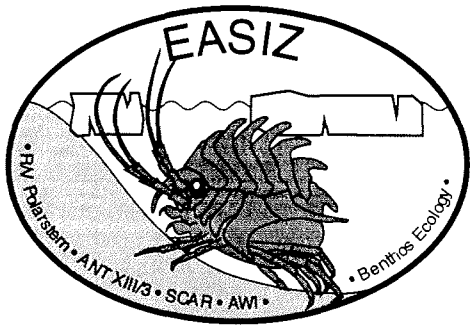
Biodiversity of the Weddell Sea: macrozoobenthic species (demersal fish included) sampled during the expedition ANT XIII/3 (EASIZ I) with RV "Polarstern"

Edited by Julian Gutt, Boris I. Sirenko, Wolf E. Arntz, Igor S. Smirnov, and Claude De Broyer

with contributions of 29 taxonomists from Russia, Spain, Belgium, U.K., and Germany

Ber. Polarforsch. 372 (2000)
ISSN 0176 - 5027



Julian Gutt, Wolf E. Arntz, Alfred Wegener Institute for Polar- and Marine Research, Columbusstr., D-27568 Bremerhaven, Germany

Boris I. Sirenko, Igor S. Smirnov, Zoological Institute, Russian Academy of Sciences, Universitetskaya Emb. 1, St Petersburg 199034, Russia

Claude De Broyer, Institut Royal des Sciences Naturelles de Belgique, Rue Vautier, 29, B-1000 Bruxelles, Belgium

Background

General worldwide acceptance is growing that the diversity of life on earth is of inestimable value to human beings. The debate started with the proclamation of a biodiversity crisis, which had a two-fold meaning. Firstly, our knowledge of this subject is still very poor; maybe no more than 10 % of all animals and plants on earth are scientifically known. To make matters worse, the number of specialists, who are able to identify and describe species is dramatically decreasing, especially in those countries where, until now, the highest expertise and the largest scientific collections have existed. Secondly, it has been estimated that extinction due to human activity is orders of magnitude higher than natural extinction. The resulting impoverishment of our biosphere is, in contrast to other man-made global changes, irreversible.

However, one positive result arising from this is that many scientists have been challenged to reconsider the situation. Taxonomic knowledge is easily accessible to many scientists if corresponding information is stored in regularly up-dated computerised data bases. Improved international coordination would make the exchange of information even more efficient. However, the extinction of species goes on and the progress of describing new species is extremely slow. There are many as yet undescribed species, which have even been already collected, whilst many more are expected to be found in various ecosystems.

Also there is no doubt about the socio-economic value of the diversity of natural resources. Genetic information can be used for e.g. human nutrition (this includes many more aspects than the controversial genetic manipulation of known species), or in the pharmaceutical industry to help solve medical problems of global relevance. Certainly not all the possibilities have as yet been exploited and the potential of biologically active metabolites is not at all known. In addition, ethical and aesthetic reasons justify the conservation of the earth's biodiversity. For these reasons the subject has become increasingly important at a political level. In the future, however, decisions are due because it is only in this way that the present situation can really be improved.

The main aim of this report is to contribute to current knowledge about the local presence of a broad spectrum of macrobenthic species in a large area of the high Antarctic shelf and upper continental slope of the southeastern Weddell Sea. The resulting information has already been used to improve ecological and zoogeographical studies and to add new species to the inventory for this area. Several investigations have shown that the Weddell Sea can be used as a representative area for the high Antarctic shelf, since it harbours several species assemblages, which are also found with similar compositions in other places around the continent.

Studying the Antarctic benthos is of particular relevance to biodiversity studies for various reasons. The proportion of endemic species is high and most species seem to be especially sensitive to environmental change, due to their distinct physiological adaptation to the stable conditions. Other factors which limit their response to changes are low growth rate as well as longevity and a sessile mode of life, which, in contrast to e.g. plankton and nekton prevents escape and reinvasion following short-term disturbance. Under these unique conditions the following principal is particularly true: We can, after all, only save what we know! On the one hand, the ultimate goal of collecting information on all the species in the Antarctic or even on

Earth is still a long way off. On the other hand, compared to other modern large scale projects in science and technology, this type of study is relatively inexpensive and requires only moderate personal effort. Our limited contribution to the study of global biodiversity demonstrates that small steps are feasible with a certain amount of political backing and expertise. New initiatives should be taken at appropriate levels in the future to develop a more comprehensive and structured approach of Antarctic marine biodiversity assessment, i.a. in the framework of the worldwide programme DIVERSITAS, recently launched.

The material used for this compilation was collected during the expedition ANT XIII/3 of the German Research vessel "Polarstern" in 1996, which contributed to the international SCAR initiative EASIZ (Ecology of the Antarctic Sea Ice Zone). For details see cruise report, Arntz W, Gutt J 1997. The Expedition ANTARKTIS XIII/3 (EASIZ I) of "Polarstern" to the eastern Weddell Sea in 1996. Ber Polarforsch 249,148pp. Samples were sorted mainly by B. Sirenko, I. Smirnov, W. Arntz and M. Rauschert. The following sampling devices were used:

Sampling equipment	Abbreviation	Mesh size* / area (for corers)
Bottom trawl	BT	15 mm
Benthopelagic trawl	BP	15 mm
Agassiz trawl	AG	10 mm
Epibenthic sledge	EB	0.5 mm
Small dredge	DR	1 mm
Multibox corer	MG	9 x 0.024 m^2
Giant box corer	GK	0.25 m^2

* for trawls: in codend

The information given in this report does not claim to be complete, always to represent the most up-to-date systematic classification, or to replace zoogeographical or ecological studies. Only taxa determined to the species level (including "cf.") were considered. The information given in the species list concerns only presences, no symbols for a species at a given station does not mean necessarily that it is absent. Collection and identification of species was carried out mainly by scientists from the Zoological Institute (Russian Academy of Sciences), St. Petersburg. The identification of further material sampled during two more "Polarstern" expeditions to the same area will provide an increased number of total species to be published as soon as available.

Acknowledgements

This study was initiated and financed by the German Federal Ministry of Research (BMBF 03F11GUS; Hirche, Gutt, Rachor) and the Alfred Wegener Institute for Polar and Marine Research, Bremerhaven; additional support by FAP "World Ocean" Subprogram 9 and Russian Antarctic Program N15, N16. Fish determination was supported by J. Matallanas. Thanks are due to D. Gerdes for taking care of sampling equipment and providing samples.

Numbers of species (expedition "Polarstern" ANT XIII/3)

Taxon	No. of identified species	Estimated no. of unidentifed species	Estimated no. of species new to science (to be described)
Foraminifera	64	5	0
Porifera	59	8	0
Hydrozoa	37	2	0
Scyphozoa	2	1	0
Anthozoa	33	17	0
Bryozoa	184	≥102	1
Brachiopoda	6	1	0
Polyplacophora	3	1	0
Prosobranchia	183	6	1
Opistobranchia	11	1	0
Nudibranchia	11	0	1
Bivalvia	60	1	3
Cephalopoda	10	≥1	3
Pycnogonida	68	10	0
Leptostraca	1	0	0
Mysidacea	4	1	0
Cumacea	16	3	0
Decapoda	5	0	0
Amphipoda	116	14	27
Isopoda	16	1	1
Euphausiacea	3	1	0
Asteroidea	41	13	0
Ophiuroidea	32	0	0
Hemicordata	3	0	0
Ascidiacea	24	11	4
Pisces	67	13	0
Σ	1059	≥213	42

Porifera, Isopoda, Amphipoda and Bryozoa were incompletely sampled or identified; Polychaeta, Sipunculida, Holothuroidea, Crinoidea, and Echinoidea were not sampled.

List of taxonomists

Taxon	Name	Abbreviation	Institution
Foraminifera	Valerija I. Mikhalevich	MIC	ZISP
Porifera	Vladimir M. Koltun	KOL	ZISP
Hydrozoa	Sofia D. Stepanjants	STE	ZISP
	Armin Svoboda	SVO	RUB
Scyphozoa: Siphonophora	Sofia D. Stepanjants	STE	ZISP
Anthozoa	Sergey D. Grebelnyi	GRE	ZISP
Octocorallia	Nadezhda V. Slepkova	SLE	ZISP
Brachiopoda	Olga N. Zezina	ZEZ	SIO
Bryozoa	Valentina I. Gontar	GON	ZISP
	(Mikel Zabala)*	ZAB	UBE
Polyplacophora	Boris I. Sirenko	SIR	ZISP
Gastropoda	Emma N. Egorova	EGO	ZISP
Opisthobranchia: Cephalaspidea	Elena M. Chaban	CHA	ZISP
Opisthobranchia: Pleurobranchida	Alexander V. Martynov	MAR	ZISP
Nudibranchia	Alexander V. Martynov	MAR	ZISP
Bivalvia	Emma N. Egorova	EGO	ZISP
Cephalopoda	Kir N. Nesis	NES	SIO
	Louise Allcock	ALL	NMS
Pycnogonida	Elena P. Turpaeva	TUR	SIO
Mysidacea	Victor V. Petryashev	PET	ZISP
Leptostraca	Victor V. Petryashev	PET	ZISP
Euphausiacea	Victor V. Petryashev	PET	ZISP
Cumacea	Stella V. Vassilienko	VAS	ZISP
Decapoda	Wolf E. Arntz	ARN	AWI
Amphipoda	Martin Rauschert	RAU	AWI
	Claude De Broyer	DEB	IRSNB
Amphipoda: Caprellidea	Stella V. Vassilienko	VAS	ZISP
Isopoda	Christoph Held	HEL	RUB
Pterobranchia	Yaroslav I. Starobogatov	STA	ZISP
Asteroidea	Eugeny N. Grusov	GRU	ZISP
Ophiuroidea	Igor S. Smirnov	SMI	ZISP
Ascidiacea	Vladislav N. Romanov	ROM	ZISP
Pisces	Eduardo Balguerías	BG	COC
	Beatriz Morales-Nin	MN	CSIC/UIB
	Olga S. Voskoboinikova	VO	ZISP
	Arcady V. Balushkin	BS	ZISP

*data from the cruise report

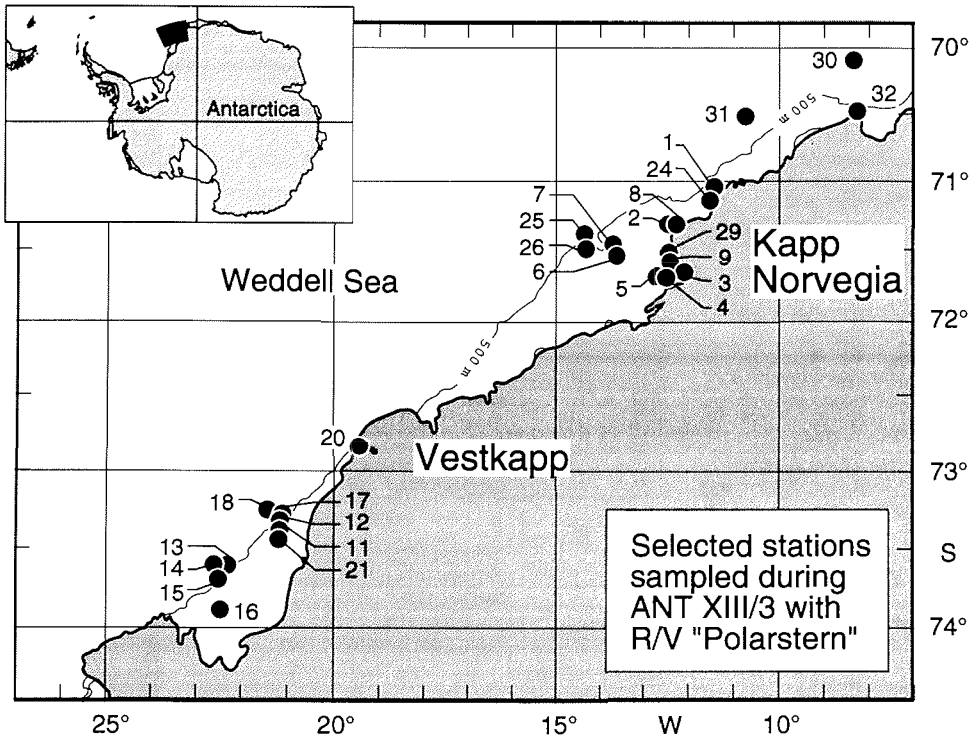
Institutions

AWI	Foundation Alfred Wegener Institute for Polar and Marine Research Columbusstraße D - 27568 Bremerhaven Germany
CSIC/UIB	Institut Mediterrani d'Estudis Avançats Miguel Marques 21 E - 07190 Esporles, Mallorca Spain
COC	Instituto Español de Oceanografía Centro Oceanográfico de Canarias Carretera San Andrés S/N E - 38120 Santa Cruz de Tenerife Spain
IRSNB	Institut Royal des Sciences Naturelles de Belgique Département des Invertébrés Rue Vautier, 29 B - 1000 Bruxelles Belgium
NMS	National Museums of Scotland, Chambers St Edinburgh EH1 1JF United Kingdom
RUB	Ruhr-Universität Bochum Lehrstuhl für spezielle Zoologie D - 44780 Bochum Germany
SIO	P.P. Shirshov Institute of Oceanology Russian Academy of Sciences Nachimovskaya Street 36 Moskow 117218 Russia
UBE	Universitat de Barcelona Departament d'Ecologia Avgda. Diagonal 645 E - 08028 Barcelona Spain
ZISP	Zoological Institute Russian Academy of Sciences Universitetskaya Emb. 1 St Petersburg 199034 Russia

Station list

gear	stn no.	position (S / W)	depth (m)	date (1996)
BT 01	01	71° 03.10' / 11° 25.50'	462	05/02
MG 02	05	71° 39.75' / 12° 41.00'	255	06/02
EB 01	05	71° 40.49' / 12° 41.70'	254	06/02
BT 02	05	71° 41.10' / 12° 44.30'	227	07/02
AG 01	06	71° 31.80' / 13° 34.50'	254	08/02
GK 01	07	71° 26.80' / 13° 44.00'	215	08/02
AG 02	02	71° 18.70' / 12° 17.10'	170	09/02
BT 03	09	71° 34.00' / 12° 25.80'	604	10/02
AG 03	06	71° 27.40' / 13° 43.30'	212	11/02
BT 04	11	73° 22.60' / 21° 10.60'	338	13/02
BT 05	12	73° 18.10' / 21° 10.10'	459	13/02
BT 06	13	73° 36.30' / 22° 19.00'	620	14/02
BT 07	14	73° 36.10' / 22° 35.70'	850	14/02
BT 08	15	73° 42.00' / 22° 30.50'	446	15/02
BT 09	16	73° 53.40' / 22° 26.90'	246	15/02
BT 10	17	73° 18.00' / 21° 09.90'	468	16/02
AG 04a	18	73° 15.40' / 21° 27.60'	1704	16/02
AG 04b	18	73° 16.70' / 21° 25.50'	1538	16/02
BP 01	20	72° 50.50' / 19° 26.00'	428	18/02
BP 02	21	73° 22.90' / 21° 10.00'	283	18/02
BP 03	21	73° 26.50' / 21° 10.50'	253	18/02
AG 05	04	71° 41.60' / 12° 29.40'	440	20/02
MG 20	04	71° 41.20' / 12° 30.80'	438	20/02
GK 10	04	71° 41.50' / 12° 31.70'	436	20/02
AG 06	24	71° 08.15' / 11° 32.25'	123	21/02
GK 12	24	71° 08.30' / 11° 32.40'	119	21/02
MG 28	02	71° 19.10' / 12° 22.80'	159	22/02
MG 29	02	71° 18.60' / 12° 25.40'	181	22/02
MG 30	02	71° 19.20' / 12° 27.00'	253	22/02
AG 07	25	71° 23.10' / 14° 19.80'	634	23/02
GK 14	25	71° 23.10' / 14° 19.70'	621	23/02
GK 15	25	71° 23.10' / 14° 19.70'	628	23/02
AG 08	25	71° 22.90' / 14° 19.20'	622	23/02
DR 19	25	71° 22.90' / 14° 19.20'	622	23/02
DR 20	26	71° 29.30' / 14° 18.60'	216	24/02
DR 21	26	71° 29.30' / 14° 19.50'	210	24/02
AG 09	06	71° 32.10' / 13° 44.10'	362	25/02
GK 16	03	71° 39.30' / 12° 05.10'	209	26/02
AG 10	09	71° 34.70' / 12° 26.60'	560	26/02
DR 22	09	71° 34.70' / 12° 26.60'	560	26/02
AG 11	09	71° 32.60' / 12° 26.30'	570	26/02
BP 04	29	71° 31.50' / 12° 25.50'	504	28/02
GK 17	29	71° 30.70' / 12° 26.40'	494	29/02
AG 12	30	70° 05.30' / 08° 20.00'	2315	01/03
DR 24	30	70° 05.30' / 08° 20.00'	2315	01/03
DR 26	31	70° 30.90' / 10° 44.20'	1586	02/03
DR 27	32	70° 28.90' / 08° 15.10'	286	04/03

Station map


Antarctica
Weddell Sea
Kapp Norvegia
Vestkapp
Selected stations sampled during ANT XIII/3 with R/V "Polarstern"
70°
71°
72°
73°
S
74°
25°
20°
15°
W
10°
30
32
31
1
24
8
2
29
9
3
4
5
7
25
26
6
20
18
17
12
11
21
13
14
15
16

det. _____

	FORAMINIFERA		
	Astrorhizida		
	Rhabdamminidae		
1	*Rhabdammina antarctica*	Saidova, 1975	MIC
2	*Psammosiphonella discreta*	(Brady, 1881)	MIC
	Saccamminidae		
3	*Saccammina basispiculata*	Mikhalevich, Pronina and Nestell, 2000	MIC
4	*Pilulina jeffreysii*	Carpenter, 1870	MIC
5	*Thurammina favosa reticulata*	Flint, 1899 / Pearcey, 1914	MIC
6	*Thurammina protea*	Earland, 1933	MIC
7	*Astrammina rara*	Rhumbler, 1931	MIC
8	*Tholosina laevis*	Rhumbler, 1931	MIC
9	*Tholosina vesicularis*	(Brady, 1879)	MIC
	Psammosphaeridae		
10	*Sorosphaera confusa*	Brady, 1884	MIC
11	*Psammophax consociata*	Rhumbler, 1931	MIC
	Hormosinida		
	Hormosinidae		
12	*Hormosina globulifera*	Brady, 1879	MIC
13	*Hormosina normani*	Brady, 1879	MIC
14	*Pseudonodosinella margaritaria margaritaria*	(Rhumbler, 1931) / Saidova, 1975	MIC
14	*Pseudonodosinella margaritaria elongata*	(Rhumbler, 1931) / Saidova, 1975	MIC
15	*Nodosinum gaussicum*	(Rhumbler, 1913)	MIC
16	*Reophax subfusiformis*	Earland, 1933	MIC
	Lituolida		
	Haplophragmoididae		
17	*Pauciloculina antarctica*	(Saidova, 1975)	MIC
18	*Haplophragmoides umbilicatum*	Pearcey, 1914	MIC
19	*Cribrostomoides antarcticus*	Saidova, 1975	MIC
	Cyclamminidae		
20	*Cyclammina orbicularis asellina*	Brady, 1884 / Rhumbler, 1931	MIC
	Cornuspirida		
	Cornuspiridae		
21	*Cornuspira antarctica*	Rhumbler, 1931	MIC
22	*Cornuspiroides expansus*	Chapman, 1915	MIC
23	*Cornuspiroides lacunosus*	(Brady, 1884)	MIC
	Miliolida		
	Spiroloculinidae		
24	*Planispirinoides antarcticus*	Saidova, 1975	MIC
	Massilinidae		
25	*Miliolinella antarctica*	Kennett, 1967	MIC
26	*Miliolinella profunda*	Saidova, 1975	MIC
27	*Miliolinella meridionalis*	(D'Orbigny, 1922)	MIC
	Triloculinidae		
28	*Cruciloculina subvalvularis*	(Parr, 1950)	MIC
29	*Involvohauerina* cf. *globularis*	Saidova, 1975	MIC
	Sigmoilinitidae		
30	*Sigmoinella obesa*	(Earland, 1932)	MIC
	Pyrgoidae		
31	*Pyrgo peruviana*	(D'Orbigny, 1839)	MIC
32	*Pyrgo patagonica*	(D'Orbigny, 1839)	MIC
33	*Pyrgo subpisum*	Parr, 1950	MIC
34	*Pyrgo elongata*	D'Orbigny, 1826	MIC
35	*Pyrgo murrhina*	(Schwager, 1866)	MIC
36	*Pyrgo* cf. *oblonga*	D'Orbigny, 1839	MIC
37	*Pyrgo wiesneri*	Parr, 1950	MIC
38	*Pyrgo sarsi*	(Schiumberger, 1891)	MIC
39	*Pyrgo lateoralis*	Parr, 1950	MIC
40	*Pyrgo lata*	Wiesner, 1931	MIC
41	*Pyrgo vespertilio*	(Schiumberger, 1891)	MIC
42	*Pyrgo antarctica*	Saidova, 1975	MIC
43	*Pyrgoella sphaera*	(D'Orbigny, 1839)	MIC

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
FORAMINIFERA																		
Astrorhizida																		
Rhabdamminidae																		
Rhabdammina antarctica										•	•							
Psammosiphonella discreta																		
Saccamminidae																		
Saccammina basispiculata	•			•		•												
Pilulina jeffreysii																		
Thurammina favosa reticulata																		
Thurammina protea																		
Astrammina rara																		
Tholosina laevis	•				•													
Tholosina vesicularis																		
Psammosphaeridae																		
Sorosphaera confusa																		
Psammophax consociata	•																	
Hormosinida																		
Hormosinidae																		
Hormosina globulifera																		
Hormosina normani																		
Pseudonodosinella margaritaria margaritaria	•				•	•			•	•						•		
Pseudonodosinella margaritaria elongata										•								
Nodosinum gaussicum																		
Reophax subfusiformis																		
Lituolida																		
Haplophragmoididae																		
Pauciloculina antarctica										•								
Haplophragmoides umbilicatum																		
Cribrostomoides antarcticus																		
Cyclamminidae																		
Cyclammina orbicularis asellina																		
Cornuspirida																		
Cornuspiridae																		
Cornuspira antarctica					•	•			•							•		
Cornuspiroides expansus																		
Cornuspiroides lacunosus				•		•												
Miliolida																		
Spiroloculinidae																		
Planispirinoides antarcticus	•			•	•	•			•	•			•			•		
Massilinidae																		
Miliolinella antarctica																		
Miliolinella profunda																		
Miliolinella meridionalis									•	•								
Triloculinidae																		
Cruciloculina subvalvularis									•									
Involvohauerina cf. *globularis*																		
Sigmoilinitidae																		
Sigmoinella obesa																		
Pyrgoidae																		
Pyrgo peruviana	•				•	•			•	•						•	•	
Pyrgo patagonica						•												
Pyrgo subpisum										•								
Pyrgo elongata																•		
Pyrgo murrhina																•		
Pyrgo cf. *oblonga*																		
Pyrgo wiesneri				•	•													
Pyrgo sarsi				•	•	•							•	•		•		
Pyrgo lateoralis									•	•								
Pyrgo lata				•												•	•	•
Pyrgo vespertilio																		
Pyrgo antarctica																•		
Pyrgoella sphaera	•				•	•			•	•						•		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
FORAMINIFERA																	
Astrorhizida																	
Rhabdamminidae																	
Rhabdammina antarctica			•	•	•									•			
Psammosiphonella discreta				•													
Saccamminidae																	
Saccammina basispiculata	•								•	•			•				
Pilulina jeffreysii			•														
Thurammina favosa reticulata	•								•	•					•		
Thurammina protea	•								•	•							
Astrammina rara	•									•							
Tholosina laevis	•	•			•				•	•							
Tholosina vesicularis									•	•							
Psammosphaeridae																	
Sorosphaera confusa									•	•							
Psammophax consociata	•								•	•							
Hormosinida																	
Hormosinidae																	
Hormosina globulifera			•														
Hormosina normani			•	•													
Pseudonodosinella margaritaria margaritaria									•	•			•	•			
Pseudonodosinella margaritaria elongata				•													
Nodosinum gaussicum			•														
Reophax subfusiformis									•	•							
Lituolida																	
Haplophragmoididae																	
Pauciloculina antarctica	•	•							•	•							
Haplophragmoides umbilicatum			•														
Cribrostomoides antarcticus			•	•	•												
Cyclamminidae																	
Cyclammina orbicularis asellina			•	•													
Cornuspirida																	
Cornuspiridae																	
Cornuspira antarctica	•				•				•	•			•	•	•		
Cornuspiroides expansus	•								•				•				
Cornuspiroides lacunosus	•				•				•	•			•		•		
Miliolida																	
Spiroloculinidae																	
Planispirinoides antarcticus	•		•		•				•	•			•	•	•	•	•
Massilinidae																	
Miliolinella antarctica									•	•							
Miliolinella profunda			•														
Miliolinella meridionalis									•	•				•			
Triloculinidae																	
Cruciloculina subvalvularis									•	•			•	•			
Involvohauerina cf. *globularis*			•														
Sigmoilinitidae																	
Sigmoinella obesa																	
Pyrgoidae																	
Pyrgo peruviana	•				•				•			•	•	•	•	•	•
Pyrgo patagonica																	
Pyrgo subpisum																	
Pyrgo elongata													•				
Pyrgo murrhina	•				•				•	•			•	•			
Pyrgo cf. *oblonga*		•															
Pyrgo wiesneri																	
Pyrgo sarsi	•	•			•				•	•			•	•		•	•
Pyrgo lateoralis										•			•	•			
Pyrgo lata	•				•												
Pyrgo vespertilio										•							
Pyrgo antarctica													•				
Pyrgoella sphaera	•			•					•	•			•	•			

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
FORAMINIFERA												
Astrorhizida												
Rhabdamminidae												
Rhabdammina antarctica											•	
Psammosiphonella discreta												
Saccamminidae												
Saccammina basispiculata												
Pilulina jeffreysii												
Thurammina favosa reticulata												
Thurammina protea												
Astrammina rara												
Tholosina laevis												
Tholosina vesicularis												
Psammosphaeridae												
Sorosphaera confusa												
Psammophax consociata												
Hormosinida												
Hormosinidae												
Hormosina globulifera												
Hormosina normani												•
Pseudonodosinella margaritaria margaritaria												
Pseudonodosinella margaritaria elongata												
Nodosinum gaussicum												
Reophax subfusiformis												
Lituolida												
Haplophragmoididae												
Pauciloculina antarctica	•											
Haplophragmoides umbilicatum												
Cribrostomoides antarcticus												
Cyclamminidae												
Cyclammina orbicularis asellina											•	•
Cornuspirida												
Cornuspiridae												
Cornuspira antarctica												
Cornuspiroides expansus												
Cornuspiroides lacunosus												
Miliolida												
Spiroloculinidae												
Planispirinoides antarcticus		•										
Massilinidae												
Miliolinella antarctica			•									
Miliolinella profunda			•									
Miliolinella meridionalis												
Trioculinidae												
Cruciloculina subvalvularis												
Involvohauerina cf. *globularis*												
Sigmoilinitidae												
Sigmoinella obesa		•										
Pyrgoidae												
Pyrgo peruviana												
Pyrgo patagonica												
Pyrgo subpisum												
Pyrgo elongata												
Pyrgo murrhina												
Pyrgo cf. *oblonga*												
Pyrgo wiesneri												
Pyrgo sarsi												
Pyrgo lateoralis												
Pyrgo lata												
Pyrgo vespertilio												
Pyrgo antarctica												
Pyrgoella sphaera												

			det.
44	*Pyrgoella earlandi*	Saidova, 1975	MIC
	Spirillinida		
	Spirillinidae		
45	*Spirillina plana*	Wiesner, 1931	MIC
46	*Spirillina radiosa*	Parr, 1950	MIC
47	*Spirillina helenae*	Chapman and Parr, 1937	MIC
48	*Turrispirillina turbo*	Wiesner, 1931	MIC
	Lagenida		
	Lagenidae		
49	*Lagena subacuticosta*	Parr, 1950	MIC
	Ellipsolagenidae		
50	*Parafissurina curta*	Parr, 1950	MIC
	Nodosariida		
	Nodosariidae		
51	*Dentalina* cf. *communis*	(D'Orbigny, 1826)	MIC
	Vaginulinida		
	Lenticulinidae		
52	*Lenticulina antarctica*	Parr, 1950	MIC
	Marginulininidae		
53	*Marginulina* cf. *ensis*	Reuss, 1845	MIC
54	*Astacolus* cf. *crepidulus*	(Fichtel and Moll, 1798)	MIC
	Polymorphinida		
	Polymorphinidae		
55	*Guttulina* cf. *oblonga*	(D'Orbigny, 1846)	MIC
	Glandulinidae		
56	*Glandulina antarctica*	Parr, 1950	MIC
	Planorbulinida		
	Cibicididae		
57	*Cibicides refulgens*	De Montfort, 1808	MIC
58	*Cibicides antarcticus*	(Saidova, 1975)	MIC
	Buliminida		
	Uvigerinidae		
59	*Angulogerina angulosa*	(Williamson, 1858)	MIC
	Cassidulinida		
	Cassidulinidae		
60	*Anticleina biora*	(Crespin, 1960)	MIC
61	*Cassidulinoides parkerianus*	(Brady, 1884)	MIC
62	*Ehrenbergina glabra*	Earland, 1932	MIC
	Robertinida		
	Robertinidae		
63	*Robertina chapmani*	Earland, 1922	MIC
	Nonionida		
	Nonionidae		
64	*Pullenia antarctica*	Saidova, 1975	MIC
	PORIFERA		
	Hexactinellida		
	Rossellidae		
1	*Rossella antarctica*	Carter, 1872	KOL
2	*Rossella nuda*	Topsent, 1901	KOL
3	*Rossella racovitzae*	Topsent, 1901	KOL
4	*Bathydorus spinosus*	Wilson, 1904	KOL
	Euretidae		
5	*Chonelasma lamella*	Schulze, 1887	KOL
	Demospongiae		
	Stellettidae		
6	*Steelletta purpurea*	Ridley, 1884	KOL
7	*Monosyringa longispinum*	(Lendenfeld, 1907)	KOL
	Tetillidae		
8	*Tetilla leptoderma*	Sollas, 1886	KOL
9	*Cinachyra antarctica*	(Carter, 1872)	KOL
10	*Cinachyra barbata*	Sollas, 1886	KOL

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Pyrgoella earlandi																		
Spirillinida																		
Spirillinidae																		
Spirillina plana																		
Spirillina radiosa																		
Spirillina helenae																		
Turrispirillina turbo																		
Lagenida																		
Lagenidae																		
Lagena subacuticosta																		
Ellipsolagenidae																		
Parafissurina curta																		
Nodosarlida																		
Nodosarlidae																		
Dentalina cf. *communis*																		
Vaginulinida																		
Lenticulinidae																		
Lenticulina antarctica						•			•									
Marginulininidae																		
Marginulina cf. *ensis*									•									
Astacolus cf. *crepidulus*																		
Polymorphinida																		
Polymorphinidae																		
Guttulina cf. *oblonga*																		
Glandulinidae																		
Glandulina antarctica																•		
Planorbulinida																		
Cibicididae																		
Cibicides refulgens				•	•	•				•			•	•		•		
Cibicides antarcticus																		
Buliminida																		
Uvigerinidae																		
Angulogerina angulosa																		
Cassidulinida																		
Cassidulinidae																		
Anticleina biora										•						•		
Cassidulinoides parkerianus																		
Ehrenbergina glabra										•								
Robertinida																		
Robertinidae																		
Robertina chapmani																		
Nonionida																		
Nonionidae																		
Pullenia antarctica																		
PORIFERA																		
Hexactinellida																		
Rossellidae																		
Rossella antarctica																		
Rossella nuda		•		•	•	•	•										•	
Rossella racovitzae		•			•		•	•	•	•								
Bathydorus spinosus																		
Euretidae																		
Chonelasma lamella										•								
Demospongiae																		
Stellettidae																		
Steelletta purpurea		•																
Monosyringa longispinum		•			•	•	•											•
Tetillidae																		
Tetilla leptoderma		•	•		•	•	•		•							•	•	
Cinachyra antarctica		•		•	•	•	•		•							•	•	•
Cinachyra barbata				•	•	•	•		•									

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Pyrgoella earlandi					•												
Spirillinida																	
Spirillinidae																	
Spirillina plana									•	•							
Spirillina radiosa										•							
Spirillina helenae									•								
Turrispirillina turbo									•								
Lagenida																	
Lagenidae																	
Lagena subacuticosta										•							
Ellipsolagenidae																	
Parafissurina curta										•							
Nodosariida																	
Nodosariidae																	
Dentalina cf. *communis*									•	•							
Vaginulinida																	
Lenticulinidae																	
Lenticulina antarctica					•				•	•			•				
Marginulininidae																	
Marginulina cf. *ensis*									•	•			•				
Astacolus cf. *crepidulus*										•							
Polymorphinida																	
Polymorphinidae																	
Guttulina cf. *oblonga*									•	•							
Glandulinidae																	
Glandulina antarctica	•	•							•	•			•				
Planorbulinida																	
Cibicididae																	
Cibicides refulgens	•	•								•			•	•			•
Cibicides antarcticus	•								•				•				
Buliminida																	
Uvigerinidae																	
Angulogerina angulosa										•							•
Cassidulinida																	
Cassidulinidae																	
Anticleina biora	•	•			•				•	•			•			•	•
Cassidulinoides parkerianus										•							
Ehrenbergina glabra										•							
Robertinida																	
Robertinidae																	
Robertina chapmani									•								
Nonionida																	
Nonionidae																	
Pullenia antarctica										•			•				
PORIFERA																	
Hexactinellida																	
Rossellidae																	
Rossella antarctica					•												
Rossella nuda					•												
Rossella racovitzae	•				•	•						•					
Bathydorus spinosus																	
Euretidae																	
Chonelasma lamella																	
Demospongiae																	
Stellettidae																	
Steelletta purpurea																	
Monosyringa longispinum										•							
Tetillidae																	
Tetilla leptoderma	•				•												
Cinachyra antarctica					•					•			•				
Cinachyra barbata																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Pyrgoella earlandi												
Spirillinida												
Spirillinidae												
Spirillina plana												
Spirillina radiosa												
Spirillina helenae												
Turrispirillina turbo												
Lagenida												
Lagenidae												
Lagena subacuticosta												
Ellipsolagenidae												
Parafissurina curta												
Nodosariida												
Nodosariidae												
Dentalina cf. *communis*												
Vaginulinida												
Lenticulinidae												
Lenticulina antarctica												
Marginulininidae												
Marginulina cf. *ensis*												
Astacolus cf. *crepidulus*												
Polymorphinida												
Polymorphinidae												
Guttulina cf. *oblonga*												
Glandulinidae												
Glandulina antarctica												
Planorbulinida												
Cibicididae												
Cibicides refulgens	•	•										
Cibicides antarcticus	•	•										
Buliminida												
Uvigerinidae												
Angulogerina angulosa												
Cassidulinida												
Cassidulinidae												
Anticleina biora	•	•										
Cassidulinoides parkerianus		•										
Ehrenbergina glabra		•										
Robertinida												
Robertinidae												
Robertina chapmani												
Nonionida												
Nonionidae												
Pullenia antarctica												
PORIFERA												
Hexactinellida												
Rossellidae												
Rossella antarctica												
Rossella nuda	•			•			•					
Rossella racovitzae	•						•					
Bathydorus spinosus											•	
Euretidae												
Chonelasma lamella	•											
Demospongiae												
Stellettidae												
Steelletta purpurea												
Monosyringa longispinum												
Tetillidae												
Tetilla leptoderma			•	•			•					
Cinachyra antarctica	•		•		•		•					
Cinachyra barbata												

			det.
	Suberitidae		
11	*Suberites montiniger*	Carter, 1880	KOL
12	*Suberites caminatus*	Ridley and Dendy, 1887	KOL
13	*Pseudosuberites mollis*	Ridley and Dendy, 1887	KOL
14	*Pseudosuberites hyalinus*	(Ridley and Dendy, 1887)	KOL
15	*Pseudosuberites nudus*	Koltun, 1964	KOL
	Polymastidae		
16	*Polymastia invaginata*	Kirkpatrick, 1908	KOL
17	*Sphaerotylus borealis antarcticus*	Kirkpatrick, 1908	KOL
18	*Sphaerotylus schoenus vanhoffeni*	Hentschel, 1914	KOL
19	*Stylocordyla borealis*	(Loven, 1868)	KOL
	Esperiopsidae		
20	*Isodictya erinacea*	(Topsent, 1916)	KOL
21	*Isodictya setifer*	(Topsent, 1901)	KOL
22	*Isodictya delicata megachela*	(Thiele, 1905)	KOL
23	*Isodictya kerguelensis*	(Ridley and Dendy, 1886)	KOL
24	*Isodictya antarctica*	(Kirkpatrick, 1908)	KOL
	Mycalidae		
25	*Mycale acerata*	Kirkpatrick, 1907	KOL
26	*Mycale tridens*	Hentschel, 1914	KOL
	Myxillidae		
27	*Myxilla mollis*	Ridley and Dendy, 1886	KOL
28	*Myxilla asigmata*	Topsent, 1901	KOL
29	*Lissodendoryx innominata*	Burton, 1929	KOL
30	*Ectyodoryx ramilobosa*	(Topsent, 1916)	KOL
31	*Ectyodoryx antarctica*	(Hentschel, 1914)	KOL
32	*Ectyodoryx anacantha*	Hentschel, 1914	KOL
	Iophonidae		
33	*Iophon radiatus*	Topsent, 1901	KOL
34	*Iophon aceratus*	(Hentschel, 1914)	KOL
35	*Iophon spatulatus*	Kirkpatrick, 1907	KOL
36	*Acanthorhabdus fragilis*	Burton, 1929	KOL
	Tedaniidae		
37	*Tedania tantula*	(Kirkpatrick, 1908)	KOL
38	*Tedania oxeata*	Topsent, 1916	KOL
39	*Tedania charcoti*	Topsent, 1908	KOL
	Clathriidae		
40	*Clathria pauper*	Broendsted, 1926	KOL
41	*Clathria toxopraedita*	Topsent, 1913	KOL
42	*Axociella nidificata*	(Kirkpatrick, 1907)	KOL
43	*Axociella flabellata*	(Topsent, 1916)	KOL
44	*Axociella rameus*	Koltun, 1964	KOL
45	*Anchinoe glaberrima*	(Topsent, 1917)	KOL
46	*Pseudanchinoe toxifera*	Topsent, 1913	KOL
47	*Bipocillopsis nexus*	Koltun, 1964	KOL
	Coelosphaeridae		
48	*Inflatella belli*	(Kirkpatrick, 1907)	KOL
49	*Inflatella latrunculioide*	(Ridley and Dendy, 1887)	KOL
	Axinellidae		
50	*Axinella mariana*	Ridley and Dendy, 1887	KOL
51	*Axinella antarctica*	Koltun, 1964	KOL
52	*Homaxinella balfourensis*	(Ridley and Dendy, 1886)	KOL
53	*Eurypon miniaceum*	Thiele, 1905	KOL
	Crellidae		
54	*Crella crassa*	(Hentschel, 1914)	KOL
55	*Acanthoxa werthi*	Hentschel, 1914	KOL
	Halichondriidae		
56	*Halichondria hentscheli*	Koltun, 1964	KOL
57	*Microxina benedeni*	(Topsent, 1901)	KOL
	Calcarea		
	Clathrinidae		
58	*Leucetta leptoraphis*	(Jenkin, 1908)	KOL

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Suberitidae																		
Suberites montiniger				•														
Suberites caminatus				•														
Pseudosuberites mollis																		
Pseudosuberites hyalinus						•												
Pseudosuberites nudus				•													•	
Polymastidae																		
Polymastia invaginata			•		•	•			•							•	•	
Sphaerotylus borealis antarcticus					•													
Sphaerotylus schoenus vanhoffeni										•								
Stylocordyla borealis				•		•	•											
Esperiopsidae																		
Isodictya erinacea			•				•											•
Isodictya setifer																		
Isodictya delicata megachela				•					•									
Isodictya kerguelensis			•															
Isodictya antarctica																		
Mycalidae																		
Mycale acerata				•		•	•		•									
Mycale tridens				•														
Myxillidae																		
Myxilla mollis					•												•	
Myxilla asigmata																		
Lissodendoryx innominata		•																
Ectyodoryx ramilobosa			•		•	•												•
Ectyodoryx antarctica									•									
Ectyodoryx anacantha					•													
Iophonidae																		
Iophon radiatus																		
Iophon aceratus							•			•						•		
Iophon spatulatus			•	•														•
Acanthorhabdus fragilis		•			•													
Tedaniidae																		
Tedania tantula			•	•		•			•	•						•		
Tedania oxeata							•											
Tedania charcoti					•													
Clathrilidae																		
Clathria pauper			•		•													
Clathria toxopraedita																		
Axociella nidificata				•			•										•	
Axociella flabellata																		
Axociella rameus				•														
Anchinoe glaberrima				•														
Pseudanchinoe toxifera				•														
Bipocillopsis nexus										•								
Coelosphaeridae																		
Inflatella belli		•		•	•		•									•		
Inflatella latrunculioide																		
Axinellidae																		
Axinella mariana																		
Axinella antarctica																		
Homaxinella balfourensis			•	•														
Eurypon miniaceum																	•	
Crellidae																		
Crella crassa																	•	
Acanthoxa werthi				•														
Halichondriidae																		
Halichondria hentscheli																	•	
Microxina benedeni				•														
Calcarea																		
Clathrinidae																		
Leucetta leptoraphis						•		•		•							•	

