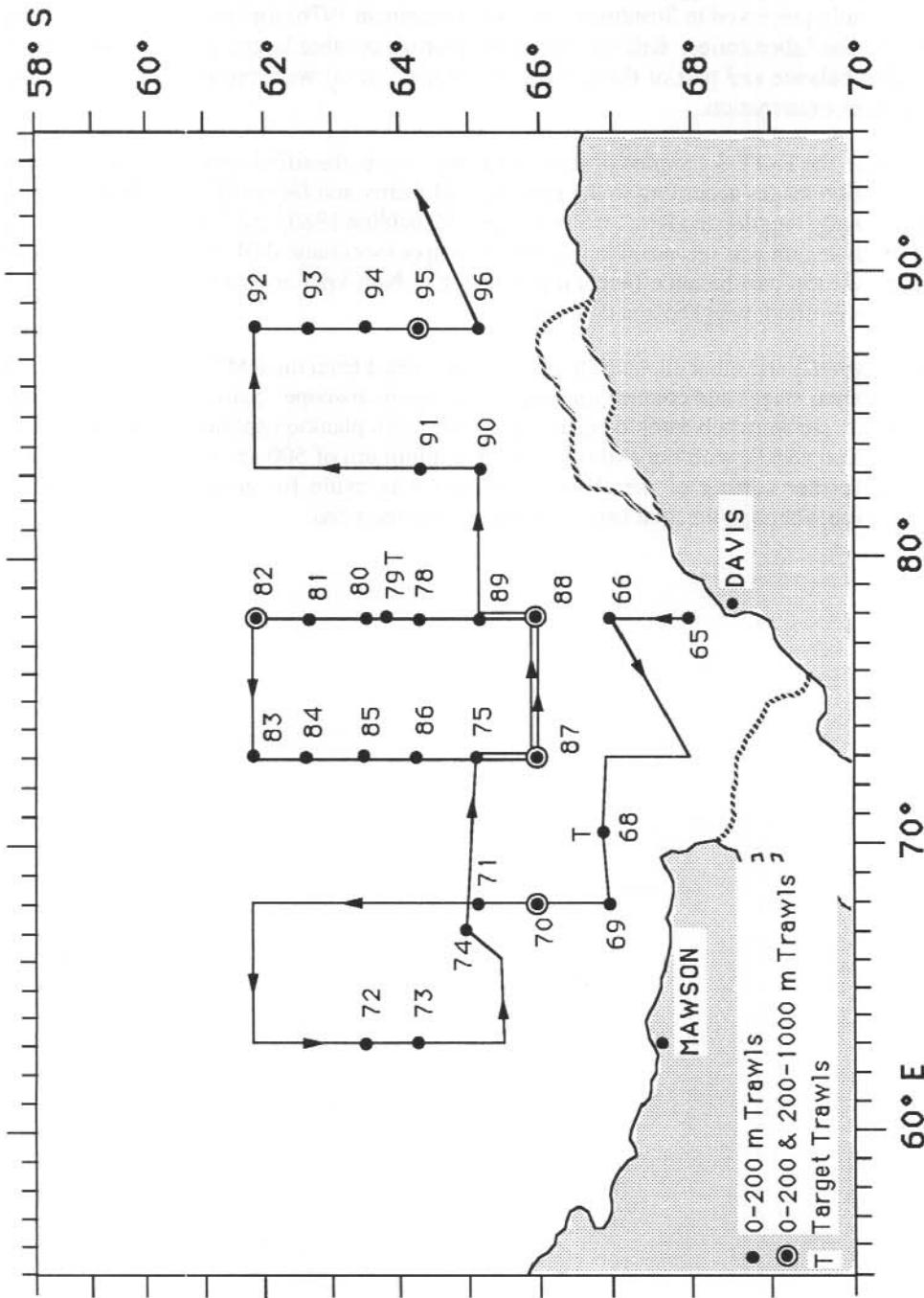


Figure 1. Cruise track and net sampling stations. The cruise track shown is only for the duration of the krill/zooplankton sampling program.

Table 1. RMT 1+8 sampling data and station list.

STN. NO.	DATE LOCAL	NET IN-OUT SHIP TIME	NET IN-OUT GMT TIME	START POSITION LAT. (S)	START POSITION LONG. (E)	HAUL TYPE	WIRE ANGLE°	DEPTH (m)	DEPTH RANGE ICE† DEPTH	BOTTOM DEPTH	SPEED (knots)
<b>MAR-87</b>											
65	7	1425-1455	0724-0755	68° 00.6'	078° 01.9'	S	300	36	0-200	623	2
66	8	0118-0131	*1818-1831	66° 50.3'	077° 56.1'	S	350	50	0-260	330	2
68	9	0455-0505	*2155-2205	66° 53.5'	070° 14.1'	T	50	33	25	321	2
68	9	0635-0645	*2335-2345	66° 53.9'	070° 14.7'	T	200	44	130	321	0
69	9	1434-1450	0734-0750	66° 59.5'	067° 58.8'	S	472	26	0-200	1291	2
70	9	2106-2120	1406-1420	65° 56.9'	067° 56.3'	S	300	48	0-210	2685	2
70	9	2138-2219	1438-1519	65° 57.8'	067° 58.4'	D	1600	36	204-973	2685	0
71	10	0425-0436	*2125-2136	65° 06.9'	067° 51.5'	S	290	41	0-200	2696	2
72	12	1931-1955	1231-1255	63° 30.8'	063° 02.2'	S	360	32	0-205	4071	2
73	13	0152-0203	*1852-1903	64° 20.8'	062° 58.1'	S	316	42	0-202	3875	2
74	14	1552-1620	0852-0920	64° 57.2'	067° 12.9'	S	300	27	0-157	3134	0
75	15	0519-0536	*2219-2236	65° 10.2'	072° 55.4'	S	492	25	0-200	3177	2
78	16	0946-1000	0246-0300	64° 20.1'	077° 59.8'	S	455	24	0-200	3513	2
79	16	1440-1450	0740-0750	63° 45.6'	078° 00.7'	T	113	30	50-56	3619	2
79	16	1600-1611	0900-0911	63° 45.9'	078° 01.4'	T	40	36	15-20	3619	2
80	16	1750-1757	1050-1057	63° 30.5'	077° 59.7'	S	290	37	0-204	3647	2
81	16	2253-2303	1553-1603	62° 39.9'	077° 58.6'	S	330	36	0-215	3787	2
82	17	0413-0424	*2113-2124	61° 50.1'	077° 58.1'	S	307	36	0-210	3410	2
82	17	0456-0555	*2156-2255	61° 50.4'	078° 00.8'	D	1800	28	200-845	3400	2
83	18	0648-0701	*2348-0001	61° 50.2'	073° 00.2'	S	350	32	0-200	3977	2
84	18	2253-2309	1553-1609	62° 39.6'	072° 58.7'	S	457	21	0-200	3893	2
85	19	0408-0419	*2108-2119	63° 29.6'	073° 00.2'	S	262	44	0-200	3747	2
86	19	0911-0918	0211-0218	64° 20.4'	072° 57.6'	S	232	52	0-200	3540	2
86	19	1004-1017	0304-0317	64° 21.4'	072° 58.8'	S	361	29	0-200	3537	2
87	19	1912-1931	1212-1231	66° 00.6'	072° 58.8'	S	515	24	0-200	2526	2
87	19	2046-2130	1346-1430	66° 05.2'	073° 02.6'	D	1800	22	200-867	2484	2
88	20	0849-0900	0149-0200	66° 00.0'	077° 59.2'	S	316	35	0-200	3083	1.5-1.75
88	20	0928-1018	0228-0318	66° 00.7'	077° 57.7'	D	1750	31	200-973	3073	1.5-1.75
89	20	1559-1609	0859-0909	65° 10.0'	077° 58.0'	S	282	40	0-200	3337	1.5-2
90	21	0421-0434	*2121-2134	65° 03.6'	082° 42.9'	S	218	80	0-200	3236	1

STN. NO.	DATE LOCAL	NET IN-OUT SHIP TIME	NET IN-OUT GMT TIME	START POSITION LAT. (S)	LONG. (E)	HAUL TYPE	WIRE OUT (m)	WIRE ANGLE°	DEPTH RANGE (m)	BOTTOM DEPTH	SPEED ICE† (knots)
<b>MAR-87</b>											
91	21	0949-1010	0249-0310	64° 19.6'	082° 58.0'	S	268	45	0-200	3558	2 0
92	22	2306-2317	1606-1617	61° 49.0'	087° 55.3'	S	365	33	0-212	1742	2 0
93	23	0430-0445	*2130-2145	62° 39.7'	087° 58.4'	S	388	32	0-200	3700	2 0
94	23	0944-0954	0244-0254	63° 30.2'	087° 58.0'	S	300	44	0-212	3747	1.5 0
95	23	1605-1614	0905-0914	64° 21.8'	087° 57.9'	S	270	39	0-200	3393	1.5-1.9 0
95	23	1642-1754	0942-1054	64° 20.7'	087° 58.4'	D	1854	27	215-912-838	3389	1.5-1.9 0
96	23	2230-2239	1530-1539	64° 57.0'	087° 59.0'	S	280	38	0-200	3064	2 0

\*Denotes previous day. †: Graded from 0 to 10 depending on the degree of ice coverage, 0 = no ice, 10 = complete ice cover. Haul Type: S,D,T, refer to shallow, deep and target hauls.

Table 2. RMT 8 krill and zooplankton abundance data.

STN. NO.	HAUL TYPE	VOLUME (m <sup>-3</sup> )	KRILL DENSITY (No. 1000m <sup>-3</sup> )	KRILL BIOMASS (g. 1000m <sup>-3</sup> )	TOTAL DENSITY (No. 1000m <sup>-3</sup> )	TOTAL BIOMASS (g. 1000m <sup>-3</sup> )
65	S	16707	0.06	0.01	106.42	5.51
66	S	6896	35.96	19.31	71.35	22.21
68	T1	5747	48087.25	51156.96	48087.25	51156.95
	T2	5168	23.41	15.75	166.22	18.28
69	S	6575	0.00	0.00	63.57	4.99
70	S	4379	0.23	0.04	20.32	2.67
	D	16930	3.37	0.62	33.25	5.56
71	S	5965	58.17	43.04	96.90	48.27
72	S	15264	0.00	0.00	59.75	0.77
73	S	3424	75.65	76.52	114.19	82.79
74	S	13167	1.22	1.02	21.57	1.45
75	S	25024	47.99	42.42	85.00	47.25
78	S	5704	9.12	10.09	284.89	14.05
79	T1	8822	10.88	11.57	624.58	13.03
	T2	8768	24.86	24.73	26.23	24.92
80	S	4860	0.00	0.00	67.70	0.75
81	S	11462	25.39	17.86	223.43	27.10
82	S	5661	6.01	2.20	304.19	30.63
	D	87681	6.96	2.06	25.24	12.20
83	S	6039	0.33	0.31	87.60	5.09
84	S	10582	1.42	1.50	281.04	27.96
85	S	4866	6.99	7.58	41.10	9.98
86	S1	5444	0.18	0.19	9.00	0.41
	S2	5379	0.19	0.18	39.60	1.61
87	S	26718	0.00	0.00	23.50	2.79
	D	8119	0.12	0.03	92.01	7.09
88	S	5520	0.18	0.08	106.88	2.53
	D	16257	0.00	0.00	54.62	8.35
89	S	4148	0.00	0.00	124.16	4.78
90	S	1789	83.85	80.99	1461.15	193.30
91	S	11758	1.11	0.94	229.97	3.62
92	S	6425	1.40	0.88	520.47	11.24
93	S	9028	0.44	0.22	260.74	8.34
94	S	4153	0.00	0.00	619.07	6.06
95	S	3363	0.00	0.00	386.56	3.78
	D	35015	0.09	0.05	57.75	10.21
96	S	3443	19.75	12.10	298.58	18.03

Haul Type: S,D,T, refer to shallow, deep and target hauls.

Table 3. RMT 8 krill data: body length-class vs. densities (No. 1000 m<sup>-3</sup>).