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Suberitidae																	
Suberites montiniger																	
Suberites caminatus																	
Pseudosuberites mollis	•																
Pseudosuberites hyalinus																	
Pseudosuberites nudus					•												
Polymastidae																	
Polymastia invaginata		•															
Sphaerotylus borealis antarcticus										•							
Sphaerotylus schoenus vanhoffeni										•							
Stylocordyla borealis	•																
Esperiopsidae																	
Isodictya erinacea		•			•												
Isodictya setifer																	
Isodictya delicata megachela																	
Isodictya kerguelensis																	
Isodictya antarctica																	
Mycalidae																	
Mycale acerata																	
Mycale tridens																	
Myxillidae																	
Myxilla mollis		•															
Myxilla asigmata										•							
Lissodendoryx innominata																	
Ectyodoryx ramilobosa																	
Ectyodoryx antarctica																	
Ectyodoryx anacantha																	
Iophonidae																	
Iophon radiatus														•			
Iophon aceratus																	
Iophon spatulatus	•									•							
Acanthorhabdus fragilis		•															
Tedaniidae																	
Tedania tantula	•				•												
Tedania oxeata																	
Tedania charcoti														•			
Clathriidae																	
Clathria pauper																	
Clathria toxopraedita														•			
Axociella nidificata																	
Axociella flabellata																	
Axociella rameus																	
Anchinoe glaberrima																	
Pseudanchinoe toxifera					•												
Bipocillopsis nexus																	
Coelosphaeridae																	
Inflatella belli					•												
Inflatella latrunculioide																	
Axinellidae																	
Axinella mariana														•			
Axinella antarctica																	
Homaxinella balfourensis																	
Eurypon miniaceum																	
Crellidae																	
Crella crassa																	
Acanthoxa werthi																	
Halichondriidae																	
Halichondria hentscheli																	
Microxina benedeni																	
Calcarea																	
Clathrinidae																	
Leucetta leptoraphis														•			

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Suberitidae												
Suberites montiniger												
Suberites caminatus							•					
Pseudosuberites mollis							•					
Pseudosuberites hyalinus												
Pseudosuberites nudus	•											
Polymastidae												
Polymastia invaginata			•		•		•					
Sphaerotylus borealis antarcticus												
Sphaerotylus schoenus vanhoffeni												
Stylocordyla borealis							•					
Esperiopsidae												
Isodictya erinacea					•		•					
Isodictya setifer							•					
Isodictya delicata megachela												
Isodictya kerguelensis												
Isodictya antarctica	•											
Mycalidae												
Mycale acerata	•											
Mycale tridens												
Myxillidae												
Myxilla mollis	•			•								
Myxilla asigmata												
Lissodendoryx innominata												
Ectyodoryx ramilobosa	•						•					
Ectyodoryx antarctica												
Ectyodoryx anacantha												
Iophonidae												
Iophon radiatus					•							
Iophon aceratus												
Iophon spatulatus												
Acanthorhabdus fragilis												
Tedaniidae												
Tedania tantula	•	•	•		•		•					
Tedania oxeata												
Tedania charcoti							•					
Clathriidae												
Clathria pauper												
Clathria toxopraedita												
Axociella nidificata	•	•					•					
Axociella flabellata	•				•		•					
Axociella rameus												
Anchinoe glaberrima							•					
Pseudanchinoe toxifera	•											
Bipocillopsis nexus												
Coelosphaeridae												
Inflatella belli			•									
Inflatella latruncultoide												•
Axinellidae												
Axinella mariana												
Axinella antarctica			•									
Homaxinella balfourensis												
Eurypon miniaceum	•		•				•					
Crellidae												
Crella crassa												
Acanthoxa werthi												
Halichondriidae												
Halichondria hentscheli												
Microxina benedeni	•											
Calcarea												
Clathrinidae												
Leucetta leptoraphis	•	•			•		•					

			det.
	Leucosoleniidae		
59	*Scypha truncata*	(Topsent, 1907)	KOL
	CNIDARIA		
	HYDROZOA		
	Hydroidea, Athecaphora		
	Candelabridae		
1	*Candelabrum penola*	(Manton, 1940)	STE/SVO
	Corymorphidae		
2	*Lampra microrhiza*	Hickson and Gravely, 1907	STE/SVO
	Eudendriidae		
3	*Eudendrium antarcticum*	Totton, 1930	STE/SVO
4	*Eudendrium rameum*	(Pallas, 1766)	STE/SVO
	Calycopsidae		
5	*Calycopsis borchgrevinki*	(Browne, 1910)	STE/SVO
	Hydroidea, Thecaphora		
	Campanulinidae		
6	*Stegella grandis*	(Hickson and Gravely, 1907)	STE/SVO
7	*Opercularella belgicae*	(Hartlaub, 1904)	STE/SVO
	Lafoeidae		
8	*Filellum antarcticum*	(Hartlaub, 1904)	STE/SVO
9	*Filellum serratum*	(Clarke, 1879)	STE/SVO
	Zygophylacidae		
10	*Abietinella operculata*	(Jaederholm, 1903)	STE/SVO
	Campanulariidae		
11	*Billardia subrufa*	(Jaederholm, 1904)	STE/SVO
12	*Campanularia hicksoni*	Totton, 1930	STE/SVO
	Sertulariidae		
13	*Symplectoscyphus glacialis*	(Jaederholm, 1904)	STE/SVO
14	*Symplectoscyphus naumovi*	Blanco, 1969	STE/SVO
15	*Symplectoscyphus plectilis*	(Hickson and Gravely, 1907)	STE/SVO
16	*Symplectoscyphus subdichotomus*	(Kirchenpauer, 1884)	STE/SVO
17	*Symplectoscyphus paulensis*	(Stechow, 1923)	STE/SVO
18	*Symplectoscyphus* cf. *aggregatus*	(Jaederholm, 1916-1917)	STE/SVO
19	*Symplectoscyphus unilateralis*	(Lamouroux, 1824)	STE/SVO
20	*Antarctoscyphus spiralis*	(Hickson and Gravely, 1907)	STE/SVO
21	*Symplectoscyphus cumberlandicus*	(Jaederholm, 1905)	STE/SVO
22	*Staurotheca dichotoma*	Allman, 1888	STE/SVO
23	*Staurotheca* cf. *stolonifera*	(Hartlaub, 1904)	STE/SVO
24	*Staurotheca antarctica*	Hartlaub, 1904	STE/SVO
25	*Staurotheca polarsterni*	Pena Cantero, Svoboda and Vervoort, 1997	STE/SVO
26	*Staurotheca (Dictyocladium)* cf. *juncea*	(Vanhoeffen, 1910)	STE/SVO
	Kirchenpaueriidae		
27	*Oswaldella shetlandica*	(Stepanjants, 1979)	STE/SVO
28	*Oswaldella bifurca*	(Hartlaub, 1904)	STE/SVO
29	*Oswaldella antarctica*	(Jaederholm, 1904)	STE/SVO
	Halopteridae		
30	*Schizotricha turqueti*	Billard, 1906	STE/SVO
31	*Schizotricha unifurcata*	Allman, 1883	STE/SVO
	Haleciidae		
32	*Halecium delicatulum*	Coughtrey, 1876	STE/SVO
33	*Halecium pallens*	Jaederholm, 1904	STE/SVO
34	*Halecium jaederholmi*	Vervoort, 1972	STE/SVO
35	*Halecium tenellum*	Hincks, 1861	STE/SVO
36	*Halecium ovatum*	Totton, 1930	STE/SVO
	Siphonophora, Calycophorida		
	Diphyidae		
37	*Diphyes antarctica*	Moser, 1925	STE
	SCYPHOZOA		
	Coronata		
	Collaspidae		
1	*Atolla wyvillei*	Haeckel, 1880	STE

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	*01*	*05*	*09*	*29*	*06*	*02*	*06*	*04*	*24*	*25*	*25*	*06*	*09*	*09*	*30*	*05*	*25*	*26*
area	Kapp Norvegia area																	
Leucosoleniidae																		
Scypha truncata				•				•		•							•	
CNIDARIA																		
HYDROZOA																		
Hydroidea, Athecaphora																		
Candelabridae																		
Candelabrum penola													•	•				
Corymorphidae																		
Lampra microrhiza														•				
Eudendriidae																		
Eudendrium antarcticum					•													•
Eudendrium rameum							•											
Calycopsidae																		
Calycopsis borchgrevinki																		
Hydroidea, Thecaphora																		
Campanulinidae																		
Stegella grandis		•				•		•				•						•
Opercularella belgicae																		
Lafoeidae																		
Filellum antarcticum		•				•		•										
Filellum serratum							•											
Zygophylacidae																		
Abietinella operculata					•		•											
Campanulariidae																		
Billardia subrufa		•			•			•				•		•	•			
Campanularia hicksoni																		
Sertulariidae																		
Symplectoscyphus glacialis														•				•
Symplectoscyphus naumovi							•					•						
Symplectoscyphus plectilis							•					•						•
Symplectoscyphus subdichotomus					•													
Symplectoscyphus paulensis																		
Symplectoscyphus cf. *aggregatus*					•													
Symplectoscyphus unilateralis						•												
Antarctoscyphus spiralis																		
Symplectoscyphus cumberlandicus																		
Staurotheca dichotoma																	•	•
Staurotheca cf. *stolonifera*		•																
Staurotheca antarctica					•		•											
Staurotheca polarsterni					•													
Staurotheca (Dictyocladium) cf. *juncea*							•											
Kirchenpauerlidae																		
Oswaldella shetlandica		•					•											
Oswaldella bifurca					•													
Oswaldella antarctica					•							•						
Halopteridae																		
Schizotricha turqueti						•												
Schizotricha unifurcata						•												
Halecilidae																		
Halecium delicatulum							•											•
Halecium pallens					•		•											
Halecium jaederholmi							•											
Halecium tenellum																		
Halecium ovatum					•	•												
Siphonophora, Calycophorida																		
Diphyidae																		
Diphyes antarctica																		
SCYPHOZOA																		
Coronata																		
Collaspidae																		
Atolla wyvillei																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	*26*	*09*	*30*	*31*	*32*	*05*	*04*	*02*	*02*	*02*	*07*	*04*	*24*	*25*	*25*	*03*	*29*
area							Kapp Norvegia area										
Leucosoleniidae																	
Scypha truncata	•									•							
CNIDARIA																	
HYDROZOA																	
Hydroidea, Athecaphora																	
Candelabridae																	
Candelabrum penola																	
Corymorphidae																	
Lampra microrhiza																	
Eudendriidae																	
Eudendrium antarcticum																	
Eudendrium rameum																	
Calycopsidae																	
Calycopsis borchgrevinki																	
Hydroidea, Thecaphora																	
Campanulinidae																	
Stegella grandis											•						
Opercularella belgicae	•																
Lafoeidae																	
Filellum antarcticum	•																
Filellum serratum																	
Zygophylacidae																	
Abietinella operculata																	
Campanulariidae																	
Billardia subrufa		•															•
Campanularia hicksoni	•																
Sertulariidae																	
Symplectoscyphus glacialis		•															
Symplectoscyphus naumovi	•											•					
Symplectoscyphus plectilis																	
Symplectoscyphus subdichotomus	•																
Symplectoscyphus paulensis	•																
Symplectoscyphus cf. *aggregatus*																	
Symplectoscyphus unilateralis																	
Antarctoscyphus spiralis	•																
Symplectoscyphus cumberlandicus	•																
Staurotheca dichotoma														•	•		
Staurotheca cf. *stolonifera*																	
Staurotheca antarctica																	
Staurotheca polarsterni																	
Staurotheca (Dictyocladium) cf. *juncea*																	
Kirchenpaueriidae																	
Oswaldella shetlandica	•																
Oswaldella bifurca																	
Oswaldella antarctica	•																
Halopteridae																	
Schizotricha turqueti	•																
Schizotricha unifurcata																	
Halecilidae																	
Halecium delicatulum																	
Halecium pallens																	
Halecium jaederholmi																	
Halecium tenellum		•															
Halecium ovatum																	
Siphonophora, Calycophorida																	
Diphyidae																	
Diphyes antarctica																	
SCYPHOZOA																	
Coronata																	
Collaspidae																	
Atolla wyvillei																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Leucosolenidae												
Scypha truncata		•			•							•
CNIDARIA												
HYDROZOA												
Hydroidea, Athecaphora												
Candelabridae												
Candelabrum penola												
Corymorphidae												
Lampra microrhiza												
Eudendriidae												
Eudendrium antarcticum												
Eudendrium rameum												
Calycopsidae												
Calycopsis borchgrevinki								•		•		
Hydroidea, Thecaphora												
Campanulinidae												
Stegella grandis							•					
Opercularella belgicae												
Lafoeidae												
Filellum antarcticum												
Filellum serratum												
Zygophylacidae												
Abietinella operculata							•					
Campanulariidae												
Billardia subrufa					•	•	•					
Campanularia hicksoni												
Sertulariidae												
Symplectoscyphus glacialis							•					
Symplectoscyphus naumovi	•											
Symplectoscyphus plectilis							•					
Symplectoscyphus subdichotomus	•										•	
Symplectoscyphus paulensis												
Symplectoscyphus cf. *aggregatus*							•					
Symplectoscyphus unilateralis												
Antarctoscyphus spiralis												
Symplectoscyphus cumberlandicus												
Staurotheca dichotoma												
Staurotheca cf. *stolonifera*												
Staurotheca antarctica							•					
Staurotheca polarsterni												
Staurotheca (Dictyocladium) cf. *juncea*												
Kirchenpauerlidae												
Oswaldella shetlandica	•					•	•					
Oswaldella bifurca												
Oswaldella antarctica												
Halopteridae												
Schizotricha turqueti												
Schizotricha unifurcata												
Haleciidae												
Halecium delicatulum												
Halecium pallens												
Halecium jaederholmi												
Halecium tenellum												
Halecium ovatum												
Siphonophora, Calycophorida												
Diphyidae												
Diphyes antarctica								•				
SCYPHOZOA												
Coronata												
Collaspidae												
Atolla wyvillei			•									

			det.
	Periphyllidae		
2	*Periphylla periphylla*	(Peron and Lesueur, 1809)	STE
	ANTHOZOA		
	Hexacorallia		
	Corallimorpharia		
	Corallimorphidae		
1	*Corallimorphus profundus*	Moseley, 1877	GRE
	Actiniaria		
	Actiniidae		
2	*Bolocera kerguelensis*	Studer, 1879	GRE
3	*Aulactinia sulcata*	(Clubb, 1902)	GRE
4	*Glyphoperidium bursa*	(Roule, 1911)	GRE
5	*Epiactis georgiana*	Carlgren, 1927	GRE
6	*Urticinopsis antarctica*	(Verrill, 1922)	GRE
7	*Isosicyonis alba*	(Studer, 1879)	GRE
	Capneidae		
8	*Capnea georgiana*	(Carlgren, 1927)	GRE
	Actinostolidae		
9	*Stomphia selaginella*	(Stephenson, 1918)	GRE
10	*Hormosoma* cf. *scotti*	Stephenson, 1918	GRE
11	*Sicyonis* cf. *erythrocephala*	(Pax, 1922)	GRE
12	*Pseudoparactis tenuicollis*	(McMurrich, 1904)	GRE
	Hormathiidae		
13	*Hormathia lacunifera*	(Stephenson, 1918)	GRE
	Octocorallia		
	Stolonifera		
	Clavulariidae		
14	*Sympodium antarcticum*	Gravier, 1913	SLE
	Alcyonaria		
	Alcyoniidae		
15	*Alcyonium clavatum*	(Pfeffer, 1889)	SLE
	Nephteidae		
16	*Gersemia hicksoni*	(Gravier, 1913)	SLE
	Gorgonaria		
	Primnoidae		
17	*Thouarella variabilis*	Wright and Studer, 1889	SLE
18	*Thouarella longispinosa* (* = *T.* cf. *longispinosa*)	Kukenthal, 1912	SLE
19	*Primnoella scotia*	Thomson and Ritchie, 1906	SLE
20	*Primnoella vanhoeffeni*	Kukenthal, 1909	SLE
21	*Primnoella biserialis*	Wright and Studer, 1889	SLE
22	*Caligorgia kukenthali*	Molander, 1929	SLE
23	*Caligorgia ventilabrum*	Studer, 1878	SLE
24	*Ascolepis spinosa*	Thomson and Rennet, 1931	SLE
25	*Ainigmaptilon antarcticus*	(Molander, 1929)	SLE
26	*Ainigmaptilon edisto*	Bayer, 1950	SLE
	Isididae		
27	*Primnoisis armata*	Kukenthal, 1912	SLE
28	*Primnoisis* cf. *antarctica*	(Th. Studer,1878)	SLE
29	*Primnoisis* cf. *formosa*	Gravier, 1913	SLE
30	*Notisis* cf. *fragilis*	Gravier, 1913	SLE
31	*Mopsea tenuis*	Molander, 1929	SLE
	Pennatularia		
	Umbellulidae		
32	*Umbellula magniflora*	Kolliker, 1885	SLE
33	*Umbellula* cf. *lindhali*	Kolliker, 1874	SLE
	TENTACULATA		
	BRYOZOA		
	Chellostomata		
	Scrupariidae		
1	*Brettiopsis triplex*	(Hastings, 1943)	xZAB
2	*Leiosalpinx inornata*	(Goldstein, 1882)	•GON

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Periphyllidae																		
Periphylla periphylla																		
ANTHOZOA																		
Hexacorallia																		
Corallimorpharia																		
Corallimorphidae																		
Corallimorphus profundus				•														
Actiniaria																		
Actiniidae																		
Bolocera kerguelensis																		
Aulactinia sulcata				•														
Glyphoperidium bursa	•																	
Epiactis georgiana	•	•		•				•										
Urticinopsis antarctica				•														
Isosicyonis alba	•													•				
Capneidae																		
Capnea georgiana	•	•	•	•	•		•		•				•	•				
Actinostolidae																		
Stomphia selaginella							•											
Hormosoma cf. *scotti*	•																	
Sicyonis cf. *erythrocephala*		•	•	•	•							•	•	•				
Pseudoparactis tenuicollis																		
Hormathiidae																		
Hormathia lacunifera	•	•		•	•				•	•		•		•				
Octocorallia																		
Stolonifera																		
Clavularidae																		
Sympodium antarcticum				•									•					
Alcyonaria																		
Alcyoniidae																		
Alcyonium clavatum				•						•		•					•	
Nephteidae																		
Gersemia hicksoni																	•	
Gorgonaria																		
Primnoidae																		
Thouarella variabilis		•		•									•					
Thouarella longispinosa (* = *T.* cf. *longispinosa*)	•*	•	•	•	•			•				•		•				
Primnoella scotia				•								•		•				
Primnoella vanhoeffeni			•	•														
Primnoella biserialis													•					
Caligorgia kukenthali			•	•									•	•		•		
Caligorgia ventilabrum	•											•						
Ascolepis spinosa			•									•				•		
Ainigmaptilon antarcticus				•					•									
Ainigmaptilon edisto	•																	
Isididae																		
Primnoisis armata					•		•											
Primnoisis cf. *antarctica*	•	•						•					•					•
Primnoisis cf. *formosa*									•									
Notisis cf. *fragilis*			•															
Mopsea tenuis																		
Pennatularia																		
Umbellulidae																		
Umbellula magniflora	•			•														
Umbellula cf. *lindhali*													•					
TENTACULATA																		
BRYOZOA																		
Cheilostomata																		
Scrupariidae																		
Brettiopsis triplex																		
Leiosalpinx inornata									•									

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Periphyllidae																	
Periphylla periphylla																	
ANTHOZOA																	
Hexacorallia																	
Corallimorpharia																	
Corallimorphidae																	
Corallimorphus profundus																	
Actiniaria																	
Actiniidae																	
Bolocera kerguelensis																	
Aulactinia sulcata																	
Glyphoperidium bursa																	
Epiactis georgiana																	
Urticinopsis antarctica																	
Isosicyonis alba																	
Capneidae																	
Capnea georgiana																	
Actinostolidae																	
Stomphia selaginella																	
Hormosoma cf. *scotti*																	
Sicyonis cf. *erythrocephala*																	
Pseudoparactis tenuicollis																	
Hormathiidae																	
Hormathia lacunifera	•																
Octocorallia																	
Stolonifera																	
Clavulariidae																	
Sympodium antarcticum		•			•												
Alcyonaria																	
Alcyoniidae																	
Alcyonium clavatum																	
Nephteidae																	
Gersemia hicksoni																	
Gorgonaria																	
Primnoidae																	
Thouarella variabilis					•												
Thouarella longispinosa (* = *T.* cf. *longispinosa*)	•				•												
Primnoella scotia																	
Primnoella vanhoeffeni																	
Primnoella biserialis																	
Caligorgia kukenthali																	
Caligorgia ventilabrum																	
Ascolepis spinosa					•												
Ainigmaptilon antarcticus																	
Ainigmaptilon edisto																	
Isididae																	
Primnoisis armata																	
Primnoisis cf. *antarctica*		•			•												
Primnoisis cf. *formosa*																	
Notisis cf. *fragilis*																	
Mopsea tenuis									•								
Pennatularia																	
Umbellulidae																	
Umbellula magniflora																	
Umbellula cf. *lindhali*		•															
TENTACULATA																	
BRYOZOA																	
Cheilostomata																	
Scrupariidae																	
Brettiopsis triplex					x												
Leiosalpinx inornata																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Periphyllidae												
Periphylla periphylla								•				
ANTHOZOA												
Hexacorallia												
Corallimorpharia												
Corallimorphidae												
Corallimorphus profundus												
Actiniaria												
Actiniidae												
Bolocera kerguelensis												•
Aulactinia sulcata												
Glyphoperidium bursa												
Epiactis georgiana						•						
Urticinopsis antarctica												
Isosicyonis alba	•	•	•	•			•					
Capneidae												
Capnea georgiana						•						
Actinostolidae												
Stomphia selaginella	•											
Hormosoma cf. *scotti*												
Sicyonis cf. *erythrocephala*	•	•	•		•	•	•					
Pseudoparactis tenuicollis				•								
Hormathiidae												
Hormathia lacunifera					•	•						
Octocorallia												
Stolonifera												
Clavularidae												
Sympodium antarcticum					•		•					
Alcyonaria												
Alcyoniidae												
Alcyonium clavatum				•								
Nephteidae												
Gersemia hicksoni	•			•								
Gorgonaria												
Primnoidae												
Thouarella variabilis												
Thouarella longispinosa (* = *T.* cf. *longispinosa*)	•	•					•					
Primnoella scotia		•										
Primnoella vanhoeffeni												
Primnoella biserialis												
Caligorgia kukenthali										•		
Caligorgia ventilabrum												
Ascolepis spinosa												
Ainigmaptilon antarcticus												
Ainigmaptilon edisto												
Isididae												
Primnoisis armata												
Primnoisis cf. *antarctica*												
Primnoisis cf. *formosa*												
Notisis cf. *fragilis*												
Mopsea tenuis												
Pennatularia												
Umbellulidae												
Umbellula magniflora												
Umbellula cf. *lindhali*		•		•							•	•
TENTACULATA												
BRYOZOA												
Cheilostomata												
Scrupariidae												
Brettiopsis triplex												
Leiosalpinx inornata												

			det.
	Flustridae		
3	*Carbasea curva*	(Kluge, 1914)	•GON, xZAB
4	*Carbasea ovoidea*	Busk, 1852	•GON, xZAB
5	*Klugeflustra vanhoffeni*	(Kluge, 1914)	•GON, xZAB
6	*Klugeflustra antarctica*	(Hastings, 1943)	•GON, xZAB
7	*Klugeflustra drygalski*	(Kluge, 1914)	•GON
8	*Isosecuriflustra tenuis*	(Kluge, 1914)	•GON, xZAB
9	*Isosecuriflustra angusta*	(Kluge, 1914)	•GON, xZAB
10	*Isosecuriflustra vanhoffeni*	(Kluge, 1914)	•GON
11	*Isosecuriflustra thysanica*	(Moyano, 1972)	•GON, xZAB
12	*Astroflustra vulgaris*	(Kluge, 1914)	•GON, xZAB
13	*Nematoflustra flagellata*	(Waters, 1904)	•GON, xZAB
	Calloporidae		
14	*Ellisina antarctica*	Hastings, 1945	•GON, xZAB
15	*Ellisina constantina*	(Kluge, 1914)	•GON, xZAB
16	*Amphiblestrum familiaris*	Hayward and Thorpe, 1989	•GON
17	*Amphiblestrum inermis*	(Kluge, 1914)	•GON, xZAB
18	*Amphiblestrum rossi*	Hayward and Thorpe 1989	xZAB
19	*Crassimarginatella inconstantia*	(Kluge, 1914)	•GON, xZAB
20	*Crassimarginatella perlucida*	(Kluge, 1914)	•GON, xZAB
21	*Pyriporoides uniserialis*	Waters 1904	•GON
	Chaperiidae		
22	*Chaperiopsis orbiculata*	Hayward and Thorpe, 1988	•GON
23	*Chaperiopsis patulosa*	(Waters, 1904)	•GON
24	*Chaperiopsis protecta*	(Waters, 1904)	•GON, xZAB
25	*Chaperiopsis quadrispinosa*	(Moyano, 1966)	•GON, xZAB
26	*Exallozoon simplicissimum*	(Kluge, 1914)	•GON
27	*Icelozoon lepralioides*	(Kluge, 1914)	•GON
	Bugulidae		
28	*Camptolites retiformis*	(Kluge, 1914)	•GON, xZAB
29	*Camptolites angustus*	(Kluge, 1914)	•GON
30	*Camptolites tricornis*	(Waters, 1904)	•GON, xZAB
31	*Camptolites giganteus*	(Kluge, 1914)	•GON, xZAB
32	*Camptoplites areolatus*	(Kluge, 1914)	xZAB
33	*Camptoplites bicornis*	(Busk, 1884)	•GON, xZAB
34	*Camptoplites latus*	(Kluge, 1914)	•GON, xZAB
35	*Camptoplites lewaldi*	(Kluge, 1914)	•GON, xZAB
36	*Camptoplites rectilinearis*	Hastings, 1943	•GON
37	*Cornucopina ovalis*	Hastings, 1943	•GON
38	*Cornucopina polymorpha*	(Kluge, 1914)	•GON, xZAB
39	*Cornucopina pectogemma*	(Goldstein, 1882)	•GON, xZAB
40	*Himantozoum antarcticum*	(Calvet, 1909)	•GON, xZAB
41	*Himantozoum obtusum*	Hastings, 1943	•GON
42	*Klugella echinata*	(Kluge, 1914)	•GON, xZAB
	Cabereidae		
43	*Caberea darwinii*	Busk, 1884	•GON, xZAB
44	*Amastigia gaussi*	(Kluge, 1914)	•GON, xZAB
45	*Amastigia cabereoides*	(Kluge, 1914)	•GON
46	*Amastigia solida*	(Kluge, 1914)	•GON, xZAB
47	*Notoplites vanhoffeni*	(Kluge, 1914)	•GON, xZAB
48	*Notoplites drygalski*	(Kluge, 1914)	•GON, xZAB
49	*Notoplites antarcticus*	(Waters, 1904)	•GON, xZAB
50	*Notoplites tenuis*	(Kluge, 1914)	•GON, xZAB
51	*Notoplites watersi*	(Kluge, 1904)	•GON
	Beanlidae		
52	*Beania challengeri*	Hastings, 1943	•GON
53	*Beania erecta* (* = *B. erecta livingstonei*)	Waters, 1904 (Hastings, 1943)	•GON, xZAB
	Microporidae		
54	*Micropora brevissima*	Waters, 1904	•GON, xZAB
55	*Micropora notialis*	Hayward and Ryland, 1993	•GON
56	*Apiophragma hyalina*	(Waters, 1904)	•GON, xZAB

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Flustridae																		
Carbasea curva	•			•x	x	•x	•x	•x	•x	•x		•x	•x	•	•	•		•
Carbasea ovoidea										x								
Klugeflustra vanhoffeni						•x	x	x	▪	•x		•	•x			•x	•	•
Klugeflustra antarctica				•														
Klugeflustra drygalski																		
Isosecuriflustra tenuis		▪	▪	•x		•x	•	▪	•x	•x		•x	•x	▪			•	•
Isosecuriflustra angusta				•x	x	•	•x	•x	•	x	•	•x	•x	•	•	•	•	
Isosecuriflustra vanhoffeni				▪							•							
Isosecuriflustra thysanica				x					x									•
Astroflustra vulgaris				•x		x			•				•x	•			•	
Nematoflustra flagellata	•	•	•	•	x	•x	•x	•x	•x	•		•x	•x	•		•	•	•
Calloporidae																		
Ellisina antarctica	x			x		•x	•		•x	x							•	•
Ellisina constantina									x	x								•
Amphiblestrum familiaris																		
Amphiblestrum inermis						•			•x	•							•	•
Amphiblestrum rossi										x								
Crassimarginatella inconstantia										x								
Crassimarginatella perlucida			x		x		•											
Pyriporoides uniserialis																		
Chaperiidae																		
Chaperiopsis orbiculata																		
Chaperiopsis patulosa																		
Chaperiopsis protecta						•										x		•
Chaperiopsis quadrispinosa									•				•			x		
Exallozoon simplicissimum																		
Icelozoon lepralioides						•												
Bugulidae																		
Camptolites retiformis					x			•	•x	x	•							
Camptolites angustus						•			•				•			•		
Camptolites tricornis		•		•		•x	•		x			•		•		•x		•
Camptolites giganteus									•									
Camptoplites areolatus																		
Camptoplites bicornis				•		•		•				•					•	•
Camptoplites latus								x	•			x	x					
Camptoplites lewaldi		•		x		x		x	•x									•
Camptoplites rectilinearis									•			•				•		•
Cornucopina ovalis																		
Cornucopina polymorpha				x			x	▪					x					
Cornucopina pectogemma									•	x							•	
Himantozoum antarcticum		•		•x		•x	•x	x	•x				•x	•			•	•
Himantozoum obtusum						•		•	•			•						•
Klugella echinata				•x		•		•x					•x	▪				•
Cabereidae																		
Caberea darwinii						•x	•x	•x	▪			•				•x		•
Amastigia gaussi																		
Amastigia cabereoides																		
Amastigia solida						•	•x	•				•▪						
Notoplites vanhoffeni						•x	x	•	•					•				•
Notoplites drygalski				x	x	•	•	•x	•	x	•	•x	•x	•		•	•	
Notoplites antarcticus						•x	•			•								
Notoplites tenuis																		
Notoplites watersi																		
Beanidae																		
Beania challengeri						•	•											•
Beania erecta (* = *B. erecta livingstonei*)				x		x			•x							•x		
Microporidae																		
Micropora brevissima	•▪			•x		•		•		•x	•▪		x			x	•	•
Micropora notialis																		
Apiophragma hyalina																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Flustridae																	
Carbasea curva		•			•					•				•	•		•
Carbasea ovoidea					•												
Klugeflustra vanhoffeni					•												
Klugeflustra antarctica					•												
Klugeflustra drygalski																	
Isosecuriflustra tenuis		•								•			•	•	•		•
Isosecuriflustra angusta		•			•x					•		•		•			•
Isosecuriflustra vanhoffeni																	
Isosecuriflustra thysanica					x												
Astroflustra vulgaris		•												•			
Nematoflustra flagellata		•			•					•				•	•		•
Calloporidae																	
Ellisina antarctica		•			•					•				•	•		
Ellisina constantina					•					•							
Amphiblestrum familiaris					•												
Amphiblestrum inermis					•												
Amphiblestrum rossi																	
Crassimarginatella inconstantia					•												
Crassimarginatella perlucida																	
Pyriporoides uniserialis														•			
Chaperiidae																	
Chaperiopsis orbiculata					•												
Chaperiopsis patulosa					•												
Chaperiopsis protecta					•												
Chaperiopsis quadrispinosa					•												
Exallozoon simplicissimum					•												
Icelozoon lepralioides																	
Bugulidae																	
Camptolites retiformis		•															
Camptolites angustus		•														•	
Camptolites tricornis		•			•x												•
Camptolites giganteus					•												
Camptoplites areolatus																	
Camptoplites bicornis		•			x												
Camptoplites latus					•												
Camptoplites lewaldi					x												
Camptoplites rectilinearis										•							
Cornucopina ovalis					•												
Cornucopina polymorpha					x		x										
Cornucopina pectogemma					•									•			
Himantozoum antarcticum		•			•									•	•		•
Himantozoum obtusum					•												
Klugella echinata		•			•												•
Cabereidae																	
Caberea darwinii					•					•							
Amastigia gaussi				•	x												
Amastigia cabereoides															•		
Amastigia solida					•												
Notoplites vanhoffeni					•									•	•		
Notoplites drygalski		•			•					•	•				•	•	
Notoplites antarcticus																	
Notoplites tenuis					•x												
Notoplites watersi		•												•			
Beaniidae																	
Beania challengeri					•					•							
Beania erecta (* = *B. erecta livingstonei*)					•*x												
Microporidae																	
Micropora brevissima					•x									•	•		
Micropora notialis																	
Apiophragma hyalina					•												

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Flustridae												
Carbasea curva		•x	•x		•x	x						•
Carbasea ovoidea												
Klugeflustra vanhoffeni						•						
Klugeflustra antarctica						x						
Klugeflustra drygalski		•										
Isosecuriflustra tenuis												
Isosecuriflustra angusta	•	•x			•	x	•					
Isosecuriflustra vanhoffeni												
Isosecuriflustra thysanica												
Astroflustra vulgaris					•							
Nematoflustra flagellata		•x	•x	•x	•x	x	•					
Calloporidae												
Ellisina antarctica												x
Ellisina constantina												
Amphiblestrum familiaris												
Amphiblestrum inermis	•	•x										
Amphiblestrum rossi												
Crassimarginatella inconstantia												
Crassimarginatella perlucida												
Pyriporoides uniserialis												
Chaperiidae												
Chaperiopsis orbiculata												
Chaperiopsis patulosa												
Chaperiopsis protecta					•							
Chaperiopsis quadrispinosa	•	•										
Exallozoon simplicissimum												
Icelozoon lepralioides												
Bugulidae												
Camptolites retiformis												
Camptolites angustus												
Camptolites tricornis	•					x						
Camptolites giganteus						x						
Camptoplites areolatus		x										
Camptoplites bicornis												
Camptoplites latus	x											
Camptoplites lewaldi			x									
Camptoplites rectilinearis												
Cornucopina ovalis												
Cornucopina polymorpha												
Cornucopina pectogemma												
Himantozoum antarcticum						x						
Himantozoum obtusum		•										
Klugella echinata		x	•x									
Cabereidae												
Caberea darwinii					x	•						
Amastigia gaussi												
Amastigia cabereoides												
Amastigia solida		x										
Notoplites vanhoffeni					•							
Notoplites drygalski	•	x				x						
Notoplites antarcticus												
Notoplites tenuis												
Notoplites watersi												
Beaniidae												
Beania challengeri												
Beania erecta (* = *B. erecta livingstonei*)												x
Microporidae												
Micropora brevissima		•x			•x							
Micropora notialis					•							
Aplophragma hyalina												x

			det.
	Onychocellidae		
57	*Chondriovelum adeliense*	(Livingstone, 1922)	•GON, xZAB
	Cellaridae		
58	*Cellaria aurorae*	Livingstone, 1928	•GON, xZAB
59	*Cellaria coronata*	(Rogick, 1956)	•GON
60	*Cellaria diversa*	Livingston, 1928	•GON, xZAB
61	*Cellaria incula*	Hayward and Thorpe, 1993	•GON, xZAB
62	*Cellaria moniliorata*	Rogick, 1956	•GON, xZAB
63	*Cellaria clavata*	(Busk, 1884)	•GON
64	*Cellaria saggitula*	Hayward and Ryland, 1993	•GON
65	*Paracellaria wandeli*	(Calvet, 1909)	•GON, xZAB
66	*Swanomia belgica*	Hayward and Ryland, 1993	•GON, xZAB
67	*Swanomia brevimandibulata*	(Moyano, 1969)	•GON, xZAB
68	*Swanomia membranacea*	(Thornely, 1924)	•GON, xZAB
69	*Stomhypselosaria watersi*	Hayward and Thorpe, 1989	•GON
70	*Melicerita blancoae*	López Gappa, 1981	•GON
71	*Melicerita digeronimoi*	Rosso, 1992	•GON
72	*Melicerita flabellifera*	Hayward and Winston, 1994	•GON, xZAB
73	*Melicerita latilaminata*	Rogick, 1956	•GON
74	*Melicerita obliqua*	(Thornely, 1924)	•GON, xZAB
	Aspidostomatidae		
75	*Aspidostoma coronatum*	(Thornely, 1928)	xZAB
76	*Larvapora mawsoni*	(Livingstone, 1924)	•GON, xZAB
	Cribrilinidae		
77	*Dendroperistomata projecta*	(Waters, 1904)	•GON, xZAB
78	*Klugerella antarctica*	(Kluge, 1914)	•GON
79	*Filaguria spatulata*	(Calvet, 1909)	•GON, xZAB
	Exochellidae		
80	*Exochella hymanae*	(Rogick, 1956)	•GON, xZAB
81	*Exochella longirostris*	Jullien, 1888	•GON
82	*Exochella mammilata*	Hayward and Thorpe, 1989	•GON
83	*Exochella rogickae*	Hayward, 1991	•GON, xZAB
84	*Escharella watersi*	Hayward and Thorpe, 1989	•GON, xZAB
85	*Escharoides praestita*	(Waters, 1904)	•GON, xZAB
86	*Escharoides torquata*	Hayward and Ryland, 1991	•GON
87	*Romancheina asymmetrica*	Moyano, 1975	•GON
88	*Romancheina barica*	(Rogick, 1955)	•GON, xZAB
89	*Antarcticaetos bubbeccata*	(Rogick, 1955)	•GON, xZAB
90	*Lageneschara lyrulata*	(Calvet, 1909)	•GON, xZAB
	Arachnopusiidae		
91	*Arachnopusia aviculifera*	Hayward and Thorpe, 1988	•GON, xZAB
92	*Arachnopusia columnaris*	Hayward and Thorpe, 1988	•GON
93	*Arachnopusia gigantea*	(Kluge, 1914)	•GON, xZAB
94	*Arachnopusia latiavicularis*	Moyano, 1970	•GON, xZAB
95	*Arachnopusia tubula*	Hayward and Thorpe, 1988	•GON
96	*Trilaminopora trinervis*	(Waters, 1904)	•GON, xZAB
	Umbonulidae		
97	*Astachoporella cassidula*	Hayward and Thorpe, 1988	•GON, xZAB
	Metrarabdotosidae		
98	*Polirhabdotus inclusum*	(Waters, 1904)	•GON, xZAB
	Sclerodomidae		
99	*Cellarinella anomala*	Hayward and Ryland, 1991	•GON
100	*Cellarinella nutti*	Rogick, 1956	•GON, xZAB
101	*Cellarinella rogickae*	Moyano, 1965	•GON, xZAB
102	*Cellarinella njegovanae*	Rogick, 1956	•GON, xZAB
103	*Cellarinella margueritae*	Rogick, 1956	•GON
104	*Cellarinella nodulata*	Waters, 1904	•GON, xZAB
105	*Cellarinella edita*	Hayward and Ryland, 1991	•GON
106	*Cellarinella watersi*	Calvet, 1909	•GON, xZAB
107	*Cellarinella laytoni*	Rogick, 1956	•GON, xZAB
108	*Cellarinella foveolata*	Waters, 1904	•GON, xZAB
109	*Cellarinella latilaminata*	Moyano, 1974	•GON

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Onychocellidae																		
Chondriovelum adeliense	•x	▪			x	•x	•x											•
Cellariidae																		
Cellaria aurorae		•		•x		•x	•x	•x	•	x		•		•		•x	▪	▪
Cellaria coronata																		•
Cellaria diversa				x		•x	x		•x			x				•		•
Cellaria incula		•				•	•		•	•x		•					•	•
Cellaria moniliorata				▪	x	•x	•x	x	x			x						•
Cellaria clavata																		
Cellaria saggitula																		
Paracellaria wandeli		•			x	•x	•x		•x	•x						•x	•	•
Swanomia belgica				x				•x		x		x	x				•	
Swanomia brevimandibulata				•		•		▪		•x		•	•			•	•	•
Swanomia membranacea				•x	x	▪	•x	•x	•x			•x		•		x		
Stomhypselosaria watersi							•					•						
Melicerita blancoae									•							•		•
Melicerita digeronimoi							•											
Melicerita flabellifera						x	•		•x			•x		•		•		•
Melicerita latilaminata																		
Melicerita obliqua	•x	•		•x	x	•x	x			•x		x				•x		
Aspidostomatidae																		
Aspidostoma coronatum										x								
Larvapora mawsoni				▪	x	•	•x	•x	•							•x		
Cribrilinidae																		
Dendroperistomata projecta	x	▪			x	•x	•x	▪	x	x		•	x			•x	•	•
Klugerella antarctica									•								•	
Filaguria spatulata						x	•											•
Exochellidae																		
Exochella hymanae			•			▪			x	x						•		
Exochella longirostris																		
Exochella mammilata																		
Exochella rogickae		•				•	•x		x	x								
Escharella watersi		▪	▪	x	x	•	•x	•x	•x	x		•x				•x	▪	
Escharoides praestita						•x	•x		•x									•
Escharoides torquata												•						
Romancheina asymmetrica												•						
Romancheina barica								▪	x			•x						
Antarcticaetos bubbeccata						x		•x										
Lageneschara lyrulata		•		•x	x	•	•x	•x	•x			•x	•x	•		•x		▪
Arachnopusiidae																		
Arachnopusia aviculifera				x	x		•x	•		x		▪	x	•		x	•	•
Arachnopusia columnaris								•										
Arachnopusia gigantea						•	x		x							•		
Arachnopusia latlavicularis				•	x	•	x	•x	x			x				▪		•
Arachnopusia tubula	•	•	•	•		•			•	•	•						•	
Trilaminopora trinervis		▪		x		•	•	•	x	x		x				•x		▪
Umbonulidae																		
Astachoporella cassidula	▪							x										
Metrarabdotosidae																		
Polirhabdotus inclusum				•		•x	•	•	•x					•		•	•	•
Sclerodomidae																		
Cellarinella anomala																		
Cellarinella nutti	x	•		x	x		•x	•x	x	•x		•x	•x	•		x	▪	•
Cellarinella rogickae				•x		•		▪	•x	x		•x	•x	•				
Cellarinella njegovanae	▪			•x	x	•x	•x	•x	•x	x	▪	•x	•x	•		•x	•	•
Cellarinella margueritae	•	•				•	•	•				•	•				•	•
Cellarinella nodulata		•		x	x	x	x	•x	•x	x		x	x			•		▪
Cellarinella edita						•	•	•					•	•		•		
Cellarinella watersi		•		•		x	•	•									•	•
Cellarinella laytoni		•		•		x	•	•	•	•	•	•	•	•		•	•	•
Cellarinella foveolata	•x			•		•x		•					▪					
Cellarinella latilaminata			•					•	•				•	•				•

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Onychocellidae																	
Chondriovelum adeliense					•												
Cellariidae																	
Cellaria aurorae		•								•				•			
Cellaria coronata					•												
Cellaria diversa		•								•				•			
Cellaria incula					•												
Cellaria moniliorata					•					•							
Cellaria clavata					•								•				
Cellaria saggitula																	
Paracellaria wandeli					•x					•				•	•		
Swanomia belgica					•									•			
Swanomia brevimandibulata		•			•					•					•		•
Swanomia membranacea					•								•		•		
Stomhypselosaria watersi																	
Melicerita blancoae														•			
Melicerita digeronimoi																	
Melicerita flabellifera		•													•		
Melicerita latilaminata										•							
Melicerita obliqua					•												
Aspidostomatidae																	
Aspidostoma coronatum																	
Larvapora mawsoni					•					•							
Cribrilinidae																	
Dendroperistomata projecta					•					•				•			•
Klugerella antarctica																	
Filaguria spatulata										•							
Exochellidae																	
Exochella hymanae					•												
Exochella longirostris					•												
Exochella mammilata					•												
Exochella rogickae					•												
Escharella watersi					•					•							
Escharoides praestita					•					•							
Escharoides torquata					•												
Romancheina asymmetrica					•												
Romancheina barica																	
Antarcticaetos bubbeccata		•															
Lageneschara lyrulata		•			•x					•							
Arachnopusiidae																	
Arachnopusia aviculifera					•x									•			•
Arachnopusia columnaris														•			
Arachnopusia gigantea																	
Arachnopusia latiavicularis																	
Arachnopusia tubula					•										•		
Trilaminopora trinervis					•					•							
Umbonulidae																	
Astachoporella cassidula																	
Metrarabdotosidae																	
Polirhabdotus inclusum					•					•				•			•
Sclerodomidae																	
Cellarinella anomala					•									•			
Cellarinella nutti		•			•x					•				•	•		•
Cellarinella rogickae					•												
Cellarinella njegovanae		•									•	•		•	•	•	
Cellarinella margueritae										•				•			
Cellarinella nodulata					•												
Cellarinella edita																	
Cellarinella watersi					•					•							
Cellarinella laytoni		•			•x					•	•		•	•	•	•	
Cellarinella foveolata					x												•
Cellarinella latilaminata													•				

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Onychocellidae												
Chondriovelum adeliense												
Cellaridae												
Cellaria aurorae					•x							
Cellaria coronata												
Cellaria diversa												
Cellaria incula		•x			•		•					
Cellaria moniliorata	•	x			x	x						
Cellaria clavata												
Cellaria saggitula					•							
Paracellaria wandeli		•x			•x	x						
Swanomia belgica	x				•							
Swanomia brevimandibulata	•											
Swanomia membranacea	x				•	•						
Stomhypselosaria watersi												
Melicerita blancoae												
Melicerita digeronimoi												
Melicerita flabellifera		•			•							
Melicerita latilaminata												
Melicerita obliqua					•x							
Aspidostomatidae												
Aspidostoma coronatum												
Larvapora mawsoni		•x	•		•x		•					
Cribrilinidae												
Dendroperistomata projecta		x	x		•	•						
Klugerella antarctica												
Filaguria spatulata												
Exochellidae												
Exochella hymanae												
Exochella longirostris												
Exochella mammilata												
Exochella rogickae												x
Escharella watersi												
Escharoides praestita												
Escharoides torquata												
Romancheina asymmetrica												
Romancheina barica					x							
Antarcticaetos bubbeccata					•							
Lageneschara lyrulata						•						
Arachnopusiidae												
Arachnopusia aviculifera		x	x		•	x						
Arachnopusia columnaris												
Arachnopusia gigantea												
Arachnopusia latiavicularis	•x	•			•x							
Arachnopusia tubula	•	•	•									
Trilaminopora trinervis		x			•	x						
Umbonulidae												
Astachoporella cassidula		x										
Metrarabdotosidae												
Polirhabdotus inclusum		•			•							
Sclerodomidae												
Cellarinella anomala												
Cellarinella nutti	x	x	•		•x							
Cellarinella rogickae			•			x						
Cellarinella njegovanae	x				•	•	•					
Cellarinella margueritae					•	•	•					
Cellarinella nodulata		x			■							
Cellarinella edita												
Cellarinella watersi						x						
Cellarinella laytoni					•	•						
Cellarinella foveolata	•x	x	•x			x						
Cellarinella latilaminata					•			•				

			det.
110	*Cellarinella dubia*	Waters, 1904	•GON
111	*Cellarinella rossi*	Rogick, 1956	•GON
112	*Cellarinella virgula*	Hayward and Ryland, 1991	•GON
113	*Cellarinella terminata*	Hayward and Winston, 1994	•GON
114	*Cellarinelloides crassus*	Moyano, 1970	•GON, xZAB
115	*Systenopora contracta*	Waters, 1904	•GON, xZAB
	Hippothoidae		
116	*Celeporella alia*	Hayward, 1993	xZAB
117	*Celeporella antarctica*	Moyano and Gordon, 1980	•GON
	Hippopodinidae		
118	*Toretocheilum absidatum*	Rogick, 1960	•GON
119	*Toretocheilum turbinatum*	Hayward, 1995	xZAB
	Catenicellidae		
120	*Talivitaticella frigida*	(Waters, 1904)	•GON
	Eminooecidae		
121	*Isoschizoporella similis*	Hayward and Thorpe, 1988	•GON
122	*Isoschizoporella secunda*	Hayward and Taylor, 1984	•GON
123	*Isoschizoporella tricuspis*	(Calvet, 1909)	•GON, xZAB
124	*Isoschizoporella virgula*	Hayward and Thorpe, 1988	•GON
125	*Eminooecia carsonae*	(Rogick, 1957)	•GON, xZAB
	Hippopodinidae		
126	*Dakariella dabrowni*	(Rogick, 1962)	•GON
	Hippoporinidae		
127	*Kymella polaris*	(Waters, 1904)	•GON, xZAB
	Schizoporellidae		
128	*Buffonellodes antarctica*	Hayward, 1991	•GON, xZAB
	Lacernidae		
129	*Lacerna watersi*	Hayward and Thorpe, 1990	•GON, xZAB
130	*Lacerna hosteensis*	Jullien, 1888	•GON
	Smittinidae		
131	*Aimulosia australis*	Jullien, 1888	•GON
132	*Smittina alticollarita*	Rogick, 1956	•GON, xZAB
133	*Smittina anecdota*	Hayward and Thorpe, 1990	•GON, xZAB
134	*Smittina antarctica*	(Waters, 1904)	•GON, xZAB
135	*Smittina excertaviculata*	Rogick, 1956	•GON, xZAB
136	*Smittina directa*	(Waters, 1904)	•GON
137	*Smittina incernicula*	Hayward and Thorpe, 1990	•GON
138	*Smittina obicullata*	Rogick, 1956	•GON
139	*Smittina glebula*	Hayward and Thorpe, 1990	•GON
140	*Smittina rogickae*	Hayward and Thorpe, 1956	•GON, xZAB
141	*Smittoidea conspicua*	(Waters, 1904)	•GON
142	*Smittoidea albula*	Hayward and Taylor, 1984	•GON, xZAB
143	*Smittoidea malleata*	Hayward and Thorpe, 1989	•GON, xZAB
144	*Thrypticocirrus contortuplicata*	(Calvet, 1909)	•GON, xZAB
145	*Thrypticocirrus phylactelloides*	(Calvet, 1909)	•GON, xZAB
146	*Thrypticocirrus rogickae*	Hayward and Thorpe, 1988	•GON, xZAB
147	*Pemmatoporella marginata*	(Calvet, 1909)	•GON, xZAB
148	*Bostrychopora dentata*	(Waters, 1904)	•GON, xZAB
149	*Rhamphosmittina bassleri*	(Rogick, 1956)	•GON, xZAB
150	*Aspericreta favulosa*	(Hayward and Thorpe, 1984)	•GON
	Microporellidae		
151	*Adelascopora jeqolqa*	Moyano, 1984	•GON
152	*Adelascopora secunda*	Hayward and Thorpe, 1988	xZAB
153	*Microporella stenoporta*	Hayward and Taylor, 1984	•GON, xZAB
154	*Fenestrulina antarctica*	Hayward and Thorpe, 1989	•GON
155	*Fenestrulina cervicornis*	Hayward and Ryland, 1990	•GON, xZAB
156	*Fenestrulina proxima*	(Waters, 1904)	xZAB
	Celleporidae		
157	*Osthimosia claviformis*	Hayward, 1993	•GON
158	*Osthimosia clavata*	Waters, 1904	•GON
159	*Osthimosia bicornis*	(Busk, 1881)	•GON
160	*Osthimosia fusticula*	Hayward, 1992	•GON

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Cellarinella dubia									•									
Cellarinella rossi							•											
Cellarinella virgula	•																	
Cellarinella terminata				•				•				•	•					
Cellarinelloides crassus				•x			▪	•x				•x	•x	▪		•		•
Systenopora contracta		•		•x	x	•x	•x	•x	•x	x		•x	x			x		
Hippothoidae																		
Celeporella alia									x									
Celeporella antarctica									•									
Hippopodinidae																		
Toretocheilum absidatum								•										
Toretocheilum turbinatum									x									
Catenicellidae																		
Talivitaticella frigida																	•	
Eminoecidae																		
Isoschizoporella similis	•			•				•	•					•				
Isoschizoporella secunda						•												
Isoschizoporella tricuspis						•x												•
Isoschizoporella virgula									•									•
Eminoecia carsonae						•	•		•x			•x				▪		•
Hippopodinidae																		
Dakariella dabrowni		•					•											
Hippoporinidae																		
Kymella polaris	•x	•		•x	x	•	•x	•x	▪				x	▪		•x	•	
Schizoporellidae																		
Buffonellodes antarctica	x						•x		x									
Lacernidae																		
Lacerna watersi		•	•	•x	x	•x	•x		•x							•x	•	•
Lacerna hosteensis	•																	
Smittinidae																		
Aimulosia australis									•									
Smittina alticollarita						•	•		▪	x								
Smittina anecdota					x	•	•											
Smittina antarctica	•	•		•x	x	•x	•x	•	•	x		•x	•x	•		•	▪	•
Smittina excertaviculata						•x	•x		x					▪		▪		
Smittina directa	•							•	•			•						
Smittina incernicula			•			•	•	•								•		
Smittina obicullata						•	•											
Smittina glebula						•	•											
Smittina rogickae					x	•			x							x		•
Smittoidea conspicua						•		•										
Smittoidea albula	x					•	•	•	•				x	•		•		
Smittoidea malleata		•					•x	x	•x				x			x		
Thrypticocirrus contortuplicata		▪					•		x							•		•
Thrypticocirrus phylactelloides	x			x	x		x		▪	x		x	x					
Thrypticocirrus rogickae					x		x	x	x	x		x	x					
Pemmatoporella marginata						•		•	•x	x		•x				x		
Bostrychopora dentata		•		x	x		•x					x				x		
Rhamphosmittina bassleri	x	•					•x		x				x			•		
Aspericreta favulosa																		
Microporellidae																		
Adelascopora jeqolqa	•							•										
Adelascopora secunda								x		x								
Microporella stenoporta													x					
Fenestrulina antarctica																		
Fenestrulina cervicornis						•x												
Fenestrulina proxima																		
Celleporidae																		
Osthimosia claviformis						•	•						•	•				
Osthimosia clavata								▪					•					
Osthimosia bicornis	•					•				•						•		
Osthimosia fusticula																		•

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Cellarinella dubia																	
Cellarinella rossi																	
Cellarinella virgula															•		
Cellarinella terminata		•								•							
Cellarinelloides crassus		•			•x					•							
Systenopora contracta		•			•x												
Hippothoidae																	
Celeporella alia																	
Celeporella antarctica																	
Hippopodinidae																	
Toretocheilum absidatum																	
Toretocheilum turbinatum																	
Catenicellidae																	
Talivitaticella frigida																	
Eminooecidae																	
Isoschizoporella similis		•															•
Isoschizoporella secunda					•												
Isoschizoporella tricuspis					•												
Isoschizoporella virgula														•	•		
Eminooecia carsonae					•												
Hippopodinidae																	
Dakariella dabrowni					•					•							
Hippoporinidae																	
Kymella polaris		•			•									•	•		
Schizoporellidae																	
Buffonellodes antarctica					•												
Lacernidae																	
Lacerna watersi					•x					•				•			
Lacerna hosteensis																	
Smittinidae																	
Aimulosia australis																	
Smittina alticollarita																	
Smittina anecdota					•					•							
Smittina antarctica		•			•					•							
Smittina excertaviculata					•												
Smittina directa		•															
Smittina incernicula										•							
Smittina obicullata																	
Smittina glebula					•												
Smittina rogickae										•							
Smittoidea conspicua																	
Smittoidea albula					•					•							
Smittoidea malleata					•												
Thrypticocirrus contortuplicata																	
Thrypticocirrus phylactelloides																	
Thrypticocirrus rogickae		•															
Pemmatoporella marginata					•					•							
Bostrychopora dentata		•															
Rhamphosmittina bassleri					•					•							
Aspericreta favulosa					•												
Microporellidae																	
Adelascopora jeqolqa															•		
Adelascopora secunda																	
Microporella stenoporta					•									•			
Fenestrulina antarctica					•												
Fenestrulina cervicornis					•					•							
Fenestrulina proxima					x												
Celleporidae																	
Osthimosia claviformis																	
Osthimosia clavata					•										•		
Osthimosia bicornis					•										•		
Osthimosia fusticula																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Cellarinella dubia												
Cellarinella rossi												
Cellarinella virgula												
Cellarinella terminata												
Cellarinelloides crassus	•x				•							
Systenopora contracta			x		•							
Hippothoidae												
Celeporella alia												
Celeporella antarctica					•							
Hippopodinidae												
Toretocheilum absidatum												
Toretocheilum turbinatum												
Catenicellidae												
Talivitaticella frigida												
Eminooecidae												
Isoschizoporella similis												
Isoschizoporella secunda						•						
Isoschizoporella tricuspis	x	•x	x			x						
Isoschizoporella virgula												
Eminooecia carsonae												
Hippopodinidae												
Dakarlella dabrowni												
Hippoporinidae												
Kymella polaris		•x	x				•					
Schizoporellidae												
Buffonellodes antarctica												
Lacernidae												
Lacerna watersi					•							
Lacerna hosteensis												
Smittinidae												
Aimulosia australis												
Smittina alticollarita												
Smittina anecdota												
Smittina antarctica	x	•x	•x		•x							
Smittina excertaviculata					x							
Smittina directa					•		•					
Smittina incernicula							•					
Smittina obicullata												
Smittina glebula												
Smittina rogickae		•										
Smittoidea conspicua					•							
Smittoidea albula					•							
Smittoidea malleata		•x			x							
Thrypticocirrus contortuplicata		•			•x							
Thrypticocirrus phylactelloides	x	•x	x	x								
Thrypticocirrus rogickae		x										
Pemmatoporella marginata	x	x										
Bostrychopora dentata					•x							
Rhamphosmittina bassleri	•x				•							
Aspericreta favulosa												
Microporellidae												
Adelascopora jeqolqa												
Adelascopora secunda												
Microporella stenoporta												
Fenestrulina antarctica												
Fenestrulina cervicornis												
Fenestrulina proxima												
Celleporidae												
Osthimosia claviformis												
Osthimosia clavata					•							
Osthimosia bicornis					•							
Osthimosia fusticula												

det. _____

161	*Osthimosia mariae*	Hayward, 1992	•GON
162	*Osthimosia rudicula*	Hayward, 1992	•GON, **x**ZAB
163	*Osthimosia milleporoides*	(Calvet, 1909)	•GON
164	*Osthimosia notialis*	Hayward, 1992	•GON
165	*Osthimosia curtioscula*	Hayward, 1992	•GON
166	*Spigaleos horneroides*	(Waters, 1904)	•GON, **x**ZAB
	Phidoloporidae		
167	*Reteporella hippocrepis*	(Waters, 1904)	•GON, **x**ZAB
168	*Reteporella antarctica*	(Waters, 1904)	•GON, **x**ZAB
169	*Reteporella erugata*	Hayward, 1993	•GON, **x**ZAB
170	*Reteporella frigida*	(Waters, 1904)	•GON, **x**ZAB
171	*Reteporella gelida*	(Waters, 1904)	•GON, **x**ZAB
172	*Reteporella longichila*	Hayward, 1993	•GON, **x**ZAB
173	*Reteporella lepralioides*	(Waters, 1904)	•GON, **x**ZAB
174	*Reteporella protecta*	(Waters, 1904)	•GON
175	*Reteporella parva*	Hayward, 1993	•GON
176	*Reteporella saturninoi*		**x**ZAB
	Lekythoporidae		
177	*Turritigera cribrata*	Hayward, 1992	•GON
178	*Orthoporidra compacta*	(Waters, 1904)	•GON, **x**ZAB
179	*Orthoporidra brachyrhyncha*	Moyano, 1985	•GON, **x**ZAB
180	*Orthoporidra stenoryncha*	Moyano, 1985	•GON
	Cyclostomata		
	Idmidronea		
181	*Idmidronea* cf. *coerulea*	Harmelin, 1976	**x**ZAB
	Horneridae		
182	*Homera* cf. *lichenoides*	(L., 1758)	**x**ZAB
	Fasciculiporidae		
183	*Fasciculipora ramosa*	D'Orbigny, 1846	•GON
184	*Infundibulipora lucernaria*	(Sars, 1851)	•GON
	BRACHIOPODA		
	Craniacea		
	Craniidae		
1	*Neocrania lecointei*	(Joubini, 1901)	ZEZ
	Rhynchonellida		
	Frieleiidae		
2	*Compsothyris racovitzae*	(Joubini, 1901)	ZEZ
	Terebratulida		
	Terebratulidae		
3	*Abyssothyris wyvillei*	(Davidson, 1878)	ZEZ
4	*Liothyrella antarctica*	(Blochmann, 1906)	ZEZ
	Terebratellidae		
5	*Aerothyris joubini*	(Blochmann, 1906)	ZEZ
6	*Aerothyris fragilis*	(Smith, 1907)	ZEZ
	MOLLUSCA		
	POLYPLACOPHORA		
	Chitonida		
	Ischnochitonicae		
1	*Stenosemus simplicissimus*	(Thiele, 1906)	SIR
	Callochitonidae		
2	*Callochiton gaussi*	(Thiele, 1908)	SIR
	Mopalidae		
3	*Nuttallochiton mirandus*	(Thiele, 1906)	SIR
	GASTROPODA		
	Prosobranchia		
	Patelliformes = Docoglossa		
	Propilidiidae		
1	*Propilidium pelseneeri*	Thiele, 1912	EGO
	Lepetidae		
2	*Iothia coppingeri*	(Smith, 1881)	EGO

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Osthimosia mariae						•	•									•		•
Osthimosia rudicula						•x			•	•								
Osthimosia milleporoides						•	•		•			•	•			•		
Osthimosia notialis							•		•								•	•
Osthimosia curtioscula																		
Spigaleos homeroides											•						•	
Phidoloporidae																		
Reteporella hippocrepis	•x	•		•x		•	x	•x	•x	•x		•x	•x	•		•	•	•
Reteporella antarctica	•				x	•	x	•	•			•	x				•	
Reteporella erugata	x																	
Reteporella frigida						•		x	x	•			x				•	•
Reteporella gelida	x			x		•		x	•	x		•x	x				•	•
Reteporella longichila	•x							x		x		x						
Reteporella lepralioides	•x	•		•		•	•	•		x						•	•	•
Reteporella protecta	•						•					•	•				•	
Reteporella parva												•				•		
Reteporella saturninoi							x											
Lekythoporidae																		
Turritigera cribrata				•			•	•	•									•
Orthoporidra compacta	•x				x	•x	•		x	x		•x				•x	•	•
Orthoporidra brachyrhyncha				•	x	•										•		•
Orthoporidra stenoryncha		•		•		•	•					•					•	•
Cyclostomata																		
Idmidronea																		
Idmidronea cf. *coerulea*					x	x	x	x				x						
Homeridae																		
Homera cf. *lichenoides*	x				x	x	x		x			x	x					
Fasciculiporidae																		
Fasciculipora ramosa		•		•					•			•	•					
Infundibulipora lucernaria				•														
BRACHIOPODA																		
Craniacea																		
Craniidae																		
Neocrania lecointei												•						
Rhynchonellida																		
Frielelidae																		
Compsothyris racovitzae																		
Terebratulida																		
Terebratulidae																		
Abyssothyris wyvillei																		
Liothyrella antarctica	•			•	•		•			•			•			•	•	
Terebratellidae																		
Aerothyris joubini	•				•	•	•		•	•				•		•	•	
Aerothyris fragilis	•			•		•												
MOLLUSCA																		
POLYPLACOPHORA																		
Chitonida																		
Ischnochitonicae																		
Stenosemus simplicissimus	•																	
Callochitonidae																		
Callochiton gaussi	•	•	•	•	•	•	•		•							•	•	
Mopalidae																		
Nuttallochiton mirandus	•	•	•	•	•	•	•		•									
GASTROPODA																		
Prosobranchia																		
Patelliformes = Docoglossa																		
Propilidiidae																		
Propilidium pelseneeri																		
Lepetidae																		
Iothia coppingeri					•		•					•	•			•		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Osthimosia mariae										•							
Osthimosia rudicula																	
Osthimosia milleporoides					•					•							
Osthimosia notialis					•									•			
Osthimosia curtioscula															•		
Spigaleos homeroides					x												
Phidoloporidae																	
Reteporella hippocrepis					•x					•							
Reteporella antarctica					x												
Reteporella erugata					x												
Reteporella frigida					•					•							
Reteporella gelida					x												
Reteporella longichila					x												
Reteporella lepralioides		•			•					•				•			
Reteporella protecta														•			
Reteporella parva																	
Reteporella saturninoi																	
Lekythoporidae																	
Turritigera cribrata		•															
Orthoporidra compacta					•x					•					•		
Orthoporidra brachyrhyncha		•			•					•							
Orthoporidra stenoryncha					•					•							
Cyclostomata																	
Idmidronea																	
Idmidronea cf. *coerulea*					x												
Homeridae																	
Homera cf. *lichenoides*					x												
Fasciculiporidae		•															
Fasciculipora ramosa																	
Infundibulipora lucernaria																	
BRACHIOPODA																	
Craniacea																	
Craniidae																	
Neocrania lecointei																	
Rhynchonellida																	
Frielelidae																	
Compsothyris racovitzae			•														
Terebratulida																	
Terebratulidae																	
Abyssothyris wyvillei																	
Liothyrella antarctica	•				•				•								
Terebratellidae																	
Aerothyris joubini	•				•								•				
Aerothyris fragilis																	
MOLLUSCA																	
POLYPLACOPHORA																	
Chitonida																	
Ischnochitonicae																	
Stenosemus simplicissimus																	
Callochitonidae																	
Callochiton gaussi	•																
Mopaliidae																	
Nuttallochiton mirandus	•																
GASTROPODA																	
Prosobranchia																	
Patelliformes = Docoglossa																	
Propilidiidae																	
Propilidium pelseneeri			•														
Lepetidae																	
Iothia coppingeri	•				•					•							

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Osthimosia mariae												
Osthimosia rudicula												
Osthimosia milleporoides												
Osthimosia notialis		•			•		•					
Osthimosia curtioscula												
Spigaleos horneroides												x
Phidoloporidae												
Reteporella hippocrepis		x			•							
Reteporella antarctica		•										
Reteporella erugata	•			x								
Reteporella frigida		x			•							
Reteporella gelida		x		x	•	x						
Reteporella longichila												
Reteporella lepralioides		•			•							
Reteporella protecta												
Reteporella parva												
Reteporella saturninoi												
Lekythoporidae												
Turritigera cribrata												
Orthoporidra compacta	•x	•			•	x						
Orthoporidra brachyrhyncha					•							
Orthoporidra stenoryncha												
Cyclostomata												
Idmidronea												
Idmidronea cf. *coerulea*			x		x							
Homeridae												
Homera cf. *lichenoides*		x	x	x	x							
Fasciculiporidae												
Fasciculipora ramosa	•											
Infundibulipora lucernaria												
BRACHIOPODA												
Craniacea												
Cranilidae												
Neocrania lecointei												
Rhynchonellida												
Frieleilidae												
Compsothyris racovitzae												•
Terebratulida												
Terebratulidae												
Abyssothyris wyvillei												•
Liothyrella antarctica		•	•		•	•	•					
Terebratellidae												
Aerothyris joubini		•	•		•		•					
Aerothyris fragilis		•										
MOLLUSCA												
POLYPLACOPHORA												
Chitonida												
Ischnochitonicae												
Stenosemus simplicissimus												
Callochitonidae												
Callochiton gaussi	•	•			•	•	•					
Mopaliidae												
Nuttallochiton mirandus		•	•	•	•	•	•					
GASTROPODA												
Prosobranchia												
Patelliformes = Docoglossa												
Propilidiidae												
Propilidium pelseneeri												
Lepetidae												
Iothia coppingeri												

det. _____

	Dicranobranchia		
	Fissurellidae		
3	*Parmaphorella mawsoni*	(Powell, 1958)	EGO
4	*Puncturella spirigera*	Thiele, 1912	EGO
	Fissobranchia		
	Scissurellidae		
5	*Anatoma amoena*	(Thiele, 1912)	EGO
6	*Anatoma euglypta*	(Pelseneer, 1903)	EGO
	Trochiformes = Anisobranchia		
	Turbinidae		
7	*Leptocollonia innocens*	(Thiele, 1912)	EGO
	Cyclostrematidae		
8	*Cirsonella extrema*	Thiele, 1912	EGO
9	*Tharsiella* cf. *globosa*	(Pelseneer, 1903)	EGO
10	*Lissotesta* cf. *liratula*	(Pelseneer, 1903)	EGO
11	*Lissotesta mammillata*	(Thiele, 1912)	EGO
12	*Lissotesta minutissima*	(Smith, 1907)	EGO
13	*Lissotesta strebeli*	(Thiele, 1912)	EGO
	Trochidae		
14	*Margarites refulgens*	(Smith, 1907)	EGO
15	*Margarites biconica*	Numanami, 1996	EGO
16	*Calliotropis (C.) pelseneeri pelseneeri*	Cernohorsky, 1977	EGO
17	*Submargarita unifilosa*	Thiele, 1912	EGO
18	*Falsimargarita gemma*	(Smith, 1915)	EGO
19	*Antimargarita thielei*	(Hedley, 1916)	EGO
20	*Solariella antarctica* (* = *S.* cf. *antarctica*)	Powell, 1958	EGO
21	*Solariella anarensis*	Dell, 1972	EGO
22	*Intortia homocostata*	Egorova, 1972	EGO
	Seguenziidae		
23	*Seguenzia antarctica*	Thiele, 1925	EGO
	Turritelliformes = Protopoda		
	Turritellidae		
24	*Turritellopsis gratissima*	Thiele, 1912	EGO
	Littoriniformes = Discopoda		
	Zerotulidae		
25	*Frovina soror*	Thiele, 1912	EGO
26	*Frovina indecora*	(Thiele, 1912)	EGO
27	*Trilirata macmurdensis*	(Hedley, 1911)	EGO
28	*Trilirata sexcarinata*	Waren and Hain, 1996	EGO
29	*Dickdellia labioflecta*	(Dell, 1990)	EGO
30	*Zerotula incognita*	Waren and Hain, 1996	EGO
	Littorinidae		
31	*Laevilittorina (Pellilacunella) bennetti*	(Preston, 1916)	EGO
	Rissoidae		
32	*Onoba gelida*	(Smith, 1907)	EGO
33	*Onoba delecta*	Ponder, 1983	EGO
34	*Onoba turqueti*	(Lamy, 1905)	EGO
35	*Onoba (Ovirissoa) kergueleni*	(Smith, 1875)	EGO
36	*Powellisetia deserta*	(Smith, 1907)	EGO
37	*Powellisetia pelseneeri*	(Thiele, 1912)	EGO
38	*Subonoba ovata*	(Thiele, 1912)	EGO
	Cingulopsidae = Skeneopsidae		
39	*Skenella (Skenella) umbilicata*	Ponder, 1983	EGO
	Eatoniellidae		
40	*Eatoniella glacialis*	(Smith, 1907)	EGO
41	*Eatoniella caliginosa*	(Smith, 1875)	EGO
42	*Eatoniella cana*	Ponder, 1983	EGO
43	*Eatoniella kerguelenensis kerguelenensis*	(Smith, 1875)	EGO
43	*Eatoniella kerguelenensis regularis*	(Smith, 1915)	EGO
44	*Eatoniella* cf. *varicifira*	Ponder, 1983	EGO
	Trachysmatidae		
45	*Trachysma ignobile*	Thiele, 1912	EGO

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Dicranobranchia																		
Fissurellidae																		
Parmaphorella mawsoni		•		•	•	•	•									•		
Puncturella spirigera																		
Fissobranchia																		
Scissurellidae																		
Anatoma amoena									•									
Anatoma euglypta						•						•	•			•		
Trochiformes = Anisobranchia																		
Turbinidae																		
Leptocollonia innocens						•	•										•	
Cyclostrematidae																		
Cirsonella extrema						•												
Tharsiella cf. *globosa*																•		
Lissotesta cf. *liratula*							•											
Lissotesta mammillata						•	•											
Lissotesta minutissima						•	•											
Lissotesta strebeli						•												
Trochidae																		
Margarites refulgens	•	•		•	•	•	•									•		
Margarites biconica	•			•	•													
Calliotropis (C.) pelseneeri pelseneeri				•														
Submargarita unifilosa		•				•												
Falsimargarita gemma												•						
Antimargarita thielei						•							•				•	
Solariella antarctica (* = *S.* cf. *antarctica*)						•								•				
Solariella anarensis														•				
Intortia homocostata																		
Seguenziidae																		
Seguenzia antarctica																		
Turritelliformes = Protopoda																		
Turritellidae																		
Turritellopsis gratissima																	•	
Littoriniformes = Discopoda																		
Zerotulidae																		
Frovina soror						•												
Frovina indecora																		
Trilirata macmurdensis						•	•						•					
Trilirata sexcarinata			•	•														
Dickdellia labioflecta	•			•														
Zerotula incognita																		
Littorinidae																		
Laevilittorina (Pellilacunella) bennetti						•												
Rissoidae																		
Onoba gelida						•			•			•				•		
Onoba delecta							•											
Onoba turqueti									•									
Onoba (Ovirissoa) kergueleni																		
Powellisetia deserta						•										•		
Powellisetia pelseneeri						•						•						
Subonoba ovata						•						•						
Cingulopsidae = Skeneopsidae																		
Skenella (Skenella) umbilicata							•											
Eatoniellidae																		
Eatoniella glacialis						•										•		
Eatoniella caliginosa									•									
Eatoniella cana						•												
Eatoniella kerguelenensis kerguelenensis						•												
Eatoniella kerguelenensis regularis							•		•									
Eatoniella cf. *varicifira*						•												
Trachysmatidae																		
Trachysma ignobile																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area							Kapp Norvegia area										
Dicranobranchia																	
Fissurellidae																	
Parmaphorella mawsoni										•							
Puncturella spirigera					•												
Fissobranchia																	
Scissurellidae																	
Anatoma amoena																	
Anatoma euglypta			•						•				•				
Trochiformes = Anisobranchia																	
Turbinidae																	
Leptocollonia innocens	•								•	•							
Cyclostrematidae																	
Cirsonella extrema										•							
Tharsiella cf. *globosa*																	
Lissotesta cf. *liratula*									•								
Lissotesta mammillata									•								
Lissotesta minutissima									•	•							
Lissotesta strebeli									•								
Trochidae																	
Margarites refulgens	•								•	•			•				
Margarites biconica										•							
Calliotropis (C.) pelseneeri pelseneeri																	
Submargarita unifilosa																	
Falsimargarita gemma																	
Antimargarita thielei																	
Solariella antarctica (* = *S.* cf. *antarctica*)									•*								
Solariella anarensis																	
Intortia homocostata	•																
Seguenzidae																	
Seguenzia antarctica			•														
Turritelliformes = Protopoda																	
Turritellidae																	
Turritellopsis gratissima																	
Littoriniformes = Discopoda																	
Zerotulidae																	
Frovina soror																	
Frovina indecora	•									•							
Trilirata macmurdensis	•								•	•			•				
Trilirata sexcarinata									•								
Dickdellia labioflecta																	
Zerotula incognita									•								
Littorinidae																	
Laevilittorina (Pellilacunella) bennetti																	
Rissoidae																	
Onoba gelida																	
Onoba delecta																	
Onoba turqueti																	
Onoba (Ovirissoa) kergueleni										•							
Powellisetia deserta										•							
Powellisetia pelseneeri																	
Subonoba ovata																	
Cingulopsidae = Skeneopsidae																	
Skenella (Skenella) umbilicata																	
Eatonielidae																	
Eatoniella glacialis																	
Eatoniella caliginosa																	
Eatoniella cana																	
Eatoniella kerguelenensis kerguelenensis																	
Eatoniella kerguelenensis regularis																	
Eatoniella cf. *varicifira*																	
Trachysmatidae																	
Trachysma ignobile	•																

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Dicranobranchia												
Fissurellidae												
Parmaphorella mawsoni		•			•	•	•					
Puncturella spirigera												
Fissobranchia												
Scissurellidae												
Anatoma amoena												
Anatoma euglypta				•								
Trochiformes = Anisobranchia												
Turbinidae												
Leptocollonia innocens												
Cyclostrematidae												
Cirsonella extrema												
Tharsiella cf. *globosa*												
Lissotesta cf. *liratula*												
Lissotesta mammillata												
Lissotesta minutissima												
Lissotesta strebeli												
Trochidae												
Margarites refulgens	•											
Margarites biconica												
Calliotropis (C.) pelseneeri pelseneeri												
Submargarita unifilosa												
Falsimargarita gemma					•							
Antimargarita thielei						•						
Solariella antarctica (* = *S.* cf. *antarctica*)												
Solariella anarensis												
Intortia homocostata												
Seguenziidae												
Seguenzia antarctica												
Turritelliformes = Protopoda												
Turritellidae												
Turritellopsis gratissima												
Littoriniformes = Discopoda												
Zerotulidae												
Frovina soror												
Frovina indecora												
Trilirata macmurdensis												
Trilirata sexcarinata												
Dickdellia labioflecta	•		•		•		•					
Zerotula incognita												
Littorinidae												
Laevilittorina (Pellilacunella) bennetti												
Rissoidae												
Onoba gelida												
Onoba delecta												
Onoba turqueti												
Onoba (Ovirissoa) kergueleni												
Powellisetia deserta												
Powellisetia pelseneeri												
Subonoba ovata												
Cingulopsidae = Skeneopsidae												
Skenella (Skenella) umbilicata												
Eatoniellidae												
Eatoniella glacialis												
Eatoniella caliginosa												
Eatoniella cana												
Eatoniella kerguelenensis kerguelenensis												
Eatoniella kerguelenensis regularis												
Eatoniella cf. *varicifira*												
Trachysmatidae												
Trachysma ignobile												

			det.
46	*Trachysma tenue*	Thiele, 1912	EGO
	Calyptraeiformes = Echinospirida		
	Trichotropidae		
47	*Torellia mirabilis*	(Smith, 1907)	EGO
48	*Torellia exilis*	(Powell, 1958)	EGO
49	*Torellia (Neoconcha) antarctica*	(Thiele, 1912)	EGO
50	*Torellia (Neoconcha) insignis*	(Smith, 1915)	EGO
51	*Torellia (Neoconcha) smithi*	(Waren, Arnaud and Cantera, 1986)	EGO
52	*Capulus subcompressus*	Pelseneer, 1903	EGO
	Lamellariidae		
53	*Marseniopsis mollis*	(Smith, 1902)	EGO
54	*Marseniopsis conica*	(Smith, 1902)	EGO
55	*Marseniopsis* cf. *pacifica*	Bergh, 1886	EGO
	Naticiformes = Aspidophora		
	Naticidae		
56	*Amauropsis bransfieldensis*	(Preston, 1916)	EGO
57	*Amauropsis godfroyi*	(Lamy, 1910)	EGO
58	*Amauropsis rossiana*	Smith, 1907	EGO
59	*Amauropsis subpallescens*	(Strebel, 1908)	EGO
60	*Kerguelenatica bioperculata*	Dell, 1990	EGO
61	*Falsilunatia delicatula*	(Smith, 1902)	EGO
62	*Falsilunatia falklandica*	(Preston, 1913)	EGO
63	*Falsilunatia* cf. *notorcadensis*	Dell, 1990	EGO
64	*Falsilunatia soluta*	(Gould, 1848)	EGO
65	*Falsilunatia xantha*	(Watson, 1881)	EGO
66	*Sinuber microstriatum*	Dell, 1990	EGO
67	*Sinuber sculptum sculptum*	(Martens, 1878)	EGO
	Cerithiiformes = Entomostoma		
	Cerithiidae		
68	*Cerithiella erecta* (* = *C.* cf. *erecta*)	Thiele, 1912	EGO
69	*Cerithiella eulimella*	Powell, 1958	EGO
70	*Cerithiella lineata*	Egorova, 1982	EGO
71	*Cerithiella similis*	Thiele, 1912	EGO
72	*Cerithiella superba*	Thiele, 1912	EGO
	Cerithiopsidae		
73	*Cerithiopsilla antarctica*	(Smith, 1907)	EGO
74	*Cerithiopsilla austrina*	(Hedley, 1911)	EGO
75	*Cerithiopsilla charcoti*	(Lamy, 1906)	EGO
76	*Cerithiopsilla cincta*	Thiele, 1912	EGO
77	*Cerithiopsilla gaussiana*	Egorova, 1972	EGO
78	*Cerithiopsilla liouvillei*	(Lamy, 1910)	EGO
	Eumetulidae		
79	*Eumetula dilecta*	Thiele, 1912	EGO
80	*Eumetula strebeli strebeli*	(Thiele, 1912)	EGO
80	*Eumetula* cf. *strebeli laevis*	(Thiele, 1912)	EGO
	Hamiglossa		
	Triphoridae		
81	*Triphora delicatula*	(Thiele, 1912)	EGO
	Cominellidae		
82	*Pareuthria innocens*	(Smith, 1907)	EGO
83	*Pareuthria plicatula*	Thiele, 1912	EGO
84	*Falsimohnia albozonata*	(Watson, 1886)	EGO
85	*Antarctodomus thielei* (* = *A.* cf. *thielei*)	Powell, 1958	EGO
	Buccinidae		
86	*Chlanidota lamyi*	(Dell, 1990)	EGO
87	*Chlanidota signeyana*	Powell, 1951	EGO
88	*Neobuccinum eatoni*	(Smith, 1875)	EGO
89	*Notoficula bouveti*	(Thiele, 1912)	EGO
90	*Notoficula signeyensis*	Oliver, 1982	EGO
91	*Probuccinum angulatum*	Powell, 1951	EGO
92	*Probuccinum costatum*	Thiele, 1912	EGO
93	*Probuccinum* cf. *regulus*	(Watson, 1882)	EGO