LENGTH-CLASS*	STATION NUMBER AND HAUL TYPE									
	65 S	66 S	68 T1	68 T2	70 S	70 D	71 S	73 S	74 S	75 S
20-21.99	0	0.145	0	0	0	0.059	0	0	0	0
22-23.99	0.060	0.145	0	0	1.122	0	0	0	0	0
24-25.99	0	0.580	0	0.774	0	1.181	0.335	0	0	0
26-27.99	0	1.885	0	1.935	0	0.532	0.168	0	0	0
28-29.99	0	3.335	152.901	1.741	0.228	0.059	1.006	0	0.076	0.588
30-31.99	0	6.671	0	1.354	0	0.236	1.341	0	0	0.588
32-33.99	0	5.365	152.901	0.967	0	0	1.006	0.292	0	1.470
34-35.99	0	3.190	382.252	1.741	0	0	3.018	0	0.152	1.029
36-37.99	0	1.305	1299.655	1.935	0	0.059	3.353	0	0	1.617
38-39.99	0	1.305	1834.808	3.096	0	0	4.023	1.168	0.076	1.323
40-41.99	0	1.305	3516.715	1.161	0	0	3.521	0.292	0.076	2.939
42-43.99	0	1.305	3287.364	2.128	0	0.059	9.220	6.425	0.076	5.291
44-45.99	0	1.305	5275.072	0.774	0	0.059	9.723	10.806	0.152	8.818
46-47.99	0	2.175	5810.224	0.967	0	0	10.226	18.984	0.152	9.553
48-49.99	0	1.305	7874.383	0.774	0	0	6.873	19.568	0.304	7.936
50-51.99	0	2.755	7950.833	1.548	0	0	3.521	11.682	0.152	5.144
52-53.99	0	1.450	6727.628	1.354	0	0	0.671	3.797	0	0.735
54-55.99	0	0.290	3058.013	0.774	0	0	0.168	1.752	0	0.294
56-57.99	0	0	764.503	0.387	0	0	0	0.876	0	0.147
58-59.99	0	0.145	0	0	0	0	0	0	0	0

STATION NUMBER AND HAUL TYPE

LENGTH-CLASS* (mm)	78 S	79 T <sub>1</sub>	79 T <sub>2</sub>	81 S	82 S	82 D	83 S	84 S	85 S	86-1 S
20-21.99	0	0	0	0	0	0.035	0	0	0	0
22-23.99	0	0	0	0	0	0.035	0	0	0	0
24-25.99	0	0	0	0	0	0.070	0	0	0	0
26-27.99	0	0	0	0	0	0.104	0	0	0	0
28-29.99	0	0	0	0	0.177	0.174	0	0	0	0
30-31.99	0	0.113	0	0.588	0.353	0.696	0	0	0	0
32-33.99	0	0.227	0	0.940	1.237	1.496	0	0	0	0
34-35.99	0	0.227	0.228	3.409	1.413	2.400	0	0	0	0
36-37.99	0.175	0.453	0.114	3.879	1.590	1.391	0	0	0	0
38-39.99	0	0	0	4.819	0.353	0.452	0	0	0	0
40-41.99	0.175	0.453	0	3.291	0.353	0.104	0	0	0	0
42-43.99	0.175	0.340	0.456	1.528	0	0	0	0	0.206	0
44-45.99	0.526	0.907	1.939	0.353	0	0	0	0	0.617	0
46-47.99	1.928	1.927	6.615	0.940	0	0	0.166	0.378	1.644	0.184
48-49.99	2.980	3.174	8.212	1.998	0	0	0.166	0.473	1.439	0
50-51.99	1.928	1.700	6.957	2.116	0	0	0	0.284	2.055	0
52-53.99	0.351	0.680	0.228	0.705	0	0	0	0.095	0.617	0
54-55.99	0.526	0.453	0.114	0.588	0	0	0	0.095	0.411	0
56-57.99	0.175	0.227	0	0.235	0	0	0	0	0	0
58-59.99	0	0	0	0	0	0	0	0	0	0

LENGTH-CLASS*	STATION NUMBER AND HAUL TYPE									
	86-2 S (mm)	87 D	88 S	90 S	91 S	92 S	93 S	95 D	96 S	
20-21.99	0	0	0	0	0	0	0	0	0	1.162
22-23.99	0	0	0	0	0	0	0	0	0	0.871
24-25.99	0	0	0	0	0	0	0	0	0	0.871
26-27.99	0	0	0	0	0	0	0	0	0	0.581
28-29.99	0	0	0	0	0	0	0	0	0	0
30-31.99	0	0	0	1.118	0	0	0	0	0	0
32-33.99	0	0.123	0	0	0	0	0.111	0	0	1.162
34-35.99	0	0	5.031	0	0	0.156	0	0.029	1.452	
36-37.99	0	0	0.181	5.031	0.369	0.156	0	0	0	2.324
38-39.99	0	0	0	6.708	0	0.156	0.111	0	0	2.324
40-41.99	0	0	0	7.826	0	0.156	0.222	0.029	2.904	
42-43.99	0	0	0	1.118	0.184	0.156	0	0	0	0.581
44-45.99	0	0	0	3.354	0	0.311	0	0.029	0.290	
46-47.99	0	0	0	11.738	0	0.311	0	0	0	0.581
48-49.99	0.186	0	0	17.887	0.184	0	0	0	0	1.743
50-51.99	0	0	0	17.328	0.184	0	0	0	0	2.324
52-53.99	0	0	0	5.031	0.184	0	0	0	0	0.290
54-55.99	0	0	0	0.559	0	0	0	0	0	0
56-57.99	0	0	0	0.559	0	0	0	0	0	0
58-59.99	0	0	0	0.559	0	0	0	0	0	0

\*Body Length refers to standard 1 measurement (Mauchline 1980). Haul Type: S,D,T, refers to shallow, deep and target hauls.

Table 4. RMT 8 krill data: weight-class vs. densities (No. 1000 m<sup>-3</sup>).

STATION NUMBER AND HAUL TYPE

WEIGHT-CLASS (wet wt., g)	STATION NUMBER AND HAUL TYPE										75 S
	65 S	66 S	68 T1	T2	70 S	D	71 S	73 S	74 S	75 S	
0.000-0.099	0	0.290	0	0	0	0	0	0	0	0	0
0.100-0.199	0.060	3.770	152.901	3.676	0.228	2.835	1.006	0	0.076	0.588	
0.200-0.299	0	10.731	76.450	2.709	0	0.177	2.682	0	0	1.470	
0.300-0.399	0	6.090	993.854	2.128	0	0.118	4.023	0.292	0.076	1.617	
0.400-0.499	0	2.030	1681.907	2.322	0	0.059	4.359	0.584	0.152	2.058	
0.500-0.599	0	1.450	2675.761	2.902	0	0.059	4.526	3.797	0.076	2.351	
0.600-0.699	0	1.450	3363.814	1.935	0	0.059	8.550	4.089	0.152	4.115	
0.700-0.799	0	0.870	3363.814	1.354	0	0	8.215	8.178	0.076	6.467	
0.800-0.899	0	1.740	4051.867	0.580	0	0.059	8.382	11.974	0.152	5.438	
0.900-0.999	0	1.305	4510.569	0.193	0	0	6.538	11.098	0	8.377	
1.000-1.099	0	0.870	4587.019	0.387	0	0	5.365	11.974	0.076	5.291	
1.100-1.199	0	1.450	4587.019	0.774	0	0	2.179	6.425	0.228	3.086	
1.200-1.299	0	1.595	4739.920	0.387	0	0	1.341	6.717	0	3.233	
1.300-1.399	0	1.450	3898.966	0.774	0	0	0.671	3.505	0	1.323	
1.400-1.499	0	0.580	3287.364	0.967	0	0	0.168	1.752	0	1.029	
1.500-1.599	0	0	2828.662	0.580	0	0	0	1.752	0.076	0.882	
1.600-1.699	0	0.290	2064.159	0.387	0	0	0	0.876	0	0.147	
1.700-1.799	0	0	764.503	0.580	0	0	0	0.584	0.076	0.147	
1.800-1.899	0	0	305.801	0.580	0	0	0.168	1.168	0	0	
1.900-1.999	0	0	152.901	0.193	0	0	0	0.584	0	0	
2.000-2.099	0	0	0	0	0	0	0	0	0	0	
2.100-2.199	0	0	0	0	0	0	0	0.292	0	0	
2.200-2.299	0	0	0	0	0	0	0	0	0	0	0.147

WEIGHT-CLASS (wet wt., g)	STATION NUMBER AND HAUL TYPE									
	78 S	79 T1	79 T2	81 S	82 S	82 D	83 S	84 S	85 S	86-1 S
0.000-0.099	0	0	0	0	0	0	0.035	0	0	0
0.100-0.199	0	0	0	0	0	0.209	0	0	0	0
0.200-0.299	0	0.113	0	0.823	1.413	1.148	0	0	0	0
0.300-0.399	0	0.227	0.228	3.409	2.650	2.887	0	0	0	0
0.400-0.499	0.175	0.453	0	5.054	0.883	2.331	0	0	0	0
0.500-0.599	0	0.227	0.114	5.642	0.177	0.313	0	0	0	0
0.600-0.699	0.175	0.227	0.456	2.233	0.353	0.035	0	0.095	0.206	0
0.700-0.799	0	0.793	1.141	1.293	0	0	0	0	0.189	0.411
0.800-0.899	0.526	0.907	5.018	0.118	0	0	0.166	0.189	0.822	0
0.900-0.999	1.227	1.360	5.474	0.823	0	0	0	0.189	0.822	0
1.000-1.099	3.506	2.380	6.501	1.175	0	0	0.166	0.095	1.439	0.184
1.100-1.199	1.403	1.814	3.650	1.175	0	0	0	0.284	1.439	0
1.200-1.299	1.227	0.567	1.597	1.293	0	0	0	0.095	0.822	0
1.300-1.399	0	0.227	0.570	0.823	0	0	0	0.189	0.411	0
1.400-1.499	0.175	0.227	0	0.470	0	0	0	0	0.617	0
1.500-1.599	0.175	0.453	0.114	0.235	0	0	0	0	0	0
1.600-1.699	0.351	0.227	0	0.118	0	0	0	0.095	0	0
1.700-1.799	0.175	0	0	0.588	0	0	0	0	0	0
1.800-1.899	0	0.113	0	0	0	0	0	0	0	0
1.900-1.999	0	0.340	0	0.118	0	0	0	0	0	0
2.000-2.099	0	0.227	0	0	0	0	0	0	0	0
2.100-2.199	0	0	0	0	0	0	0	0	0	0
2.200-2.299	0	0	0	0	0	0	0	0	0	0

STATION NUMBER AND HAUL TYPE

WEIGHT-CLASS (wet wt., g)	86-2 S	87 D	88 S	90 S	91 S	92 S	93 S	95 D	96 S
0.000-0.099	0	0	0	0	0	0	0	0	0
0.100-0.199	0	0	0	0	0	0	0	0	0
0.200-0.299	0	0.123	0	1.118	0	0	0	0	1.452
0.300-0.399	0	0	0	4.472	0.158	0.156	0.111	0.029	0.581
0.400-0.499	0	0	0.181	6.708	0.158	0.156	0	0	2.324
0.500-0.599	0	0	0	0	6.149	0	0.311	0.222	0
0.600-0.699	0	0	0	0	6.708	0	0.156	0.111	0.029
0.700-0.799	0	0	0	0	2.795	0.158	0.311	0	1.452
0.800-0.899	0	0	0	0	3.913	0.158	0.311	0	1.743
0.900-0.999	0.186	0	0	0	3.913	0	0	0	0
1.000-1.099	0	0	0	0	9.503	0	0	0	0.871
1.100-1.199	0	0	0	0	11.179	0.158	0	0	0.581
1.200-1.299	0	0	0	0	13.974	0.316	0	0	1.452
1.300-1.399	0	0	0	0	8.385	0	0	0	0.871
1.400-1.499	0	0	0	0	2.236	0	0	0	0.581
1.500-1.599	0	0	0	0	1.118	0	0	0	0
1.600-1.699	0	0	0	0	1.677	0	0	0	0
1.700-1.799	0	0	0	0	0	0	0	0	0
1.800-1.899	0	0	0	0	0	0	0	0	0
1.900-1.999	0	0	0	0	0	0	0	0	0
2.000-2.099	0	0	0	0	0	0	0	0	0
2.100-2.199	0	0	0	0	0	0	0	0	0
2.200-2.299	0	0	0	0	0	0	0	0	0

Haul Type: S,D,T, refers to shallow, deep and target hauls.

Table 5. RMT 8 krill data: maturity vs. densities (No. 1000 m<sup>-3</sup>).

STATION NUMBER AND HAUL TYPE

MATURITY STAGE	65 S	66 S	68 T1	68 T2	70 S	70 D	71 S	73 S	74 S	75 S
1	0.060	19.577	1146.755	9.481	0.228	3.131	6.706	0.292	0.076	3.380
<b>MALE</b>										
2M	0	9.426	28668.871	5.998	0	0.059	16.932	1.168	0.228	11.610
3AM	0	1.740	8333.085	1.741	0	0	2.012	2.921	0	4.115
3BM	0	0.145	1376.106	0.193	0	0	0.838	11.974	0.228	3.674
<b>FEMALE</b>										
2F	0	2.320	3746.066	5.418	0	0.059	15.256	1.168	0.152	2.792
3AF	0	1.015	3440.264	0.387	0	0.059	7.041	2.336	0	3.968
3BF	0	0.145	229.351	0	0	0.059	5.700	6.133	0	4.262
3CF	0	0.870	611.603	0	0	0	2.012	22.780	0.152	6.760
3DF	0	0	76.450	0.193	0	0	0.335	17.815	0.152	5.732
3EF	0	0.725	458.702	0	0	0	1.341	9.054	0.228	1.617

		STATION NUMBER AND HAUL TYPE									
MATURITY STAGE		78 S	79 T1	79 T2	81 S	82 S	82 D	83 S	84 S	85 S	86-1 S
1	0	1.020	0	3.879	1.590	5.426	0	0	0	0	0
MALE											
2M	0.175	0.567	0.114	8.580	2.826	0.696	0	0	0	0	0
3AM	0.701	0.227	0.684	1.410	0	0	0.166	0.095	0.617	0	0
3BM	5.084	6.008	22.354	1.175	0	0	0	0.662	0.617	0.184	
FEMALE											
2F	0	0.340	0.228	6.112	1.237	0.800	0	0	0	0	0
3AF	0	0	0	0.470	0	0.035	0	0	0	0.822	0
3BF	0.351	0.113	0	0.705	0	0	0	0	0	1.028	0
3CF	1.052	0.453	0.228	1.646	0	0	0	0	0	0	0
3DF	1.052	1.360	0.228	0.940	0	0	0	0	0.095	0.206	0
3EF	0.701	0.793	1.026	0.470	0	0	0.166	0.567	3.699	0	

STATION NUMBER AND HAUL TYPE

MATURITY STAGE	86.2 S	87 D	88 S	90 S	91 S	92 S	93 S	95 D	96 S
1	0	0.123	0	5.590	0.158	0.156	0.111	0.026	7.842
MALE	0	0	0.181	15.092	0	0.467	0.332	0.029	5.809
2M	0	0	0	0.559	0	0	0	0	0.581
3AM	0.186	0	0	40.246	0.632	0	0	0	0.290
3BM									
FEMALE	0	0	0	8.944	0.158	0.156	0	0	1.162
2F	0	0	0	2.795	0	0.623	0	0.029	1.162
3AF	0	0	0	0	0	0	0	0	0
3BF	0	0	0	0	0	0	0	0	0
3CF	0	0	0	5.590	0	0	0	0	0.290
3DF	0	0	0	0.559	0	0	0	0	0.290
3EF	0	0	0	4.472	0.158	0	0	0	2.033

Haul Type: S,D,T, refers to shallow, deep and target hauls.