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Trachysma tenue																		
Calyptraeiformes = Echinospirida																		
Trichotropidae																		
Torellia mirabilis	•	•	•	•		•							•					
Torellia exilis						•												
Torellia (Neoconcha) antarctica																		
Torellia (Neoconcha) insignis	•			•													•	
Torellia (Neoconcha) smithi				•		•								•				
Capulus subcompressus						•												
Lamellariidae																		
Marseniopsis mollis	•	•											•					
Marseniopsis conica					•	•	•							•				
Marseniopsis cf. *pacifica*					•	•												
Naticiformes = Aspidophora																		
Naticidae																		
Amauropsis bransfieldensis							•											
Amauropsis godfroyi																		
Amauropsis rossiana						•								•				
Amauropsis subpallescens																		
Kerguelenatica bioperculata									•									
Falsilunatia delicatula						•						•						
Falsilunatia falklandica						•			•									
Falsilunatia cf. *notorcadensis*										•								
Falsilunatia soluta									•									
Falsilunatia xantha									•									
Sinuber microstriatum									•									
Sinuber sculptum sculptum		•					•					•	•	•		•		
Cerithiiformes = Entomostoma																		
Cerithiidae																		
Cerithiella erecta (* = *C.* cf. *erecta*)						•	•									•		
Cerithiella eulimella		•				•										•		
Cerithiella lineata						•												
Cerithiella similis						•												
Cerithiella superba						•	•											
Cerithiopsidae																		
Cerithiopsilla antarctica						•			•									
Cerithiopsilla austrina						•												
Cerithiopsilla charcoti																		
Cerithiopsilla cincta																•		
Cerithiopsilla gaussiana							•											
Cerithiopsilla liouvillei																		
Eumetulidae																		
Eumetula dilecta																		
Eumetula strebeli strebeli						•								•		•		
Eumetula cf. *strebeli laevis*						•												
Hamiglossa																		
Triphoridae																		
Triphora delicatula						•	•											
Cominellidae																		
Pareuthria innocens						•	•											
Pareuthria plicatula						•										•		
Falsimohnia albozonata						•												
Antarctodomus thielei (* = *A.* cf. *thielei*)																		
Buccinidae																		
Chlanidota lamyi		•																
Chlanidota signeyana																		
Neobuccinum eatoni	•	•																
Notoficula bouveti	•															•		
Notoficula signeyensis		•																
Probuccinum angulatum	•					•	•										•	
Probuccinum costatum						•												
Probuccinum cf. *regulus*																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Trachysma tenue	•																
Calyptraeiformes = Echinospirida																	
Trichotropidae																	
Torellia mirabilis																	
Torellia exilis																	
Torellia (Neoconcha) antarctica	•																
Torellia (Neoconcha) insignis																	
Torellia (Neoconcha) smithi																	
Capulus subcompressus	•								•	•			•				
Lamellariidae																	
Marseniopsis mollis																	
Marseniopsis conica																	
Marseniopsis cf. *pacifica*	•																
Naticiformes = Aspidophora																	
Naticidae																	
Amauropsis bransfieldensis																	
Amauropsis godfroyi																	
Amauropsis rossiana	•																
Amauropsis subpallescens									•								
Kerguelenatica bioperculata																	
Falsilunatia delicatula	•									•			•				
Falsilunatia falklandica																	
Falsilunatia cf. *notorcadensis*																	
Falsilunatia soluta																	
Falsilunatia xantha																	
Sinuber microstriatum																	
Sinuber sculptum sculptum									•								
Cerithiiformes = Entomostoma																	
Cerithiidae																	
Cerithiella erecta (* = *C.* cf. *erecta*)									•	•			•				
Cerithiella eulimella									•	•			•				
Cerithiella lineata									•								
Cerithiella similis																	
Cerithiella superba										•							
Cerithiopsidae																	
Cerithiopsilla antarctica									•								
Cerithiopsilla austrina									•								
Cerithiopsilla charcoti										•							
Cerithiopsilla cincta									•								
Cerithiopsilla gaussiana																	
Cerithiopsilla liouvillei	•																
Eumetulidae																	
Eumetula dilecta									•	•							
Eumetula strebeli strebeli									•	•							
Eumetula cf. *strebeli laevis*													•				
Hamiglossa																	
Triphoridae																	
Triphora delicatula									•								
Cominellidae																	
Pareuthria innocens										•			•				
Pareuthria plicatula										•			•				
Falsimohnia albozonata									•				•				
Antarctodomus thielei (* = *A.* cf. *thielei*)					•												
Buccinidae																	
Chlanidota lamyi																	
Chlanidota signeyana																	
Neobuccinum eatoni										•							
Notoficula bouveti					•												
Notoficula signeyensis																	
Probuccinum angulatum	•				•												
Probuccinum costatum																	
Probuccinum cf. *regulus*																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Trachysma tenue												
Calyptraeiformes = Echinospirida												
Trichotropidae												
Torellia mirabilis	•		•		•	•						
Torellia exilis												
Torellia (Neoconcha) antarctica							•					
Torellia (Neoconcha) insignis												
Torellia (Neoconcha) smithi	•		•			•						
Capulus subcompressus	•											
Lamellariidae												
Marseniopsis mollis	•											
Marseniopsis conica												
Marseniopsis cf. *pacifica*												
Naticiformes = Aspidophora												
Naticidae												
Amauropsis bransfieldensis												
Amauropsis godfroyi			•									
Amauropsis rossiana			•									
Amauropsis subpallescens												
Kerguelenatica bioperculata			•		•							
Falsilunatia delicatula												
Falsilunatia falklandica												
Falsilunatia cf. *notorcadensis*												
Falsilunatia soluta												
Falsilunatia xantha					•		•					
Sinuber microstriatum												
Sinuber sculptum sculptum												
Cerithiiformes = Entomostoma												
Cerithiidae												
Cerithiella erecta (* = *C.* cf. *erecta*)		•*										
Cerithiella eulimella												
Cerithiella lineata												
Cerithiella similis												
Cerithiella superba												
Cerithiopsidae												
Cerithiopsilla antarctica	•											
Cerithiopsilla austrina												
Cerithiopsilla charcoti												
Cerithiopsilla cincta												
Cerithiopsilla gaussiana												
Cerithiopsilla liouvillei												
Eumetulidae												
Eumetula dilecta												
Eumetula strebeli strebeli												
Eumetula cf. *strebeli laevis*												
Hamiglossa												
Triphoridae												
Triphora delicatula												
Cominellidae												
Pareuthria innocens												
Pareuthria plicatula												
Falsimohnia albozonata												
Antarctodomus thielei (* = *A.* cf. *thielei*)	•*											
Buccinidae												
Chlanidota lamyi							•					
Chlanidota signeyana			•		•							
Neobuccinum eatoni				•								
Notoficula bouveti												
Notoficula signeyensis												
Probuccinum angulatum												
Probuccinum costatum												
Probuccinum cf. *regulus*							•					

			det.
94	*Probuccinum tenerum*	(Smith, 1907)	EGO
95	*Probuccinum tenuistriatum*	Hedley, 1916	EGO
96	*Prosipho cancellatus*	Smith, 1915	EGO
97	*Prosipho chordatus*	(Strebel, 1908)	EGO
98	*Prosipho congenitus*	(Smith, 1915)	EGO
99	*Prosipho contrarius*	Thiele, 1912	EGO
100	*Prosipho gaussianus*	Thiele, 1912	EGO
101	*Prosipho gracilis*	Thiele, 1912	EGO
102	*Prosipho hedleyi*	Powell, 1958	EGO
103	*Prosipho hunteri*	Hedley, 1916	EGO
104	*Prosipho macleani*	Hedley, 1916	EGO
105	*Prosipho* cf. *mundus*	Smith, 1915	EGO
106	*Prosipho nodosus*	Thiele, 1912	EGO
107	*Prosipho pellitus*	Thiele, 1912	EGO
108	*Prosipho perversus*	Powell, 1951	EGO
109	*Prosipho pusillus*	Thiele, 1912	EGO
110	*Prosipho spiralis*	Thiele, 1912	EGO
111	*Prosipho tuberculatus*	Smith, 1915	EGO
112	*Proneptunea rufa*	Oliver and Picken, 1984	EGO
	Marginellidae		
113	*Marginella ealesae*	Powell, 1958	EGO
114	*Marginella hyalina*	Thiele, 1912	EGO
	Volutidae		
115	*Harpovoluta charcoti*	(Lamy, 1910)	EGO
	Volutomitridae		
116	*Paradmete curta*	Strebel, 1908	EGO
117	*Paradmete fragillima*	(Watson, 1882)	EGO
118	*Paradmete percarinata*	Powell, 1951	EGO
	Muricidae		
119	*Trophon drygalskii*	Thiele, 1912	EGO
120	*Trophon echinolamellatus*	Powell, 1951	EGO
121	*Trophon longstaffi*	Smith, 1907	EGO
122	*Trophon minutus*	Melvill and Standen,1907	EGO
123	*Trophon scotianus*	Powell, 1951	EGO
124	*Trophon shackletoni shackletoni*	Hedley, 1911	EGO
	Coniformes = Toxoglossa		
	Cancellariidae		
125	*Nothoadmete antarctica*	(Strebel, 1908)	EGO
126	*Nothoadmete consobrina*	(Powell, 1958)	EGO
127	*Nothoadmete delicatula*	(Smith, 1907)	EGO
128	*Nothoadmete* cf. *delicatula*	(Smith, 1902)	EGO
129	*Nothoadmete tumida*	Oliver, 1982	EGO
	Turridae		
130	*Aforia magnifica*	(Strebel, 1908)	EGO
131	*Aforia trilix*	Watson, 1881	EGO
132	*Leucosyrinx mawsoni*	Powell, 1958	EGO
133	*Belaturricula antarctica*	Dell, 1990	EGO
134	*Belaturricula turrita multispiralis*	Dell, 1990	EGO
135	*Lorabela* cf. *bathybia*	(Strebel, 1908)	EGO
136	*Lorabela pelseneri*	(Strebel, 1908)	EGO
137	*Lorabela plicatula*	(Thiele, 1912)	EGO
138	*Conorbela antarctica*	(Strebel, 1908)	EGO
139	*Typhlodaphne innocentia*	Dell, 1990	EGO
140	*Pleurotomella (Anomalotomella) annulata*	Thiele, 1912	EGO
141	*Pleurotomella (Anomalotomella) enderbyensis*	Powell, 1958	EGO
142	*Pleurotomella (Anomalotomella) frigida*	(Thiele, 1912)	EGO
143	*Pleurotomella (Anomalotomella) simillima*	Thiele, 1912	EGO
144	*Pontiothauma ergata*	Hedley, 1916	EGO
145	*Typhlomangelia principalis*	Thiele, 1912	EGO
146	cf. *Bela glacialis*	Thiele, 1912	EGO
	Cominellidae		
147	*Pareuthria innocens*	(Smith, 1907)	EGO

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Probuccinum tenerum						•												
Probuccinum tenuistriatum							•											
Prosipho cancellatus																•	•	
Prosipho chordatus						•												
Prosipho congenitus																		
Prosipho contrarius																		
Prosipho gaussianus							•					•					•	
Prosipho gracilis						•												
Prosipho hedleyi						•												
Prosipho hunteri																•		
Prosipho macleani		•																
Prosipho cf. *mundus*		•				•										•		
Prosipho nodosus						•	•		•									
Prosipho pellitus																		
Prosipho perversus						•												
Prosipho pusillus												•					•	
Prosipho spiralis						•										•		
Prosipho tuberculatus																•		
Proneptunea rufa						•												
Marginellidae																		
Marginella ealesae		•					•		•									
Marginella hyalina		•				•										•	•	
Volutidae																		
Harpovoluta charcoti	•	•	•	•	•	•	•					•	•	•		•	•	
Volutomitridae																		
Paradmete curta						•												
Paradmete fragillima							•											
Paradmete percarinata						•												
Muricidae																		
Trophon drygalskii						•										•	•	
Trophon echinolamellatus				•														
Trophon longstaffi									•									
Trophon minutus						•												
Trophon scotianus	•																	
Trophon shackletoni shackletoni									•									
Conformes = Toxoglossa																		
Cancellaridae																		
Nothoadmete antarctica						•						•				•		
Nothoadmete consobrina		•				•	•											
Nothoadmete delicatula						•							•					
Nothoadmete cf. *delicatula*							•									•		
Nothoadmete tumida						•												
Turridae																		
Aforia magnifica		•		•								•						
Aforia trilix												•						
Leucosyrinx mawsoni																		
Belaturricula antarctica																		
Belaturricula turrita multispiralis																		
Lorabela cf. *bathybia*																	•	
Lorabela pelseneri	•			•		•	•					•	•					
Lorabela plicatula									•							•		
Conorbela antarctica																		
Typhlodaphne innocentia							•											
Pleurotomella (Anomalotomella) annulata						•												
Pleurotomella (Anomalotomella) enderbyensis		•																
Pleurotomella (Anomalotomella) frigida						•												
Pleurotomella (Anomalotomella) simillima						•												
Pontiothauma ergata	•		•	•													•	
Typhlomangelia principalis													•					
cf. *Bela glacialis*																•		
Cominellidae																		
Pareuthria innocens						•	•											

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Probuccinum tenerum																	
Probuccinum tenuistriatum																	
Prosipho cancellatus	•									•							
Prosipho chordatus	•																
Prosipho congenitus									•								
Prosipho contrarius										•							
Prosipho gaussianus																	
Prosipho gracilis									•								
Prosipho hedleyi									•								
Prosipho hunteri													•				
Prosipho macleani													•				
Prosipho cf. *mundus*																	
Prosipho nodosus	•								•	•			•				
Prosipho pellitus													•				
Prosipho perversus	•																
Prosipho pusillus																	
Prosipho spiralis										•							
Prosipho tuberculatus										•							
Proneptunea rufa																	
Marginellidae																	
Marginella ealesae																	
Marginella hyalina	•												•				
Volutidae																	
Harpovoluta charcoti																	
Volutomitridae																	
Paradmete curta																	
Paradmete fragillima																	
Paradmete percarinata																	
Muricidae																	
Trophon drygalskii			•		•					•			•				
Trophon echinolamellatus																	
Trophon longstaffi																	
Trophon minutus													•				
Trophon scotianus																	
Trophon shackletoni shackletoni																	
Coniformes = Toxoglossa																	
Cancellariidae																	
Nothoadmete antarctica																	
Nothoadmete consobrina	•																
Nothoadmete delicatula	•								•								
Nothoadmete cf. *delicatula*																	
Nothoadmete tumida																	
Turridae																	
Aforia magnifica																	
Aforia trilix																	
Leucosyrinx mawsoni																	
Belaturricula antarctica																	
Belaturricula turrita multispiralis																	
Lorabela cf. *bathybia*																	
Lorabela pelseneri										•			•				
Lorabela plicatula																	
Conorbela antarctica																	
Typhlodaphne innocentia																	
Pleurotomella (Anomalotomella) annulata																	
Pleurotomella (Anomalotomella) enderbyensis																	
Pleurotomella (Anomalotomella) frigida																	
Pleurotomella (Anomalotomella) simillima																	
Pontiothauma ergata																	
Typhlomangelia principalis					•												
cf. *Bela glacialis*																	
Cominellidae																	
Pareuthria innocens										•			•				

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Probuccinum tenerum												
Probuccinum tenuistriatum												
Prosipho cancellatus												
Prosipho chordatus												
Prosipho congenitus												
Prosipho contrarius												
Prosipho gaussianus												
Prosipho gracilis												
Prosipho hedleyi												
Prosipho hunteri												
Prosipho macleani												
Prosipho cf. *mundus*												
Prosipho nodosus												
Prosipho pellitus												
Prosipho perversus												
Prosipho pusillus												
Prosipho spiralis												
Prosipho tuberculatus												
Proneptunea rufa												
Marginellidae												
Marginella ealesae			•									
Marginella hyalina												
Volutidae												
Harpovoluta charcoti		•	•	•	•	•						
Volutomitridae												
Paradmete curta												
Paradmete fragillima												
Paradmete percarinata												
Muricidae												
Trophon drygalskii												
Trophon echinolamellatus												
Trophon longstaffi					•							
Trophon minutus												
Trophon scotianus			•									
Trophon shackletoni shackletoni												
Coniformes = Toxoglossa												
Cancellariidae												
Nothoadmete antarctica												
Nothoadmete consobrina												
Nothoadmete delicatula												
Nothoadmete cf. *delicatula*												
Nothoadmete tumida												
Turridae												
Aforia magnifica	•		•	•			•					
Aforia trilix												
Leucosyrinx mawsoni					•							
Belaturricula antarctica							•					
Belaturricula turrita multispiralis				•								
Lorabela cf. *bathybia*												
Lorabela pelseneri												
Lorabela plicatula					•							
Conorbela antarctica	•											
Typhlodaphne innocentia												
Pleurotomella (Anomalotomella) annulata												
Pleurotomella (Anomalotomella) enderbyensis												
Pleurotomella (Anomalotomella) frigida												
Pleurotomella (Anomalotomella) simillima												
Pontiothauma ergata	•		•		•							
Typhlomangelia principalis		•										
cf. *Bela glacialis*												
Cominellidae												
Pareuthria innocens												

			del.
148	*Pareuthria plicatula*	Thiele, 1912	EGO
149	*Falsimohnia albozonata*	(Watson, 1886)	EGO
150	*Antarctodomus thielei* (* = *A.* cf. *thielei*)	Powell, 1958	EGO
	Buccinidae		
151	*Chlanidota lamyi*	(Dell, 1990)	EGO
152	*Chlanidota signeyana*	Powell, 1951	EGO
153	*Neobuccinum eatoni*	(Smith, 1875)	EGO
154	*Notoficula bouveti*	(Thiele, 1912)	EGO
155	*Notoficula signeyensis*	Oliver, 1982	EGO
156	*Probuccinum angulatum*	Powell, 1951	EGO
157	*Probuccinum costatum*	Thiele, 1912	EGO
158	*Probuccinum* cf. *regulus*	(Watson, 1882)	EGO
159	*Probuccinum tenerum*	(Smith, 1907)	EGO
160	*Probuccinum tenuistriatum*	Hedley, 1916	EGO
161	*Prosipho cancellatus*	Smith, 1915	EGO
162	*Prosipho chordatus*	(Strebel, 1908)	EGO
163	*Prosipho congenitus*	(Smith, 1915)	EGO
164	*Prosipho contrarius*	Thiele, 1912	EGO
165	*Prosipho gaussianus*	Thiele, 1912	EGO
166	*Prosipho gracilis*	Thiele, 1912	EGO
167	*Prosipho hedleyi*	Powell, 1958	EGO
168	*Prosipho hunteri*	Hedley, 1916	EGO
169	*Prosipho macleani*	Hedley, 1916	EGO
170	*Prosipho* cf. *mundus*	Smith, 1915	EGO
171	*Prosipho nodosus*	Thiele, 1912	EGO
172	*Prosipho pellitus*	Thiele, 1912	EGO
173	*Prosipho perversus*	Powell, 1951	EGO
174	*Prosipho pusillus*	Thiele, 1912	EGO
175	*Prosipho spiralis*	Thiele, 1912	EGO
176	*Prosipho tuberculatus*	Smith, 1915	EGO
177	*Proneptunea rufa*	Oliver and Picken, 1984	EGO
	Heterostropha		
	Trochaclidae		
178	*Trochaclis antarctica*	Thiele, 1912	EGO
	Mellanelliformes = Homoeostropha		
	Eulimidae		
179	*Melanella convexa*	(Smith, 1907)	EGO
180	*Melanella solitaria*	(Smith, 1915)	EGO
181	*Balcis antarctica*	(Strebel, 1908)	EGO
182	*Balcis tumidula*	(Thiele, 1912)	EGO
183	*Hemiaclis incolorata*	(Thiele, 1912)	EGO
	Opisthobranchia		
	Cephalaspidea		
	Cylichnidae		
1	*Cylichna georgiana*	(Strebel, 1908)	CHA
	Philinidae		
2	*Philine gibba*	Strebel, 1908	CHA
3	*Philine kerguelensis*	Thiele, 1925	CHA
	Diaphanidae		
4	*Newnesia antarctica*	Smith, 1902	CHA
5	*Prodiaphana paessleri*	(Strebel, 1905)	CHA
6	*Toledonia major*	(Hedley, 1911)	CHA
7	*Toledonia globosa*	Hedley, 1916	CHA
8	*Toledonia striata*	Thiele, 1912	CHA
9	*Toledonia parelata*	Dell, 1990	CHA
	Pleurobranchida = Notaspidea		
	Pleurobranchidae		
10	*Bathyberthella antarctica*	Willan and Bertsch, 1987	MAR
11	*Tomthompsonia antarctica*	(Thiele, 1912)	MAR
	Nudibranchia		
	Dorididae		
1	*Austrodoris kerguelensis* sensu lato	(Bergh, 1884)	MAR

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Pareuthria plicatula						•										•		
Falsimohnia albozonata						•												
Antarctodomus thielei (* = *A.* cf. *thielei*)																		
Buccinidae																		
Chlanidota lamyi		•																
Chlanidota signeyana																		
Neobuccinum eatoni	•	•																
Notoficula bouveti	•															•		
Notoficula signeyensis		•																
Probuccinum angulatum	•					•	•										•	
Probuccinum costatum						•												
Probuccinum cf. *regulus*																		
Probuccinum tenerum						•												
Probuccinum tenuistriatum							•											
Prosipho cancellatus																•	•	
Prosipho chordatus						•												
Prosipho congenitus																		
Prosipho contrarius																		
Prosipho gaussianus							•					•					•	
Prosipho gracilis						•												
Prosipho hedleyi						•												
Prosipho hunteri																•		
Prosipho macleani		•																
Prosipho cf. *mundus*		•				•										•		
Prosipho nodosus						•	•		•									
Prosipho pellitus																		
Prosipho perversus						•												
Prosipho pusillus												•					•	
Prosipho spiralis						•										•		
Prosipho tuberculatus																•		
Proneptunea rufa						•												
Heterostropha																		
Trochaclidae																		
Trochaclis antarctica						•												
Mellanelliformes = Homoeostropha																		
Eulimidae																		
Melanella convexa		•				•												
Melanella solitaria		•				•										•		
Balcis antarctica						•												
Balcis tumidula						•						•					•	
Hemiaclis incolorata																	•	
Opisthobranchia																		
Cephalaspidea																		
Cylichnidae																		
Cylichna georgiana						•												
Philinidae																		
Philine gibba		•		•	•	•	•		•							•		
Philine kerguelensis																		
Diaphanidae																		
Newnesia antarctica									•									
Prodiaphana paessleri																		
Toledonia major						•			•							•		
Toledonia globosa						•			•									
Toledonia striata						•												
Toledonia parelata																		
Pleurobranchida = Notaspidea																		
Pleurobranchidae																		
Bathyberthella antarctica				•		•												
Tomthompsonia antarctica																	•	
Nudibranchia																		
Dorididae																		
Austrodoris kerguelensis sensu lato		•		•		•	•		•	•		•		•				

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Pareuthria plicatula										•			•				
Falsimohnia albozonata									•				•				
Antarctodomus thielei (* = *A.* cf. *thielei*)					•												
Buccinidae																	
Chlanidota lamyi																	
Chlanidota signeyana																	
Neobuccinum eatoni										•							
Notoficula bouveti					•												
Notoficula signeyensis																	
Probuccinum angulatum	•				•												
Probuccinum costatum																	
Probuccinum cf. *regulus*																	
Probuccinum tenerum																	
Probuccinum tenuistriatum																	
Prosipho cancellatus	•									•							
Prosipho chordatus	•																
Prosipho congenitus									•								
Prosipho contrarius										•							
Prosipho gaussianus																	
Prosipho gracilis									•								
Prosipho hedleyi									•								
Prosipho hunteri													•				
Prosipho macleani													•				
Prosipho cf. *mundus*																	
Prosipho nodosus	•								•	•			•				
Prosipho pellitus													•				
Prosipho perversus	•																
Prosipho pusillus																	
Prosipho spiralis										•							
Prosipho tuberculatus										•							
Proneptunea rufa																	
Heterostropha																	
Trochaclidae																	
Trochaclis antarctica																	
Mellanelliformes = Homoeostropha																	
Eulimidae																	
Melanella convexa																	
Melanella solitaria										•							
Balcis antarctica																	
Balcis tumidula																	
Hemiaclis incolorata																	
Opisthobranchia																	
Cephalaspidea																	
Cylichnidae																	
Cylichna georgiana	•								•	•							
Philinidae																	
Philine gibba	•								•	•							
Philine kerguelensis	•																
Diaphanidae																	
Newnesia antarctica									•	•							
Prodiaphana paessleri	•								•								
Toledonia major	•							•	•	•							
Toledonia globosa	•									•							
Toledonia striata																	
Toledonia parelata						•			•								
Pleurobranchida = Notaspidea																	
Pleurobranchidae																	
Bathyberthella antarctica					•												
Tomthompsonia antarctica																	
Nudibranchia																	
Dorididae																	
Austrodoris kerguelensis sensu lato	•				•												

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Pareuthria plicatula												
Falsimohnia albozonata												
Antarctodomus thielei (* = *A.* cf. *thielei*)	•*											
Buccinidae												
Chlanidota lamyi							•					
Chlanidota signeyana			•		•							
Neobuccinum eatoni				•								
Notoficula bouveti												
Notoficula signeyensis												
Probuccinum angulatum												
Probuccinum costatum												
Probuccinum cf. *regulus*							•					
Probuccinum tenerum												
Probuccinum tenuistriatum												
Prosipho cancellatus												
Prosipho chordatus												
Prosipho congenitus												
Prosipho contrarius												
Prosipho gaussianus												
Prosipho gracilis												
Prosipho hedleyi												
Prosipho hunteri												
Prosipho macleani												
Prosipho cf. *mundus*												
Prosipho nodosus												
Prosipho pellitus												
Prosipho perversus												
Prosipho pusillus												
Prosipho spiralis												
Prosipho tuberculatus												
Proneptunea rufa												
Heterostropha												
Trochaclidae												
Trochaclis antarctica	•											
Mellaneliiformes = Homoeostropha												
Eulimidae												
Melanella convexa					•							
Melanella solitaria												
Balcis antarctica												
Balcis tumidula												
Hemiaclis incolorata												
Opisthobranchia												
Cephalaspidea												
Cylichnidae												
Cylichna georgiana												
Philinidae												
Philine gibba												
Philine kerguelensis												
Diaphanidae												
Newnesia antarctica												
Prodiaphana paessleri		•										
Toledonia major												
Toledonia globosa												
Toledonia striata												
Toledonia parelata												
Pleurobranchida = Notaspidea												
Pleurobranchidae												
Bathyberthella antarctica		•			•							
Tomthompsonia antarctica												
Nudibranchia												
Dorididae												
Austrodoris kerguelensis sensu lato	•	•	•		•		•					

			det.
	Aegiretidae		
2	*Aegires (Anaegires) albus*	Thiele, 1912	MAR
	Bathydorididae		
3	*Bathydoris hodgsoni*	Eliot, 1907	MAR
4	*Bathydoris clavigera*	Thiele, 1912	MAR
	Tritoniidae		
5	*Tritonia antarctica*	Pfeffer in Martens and Pfeffer, 1886	MAR
6	*Tritoniella sinuata*	Eliot, 1907	MAR
7	*Doto antarctica*	Eliot, 1907	MAR
	Charcotiidae		
8	*Telarma antarctica*	Odhner, 1934	MAR
	Notaeolidiidae		
9	*Notaeolidia depressa*	Eliot, 1907	MAR
	Eubranchidae		
10	*Amphorina antarctica*	(Eliot, 1907)	MAR
	Tergipedidae		
11	*Cuthona schraderi*	(Pfeffer in Martens and Pfeffer, 1886)	MAR
	BIVALVIA		
	Ctenodontida		
	Malletiidae		
1	*Malletia pellucida*	Thiele, 1912	EGO
	Nuculanidae		
2	*Nuculana inaequisculpta*	(Lamy, 1906)	EGO
	Sareptidae		
3	*Yoldia (Aequiyoldia) eightsi*	(Courthouy in Jay, 1839)	EGO
4	*Yoldiella oblonga*	Pelseneer, 1903	EGO
5	*Yoldiella sabrina*	Hedley, 1916	EGO
6	*Yoldiella valettei*	(Lamy, 1906)	EGO
	Siliculidae		
7	*Propeleda longicaudata*	(Thiele, 1912)	EGO
8	*Phaseolus rouchi*	(Lamy, 1910)	EGO
	Cyrtodontida		
	Limopsidae		
9	*Limopsis hirtella*	Rochebrune and Mabile, 1889	EGO
10	*Limopsis jousseaumi jousseaumi*	(Rochebrune and Mabile, 1889)	EGO
11	*Limopsis lilliei*	Smith, 1915	EGO
12	*Limopsis longipilosa*	Pelseneer, 1903	EGO
13	*Limopsis marionensis*	Smith, 1885	EGO
14	*Limopsis scabra*	Thiele, 1912	EGO
15	*Limopsis* cf. *tenella tenella*	Jeffreys, 1879	EGO
	Philobryidae		
16	*Philobrya bagei*	(Hedley, 1916)	EGO
17	*Philobrya* cf. *barbata*	Thiele, 1912	EGO
18	*Philobrya capillata*	Dell, 1964	EGO
19	*Philobrya* cf. *limoides*	(Smith, 1907)	EGO
20	*Philobrya meridionalis*	(Smith, 1885)	EGO
21	*Philobrya obesa*	Powell, 1958	EGO
22	*Philobrya sublaevis*	(Pelseneer, 1903)	EGO
23	*Adacnarca limopsoides*	(Thiele, 1912)	EGO
24	*Adacnarca nitens*	Pelseneer, 1903	EGO
25	*Adacnarca wandelensis*	(Lamy, 1906)	EGO
26	*Lissarca notorcadensis*	Melvill and Standen,1907	EGO
	Mytiliformes		
	Mytilidae		
27	*Dacrydium albidum*	Pelseneer, 1903	EGO
	Pectiniformes		
	Pectinidae		
28	*Adamussium colbecki*	(Smith, 1902)	EGO
	Propeamussiidae		
29	*Cyclopecten (Pecten) pteriola*	(Melvill and Standen,1907)	EGO
30	*Palliolum* cf. *clathratum*	(Martens, 1881)	EGO

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Aegiretidae																		
Aegires (Anaegires) albus				•					•			•				•	•	
Bathydorididae																		
Bathydoris hodgsoni				•														
Bathydoris clavigera	•			•								•						
Tritoniidae																		
Tritonia antarctica	•			•														
Tritoniella sinuata										•								
Doto antarctica				•														
Charcotiidae																		
Telarma antarctica												•						
Notaeolidiidae																		
Notaeolidia depressa																		
Eubranchidae																		
Amphorina antarctica						•												
Tergipedidae																		
Cuthona schraderi						•												
BIVALVIA																		
Ctenodontida																		
Malletiidae																		
Malletia pellucida																		
Nuculanidae																		
Nuculana inaequisculpta													•			•		
Sareptidae																		
Yoldia (Aequiyoldia) eightsi													•					
Yoldiella oblonga																•		
Yoldiella sabrina													•			•		
Yoldiella valettei		•																
Siliculidae																		
Propeleda longicaudata			•									•	•	•				
Phaseolus rouchi												•				•		
Cyrtodontida																		
Limopsidae																		
Limopsis hirtella														•				
Limopsis jousseaumi jousseaumi																		
Limopsis lilliei	•	•	•			•	•		•	•		•	•	•		•		
Limopsis longipilosa																		
Limopsis marionensis	•	•			•	•	•		•	•		•	•					
Limopsis scabra						•			•									
Limopsis cf. *tenella tenella*																		
Philobryidae																		
Philobrya bagei		•				•		•					•			•		
Philobrya cf. *barbata*		•																
Philobrya capillata									•									
Philobrya cf. *limoides*		•																
Philobrya meridionalis								•	•							•		
Philobrya obesa		•														•		
Philobrya sublaevis	•	•	•	•		•	•		•	•			•	•		•		
Adacnarca limopsoides																		
Adacnarca nitens		•						•	•				•	•		•		
Adacnarca wandelensis		•				•			•							•		
Lissarca notorcadensis	•			•	•			•	•			•	•	•		•	•	
Mytiliformes																		
Mytilidae																		
Dacrydium albidum				•									•					
Pectiniformes																		
Pectinidae																		
Adamussium colbecki																		
Propeamussiidae																		
Cyclopecten (Pecten) pteriola																		
Palliolum cf. *clathratum*																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Aeglretidae																	
Aegires (Anaegires) albus																	
Bathydoridldae																	
Bathydoris hodgsonl																	
Bathydoris clavlgera																	
Tritoniidae																	
Tritonia antarctica																	
Tritoniella sinuata																	
Doto antarctica																	
Charcotiidae																	
Telarma antarctica																	
Notaeolidlidae																	
Notaeolidia depressa																	
Eubranchidae																	
Amphorina antarctica																	
Tergipedidae																	
Cuthona schraderi																	
BIVALVIA																	
Ctenodontida																	
Malletiidae																	
Malletia pellucida					•												
Nuculanidae																	
Nuculana inaequisculpta			•														
Sareptidae																	
Yoldia (Aequiyoldia) eightsi																	
Yoldiella oblonga			•						•	•							
Yoldiella sabrina			•														
Yoldiella valettei									•								
Siliculidae																	
Propeleda longicaudata																	
Phaseolus rouchi					•												
Cyrtodontida																	
Limopsidae																	
Limopsis hirtella																	
Limopsis jousseaumi jousseaumi									•								
Limopsis lilliei									•	•			•			•	
Limopsis longipilosa																	
Limopsis marionensis										•							
Limopsis scabra																	
Limopsis cf. *tenella tenella*					•												
Philobryidae																	
Philobrya bagei																	
Philobrya cf. *barbata*					•												
Philobrya capillata																	
Philobrya cf. *limoides*																	
Philobrya meridionalis																	
Philobrya obesa																	
Philobrya sublaevis	•				•					•			•				
Adacnarca limopsoides	•								•				•				
Adacnarca nitens	•				•					•							
Adacnarca wandelensis	•								•	•							
Lissarca notorcadensis					•				•	•							
Mytiliformes																	
Mytilidae																	
Dacrydium albidum					•				•	•							
Pectiniformes																	
Pectinidae																	
Adamussium colbecki																•	
Propeamusslidae																	
Cyclopecten (Pecten) pteriola										•							
Palliolum cf. *clathratum*	•				•												

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Aegiretidae												
Aegires (Anaegires) albus												
Bathydorididae												
Bathydoris hodgsoni				•		•	•					
Bathydoris clavigera	•						•					
Tritoniidae												
Tritonia antarctica												
Tritoniella sinuata					•							
Doto antarctica												
Charcotiidae												
Telarma antarctica												
Notaeolidiidae												
Notaeolidia depressa		•										
Eubranchidae												
Amphorina antarctica												
Tergipedidae												
Cuthona schraderi												
BIVALVIA												
Ctenodontida												
Malletiidae												
Malletia pellucida												
Nuculanidae												
Nuculana inaequisculpta												
Sareptidae												
Yoldia (Aequiyoldia) eightsi												
Yoldiella oblonga												
Yoldiella sabrina												
Yoldiella valettei												
Siliculidae												
Propeleda longicaudata												
Phaseolus rouchi												
Cyrtodontida												
Limopsidae												
Limopsis hirtella												
Limopsis jousseaumi jousseaumi												
Limopsis lilliei												
Limopsis longipilosa					•							
Limopsis marionensis	•				•		•					
Limopsis scabra												
Limopsis cf. *tenella tenella*												
Philobryidae												
Philobrya bagei												
Philobrya cf. *barbata*												
Philobrya capillata												
Philobrya cf. *limoides*												
Philobrya meridionalis												
Philobrya obesa												
Philobrya sublaevis	•	•	•		•		•					
Adacnarca limopsoides												
Adacnarca nitens	•				•		•					
Adacnarca wandelensis					•							
Lissarca notorcadensis	•	•	•	•	•		•					
Mytiliformes												
Mytilidae												
Dacrydium albidum	•				•							
Pectiniformes												
Pectinidae												
Adamussium colbecki												
Propeamussiidae												
Cyclopecten (Pecten) pteriola												
Palliolum cf. *clathratum*												

			det.
	Limidae		
31	*Limatula hodgsoni*	(Smith, 1907)	EGO
32	*Limatula deceptionensis*	Preston, 1916	EGO
33	*Limatula ovalis*	(Thiele, 1912)	EGO
34	*Limatula simillima*	(Thiele, 1912)	EGO
	Pholadomyiformes		
	Pholadomyidae		
35	*Pholadomya adelaidis*	Hedley, 1916	EGO
36	*Pholadomya antarctica*	Hedley, 1916	EGO
37	*Pholadomya mawsoni*	Hedley, 1916	EGO
	Lyonsiidae		
38	*Lyonsia arcaeformis*	(Martens, 1885)	EGO
	Thraciidae		
39	*Thracia meridionalis*	Smith, 1885	EGO
	Laternulidae		
40	*Laternula elliptica*	(King and Broederip,1831)	EGO
	Luciniformes = Astartia		
	Astartidae		
41	*Astarte antarctica*	Thiele, 1912	EGO
	Thyasiridae		
42	*Thyasira bongraini*	(Lamy, 1910)	EGO
	Kelliidae		
43	*Kellia simulans*	Smith, 1907	EGO
	Erycinidae		
44	*Lasaea consaguinea*	(Smith, 1879)	EGO
	Montacutidae		
45	*Mysella charcoti*	(Lamy, 1906)	EGO
46	*Mysella gibbosa*	(Thiele, 1912)	EGO
47	*Mysella miniuscula*	Pfeffer, 1886	EGO
	Cyamiidae		
48	*Cyamiomactra* cf. *laminifera*	(Lamy, 1906)	EGO
49	*Cyamiomactra robusta*	Nicol, 1964	EGO
50	*Diplodonta incerta*	Smith, 1907	EGO
	Cardiiformes = Carditida		
	Carditidae		
51	*Cyclocardia antarctica*	(Smith, 1907)	EGO
52	*Cyclocardia astartoides*	(Martens, 1878)	EGO
	Condylocardiidae		
53	*Carditella mawsoni*	Dell, 1972	EGO
	Venerida		
	Vesicomyidae		
54	*Ptychocardia vanhoeffeni*	Thiele, 1912	EGO
	Cuspidarilida		
	Cuspidariidae		
55	*Cuspidaria infelix*	Thiele, 1912	EGO
56	*Cuspidaria multicostata*	Egorova, 1993	EGO
57	*Cuspidaria plicata*	Thiele, 1912	EGO
58	*Cuspidaria tenella*	Smith, 1907	EGO
59	*Subcuspidaria kerguelenensis*	(Smith, 1885)	EGO
60	*Subcuspidaria minima*	Egorova, 1993	EGO
	CEPHALOPODA		
	Teuthida		
	Psychroteuthidae		
1	*Psychroteuthis glacialis*	Thiele, 1920	xNES
	Octopoda		
	Octopodidae		
2	*Pareledone* cf. *adelieana*	(Berry, 1917)	xNES
3	*Pareledone turqueti*	(Joubin, 1905)	•ALL
4	*Pareledone polymorpha*	(Robson, 1930)	•ALL
5	*Pareledone harrisoni*	(Berry, 1917)	xNES
6	*Megaleledone senoi*	Taki, 1961	•ALL
7	*Pareledone charcoti*	(Joubin, 1905)	•ALL, xNES

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Limidae																		
Limatula hodgsoni	•	•			•	•	•		•							•		
Limatula deceptionensis						•	•											
Limatula ovalis													•			•		
Limatula simillima						•												
Pholadomyiformes																		
Pholadomyidae																		
Pholadomya adelaidis																•		
Pholadomya antarctica	•						•											
Pholadomya mawsoni																		
Lyonsiidae																		
Lyonsia arcaeformis						•	•		•			•	•	•				
Thraciidae																		
Thracia meridionalis		•				•	•		•			•	•	•		•		
Laternulidae																		
Laternula elliptica	•		•						•	•								
Luciniformes = Astartia																		
Astartidae																		
Astarte antarctica	•																	
Thyasiridae																		
Thyasira bongraini		•	•			•							•	•		•		
Kelliidae																		
Kellia simulans						•										•		
Erycinidae																		
Lasaea consaguinea																		
Montacutidae																		
Mysella charcoti																		
Mysella gibbosa																•		
Mysella miniuscula						•	•						•					
Cyamiidae																		
Cyamiomactra cf. *laminifera*					•	•	•		•									
Cyamiomactra robusta						•			•				•					
Diplodonta incerta					•		•		•									
Cardiiformes = Carditida																		
Carditidae																		
Cyclocardia antarctica	•	•														•		
Cyclocardia astartoides	•		•			•			•			•		•		•	•	
Condylocardiidae																		
Carditella mawsoni		•				•			•				•			•		
Veneridа																		
Vesicomyidae																		
Ptychocardia vanhoeffeni			•													•		
Cuspidariida																		
Cuspidariidae																		
Cuspidaria infelix							•					•	•			•		
Cuspidaria multicostata						•	•						•					
Cuspidaria plicata	•					•	•											
Cuspidaria tenella	•	•			•	•												
Subcuspidaria kerguelenensis													•					
Subcuspidaria minima									•									
CEPHALOPODA																		
Teuthida																		
Psychroteuthidae																		
Psychroteuthis glacialis																		
Octopoda																		
Octopodidae																		
Pareledone cf. *adelieana*		x																
Pareledone turqueti	•	•		•	•	•	•						•			•		
Pareledone polymorpha	•	•		•			•											
Pareledone harrisoni	x			x														
Megaleledone senoi	•	•	•	•									•					
Pareledone charcoti	•	•x	•	•x									•x					