Table 6. RMT 8 krill length-weight regression analysis.

STN. NO.	HAUL TYPE	n	b	log10a	r <sup>2</sup>
66	S	248	3.1911	-5.3577	0.9815
68	T1	629	3.4044	-5.7096	0.9276
68	T2	121	3.4573	-5.7708	0.9837
70	D	57	3.0206	-5.0467	0.8965
71	S	347	3.2029	-5.3972	0.9768
73	S	259	3.6156	-6.0819	0.7413
74	S	16	3.5575	-5.9732	0.9609
75	S	323	3.3664	-5.6424	0.9344
78	S	51	2.9080	-4.8742	0.8802
79	T1	96	3.1190	-5.2162	0.9477
79	T2	218	2.9484	-4.9760	0.8165
81	S	216	3.2365	-5.4207	0.9677
82	S	31	3.1780	-5.3708	0.9161
82	D	200	3.0299	-5.0960	0.9143
84	S	15	4.2696	-7.2081	0.7333
85	S	34	3.2316	-5.4400	0.8208
90	S	150	3.2113	-5.3755	0.9729
96	S	67	3.3250	-5.5647	0.9885
<hr/>					
MATURITY STAGE					
1		567	3.0608	-5.1556	0.9340
<hr/>					
MALE					
2M		829	3.2534	-5.4564	0.9481
3AM		211	3.5635	-5.9792	0.8257
3BM		469	3.3505	-5.6359	0.7538
<hr/>					
FEMALE					
2F		318	2.9078	-4.9144	0.8724
3AF		155	2.9897	-5.0375	0.7715
3BF		103	2.9904	-5.0521	0.8027
3CF		189	3.0490	-5.1071	0.8515
3DF		138	3.1825	-5.2879	0.8232
3EF		128	3.2392	-5.4714	0.7279
<hr/>					
TOTAL		3107	3.1709	-5.3244	0.9677

Expressed as  $\log_{10}w = \log_{10}a + b \cdot \log_{10}l$ , where w is wet weight in g, l is standard measurement in mm. Haul type: S,D,T refers to shallow, deep and target hauls, n: sample size, r<sup>2</sup>: correlation coefficient. Hauls with less than 10 specimens are not displayed but are included in the 'Maturity Stage' and 'Total' analysis.

Table 7. RMT 8 krill length-weight regression statistical parameters.

STN. No.	HAUL TYPE	n	$\Sigma \log_{10} l$	$\Sigma \log_{10} w$	$\Sigma (\log_{10} l)^2$	$\Sigma (\log_{10} w)^2$	$\Sigma (\log_{10} l)(\log_{10} w)$
66	S	248	387.0168	-93.7195	606.1494	58.1344	-139.2669
68	T1	629	1054.4586	-1.5437	1769.1397	17.9970	2.3149
68	T2	121	191.6523	-35.6732	304.6827	24.1725	-52.6175
70	D	57	80.2524	-45.2494	113.1994	38.0492	-63.0768
71	S	347	566.5545	-58.2128	926.2749	22.8841	-91.0444
73	S	259	434.7135	-3.4867	729.8756	4.2681	-4.9867
74	S	16	26.2167	-2.3046	43.0385	1.4023	-3.4871
75	S	323	532.8300	-28.7824	879.8942	13.7545	-44.3745
78	S	51	86.1159	1.8386	145.4524	0.4672	3.2260
79	T1	96	160.5109	-0.1264	268.6281	2.6239	0.5859
79	T2	218	367.2552	-1.9621	618.8324	1.4361	-2.9126
81	S	216	348.0633	-44.3639	561.7288	18.4013	-68.7107
82	S	31	47.9951	-13.9671	74.3413	6.6653	-21.5170
82	D	200	306.8688	-89.4170	471.1590	43.1587	-136.2363
84	S	15	25.3595	0.1530	42.8809	0.1843	0.2900
85	S	34	57.5206	0.9210	97.3315	0.2695	1.6202
90	S	150	248.6752	-7.7540	412.7793	5.8802	-11.1948
96	S	67	105.2432	-22.9022	166.1859	17.5654	-33.0799
<b>MATURITY STAGE</b>							
1		567	850.5540	-319.9031	1278.0071	201.5024	-473.4731
<b>MALE</b>							
2M		829	1360.9739	-95.6032	2236.9732	40.6633	-148.3151
3AM		211	360.3624	22.5461	615.5799	4.3253	38.9500
3BM		469	789.4694	1.8731	1329.1424	3.3688	3.9092
<b>FEMALE</b>							
2F		318	511.8175	-74.5429	824.1996	21.6896	-118.7112
3AF		155	259.1428	-6.0534	433.3495	1.2973	-9.8468
3BF		103	172.6473	-4.0801	289.4793	1.1656	-6.5695
3CF		189	317.2380	2.0306	532.6333	1.6240	3.8558
3DF		138	235.1315	18.5675	400.7354	3.8070	31.9747
3EF		128	216.6325	1.3770	366.7409	1.4995	2.6641
<b>TOTAL</b>		3107	5073.9693	-453.7885	8306.8405	280.9427	-675.5618

For the relationship  $\log_{10}w = \log_{10}a - b \cdot \log_{10}l$ , where w is wet weight in g, l is standard 1 measurement in mm. Haul type: S,D,T refers to shallow, deep and target hauls, n: sample size, r<sup>2</sup>: correlation coefficient. Hauls with less than 10 specimens are not displayed but are included in the 'Maturity Stage' and 'Total' analysis.

Table 8. RMT 8 non-krill zooplankton densities and biomass data.

STATION HAUL TYPE	65 S	66 S	68 T2	69 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	0	0	0	0	0	0	0	0
<i>Euphausia crystallorophias</i>	43.395	4.690	0.725	0.053	0	0	0	0
<i>Euphausia triacantha</i>	0	0	0	0	0	0	0	0
<i>Thysanoessa macrura</i>	0.838	0.035	4.495	0.212	0.580	0.046	3.498	0.092
Euphausiid indet.	0	0	0.290	0.002	0	0	0	0
<i>Amallothrix dentipes</i>	0	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>	0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	28.850	0.031	6.961	0.010	35.023	0.052	27.529	0.039
<i>Calanus propinquus</i>	13.408	0.039	2.465	0.007	3.483	0.015	1.825	0.005
<i>Candacia falcifera</i>	0	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0	0	0	0
<i>Euaugeptilus laticeps</i>	0	0	0	0	0	0	0	0
<i>Euaugeptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	1.556	0.014	0.580	0.006	18.382	0.074	0.456	0.003
<i>Euchaeta farrani</i>	0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0	0	0	0	0	0	0	0
<i>Euchirella rostromagna</i>	0	0	0.145	0	0	0	0	0
<i>Gaetanus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	0	0	0	0	0	0	0	0
<i>Haloptilus ocellatus</i>	0.060	0	0.145	0	0	0	0.760	0.001
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus farrani</i>	0	0	0	0	0	0	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0	0	0	0
<i>Lucicutia wolfendoni</i>	0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	2.334	0.004	0.725	0.001	71.014	0.116	0	0
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Pleuromamma robusta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polypina</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	0.539	0.002	1.160	0.004	0	0	0.913	0.003
<i>Scaphocalanus affinis</i>	0	0	0	0	0	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Cyllopus lucasi</i>	0	0	0.290	0.054	0	0	0	0
<i>Hyperia macrocephala</i>	0	0	0	0	0.193	0.002	0	0
<i>Hyperiella dilatata</i>	0	0	0	0	0	0	0.608	0.003
<i>Hyperiella macronyx</i>	0	0	0	0	0	0	0	0
<i>Primno macropa</i>	0	0	0	0	0.193	0.001	0	0
<i>Themisto gaudichaudii</i>	0	0	0	0	0	0	0	0
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaidae	0	0	0	0	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0	0	0	0	0	0
Ostracoda	0.180	0	0.290	0	0	0	0.152	0
Decapoda	0	0	0	0	0	0	0	0
<i>Clio pyramidata</i>	0	0	3.915	0.818	0	0	2.586	0.580
<i>Clione limacina</i>	0.060	0.003	0.290	0.060	0	0	0	0

STATION HAUL TYPE	65 S	66 S	68 T2	69 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0.145	0.103	0	0	0	0
Gastropoda indet.	0.419	0.007	0	0	0	0	0.456	0.023
Cephalopoda	0	0	0	0	0	0	0	0
<i>Eukrohnia hamata</i>	7.602	0.034	2.465	0.017	0	0	10.494	0.016
<i>Sagitta gazellaæ</i>	0.539	0.044	2.320	0.655	0.580	0.054	0.304	0.080
<i>Sagitta marri</i>	0	0	0	0	0	0	0	0
<i>Sagitta maxima</i>	0	0	0.145	0.018	0	0	0	0
Chaetognatha indet.	0	0	0	0	0	0	0	0
<i>Phalacrotophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonerella bongraini</i>	0	0	0	0	0	0	0	0
<i>Sagitella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0	0	0	0	0	0	0	0
<i>Tomopteris cavallii</i>	0	0	0.145	0.001	0	0	0	0
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0.145	0.105	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0	0
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0	0	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	0.299	0.016	0.435	0.087	0	0	0	0
<i>Atolla wyvillei</i>	0	0	0	0	0	0	0	0
<i>Desmonema gaudicaudi</i>	0	0	0	0	0.193	0.035	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycopsis borchgrevinkii</i>	0	0	0	0	0	0	0	0
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0	0	0	0	0	0	0	0
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0	0	0
<i>Zanclognathaweldoni</i>	0.060	0.003	0	0	0	0	0	0
Hydromedusae indet.	0	0	0	0	0	0	0	0
Siphonophora Bracts	0	0.130	0	0.156	0	0	0	0
<i>Siphonophora Nectophore</i>	2.693	0.171	6.961	0.162	4.063	1.130	13.688	4.088
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	0
<i>Callianira cristata</i>	0.060	0.003	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelagonemertes rollstoni</i>	0	0	0	0	0	0	0	0
Appendicularia	3.232	0.002	0	0	0	0	0.304	0
<i>Bathylagus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Benthalbella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indet. larva	0.120	0.004	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0.145	0.049	0.387	0.170	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus braueri</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsi</i>	0	0	0	0	0	0	0	0
<i>Pagetopsis maculatus</i>	0	0	0	0	0.193	0.014	0	0
<i>Pleuragramma antarcticum</i>	0.120	0.119	0	0	8.514	0.828	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	0
Residue	0	0.148	0	0.319	0	0	0	0.058

STATION HAUL TYPE	70 S	70 D	71 S	72 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	0	0	0	0	0	0	0	0
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>	0	0	0	0	0	0	0	0
<i>Thysanoessa macrura</i>	0	0	0.650	0.041	3.185	0.224	0.328	0.031
Euphausiid indet.	0	0	0	0	0	0	0	0
<i>Amallothrix dentipes</i>	0	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>	0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	6.394	0.009	9.746	0.019	8.550	0.012	3.603	0.005
<i>Calanus propinquus</i>	1.142	0.003	0.177	0.001	1.174	0.003	0.655	0.002
<i>Candacia falcifera</i>	0	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus laticeps</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	0.457	0.003	1.063	0.015	0.335	0.004	0.066	0
<i>Euchaeta farrani</i>	0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0	0	0	0	0	0	0	0
<i>Euchirella rostromagna</i>	0	0	0.059	0.001	0.168	0.001	0	0
<i>Gaeanus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	0	0	0.650	0.001	3.856	0.011	0	0
<i>Haloptilus ocellatus</i>	0.685	0.001	0	0	0.503	0	0	0
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0	0	0.059	0	0	0	0	0
<i>Heterorhabdus farrani</i>	0	0	0.059	0	0	0	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0	0	0	0
<i>Lucicutia wolfendoni</i>	0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	0.228	0	0.591	0.001	3.521	0.006	0	0
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Pleuromamma robusta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polypinna</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	0.457	0.002	1.949	0.017	0.671	0.002	44.811	0.112
<i>Scaphocalanus affinis</i>	0	0	0	0	0	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0.177	0.001	0	0	0	0
<i>Cyllopus lucasi</i>	0	0	0	0	1.174	0.238	0.262	0.048
<i>Hyperia macrocephala</i>	0	0	0.650	0.084	0	0	0	0
<i>Hyperiella dilatata</i>	0	0	0	0	0.168	0.002	0	0
<i>Hyperiella macronyx</i>	0	0	0	0	0	0	0	0
<i>Primno macropa</i>	0	0	0.059	0.002	0	0	0.197	0.008
<i>Themisto gaudichaudii</i>	0	0	0	0	1.676	0.142	2.162	0.108
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaridae	0	0	0.059	0.001	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0	0	0	0	0	0
Ostracoda	0.228	0	1.536	0.003	0.168	0	0	0
Decapoda	0	0	0	0	0	0	0	0
<i>Clio pyramidata</i>	0.457	0.048	4.253	1.139	5.197	1.053	0	0
<i>Clione limacina</i>	0.228	0.006	0	0	0	0	0	0