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Limidae																	
Limatula hodgsoni	•				•				•	•			•			•	
Limatula deceptionensis										•							
Limatula ovalis					•				•	•			•				
Limatula simillima									•								
Pholadomyiformes																	
Pholadomyidae																	
Pholadomya adelaidis																	
Pholadomya antarctica																	
Pholadomya mawsoni																	
Lyonsiidae																	
Lyonsia arcaeformis	•									•							
Thraciidae																	
Thracia meridionalis									•	•			•			•	
Laternulidae																	
Laternula elliptica																	
Luciniformes = Astartia																	
Astartidae																	
Astarte antarctica																	
Thyasiridae																	
Thyasira bongraini					•					•			•			•	
Kelliidae																	
Kellia simulans									•	•			•				
Erycinidae																	
Lasaea consaguinea																	
Montacutidae																	
Mysella charcoti																	
Mysella gibbosa									•								
Mysella miniuscula										•							
Cyamiidae																	
Cyamiomactra cf. *laminifera*																	
Cyamiomactra robusta																	
Diplodonta incerta																	
Cardiiformes = Carditida																	
Carditidae																	
Cyclocardia antarctica					•												
Cyclocardia astartoides	•									•			•				
Condylocardiidae																	
Carditella mawsoni	•				•				•	•			•				
Veneridа																	
Vesicomyidae																	
Ptychocardia vanhoeffeni					•				•								
Cuspidariida																	
Cuspidariidae																	
Cuspidaria infelix																	
Cuspidaria multicostata																	
Cuspidaria plicata																	
Cuspidaria tenella																	
Subcuspidaria kerguelenensis										•							
Subcuspidaria minima																	
CEPHALOPODA																	
Teuthida																	
Psychroteuthidae																	
Psychroteuthis glacialis																	
Octopoda																	
Octopodidae																	
Pareledone cf. *adelieana*																	
Pareledone turqueti																	
Pareledone polymorpha																	
Pareledone harrisoni																	
Megaleledone senoi																	
Pareledone charcoti																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Limidae												
Limatula hodgsoni	•	•	•		•		•					
Limatula deceptionensis												
Limatula ovalis	•											
Limatula simillima												
Pholadomyiformes												
Pholadomyidae												
Pholadomya adelaidis												
Pholadomya antarctica												
Pholadomya mawsoni					•							
Lyonsiidae												
Lyonsia arcaeformis	•						•					
Thraciidae												
Thracia meridionalis	•						••					
Laternulidae												
Laternula elliptica												
Luciniformes = Astartia												
Astartidae												
Astarte antarctica												
Thyasiridae												
Thyasira bongraini	••				••							
Kelliidae												
Kellia simulans												
Erycinidae												
Lasaea consaguinea							•					
Montacutidae												
Mysella charcoti	•											
Mysella gibbosa												
Mysella miniuscula												
Cyamiidae												
Cyamiomactra cf. *laminifera*												
Cyamiomactra robusta												
Diplodonta incerta												
Cardiiformes = Carditida												
Carditidae												
Cyclocardia antarctica			•		•		•					
Cyclocardia astartoides												
Condylocardiidae												
Carditella mawsoni												
Venerida												
Vesicomyidae												
Ptychocardia vanhoeffeni												
Cuspidarilida												
Cuspidariidae												
Cuspidaria infelix					••							
Cuspidaria multicostata					•							
Cuspidaria plicata												
Cuspidaria tenella	•				•							
Subcuspidaria kerguelenensis												
Subcuspidaria minima												
CEPHALOPODA												
Teuthida												
Psychroteuthidae												
Psychroteuthis glacialis	x											
Octopoda												
Octopodidae												
Pareledone cf. *adelieana*												
Pareledone turqueti	•	•	•		•	•	•					
Pareledone polymorpha	•	•			•		••					
Pareledone harrisoni						x	x					
Megaleledone senoi		•				•						
Pareledone charcoti	•	•	•	•	•	•x	••					

			det.
8	*Benthoctopus levis*	(Hoyle, 1885)	•ALL
	Opisthoteuthidae		
9	*Grimpoteuthis glacialis*	(Robson, 1930)	•ALL
10	*Grimpoteuthis mawsoni*	(Berry, 1917)	xNES
	ARTICULATA		
	PYCNOGONIDA		
	Ammotheidae		
1	*Achelia spicata*	(Hodgson, 1915)	TUR
2	*Achelia sufflata*	Gordon, 1944	TUR
3	*Ammothea calmani*	Gordon, 1932	TUR
4	*Ammothea carolinensis*	Leach, 1814	TUR
5	*Ammothea clausi*	Pfeffer, 1889	TUR
6	*Ammothea glacialis*	(Hodgson, 1907)	TUR
7	*Ammothea longispina*	Gordon, 1932	TUR
8	*Ammothea minor*	(Hodgson, 1907)	TUR
9	*Ammothea stylirostris*	Gordon, 1932	TUR
10	*Austroraptus praecox*	Calman, 1915	TUR
11	*Austroraptus juvenilis*	Calman, 1915	TUR
12	*Blammothea brevipalpa*	Pushkin, 1993	TUR
13	*Ecleipsotremma spinosa*	(Hodgson, 1907)	TUR
14	*Magnammothea gigantea*	(Gordon, 1932)	TUR
15	*Tavmastopycnon striata*	(Mobius, 1902)	TUR
	Nymphonidae		
16	*Nymphon australe*	Hodgson, 1902	TUR
17	*Nymphon banzare*	Gordon, 1944	TUR
18	*Nymphon biarticulatum*	(Hodson, 1907)	TUR
19	*Nymphon brevicaudatum*	Miers, 1875	TUR
20	*Nymphon charcoti*	Bouvier, 1911	TUR
21	*Nymphon eltaninae*	Child, 1995	TUR
22	*Nymphon gracilipes*	Miers, 1875	TUR
23	*Nymphon gruzovi*	Pushkin, 1992	TUR
24	*Nymphon inornatum*	Child, 1995	TUR
25	*Nymphon macrochelatum*	Pushkin, 1992	TUR
26	*Nymphon mendosum*	(Hodgson, 1907)	TUR
27	*Nymphon multituberculatum*	Gordon, 1944	TUR
28	*Nymphon pagophilum*	Child, 1995	TUR
29	*Nymphon paucituberculatum*	Gordon, 1944	TUR
30	*Nymphon proximum*	Calman, 1915	TUR
31	*Nymphon rybakovi*	Pushkin, 1992	TUR
32	*Nymphon tenuipes*	Bouvier, 1911	TUR
33	*Nymphon typhlops*	Hodgson, 1908	TUR
34	*Nymphon villosum*	(Hodgson, 1907)	TUR
35	*Pentanymphon antarcticum*	Hodgson, 1904	TUR
36	*Pentanymphon minutum*	Gordon, 1944	TUR
	Callipallenidae		
37	*Clavigeropallene spicata*	(Hodgson, 1915)	TUR
38	*Austropallene brachyura*	(Bouvier, 1911)	TUR
39	*Austropallene cornigera*	(Moebius, 1902)	TUR
40	*Austropallene cristata*	(Bouvier, 1911)	TUR
41	*Austropallene tcherniai*	Fage, 1952	TUR
	Phoxichilidiidae		
42	*Anoplodactylum australis*	(Hodgson, 1914)	TUR
43	*Pallenopsis buphtalmus*	Pushkin, 1993	TUR
44	*Pallenopsis hiemalis*	Hodgson, 1907	TUR
45	*Pallenopsis leiopus*	Pushkin, 1992	TUR
46	*Pallenopsis patagonica*	(Hoek, 1881)	TUR
47	*Pallenopsis pilosa*	(Hoek, 1881)	TUR
48	*Pallenopsis vanchoffeni*	Hodgson, 1915	TUR
49	*Bathypallenopsis villosa*	(Hodgson, 1907)	TUR
	Austrodecidae		
50	*Austrodecus glaciale*	Hodgson, 1907	TUR

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Benthoctopus levis																		
Opisthoteuthidae																		
Grimpoteuthis glacialis																		
Grimpoteuthis mawsoni																		
ARTICULATA																		
PYCNOGONIDA																		
Ammotheidae																		
Achelia spicata					•		•					•				•		•
Achelia sufflata							•											•
Ammothea calmani	•																	
Ammothea carolinensis	•			•			•											
Ammothea clausi				•														
Ammothea glacialis												•						
Ammothea longispina	•			•														
Ammothea minor							•					•						
Ammothea stylirostris	•																	
Austroraptus praecox									•									
Austroraptus juvenilis	•																	
Biammothea brevipalpa	•			•														
Ecleipsotremma spinosa																		
Magnammothea gigantea				•														
Tavmastopycnon striata																		
Nymphonidae																		
Nymphon australe	•	•	•	•			•					•	•			•		•
Nymphon banzare													•					
Nymphon biarticulatum	•			•						•		•	•					
Nymphon brevicaudatum																		
Nymphon charcoti		•	•															
Nymphon eltaninae				•														
Nymphon gracilipes				•														
Nymphon gruzovi																		
Nymphon inornatum				•														
Nymphon macrochelatum													•					
Nymphon mendosum				•			•					•						
Nymphon multituberculatum																		
Nymphon pagophilum				•														
Nymphon paucituberculatum																		
Nymphon proximum	•	•	•	•						•							•	
Nymphon rybakovi	•																	
Nymphon tenuipes													•					
Nymphon typhlops																		
Nymphon villosum										•							•	
Pentanymphon antarcticum							•		•	•	•					•	•	
Pentanymphon minutum				•			•	•				•						
Callipallenidae																		
Clavigeropallene spicata				•								•						
Austropallene brachyura				•									•			•		
Austropallene cornigera	•	•		•				•	•	•			•			•	•	•
Austropallene cristata																	•	
Austropallene tchernai																		
Phoxichilidiidae																		
Anoplodactylum australis																		
Pallenopsis buphtalmus				•					•									
Pallenopsis hiemalis				•			•	•				•						
Pallenopsis lelopus				•				•										
Pallenopsis patagonica																		
Pallenopsis pilosa	•			•							•	•					•	
Pallenopsis vanchoffeni	•	•					•					•				•		
Bathypallenopsis villosa	•	•		•			•					•				•		
Austrodecidae																		
Austrodecus glaciale	•						•						•					

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Benthoctopus levis																	
Opisthoteuthidae																	
Grimpoteuthis glacialis																	
Grimpoteuthis mawsoni																	
ARTICULATA																	
PYCNOGONIDA																	
Ammotheidae																	
Achelia spicata																	
Achelia sufflata																	
Ammothea calmani																	
Ammothea carolinensis																	
Ammothea clausi																	
Ammothea glacialis																	
Ammothea longispina																	
Ammothea minor																	
Ammothea stylirostris																	
Austroraptus praecox																	
Austroraptus juvenilis																	
Blammothea brevipalpa																	
Ecleipsotremma spinosa																	
Magnammothea gigantea																	
Tavmastopycnon striata																	
Nymphonidae																	
Nymphon australe	•				•										•		
Nymphon banzare														•			
Nymphon biarticulatum																	
Nymphon brevicaudatum																	
Nymphon charcoti																	
Nymphon eltaninae																	
Nymphon gracilipes																	
Nymphon gruzovi												•					
Nymphon inornatum																	
Nymphon macrochelatum																	
Nymphon mendosum	•				•												
Nymphon multituberculatum					•												
Nymphon pagophilum																	
Nymphon paucituberculatum		•													•		
Nymphon proximum															•		
Nymphon rybakovi																	
Nymphon tenuipes																	
Nymphon typhlops				•													
Nymphon villosum																	
Pentanymphon antarcticum	•																
Pentanymphon minutum					•												
Callipallenidae																	
Clavigeropallene spicata																	
Austropallene brachyura						•											
Austropallene cornigera	•																
Austropallene cristata	•				•												
Austropallene tcherniai		•															
Phoxichilidiidae																	
Anoplodactylum australis																	
Pallenopsis buphtalmus																	
Pallenopsis hiemalis																	
Pallenopsis leiopus																	
Pallenopsis patagonica																	
Pallenopsis pilosa																	
Pallenopsis vanchoffeni																	
Bathypallenopsis villosa																	
Austrodecidae																	
Austrodecus glaciale	•	•			•										•		

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Benthoctopus levis				•								
Opisthoteuthidae												
Grimpoteuthis glacialis				•								
Grimpoteuthis mawsoni			x		x							
ARTICULATA												
PYCNOGONIDA												
Ammotheidae												
Achelia spicata												
Achelia sufflata												
Ammothea calmani	•											
Ammothea carolinensis	•	•	•				•					
Ammothea clausi												
Ammothea glacialis												
Ammothea longispina												
Ammothea minor												
Ammothea stylirostris												
Austroraptus praecox												
Austroraptus juvenilis												
Blammothea brevipalpa												
Eclelpsotremma spinosa				•								
Magnammothea gigantea												
Tavmastopycnon striata			•									
Nymphonidae												
Nymphon australe	•	•	•	•	•	•						
Nymphon banzare		•			•							
Nymphon biarticulatum	•		•	•	•							
Nymphon brevicaudatum			•									
Nymphon charcoti		•	•									
Nymphon eltaninae		•	•	•								
Nymphon gracilipes											•	
Nymphon gruzovi												
Nymphon inornatum												
Nymphon macrochelatum												
Nymphon mendosum	•		•	•	•							
Nymphon multituberculatum												
Nymphon pagophilum												
Nymphon pauclituberculatum												
Nymphon proximum			•	•	•							•
Nymphon rybakovi												
Nymphon tenuipes					•							
Nymphon typhlops												
Nymphon villosum		•	•		•		•					
Pentanymphon antarcticum	•	•		•			•					
Pentanymphon minutum												
Callipallenidae												
Clavigeropallene spicata		•		•								
Austropallene brachyura												
Austropallene cornigera		•		•	•							
Austropallene cristata		•					•					
Austropallene tcherniai												
Phoxichilidiidae												
Anoplodactylum australis				•								
Pallenopsis buphtalmus							•					
Pallenopsis hiemalis				•								
Pallenopsis lelopus				•	•							
Pallenopsis patagonica							•					
Pallenopsis pilosa	•		•	•			•					
Pallenopsis vanchoffeni				•								
Bathypallenopsis villosa			•		•		•					
Austrodecidae												
Austrodecus glaciale												

			det.
51	*Austrodecus simulans*	Stock, 1957	TUR
	Endeidae		
52	*Endeis australis*	(Hodgson, 1907)	TUR
	Rhynchothoracidae		
53	*Rhynchothorax australis*	Hodson, 1907	TUR
	Colossendeidae		
54	*Colossendeis australis*	Hodgson, 1907	TUR
55	*Colossendeis avidus*	Pushkin, 1970	TUR
56	*Colossendeis drakei*	Calman, 1915	TUR
57	*Colossendeis fragilis*	Pushkin, 1993	TUR
58	*Colossendeis glacialis*	Hodgson, 1907	TUR
59	*Colossendeis lilliei*	Calman, 1915	TUR
60	*Colossendeis longirostris*	Gordon, 1938	TUR
61	*Colossendeis megalonyx arundorostris*	Fry and Hedgpeth, 1969	TUR
61	*Colossendeis megalonyx megalonyx*	Fry and Hedgpeth, 1969	TUR
62	*Colossendeis rugosa*	Hodgson, 1907	TUR
63	*Colossendeis tenuipedis*	Pushkin, 1993	TUR
64	*Colossendeis tethia*	Turpaeva, 1974	TUR
65	*Colossendeis tortipalpis*	Gordon, 1932	TUR
	Pycnogonidae		
66	*Pycnogonum gaini*	Bouvier, 1910	TUR
67	*Pycnogonum gordoni*	Pushkin, 1984	TUR
68	*Pentapycnon bouvieri*	Pushkin, 1993	TUR
	CRUSTACEA		
	Leptostraca		
1	*Nebalia antarctica*	Dahl, 1990	PET
	Mysidacea		
	Mysidae		
1	*Amblyops tattersalli*	Zimmer, 1914	PET
2	*Pseudomma armatum*	Hansen, 1913	PET
3	*Antarctomysis maxima*	(Hansen in Holt and Tattersall, 1906)	PET
4	*Mysidetes posthon*	Holt and Tattersall, 1906	PET
	Cumacea		
	Lampropidae		
1	*Hemilamprops pellucida*	Zimmer, 1908	VAS
	Diastylidae		
2	*Diastylis anderssonni armata*	Ledoyer, 1993	VAS
3	*Diastylis corniculata*	Hale, 1937	VAS
4	*Diastylis helleri*	Zimmer, 1907	VAS
5	*Diastylis mawsoni*	Calman, 1918	VAS
6	*Makrokylindrus inscriptus*	Jones, 1971	VAS
7	*Leptostylis crassicauda*	Zimmer, 1907	VAS
	Leuconidae		
8	*Leucon assimilis*	Sars, 1887	VAS
9	*Leucon polarsterni*	Ledoyer, 1993	VAS
	Nannastacidae		
10	*Cumella australis*	Calman, 1907	VAS
11	*Campylaspis antarctica*	Calman, 1907	VAS
12	*Campylaspis excavata*	Ledoyer, 1993	VAS
13	*Campylaspis johnstoni*	Hale, 1937	VAS
14	*Campylaspis quadridentata*	Ledoyer, 1993	VAS
	Bodotriidae		
15	*Cyclaspis gigas*	Zimmer, 1907	VAS
16	*Vaunthompsonia laevifrons*	Gamo, 1987	VAS
	Decapoda		
	Nematocarcinidae		
1	*Nematocarcinus lanceopes*	Bate, 1888	ARN
	Hippolythidae		
2	*Chorismus antarcticus*	(Pfeffer, 1887)	ARN
3	*Eualus kinzeri*	Tiefenbacher, 1990	ARN
4	*Lebbeus antarcticus*	Hale, 1941	ARN

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Austrodecus simulans																		
Endeidae																		
Endeis australis				•			•		•									
Rhynchothoracidae																		
Rhynchothorax australis							•											
Colossendeidae																		
Colossendeis australis		•																
Colossendeis avidus				•														
Colossendeis drakei	•			•														
Colossendeis fragilis																		
Colossendeis glacialis	•									•								
Colossendeis lilliei		•		•												•		
Colossendeis longirostris																		
Colossendeis megalonyx arundorostris				•			•					•	•					•
Colossendeis megalonyx megalonyx	•	•		•					•									
Colossendeis rugosa				•								•						
Colossendeis tenuipedis																		
Colossendeis tethia	•																	
Colossendeis tortipalpis	•																	
Pycnogonidae																		
Pycnogonum gaini	•			•			•			•								
Pycnogonum gordoni	•			•								•						
Pentapycnon bouvieri				•														
CRUSTACEA																		
Leptostraca																		
Nebalia antarctica				•														
Mysidacea																		
Mysidae																		
Amblyops tattersalli										•								
Pseudomma armatum				•														
Antarctomysis maxima	•			•								•						•
Mysidetes posthon																		
Cumacea																		
Lampropidae																		
Hemilamprops pellucida																		
Diastylidae																		
Diastylis anderssonni armata				•														
Diastylis corniculata					•							•						
Diastylis helleri									•							•		
Diastylis mawsoni	•			•	•							•						
Makrokylindrus inscriptus																	•	
Leptostylis crassicauda																		
Leuconidae																		
Leucon assimilis																		
Leucon polarsterni																		
Nannastacidae																		
Cumella australis																•		
Campylaspis antarctica						•	•									•		
Campylaspis excavata						•	•											
Campylaspis johnstoni					•											•	•	
Campylaspis quadridentata				•														
Bodotriidae																		
Cyclaspis gigas	•			•	•	•	•		•	•						•		•
Vaunthompsonia laevifrons																		
Decapoda																		
Nematocarcinidae																		
Nematocarcinus lanceopes			•							•					•			
Hippolythidae																		
Chorismus antarcticus	•	•		•	•	•	•		•			•						
Eualus kinzeri													•					
Lebbeus antarcticus				•									•					

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Austrodecus simulans					•												
Endeidae																	
Endeis australis																	
Rhynchothoracidae																	
Rhynchothorax australis	•																
Colossendeidae																	
Colossendeis australis																	
Colossendeis avidus																	
Colossendeis drakei																	
Colossendeis fragilis																	
Colossendeis glacialis																	
Colossendeis lilliei																	
Colossendeis longirostris																	
Colossendeis megalonyx arundorostris																	
Colossendeis megalonyx megalonyx																	
Colossendeis rugosa																	
Colossendeis tenuipedis																	
Colossendeis tethia																	
Colossendeis tortipalpis	•																
Pycnogonidae																	
Pycnogonum gaini																	
Pycnogonum gordoni																	
Pentapycnon bouvieri																	
CRUSTACEA																	
Leptostraca																	
Nebalia antarctica																	
Mysidacea																	
Mysidae																	
Amblyops tattersalli																	
Pseudomma armatum																	
Antarctomysis maxima																	
Mysidetes posthon																	
Cumacea																	
Lampropidae																	
Hemilamprops pellucida			•														
Diastylidae																	
Diastylis anderssonni armata																	
Diastylis corniculata																	
Diastylis helleri	•				•								•			•	
Diastylis mawsoni																	
Makrokylindrus inscriptus			▪														
Leptostylis crassicauda	•	•	•		•												
Leuconidae																	
Leucon assimilis		•															
Leucon polarsterni				•													
Nannastacidae																	
Cumella australis	•																
Campylaspis antarctica	•	•		•						•							
Campylaspis excavata	▪																
Campylaspis johnstoni				•	•								•				
Campylaspis quadridentata		•															
Bodotriidae																	
Cyclaspis gigas	•				•				•								
Vaunthompsonia laevifrons		▪															
Decapoda																	
Nematocarcinidae																	
Nematocarcinus lanceopes																	
Hippolythidae																	
Chorismus antarcticus																	
Eualus kinzeri																	
Lebbeus antarcticus																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Austrodecus simulans												
Endeidae												
Endeis australis		•		•								
Rhynchothoracidae												
Rhynchothorax australis												
Colossendeidae												
Colossendeis australis												
Colossendeis avidus						•						
Colossendeis drakei		•										
Colossendeis fragilis			•									
Colossendeis glacialis												
Colossendeis lilliei	•											
Colossendeis longirostris			•									
Colossendeis megalonyx arundorostris	•				•							
Colossendeis megalonyx megalonyx				•								
Colossendeis rugosa	•											
Colossendeis tenuipedis						•						
Colossendeis tethia												
Colossendeis tortipalpis		•					•				•	
Pycnogonidae												
Pycnogonum gaini					•							
Pycnogonum gordoni												
Pentapycnon bouvieri												
CRUSTACEA												
Leptostraca												
Nebalia antarctica												
Mysidacea												
Mysidae												
Amblyops tattersalli												
Pseudomma armatum												
Antarctomysis maxima			•		•		•					
Mysidetes posthon					•							
Cumacea												
Lampropidae												
Hemilamprops pellucida												
Diastylidae												
Diastylis anderssonni armata												
Diastylis corniculata					•							
Diastylis helleri	•											
Diastylis mawsoni					•							
Makrokylindrus inscriptus												
Leptostylis crassicauda												
Leuconidae												
Leucon assimilis												
Leucon polarsterni												
Nannastacidae												
Cumella australis												
Campylaspis antarctica												
Campylaspis excavata												
Campylaspis johnstoni												
Campylaspis quadridentata					•							
Bodotriidae												
Cyclaspis gigas												
Vaunthompsonia laevifrons												
Decapoda												
Nematocarcinidae												
Nematocarcinus lanceopes			•	•								•
Hippolythidae												
Chorismus antarcticus	•	•			•	•	•					
Eualus kinzeri			•									
Lebbeus antarcticus			•									

			det.
	Crangonidae		
5	*Notocrangon antarcticus*	(Pfeffer, 1887)	ARN
	Amphipoda		
	Ampeliscidae		
1	*Ampelisca anversensis*	Karaman, 1975	RAU
2	*Ampelisca barnardi*	Nicholls, 1938	DEB
3	*Ampelisca bransfieldi*	K.H. Barnard, 1932	RAU
	Ampelisca n.sp. 1	De Broyer, in prep.	DEB
4	*Ampelisca richardsoni*	Karaman, 1975	RAU/DEB
5	*Byblisoides juxtacornis*	K.H. Barnard, 1931	RAU
	Amphilochidae		
6	*Amphilochus* cf. *marionis*	Stebbing, 1888	RAU
7	*Gitanopsis inaequipes*	Schellenberg, 1926	RAU
	Ceradocus group (Gammarida)		
8	*Paraceradocus gibber*	Andres, 1984	RAU/DEB
9	*Paraceradocus miersii*	(Pfeffer, 1888)	RAU/DEB
	Colomastigidae		
10	*Colomastix fissilingua*	Schellenberg, 1926	RAU
	Dexaminidae		
11	*Lepechinella drygalskii*	Schellenberg, 1926	RAU
12	*Polycheria antarctica*	(Stebbing, 1875)	RAU/DEB
13	*Polycheria nuda*	Holman and Watling, 1983	RAU
	Epimeriidae		
14	*Epimeria annabellae*	Coleman, 1994	DEB
15	*Epimeria georgiana*	Schellenberg, 1931	RAU/DEB
16	*Epimeria grandirostris*	Chevreux, 1912	DEB
17	*Epimeria macrodonta*	Walker, 1906	RAU/DEB
18	*Epimeria monodon*	Stephensen, 1947	RAU/DEB
19	*Epimeria oxicarinata*	Coleman, 1990	DEB
20	*Epimeria pulchra*	Coleman, 1990	DEB
21	*Epimeria robusta*	K.H. Barnard, 1930	DEB
22	*Epimeria rubrieques*	De Broyer and Klages, 1991	RAU/DEB
23	*Epimeria similis*	Chevreux, 1912	RAU/DEB
24	*Epimeriella truncata*	Andres, 1985	RAU
25	*Epimeriella walkeri*	K.H. Barnard, 1930	RAU/DEB
	Eusiridae sensu lato		
26	*Atyloella magellanica*	(Stebbing, 1888)	RAU
27	*Atylopsis megalops*	(Nicholls, 1938)	RAU
28	*Eusirus* cf. *antarcticus*	Thomson, 1880	RAU/DEB
29	*Eusirus microps*	Walker, 1906	RAU/DEB
30	*Eusirus perdentatus*	Chevreux, 1912	RAU/DEB
31	*Eusirus propeperdentatus*	Andres, 1979	DEB
32	*Liouvillea oculata*	Chevreux, 1912	RAU/DEB
33	*Oradarea tricarinata*	K.H. Barnard, 1932	RAU/DEB
34	*Oradarea tridentata*	K.H. Barnard, 1932	RAU
35	*Oradarea walkeri*	Shoemaker, 1930	RAU/DEB
36	*Paramoera impressicauda*	K.H. Barnard, 1932	RAU
37	*Prostebbingia gracilis*	(Chevreux, 1912)	RAU
38	*Prostebbingia serrata*	Schellenberg, 1926	RAU/DEB
39	*Rhachotropis anoculata*	J.L. Barnard, 1962	RAU
40	*Rhachotropis antarctica*	K.H. Barnard, 1932	RAU/DEB
41	*Rhachotropis hunteri*	Nicholls, 1938	RAU
42	*Schraderia gracilis*	Pfeffer, 1888	RAU
	Iphimediidae		
43	*Echiniphimedia echinata*	Walker, 1906	DEB
44	*Echiniphimedia hodgsoni*	Walker, 1906	RAU/DEB
45	*Echiniphimedia waegelei*	Coleman and Andres, 1987	DEB
46	*Gnathiphimedia mandibularis*	K.H. Barnard, 1930	DEB
47	*Gnathiphimedia sexdentata*	(Schellenberg, 1926)	RAU/DEB
48	*Iphimedia imparilabia*	Watling and Holman, 1980	DEB
49	*Iphimediella cyclogena*	K.H. Barnard, 1930	RAU
50	*Iphimediella octodentata*	Nicholls, 1938	DEB

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Crangonidae																		
Notocrangon antarcticus	•		•	•	•							•	•					
Amphipoda																		
Ampeliscidae																		
Ampelisca anversensis		•														•		
Ampelisca barnardi	•	•		•	•	•						•						
Ampelisca bransfieldi															•			
Ampelisca n.sp. 1				•														
Ampelisca richardsoni	•	•	•		•	•	•		•	•		•						
Bybilsoides juxtacornis															•			
Amphilochidae																		
Amphilochus cf. *marionis*																•		
Gitanopsis inaequipes					•												•	
Ceradocus group (Gammarida)																		
Paraceradocus gibber						•												
Paraceradocus miersii																		
Colomastigidae																		
Colomastix fissilingua																		•
Dexaminidae																		
Lepechinella drygalskii										•							•	
Polycheria antarctica		•							•							•		
Polycheria nuda																		•
Epimeriidae																		
Epimeria annabellae					•													
Epimeria georgiana	•			•														
Epimeria grandirostris									•	•								
Epimeria macrodonta	•				•	•				•								
Epimeria monodon																•		
Epimeria oxicarinata		•																
Epimeria pulchra	•																	
Epimeria robusta																		
Epimeria rubrieques										•						•	•	
Epimeria similis	•			•	•							•	•					
Epimeriella truncata				•													•	
Epimeriella walkeri				•	•													
Eusiridae sensu lato																		
Atyloella magellanica						•			•			•						
Atylopsis megalops						•						•				•		
Eusirus cf. *antarcticus*	•				•				•									
Eusirus microps				•														
Eusirus perdentatus	•	•	•	•		•						•	•	•				
Eusirus propeperdentatus				•														
Liouvillea oculata						•						•						
Oradarea tricarinata					•											•		
Oradarea tridentata									•			•				•		
Oradarea walkeri																•		
Paramoera impressicauda																		
Prostebbingia gracilis		•																
Prostebbingia serrata		•			•													
Rhachotropis anoculata															•			
Rhachotropis antarctica		•					•											•
Rhachotropis hunteri				•			•											
Schraderia gracilis		•							•							•		
Iphimediidae																		
Echiniphimedia echinata		•																
Echiniphimedia hodgsoni	•				•	•	•					•						
Echiniphimedia waegelei						•												
Gnathiphimedia mandibularis					•	•												
Gnathiphimedia sexdentata					•													
Iphimedia imparilabia																		
Iphimediella cyclogena	•			•														
Iphimediella octodentata					•													

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Crangonidae																	
Notocrangon antarcticus																	
Amphipoda																	
Ampeliscidae																	
Ampelisca anversensis																	
Ampelisca barnardi	•																
Ampelisca bransfieldi			•														
Ampelisca n.sp. 1																	
Ampelisca richardsoni	•				•												
Byblisoides juxtacornis			•														
Amphilochidae																	
Amphilochus cf. *marionis*																	
Gitanopsis inaequipes					•					•							
Ceradocus group (Gammarida)																	
Paraceradocus gibber									•								
Paraceradocus miersii								•	•								
Colomastigidae																	
Colomastix fissilingua	•				•			•									
Dexaminidae																	
Lepechinella drygalskii					•			•	•								
Polycheria antarctica																	
Polycheria nuda	•				•			•	•								
Epimeriidae																	
Epimeria annabellae								•	•								
Epimeria georgiana																	
Epimeria grandirostris																	
Epimeria macrodonta																	
Epimeria monodon																	
Epimeria oxicarinata																	
Epimeria pulchra																	
Epimeria robusta																	
Epimeria rubrieques																	
Epimeria similis																	
Epimeriella truncata																	
Epimeriella walkeri																	
Eusiridae sensu lato																	
Atyloella magellanica																	
Atylopsis megalops																	
Eusirus cf. *antarcticus*																	
Eusirus microps																	
Eusirus perdentatus		•															
Eusirus propeperdentatus																	
Liouvillea oculata																	
Oradarea tricarinata																	
Oradarea tridentata																	
Oradarea walkeri																	
Paramoera impressicauda									•								
Prostebbingia gracilis																	
Prostebbingia serrata																	
Rhachotropis anoculata			•														
Rhachotropis antarctica	•																
Rhachotropis hunteri							•										
Schraderia gracilis																	
Iphimediidae																	
Echiniphimedia echinata																	
Echiniphimedia hodgsoni																	
Echiniphimedia waegelei																	
Gnathiphimedia mandibularis																	
Gnathiphimedia sexdentata																	
Iphimedia imparilabia																	
Iphimediella cyclogena																	
Iphimediella octodentata																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Crangonidae												
Notocrangon antarcticus	•	•	•		•		•					
Amphipoda												
Ampeliscidae												
Ampelisca anversensis												
Ampelisca barnardi		•			•	•	•					
Ampelisca bransfieldi												
Ampelisca n.sp. 1												
Ampelisca richardsoni	•					▪						
Byblisoides juxtacornis												
Amphilochidae												
Amphilochus cf. *marionis*												
Gitanopsis inaequipes			•									
Ceradocus group (Gammarida)												
Paraceradocus gibber												
Paraceradocus miersii												
Colomastigidae												
Colomastix fissilingua												
Dexaminidae												
Lepechinella drygalskii	•		•									
Polycheria antarctica												
Polycheria nuda												
Epimeriidae												
Epimeria annabellae		•										
Epimeria georgiana	•		•	•	•		•					
Epimeria grandirostris												
Epimeria macrodonta	•	•					•					
Epimeria monodon												
Epimeria oxicarinata												
Epimeria pulchra												
Epimeria robusta	•		•				•					
Epimeria rubrieques							▪					
Epimeria similis		•	•		•	•	•					
Epimeriella truncata			•									
Epimeriella walkeri			•		•							
Eusiridae sensu lato												
Atyloella magellanica												
Atylopsis megalops												
Eusirus cf. *antarcticus*												
Eusirus microps												
Eusirus perdentatus	•	•			•	•	•					
Eusirus propeperdentatus												
Liouvillea oculata			•									
Oradarea tricarinata												
Oradarea tridentata	•											
Oradarea walkeri												
Paramoera impressicauda												
Prostebbingia gracilis												
Prostebbingia serrata												
Rhachotropis anoculata												
Rhachotropis antarctica					•							
Rhachotropis hunteri												
Schraderia gracilis	•											
Iphimediidae												
Echiniphimedia echinata												
Echiniphimedia hodgsoni	•	•	•		•		•					
Echiniphimedia waegelei												
Gnathiphimedia mandibularis												
Gnathiphimedia sexdentata												
Iphimedia imparilabia						•						
Iphimediella cyclogena												
Iphimediella octodentata												

			det.
51	*Iphimediella serrata*	(Schellenberg, 1926)	RAU
52	*Maxilliphimedia longipes*	(Walker, 1906)	RAU
	Ischyroceridae		
53	*Pseudericthonius gaussi*	Schellenberg, 1926	RAU
	Laphystiopsidae		
54	*Prolaphistius isopodops*	K.H. Barnard, 1930	RAU
	Leucotholdae		
55	*Leucothoe spinicarpa* sensu lato	(Abildgaard, 1789)	RAU/DEB
	Lilljeborglidae		
56	*Liljeborgia consanguinea*	Stebbing, 1888	RAU
57	*Liljeborgia georgiana*	Schellenberg, 1931	RAU/DEB
	Lysianassidae sensu lato		
58	*Abyssorchomene charcoti*	Chevreux, 1912	DEB
59	*Abyssorchomene nodimanus*	Walker, 1903	DEB
60	*Abyssorchomene rossi*	(Walker, 1903)	RAU/DEB
61	*Adeliella laticornis*	Nicholls, 1938	DEB
62	*Ambasiopsis tumicornis*	Nicholls, 1938	DEB
63	*Ambasiopsis uncinata*	K.H. Barnard, 1932	DEB
64	*Aristias antarcticus*	Walker, 1906	RAU/DEB
65	*Drummonia sculptidentata*	Ren and Huang, 1991	RAU
66	*Figorella tanidea*	J.L. Barnard, 1962	RAU
67	*Gainella chelata*	Chevreux, 1912	DEB
68	*Hippomedon kergueleni*	(Miers, 1875)	RAU/DEB
69	*Hirondellea antarctica*	(Schellenberg, 1926)	DEB/RAU
70	*Lepidepecreum* cf. *foraminiferum*	Stebbing, 1888	RAU
71	*Orchomenella (Orchomenopsis) acanthura*	(Schellenberg, 1931)	DEB
72	*Orchomenella (Orchomenopsis) pinguides*	(Walker, 1903)	DEB
73	*Orchomenella (Orchomenopsis) rotundifrons*	(K.H. Barnard, 1932)	DEB
74	*Pseudorchomene coatsi*	(Chilton, 1912)	RAU/DEB
75	*Shackletonia robusta*	K.H. Barnard, 1931	DEB
76	*Tryphosella intermedia*	(Schellenberg, 1926)	DEB
77	*Tryphosella murrayi*	(Walker, 1903)	RAU/DEB
78	*Uristes adarei*	(Walker, 1903)	RAU/DEB
79	*Uristes gigas*	Dana, 1849	DEB
80	*Waldeckia obesa*	(Chevreux, 1905)	RAU/DEB
	Melphidippidae		
81	*Melphidippa antarctica*	Schellenberg, 1926	RAU/DEB
82	*Melphisubchela prehenda*	Andres, 1981	RAU
	Ochlesidae		
83	*Antarctodius antarcticus*	(Watling and Holman, 1981)	RAU
	Oedicerotidae		
84	*Oediceroides calmani*	Walker, 1906	RAU/DEB
	Oediceroides n.sp. 1	De Broyer, in prep.	DEB
	Pagetinidae		
85	*Pagetina antarctica*	Andres, 1981	RAU
86	*Pagetina genarum*	K.H. Barnard, 1932	RAU
	Pardaliscidae		
87	*Halicella parasitica*	Schellenberg, 1926	RAU
88	*Halice profundi*	K.H. Barnard, 1932	RAU
89	*Necochea pardella*	J.L. Barnard, 1962	RAU
90	*Pardalisca* cf. *abyssoides*	K.H. Barnard, 1932	RAU
	Phoxocephalidae		
91	*Leptophoxoides molaris*	J.L. Barnard, 1962	RAU
	Pleustidae		
92	*Parepimeria bidentata*	Schellenberg, 1931	DEB
93	*Parepimeria irregularis*	(Schellenberg, 1931)	RAU
94	*Parepimeria major*	K.H. Barnard, 1932	RAU
95	*Parepimeria minor*	Watling and Holman, 1980	RAU
	Podoceridae		
96	*Podocerus septemcarinatus*	Schellenberg, 1926	RAU/DEB
97	*Pseudodulichia antarctica*	Rauschert, 1988	RAU

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Iphimediella serrata				•														
Maxilliphimedia longipes	•																	
Ischyroceridae																		
Pseudericthonius gaussi					•											•	•	
Laphystiopsidae																		
Prolaphistius isopodops																•	•	
Leucotholdae																		
Leucothoe spinicarpa sensu lato					•				•									
Liljeborgiidae																		
Liljeborgia consanguinea			•													•		
Liljeborgia georgiana		•																
Lysianassidae sensu lato																		
Abyssorchomene charcoti					•													
Abyssorchomene nodimanus					•	•												
Abyssorchomene rossi				•														
Adeliella laticornis																		
Ambasiopsis tumicornis																		
Ambasiopsis uncinata					•													
Aristias antarcticus				•	•													
Drummonia sculptidentata																		
Figorella tanidea																		
Gainella chelata					•													
Hippomedon kergueleni									•									
Hirondellea antarctica					•	•	•											
Lepidepecreum cf. *foraminiferum*																		
Orchomenella (Orchomenopsis) acanthura					•	•												
Orchomenella (Orchomenopsis) pinguides					•													
Orchomenella (Orchomenopsis) rotundifrons							•											
Pseudorchomene coatsi				•														
Shackletonia robusta														•				
Tryphosella intermedia																		
Tryphosella murrayi	•	•			•				•									
Uristes adarei					•													
Uristes gigas					•													
Waldeckia obesa					•													
Melphidippidae																		
Melphidippa antarctica			•		•	•	•		•							•	•	•
Melphisubchela prehenda																•	•	
Ochlesidae																		
Antarctodius antarcticus		•																•
Oedicerotidae																		
Oediceroides calmani	•	•			•													
Oediceroides n.sp. 1															•			
Pagetinidae																		
Pagetina antarctica																		
Pagetina genarum																		•
Pardaliscidae																		
Halicella parasitica		•				•										•	•	
Halice profundi																		
Necochea pardella						•												
Pardalisca cf. *abyssoides*																	•	•
Phoxocephalidae																		
Leptophoxoides molaris															•			
Pleustidae																		
Parepimeria bidentata						•												
Parepimeria irregularis					•													
Parepimeria major		•																
Parepimeria minor																		•
Podoceridae																		
Podocerus septemcarinatus																		
Pseudodulichia antarctica																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Iphimediella serrata																	
Maxilliphimedia longipes																	
Ischyroceridae																	
Pseudericthonius gaussi																	
Laphystiopsidae																	
Prolaphistius isopodops																	
Leucotholdae																	
Leucothoe spinicarpa sensu lato					•			•	•	•							
Liljeborgiidae																	
Liljeborgia consanguinea		•	•	•	•												
Liljeborgia georgiana																	
Lysianassidae sensu lato																	
Abyssorchomene charcoti																	
Abyssorchomene nodimanus																	
Abyssorchomene rossi																	
Adeliella laticornis																	
Ambasiopsis tumicornis																	
Ambasiopsis uncinata																	
Aristias antarcticus																	
Drummonia sculptidentata																	
Figorella tanidea																	
Gainella chelata																	
Hippomedon kergueleni																	
Hirondellea antarctica																	
Lepidepecreum cf. *foraminiferum*																	
Orchomenella (Orchomenopsis) acanthura																	
Orchomenella (Orchomenopsis) pinguides																	
Orchomenella (Orchomenopsis) rotundifrons																	
Pseudorchomene coatsi																	
Shackletonia robusta																	
Tryphosella intermedia																	
Tryphosella murrayi																	
Uristes adarei									•								
Uristes gigas																	
Waldeckia obesa																	
Melphidippidae																	
Melphidippa antarctica	•	•						•	•								
Melphisubchela prehenda																	
Ochlesidae																	
Antarctodius antarcticus																	
Oedicerotidae																	
Oediceroides calmani																	
Oediceroides n.sp. 1																	
Pagetinidae																	
Pagetina antarctica																	
Pagetina genarum	•																
Pardaliscidae																	
Halicella parasitica								•									
Halice profundi					•												
Necochea pardella																	
Pardalisca cf. *abyssoides*																	
Phoxocephalidae																	
Leptophoxoides molaris			•														
Pleustidae																	
Parepimeria bidentata																	
Parepimeria irregularis																	
Parepimeria major																	
Parepimeria minor	•				•												
Podoceridae																	
Podocerus septemcarinatus																	
Pseudodulichia antarctica					•												