STATION HAUL TYPE	70 S	70 D	71 S	72 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0	0
Gastropoda indet.	0.228	0.015	0	0	0	0	0	0
Cephalopoda	0	0	0	0	0	0	0	0
<i>Eukrohnia hamata</i>	2.055	0.012	4.607	0.060	0.503	0.001	4.651	0.006
<i>Sagitta gazellae</i>	0.457	0.169	1.536	0.425	1.676	0.355	1.703	0.004
<i>Sagitta marri</i>	0	0	0.591	0.012	0	0	0	0
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	0	0	0	0	0	0	0.917	0.001
<i>Phalacrotophorus pictus</i>	0	0	0.059	0	0	0	0	0
<i>Rhynchonereis bongraini</i>	0	0	0	0	0	0	0	0
<i>Sagitella kowalevskii</i>	0	0	0.118	0.002	0	0	0	0
<i>Tomopteris carpenteri</i>	0	0	0	0	0	0	0	0
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0.228	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0	0	0.335	0.237	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0	0
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0	0	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	0.685	1.313	0.354	0.343	1.174	0.457	0	0
<i>Atolla wyvillei</i>	0	0	0	0	0	0	0	0
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycopsis borchgrevinkii</i>	0	0	0.118	0.206	0	0	0.066	0.184
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0	0	0	0	0	0	0	0
<i>Solmundella bitentaculata</i>	0.228	0.001	0	0	0	0	0	0
<i>Zanclognathia weldoni</i>	0	0	0	0	0	0	0	0
Hydromedusae indet.	0	0	0	0	0	0	0	0
Siphonophora Bracts	0	0.038	0	0.008	0	0	0	0
Siphonophora Nectophore	5.024	0.662	0.295	0.084	1.844	0.621	0.328	0.132
<i>Beroe cucumis</i>	0	0	0	0	0.168	0.277	0	0
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0.236	0.022	0.168	0.354	0	0
<i>Pelagonemertes rolllestoni</i>	0	0	0	0	0	0	0	0
Appendicularia	0	0	0	0	0	0	0	0
<i>BathyLAGUS antarcticus</i>	0.685	0.142	0.177	2.411	0	0	0	0
<i>Benthalabella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indet. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus braueri</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsi</i>	0	0	0.059	0.002	0	0	0	0
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0.228	0.126	0	0	2.515	1.093	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	0
Residue	0	0.083	0	0.039	0	0.137	0	0.128

STATION HAUL TYPE	73 S	74 S	75 S	78 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	0	0	0	0	0.719	0.029	0	0
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>	2.336	0.597	0	0	0	0	0	0
<i>Thysanoessa macrura</i>	8.762	0.557	0	0	6.634	0.376	7.714	0.686
Euphausiid indet.	0	0	0	0	0.400	0.010	0	0
<i>Amallothrix dentipes</i>	0	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>	0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	3.213	0.005	10.025	0.014	4.396	0.006	142.356	0.154
<i>Calanus propinquus</i>	1.168	0.003	1.063	0.003	1.678	0.005	13.149	0.360
<i>Candacia falcifera</i>	0	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus laticeps</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	0.584	0.008	0	0	0.320	0.002	0	0
<i>Euchaeta farrani</i>	0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0	0	0	0	0	0	0	0
<i>Euchirella rostromagna</i>	0.292	0.002	0	0	0.240	0.003	0	0
<i>Gaetanus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	1.168	0.003	0.076	0	0.719	0.002	0	0
<i>Haloptilus ocellatus</i>	1.460	0.001	0.228	0	0.080	0	4.208	0.004
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0	0	0	0	0.040	0	0	0
<i>Heterorhabdus farrani</i>	0	0	0	0	0	0	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0	0	0	0
<i>Lucicutia wolfendeni</i>	0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	0.292	0	0.076	0	1.079	0.002	0.175	0
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Pleuromamma robusta</i>	0.292	0.001	0	0	0.440	0.001	0	0
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polypinna</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	1.168	0.004	0.456	0.002	10.430	0.035	60.133	0.364
<i>Scaphocalanus affinis</i>	0	0	0	0	0	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Cyllopus lucasi</i>	0.876	0.152	0	0	0.799	0.171	0	0
<i>Hyperia macrocephala</i>	0.292	0.201	0	0	0	0	0	0
<i>Hyperiella dilatata</i>	0.292	0.004	0	0	0	0	0	0
<i>Hyperiella macronyx</i>	0	0	0	0	0	0	0	0
<i>Primno macropa</i>	0	0	0	0	0	0	0.175	0.013
<i>Themisto gaudichaudii</i>	0	0	0.076	0.004	3.916	0.258	15.603	1.161
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaidae	0	0	0	0	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0	0	0	0	0	0
Ostracoda	0	0	0	0	0	0	0	0
Decapoda	0	0	0	0	0	0	0	0
<i>Clio pyramidata</i>	1.168	0.253	1.139	0.230	0.639	0.046	1.403	0.089
<i>Clione limacina</i>	0	0	0.076	0.013	0	0	0.175	0.057

STATION HAUL TYPE	73 S	74 S	75 S	78 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0	0
Gastropoda indet.	0	0	0	0	0	0	0	0
Cephalopoda	0	0	0	0	0.040	0.013	0.175	0.037
<i>Eukrohnia hamata</i>	0.876	0.002	5.924	0.013	0.599	0.001	3.331	0.012
<i>Sagitta gazellae</i>	1.460	0.031	0.911	0.027	3.317	0.792	7.539	0.319
<i>Sagitta marri</i>	0	0	0	0	0	0	11.396	0.033
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	0	0	0	0	0	0	6.487	0.012
<i>Phalacrotophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonella bongraini</i>	0	0	0	0	0	0	0	0
<i>Sagittella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpentari</i>	0	0	0	0	0.080	0.098	0	0
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0.228	0.105	0.040	0.007	0.175	0.114
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0	0	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	7.301	2.177	0	0	0.200	0.020	0	0
<i>Atolla wyvillei</i>	0	0	0	0	0.040	0.670	0	0
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycopsis borchgrevinkii</i>	0	0	0.076	0.006	0	0	0	0
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0.876	0.292	0	0	0	0	0	0
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0	0	0
<i>Zanclognathia waldoni</i>	0	0	0	0	0	0	0	0
Hydromedusae indet.	0	0	0	0	0	0	0	0
Siphonophora Bracts	0	0	0	0	0	0	0	0
<i>Siphonophora Nectophore</i>	3.797	0.192	0	0	0	0	1.227	0.359
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	0
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelaginemertes rollastonii</i>	0	0	0	0	0	0	0	0
Appendicularia	0	0	0	0	0	0	0	0
<i>Bathyragus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Benthalabella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indet. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	0	0	0	0	0.160	0.434	0.175	0.009
<i>Gymnoscopelus braueri</i>	0.292	0.981	0	0	0	0	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0.040	1.344	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsu</i>	0.584	0.003	0	0	0	0	0.175	0.007
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	0
Residue	0	0.800	0	0.013	0	0.499	0	0.173

STATION HAUL TYPE		79 T1		79 T2		80 S		81 S	
TAXA		DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>		0	0	0	0	0	0	11.778	0.575
<i>Euphausia crystallorophias</i>		0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>		0	0	0	0	0	0	3.228	0.619
<i>Thysanoessa macrura</i>		0	0	0	0	0	0	6.282	0.330
Euphausiid indet.		0	0	0	0	0	0	0.262	0.006
<i>Amallothrix dentipes</i>		0	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>		0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>		0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	452.052	0.455	0.456	0	28.807	0.028	52.609	0.055	
<i>Calanus propinquus</i>	5.781	0.009	0.228	0.001	17.078	0.036	6.282	0.016	
<i>Candacia falcifera</i>		0	0	0	0	0	0	0	0
<i>Candacia maxima</i>		0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>		0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>		0	0	0	0	0	0	0.087	0.002
<i>Euaugaptilus laticeps</i>		0	0	0	0	0	0	0	0
<i>Euaugaptilus magnus</i>		0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>		0	0	0	0.206	0.001	0.698	0.003	
<i>Euchaeta farrani</i>		0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>		0	0	0	0	0	0	0	0
<i>Euchirella rostromagna</i>		0	0	0	0	0	0	1.221	0.009
<i>Gaetanus antarcticus</i>		0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>		0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>		0	0	0	0	0	0	0.262	0.001
<i>Haloptilus ocellatus</i>	0.227	0	0	0	0.823	0.001	1.047	0.002	
<i>Haloptilus oxycephalus</i>		0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>		0	0	0	0	0	0	0	0
<i>Heterorhabdus farrani</i>		0	0	0	0	0	0	0.087	0
<i>Lucicutia macrocera</i>		0	0	0	0	0	0	0	0
<i>Lucicutia wolfendeni</i>		0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>		0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>		0	0	0	0	0	0	0.349	0.001
<i>Metridia princeps</i>		0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>		0	0	0	0	0	0	0	0
<i>Pleuromamma robusta</i>		0	0	0	0	0	0	1.919	0.005
<i>Pseudochirella hirsuta</i>		0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>		0	0	0	0	0	0	0	0
<i>Pseudochirella polypinna</i>		0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>		0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	109.159	0.113	0.114	0	7.819	0.014	44.844	0.159	
<i>Scaphocalanus affinis</i>		0	0	0	0	0	0	0	0
<i>Scaphocalanus magnus</i>		0	0	0	0	0	0	0	0
<i>Cyllopus lucasi</i>		0	0	0	0	0	0	0.174	0.005
<i>Hyperia macrocephala</i>		0	0	0	0	0	0	0	0
<i>Hyperiella dilatata</i>		0	0	0	0	0	0	0.174	0.001
<i>Hyperiella macronyx</i>		0	0	0	0	0	0	0	0
<i>Primno macropa</i>	0.227	0.009	0	0	0	0	0	0.174	0.001
<i>Thermisto gaudichaudii</i>	3.741	0.198	0.114	0.006	4.938	0.335	1.570	0.113	
Hyperiidae indet.	0	0	0	0	0	0	0	0	0
Gammaridae	0	0	0	0	0	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0.087	0
Mysida	0	0	0	0	0	0	0	0	0
Ostracoda	0	0	0	0	0	0	0	0	0
Decapoda	0	0	0	0	0	0	0	0	0
<i>Clio pyramidata</i>	0.567	0.128	0	0	0.412	0.080	0.174	0.051	
<i>Clione limacina</i>	0	0	0.342	0.109	0	0	0	0	0

STATION HAUL TYPE	79 T1	79 T2	80 S	81 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0	0
Gastropoda indet.	0	0	0	0	0	0	0	0
Cephalopoda	0	0	0	0	0	0	0.174	0.035
<i>Eukrohnia hamata</i>	35.706	0.048	0	0	1.852	0.004	6.805	0.028
<i>Sagitta gazellae</i>	0.227	0.015	0	0	5.350	0.202	8.550	1.197
<i>Sagitta marri</i>	1.474	0.009	0	0	0	0	0.262	0.001
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	3.741	0.009	0	0	0	0	0	0
<i>Phalacrotophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonella bongraini</i>	0	0	0	0	0	0	0.262	0.001
<i>Sagitella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0.113	0.074	0	0	0	0	0	0
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0.174	0.018
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0.087	0.001
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0.087	0.013
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0.227	0.034	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	0.453	0.273	0.114	0.059	0.206	0.001	37.951	4.826
<i>Atolla wyvillei</i>	0	0	0	0	0	0	0	0
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycoptis borchgrevinkii</i>	0	0	0	0	0	0	0	0
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0	0	0	0	0	0	0.174	0.097
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0	0.262	0.002
<i>Zanclognathia weldoni</i>	0	0	0	0	0	0	0	0
Hydromedusae indet.	0	0	0	0	0	0	2.268	0.102
Siphonophora Bracts	0	0	0	0	0	0	0	0.020
Siphonophora Nectophore	0	0	0	0	0	0	6.543	0.680
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	0
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelagonemertes rollestoni</i>	0	0	0	0	0	0	0	0
Appendicularia	0	0	0	0	0	0	0.523	0.001
<i>Bathylags antarcticus</i>	0	0	0	0	0	0	0	0
<i>Benthalbella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indet. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	0	0	0	0	0	0	0.349	0.078
<i>Gymnoscopelus braueri</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsu</i>	0	0	0	0	0.206	0.010	0.174	0.009
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0.087	0.117
Residue	0	0.082	0	0.017	0	0.035	0	0.067