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Iphimediella serrata												
Maxilliphimedia longipes												
Ischyroceridae												
Pseudericthonius gaussi												
Laphystiopsidae												
Prolaphistius isopodops												
Leucothoidae												
Leucothoe spinicarpa sensu lato	•											
Liljeborgiidae												
Liljeborgia consanguinea			•									
Liljeborgia georgiana												
Lysianassidae sensu lato												
Abyssorchomene charcoti					•							
Abyssorchomene nodimanus												
Abyssorchomene rossi												
Adeliella laticornis			•									
Ambasiopsis tumicornis			•									
Ambasiopsis uncinata							•					
Aristias antarcticus	•		•									
Drummonia sculptidentata						•						
Figorella tanidea					•							
Gainella chelata												
Hippomedon kergueleni												
Hirondellea antarctica						•						
Lepidepecreum cf. *foraminiferum*	•											
Orchomenella (Orchomenopsis) acanthura						•						
Orchomenella (Orchomenopsis) pinguides												
Orchomenella (Orchomenopsis) rotundifrons												
Pseudorchomene coatsi												
Shackletonia robusta												
Tryphosella intermedia					•							
Tryphosella murrayi						•	•					
Uristes adarei		•			•	•						
Uristes gigas		•			•		•					
Waldeckia obesa	•	•	•		•	•	•					
Melphidippidae												
Melphidippa antarctica	•		•				•					
Melphisubchela prehenda												
Ochlesidae												
Antarctodius antarcticus												
Oedicerotidae												
Oediceroides calmani	•	•				•	•					
Oediceroides n.sp. 1												
Pagetinidae												
Pagetina antarctica						•						
Pagetina genarum												
Pardaliscidae												
Halicella parasitica			•									
Halice profundi			•									
Necochea pardella												
Pardalisca cf. *abyssoides*												
Phoxocephalidae												
Leptophoxoides molaris												
Pleustidae												
Parepimeria bidentata												
Parepimeria irregularis	•											
Parepimeria major												
Parepimeria minor												
Podoceridae												
Podocerus septemcarinatus			•									
Pseudodulichia antarctica												

			det.
	Pseudamphilochidae		
98	*Pseudamphilochus shoemakeri*	Schellenberg, 1931	RAU
	Sebidae		
99	*Seba antarctica*	Walker, 1906	RAU
100	*Seba dubia*	Schellenberg, 1926	RAU
	Stegocephalidae		
101	*Andaniotes linearis*	K.H. Barnard, 1932	DEB
102	*Andaniotes pseudolinearis*	Berge, in press	DEB
103	*Stegosoladidus antarcticus*	Berge, in press	DEB
104	*Stegosoladidus debroyeri*	Berge, in press	DEB
	Stenothoidae		
105	*Thaumatelson herdmani*	Walker, 1906	RAU/DEB
	Stilipedidae		
106	*Alexandrella dentata*	Chevreux, 1912	RAU
107	*Alexandrella mixta*	(Nicholls, 1938)	DEB
108	*Bathypanoploea schellenbergi*	Holman and Watling, 1983	DEB
	Synopiidae		
109	*Syrrhoe nodulosa*	K.H. Barnard, 1932	RAU
110	*Syrrhoe psychrophila*	Monod, 1926	RAU
111	*Syrrhoites anaticauda*	K.H. Barnard, 1930	RAU
112	*Tiron antarcticus*	K.H. Barnard,1932	RAU
	Caprellidea		
	Phtisicidae		
113	*Aeginoides gaussi*	Schellenberg, 1926	VAS
114	*Caprellinoides antarcticus*	Schellenberg, 1926	RAU
115	*Caprellinoides* cf. *spinosus*	K.H. Barnard, 1930	RAU
116	*Caprellinoides elegans*	K.H. Barnard, 1932	RAU
	Isopoda		
	Arcturidae		
1	*Antarcturus hempeli*	Wägele, 1988	HEL
2	*Antarcturus horridus*	Tattersall, 1921	HEL
3	*Antarcturus spinacoronatus*	Schultz, 1978	HEL
4	*Chaetarcturus bovinus*	(Brandt and Wägele, 1988)	HEL
	Chaetarcturus n.sp.	Held, in prep.	HEL
5	*Dolichiscus diana*	Schultz, 1981	HEL
6	*Dolichiscus hiemalis*	(Hodgson, 1910)	HEL
7	*Dolichiscus meridionalis*	(Hodgson, 1910)	HEL
	Chaetiliidae		
8	*Glyptonotus antarcticus*	Eights, 1852	HEL
	Gnathiidae		
9	*Gnathia calva*	Vanhöffen, 1914	HEL
	Serolidae		
10	*Ceratoserolis meridionalis*	(Vanhöffen, 1914)	HEL
11	*Ceratoserolis pasternaki*	(Kussakin, 1967)	HEL
12	*Ceratoserolis cornuta dinae*	(Held, in prep.)	HEL
13	*Cuspidoserolis johnstoni*	(Hale, 1952)	HEL
14	*Cuspidoserolis luethjei*	(Wägele, 1986)	HEL
15	*Septemserolis glacialis*	(Tattersall, 1921)	HEL
16	*Serolella bouvieri*	(Richardson, 1906)	HEL
	Euphausiacea		
	Euphausiidae		
1	*Euphausia superba*	Dana, 1852	PET
2	*Euphausia crystallorophias*	Holt and Tattersall, 1906	PET
3	*Euphausia frigida*	Hansen, 1911	PET
	ECHINODERMATA		
	ASTEROIDEA		
	Phanerozonia		
	Astropectinidae		
1	*Bathybiaster loripes*	Sladen, 1889	GRU
1	*Bathybiaster loripes obesus*	Sladen, 1889	GRU
2	*Lepthychaster accrescens*	(Koehler, 1920)	GRU

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Pseudamphilochidae																		
Pseudamphilochus shoemakeri																•		
Sebidae																		
Seba antarctica					•											•		
Seba dubia																		
Stegocephalidae																		
Andaniotes linearis																		
Andaniotes pseudolinearis																		
Stegosoladidus antarcticus																		
Stegosoladidus debroyeri					•													
Stenotholdae																		
Thaumatelson herdmani																■		
Stillipedidae																		
Alexandrella dentata				•														
Alexandrella mixta					•													
Bathypanoploea schellenbergi	•			•														
Synoplidae																		
Syrrhoe nodulosa																■		■
Syrrhoe psychrophila		•		•	•											•	•	•
Syrrhoites anaticauda	•			•	•											•		
Tiron antarcticus																•		
Caprellidea																		
Phtisicidae																		
Aeginoides gaussi																		
Caprellinoides antarcticus																		•
Caprellinoides cf. *spinosus*																		•
Caprellinoides elegans		•			•	•												
Isopoda																		
Arcturidae																		
Antarcturus hempeli													•					
Antarcturus horridus										•								
Antarcturus spinacoronatus	■												•	•				
Chaetarcturus bovinus						•												
Chaetarcturus n.sp.																		
Dolichiscus diana																		
Dolichiscus hiemalis	•				■													
Dolichiscus meridionalis				•		•												
Chaetilidae																		
Glyptonotus antarcticus	•	•		•		•			•	•							•	
Gnathidae																		
Gnathia calva					•												•	
Serolidae																		
Ceratoserolis meridionalis				•		•												
Ceratoserolis pasternaki												•						
Ceratoserolis cornuta dinae		•														•		
Cuspidoserolis johnstoni															•			
Cuspidoserolis luethjei	•			•												•		
Septemserolis glacialis						•			•									
Serolella bouvieri																		
Euphausiacea																		
Euphausiidae																		
Euphausia superba				•						•								
Euphausia crystallorophias				•				•										
Euphausia frigida																		
ECHINODERMATA																		
ASTEROIDEA																		
Phanerozonia																		
Astropectinidae																		
Bathyblaster loripes																		
Bathyblaster loripes obesus	•			•														
Lepthychaster accrescens	•	•		•		•	•											

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Pseudamphilochidae																	
Pseudamphilochus shoemakeri																	
Sebidae																	
Seba antarctica										•							
Seba dubia					•			•		•							
Stegocephalidae																	
Andaniotes linearis																	
Andaniotes pseudolinearis																	
Stegosoladidus antarcticus																	
Stegosoladidus debroyeri																	
Stenothoidae																	
Thaumatelson herdmani																	
Stilipedidae																	
Alexandrella dentata																	
Alexandrella mixta																	
Bathypanoploea schellenbergi																	
Synopiidae																	
Syrrhoe nodulosa	•				•												
Syrrhoe psychrophila	•								•								
Syrrholtes anaticauda		•			•												
Tiron antarcticus				•													
Caprellidea																	
Phtisicidae																	
Aeginoides gaussi	•																
Caprellinoides antarcticus																	
Caprellinoides cf. *spinosus*					•												
Caprellinoides elegans	•																
Isopoda																	
Arcturidae																	
Antarcturus hempeli																	
Antarcturus horridus																	
Antarcturus spinacoronatus																	
Chaetarcturus bovinus					•												
Chaetarcturus n.sp.			•														
Dolichiscus diana																	
Dolichiscus hiemalis																	
Dolichiscus meridionalis																	
Chaetiliidae																	
Glyptonotus antarcticus																	
Gnathiidae																	
Gnathia calva																	
Serolidae																	
Ceratoserolis meridionalis																	
Ceratoserolis pasternaki																	
Ceratoserolis cornuta dinae																	
Cuspidoserolis johnstoni			•														
Cuspidoserolis luethjei																	
Septemserolis glacialis																	
Serolella bouvieri																	
Euphausiacea																	
Euphausiidae																	
Euphausia superba																	
Euphausia crystallorophias																	
Euphausia frigida																	
ECHINODERMATA																	
ASTEROIDEA																	
Phanerozonia																	
Astropectinidae																	
Bathybiaster loripes																	
Bathybiaster loripes obesus																	
Lepthychaster accrescens																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Pseudamphilochidae												
Pseudamphilochus shoemakeri												
Sebidae												
Seba antarctica												
Seba dubia												
Stegocephalidae												
Andaniotes linearis	•				•							
Andaniotes pseudolinearis	•					▪						
Stegosoladidus antarcticus	•											
Stegosoladidus debroyeri												
Stenotholdae												
Thaumatelson herdmani												
Stilipedidae												
Alexandrella dentata												
Alexandrella mixta	•	•										
Bathypanoploea schellenbergi		•			•	•	•					
Synopiidae												
Syrrhoe nodulosa	•		•									
Syrrhoe psychrophila	•		•									
Syrrholtes anaticauda	•		•				•					
Tiron antarcticus			•									
Caprellidea												
Phtisicidae												
Aeginoides gaussi												
Caprellinoides antarcticus												
Caprellinoides cf. *spinosus*							•					
Caprellinoides elegans			•									
Isopoda												
Arcturidae												
Antarcturus hempeli												
Antarcturus horridus												
Antarcturus spinacoronatus		•										
Chaetarcturus bovinus		•										
Chaetarcturus n.sp.												
Dolichiscus diana		•										
Dolichiscus hiemalis												
Dolichiscus meridionalis							•					
Chaetiliidae												
Glyptonotus antarcticus	•						•					
Gnathiidae												
Gnathia calva	•	•										
Serolidae												
Ceratoserolis meridionalis											•	•
Ceratoserolis pasternaki					•							
Ceratoserolis cornuta dinae	•	•			•		•					
Cuspidoserolis johnstoni				•								
Cuspidoserolis luethjei	•	•	•		•		•					
Septemserolis glacialis												
Serolella bouvieri	•	•					•					
Euphausiacea												
Euphausiidae												
Euphausia superba					•		•			•		
Euphausia crystallorophias										•		
Euphausia frigida										▪		
ECHINODERMATA												
ASTEROIDEA												
Phanerozonia												
Astropectinidae												
Bathybiaster loripes						•						
Bathybiaster loripes obesus												
Lepthychaster accrescens	▪			•	•	•						

			det.
3	*Lepthychaster flexuosus*	(Koehler, 1920)	GRU
4	*Macroptychaster magnificus*	(Koehler, 1912)	GRU
5	*Psilaster charcoti*	(Koehler, 1906)	GRU
	Benthopectinidae		
6	*Luidiaster gerlachei*	(Ludwig, 1903)	GRU
	Odontasteridae		
7	*Acodontaster capitatus*	(Koehler, 1912)	GRU
8	*Acodontaster conspicuus*	(Koehler, 1912)	GRU
9	*Acodontaster hodgsoni*	(Bell, 1908)	GRU
9	*Acodontaster hodgsoni stellatus*	(Koehler, 1920)	GRU
10	*Acodontaster waiteri*	(Koehler, 1920)	GRU
11	*Acodontaster elongatus*	(Sladen, 1889)	GRU
12	*Odontaster meridionalis*	(Smith, 1876)	GRU
13	*Odontaster validus*	Koehler, 1906	GRU
14	*Odontaster* cf. *penicillatus*	(Philippi, 1870)	GRU
	Goniasteridae		
15	*Chitonaster johanae*	Koehler, 1908	GRU
16	*Notioceramus anomalus*	Fisher, 1940	GRU
17	*Pergamaster synaptorius*	Fisher, 1940	GRU
18	*Pergamaster incertus*	(Bell, 1908)	GRU
	Ganeriidae		
19	*Cycetra verrucosa*	(Philippi, 1875)	GRU
19	*Cycetra verrucosa mawsoni*	A.M. Clark, 1962	GRU
	Asterinidae		
20	*Anseropoda antarctica*	Fisher, 1940	GRU
21	*Kampylaster incurvatus*	Koehler, 1920	GRU
	Poraniidae		
22	*Porania antarctica*	Smith, 1876	GRU
	Echinasteridae		
23	*Henricia* cf. *pagenstecheri*	(Studer, 1885)	GRU
24	*Henricia smilax*	(Koehler, 1920)	GRU
25	*Henricia parva*	(Koehler, 1912)	GRU
26	*Rhopiella hirsuta*	(Koehler, 1920)	GRU
26	*Rhopiella hirsuta hirsuta*	(Koehler, 1920)	GRU
	Spinulosa		
27	*Cuenotaster involutus*	(Koehler, 1940)	GRU
28	*Lophaster densus*	Fisher, 1940	GRU
29	*Lophaster gaini*	Koehler, 1912	GRU
30	*Paralophaster antarcticus*	(Koehler, 1912)	GRU
31	*Paralophaster godfroyi*	(Koehler, 1912)	GRU
31	*Paralophaster godfroyi asperatus*	(Koehler, 1912)	GRU
32	*Solaster regularis*	Sladen, 1889	GRU
32	*Solaster regularis subarcuatus*	Sladen, 1899	GRU
	Korethrasteridae		
33	*Remaster gourdoni*	Koehler, 1912	GRU
34	*Peribolaster macleani*	Koehler, 1920	GRU
	Pterasteridae		
35	*Hymenaster perspicuus*	Ludwig, 1903	GRU
36	*Pteraster stellifer*	Sladen, 1882	GRU
36	*Pteraster stellifer stellifer*	Koehler, 1882	GRU
	Forcipulata		
	Asteriidae		
37	*Notasterias bongraini*	(Koehler, 1912)	GRU
38	*Notasterias haswelli*	Koehler, 1920	GRU
39	*Notasterias armata*	Koehler, 1911	GRU
40	*Pedicellaster hypernotius*	Sladen, 1889	GRU
41	*Psalidaster mordax*	Fisher, 1940	GRU
	OPHIUROIDEA		
	Euryalae		
	Gorgonocephalidae		
1	*Astrochlamys bruneus*	Koehler, 1912	SMI
2	*Astrochlamys sol*	Mortensen, 1936	SMI

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Lepthychaster flexuosus																		
Macroptychaster magnificus					•													
Psilaster charcoti	•		•	•								•	•					
Benthopectinidae																		
Luidiaster gerlachei	•								•									
Odontasteridae																		
Acodontaster capitatus	•			•														
Acodontaster conspicuus		•		•														
Acodontaster hodgsoni	•	•		•	•													
Acodontaster hodgsoni stellatus							•											
Acodontaster walteri																		
Acodontaster elongatus									•									
Odontaster meridionalis																•		
Odontaster validus				•														
Odontaster cf. *penicillatus*									•									
Goniasteridae																		
Chitonaster johanae	•			•					•			•	•					
Notioceramus anomalus	•								•									
Pergamaster synaptorius																		
Pergamaster incertus									•									
Ganeriidae																		
Cycetra verrucosa	•				•					•						•		
Cycetra verrucosa mawsoni		•		•					•								•	
Asterinidae																		
Anseropoda antarctica									•								•	
Kampylaster incurvatus									•								•	
Poranilidae																		
Porania antarctica	•			•	•		•		•	•		•	•			•	•	
Echinasteridae																		
Henricia cf. *pagenstecheri*																		
Henricia smilax				•	•		•	•	•					•			•	
Henricia parva									•									
Rhopiella hirsuta	•			•														
Rhopiella hirsuta hirsuta																		
Spinulosa																		
Cuenotaster involutus	•			•	•				•					•				
Lophaster densus							•							•				
Lophaster gaini	•	•																
Paralophaster antarcticus				•				•	•				•	•				
Paralophaster godfroyi	•	•		•													•	
Paralophaster godfroyi asperatus				•			•											
Solaster regularis																		
Solaster regularis subarcuatus		•														•		
Korethrasteridae																		
Remaster gourdoni	•			•					•			•	•	•			•	
Peribolaster macleani		•		•					•	•		•		•				
Pterasteridae																		
Hymenaster perspicuus																		
Pteraster stellifer									•	•							•	
Pteraster stellifer stellifer																		
Forcipulata																		
Asteriidae																		
Notasterias bongraini		•		•			•		•			•			•		•	
Notasterias haswelli		•		•	•		•											
Notasterias armata																		
Pedicellaster hypernotius				•								•						
Psalidaster mordax						•												
OPHIUROIDEA																		
Euryalae																		
Gorgonocephalidae																		
Astrochlamys bruneus	•						•											
Astrochlamys sol											•						•	

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Lepthychaster flexuosus																	
Macroptychaster magnificus																	
Psilaster charcoti																	
Benthopectinidae																	
Luidiaster gerlachei																	
Odontasteridae																	
Acodontaster capitatus																	
Acodontaster conspicuus						•											
Acodontaster hodgsoni																	
Acodontaster hodgsoni stellatus																	
Acodontaster waiteri																	
Acodontaster elongatus																	
Odontaster meridionalis	•																
Odontaster validus	•																
Odontaster cf. *penicillatus*																	
Goniasteridae																	
Chitonaster johanae																	
Notioceramus anomalus																	
Pergamaster synaptorius																	
Pergamaster incertus																	
Ganerlidae																	
Cycetra verrucosa	•																
Cycetra verrucosa mawsoni																	
Asterinidae																	
Anseropoda antarctica																	
Kampylaster incurvatus																	
Poraniidae																	
Porania antarctica	•																
Echinasteridae																	
Henricia cf. *pagenstecheri*																	
Henricia smilax																	
Henricia parva																	
Rhopiella hirsuta																	
Rhopiella hirsuta hirsuta																	
Spinulosa																	
Cuenotaster involutus																	
Lophaster densus																	
Lophaster gaini																	
Paralophaster antarcticus																	
Paralophaster godfroyi	•																
Paralophaster godfroyi asperatus																	
Solaster regularis																	
Solaster regularis subarcuatus																	
Korethrasteridae																	
Remaster gourdoni																	
Peribolaster macleani																	
Pterasteridae																	
Hymenaster perspicuus																	
Pteraster stellifer																	
Pteraster stellifer stellifer																	
Forcipulata																	
Asteriidae																	
Notasterias bongraini																	
Notasterias haswelli																	
Notasterias armata																	
Pedicellaster hypernotius																	
Psalidaster mordax																	
OPHIUROIDEA																	
Euryalae																	
Gorgonocephalidae																	
Astrochlamys bruneus																	
Astrochlamys sol																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Lepthychaster flexuosus											•	
Macroptychaster magnificus												
Psilaster charcoti					•							
Benthopectinidae												
Luidiaster gerlachei					•							
Odontasteridae												
Acodontaster capitatus				•		•						
Acodontaster conspicuus												
Acodontaster hodgsoni						•						
Acodontaster hodgsoni stellatus												
Acodontaster walteri	•					•	•					
Acodontaster elongatus												
Odontaster meridionalis												
Odontaster validus												
Odontaster cf. *penicillatus*												
Goniasteridae												
Chitonaster johanae												
Notioceramus anomalus				•	•						•	
Pergamaster synaptorius				•								
Pergamaster incertus												
Ganeridae												
Cycetra verrucosa						•						
Cycetra verrucosa mawsoni				•	•							
Asterinidae												
Anseropoda antarctica				•								
Kampylaster incurvatus												
Poraniidae												
Porania antarctica				•	•	•						
Echinasteridae												
Henricia cf. *pagenstecheri*						•						
Henricia smilax				•	•							
Henricia parva												
Rhopiella hirsuta												
Rhopiella hirsuta hirsuta				•								
Spinulosa												
Cuenotaster involutus					•	•						
Lophaster densus					•							
Lophaster gaini												
Paralophaster antarcticus				•								
Paralophaster godfroyi				•								
Paralophaster godfroyi asperatus												
Solaster regularis						•						
Solaster regularis subarcuatus				•								
Korethrasteridae												
Remaster gourdoni					•							
Peribolaster macleani				•	•							
Pterasteridae												
Hymenaster perspicuus											•	
Pteraster stellifer			•		•							
Pteraster stellifer stellifer				•								
Forcipulata												
Asteriidae												
Notasterias bongraini				•	•							
Notasterias haswelli					•							
Notasterias armata					•							
Pedicellaster hypernotius												
Psalidaster mordax												
OPHIUROIDEA												
Euryalae												
Gorgonocephalidae												
Astrochlamys bruneus		•	•				•					
Astrochlamys sol												

det. _____

3	*Astrotoma agassizii*	Lyman, 1875	SMI
	Ophiurida		
	Amphiuridae		
4	*Amphioplus peregrinator*	(Koehler, 1912)	SMI
5	*Amphiura joubini*	Koehler, 1912	SMI
6	*Amphiura angularis*	Lyman, 1879	SMI
7	*Amphiura belgicae*	Koehler, 1900	SMI
8	*Amphiura deficiens*	Koehler, 1922	SMI
9	*Amphiura proposita*	Koehler, 1922	SMI
	Ophiuridae		
10	*Ophioceres incipiens*	(Koehler, 1922)	SMI
11	*Ophiocten megaloplax*	Koehler, 1901	SMI
12	*Ophiocten dubium*	(Koehler, 1901)	SMI
13	*Ophionotus victoriae*	Bell, 1902	SMI
14	*Ophionotus hexactis*	(Smith, 1876)	SMI
15	*Ophiosteira antarctica*	Bell, 1902	SMI
16	*Ophiosteira echinulata*	Koehler, 1922	SMI
17	*Ophiosteira rotundata*	Koehler, 1922	SMI
18	*Ophiura rouchi*	(Koehler, 1912)	SMI
19	*Ophiuroglypha carinifera*	(Koehler, 1901)	SMI
20	*Ophiurolepis brevirima*	Mortensen, 1936	SMI
21	*Ophiurolepis gelida*	(Koehler, 1901)	SMI
22	*Ophiurolepis martensi*	(Studer, 1885)	SMI
23	*Theodoria relegata*	(Koehler, 1922)	SMI
	Ophiacanthidae		
24	*Ophiacantha antarctica*	Koehler, 1901	SMI
25	*Ophiacantha vivipara*	I jungman, 1870	SMI
26	*Ophiacantha pentactis*	Mortensen, 1936	SMI
27	*Ophiomitrella ingrata*	Koehler, 1908	SMI
28	*Ophiolimna antarctica*	(Lyman, 1882)	SMI
29	*Ophiosparte gigas*	Koehler, 1922	SMI
30	*Ophiocamax gigas*	Koehler, 1901	SMI
	Ophioleucidae		
31	*Ophioleuce regulare*	(Koehler, 1901)	SMI
32	*Ophioperla koehleri*	(Bell, 1908)	SMI
	HEMICHORDATA		
	PTEROBRANCHIA		
	Cephalodiscida		
	Cephalodiscidae		
1	*Cephalodiscus hodgsoni* forma A	Ridewood, 1907	STA
1	*Cephalodiscus hodgsoni* forma B	Ridewood, 1907	STA
2	*Cephalodiscus nigrescens*	Lankester, 1905	STA
3	*Cephalodiscus australiensis*	Johnston and Murihead, 1951	STA
	CHORDATA		
	TUNICATA		
	Ascidiacea		
	Aplousobranchiata		
	Polyclinidae		
1	*Synoicium adareanum*	(Herdman, 1902)	ROM
2	*Aplidium variabile*	(Herdman, 1886)	ROM
3	*Aplidium falklandicum*	Millar, 1960	ROM
4	*Aplidium fuegiense*	Cunnigham, 1871	ROM
	Polycitoridae		
5	*Cystodytes antarcticus*	(Sluiter, 1912)	ROM
	Didemnidae		
6	*Didemnum studeri*	Hartmeyer, 1911	ROM
7	*Diplosoma longinquum*	(Sluiter, 1912)	ROM
8	*Diplosoma antarcticum*	Kott, 1969	ROM

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Astrotoma agassizii	•	•	•		•		•	•									•	
Ophiurida																		
Amphiuridae																		
Amphioplus peregrinator					•													
Amphiura joubini	•		•									•						
Amphiura angularis																•		
Amphiura belgicae	•	•		•	•		•										•	
Amphiura deficiens																		
Amphiura proposita	•	•	•	•	•		•					•	•			•		
Ophiuridae																		
Ophioceres incipiens	•			•	•	•	•	•			•	•					•	
Ophiocten megaloplax	•												•					
Ophiocten dubium	•																•	
Ophionotus victoriae	•	•	•	•	•		•	•				•	•			•		
Ophionotus hexactis						•												
Ophiosteira antarctica				•								•						
Ophiosteira echinulata					•	•	•											
Ophiosteira rotundata	•																	
Ophiura rouchi				•		•	•		•							•		
Ophiuroglypha carinifera		•		•	•		•		•			•		•		•	•	
Ophiurolepis brevirima	•		•	•	•	•	•		•				•					
Ophiurolepis gelida	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	
Ophiurolepis martensi	•																	
Theodoria relegata	•		•													•		
Ophiacanthidae																		
Ophiacantha antarctica	•	•	•	•	•	•	•	•				•	•	•		•		
Ophiacantha vivipara	•				•							•	•				•	
Ophiacantha pentactis	•		•													•		
Ophiomitrella ingrata											•							
Ophiolimna antarctica	•			•	•								•				•	
Ophiosparte gigas	•	•	•	•			•						•			•		
Ophiocamax gigas																		
Ophioleucidae																		
Ophioleuce regulare	•																•	
Ophioperla koehleri	•	•	•	•								•	•					
HEMICHORDATA																		
PTEROBRANCHIA																		
Cephalodiscida																		
Cephalodiscidae																		
Cephalodiscus hodgsoni forma A			•	•								•	•	•		•		
Cephalodiscus hodgsoni forma B	•		•		•	•			•	•		•	•					
Cephalodiscus nigrescens	•	•	•	•		•		•	•	•		•	•	•		•		
Cephalodiscus australiensis								•		•								
CHORDATA																		
TUNICATA																		
Ascidiacea																		
Aplousobranchiata																		
Polyclinidae																		
Synoicium adareanum	•	•		•	•	•	•		•			•				•		
Aplidium variabile				•		•												
Aplidium falklandicum																		
Aplidium fuegiense																		
Polycitoridae																		
Cystodytes antarcticus						•												
Didemnidae																		
Didemnum studeri	•	•	•	•	•	•	•		•	•							•	
Diplosoma longinquum																		
Diplosoma antarcticum																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Astrotoma agassizii																	
Ophiurida																	
Amphiuridae																	
Amphioplus peregrinator																	
Amphiura joubini																	
Amphiura angularis																	
Amphiura belgicae																	
Amphiura deficiens		•															
Amphiura proposita		•															
Ophiuridae																	
Ophioceres incipiens										•							
Ophiocten megaloplax		•															
Ophiocten dubium																	
Ophionotus victoriae	•	•															
Ophionotus hexactis																	
Ophiosteira antarctica																	
Ophiosteira echinulata	•																
Ophiosteira rotundata																	
Ophiura rouchi	•	•								•							
Ophiuroglypha carinifera																	
Ophiurolepis brevirima		•															
Ophiurolepis gelida	•	•															
Ophiurolepis martensi																	
Theodoria relegata																	
Ophiacanthidae																	
Ophiacantha antarctica	•	•								•							
Ophiacantha vivipara		•															
Ophiacantha pentactis																	
Ophiomitrella ingrata																	
Ophiolimna antarctica		•															
Ophiosparte gigas						•											
Ophiocamax gigas																	
Ophioleucidae																	
Ophioleuce regulare																	
Ophioperla koehleri																	
HEMICHORDATA																	
PTEROBRANCHIA																	
Cephalodiscida																	
Cephalodiscidae																	
Cephalodiscus hodgsoni forma A										•							
Cephalodiscus hodgsoni forma B	•				•												
Cephalodiscus nigrescens					•					•							
Cephalodiscus australiensis																	
CHORDATA																	
TUNICATA																	
Ascidiacea																	
Aplousobranchiata																	
Polyclinidae																	
Synoicium adareanum										•							
Aplidium variabile																	
Aplidium falklandicum																	
Aplidium fuegiense																	
Polycitoridae																	
Cystodytes antarcticus																	
Didemnidae																	
Didemnum studeri										•							
Diplosoma longinquum																	
Diplosoma antarcticum																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Astrotoma agassizii						•	•					
Ophiurida												
Amphiuridae												
Amphioplus peregrinator												
Amphiura joubini												
Amphiura angularis												
Amphiura belgicae	•	•		•		•	•					
Amphiura deficiens												
Amphiura proposita												
Ophiuridae												
Ophioceres incipiens	•	•		•	•	•	•					
Ophiocten megaloplax												
Ophiocten dubium			•		•		•				•	•
Ophionotus victoriae	•	•	•	•	•		•				•	•
Ophionotus hexactis												
Ophiosteira antarctica												
Ophiosteira echinulata					•		•					
Ophiosteira rotundata	•	•	•	•			•					
Ophiura rouchi												
Ophiuroglypha carinifera	•		•		•	•						
Ophiurolepis brevirima		•			•		•					
Ophiurolepis gelida	•	•	•		•	•	•					
Ophiurolepis martensi												
Theodoria relegata	•	•										
Ophiacanthidae												
Ophiacantha antarctica	•	•	•	•	•	•	•				•	
Ophiacantha vivipara	•	•	•	•	•	•	•					
Ophiacantha pentactis			•		•		•					
Ophiomitrella ingrata												
Ophiolimna antarctica			•									
Ophiosparte gigas												
Ophiocamax gigas				•		•						•
Ophioleucidae												
Ophioleuce regulare			•	•								
Ophioperla koehleri	•	•	•	•	•	•	•					
HEMICHORDATA												
PTEROBRANCHIA												
Cephalodiscida												
Cephalodiscidae												
Cephalodiscus hodgsoni forma A					•		•					
Cephalodiscus hodgsoni forma B					•							
Cephalodiscus nigrescens	•	•	•		•		•					
Cephalodiscus australiensis							•					
CHORDATA												
TUNICATA												
Ascidiacea												
Aplousobranchiata												
Polyclinidae												
Synoicium adareanum	•	•	•	•		•	•					
Aplidium variabile												
Aplidium falklandicum						•						
Aplidium fueglense							•					
Polycitoridae												
Cystodytes antarcticus											•	
Didemnidae												
Didemnum studeri	•	•	•		•	•	•					
Diplosoma longinquum	•											
Diplosoma antarcticum	•											

			det.
	Phlebobranchiata		
	Cionidae		
9	*Ciona intestinalis*	(Linnaeus, 1767)	ROM
	Ascidiidae		
10	*Ascidia translucida*	(Herdman, 1910)	ROM
11	*Ascidia meridionalis*	Herdman, 1880	ROM
12	*Ascidia challengeri*	(Herdman, 1882)	ROM
	Stolidobranchiata		
	Styelidae		
13	*Cnemidocarpa verrucosa*	(Lesson, 1830)	ROM
	Pyuridae		
14	*Pyura discoveryi*	(Herdman, 1910)	ROM
15	*Pyura setosa*	(Sluiter, 1905)	ROM
16	*Pyura georgiana*	(Michaelsen, 1898)	ROM
17	*Pyura squamata*	Hartmeyer, 1911	ROM
18	*Pyura bouvetensis*	Millar, 1960	ROM
19	*Pyura vittata*	(Stimpson, 1851)	ROM
20	*Pyura legumen*	(Lesson, 1830)	ROM
21	*Bathypera splendens*	Michaelsen, 1904	ROM
	Molgulidae		
22	*Molgula setigera*	Arnback, 1938	ROM
23	*Molgula falsensis*	Millar, 1955	ROM
24	*Eugyra kerguelensis*	Herdman, 1881	ROM
	VERTEBRATA		
	Pisces		
	Nototheniidae		
1	*Trematomus eulepidotus*	Regan, 1914	•VO+BS, xBG+MN
2	*Trematomus hansoni*	Boulenger, 1902	•VO+BS, xBG+MN
3	*Trematomus lepidorhinus*	Pappenheim, 1911	•VO+BS, xBG+MN
4	*Trematomus pennellii*	(Regan, 1914)	•VO+BS, xBG+MN
5	*Trematomus scotti*	(Boulenger, 1907)	•VO+BS, xBG+MN
6	*Trematomus loennbergii*	Regan, 1913	•VO+BS, xBG+MN
7	*Trematomus* cf. *bernacchii*	Boulenger, 1902	•VO+BS, xBG+MN
8	*Trematomus* cf. *nicolai*	(Boulenger, 1902)	xBG+MN
9	*Pleuragramma antarcticum*	Boulenger, 1902	•VO+BS, xBG+MN
10	*Aethotaxis mitopteryx*	DeWitt, 1962	•VO+BS, xBG+MN
11	*Dissostichus mawsoni*	Norman, 1937	xBG+MN
12	*Cryothenia* cf. *peninsulae*	Daniels, 1981	xBG+MN
	Artedidraconidae		
13	*Artedidraco orianae*	Regan, 1914	•VO+BS, xBG+MN
14	*Artedidraco loennbergi*	Roule, 1913	•VO+BS, xBG+MN
15	*Artedidraco skottsbergi*	Lönnberg, 1905	•VO+BS, xBG+MN
16	*Artedidraco shackletoni*	Waite, 1911	xBG+MN
17	*Dolloidraco longedorsalis*	Roule, 1913	•VO+BS, xBG+MN
18	*Histiodraco velifer*	(Regan, 1914)	•VO+BS, xBG+MN
19	*Pogonophryne marmorata*	Norman, 1938	•VO+BS, xBG+MN
20	*Pogonophryne* cf. *permitini*	Andriashev, 1967	xBG+MN
21	*Pogonophryne* cf. *barsukovi*	Andriashev, 1967	xBG+MN
22	*Pogonophryne* cf. *scotti*	Regan, 1914	xBG+MN
23	*Pogonophryne lanceobarbata*	Eakin, 1987	xBG+MN
24	*Pogonophryne* cf. *macropogon*	Eakin, 1981	xBG+MN
25	*Pogonophryne phyllopogon*	Andriashev, 1967	xBG+MN
26	*Pogonophryne* cf. *albipinna*	Eakin, 1981	xBG+MN
27	*Pogonophryne ventrimaculata*	Eakin, 1987	xBG+MN
	Bathydraconidae		
28	*Gymnodraco acuticeps*	Boulenger, 1902	•VO+BS, xBG+MN
29	*Gerlachea australis*	Dollo, 1900	•VO+BS, xBG+MN
30	*Racovitzia glacialis*	Dollo, 1900	•VO+BS, xBG+MN
31	*Prionodraco evansii*	Regan, 1914	•VO+BS, xBG+MN
32	*Akrotaxis nudiceps*	(Waite, 1916)	•VO+BS
33	*Cygnodraco mawsoni*	Waite, 1916	•VO+BS, xBG+MN
34	*Vomeridens infuscipinnis*	(DeWitt, 1964)	•VO+BS, xBG+MN

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Phlebobranchiata																		
Cionidae																		
Ciona intestinalis																		
Ascidiidae																		
Ascidia translucida		•																
Ascidia meridionalis				•	•					•								
Ascidia challengeri																		
Stolidobranchiata																		
Styelidae																		
Cnemidocarpa verrucosa		•				•										•		
Pyuridae																		
Pyura discoveryi	•	•	•	•	•		•			•								
Pyura setosa				•			•											
Pyura georgiana	•			•								•	•			•		
Pyura squamata	•				•													
Pyura bouvetensis					•								•					
Pyura vittata																		
Pyura legumen					•												•	
Bathypera splendens	•			•						•								
Molgulidae																		
Molgula setigera																		
Molgula falsensis					•													
Eugyra kerguelensis																		
VERTEBRATA																		
Pisces																		
Nototheniidae																		
Trematomus eulepidotus	x	x	x	x														
Trematomus hansoni	x			•x	•								x					
Trematomus lepidorhinus	x	x	x	•x	x	x	x	x	x									
Trematomus pennellii	•	x		•x														
Trematomus scotti	•x	•x	x	•x	x	x		x					x					
Trematomus loennbergii	x		x	x									x	x				
Trematomus cf. *bernacchii*			x															
Trematomus cf. *nicolai*	x	x		x														
Pleuragramma antarcticum		x	•x	•x									x	x				
Aethotaxis mitopteryx			x	•x														
Dissostichus mawsoni			x															
Cryothenia cf. *peninsulae*				x														
Artedidraconidae																		
Artedidraco orianae	•	•		•x														
Artedidraco loennbergi	•x	x		x														
Artedidraco skottsbergi		x	x		x	x	x		x									
Artedidraco shackletoni		x																
Dolloidraco longedorsalis	•x	•x	•x	•x	•							•x	x	x				
Histiodraco velifer		x	x	•														
Pogonophryne marmorata	x				x													
Pogonophryne cf. *permitini*	x			x														
Pogonophryne cf. *barsukovi*		x																
Pogonophryne cf. *scotti*		x																
Pogonophryne lanceobarbata			x															
Pogonophryne cf. *macropogon*																		
Pogonophryne phyllopogon				x														
Pogonophryne cf. *albipinna*																		
Pogonophryne ventrimaculata				x														
Bathydraconidae																		
Gymnodraco acuticeps	x	x																
Gerlachea australis	x		•x	•x									x	x				
Racovitzia glacialis	•x		x	•x								x	x					
Prionodraco evansii	x	•x		•														
Akrotaxis nudiceps			•	•														
Cygnodraco mawsoni		x																
Vomeridens infuscipinnis				•x														