STATION HAUL TYPE	82 S	82 D	83 S	84 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	7.243	0.303	0	0	4.637	0.155	1.134	0.054
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>	2.650	0.691	0.935	0.156	4.305	1.014	6.143	1.543
<i>Thysanoessa macrura</i>	32.326	2.064	0	0	8.114	0.465	1.890	0.189
<i>Euphausiid indet.</i>	0.883	0.014	0	0	0.166	0.004	0	0
<i>Amallothrix dentipes</i>	0	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>	0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	6.536	0.009	0.057	0	0	0	16.821	0.020
<i>Calanus propinquus</i>	4.946	0.014	0.125	0	0.166	0	27.878	0.066
<i>Candacia falcifera</i>	0	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0	0	0.023	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0.023	0	0	0	0	0
<i>Euaugaptilus laticeps</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	1.060	0.008	0.114	0.002	1.159	0.008	0.851	0.007
<i>Euchaeta farrani</i>	0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0	0	0.080	0	0	0	0	0
<i>Euchirella rostromagna</i>	0.707	0.007	0.034	0.001	0.662	0.005	0.567	0.005
<i>Gaetanus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	0	0	0.068	0	0	0	0.095	0
<i>Haloptilus ocellatus</i>	1.413	0.001	0	0	0.497	0	1.701	0.002
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0.177	0	0	0	0	0	0.095	0
<i>Heterorhabdus farrani</i>	0	0	0	0	0	0	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0	0	0	0
<i>Lucicutia wolfendeni</i>	0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	0	0	0	0	0	0	0	0
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0	0	0.023	0	0	0	0	0
<i>Pleuromamma robusta</i>	0	0	0.011	0	0	0	4.725	0.015
<i>Pseudochirella hirsuta</i>	0	0	0.080	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polypinna</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	38.686	0.123	1.699	0.010	17.387	0.058	45.266	0.052
<i>Scaphocalanus affinis</i>	0	0	0.011	0	0	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0.011	0	0	0	0	0
<i>Cyllopus lucasi</i>	9.009	0.302	0	0	0.166	0.048	0.756	0.102
<i>Hyperia macrocephala</i>	0	0	0.023	0	0	0	0	0
<i>Hyperiella dilatata</i>	0	0	0	0	0	0	0.662	0.005
<i>Hyperiella macronyx</i>	0	0	0.011	0.001	0	0	0	0
<i>Primno macropa</i>	0.530	0.004	0.125	0.004	0	0	0.189	0.001
<i>Themisto gaudichaudii</i>	0.707	0.045	0.011	0.001	46.531	2.779	7.844	0.563
Hyperiidae indet.	0	0	0	0	0	0	0.095	0.001
Gammaidae	0	0	0.468	0.006	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0.023	0.004	0	0	0	0
Ostracoda	0	0	0.103	0.024	0	0	0	0
Decapoda	0	0	0.023	0.002	0	0	0	0
<i>Clio pyramidata</i>	1.060	0.205	0.228	0.033	0.497	0.033	0.189	0.020
<i>Clione limacina</i>	0	0	0	0	0.166	0.027	0.095	0.004

STATION HAUL TYPE	82 S	82 D	83 S	84 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0.011	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0	0
Gastropoda indet.	0	0	0.011	0	0	0	0	0
Cephalopoda	0	0	0.057	0.034	0	0	0.284	0.138
<i>Eukrohnia hamata</i>	3.180	0.011	0.890	0.011	1.325	0.002	12.663	0.037
<i>Sagitta gazellae</i>	5.123	0.377	3.661	0.404	1.490	0.130	10.395	0.780
<i>Sagitta marri</i>	0	0	0.445	0.007	0	0	0.095	0
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	0.883	0.002	0	0	0	0	0	0
<i>Phalacrotophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonnerella bongraini</i>	0	0	0	0	0	0	0	0
<i>Sagittella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0.177	0.189	0.023	0.008	0	0	0.284	0.194
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0.189	0.002
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0.095	0.002
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0	0
<i>Vanadis</i> sp.	0.177	0.003	0	0	0	0	0	0
Alciopidae indet.	0	0	0.011	0	0	0	0	0
Polychaeta indet.	0	0	0.011	0.002	0	0	0	0
<i>Salpa thompsoni</i>	178.237	23.792	8.451	6.894	0	0	130.410	20.997
<i>Atolla wyvillei</i>	0	0	0.057	1.338	0	0	0	0
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0.011	0.045	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycopsis borchgrevinkii</i>	0	0	0.057	0.141	0	0	0	0
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0	0	0	0	0	0	0.095	0.113
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0	0.095	0.004
<i>Zanclognathaweldoni</i>	0	0	0	0	0	0	0	0
Hydromedusae indet.	0.177	0.001	0	0	0	0	0	0
Siphonophora Bracts	0	0	0	0	0	0	0	0
<i>Siphonophora Nectophore</i>	1.413	0.017	0.057	0.081	0	0	7.371	0.104
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	0
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelagonemertes rollestoni</i>	0	0	0.011	0.011	0	0	0	0
Appendicularia	0	0	0	0	0	0	0	0
<i>Bathyragus antarcticus</i>	0	0	0.080	0.297	0	0	0	0
<i>Benthalbella macropina</i>	0	0	0.011	0.337	0	0	0	0
Channichthyidae indet. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0.068	0.018	0	0	0	0
<i>Electrona antarctica</i>	0.353	0.074	0.011	0.003	0	0	0.662	1.310
<i>Gymnoscopelus braueri</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsi</i>	0.530	0.016	0.034	0.025	0	0	0	0
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	0
Residue	0	0.158	0	0.243	0	0.050	0	0.130

STATION HAUL TYPE	85 S	86 S1	86 S2	87 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	1.439	0.055	0	0	0	0	0	0
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>	0.411	0.101	0	0	0	0	0	0
<i>Thysanoessa macrura</i>	3.905	0.216	0.367	0.027	0.558	0.005	1.198	0.047
Euphausiid indet.	0	0	0	0	0	0	0.075	0
<i>Amallothrix dentipes</i>	0	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>	0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	0.617	0.001	0.184	0	9.481	0.013	4.903	0.007
<i>Calanus propinquus</i>	1.233	0.004	1.102	0.003	2.231	0.007	3.144	0.009
<i>Candacia falcifera</i>	0	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus laticeps</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	0.411	0.003	0.184	0.001	0	0	0	0
<i>Euchaeta farrani</i>	0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0	0	0	0	0	0	0	0
<i>Euchirella rostromagna</i>	0.411	0.003	0	0	0.186	0.001	0.037	0
<i>Gaetanus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	0.411	0.001	0	0	0	0	0	0
<i>Haloptilus ocellatus</i>	0.617	0.001	0.184	0	2.045	0.002	0.674	0.001
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0.206	0	0	0	0	0	0	0
<i>Heterorhabdus farrani</i>	0	0	0	0	0	0	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0	0	0	0
<i>Lucicutia wolfendeni</i>	0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>	0	0	0	0	0.372	0	0	0
<i>Metridia gerlachei</i>	0	0	0.184	0	0	0	0.037	0
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Pleuromamma robusta</i>	1.439	0.004	0.184	0.001	0.186	0.001	0	0
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polyspina</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	3.288	0.011	1.837	0.006	10.039	0.034	1.497	0.005
<i>Scaphocalanus affinis</i>	0	0	0	0	0	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Cylopus lucasi</i>	1.233	0.247	0	0	0	0	0.524	0.112
<i>Hyperia macrocephala</i>	0	0	0	0	0	0	0	0
<i>Hyperiella dilatata</i>	0	0	0	0	0	0	0.075	0.001
<i>Hyperiella macronyx</i>	0	0	0	0	0	0	0	0
<i>Primno macropa</i>	0	0	0	0	0	0	0.037	0.002
<i>Themisto gaudichaudii</i>	9.453	0.675	1.653	0.121	6.135	0.418	0.262	0.002
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaidae	0	0	0	0	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0	0	0	0	0	0
Ostracoda	0.206	0.002	0	0	0	0	0.299	0
Decapoda	0	0	0	0	0	0	0.374	0.019
<i>Clio pyramidata</i>	0.822	0.089	0.184	0.046	0.372	0.036	1.385	0.184
<i>Clione limacina</i>	0	0	0	0	0	0	0.037	0.012

STATION HAUL TYPE	85 S	86 S1	86 S2	87 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0.037	0.003
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0.037	0.012
Gastropoda indet.	0	0	0	0	0	0	0	0
Cephalopoda	0	0	0	0	0	0	0.112	0.040
<i>Eukrohnia hamata</i>	4.521	0.009	1.653	0.002	5.020	0.010	2.433	0.004
<i>Sagitta gazellae</i>	0.617	0.103	0.735	0.010	0.744	0.012	1.834	0.072
<i>Sagitta marri</i>	0.206	0.001	0	0	0.372	0.001	0.374	0.001
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	0	0	0	0	0	0	0	0
<i>Phalacrotophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonella bongraini</i>	0	0	0	0	0	0	0.075	0.001
<i>Sagitella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0	0	0	0	0.186	0.523	0	0
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0.037	0
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0.037	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0	0
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0	0	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	2.055	0.133	0	0	0	0	0	0
<i>Atolla wyvillei</i>	0	0	0	0	0	0	0.037	1.201
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycopsis borchgrevinkii</i>	0	0	0	0	0	0	0	0
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0	0	0	0	0	0	0	0
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0	0	0
<i>Zanclognathia weldoni</i>	0	0	0	0	0	0	0	0
Hydromedusae indet.	0	0	0	0	0.186	0.184	0	0
Siphonophora Bracts	0	0	0	0	0	0	0	0
Siphonophora Nectophore	0.411	0.002	0	0	1.115	0.004	3.893	0.960
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	0
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelagonemertes rollstoni</i>	0	0	0	0	0	0	0	0
Appendicularia	0	0	0	0	0	0	0	0
<i>Bathytagus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Benthalbella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indet. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0.037	0.074
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	0	0	0	0	0	0	0	0
<i>Gymnoscopelus braueri</i>	0.206	0.742	0	0	0	0	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsu</i>	0	0	0.367	0.002	0.186	0.006	0	0
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	0
Residue	0	0	0	0.006	0	0.177	0	0.016

STATION HAUL TYPE	87 D	88 S	88 D	89 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	0	0	0	0	0	0	0	0
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>	0	0	0	0	0	0	0	0
<i>Thysanoessa macrura</i>	2.956	0.193	3.080	0.172	2.030	0.185	8.197	0.684
Euphausiid indet.	0	0	0	0	0	0	0	0
<i>Amallothrix dentipes</i>	0.370	0	0	0	0	0	0	0
<i>Amallothrix emarginata</i>	0.739	0.002	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0.123	0.009	0	0	0	0	0	0
<i>Calanoides acutus</i>	21.308	0.052	52.899	0.068	22.021	0.040	40.501	0.057
<i>Calanus propinquus</i>	0.985	0.004	19.022	0.066	4.244	0.014	12.777	0.057
<i>Candacia falcifera</i>	0.123	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0.123	0.001	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus laticeps</i>	0.985	0.018	0	0	0.062	0.001	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	1.848	0.016	0.543	0.004	1.907	0.029	0.482	0.002
<i>Euchaeta farrani</i>	0.123	0.002	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0.862	0.005	0	0	0.123	0.001	0	0
<i>Euchirella rostromagna</i>	0	0	0	0	0.062	0.001	0	0
<i>Gaetanus antarcticus</i>	0.370	0.010	0	0	0.062	0.001	0	0
<i>Gaidius intermedius</i>	0.123	0.001	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	2.217	0.004	0	0	1.169	0.002	0	0
<i>Haloptilus ocellatus</i>	1.109	0.005	0.725	0.001	0.123	0.001	3.857	0.004
<i>Haloptilus oxycephalus</i>	0.123	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0.123	0	0	0	0.246	0.001	0	0
<i>Heterorhabdus farrani</i>	3.695	0.007	0	0	0.861	0.002	0	0
<i>Lucicutia macrocera</i>	0.246	0	0	0	0	0	0	0
<i>Lucicutia wolfendeni</i>	0	0	0	0	0.062	0.001	0	0
<i>Metridia curticauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	0.739	0.001	3.623	0.007	1.292	0.001	0.482	0.001
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0.862	0.007	0	0	0	0	0	0
<i>Pleuromamma robusta</i>	0.246	0	0	0	0	0	0	0
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polypinna</i>	0.123	0.002	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0.123	0.001	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	5.543	0.050	5.797	0.023	5.352	0.043	13.983	0.112
<i>Scaphocalanus affinis</i>	0.493	0.001	0	0	0.062	0	0	0
<i>Scaphocalanus magnus</i>	0.370	0.002	0	0	0.062	0	0	0
<i>Cylopis lucasi</i>	0	0	0	0	0	0	0	0
<i>Hyperia macrocephala</i>	0.370	0.001	0	0	0.123	0.001	0	0
<i>Hyperiella dilatata</i>	0	0	0.181	0.001	0	0	0	0
<i>Hyperiella macronyx</i>	0	0	0	0	0.062	0.011	0	0
<i>Primno macropa</i>	0.246	0.001	0.362	0.001	0.738	0.042	0.482	0.015
<i>Themisto gaudichaudii</i>	0	0	0	0	0	0	1.688	0.125
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaidae	0	0	0	0	0.123	0.009	0	0
Amphipod indet.	0.123	0	0	0	0	0	0	0
Mysida	0.862	0.023	0	0	0.185	0.024	0	0
Ostracoda	2.463	0.006	0	0	1.292	0.003	0	0
Decapoda	0.123	0.036	0	0	0.062	0.042	0.964	0.050
<i>Clio pyramidata</i>	10.716	2.492	5.072	1.109	0.062	0.012	1.446	0.364
<i>Clione limacina</i>	0	0	0.181	0.007	0.123	0.001	0.241	0.030

STATION HAUL TYPE	87 D	88 S	88 D	89 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0.181	0.120	0	0	0	0
Gastropoda indet.	0	0	0	0	0	0	0	0
Cephalopoda	0	0	0.362	0.067	0.062	0.004	0	0
<i>Eukrohnia hamata</i>	16.258	0.267	10.326	0.051	4.244	0.077	18.563	0.112
<i>Sagitta gazellae</i>	5.789	1.254	2.355	0.246	3.383	0.822	6.750	1.442
<i>Sagitta marri</i>	1.109	0.026	0.362	0.003	0.800	0.019	3.375	0.022
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	0	0	0	0	0	0	0	0
<i>Phalacrotophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonella bongraini</i>	0	0	0	0	0	0	0	0
<i>Sagitella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0	0	0	0	0	0	0	0
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0.123	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0.123	0.005	0	0	0.062	0.002	0	0
<i>Travisiopsis levinsi</i>	0	0	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0.241	0.099
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0.370	0.005	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	0.493	0.011	0	0	0.185	0.007	0	0
<i>Atolla wyvillei</i>	0	0	0	0	0.123	3.644	0	0
<i>Desmonema gaudicau</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0.062	0.692	0	0
<i>Calycopsis borchgrevinkii</i>	0.370	0.742	0	0	0	0	0	0
<i>Crossota brunnea</i>	0.246	0.048	0	0	0.185	0.007	0	0
<i>Pegantha martagon</i>	0	0	0.181	0.184	0	0	0	0
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0	0	0
<i>Zanclognathaweldoni</i>	0	0	0	0	0	0	0	0
Hydromedusae indet.	0.370	0.050	0	0	0.369	0.137	0	0
Siphonophora Bracts	0	0	0	0	0	0	0	0.003
<i>Siphonophora Nectophore</i>	3.818	0.319	1.449	0.182	2.030	0.233	9.643	1.518
<i>Beroe cucumis</i>	0	0	0	0	0.062	0.967	0.241	0.026
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelagonemertes rollastonii</i>	0	0	0	0	0.062	0.002	0	0
Appendicularia	0	0	0	0	0	0	0	0
<i>Bathylagus antarcticus</i>	0.616	1.345	0	0	0.246	0.168	0	0
<i>Benthalbella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indat. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	0.123	0.012	0	0	0.123	0.525	0	0
<i>Gymnoscopelus braueri</i>	0	0	0	0	0.123	0.326	0	0
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0	0	0	0	0	0	0	0
<i>Notolepis coatsi</i>	0.123	0.001	0	0	0	0	0.241	0.002
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	0
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	0
Residue	0	0.017	0	0.137	0	0.247	0	0.061

STATION HAUL TYPE	90 S	91 S	92 S	93 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	1.677	0.080	0	0	42.957	2.142	1.661	0.093
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0	0
<i>Euphausia triacantha</i>	0	0	0	0	0.311	0.066	0	0
<i>Thysanoessa macrura</i>	8.385	0.493	1.531	0.141	3.113	0.194	6.646	0.512
Euphausiid indet.	0	0	0	0	2.802	0.024	0	0
<i>Amalothrix dentipes</i>	0	0	0	0	0	0	0	0
<i>Amalothrix emarginata</i>	0	0	0	0	0	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	492.454	0.807	132.676	0.190	78.288	0.065	98.361	0.154
<i>Calanus propinquus</i>	148.686	0.482	46.096	0.128	273.152	0.556	20.381	0.051
<i>Candacia falcifera</i>	0	0	0	0	0	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0.111	0
<i>Cornucalanus chelifer</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus laticeps</i>	0	0	0	0	0	0	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0	0	0	0
<i>Euchaeta antarctica</i>	9.503	0.099	2.977	0.020	25.370	0.203	5.206	0.034
<i>Euchaeta farrani</i>	0	0	0	0	0	0	0	0
<i>Euchaeta rasa</i>	0	0	0	0	0	0	0	0
<i>Euchirella rostromagna</i>	5.031	0.039	0	0	4.202	0.028	3.101	0.023
<i>Gaetanus antarcticus</i>	0	0	0	0	0	0	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	2.236	0.005	0	0	0.778	0.002	3.545	0.008
<i>Haloptilus ocellatus</i>	7.267	0.007	0.510	0.001	1.245	0.001	3.877	0.003
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0.559	0.001	0	0	0	0	0.111	0
<i>Heterorhabdus farrani</i>	0	0	0	0	0	0	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0	0	0	0
<i>Lucicutia wolfendeni</i>	0	0	0	0	0	0	0	0
<i>Metridia curticauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	19.005	0.034	4.593	0.007	5.914	0.009	8.197	0.013
<i>Metridia princeps</i>	0	0	0	0	0	0	0	0
<i>Onchocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Pleuromamma robusta</i>	0.559	0.002	0	0	1.245	0.002	2.658	0.007
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella polypinna</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	183.343	1.284	12.672	0.050	9.961	0.022	47.630	0.075
<i>Scaphocalanus affinis</i>	0	0	0	0	0	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0	0	0	0	0	0
<i>Cylopus lucasi</i>	11.179	2.413	0.085	0.018	0.156	0.009	0.222	0.050
<i>Hyperia macrocephala</i>	0	0	0	0	0	0	0	0
<i>Hyperiella dilatata</i>	0	0	0	0	0.156	0.001	0	0
<i>Hyperiella macronyx</i>	0	0	0	0	0	0	0	0
<i>Primno macropa</i>	0	0	0.085	0.005	0	0	0	0
<i>Themisto gaudichaudii</i>	2.795	0.207	0	0	62.412	5.498	47.519	4.372
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaidae	0	0	0	0	0	0	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0	0	0	0	0	0
Ostracoda	0.559	0.004	0.085	0.001	0.623	0.001	0.332	0
Decapoda	0	0	0.085	0	0	0	0	0
<i>Clio pyramidata</i>	344.326	89.765	17.775	1.420	2.179	0.235	0.775	0.096
<i>Clione limacina</i>	0	0	0	0	0.156	0.004	0	0

STATION HAUL TYPE	90 S	91 S	92 S	93 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0	0
Gastropoda indet.	0	0	0	0	0	0	0	0
Cephalopoda	0	0	0	0	0.156	0.144	0	0
<i>Eukrohnia hamata</i>	78.256	0.546	3.147	0.032	0.467	0.003	2.658	0.021
<i>Sagitta gazellae</i>	13.974	3.511	1.276	0.037	2.023	0.523	2.658	0.293
<i>Sagitta marri</i>	2.795	0.014	0.595	0.006	0	0	0.775	0.004
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	6.149	0.018	2.041	0.009	0.467	0.001	0	0
<i>Phalacroforus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonella bongraini</i>	2.795	0.008	0	0	0	0	0	0
<i>Sagitella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0	0	0	0	0.156	0.008	0	0
<i>Tomopteris cavallii</i>	4.472	0.068	0	0	0	0	0.222	0.002
<i>Tomopteris septentrionalis</i>	0.559	0.011	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0	0	0	0	0
<i>Travisiopsis levinseni</i>	0.559	0.004	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0	0
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0	0	0	0	0	0	0	0
Polychaeta indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	1.677	0.374	0	0	0.311	0.088	0.443	0.496
<i>Atolla wyvillei</i>	0	0	0	0	0	0	0	0
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	0
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	0
<i>Aegina citrea</i>	0	0	0	0	0	0	0	0
<i>Calycopsis borchgrevinkii</i>	1.118	0.357	0.085	0.014	0	0	0.222	0.411
<i>Crossota brunnea</i>	0	0	0	0	0	0	0	0
<i>Pegantha martagon</i>	0.559	0.417	0.085	0.030	0	0	0.222	0.082
<i>Solmundella bitentaculata</i>	0.559	0.009	0	0	0	0	0	0
<i>Zanclonia waldoni</i>	0	0	0	0	0	0	0.111	0.026
Hydromedusae indet.	0.559	0.002	0	0	0	0	0	0
Siphonophora Bracts	0	0.396	0	0	0	0.030	0	0.006
Siphonophora Nectophore	19.564	4.198	2.211	0.477	0	0	1.994	0.658
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	0
<i>Callianira cristata</i>	0	0	0	0	0	0	0	0
<i>Pleurabrachia pileus</i>	0	0	0	0	0	0	0	0
<i>Pelagonemertes rollastonii</i>	0	0	0	0	0	0	0	0
Appendicularia	2.795	0.003	0.170	0	0	0	0	0
<i>BathyLAGUS antarcticus</i>	0	0	0	0	0	0	0	0
<i>Benthalabella macropina</i>	0	0	0	0	0	0	0	0
Channichthyidae indet. larva	0	0	0	0	0	0	0	0
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	0
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	0
<i>Cyclothona</i> sp.	0	0	0	0	0	0	0	0
<i>Electrona antarctica</i>	2.795	5.757	0	0	0.467	0.237	0.443	0.103
<i>Gymnoscopelus braueri</i>	0	0	0	0	0	0	0.222	0.469
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	0
Myctophid larva	0.559	0.006	0	0	0	0	0	0
<i>Notolepis coatsi</i>	0	0	0.085	0.001	0	0	0	0
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	0
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	0
<i>Protomyctophum boini</i>	0	0	0	0	0	0	0	0
Residue	0	0.883	0	0.091	0	0.257	0	0

STATION HAUL TYPE	94 S	95 S	95 D	96 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Euphausia frigida</i>	0	0	0	0	0	0	0	0
<i>Euphausia crystallorophias</i>	0	0	0	0	0	0	0.581	0.009
<i>Euphausia triacantha</i>	0	0	0	0	0	0	0	0
<i>Thysanoessa macrura</i>	6.501	0.140	0.595	0.029	1.000	0.072	6.971	0.592
Euphausiid indet.	0	0	0	0	0	0	0	0
<i>Amalothrix dentipes</i>	0	0	0	0	0.114	0	0	0
<i>Amalothrix emarginata</i>	0	0	0	0	0.029	0	0	0
<i>Bathycalanus bradyi</i>	0	0	0	0	0	0	0	0
<i>Calanoides acutus</i>	395.377	0.716	238.478	0.395	31.529	0.058	91.490	0.085
<i>Calanus propinquus</i>	158.680	0.486	65.715	0.147	4.427	0.010	82.196	0.251
<i>Candacia falcifera</i>	0	0	0	0	0.086	0	0	0
<i>Candacia maxima</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus chelifer</i>	0	0	0	0	0	0	0	0
<i>Cornucalanus robustus</i>	0	0	0	0	0.114	0.001	0	0
<i>Euaugaptilus laticeps</i>	0	0	0	0	0.171	0.002	0	0
<i>Euaugaptilus magnus</i>	0	0	0	0	0.086	0.001	0	0
<i>Euchaeta antarctica</i>	0.482	0.001	2.676	0.007	1.257	0.015	29.625	0.229
<i>Euchaeta farrani</i>	0	0	0	0	0.029	0	0	0
<i>Euchaeta rasa</i>	0	0	0	0	0.086	0	0	0
<i>Euchirella rostromagna</i>	0	0	0	0	0.057	0.001	0	0
<i>Gaetanus antarcticus</i>	0	0	0	0	0.057	0.001	0	0
<i>Gaidius intermedius</i>	0	0	0	0	0	0	0	0
<i>Gaidius tenuispinus</i>	0	0	0	0	1.342	0.002	0	0
<i>Haloptilus ocellatus</i>	0.722	0.001	2.974	0.003	0.029	0	0.290	0
<i>Haloptilus oxycephalus</i>	0	0	0	0	0	0	0	0
<i>Heterorhabdus austrinus</i>	0	0	0	0	0.228	0	0.290	0.001
<i>Heterorhabdus farrani</i>	0	0	0	0	0.657	0.001	0	0
<i>Lucicutia macrocera</i>	0	0	0	0	0.086	0	0	0
<i>Lucicutia wolfendoni</i>	0	0	0	0	0.143	0	0	0
<i>Metridia curtauda</i>	0	0	0	0	0	0	0	0
<i>Metridia gerlachei</i>	1.926	0.003	8.921	0.013	0.914	0.001	42.986	0.072
<i>Metridia princeps</i>	0	0	0	0	0.029	0.001	0	0
<i>Onchocalanus magnus</i>	0	0	0	0	0.200	0.002	0	0
<i>Pleuromamma robusta</i>	0	0	1.784	0.005	0.029	0	0	0
<i>Pseudochirella hirsuta</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella mawsoni</i>	0	0	0	0	0.029	0.001	0	0
<i>Pseudochirella polypspina</i>	0	0	0	0	0	0	0	0
<i>Pseudochirella pustulifera</i>	0	0	0	0	0	0	0	0
<i>Rhincalanus gigas</i>	22.393	0.088	34.790	0.088	2.999	0.023	1.162	0.008
<i>Scaphocalanus affinis</i>	0	0	0	0	0.171	0	0	0
<i>Scaphocalanus magnus</i>	0	0	0	0	0.114	0	0	0
<i>Cyllopus lucasi</i>	0	0	5.352	1.386	0	0	0	0
<i>Hyperia macrocephala</i>	0	0	0	0	0.029	0	0	0
<i>Hyperiella dilatata</i>	0	0	0	0	0	0	0	0
<i>Hyperiella macronyx</i>	0	0	0	0	0.029	0.007	0	0
<i>Primno macropa</i>	0.241	0.014	0.595	0.032	0.143	0.004	0	0
<i>Themisto gaudichaudii</i>	0.963	0.107	0.297	0.023	0.029	0.003	0	0
Hyperiidae indet.	0	0	0	0	0	0	0	0
Gammaridae	0	0	0	0	0.228	0.054	0	0
Amphipod indet.	0	0	0	0	0	0	0	0
Mysida	0	0	0	0	0	0	0	0
Ostracoda	0	0	0.297	0.002	1.114	0.002	2.614	0.003
Decapoda	0.241	+	0	0	0.029	0.051	0	0
<i>Clio pyramidata</i>	15.170	3.605	1.784	0.286	0	0	4.357	0.992
<i>Clione limacina</i>	0	0	0	0	0.057	0.010	0	0