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Phlebobranchiata																	
Cionidae																	
Ciona intestinalis													•				
Ascidiidae																	
Ascidia translucida																	
Ascidia meridionalis																	
Ascidia challengeri																	
Stolidobranchiata																	
Styelidae																	
Cnemidocarpa verrucosa																	
Pyuridae																	
Pyura discoveryi																	
Pyura setosa																	
Pyura georgiana					•												
Pyura squamata																	
Pyura bouvetensis																	
Pyura vittata																	
Pyura legumen																	
Bathypera splendens																	
Molgulidae																	
Molgula setigera																	
Molgula falsensis																	
Eugyra kerguelensis																	
VERTEBRATA																	
Pisces																	
Nototheniidae																	
Trematomus eulepidotus																	
Trematomus hansoni																	
Trematomus lepidorhinus																	
Trematomus pennellii																	
Trematomus scotti																	
Trematomus loennbergii																	
Trematomus cf. *bernacchii*																	
Trematomus cf. *nicolai*																	
Pleuragramma antarcticum																	
Aethotaxis mitopteryx																	
Dissostichus mawsoni																	
Cryothenia cf. *peninsulae*																	
Artedidraconidae																	
Artedidraco orianae																	
Artedidraco loennbergi																	
Artedidraco skottsbergi	•																
Artedidraco shackletoni																	
Dolloidraco longedorsalis																	
Histiodraco velifer																	
Pogonophryne marmorata																	
Pogonophryne cf. *permitini*																	
Pogonophryne cf. *barsukovi*																	
Pogonophryne cf. *scotti*																	
Pogonophryne lanceobarbata																	
Pogonophryne cf. *macropogon*																	
Pogonophryne phyllopogon																	
Pogonophryne cf. *albipinna*																	
Pogonophryne ventrimaculata																	
Bathydraconidae																	
Gymnodraco acuticeps																	
Gerlachea australis																	
Racovitzia glacialis																	
Prionodraco evansii																	
Akrotaxis nudiceps																	
Cygnodraco mawsoni																	
Vomeridens infuscipinnis																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Phlebobranchiata												
Clionidae												
Ciona intestinalis												
Ascidiidae												
Ascidia translucida							•					
Ascidia meridionalis	•	•			•	•						
Ascidia challengeri							•					
Stolidobranchiata												
Styelidae												
Cnemidocarpa verrucosa				•		•	•					
Pyuridae												
Pyura discoveryi	•	•			•	•	•					
Pyura setosa												
Pyura georgiana	•				•		•				•	
Pyura squamata												
Pyura bouvetensis							•					
Pyura vittata							•					
Pyura legumen												
Bathypera splendens		•		•	•	•	•					
Molgulidae												
Molgula setigera							•					
Molgula falsensis	•	•										
Eugyra kerguelensis							•					
VERTEBRATA												
Pisces												
Nototheniidae												
Trematomus eulepidotus	x	x				x	x	•	•	•		
Trematomus hansoni	x					x						
Trematomus lepidorhinus	•x	x	•x	x	•x	•x	•x			x		
Trematomus pennellii		•			••	•						
Trematomus scotti	•x	•x	x		x	•x	•x	x	x	x		
Trematomus loennbergii		x	x	x	x		•x					
Trematomus cf. *bernacchii*		•										
Trematomus cf. *nicolai*	x				x	x						
Pleuragramma antarcticum	•x		•x	•x		x	•x	x	x	x		
Aethotaxis mitopteryx			•x	x			x					
Dissostichus mawsoni			x						x	x		
Cryothenia cf. *peninsulae*	x											
Artedidraconidae												
Artedidraco orianae	x	x		•	x	x	•x					
Artedidraco loennbergi	x	•x			x	x	•x					
Artedidraco skottsbergi		•x				x						
Artedidraco shackletoni						x	x					
Dolloidraco longedorsalis	x	•x			•x	x	•x			•		
Histiodraco velifer						x						
Pogonophryne marmorata	x	x				x	•x					
Pogonophryne cf. *permitini*	x					x						
Pogonophryne cf. *barsukovi*					x	x	x					
Pogonophryne cf. *scotti*					x	x						
Pogonophryne lanceobarbata		x										
Pogonophryne cf. *macropogon*		x					x					x
Pogonophryne phyllopogon												
Pogonophryne cf. *albipinna*											x	
Pogonophryne ventrimaculata												
Bathydraconidae												
Gymnodraco acuticeps	x	x				x	x	•	•	•		
Gerlachea australis	x				x	x				•		
Racovitzia glacialis	x	x	•x		x	x						
Prionodraco evansii	x	•										
Akrotaxis nudiceps												
Cygnodraco mawsoni		••			x							
Vomeridens infuscipinnis												

			det.
35	*Bathydraco marri*	Norman, 1938	xBG+MN
36	*Bathydraco macrolepis*	Boulenger, 1907	xBG+MN
	Channichthyidae		
37	*Cryodraco antarcticus*	Dollo, 1900	•VO+BS, xBG+MN
38	*Chionodraco hamatus*	(Lönnberg, 1905)	•VO+BS, xBG+MN
39	*Chionodraco myersi*	DeWitt and Tyler, 1960	•VO+BS, xBG+MN
40	*Chionodraco rastrospinosus*	DeWitt and Hureau, 1979	•VO+BS
41	*Dacodraco hunteri*	Waite, 1916	•VO+BS, xBG+MN
42	*Chaenodraco wilsoni*	Regan, 1914	•VO+BS, xBG+MN
43	*Pagetopsis maculatus*	Barsukov and Permitin, 1958	•VO+BS, xBG+MN
44	*Pagetopsis macropterus*	(Boulenger, 1907)	xBG+MN
45	*Neopagetopsis ionah*	Nybelin, 1947	xBG+MN
46	*Chionobathyscus dewitti*	Andriashev and Neelov, 1978	xBG+MN
	Macrouridae		
47	*Macrourus whitsoni*	(Regan, 1913)	xBG+MN
	Liparidae		
48	*Careproctus continentalis*	Andriashev and Prirodina, 1990	xBG+MN
49	*Edentoliparis terranovae*	(Regan, 1916)	•VO+BS
50	*Paraliparis leobergi*	Andriashev, 1982	•VO+BS
51	*Paraliparis meganchus*	Andriashev, 1982	•VO+BS
52	*Paraliparis incognita*	Stein and Tompkins, 1989	•VO+BS, xBG+MN
53	*Paraliparis antarcticus*	Regan, 1914	xBG+MN
54	*Paraliparis operculosus*	Andriashev, 1979	xBG+MN
55	*Paraliparis mawsoni*	Andriashev, 1986	xBG+MN
56	*Paraliparis charcoti*	Duhamel, 1992	xBG+MN
	Zoarcidae		
57	*Pachycara brachycephalum*	(Pappenheim, 1912)	•VO+BS
58	*Ophthalmolycus bothriocephalus*	(Pappenheim, 1912)	•VO+BS, xBG+MN
59	*Ophthalmolycus amberensis*	(Tomo, Marschoff and Tomo, 1977)	xBG+MN
60	*Lycodichthys antarcticus*	Pappenheim, 1911	xBG+MN
	Myctophidae		
61	*Gymnoscopelus opisthopterus*	Fraser-Brunner, 1949	•VO+BS
62	*Electrona antarctica*	(Günther, 1878)	xBG+MN
63	*Gymnoscopelus* cf. *bolini*	Andriashev, 1962	xBG+MN
	Paralepididae		
64	*Notolepis coatsi*	Dollo, 1908	•VO+BS, xBG+MN
	Muraenolepididae		
65	*Muraenolepis microps*	Lönnberg, 1905	xBG+MN
	Bathylagidae		
66	*Bathylagus antarcticus*	Günther, 1878	•VO+BS, xBG+MN
	Rajidae		
67	*Bathyraja maccaini*	Springer, 1971	xBG+MN

gear	BT	BT	BT	BP	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	EB	DR	DR
gear no.	01	02	03	04	01	02	03	05	06	07	08	09	10	11	12	01	19	20
station no.	01	05	09	29	06	02	06	04	24	25	25	06	09	09	30	05	25	26
area	Kapp Norvegia area																	
Bathydraco marri			x	x									x	x				
Bathydraco macrolepis				x														
Channichthyidae																		
Cryodraco antarcticus	x	x		•x								x						
Chionodraco hamatus		x	x	•x								x						
Chionodraco myersi	x	x	•x	•x			x					x	x	x				
Chionodraco rastrospinosus	•		•	•														
Dacodraco hunteri	x		x	•x	•							•	x	x				
Chaenodraco wilsoni	x	x		x														
Pagetopsis maculatus	x	x		x														
Pagetopsis macropterus	x	x		x														
Neopagetopsis ionah																		
Chionobathyscus dewitti																		
Macrouridae																		
Macrourus whitsoni										x								
Liparidae																		
Careproctus continentalis																		
Edentoliparis terranovae				•														
Paraliparis leobergi				•														
Paraliparis meganchus				•														
Paraliparis incognita																		
Paraliparis antarcticus	x			x														
Paraliparis operculosus																		
Paraliparis mawsoni																		
Paraliparis charcoti																		
Zoarcidae																		
Pachycara brachycephalum				•														
Ophthalmolycus bothriocephalus				•x									x					
Ophthalmolycus amberensis	x			x				x										
Lycodichthys antarcticus	x																	
Myctophidae																		
Gymnoscopelus opisthopterus																		
Electrona antarctica																		
Gymnoscopelus cf. *bolini*																		
Paralepididae																		
Notolepis coatsi																		
Muraenolepididae																		
Muraenolepis microps						x												
Bathylagidae																		
Bathylagus antarcticus																		
Rajidae																		
Bathyraja maccaini																		

gear	DR	DR	DR	DR	DR	MG	MG	MG	MG	MG	GK	GK	GK	GK	GK	GK	GK
gear no.	21	22	24	26	27	02	20	28	29	30	01	10	12	14	15	16	17
station no.	26	09	30	31	32	05	04	02	02	02	07	04	24	25	25	03	29
area	Kapp Norvegia area																
Bathydraco marri																	
Bathydraco macrolepis																	
Channichthyidae																	
Cryodraco antarcticus																	
Chionodraco hamatus																	
Chionodraco myersi																	
Chionodraco rastrospinosus																	
Dacodraco hunteri																	
Chaenodraco wilsoni																	
Pagetopsis maculatus																	
Pagetopsis macropterus																	
Neopagetopsis ionah																	
Chionobathyscus dewitti																	
Macrouridae																	
Macrourus whitsoni																	
Liparidae																	
Careproctus continentalis																	
Edentoliparis terranovae																	
Paraliparis leobergi																	
Paraliparis meganchus																	
Paraliparis incognita																	
Paraliparis antarcticus																	
Paraliparis operculosus																	
Paraliparis mawsoni																	
Paraliparis charcoti																	
Zoarcidae																	
Pachycara brachycephalum																	
Ophthalmolycus bothriocephalus																	
Ophthalmolycus amberensis																	
Lycodichthys antarcticus																	
Myctophidae																	
Gymnoscopelus opisthopterus																	
Electrona antarctica																	
Gymnoscopelus cf. *bolini*																	
Paralepididae																	
Notolepis coatsi																	
Muraenolepididae																	
Muraenolepis microps																	
Bathylagidae																	
Bathylagus antarcticus																	
Rajidae																	
Bathyraja maccaini																	

gear	BT	BT	BT	BT	BT	BT	BT	BP	BP	BP	AG	AG
gear no.	04	05	06	07	08	09	10	01	02	03	4a	4b
station no.	11	12	13	14	15	16	17	20	21	21	18	18
area	South of Vestkapp											
Bathydraco marri				x	x		x					x
Bathydraco macrolepis												x
Channichthyidae												
Cryodraco antarcticus	x	x			x	x	x		x	•x		
Chionodraco hamatus	•x				x	x	x	x		x		
Chionodraco myersi	x	x	•x		•x	x	x		x	x		
Chionodraco rastrospinosus												
Dacodraco hunteri							x		x	x		
Chaenodraco wilsoni	x	x		x	x	•x			x			
Pagetopsis maculatus	x				•x	x				x		
Pagetopsis macropterus												
Neopagetopsis ionah	x				x		x					
Chionobathyscus dewitti							x					
Macrouridae												
Macrourus whitsoni			x	x		x						x
Liparidae												
Careproctus continentalis					x							
Edentoliparis terranovae												
Paraliparis leobergi												
Paraliparis meganchus												
Paraliparis incognita		•x			•							
Paraliparis antarcticus					x							
Paraliparis operculosus		x										
Paraliparis mawsoni			x									
Paraliparis charcoti							x					
Zoarcidae												
Pachycara brachycephalum		•	•									
Ophthalmolycus bothriocephalus			•									
Ophthalmolycus amberensis						x						x
Lycodichthys antarcticus		x			x		x					
Myctophidae												
Gymnoscopelus opisthopterus				•								
Electrona antarctica			x	x								
Gymnoscopelus cf. *bolini*			x	x								
Paralepididae												
Notolepis coatsi			x	•								
Muraenolepididae												
Muraenolepis microps			x									
Bathylagidae												
Bathylagus antarcticus				•x								
Rajidae												
Bathyraja maccaini			x		x	x						

Folgende Hefte der Reihe „Berichte zur Polarforschung" sind bisher erschienen:

* **Sonderheft Nr. 1/1981** – „Die Antarktis und ihr Lebensraum"
  Eine Einführung für Besucher – Herausgegeben im Auftrag von SCAR
* **Heft Nr. 1/1982** – „Die Filchner-Schelfeis-Expedition 1980/81"
  zusammengestellt von Heinz Kohnen
* **Heft Nr. 2/1982** – „Deutsche Antarktis-Expedition 1980/81 mit FS „Meteor"
  First International BIOMASS Experiment (FIBEX) – Liste der Zooplankton- und Mikronektonnetzfänge
  zusammengestellt von Norbert Klages
* **Heft Nr. 3/1982** – „Digitale und analoge Krill-Echolot-Rohdatenerfassung an Bord des Forschungsschiffes ‚Meteor'" (im Rahmen von FIBEX 1980/81, Fahrtabschnitt ANT III), von Bodo Morgenstern

  Heft Nr. 4/1982 – „Filchner-Schelfeis-Expedition 1980/81"
  Liste der Planktonfänge und Lichtstärkemessungen
  zusammengestellt von Gerd Hubold und H. Eberhard Drescher
* **Heft Nr. 5/1982** – "Joint Biological Expedition on RRS 'John Biscoe', February 1982"
  by G. Hempel and R. B. Heywood
* **Heft Nr. 6/1982** – „Antarktis-Expedition 1981/82 (Unternehmen ‚Eiswarte')"
  zusammengestellt von Gode Gravenhorst

  Heft Nr. 7/1982 – „Marin-Biologisches Begleitprogramm zur Standorterkundung 1979/80 mit MS ‚Polarsirkel' (Pre-Site Survey)" – Stationslisten der Mikronekton- und Zooplanktonfänge sowie der Bodenfischerei
  zusammengestellt von R. Schneppenheim

  Heft Nr. 8/1983 – "The Post-Fibex Data Interpretation Workshop"
  by D. L. Cram and J.-C. Freytag with the collaboration of J. W. Schmidt, M. Mall, R. Kresse, T. Schwinghammer
* **Heft Nr. 9/1983** – "Distribution of some groups of zooplankton in the inner Weddell Sea in summer 1979/80"
  by I. Hempel, G. Hubold, B. Kaczmaruk, R. Keller, R. Weigmann-Haass

  Heft Nr. 10/1983 – „Fluor im antarktischen Ökosystem" – DFG-Symposium November 1982
  zusammengestellt von Dieter Adelung

  Heft Nr. 11/1983 – "Joint Biological Expedition on RRS 'John Biscoe', February 1982 (II)"
  Data of micronecton and zooplankton hauls, by Uwe Piatkowski

  Heft Nr. 12/1983 – „Das biologische Programm der ANTARKTIS-I-Expedition 1983 mit FS ‚Polarstern'"
  Stationslisten der Plankton-, Benthos- und Grundschleppnetzfänge und Liste der Probennahme an Robben und Vögeln, von H. E. Drescher, G. Hubold, U. Piatkowski, J. Plötz und J. Voß
* **Heft Nr. 13/1983** – „Die Antarktis-Expedition von MS ‚Polarbjörn' 1982/83" (Sommerkampagne zur Atka-Bucht und zu den Kraul-Bergen), zusammengestellt von Heinz Kohnen
* **Sonderheft Nr. 2/1983** – „Die erste Antarktis-Expedition von FS ‚Polarstern' (Kapstadt, 20. Januar 1983 – Rio de Janeiro, 25. März 1983)", Bericht des Fahrtleiters Prof. Dr. Gotthilf Hempel

  Sonderheft Nr. 3/1983 – „Sicherheit und Überleben bei Polarexpeditionen"
  zusammengestellt von Heinz Kohnen
* **Heft Nr. 14/1983** – „Die erste Antarktis-Expedition (ANTARKTIS I) von FS ‚Polarstern' 1982/83"
  herausgegeben von Gotthilf Hempel

  Sonderheft Nr. 4/1983 – "On the Biology of Krill *Euphausia superba*" – Proceedings of the Seminar and Report of the Krill Ecology Group, Bremerhaven 12. - 16. May 1983, edited by S. B. Schnack

  Heft Nr. 15/1983 – "German Antarctic Expedition 1980/81 with FRV 'Walther Herwig' and RV 'Meteor'" – First International BIOMASS Experiment (FIBEX) – Data of micronekton and zooplankton hauls
  by Uwe Piatkowski and Norbert Klages

  Sonderheft Nr. 5/1984 – "The observatories of the Georg von Neumayer Station", by Ernst Augstein

  Heft Nr. 16/1984 – "FIBEX cruise zooplankton data"
  by U. Piatkowski, I. Hempel and S. Rakusa-Suszczewski
* **Heft Nr. 17/1984** – Fahrtbericht (cruise report) der ‚Polarstern'-Reise ARKTIS I, 1983"
  von E. Augstein, G. Hempel und J. Thiede

  Heft Nr. 18/1984 – „Die Expedition ANTARKTIS II mit FS ‚Polarstern' 1983/84",
  Bericht von den Fahrtabschnitten 1, 2 und 3, herausgegeben von D. Fütterer

  Heft Nr. 19/1984 – „Die Expedition ANTARKTIS II mit FS ‚Polarstern' 1983/84",
  Bericht vom Fahrtabschnitt 4, Punta Arenas-Kapstadt (Ant-II/4), herausgegeben von H. Kohnen

  Heft Nr. 20/1984 – „Die Expedition ARKTIS II des FS ‚Polarstern' 1984, mit Beiträgen des FS ‚Valdivia' und des Forschungsflugzeuges ‚Falcon 20' zum Marginal Ice Zone Experiment 1984 (MIZEX)"
  von E. Augstein, G. Hempel, J. Schwarz, J. Thiede und W. Weigel

  Heft Nr. 21/1985 – "Euphausiid larvae in plankton from the vicinity of the Antarctic Penisula, February 1982" by Sigrid Marschall and Elke Mizdalski

  Heft Nr. 22/1985 – "Maps of the geographical distribution of macrozooplankton in the Atlantic sector of the Southern Ocean" by Uwe Piatkowski

  Heft Nr. 23/1985 – „Untersuchungen zur Funktionsmorphologie und Nahrungsaufnahme der Larven des Antarktischen Krills *Euphausia superba* Dana" von Hans-Peter Marschall

Heft Nr. 24/1985 – „Untersuchungen zum Periglazial auf der König-Georg-Insel Südshetlandinseln/ Antarktika. Deutsche physicgeographische Forschungen in der Antarktis. – Bericht über die Kampagne 1983/84" von Dietrich Barsch, Wolf-Dieter Blümel, Wolfgang Flügel, Roland Mäusbacher, Gerhard Stäblein, Wolfgang Zick

* **Heft Nr. 25/1985** – „Die Expedition ANTARKTIS III mit FS ‚Polarstern' 1984/1985" herausgegeben von Gotthilf Hempel.

* **Heft Nr. 26/1985** – "The Southern Ocean"; A survey of oceanographic and marine meteorological research work by Hellmer et al.

* **Heft Nr. 27/1986** – „Spätpleistozäne Sedimentationsprozesse am antarktischen Kontinentalhang vor Kapp Norvegia, östliche Weddell-See" von Hannes Grobe

Heft Nr. 28/1986 – „Die Expedition ARKTIS III mit ‚Polarstern' 1985 mit Beiträgen der Fahrtteilnehmer, herausgegeben von Rainer Gersonde

* **Heft Nr. 29/1986** – „5 Jahre Schwerpunktprogramm ‚Antarktisforschung' der Deutschen Forschungsgemeisnchaft." Rückblick und Ausblick. Zusammengestellt von Gotthilf Hempel, Sprecher des Schwerpunktprogramms

Heft Nr. 30/1986 – "The Meteorological Data of the Georg-von-Neumayer-Station for 1981 and 1982" by Marianne Gube and Friedrich Obleitner

* **Heft Nr. 31/1986** – „Zur Biologie der Jugendstadien der Notothenioidei (Pisces) an der Antarktischen Halbinsel" von A. Kellermann

* **Heft Nr. 32/1986** – „Die Expedition ANTARKTIS IV mit FS ‚Polarstern' 1985/86" mit Beiträgen der Fahrtteilnehmer, herausgegeben von Dieter Fütterer

Heft Nr. 33/1987 – „Die Expedition ANTARKTIS-IV mit FS ‚Polarstern' 1985/86 – Bericht zu den Fahrtabschnitten ANT-IV/3-4" von Dieter Karl Fütterer

Heft Nr. 34/1987 – „Zoogeographische Untersuchungen und Gemeinschaftsanalysen an antarktischen Makroplankton" von U. Piatkowski

Heft Nr. 35/1987 – „Zur Verbreitung des Meso- und Makrozooplanktons in Oberflächenwasser der Weddell See (Antarktis)" von E. Boysen-Ennen

Heft Nr. 36/1987 – „Zur Nahrungs- und Bewegungsphysiologie von *Salpa thompsoni* und *Salpa fusiformis*" von M. Reinke

Heft-Nr. 37/1987 – "The Eastern Weddell Sea Drifting Buoy Data Set of the Winter Weddell Sea Project (WWSP)" 1986 by Heinrich Hoeber und Marianne Gube-Lenhardt.

Heft Nr. 38/1987 – "The Meteorological Data of the Georg von Neumayer Station for 1983 and 1984" by M. Gube-Lenhardt

Heft Nr. 39/1987 – „Die Winter-Expedition mit FS ‚Polarstern' in die Antarktis (ANT V/1-3)" herausgegeben von Sigrid Schnack-Schiel

Heft Nr. 40/1987 – "Weather and Synoptic Situation during Winter Weddell Sea Project 1986 (ANT V/2) July 16 - September 10, 1986" by Werner Rabe

Heft Nr. 41/1988 – „Zur Verbreitung und Ökologie der Seegurken im Weddellmeer (Antarktis)" von Julian Gutt

Heft Nr. 42/1988 – "The zooplankton community in the deep bathyal and abyssal zones of the eastern North Atlantic" by Werner Beckmann

* **Heft Nr. 43/1988** – "Scientific cruise report of Arctic Expedition ARK IV/3" Wissenschaftlicher Fahrtbericht der Arktis-Expedition ARK IV/3, compiled by Jörn Thiede

* **Heft Nr. 44/1988** – "Data Report for FV 'Polarstern' Cruise ARK IV/1, 1987 to the Arctic and Polar Fronts" by Hans-Jürgen Hirche

Heft Nr. 45/1988 – „Zoogeographie und Gemeinschaftsanalyse des Makrozoobenthos des Weddellmeeres (Antarktis)" von Joachim Voß

Heft Nr. 46/1988 – "Meteorological and Oceanographic Data of the Winter-Weddell-Sea Project 1986 (ANT V/3)" by Eberhard Fahrbach

Heft Nr. 47/1988 – „Verteilung und Herkunft glazial-mariner Gerölle am Antarktischen Kontinentalrand des östlichen Weddellmeeres" von Wolfgang Oskierski

Heft Nr. 48/1988 – „Variationen des Erdmagnetfeldes an der GvN-Station" von Arnold Brodscholl

* **Heft Nr. 49/1988** – „Zur Bedeutung der Lipide im antarktischen Zooplankton" von Wilhelm Hagen

* **Heft Nr. 50/1988** – „Die gezeitenbedingte Dynamik des Ekström-Schelfeises, Antarktis" von Wolfgang Kobarg

Heft Nr. 51/1988 – „Ökomorphologie nototheniider Fische aus dem Weddellmeer, Antarktis" von Werner Ekau

Heft Nr. 52/1988 – „Zusammensetzung der Bodenfauna in der westlichen Fram-Straße" von Dieter Piepenburg

* **Heft Nr. 53/1988** – „Untersuchungen zur Ökologie des Phytoplanktons im südöstlichen Weddellmeer (Antarktis) im Jan./Febr. 1985" von Eva-Maria Nöthig

Heft Nr. 54/1988 – „Die Fischfauna des östlichen und südlichen Weddellmeeres: geographische Verbreitung, Nahrung und trophische Stellung der Fischarten" von Wiebke Schwarzbach

Heft Nr. 55/1988 – "Weight and length data of zooplankton in the Weddell Sea in austral spring 1986 (Ant. V/3)" by Elke Mizdalski

Heft Nr. 56/1989 – "Scientific cruise report of Arctic expeditions ARK IV/1, 2 & 3" by G. Krause, J. Meinke und J. Thiede

Heft Nr. 57/1989 – „Die Expedition ANTARKTIS V mit FS ‚Polarstern' 1986/87"
Bericht von den Fahrtabschnitten ANT V/4-5 von H. Miller und H. Oerter

* **Heft Nr. 58/1989** – „Die Expedition ANTARKTIS VI mit FS ‚Polarstern' 1987/88"
von D. K. Fütterer

Heft Nr. 59/1989 – „Die Expedition ARKTIS V/1a, 1b und 2 mit FS ‚Polarstern' 1988"
von M. Spindler

Heft Nr. 60/1989 – „Ein zweidimensionales Modell zur thermohalinen Zirkulation unter dem Schelfeis"
von H. H. Hellmer

Heft Nr. 61/1989 – "Die Vulkanite im westlichen und mittleren Neuschwabenland,
Vestfjella und Ahlmannryggen, Antarktika" von M. Peters

* **Heft Nr. 62/1989** – "The Expedition ANTARKTIS VII/1 and 2 (EPOS I) of RV 'Polarstern'
in 1988/89", by I. Hempel

Heft Nr. 63/1989 – „Die Eisalgenflora des Weddellmeeres (Antarktis): Artenzusammensetzung und Biomasse
sowie Ökophysiologie ausgewählter Arten" von Annette Bartsch

Heft Nr. 64/1989 – "Meteorological Data of the G.-v.-Neumayer-Station (Antarctica)" by L. Helmes

Heft Nr. 65/1989 – "Expedition Antarktis VII/3 in 1988/89" by I. Hempel, P. H. Schalk, V. Smetacek

Heft Nr. 66/1989 – „Geomorphologisch-glaziologische Detailkartierung
des arid-hochpolaren Borgmassivet, Neuschwabenland, Antarktika" von Karsten Brunk

Heft Nr. 67/1990 – "Identification key and catalogue of larval Antarctic fishes",
edited by Adolf Kellermann

Heft Nr. 68/1990 – "The Expedition Antarktis VII/4 (Epos leg 3) and VII/5 of RV 'Polarstern' in 1989",
edited by W. Arntz, W. Ernst, I. Hempel

Heft Nr. 69/1990 – „Abhängigkeiten elastischer und rheologischer Eigenschaften des Meereises vom
Eisgefüge", von Harald Hellmann

* **Heft Nr. 70/1990** – „Die beschalten benthischen Mollusken (Gastropoda und Bivalvia) des
Weddellmeeres, Antarktis", von Stefan Hain

Heft Nr. 71/1990 – „Sedimentologie und Paläomagnetik an Sedimenten der Maudkuppe (Nordöstliches
Weddellmeer)", von Dieter Cordes

Heft Nr. 72/1990 – "Distribution and abundance of planktonic copepods (Crustacea) in the Weddell Sea
in summer 1980/81", by F. Kurbjeweit and S. Ali-Khan

Heft Nr. 73/1990 – „Zur Frühdiagenese von organischem Kohlenstoff und Opal in Sedimenten des südlichen
und östlichen Weddellmeeres", von M. Schlüter

Heft Nr. 74/1990 – „Expeditionen ANTARKTIS-VIII/3 und VIII/4 mit FS ‚Polarstern' 1989"
von Rainer Gersonde und Gotthilf Hempel

Heft Nr. 75/1991 – „Quartäre Sedimentationsprozesse am Kontinentalhang des Süd-Orkey-Plateaus im
nordwestlichen Weddellmeer (Antarktis)", von Sigrun Grünig

Heft Nr. 76/1990 – „Ergebnisse der faunistischen Arbeiten im Benthal von King George Island
(Südshetlandinseln, Antarktis)", von Martin Rauschert

Heft Nr. 77/1990 – „Verteilung von Mikroplankton-Organismen nordwestlich der Antarktischen Halbinsel
unter dem Einfluß sich ändernder Umweltbedingungen im Herbst", von Heinz Klöser

Heft Nr. 78/1991 – „Hochauflösende Magnetostratigraphie spätquartärer Sedimente arktischer
Meeresgebiete", von Norbert R. Nowaczyk

Heft Nr. 79/1991 – „Ökophysiologische Untersuchungen zur Salinitäts- und Temperaturtoleranz
antarktischer Grünalgen unter besonderer Berücksichtigung des β-Dimethylsulfoniumpropionat
(DMSP) - Stoffwechsels", von Ulf Karsten

Heft Nr. 80/1991 – „Die Expedition ARKTIS VII/1 mit FS ‚Polarstern' 1990",
herausgegeben von Jörn Thiede und Gotthilf Hempel

Heft Nr. 81/1991 – „Paläoglaziologie und Paläozeanographie im Spätquartär am Kontinentalrand des
südlichen Weddelmeeres, Antarktis", von Martin Melles

Heft-Nr. 82/1991 – "Quantifizierung von Meereseigenschaften: Automatische Bildanalyse von
Dünnschnitten und Parametrisierung von Chlorophyll- und Salzgehaltsverteilungen", von Hajo Eicken.

Heft Nr. 83/1991 – „Das Fließen von Schelfeisen - numerische Simulationen
mit der Metholde der finiten Differenzen", von Jürgen Determann

Heft Nr. 84/1991 – „Die Expedition ANTARKTIS-VIII/1-2, 1989 mit der Winter Weddell Gyre Study
der Forschungsschiffe ‚Polarstern' und ‚Akademik Fedorov'", von Ernst Augstein,
Nikolai Bagriantsev und Hans Werner Schenke

Heft Nr. 85/1991 – „Zur Entstehung von Unterwassereis und das Wachstum und die Energiebilanz
des Meereises in der Atka Bucht, Antarktis", von Josef Kipfstuhl

* **Heft Nr. 86/1991** – „Die Expedition ANTARKTIS-VIII mit FS ‚Polarstern' 1989/90. Bericht vom
Fahrtabschnitt ANT-VIII/5", von Heinz Miller und Hans Oerter

Heft Nr. 87/1991 – "Scientific cruise reports of Arctic expeditions ARK VI/1-4 of RV 'Polarstern'
in 1989", edited by G. Krause, J. Meincke & H. J. Schwarz

Heft Nr. 88/1991 – „Zur Lebensgeschichte dominanter Copepodenarten (*Calanus finmarchicus,
C. glacialis, C. hyperboreus, Metridia longa*) in der Framstraße", von Sabine Diel

Heft Nr. 89/1991 – „Detaillierte seismische Untersuchungen am östlichen Kontinentalrand des Weddell-Meeres vor Kapp Norvegia, Antarktis", von Norbert E. Kaul

Heft Nr. 90/1991 – „Die Expedition ANTARKTIS-VIII mit FS ‚Polarstern' 1989/90. Bericht von den Fahrtabschnitten ANT-VIII/6-7", herausgegeben von Dieter Karl Fütterer und Otto Schrems

Heft Nr. 91/1991 – "Blood physiology and ecological consequences in Weddell Sea fishes (Antarctica)", by Andreas Kunzmann

Heft Nr. 92/1991 – „Zur sommerlichen Verteilung des Mesozooplanktons im Nansen-Becken, Nordpolarmeer", von Nicolai Mumm

Heft Nr. 93/1991 – „Die Expedition ARKTIS VII mit FS ‚Polarstern', 1990. Bericht vom Fahrtabschnitt ARK VII/2", herausgegeben von Gunther Krause

Heft Nr. 94/1991 – „Die Entwicklung des Phytoplanktons im östlichen Weddellmeer (Antarktis) beim Übergang vom Spätwinter zum Frühjahr", von Renate Scharek

Heft Nr. 95/1991 – „Radioisotopenstratigraphie, Sedimentologie und Geochemie jungquartärer Sedimente des östlichen Arktischen Ozeans", von Horst Bohrmann

Heft Nr. 96/1991 – „Holozäne Sedimentationsentwicklung im Scoresby Sund, Ost-Grönland", von Peter Marienfeld

Heft Nr. 97/1991 – „Strukturelle Entwicklung und Abkühlungsgeschichte von Heimefrontfjella (Westliches Dronning Maud Land/Antarktika)", von Joachim Jacobs

Heft Nr. 98/1991 – „Zur Besiedlungsgeschichte des antarktischen Schelfes am Beispiel der Isopoda (Crustacea, Malacostraca)", von Angelika Brandt

* **Heft Nr. 99/1992** – "The Antarctic ice sheet and environmental change: a three-dimensional modelling study", by Philippe Huybrechts

* **Heft Nr. 100/1992** – „Die Expeditionen ANTARKTIS IX/1-4 des Forschungsschiffes ‚Polarstern' 1990/91" herausgegeben von Ulrich Bathmann, Meinhard Schulz-Baldes, Eberhard Fahrbach, Victor Smetacek und Hans-Wolfgang Hubberten

Heft Nr. 101/1992 – „Wechselbeziehungen zwischen Schwermetallkonzentrationen (Cd, Cu, Pb, Zn) im Meerwasser und in Zooplanktonorganismen (Copepoda) der Arktis und des Atlantiks", von Christa Pohl

Heft Nr. 102/1992 – „Physiologie und Ultrastruktur der antarktischen Grünalge *Prasiola crispa ssp. antarctica* unter osmotischem Streß und Austrocknung", von Andreas Jacob

* **Heft Nr. 103/1992** – „Zur Ökologie der Fische im Weddellmeer", von Gerd Hubold

Heft Nr. 104/1992 – „Mehrkanalige adaptive Filter für die Unterdrückung von multiplen Reflexionen in Verbindung mit der freien Oberfläche in marinen Seismogrammen", von Andreas Rosenberger

Heft Nr. 105/1992 – "Radiation and Eddy Flux Experiment 1991 *(REFLEX I)*", von Jörg Hartmann, Christoph Kottmeier und Christian Wamser

Heft Nr. 106/1992 – „Ostracoden im Epipelagial vor der Antarktischen Halbinsel - ein Beitrag zur Systematik sowie zur Verbreitung und Populationsstruktur unter Berücksichtigung der Saisonalität", von Rüdiger Kock

* **Heft Nr. 107/1992** – „ARCTIC '91: Die Expedition ARK-VIII/3 mit FS ‚Polarstern' 1991", von Dieter K. Fütterer

Heft Nr. 108/1992 – „Dehnungsbeben an einer Störungszone im Ekström-Schelfeis nördlich der Georg-von-Neumayer-Station, Antarktis. – Eine Untersuchung mit seismologischen und geodätischen Methoden", von Uwe Nixdorf.

* **Heft Nr. 109/1992** – „Spätquartäre Sedimentation am Kontinentalrand des südöstlichen Weddellmeeres, Antarktis", von Michael Weber.

* **Heft Nr. 110/1992** – „Sedimentfazies und Bodenwasserstrom am Kontinentalhang des norwestlichen Weddellmeeres", von Isa Brehme.

Heft Nr. 111/1992 – „Die Lebensbedingungen in den Solekanälchen des antarktischen Meereises", von Jürgen Weissenberger.

Heft Nr. 112/1992 – „Zur Taxonomie von rezenten benthischen Foraminiferen aus dem Nansen Becken, Arktischer Ozean", von Jutta Wollenburg.

Heft Nr. 113/1992 – „Die Expedition ARKTIS VIII/1 mit FS ‚Polarstern' 1991", herausgegeben von Gerhard Kattner.

* **Heft Nr. 114/1992** – „Die Gründungsphase deutscher Polarforschung, 1865 - 1875", von Reinhard A. Krause.

Heft Nr. 115/1992 – "Scientific Cruise Report of the 1991 Arctic Expedition ARK VIII/2 of RV 'Polarstern' (EPOS II)", by Eike Rachor.

Heft Nr. 116/1992 – "The Meteorological Data of the Georg-von-Neumayer-Station (Antarctica) for 1988, 1989, 1990 and 1991", by Gert König-Langlo.

Heft Nr. 117/1992 – „Petrogenese des metamorphen Grundgebirges der zentralen Heimefrontfjella (westliches Dronning Maud Land / Antarktis)", von Peter Schulze.

Heft Nr. 118/1993 – „Die mafischen Gänge der Shackleton Range / Antarktika: Petrographie, Geochemie, Isotopengeochemie und Paläomagnetik", von Rüdiger Hotten.

* **Heft Nr. 119/1993** – „Gefrierschutz bei Fischen der Polarmeere", von Andreas P. A. Wöhrmann.

* **Heft Nr. 120/1993** – "East Siberian Arctic Region Expedition '92: The Laptev Sea - its Significance for Arctic Sea-Ice Formation and Transpolar Sediment Flux", by D. Dethleff, D. Nürnberg, E. Reimnitz, M. Saarso and Y. P. Sacchenko. – "Expedition to Novaja Zemlja and Franz Josef Land with RV. 'Dalnie Zelentsy'", by D. Nürnberg and E. Groth.

- **Heft Nr. 121/1993** – „Die Expedition ANTARKTIS X/3 mit FS ‚Polarstern' 1992", herausgegeben von Michael Spindler, Gerhard Dieckmann und David Thomas
  Heft Nr. 122/1993 – „Die Beschreibung der Korngestalt mit Hilfe der Fourier-Analyse: Parametrisierung der morphologischen Eigenschaften von Sedimentpartikeln", von Michael Diepenbroek.
- * **Heft Nr. 123/1993** – „Zerstörungsfreie hochauflösende Dichteuntersuchungen mariner Sedimente", von Sebastian Gerland.
  Heft Nr. 124/1993 – „Umsatz und Verteilung von Lipiden in arktischen marinen Organismen unter besonderer Berücksichtigung unterer trophischer Stufen", von Martin Graeve.
  Heft Nr. 125/1993 – „Ökologie und Respiration ausgewählter arktischer Bodenfischarten", von Christian F. von Dorrien.
  Heft Nr. 126/1993 – „Quantitative Bestimmung von Paläoumweltparametern des Antarktischen Oberflächenwassers im Spätquartier anhand von Transferfunktionen mit Diatomeen", von Ulrich Zielinski
- * **Heft Nr. 127/1993** – „Sedimenttransport durch das arktische Meereis: Die rezente lithogene und biogene Materialfracht", von Ingo Wollenburg.
  Heft Nr. 128/1993 – "Cruise ANTARKTIS X/3 of RV 'Polarstern': CTD-Report", von Marek Zwierz.
  Heft Nr. 129/1993 – „Reproduktion und Lebenszyklen dominanter Copepodenarten aus dem Weddellmeer, Antarktis", von Frank Kurbjeweit
  Heft Nr. 130/1993 – „Untersuchungen zu Temperaturregime und Massenhaushalt des Filchner-Ronne-Schelfeises, Antarktis, unter besonderer Berücksichtigung von Anfrier- und Abschmelzprozessen", von Klaus Grosfeld
  Heft Nr. 131/1993 – „Die Expedition ANTARKTIS X/5 mit FS ‚Polarstern' 1992", herausgegeben von Rainer Gersonde
  Heft Nr. 132/1993 – „Bildung und Abgabe kurzkettiger halogenierter Kohlenwasserstoffe durch Makroalgen der Polarregionen", von Frank Laturnus
  Heft Nr. 133/1994 – "Radiation and Eddy Flux Experiment 1993 *(REFLEX II)*", by Christoph Kottmeier, Jörg Hartmann, Christian Wamser, Axel Bochert, Christof Lüpkes, Dietmar Freese and Wolfgang Cohrs
- **Heft Nr. 134/1994** – "The Expedition ARKTIS-IX/1", edited by Hajo Eicken and Jens Meincke
  Heft Nr. 135/1994 – „Die Expeditionen ANTARKTIS X/6-8", herausgegeben von Ulrich Bathmann, Victor Smetacek, Hein de Baar, Eberhard Fahrbach und Gunter Krause
  Heft Nr. 136/1994 – „Untersuchungen zur Ernährungsökologie von Kaiserpinguinen *(Aptenodytes forsteri)* und Königspinguinen *(Aptenodytes patagonicus)*", von Klemens Pütz
- **Heft Nr. 137/1994** – „Die känozoische Vereisungsgeschichte der Antarktis", von Werner U. Ehrmann
  Heft Nr. 138/1994 – „Untersuchungen stratosphärischer Aerosole vulkanischen Ursprungs und polarer stratosphärischer Wolken mit einem Mehrwellenlängen-Lidar auf Spitzbergen *(79° N, 12° E)*", von Georg Beyerle
  Heft Nr. 139/1994 – „Charakterisierung der Isopodenfauna (Crustacea, Malacostraca) des Scotia-Bogens aus biogeographischer Sicht: Ein multivariater Ansatz", von Holger Winkler.
  Heft Nr. 140/1994 – „Die Expedition ANTARKTIS X/4 mit FS ‚Polarstern' 1992", herausgegeben von Peter Lemke
  Heft Nr. 141/1994 – „Satellitenaltimetrie über Eis – Anwendung des GEOSAT-Altimeters über dem Ekströmisen, Antarktis", von Clemens Heidland
  Heft Nr. 142/1994 – "The 1993 Northeast Water Expedition. Scientific cruise report of RV 'Polartstern' Arctic cruises ARK IX/2 and 3, USCG 'Polar Bear' cruise NEWP and the NEWLand expedition", edited by Hans-Jürgen Hirche and Gerhard Kattner
  Heft Nr. 143/1994 – „Detaillierte refraktionsseismische Untersuchungen im inneren Scoresby Sund Ost-Grönland", von Notker Fechner
  Heft Nr. 144/1994 – "Russian-German Cooperation in the Siberian Shelf Seas: Geo-System Laptev Sea", edited by Heidemarie Kassens, Hans-Wolfgang Hubberten, Sergey M. Pryamikov and Rüdiger Stein
- **Heft Nr. 145/1994** – "The 1993 Northeast Water Expedition. Data Report of RV ‚Polarstern' Arctic Cruises IX/2 and 3", edited by Gerhard Kattner and Hans-Jürgen Hirche.
  Heft Nr. 146/1994 – "Radiation Measurements at the German Antarctic Station Neumayer 1982 - 1992", by Torsten Schmidt and Gerd König-Langlo.
  Heft Nr. 147/1994 – „Krustenstrukturen und Verlauf des Kontinentalrandes im Weddell-Meer / Antarktis", von Christian Hübscher.
- * **Heft Nr. 148/1994** – "The expeditions NORILSK/TAYMYR 1993 and BUNGER OASIS 1993/94 of the AWI Research Unit Potsdam", edited by Martin Melles.
- ** **Heft Nr. 149/1994** – „Die Expedition ARCTIC '93. Der Fahrtabschnitt ARK-IX/4 mit FS ‚Polarstern' 1993", herausgegeben von Dieter K. Fütterer.
  Heft Nr. 150/1994 – „Der Energiebedarf der Pygoscelis-Pinguine: eine Synopse", von Boris M. Culik.
  Heft Nr. 151/1994 – "Russian-German Cooperation: The Transdrift I Expedition to the Laptev Sea", edited by Heidemarie Kassens and Valeriy Y. Karpiy.
  Heft Nr. 152/1994 – „Die Expedition ANTARKTIS-X mit FS ‚Polarstern' 1992. Bericht von den Fahrtabschnitten / ANT-X / 1a und 2", herausgegeben von Heinz Miller.
  Heft Nr. 153/1994 – „Aminosäuren und Huminstoffe im Stickstoffkreislauf polarer Meere", von Ulrike Hubberten.
  Heft Nr. 154/1994 – "Regional and seasonal variability in the vertical distribution of mesozooplankton in the Greenland Sea", by Claudio Richter.

Heft Nr. 155/1995 – „Benthos in polaren Gewässern", herausgegeben von Christian Wiencke und Wolf Arntz.

Heft Nr. 156/1995 – "An adjoint model for the determination of the mean oceanic circulation, air-sea fluxes and mixing coefficients", by Reiner Schlitzer.

Heft Nr. 157/1995 – „Biochemische Untersuchungen zum Lipidstoffwechsel antarktischer Copepoden", von Kirsten Fahl.

** **Heft Nr. 158/1995** – „Die Deutsche Polarforschung seit der Jahrhundertwende und der Einfluß Erich von Drygalskis", von Cornelia Lüdecke.

* **Heft Nr. 159/1995** – "The distribution of $\partial^{18}O$ in the Arctic Ocean: Implications for the freshwater balance of the halocline and the sources of deep and bottom waters", by Dorothea Bauch.

* **Heft Nr. 160/1995** – „Rekonstruktion der spätquartären Tiefenwasserzirkulation und Produktivität im östlichen Südatlantik anhand von benthischen Foraminiferenvergesellschaftungen", von Gerhard Schmiedl.

Heft Nr. 161/1995 – „Der Einfluß von Salinität und Lichtintensität auf die Osmolytkonzentrationen, die Zellvolumina und die Wachstumsraten der antarktischen Eisdiatomeen *Chaetoceros sp.* und *Navicula sp.* unter besonderer Berücksichtigung der Aminosäure Prolin", von Jürgen Nothnagel.

Heft Nr. 162/1995 – „Meereistransportiertes lithogenes Feinmaterial in spätquartären Tiefseesedimenten des zentralen östlichen Arktischen Ozeans und der Framstraße", von Thomas Letzig.