STATION HAUL TYPE	94 S	95 S	95 D	96 S				
TAXA	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.	DENS.	BIOM.
<i>Limacina helicina</i>	0	0	0	0	0	0	0	0
<i>Spongibranchaea australis</i>	0	0	0	0	0	0	0	0
Gastropoda indet.	0	0	0	0	0	0	0.290	+
Cephalopoda	0	0	0	0.029	0.027	0	0	0
<i>Eukrohnia hamata</i>	10.595	0.071	13.976	0.076	3.970	0.052	8.713	0.058
<i>Sagitta gazellae</i>	2.649	0.759	2.081	0.754	2.313	0.329	1.452	0.192
<i>Sagitta marri</i>	1.204	0.010	1.487	0.010	0.971	0.022	1.162	0.013
<i>Sagitta maxima</i>	0	0	0	0	0	0	0	0
Chaetognatha indet.	0	0	0	0	0	0	0	0
<i>Phalacrophorus pictus</i>	0	0	0	0	0	0	0	0
<i>Rhynchonerella bongraini</i>	0	0	0	0	0	0	0	0
<i>Sagitella kowalevskii</i>	0	0	0	0	0	0	0	0
<i>Tomopteris carpenteri</i>	0	0	0	0	0	0	0	0
<i>Tomopteris cavallii</i>	0	0	0	0	0	0	0.290	0.006
<i>Tomopteris septentrionalis</i>	0	0	0	0	0	0	0	0
<i>Tomopteris</i> sp.	0	0	0	0	0	0	0	0
<i>Travisiopsis coniceps</i>	0	0	0	0.200	0.009	0	0	0
<i>Travisiopsis levinseni</i>	0	0	0	0	0	0	0	0
<i>Vanadis antarctica</i>	0	0	0	0	0	0	0	0
<i>Vanadis longissima</i>	0	0	0	0	0	0	0	0
<i>Vanadis</i> sp.	0	0	0	0	0	0	0	0
Alciopidae indet.	0	0	0	0	0	0	0	0
Polychaetae indet.	0	0	0	0	0	0	0	0
<i>Salpa thompsoni</i>	0	0	0	0.057	0.007	3.195	1.738	
<i>Atolla wyvillei</i>	0	0	0	0.057	1.675	0	0	
<i>Desmonema gaudicaudi</i>	0	0	0	0	0	0	0	
<i>Periphylla periphylla</i>	0	0	0	0	0	0	0	
<i>Aegina citrea</i>	0	0	0	0	0	0	0	
<i>Calycopsis borchgraevinkii</i>	0	0	0	0	0	0.290	0.246	
<i>Crossota brunnea</i>	0	0	0	0.286	0.022	0	0	
<i>Pegantha martagon</i>	0	0	0	0	0	0	0	
<i>Solmundella bitentaculata</i>	0	0	0	0	0	0.290	0.006	
<i>Zanclognathaweldoni</i>	0	0	0	0	0	0	0	
Hydromedusae indet.	0	0	0	0.057	5.153	0	0	
Siphonophora Bracts	0	0	0	0	0	0	0.153	
<i>Siphonophora Nectophore</i>	0.963	0.008	2.379	0.468	0.371	0.054	0	0
<i>Beroe cucumis</i>	0	0	0	0	0	0	0	
<i>Callianira cristata</i>	0	0	0	0	0	0	0.290	1.022
<i>Pleurabrachia pileus</i>	0	0	0	0	0.114	0.016	0	0
<i>Pelagoneuriites rollstoni</i>	0	0	0	0	0.029	0.001	0	0
Appendicularia	0.963	0.001	2.379	0.002	0	0	0.290	0
<i>Bathylagus antarcticus</i>	0	0	0	0	0.343	2.311	0	
<i>Benthalabella macropina</i>	0	0	0	0	0	0	0	
Channichthyidae incet. larva	0	0	0	0	0	0	0	
<i>Chionodraco myersi</i>	0	0	0	0	0	0	0	
<i>Cryodraco antarcticus</i>	0	0	0	0	0	0	0	
<i>Cyclothona</i> sp.	0	0	0	0	0.057	0.014	0	
<i>Electrona antarctica</i>	0	0	0	0	0.086	0.011	0	
<i>Gymnoscopelus braueri</i>	0	0	0	0	0	0	0	
<i>Gymnoscopelus nicholsi</i>	0	0	0	0	0	0	0	
Myctophid larva	0	0	0	0	0	0	0	
<i>Notolepis coatsi</i>	0	0	0	0	0.057	0.030	0	
<i>Pagetopsis maculatus</i>	0	0	0	0	0	0	0	
<i>Pleuragramma antarcticum</i>	0	0	0	0	0	0	0	
<i>Protomyctophum bolini</i>	0	0	0	0	0	0	0	
Residue	0	0.053	0	0.054	0	0.097	0	0.257

Data from Station 58 T1 are not presented as *Euphausia superba* was the only species caught (see Table 2). Haul Type: S,D,T, refer to shallow, deep and target hauls. DENS.: density as No. 1000 m<sup>-3</sup>. BIOM.: biomass as g. 1000 m<sup>-3</sup>. + <0.001 g. 1000 m<sup>-3</sup>. Indet.: Indeterminable

Table 9. RMT 1 sampling data

STN NO.	HAUL TYPE	VOLUME FILTERED (m <sup>-3</sup> )	TOTAL BIOMASS (g. 1000m <sup>-3</sup> )
65	S	1725	25.65
66	S	728	10.95
68	T1	707	19.43
	T2	583	205.78
69	S	720	24.63
70	S	427	7.63
	D	1844	3.74
71	S	633	18.40
72	S	1049	12.95
73	S	368	53.00
74	S	944	16.11
75	S	2066	37.40
78	S	630	9.70
79	T1	617	83.73
	T2	983	31.79
80	S	548	4.22
81	S	821	57.10
82	S	610	4.98
	D	8957	10.29
83	S	651	18.53
84	S	1157	71.80
85	S	510	15.96
86	S1	582	6.98
	S2	583	11.47
87	S	2232	10.68
	D	897	32.03
88	S	614	57.51
	D	1810	22.05
89	S	459	36.73
90	S	706	70.31
91	S	1124	42.95
92	S	706	118.58
93	S	968	73.00
94	S	465	133.98
95	S	378	85.63
	D	3480	3.87
96	S	392	115.97

Haul Type: S,D,T, refer to shallow, deep and target hauls.

Table 10. RMT 1 euphausiid larvae data: developmental stages vs. densities (No. 1000 m<sup>-3</sup>).

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
65	S	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	16.23	—	—
		FI	—	44.06	—	1.16
		FII	—	4.64	—	2.32
		FIII	—	—	—	—
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	—
		BF	—	3.48	—	—
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
66	S	N	—	—	—	—
		MN	—	—	—	—
		CI	12.36	—	—	—
		CII	12.36	—	—	—
		CIII	2.75	4.12	—	—
		FI	—	—	—	2.75
		FII	—	4.12	—	2.75
		FIII	—	—	—	1.37
		FIV	—	—	—	5.49
		FV	—	—	—	5.49
		FVI	—	—	—	1.37
		BF	—	—	—	1.37
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
68	T1	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	4.24	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	1.41	—	—
		FV	—	—	—	—
		FVI	—	—	—	—
		BF	—	5.66	—	—

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
68	T2	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	1.72	—	—
		CIII	—	8.58	—	—
		FI	—	120.07	—	—
		FII	—	180.10	—	1.72
		FIII	—	938.25	—	3.43
		FIV	—	1.72	—	3.43
		FV	—	—	—	1.72
		FVI	—	—	—	—
		BF	—	—	—	46.31
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
69	S	N	—	—	—	—
		MN	—	—	—	—
		CI	2811.11	—	—	—
		CII	22.22	—	—	—
		CIII	5.56	—	—	—
		FI	—	8.33	—	2.78
		FII	—	166.67	—	5.56
		FIII	—	13.89	—	2.78
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	5.56
		BF	—	16.67	—	—
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
70	S	N	—	—	—	—
		MN	—	—	—	—
		CI	1337.24	—	—	—
		CII	30.44	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	9.37	—	—
		FIII	—	—	—	—
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	—
		BF	—	7.03	—	—

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
70	D	N	—	—	—	—
	MN	943.60	—	—	—	—
	CI	338.39	—	—	—	—
	CII	16.27	—	—	—	—
	CIII	—	—	—	—	—
	FI	—	—	—	—	—
	FII	—	—	—	—	—
	FIII	—	—	—	—	—
	FIV	—	—	—	—	—
	FV	—	—	—	—	—
	FVI	—	—	—	—	—
	BF	—	—	—	—	—
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
71	S	N	—	—	—	—
	MN	246.45	—	—	—	—
	CI	105.85	—	—	—	—
	CII	7.90	—	—	—	—
	CIII	—	—	—	—	—
	FI	—	—	—	—	—
	FII	—	—	—	—	—
	FIII	—	—	—	—	1.58
	FIV	—	—	—	—	—
	FV	—	—	—	—	—
	FVI	—	—	—	—	3.16
	BF	—	—	—	—	—
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
72	S	N	—	—	—	—
	MN	0.95	—	—	—	—
	CI	0.95	—	—	—	—
	CII	—	—	—	—	2.86
	CIII	—	—	—	—	2.86
	FI	—	—	—	—	1.91
	FII	—	—	—	—	0.95
	FIII	—	—	—	—	—
	FIV	—	—	—	—	2.86
	FV	—	—	—	—	—
	FVI	—	—	—	—	11.44
	BF	—	—	—	—	8.58

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
73	S	N	—	—	—	—
		MN	—	—	—	—
		CI	2.72	—	—	—
		CII	16.30	—	—	—
		CIII	27.17	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	—	—	—
		FV	—	—	—	5.43
		FVI	—	—	—	—
		BF	—	—	—	—
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
74	S	N	—	—	—	—
		MN	—	—	—	—
		CI	1.06	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	3.18
		FII	—	—	—	1.06
		FIII	—	—	—	3.18
		FIV	—	—	—	3.18
		FV	—	—	—	3.18
		FVI	—	—	—	5.30
		BF	—	—	—	8.47
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
75	S	N	—	—	—	—
		MN	—	—	—	—
		CI	0.48	—	—	—
		CII	—	—	—	—
		CIII	0.48	—	—	0.48
		FI	—	—	—	1.45
		FII	—	—	—	0.48
		FIII	—	—	—	0.97
		FIV	—	—	—	1.94
		FV	—	—	—	1.45
		FVI	—	—	—	0.97
		BF	—	—	—	4.84

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
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78	S	N	—	—	—	—
		MN	—	—	—	—
		CI	20.63	—	—	—
		CII	6.35	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	3.17
		FII	—	—	—	—
		FIII	—	—	—	1.59
		FIV	—	—	—	—
		FV	—	—	—	4.76
		FVI	—	—	—	1.59
		BF	—	—	—	4.76

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
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79	T1	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	30.79
		FII	—	—	—	12.97
		FIII	—	—	—	4.86
		FIV	—	—	—	19.45
		FV	—	—	—	8.10
		FVI	—	—	—	27.55
		BF	—	—	—	—

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
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79	T2	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	1.02
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	2.03
		FII	—	—	—	1.02
		FIII	—	—	—	1.02
		FIV	—	—	—	7.12
		FV	—	—	—	25.43
		FVI	—	—	—	114.95
		BF	—	—	—	2.03

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
80	S	N	—	—	—	—
		MN	—	—	—	—
		CI	1.82	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	—	—	1.82
		FV	—	—	—	3.65
		FVI	—	—	—	16.42
		BF	—	—	—	16.42
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
81	S	N	—	—	—	—
		MN	—	—	—	—
		CI	1.22	—	—	—
		CII	4.87	—	2.44	1.22
		CIII	1.22	—	1.22	1.22
		FI	1.22	—	—	34.10
		FII	1.22	—	—	7.31
		FIII	—	—	—	9.74
		FIV	—	—	—	14.62
		FV	—	—	—	14.62
		FVI	—	—	—	62.12
		BF	—	—	—	45.07
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
82	S	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	4.92
		FII	—	—	—	4.92
		FIII	—	—	—	—
		FIV	—	—	—	1.64
		FV	—	—	—	1.64
		FVI	—	—	—	3.28
		BF	—	—	—	—

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
82	D	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	—	—	5.36
		FV	—	—	—	10.72
		FVI	—	—	—	54.93
		BF	—	—	—	178.18
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
83	S	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	4.61
		FIV	—	—	—	1.54
		FV	—	—	—	3.07
		FVI	—	—	—	9.22
		BF	—	—	—	10.75
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
84	S	N	—	—	—	—
		MN	—	—	—	—
		CI	—	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	1.73	—
		FII	3.46	—	—	3.46
		FIII	—	—	—	5.19
		FIV	—	—	—	6.91
		FV	—	—	—	24.20
		FVI	—	—	—	117.55
		BF	—	—	—	126.19

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
85	S	N	—	—	—	—
		MN	—	—	—	—
		CI	47.06	—	—	—
		CII	3.92	—	1.96	—
		CIII	—	—	—	—
		FI	—	—	—	7.84
		FII	—	—	—	—
		FIII	—	—	—	3.92
		FIV	—	—	—	11.76
		FV	—	—	—	9.80
		FVI	—	—	—	29.41
		BF	—	—	—	17.65
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
86	S1	N	—	—	—	—
		MN	—	—	—	—
		CI	1.72	—	—	—
		CII	1.72	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	1.72
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	6.87
		BF	—	—	—	6.87
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
86	S2	N	—	—	—	—
		MN	—	—	—	—
		CI	1.72	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	5.15
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	3.43
		BF	—	—	—	5.15

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
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87	S	N	—	—	—	—
		MN	—	—	—	—
		CI	0.90	—	—	—
		CII	—	—	—	—
		CIII	—	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	—	—	1.34
		FV	—	—	—	—
		FVI	—	—	—	2.69
		BF	—	—	—	1.34

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
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88	S	N	—	—	—	—
		MN	—	—	—	—
		CI	35700.33	—	—	—
		CII	1335.50	—	—	—
		CIII	117.26	—	—	—
		FI	—	—	—	32.57
		FII	6.51	—	—	6.51
		FIII	—	—	—	32.57
		FIV	—	—	—	104.23
		FV	—	—	—	201.95
		FVI	—	—	—	859.93
		BF	—	—	—	384.36

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
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88	D	N	437.57	—	—	—
		MN	—	—	—	—
		CI	9361.33	—	—	—
		CII	1120.44	—	—	—
		CIII	33.15	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	6.63
		BF	—	—	—	—

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
89	S	N	—	—	—	—
		MN	313.73	—	—	—
		CI	6657.95	—	—	—
		CII	1263.62	—	—	—
		CIII	52.29	—	—	—
		FI	—	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	—
		FIV	—	—	—	—
		FV	—	—	—	—
		FVI	—	—	—	26.14
		BF	—	—	—	43.57
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
90	S	N	—	—	—	—
		MN	—	—	—	—
		CI	47762.04	—	—	—
		CII	14175.64	—	—	—
		CIII	900.85	—	—	—
		FI	237.96	—	—	33.99
		FII	—	—	—	67.99
		FIII	—	—	—	84.99
		FIV	—	—	—	67.99
		FV	—	—	—	33.99
		FVI	—	—	—	135.98
		BF	—	—	—	50.99
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
91	S	N	—	—	—	—
		MN	—	—	—	—
		CI	4793.59	—	—	—
		CII	6234.88	—	—	—
		CIII	555.16	—	—	—
		FI	149.47	—	—	53.38
		FII	—	—	—	—
		FIII	—	—	—	10.68
		FIV	—	—	—	32.03
		FV	—	—	—	21.35
		FVI	—	—	—	149.47
		BF	—	—	—	138.79

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
92	S	N	—	—	—	—
		MN	—	—	—	—
		CI	1869.69	—	—	—
		CII	339.94	—	—	—
		CIII	118.98	—	—	—
		FI	84.99	—	—	17.00
		FII	50.99	—	—	—
		FIII	—	—	—	50.99
		FIV	17.00	—	—	84.99
		FV	—	—	—	—
		FVI	—	—	—	33.99
		BF	—	—	—	101.98
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
93	S	N	—	—	—	—
		MN	—	—	—	—
		CI	60446.28	—	—	—
		CII	5404.96	—	—	—
		CIII	929.75	—	—	—
		FI	272.73	—	—	24.79
		FII	12.40	—	—	—
		FIII	—	—	—	24.79
		FIV	—	—	—	86.78
		FV	—	—	—	86.78
		FVI	—	—	—	210.74
		BF	—	—	—	86.78
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
94	S	N	—	—	—	—
		MN	—	—	—	—
		CI	7767.74	—	—	—
		CII	9961.29	—	—	—
		CIII	825.81	—	—	—
		FI	103.23	—	—	—
		FII	—	—	—	25.81
		FIII	—	—	—	51.61
		FIV	—	—	—	180.65
		FV	—	—	—	154.84
		FVI	—	—	—	309.68
		BF	—	—	—	258.06

STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
95	S	N	—	—	—	—
		MN	—	—	—	—
		CI	90253.97	—	—	—
		CII	15936.51	—	—	—
		CIII	7777.78	—	—	—
		FI	1333.33	—	—	31.75
		FII	63.49	—	—	31.75
		FIII	—	—	—	63.49
		FIV	—	—	—	95.24
		FV	—	—	—	158.73
		FVI	—	—	—	222.22
		BF	—	—	—	412.70
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
95	D	N	10.34	—	—	—
		MN	55.17	—	—	—
		CI	472.41	—	—	—
		CII	72.41	—	—	—
		CIII	22.41	—	—	—
		FI	10.34	—	—	1.72
		FII	—	—	—	—
		FIII	—	—	—	1.72
		FIV	—	—	—	—
		FV	—	—	—	1.72
		FVI	—	—	—	—
		BF	—	—	—	—
STN. NO.	HAUL TYPE	STAGE	<i>Euphausia superba</i>	<i>Euphausia crystallorophias</i>	<i>Euphausia frigida</i>	<i>Thysanoessa macrura</i>
96	S	N	—	—	—	—
		MN	—	—	—	—
		CI	1071.43	—	—	—
		CII	23234.69	—	—	—
		CIII	2510.20	—	—	—
		FI	520.41	—	—	—
		FII	—	—	—	—
		FIII	—	—	—	61.22
		FIV	—	—	—	30.61
		FV	—	—	—	153.06
		FVI	—	—	—	61.22
		BF	—	—	—	275.51

No euphausiid larvae were caught in the Station 87 deep haul. N: nauplius. MN: metanauplius. C: calyptopis. F: furcilia. BF: broken (damaged) furcilia that could not be classified to a particular stage. Haul Type: S,D,T, refer to shallow, deep and target hauls.

## 5. ORGANISMS CAUGHT

<i>Aegina citrea</i>	Hydromedusae: Narcomedusae
<i>Alciopidae</i>	Polychaeta
<i>Amallothrix dentipes</i>	Copepoda: Calanoida
<i>Amallothrix emarginata</i>	Copepoda: Calanoida
<i>Atolla wyvillei</i>	Scyphozoa: Coronatae
<i>Bathycalanus bradyi</i>	Copepoda: Calanoida
<i>Bathylagus antarcticus</i>	Osteichthyes: Bathylagidae
<i>Benthalbella macropinna</i>	Osteichthyes: Scopelarchidae
<i>Beroe cucunis</i>	Ctenophora: Beroidae
<i>Calanoides acutus</i>	Copepoda: Calanoida
<i>Calanus propinquus</i>	Copepoda: Calanoida
<i>Callianira cristata</i>	Ctenophora: Cydippida
<i>Calycopsis borchgrevinki</i>	Hydromedusae: Anthomedusae
<i>Candacia falcifera</i>	Copepoda: Calanoida
<i>Candacia maxima</i>	Copepoda: Calanoida
<i>Cephalopoda</i>	Mollusca
<i>Chionodraco myersi</i>	Osteichthyes: Channichthyidae
<i>Clio pyramidata</i>	Gastropoda: Thecosomata
<i>Cione limacina</i>	Gastropoda: Gymnosomata
<i>Cornucalanus chelifer</i>	Copepoda: Calanoida
<i>Cornucalanus robustus</i>	Copepoda: Calanoida
<i>Crossota brunnea</i>	Hydromedusae: Trachymedusae
<i>Cryodraco antarcticus</i>	Osteichthyes: Channichthyidae
<i>Cyclothona</i> sp.	Osteichthyes: Gonostomatidae
<i>Cyllopus lucasi</i>	Amphipoda: Hyperiidae
<i>Decapoda</i>	Crustacea
<i>Desmonema gaudicauddi</i>	Scyphomedusae: Semaeostomeae
<i>Electrona antarctica</i>	Osteichthyes: Myctophidae
<i>Euaugaptilus laticeps</i>	Copepoda: Calanoida
<i>Euaugaptilus magnus</i>	Copepoda: Calanoida
<i>Euchaeta antarctica</i>	Copepoda: Calanoida
<i>Euchaeta farrani</i>	Copepoda: Calanoida
<i>Euchaeta rasa</i>	Copepoda: Calanoida
<i>Euchirella rostromagna</i>	Copepoda: Calanoida
<i>Eukrohnia hamata</i>	Chaetognatha: Eukrohniidae
<i>Euphausia crystallorophias</i>	Crustacea: Euphausiacea
<i>Euphausia frigida</i>	Crustacea: Euphausiacea
<i>Euphausia superba</i>	Crustacea: Euphausiacea
<i>Euphausia triacantha</i>	Crustacea: Euphausiacea
<i>Gaetanus antarcticus</i>	Copepoda: Calanoida
<i>Gaidius intermedius</i>	Copepoda: Calanoida
<i>Gaidius tenuispinus</i>	Copepoda: Calanoida
<i>Gammaridea</i>	Amphipoda
<i>Gastropoda</i>	Mollusca
<i>Gymnoscopelus braueri</i>	Osteichthyes: Myctophidae
<i>Gymnoscopelus nicholsi</i>	Osteichthyes: Myctophidae
<i>Haloptilus ocellatus</i>	Copepoda: Calanoida
<i>Haloptilus oxycephalus</i>	Copepoda: Calanoida
<i>Heterorhabdus austrinius</i>	Copepoda: Calanoida
<i>Heterorhabdus farrani</i>	Copepoda: Calanoida
<i>Hyperia macrocephala</i>	Amphipoda: Hyperiidae
<i>Hyperiella dilatata</i>	Amphipoda: Hyperiidae

<i>Hyperiella macronyx</i>	Amphipoda: Hyperiidae
<i>Hyperiidae</i>	Amphipoda
<i>Limacina helicina</i>	Gastropoda: Thecosomata
<i>Lucicutia macrocera</i>	Copepoda: Calanoida
<i>Lucicutia wolfendeni</i>	Copepoda: Calanoida
<i>Metridia curticauda</i>	Copepoda: Calanoida
<i>Metridia gerlachei</i>	Copepoda: Calanoida
<i>Metridia princeps</i>	Copepoda: Calanoida
<i>Mysida</i>	Crustacea
<i>Notolepis coatsi</i>	Osteichthyes: Paralepididae
<i>Onchocalanus magnus</i>	Copepoda: Calanoida
<i>Ostracoda</i>	Crustacea
<i>Themisto gaudichaudi</i>	Amphipoda: Hyperiidae
<i>Pagetopsis maculatus</i>	Osteichthyes: Channichthyidae
<i>Pegantha martagon</i>	Hydromedusae: Narcomedusae
<i>Pelagonemertes rollestoni</i>	Nemertea: Polystilifera
<i>Periphylla periphylla</i>	Scyphomedusae: Coronatae
<i>Phalacrotophorus pictus</i>	Polychaeta: Iospilidae
<i>Pleurabrachia pileus</i>	Ctenophora: Cydippida
<i>Pleuragramma antarcticum</i>	Osteichthyes: Nototheniidae
<i>Pleuroamma robusta</i>	Copepoda: Calanoida
<i>Primno macropa</i>	Amphipoda: Hyperiidae
<i>Protomyctophum bolini</i>	Osteichthyes: Myctophidae
<i>Pseudochirella hirsuta</i>	Copepoda: Calanoida
<i>Pseudochirella mawsoni</i>	Copepoda: Calanoida
<i>Pseudochirella polypinna</i>	Copepoda: Calanoida
<i>Pseudochirella pustulifera</i>	Copepoda: Calanoida
<i>Rhincalanus gigas</i>	Copepoda: Calanoida
<i>Rhynchonerella bongraini</i>	Polychaeta: Alciopidae
<i>Sagitella kowalevskii</i>	Polychaeta: Typhloscolecidae
<i>Sagitta gazellae</i>	Chaetognatha: Sagittidae
<i>Sagitta marri</i>	Chaetognatha: Sagittidae
<i>Sagitta maxima</i>	Chaetognatha: Sagittidae
<i>Salpa thompsoni</i>	Tunicata: Salpida
<i>Scaphocalanus affinis</i>	Copepoda: Calanoida
<i>Scaphocalanus magnus</i>	Copepoda: Calanoida
<i>Siphonophora</i> (bracts)	Scyphozoa
<i>Siphonophora</i> (nectophore)	Scyphozoa
<i>Solmundella bitentaculata</i>	Hydromedusae: Narcomedusae
<i>Spongiobranchaea australis</i>	Gastropoda: Gymnosomata
<i>Thysanoessa macrura</i>	Crustacea: Euphausiacea
<i>Tomopteris carpenteri</i>	Polychaeta: Tomopteridae
<i>Tomopteris cavallii</i>	Polychaeta: Tomopteridae
<i>Tomopteris septentrionalis</i>	Polychaeta: Tomopteridae
<i>Tomopteris</i> sp.	Polychaeta: Tomopteridae
<i>Travisiopsis coniceps</i>	Polychaeta: Typhloscolecidae
<i>Travisiopsis levinseni</i>	Polychaeta: Typhloscolecidae
<i>Vanadis antarctica</i>	Polychaeta: Alciopidae
<i>Vanadis longissima</i>	Polychaeta: Alciopidae
<i>Vanadis</i> sp.	Polychaeta: Alciopidae
<i>Zanclonia weldoni</i>	Hydromedusae: Anthomedusae

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