Heft Nr. 163/1995 – „Die Expedition ANTARKTIS-XI/2 mit FS ‚Polarstern' 1993/94", herausgegeben von Rainer Gersonde.

Heft Nr. 164/1995 – „Regionale und altersabhängige Variation gesteinsmagnetischer Parameter in marinen Sedimenten der Arktis", von Thomas Frederichs.

Heft Nr. 165/1995 – „Vorkommen, Verteilung und Umsatz biogener organischer Spurenstoffe: Sterole in antarktischen Gewässern", von Georg Hanke.

Heft Nr. 166/1995 – „Vergleichende Untersuchungen eines optimierten dynamisch-thermodynamischen Meereismodells mit Beobachtungen im Weddellmeer", von Holger Fischer.

* **Heft Nr. 167/1995** – „Rekonstruktionen von Paläo-Umweltparametern anhand von stabilen Isotopen und Faunen-Vergesellschaftungen planktischer Foraminiferen im Südatlantik", von Hans-Stefan Niebler

Heft Nr. 168/1995 – „Die Expedition ANTARKTIS XII mit FS ‚Polarstern' 1993/94. Bericht von den Fahrtabschnitten ANT XII/1 und 2", herausgegeben von Gerhard Kattner und Dieter Karl Fütterer

Heft Nr. 169/1995 – „Medizinische Untersuchung zur Circadianrhythmik und zum Verhalten bei Überwinterern auf einer antarktischen Forschungsstation", von Hans Wortmann

Heft-Nr. 170/1995 – DFG-Kolloquium: Terrestrische Geowissenschaften – Geologie und Geophysik der Antarktis.

Heft Nr. 171/1995 – „Strukturentwicklung und Petrogenese des metamorphen Grundgebirges der nördlichen Heimfrontfjella (westliches Dronning Maud Land/Antarktika)", von Wilfried Bauer.

Heft Nr. 172/1995 – „Die Struktur der Erdkruste im Bereich des Scoresby Sund, Ostgrönland: Ergebnisse refraktionsseismischer und gravimetrischer Untersuchungen", von Holger Mandler.

Heft Nr. 173/1995 – „Paläozoische Akkretion am paläopazifischen Kontinentalrand der Antarktis in Nordvictorialand – P-T-D-Geschichte und Deformationsmechanismen im Bowers Terrane", von Stefan Matzer.

Heft Nr. 174/1995 – "The Expedition ARKTIS-X/2 of RV 'Polarstern' in 1994", edited by Hans-W. Hubberten

Heft Nr. 175/1995 – "Russian-German Cooperation: The Expedition TAYMYR 1994", edited by Christine Siegert and Gmitry Bolshiyanov.

* **Heft Nr. 176/1995** – "Russian-German Cooperation: Laptev Sea System", edited by Heidemarie Kassens, Dieter Piepenburg, Jörn Thiede, Leonid Timokhov, Hans-Wolfgang Hubberten and Sergey M. Priamikov.

Heft Nr. 177/1995 – „Organischer Kohlenstoff in spätquartären Sedimenten des Arktischen Ozeans: Terrigener Eintrag und marine Produktivität", von Carsten J. Schubert

Heft Nr. 178/1995 – "Cruise ANTARKTIS XII/4 of RV 'Polarstern' in 1995: CTD-Report", by Jüri Sildam.

Heft Nr. 179/1995 – „Benthische Foraminiferenfaunen als Wassermassen-, Produktions- und Eisdriftanzeiger im Arktischen Ozean", von Jutta Wollenburg.

Heft Nr. 180/1995 – „Biogenopal und biogenes Barium als Indikatoren für spätquartäre Produktivitätsänderungen am antarktischen Kontinentalhang, atlantischer Sektor", von Wolfgang J. Bonn.

Heft Nr. 181/1995 – „Die Expedition ARKTIS X/1 des Forschungsschiffes ‚Polarstern' 1994", herausgegeben von Eberhard Fahrbach.

Heft Nr. 182/1995 – "Laptev Sea System: Expeditions in 1994", edited by Heidemarie Kassens.

Heft Nr. 183/1996 – „Interpretation digitaler Parasound Echolotaufzeichnungen im östlichen Arktischen Ozean auf der Grundlage physikalischer Sedimenteigenschaften", von Uwe Bergmann.

Heft Nr. 184/1996 – "Distribution and dynamics of inorganic nitrogen compounds in the troposphere of continental, coastal, marine and Arctic areas", by Maria Dolores Andrés Hernández.

Heft Nr. 185/1996 – „Verbreitung und Lebensweise der Aphroditen und Polynoiden (Polychaeta) im östlichen Weddellmeer und im Lazarevmeer (Antarktis)", von Michael Stiller.

Heft Nr. 186/1996 – "Reconstruction of Late Quaternary environmental conditions applying the natural radionuclides ^{230}Th, ^{10}Be, ^{231}Pa and ^{238}U: A study of deep-sea sediments from the eastern sector of the Antarctic Circumpolar Current System", by Martin Frank.

Heft Nr. 187/1996 – "The Meteorological Data of the Neumayer Station (Antarctica) for 1992, 1993 and 1994", by Gert König-Langlo and Andreas Herber.

Heft Nr. 188/1996 – „Die Expedition ANTARKTIS-XI/3 mit FS ‚Polarstern' 1994", herausgegeben von Heinz Miller und Hannes Grobe.

Heft Nr. 189/1996 – „Die Expedition ARKTIS-VII/3 mit FS ‚Polarstern' 1990", herausgegeben von Heinz Miller und Hannes Grobe

Heft Nr. 190/1996 – "Cruise report of the Joint Chilean-German-Italian Magellan ‚Victor Hensen' Campaign in 1994", edited by Wolf Arntz and Matthias Gorny.

Heft Nr. 191/1996 – „Leitfähigkeits- und Dichtemessung an Eisbohrkernen", von Frank Wilhelms.

Heft Nr. 192/1996 – „Photosynthese-Charakteristika und Lebensstrategie antarktischer Makroalgen", von Gabriele Weykam.

Heft Nr. 193/1996 – „Heterogene Reaktionen von N_2O_5 und Hbr und ihr Einfluß auf den Ozonabbau in der polaren Stratosphäre", von Sabine Seisel.

Heft Nr. 194/1996 – „Ökologie und Populationsdynamik antarktischer Ophiuroiden (Echinodermata)", von Corinna Dahm.

Heft Nr. 195/1996 – „Die planktische Foraminifere *Neogloboquadrina pachyderma* (Ehrenberg) im Weddellmeer, Antarktis", von Doris Berberich.

Heft Nr. 196/1996 – „Untersuchungen zum Beitrag chemischer und dynamischer Prozesse zur Variabilität des stratosphärischen Ozons über der Arktis", von Birgit Heese

Heft Nr. 197/1996 – "The Expedition ARKTIS-XI/2 of 'Polarstern' in 1995", edited by Gunther Krause.

Heft Nr. 198/1996 – „Geodynamik des Westantarktischen Riftsystems basierend auf Apatit-Spaltspuranalysen", von Frank Lisker.

Heft Nr. 199/1996 – "The 1993 Northeast Water Expedition. Data Report on CTD Measurements of RV 'Polarstern' Cruises ARKTIS IX/2 and 3", by Gerion Budéus and Wolfgang Schneider.

Heft Nr. 200/1996 – "Stability of the Thermohaline Circulation in analytical and numerical models", by Gerrit Lohmann.

Heft Nr. 201/1996 – „Trophische Beziehungen zwischen Makroalgen und Herbivoren in der Potter Cove (King George-Insel, Antarktis)", von Katrin Iken.

Heft Nr. 202/1996 – „Zur Verbreitung und Respiration ökologisch wichtiger Bodentiere in den Gewässern um Svalbard (Arktis)", von Michael K. Schmid.

* **Heft Nr. 203/1996** – „Dynamik, Rauhigkeit und Alter des Meereises in der Arktis – Numerische Untersuchungen mit einem großskaligen Modell", von Markus Harder.

Heft Nr. 204/1996 – „Zur Parametrisierung der stabilen atmosphärischen Grenzschicht über einem antarktischen Schelfeis", von Dörthe Handorf.

Heft Nr. 205/1996 – "Textures and fabrics in the GRIP ice core, in relation to climate history and ice deformation", by Thorsteinn Thorsteinsson.

Heft Nr. 206/1996 – „Der Ozean als Teil des gekoppelten Klimasystems: Versuch der Rekonstruktion der glazialen Zirkulation mit verschieden komplexen Atmosphärenkomponenten", von Kerstin Fieg.

Heft Nr. 207/1996 – „Lebensstrategien dominanter antarktischer Oithonidae (Cyclopoida, Copepoda) und Oncaeidae (Poecilostomatoida, Copepoda) im Bellingshausenmeer", von Cornelia Metz.

Heft Nr. 208/1996 – „Atmosphäreneinfluß bei der Fernerkundung von Meereis mit passiven Mikrowellenradiometern", von Christoph Oelke.

Heft Nr. 209/1996 – „Klassifikation von Radarsatellitendaten zur Meereiserkennung mit Hilfe von Line-Scanner-Messungen", von Axel Bochert.

Heft Nr. 210/1996 – „Die mit ausgewählten Schwämmen (Hexactinellida und Demospongiae) aus dem Weddellmeer, Antarktis, vergesellschaftete Fauna", von Kathrin Kunzmann.

Heft Nr. 211/1996 – "Russian-German Cooperation: The Expedition TAYMYR 1995 and the Expedition KOLYMA 1995", by Dima Yu. Bolshiyanov and Hans-W. Hubberten.

Heft Nr. 212/1996 – "Surface-sediment composition and sedimentary processes in the central Arctic Ocean and along the Eurasian Continental Margin", by Ruediger Stein, Gennadij I. Ivanov, Michael A. Levitan, and Kirsten Fahl.

Heft Nr. 213/1996 – „Gonadenentwicklung und Eiproduktion dreier *Calanus*-Arten (Copepoda): Freilandbeobachtungen, Histologie und Experimente", von Barbara Niehoff

Heft Nr. 214/1996 – „Numerische Modellierung der Übergangszone zwischen Eisschild und Eisschelf", von Christoph Mayer.

Heft Nr. 215/1996 – „Arbeiten der AWI-Forschungsstelle Potsdam in Antarktika, 1994/95", herausgegeben von Ulrich Wand.

Heft Nr. 216/1996 – „Rekonstruktion quartärer Klimaänderungen im atlantischen Sektor des Südpolarmeeres anhand von Radiolarien", von Uta Brathauer.

Heft Nr. 217/1996 – „Adaptive Semi-Lagrange-Finite-Elemente-Methode zur Lösung der Flachwassergleichungen: Implementierung und Parallelisierung", von Jörn Behrens.

Heft Nr. 218/1997 – "Radiation and Eddy Flux Experiment 1995 (REFLEX III)", by Jörg Hartmann, Axel Bochert, Dietmar Freese, Christoph Kottmeier, Dagmar Nagel and Andreas Reuter.

Heft Nr. 219/1997 – „Die Expedition ANTARKTIS-XII mit FS ‚Polarstern' 1995. Bericht vom Fahrtabschnitt ANT-XII/3, herausgegeben von Wilfried Jokat und Hans Oerter.

Heft Nr. 220/1997 – „Ein Beitrag zum Schwerefeld im Bereich des Weddellmeeres, Antarktis. Nutzung von Altimetermessungen des GEOSAT und ERS-1", von Tilo Schöne.

Heft Nr. 221/1997 – „Die Expeditionen ANTARKTIS-XIII/1-2 des Forschungsschiffes ‚Polarstern' 1995/96", herausgegeben von Ulrich Bathmann, Mike Lukas und Victor Smetacek.

Heft Nr. 222/1997 – "Tectonic Structures and Glaciomarine Sedimentation in the South-Eastern Weddell Sea from Seismic Reflection Data", by László Oszkó.

Heft Nr. 223/1997 – „Bestimmung der Meereisdicke mit seismischen und elektromagnetisch-induktiven Verfahren", von Christian Haas.

Heft Nr. 224/1997 – „Troposphärische Ozonvariationen in Polarregionen", von Silke Wessel.

Heft Nr. 225/1997 – „Biologische und ökologische Untersuchungen zur kryopelagischen Amphipodenfauna des arktischen Meereises", von Michael Poltermann.

Heft Nr. 226/1997 – "Scientific Cruise Report of the Arctic Expedition ARK-XI/1 of RV 'Polarstern' in 1995", edited by Eike Rachor.

Heft Nr. 227/1997 – „Der Einfluß kompatibler Substanzen und Kryoprotektoren auf die Enzyme Malatdehydrogenase (MDH) und Glucose-6-phosphat-Dehydrogenase (G6P-DH) aus *Acrosiphonia arcta* (Chlorophyta) der Arktis", von Katharina Kück.

Heft Nr. 228/1997 – „Die Verbreitung epibenthischer Mollusken im chilenischen Beagle-Kanal", von Katrin Linse.

Heft Nr. 229/1997 – „Das Mesozooplankton im Laptevmeer und östlichen Nansen-Becken - Verteilung und Gemeinschaftsstrukturen im Spätsommer", von Hinrich Hanssen.

Heft Nr. 230/1997 – „Modell eines adaptierbaren, rechnergestützten, wissenschaftlichen Arbeitsplatzes am Alfred-Wegener-Institut für Polar- und Meeresforschung", von Lutz-Peter Kurdelski

Heft Nr. 231/1997 – „Zur Ökologie arktischer und antarktischer Fische: Aktivität, Sinnesleistungen und Verhalten", von Christopher Zimmermann

Heft Nr. 232/1997 – „Persistente chlororganische Verbindungen in hochantarktischen Fischen", von Stephan Zimmermann

Heft Nr. 233/1997 – „Zur Ökologie des Dimethylsulfoniumpropionat (DMSP)-Gehaltes temperierter und polarer Phytoplanktongemeinschaften im Vergleich mit Laborkulturen der Coccolithophoride *Emiliania huxleyi* und der antarktischen Diatomee *Nitzschia lecointei*", von Doris Meyerdierks.

Heft Nr. 234/1997 – „Die Expedition ARCTIC '96 des FS ‚Polarstern' (ARK XIII) mit der Arctic Climate System Study (ACSYS)", von Ernst Augstein und den Fahrtteilnehmern.

Heft Nr. 235/1997 – „Polonium-210 und Blei-219 im Südpolarmeer: Natürliche Tracer für biologische und hydrographische Prozesse im Oberflächenwasser des Antarktischen Zirkumpolarstroms und des Weddellmeeres", von Jana Friedrich

Heft Nr. 236/1997 – "Determination of atmospheric trace gas amounts and corresponding natural isotopic ratios by means of ground-based FTIR spectroscopy in the high Arctic", by Arndt Meier.

Heft Nr. 237/1997 – "Russian-German Cooperation: The Expedition TAYMYR/SEVERNAYA ZEMLYA 1996", edited by Martin Melles, Birgit Hagedorn and Dmitri Yu. Bolshiyanov

Heft Nr. 238/1997 – "Life strategy and ecophysiology of Antarctic macroalgae", by Iván M. Gómez.

Heft Nr. 239/1997 – „Die Expedition ANTARKTIS XIII/4-5 des Forschungsschiffes ‚Polarstern' 1996", herausgegeben von Eberhard Fahrbach und Dieter Gerdes.

Heft Nr. 240/1997 – „Untersuchungen zur Chrom-Speziation in Meerwasser, Meereis und Schnee aus ausgewählten Gebieten der Arktis", von Heide Giese.

Heft Nr. 241/1997 – "Late Quaternary glacial history and paleoceanographic reconstructions along the East Greenland continental margin: Evidence from high-resolution records of stable isotopes and ice-rafted debris", by Seung-Il Nam.

Heft Nr. 242/1997 – "Thermal, hydrological and geochemical dynamics of the active layer at a continuous permafrost site, Taymyr Peninsula, Siberia", by Julia Boike.

Heft Nr. 243/1997 – „Zur Paläoozeanographie hoher Breiten: Stellvertreterdaten aus Foraminiferen", von Andreas Mackensen.

Heft Nr. 244/1997 – "The Geophysical Observatory at Neumayer Station, Antarctica, Geomagnetic and seismological observations in 1995 and 1996", by Alfons Eckstaller, Thomas Schmidt, Viola Graw, Christian Müller and Johannes Rogenhagen.

Heft Nr. 245/1997 – „Temperaturbedarf und Biogeographie mariner Makroalgen - Anpassung mariner Makroalgen an tiefe Temperaturen, von Bettina Bischoff-Bäsmann.

Heft Nr. 246/1997 – „Ökologische Untersuchungen zur Fauna des arktischen Meereises", von Christine Friedrich.

Heft Nr. 247/1997 – „Entstehung und Modifizierung von marinen gelösten organischen Substanzen", von Berit Kirchhoff.

Heft Nr. 248/1997 – "Laptev Sea System: Expeditions in 1995", edited by Heidemarie Kassens.

Heft Nr. 249/1997 – "The Expedition ANTARKTIS XIII/3 (EASIZ I) of RV 'Polarstern' to the eastern Weddell Sea in 1996", edited by Wolf Arntz and Julian Gutt.

Heft Nr. 250/1997 – „Vergleichende Untersuchungen zur Ökologie und Biodiversität des Mega-Epibenthos der Arktis und Antarktis", von Adreas Starmans.

Heft Nr. 251/1997 – „Zeitliche und räumliche Verteilung von Mineralvergesellschaftungen in spätquartären Sedimenten des Arktischen Ozeans und ihre Nützlichkeit als Klimaindikatoren während der Glazial/Interglazial-Wechsel", von Christoph Vogt.

Heft Nr. 252/1997 – „Solitäre Ascidien in der Potter Cove (King George Island, Antarktis). Ihre ökologische Bedeutung und Populationsdynamik", von Stephan Kühne.

Heft Nr. 253/1997 – "Distribution and role of microprotozoa in the Southern Ocean", by Christine Klaas.

Heft Nr. 254/1997 – „Die spätquartäre Klima- und Umweltgeschichte der Bunger-Oase, Ostantarktis", von Thomas Kulbe

Heft Nr. 255/1997 – "Scientific Cruise Report of the Arctic Expedition ARK-XIII/2 of RV 'Polarstern' in 1997", edited by Ruediger Stein and Kirsten Fahl.

Heft Nr. 256/1998 – „Das Radionuklid Tritium im Ozean: Meßverfahren und Verteilung von Tritium im Südatlantik und im Weddellmeer", von Jürgen Sültenfuß.

Heft Nr. 257/1998 – „Untersuchungen der Saisonalität von atmosphärischem Dimethylsulfid in der Arktis und Antarktis", von Christoph Kleefeld.

Heft Nr. 258/1998 – „Bellingshausen- und Amundsenmeer: Entwicklung eines Sedimentationsmodells", von Frank-Oliver Nitsche.

Heft Nr. 259/1998 – "The Expedition ANTARKTIS-XIV/4 of RV 'Polarstern' in 1997", by Dieter K. Fütterer.

* **Heft Nr. 260/1998** – „Die Diatomeen der Laptevsee (Arktischer Ozean): Taxonomie und biogeographische Verbreitung", von Holger Cremer

Heft Nr. 261/1998 – „Die Krustenstruktur und Sedimentdecke des Eurasischen Beckens, Arktischer Ozean: Resultate aus seismischen und gravimetrischen Untersuchungen", von Estella Weigelt.

Heft Nr. 262/1998 – "The Expedition ARKTIS-XIII/3 of RV 'Polarstern' in 1997", by Gunther Krause.

Heft Nr. 263/1998 – „Thermo-tektonische Entwicklung von Oates Land und der Shackleton Range (Antarktis) basierend auf Spaltspuranalysen", von Thorsten Schäfer.

Heft Nr. 264/1998 – „Messungen der stratosphärischen Spurengase ClO, HCl, O_3, N_2O, H_2O und OH mittels flugzeuggetragener Submillimeterwellen-Radiometrie", von Joachim Urban.

Heft Nr. 265/1998 – „Untersuchungen zu Massenhaushalt und Dynamik des Ronne Ice Shelfs, Antarktis", von Astrid Lambrecht.

Heft Nr. 266/1998 – "Scientific Cruise Report of the Kara Sea Expedition of RV 'Akademic Boris Petrov' in 1997", edited by Jens Matthiessen and Oleg Stepanets.

Heft Nr. 267/1998 – „Die Expedition ANTARKTIS-XIV mit FS ‚Polarstern' 1997. Bericht vom Fahrtabschnitt ANT-XIV/3", herausgegeben von Wilfried Jokat und Hans Oerter.

Heft Nr. 268/1998 – „Numerische Modellierung der Wechselwirkung zwischen Atmosphäre und Meereis in der arktischen Eisrandzone", von Gerit Birnbaum.

Heft Nr. 269/1998 – "Katabatic wind and Boundary Layer Front Experiment around Greenland (KABEG '97)", by Günther Heinemann.

Heft Nr. 270/1998 – "Architecture and evolution of the continental crust of East Greenland from integrated geophysical studies", by Vera Schlindwein.

Heft Nr. 271/1998 – "Winter Expedition to the Southwestern Kara Sea - Investigations on Formation and Transport of Turbid Sea-Ice", by Dirk Dethleff, Per Loewe, Dominik Weiel, Hartmut Nies, Gesa Kuhlmann, Christian Bahe and Gennady Tarasov.

Heft Nr. 272/1998 – „FTIR-Emissionsspektroskopische Untersuchungen der arktischen Atmosphäre", von Edo Becker.

Heft Nr. 273/1998 – „Sedimentation und Tektonik im Gebiet des Agulhas Rückens und des Agulhas Plateaus (‚SETA-RAP')", von Gabriele Uenzelmann-Neben.

Heft Nr. 274/1998 – "The Expedition ANTARKTIS XIV/2", by Gerhard Kattner.

Heft Nr. 275/1998 – „Die Auswirkung der 'NorthEastWater'-Polynya auf die Sedimentation von NO-Grönland und Untersuchungen zur Paläo-Ozeanographie seit dem Mittelweichsel", von Hanne Notholt.

Heft Nr. 276/1998 – „Interpretation und Analyse von Potentialfelddaten im Weddellmeer, Antarktis: der Zerfall des Superkontinents Gondwana", von Michael Studinger.

Heft Nr. 277/1998 – „Koordiniertes Programm Antarktisforschung". Berichtskolloquium im Rahmen des Koordinierten Programms „Antarktisforschung mit vergleichenden Untersuchungen in arktischen Eisgebieten", herausgegeben von Hubert Miller.

Heft Nr. 278/1998 – „Messung stratosphärischer Spurengase über Ny-Ålesund, Spitzbergen, mit Hilfe eines bodengebundenen Mikrowellen-Radiometers", von Uwe Raffalski.

Heft Nr. 279/1998 – "Arctic Paleo-River Discharge (APARD). A New Research Programme of the Arctic Ocean Science Board (AOSB)", edited by Ruediger Stein.

Heft Nr. 280/1998 – „Fernerkundungs- und GIS-Studien in Nordostgrönland" von Friedrich Jung-Rothenhäusler.

Heft Nr. 281/1998 – „Rekonstruktion der Oberflächenwassermassen der östlichen Laptevsee im Holozän anhand von aquatischen Palynomorphen", von Martina Kunz-Pirrung.

Heft Nr. 282/1998 – "Scavenging of ^{231}Pa and ^{230}Th in the South Atlantic: Implications for the use of the ^{231}Pa/^{230}Th ratio as a paleoproductivity proxy", by Hans-Jürgen Walter.

Heft Nr. 283/1998 – „Sedimente im arktischen Meereis - Eintrag, Charakterisierung und Quantifizierung", von Frank Lindemann.

Heft Nr. 284/1998 – „Langzeitanalyse der antarktischen Meereisbedeckung aus passiven Mikrowellendaten", von Christian H. Thomas.

Heft Nr. 285/1998 – „Mechanismen und Grenzen der Temperaturanpassung beim Pierwurm *Arenicola marina* (L.)", von Angela Sommer.

Heft Nr. 286/1998 – „Energieumsätze benthischer Filtrierer der Potter Cove (King George Island, Antarktis)", von Jens Kowalke.

Heft Nr. 287/1998 – "Scientific Cooperation in the Russian Arctic: Research from the Barents Sea up to the Laptev Sea", edited by Eike Rachor.

Heft Nr. 288/1998 – „Alfred Wegener. Kommentiertes Verzeichnis der schriftlichen Dokumente seines Lebens und Wirkens", von Ulrich Wutzke.

Heft Nr. 289/1998 – "Retrieval of Atmospheric Water Vapor Content In Polar Regions Using Spaceborne Microwave Radiometry", by Jungang Miao.

Heft Nr. 290/1998 – „Strukturelle Entwicklung und Petrogenese des nördlichen Kristallingürtels der Shackleton Range, Antarktis: Proterozoische und Ross-orogene Krustendynamik am Rand des Ostantarktischen Kratons", von Axel Brommer.

Heft Nr. 291/1998 – „Dynamik des arktischen Meereises - Validierung verschiedener Rheologieansätze für die Anwendung in Klimamodellen", von Martin Kreyscher.

Heft Nr. 292/1998 – „Anthropogene organische Spurenstoffe im Arktischen Ozean, Untersuchungen chlorierter Biphenyle und Pestizide in der Laptevsee, technische und methodische Entwicklungen zur Probenahme in der Arktis und zur Spurenstoffanalyse", von Sven Utschakowski.

Heft Nr. 293/1998 – „Rekonstruktion der spätquartären Klima- und Umweltgeschichte der Schirmacher Oase und des Wohlthat Massivs (Ostantarktika)", von Markus Julius Schwab.

Heft Nr. 294/1998 – „Besiedlungsmuster der benthischen Makrofauna auf dem ostgrönländischen Kontinentalhang", von Klaus Schnack.

Heft Nr. 295/1998 – „Gehäuseuntersuchungen an planktischen Foraminiferen hoher Breiten: Hinweise auf Umweltveränderungen während der letzten 140.000 Jahre", von Harald Hommers.

Heft Nr. 296/1998 – "Scientific Cruise Report of the Arctic Expedition ARK-XIII/1 of RV 'Polarstern' in 1997", edited by Michael Spindler, Wilhelm Hagen and Dorothea Stübing.

Heft Nr. 297/1998 – „Radiometrische Messungen im arktischen Ozean - Vergleich von Theorie und Experiment", von Klaus-Peter Johnsen.

Heft Nr. 298//1998 – "Patterns and Controls of CO_2 Fluxes in Wet Tundra Types of the Taimyr Peninsula, Siberia - the Contribution of Soils and Mosses", by Martin Sommerkorn.

Heft Nr. 299/1998 – "The Potter Cove coastal ecosystem, Antarctica. Synopsis of research performed within the frame of the Argentinean-German Cooperation at the Dallmann Laboratory and Jubany Station (Kind George Island, Antarctica, 1991 - 1997)", by Christian Wiencke, Gustavo Ferreyra, Wolf Arntz & Carlos Rinaldi.

Heft Nr. 300/1999 – "The Kara Sea Expedition of RV 'Akademik Boris Petrov' 1997: First Results of a Joint Russian-German Pilot Study", edited by Jens Matthiessen, Oleg V. Stepanets, Ruediger Stein, Dieter K. Fütterer, and Eric M. Galimov.

Heft Nr. 301/1999 – "The Expedition ANTARKTIS XV/3 (EASIZ II)", edited by Wolf E. Arntz and Julian Gutt.

Heft Nr. 302/1999 – „Sterole im herbstlichen Weddellmeer (Antarktis): Großräumige Verteilung, Vorkommen und Umsatz", von Anneke Mühlebach.

Heft Nr. 303/1999 – „Polare stratosphärische Wolken: Lidar-Beobachtungen, Charakterisierung von Entstehung und Entwicklung", von Jens Biele.

Heft Nr. 304/1999 – „Spätquartäre Paläoumweltbedingungen am nördlichen Kontinentalrand der Barents- und Kara-See. Eine Multi-Parameter-Analyse", von Jochen Knies.

Heft Nr. 305/1999 – "Arctic Radiation and Turbulence Interaction Study (ARTIST)", by Jörg Hartmann, Frank Albers, Stefania Argentini, Axel Bochert, Ubaldo Bonafé, Wolfgang Cohrs, Alessandro Conidi, Dietmar Freese, Teodoro Georgiadis, Alessandro Ippoliti, Lars Kaleschke, Christof Lüpkes, Uwe Maixner, Giangiuseppe Mastrantonio, Fabrizio Raveggnani, Andreas Reuter, Giuliano Trivellone and Angelo Viola.

Heft Nr. 306/1999 – "German-Russian Cooperation: Biogeographic and biostratigraphic investigations on selected sediment cores from the Eurasian continental margin and marginal seas to analyze the Late Quaternary climatic variability", edited by Robert R. Spielhagen, Max S. Barash, Gennady I. Ivanov, and Jörn Thiede.

Heft Nr. 307/1999 – „Struktur und Kohlenstoffbedarf des Makrobenthos am Kontinentalhang Ostgrönlands", von Dan Seiler.

Heft Nr. 308/1999 – "ARCTIC '98: The Expedition ARK-XIV/1a of RV 'Polarstern' in 1998", edited by Wilfried Jokat.

Heft Nr. 309/1999 – „Variabilität der arktischen Ozonschicht: Analyse und Interpretation bodengebundener Millimeterwellenmessungen", von Björn-Martin Sinnhuber.

Heft Nr. 310/1999 – „Rekonstruktion von Meereisdrift und terrigenem Sedimenteintrag im Spätquartär: Schwermineralassoziationen in Sedimenten des Laptev-See-Kontinentalrandes und des zentralen Arktischen Ozeans", von Marion Behrends.

Heft Nr. 311/1999 – „Parameterisierung atmosphärischer Grenzschichtprozesse in einem regionalen Klimamodell der Arktis", von Christoph Abegg.

Heft Nr. 312/1999 – „Solare und terrestrische Strahlungswechselwirkung zwischen arktischen Eisflächen und Wolken", von Dietmar Freese.

Heft Nr. 313/1999 – "Snow accumulation on Ekströmisen, Antarctica", by Elisabeth Schlosser, Hans Oerter and Wolfgang Graf.

Heft Nr. 314/1999 – „Die Expedition ANTARKTIS XV/4 des Forschungsschiffes ‚Polarstern' 1998", herausgegeben von Eberhard Fahrbach.

Heft Nr. 315/1999 – "Expeditions in Siberia in 1998", edited by Volker Rachold.

Heft Nr. 316/1999 – „Die postglaziale Sedimentationsgeschichte der Laptewsee: schwermineralogische und sedimentpetrographische Untersuchungen", von Bernhard Peregovich.

Heft-Nr. 317/1999 – „Adaption an niedrige Temperaturen: Lipide in Eisdiatomeen", von Heidi Lehmal.

Heft-Nr. 318/1999 – „Effiziente parallele Lösungsverfahren für elliptische partielle Differentialgleichungen in der numerischen Ozeanmodellierung", von Natalja Rakowsky.

Heft-Nr. 319/1999 – "The Ecology of Arctic Deep-Sea Copepods (Euchaetidae and Aetideidae). Aspects of their Distribution, Trophodynamics and Effect on the Carbon Flux", by Holger Auel.

Heft-Nr. 320/1999 – "Modellstudien zur arktischen stratosphärischen Chemie im Vergleich mit Meßdaten", von Veronika Eyring.

Heft-Nr. 321/1999 – "Analyse der optischen Eigenschaften des arktischen Aerosols", von Dagmar Nagel.

Heft-Nr. 322/1999 – "Messungen des arktischen stratosphärischen Ozons: Vergleich der Ozonmessungen in Ny-Ålesund, Spitzbergen, 1997 und 1998", von Jens Langer.

Heft-Nr. 323/1999 – "Untersuchung struktureller Elemente des südöstlichen Weddellmeeres / Antarktis auf der Basis mariner Potentialfelddaten", von Uwe F. Meyer.

Heft-Nr. 324/1999 – "Geochemische Verwitterungstrends eines basaltischen Ausgangsgesteins nach dem spätpleistozänen Gletscherrückzug auf der Taimyrhalbinsel (Zentralsibirien) - Rekonstruktion an einer sedimentären Abfolge des Lama Sees", von Stefanie K. Harwart.

Heft-Nr. 325/1999 – "Untersuchungen zur Hydrologie des arktischen Meereises - Konsequenzen für den kleinskaligen Stofftransport", von Johannes Freitag.

Heft-Nr. 326/1999 – "Die Expedition ANTARKTIS XIV/2 des Forschungsschiffes 'Polarstern' 1998", herausgegeben von Eberhard Fahrbach.

Heft-Nr. 327/1999 – "Gemeinschaftsanalytische Untersuchungen der Harpacticoidenfauna der Magellanregion, sowie erste similaritätsanalytische Vergleiche mit Assoziationen aus der Antarktis", von Kai Horst George.

Heft-Nr. 328/1999 – "Rekonstruktion der Paläo-Umweltbedingungen am Laptev-See-Kontinentalrand während der beiden letzten Glazial/Interglazial-Zyklen anhand sedimentologischer und mineralogischer Untersuchungen", von Claudia Müller.

Heft-Nr. 329/1999 – "Räumliche und zeitliche Variationen atmosphärischer Spurengase aus bodengebundenen Messungen mit Hilfe eines Michelson interferometers", von Justus Notholt.

Heft-Nr. 330/1999 – "The 1998 Danish-German Excursion to Disko Island, West Greenland", edited by Angelika Brandt, Helge A. Thomsen, Henning Heide-Jørgensen, Reinhard M. Kristensen and Hilke Ruhberg.

Heft-Nr. 331/1999 – "Poseidon" Cruise No. 243 (Reykjavik - Greenland - Reykjavik, 24 August - 11 September 1998): Climate change and the Viking-age fjord environment of the Eastern Settlement, sw Greenland", by Gerd Hoffmann, Antoon Kuijpers, and Jörn Thiede.

Heft-Nr. 332/1999 – "Modeling of marine biogeochemical cycles with an emphasis on vertical particle fluxes", by Regina Usbeck.

Heft-Nr. 333/1999 – "Die Tanaidaceenfauna des Beagle-Kanals und ihre Beziehungen zur Fauna des antarktischen Festlandsockels", von Anja Schmidt.

Heft-Nr. 334/1999 – "D-Aminosäuren als Tracer für biogeochemische Prozesse im Fluß-Schelf-Ozean-System der Arktis", von Hans Peter Fitznar.

Heft-Nr. 335/1999 – "Ökophysiologische Ursachen der limitierten Verbreitung reptanter decapoder Krebse in der Antarktis", von Markus Frederich.

Heft-Nr. 336/1999 – "Ergebnisse der Untersuchung des grönländischen Inlandeises mit dem elektromagnetischen Reflexionsverfahren in der Umgebung von NGRIP", von Fidan Göktas.

Heft-Nr. 337/1999 – "Paleozoic and mesozoic tectono-thermal history of central Dronning Maud Land, East Antarctica, – evidence from fission-track thermochronology", by Stefanie Meier.

Heft-Nr. 338/1999 – "Probleme hoher Stoffwechselraten bei Cephalopoden aus verschiedenen geographischen Breiten", von Susanne Zielinski.

Heft-Nr. 339/1999 – "The Expedition ARKTIS XV/1", edited by Gunther Krause.

Heft-Nr. 340/1999 – "Microbial Properties and Habitats of Permafrost Soils on Taimyr Peninsula, Central Siberia", by Nicolé Schmidt.

Heft-Nr. 341/1999 – "Photoacclimation of phytoplankton in different biogeochemical provinces of the Southern Ocean and its significance for estimating primary production", by Astrid Bracher.

Heft-Nr. 342/1999 – "Modern and Late Quaternary Depositional Environment of the St. Anna Trough Area, Northern Kara Sea", edited by Ruediger Stein, Kirsten Fahl, Gennadij I. Ivanov, Michael A. Levitan, and Gennady Tarasov.

Heft-Nr. 343/1999 – "ESF-IMPACT Workshop/Oceanic impacts: mechanisms and environmental perturbations, 15-17 April 1999 in Bremerhaven", edited by Rainer Gersonde and Alexander Deutsch.

Heft-Nr. 344/1999 – "Die Klimageschichte der hohen nördlichen Breiten seit dem mittleren Miozän: Hinweise aus sedimentologischen-tonmineralogischen Analysen (ODP Leg 151, zentrale Framstraße)", von Amelie Winkler.

Heft-Nr. 345/1999 – "Kurzfristige Klimaschwankungen im Scotiameer und Ergebnisse zur Kalbungsgeschichte der Antarktis während der letzten 200000 Jahre", von Annette Hofmann.

Heft-Nr. 346/2000 – "Glazialmarine Sedimentationsentwicklung am westantarktischen Kontinentalrand im Amundsen- und Bellingshausenmeer - Hinweise auf Paläoumweltveränderungen während der quartären Klimazyklen", von Claus-Dieter Hillenbrand.

Heft-Nr. 347/2000 – "Zur Ökologie des Phytoplanktons im arktischen Laptevmeer - ein jahreszeitlicher Vergleich", von Kirsten Tuschling.

Heft-Nr. 348/2000 – "Untersuchungen zum Fettstoffwechsel des Südlichen See-Elefanten *(Mirounga leonina L.)* in der Antarktis", von Sven Ramdohr.

Heft-Nr. 349/2000 – "Licht- und Temperatureinfluß auf den enzymatischen Oxidationsschutz der antarktischen Eisdiatomee *Entomoneis kufferathii Manguin",* von Raimund Schriek.

Heft-Nr. 350/2000 – "Die Expedition ARKTIS XV/3 des Forschungsschiffes 'Polarstern' 1999", herausgegeben von Ursula Schauer.

Heft-Nr. 351/2000 – "Dissolution kinetics of biogenic silica in marine environments", by Dirk Rickert.

Heft-Nr. 352/2000 – "Geometrie und Kinematik des tertiären Deckenbaus im West Spitzbergen Falten- und Überschiebungsgürtel, Brøggerhalvøya, Svalbard", von Kerstin Saalmann.

Heft-Nr. 353/2000 – "Zur Ökologie der Benthos-Foraminiferen der Potter Cove (King George Island, Antarktis)", von Michaela Mayer.

Heft-Nr. 354/2000 – "Expeditions in Siberia in 1999", edited by Volker Rachold.

Heft-Nr. 355/2000 – "Temperaturrekonstruktion im Tropischen Atlantik für das Letzte Glaziale Maximum: CLIMAP neu betrachtet", von Carsten Porthun.

Heft-Nr. 356/2000 – "Niederfrequente Variabilität großräumiger atmosphärischer Zirkulationsstrukturen in spektralen Modellen niederer Ordnung", von Antje Weisheimer.

Heft-Nr. 357/2000 – "Late Quaternary paleoclimatic reconstructions along the Eurasian continental margin", by Hans Peter Kleiber.

Heft-Nr. 358/2000 – "Holocene environmental history of East Greenland - evidence from lake sediments", by Bernd Wagner.

Heft-Nr. 359/2000 – "Scientific Cooperation in the Russian Arctic: Ecology of the White Sea with Emphasis on its Deep Basin", edited by Eike Rachor.

Heft-Nr. 360/2000 – "Scientific Cruise Report of the Joint Russian-German Kara-Sea Expedition of RV 'Akademik Boris Petrov' in 1999", edited by Ruediger Stein and Oleg Stepanets.

Heft-Nr. 361/2000 – "Planktic foraminifer ecology and stable isotope geochemistry in the Arctic Ocean: implications from water column and sediment surface studies for quantitative reconstructions of oceanic parameters.", by Renate Volkmann.

Heft-Nr. 362/2000 – "Eisbohrkernuntersuchungen zur räumlichen und zeitlichen Variabilität von Temperatur und Niederschlagsrate im Spätholozän in Nordgrönland", von Matthias Schwager.

Heft-Nr. 363/2000 – "Benthische Peracarida (Crustacea, Malacostraca) des arktischen Mellemfjordes, West-Grönland", von Anne-Nina Lörz.

Heft-Nr. 364/2000 – "Die Expeditionen ANTARKTIS XVI/3-4 des Forschungsschiffes 'Polarstern' 1999", herausgegeben von Ulrich Bathmann, Victor Smetacek und Manfred Reinke.

Heft-Nr. 365/2000 – "Organic carbon in Late Quaternary sediments: Responses to paleoenvironmental changes in the Laptev and Kara seas (Arctic Ocean)", by Bettina Boucsein.

Heft-Nr. 366/2000 – "Flugzeuggestützte Topographie- und Schweremessung: Meßsystem und Anwendung auf die Region Framstraße, Spitsbergen und Nordostgrönland", von Tobias Boebel.

Heft-Nr. 367/2000 – "Messung dielektrischer Eigenschaften polarer Eiskerne", von Frank Wilhelms.

Heft-Nr. 368/2000 – "The Expedition ARKTIS-XV/2 of RV 'Polarstern' in 1999", edited by Wilfried Jokat.

Heft-Nr. 369/2000 – "Interpretation seismischer und gravimetrischer Daten des Weddellmeeres, Antarktis", von Johannes Rogenhagen.

Heft-Nr. 370/2000 – "Struktureigenschaften und Nahrungsbedarf der Zoobenthosgemeinschaften im Bereich des Lomonossowrückens im Arktischen Ozean", von Hendrik Deubel.

Heft-Nr. 371/2000 – "Die Rolle der Schneebedeckung für die Kryptogamen-Vegetation in der maritimen Antarktis (Potter-Halbinsel), King George Island)", von Jana Barbro Winkler.

Heft-Nr. 372/2000 – "Biodiversity of the Weddell Sea: macrozoobenthic species (demersal fish included) sampled during the expedition ANT XIII/3 (EASIZ I) with RV 'Polarstern'", edited by Julian Gutt, Boris I. Sirenko, Wolf E. Arntz, Igor S. Smirnov, and Claude De Broyer.

* vergriffen / out of print.
** nur noch beim Autor / only from the author.