



# FISH ATLAS OF THE SOUTHERN OCEAN, BASED ON THE AKES 2008 EXPEDITION



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Fish Atlas of the Southern Ocean, based on the AKES 2008 expedition

Fiskeatlas fra Sørishavet basert på AKES toktet i 2008

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### **Summary (English):**

AKES (“Antarctic Krill and Ecosystem Studies”, 2008-2011) was an IMR project that focused on mapping the abundance and distribution of Antarctic krill (*Euphausia superba*) in the central to eastern parts of the Atlantic sector of the Southern Ocean. Through the project IMR has contributed with highly relevant science and new knowledge to the management of ecosystem resources within the management area of CCAMLR (“Commission for the Conservation of Marine Living Resources”). The expedition was conducted during two consecutive surveys carried out during the Austral summer of 2008. In these areas, detailed knowledge of the ecosystem is limited and poorly described. This report presents results from taxonomic analyses performed on fish worked up from trawl catches in the upper ~750 m of the water column. Taxonomic identifications are based on morphological characteristics using the most updated identification keys. Following identification, each species or genus is illustrated by an image, while its distribution and numbers caught are presented in associated figures and tables. This work is important for future surveys in the Southern Atlantic when assessing ecosystem change, bycatch related to ongoing and new fisheries, management as well as the functionality and design of future marine protected areas (MPA's). For further descriptions of relevant survey design, methodology, trawl gear and associated investigations, see descriptions in Iversen et al. (2008) and Krafft et al. (2010).

### **Summary (Norwegian):**

AKES («Antarctic Krill and Ecosystem Studies», 2008-2011) var et HI-prosjekt med primært fokus på kartlegging av forekomst og fordeling av Antarktisk krill (*Euphausia superba*) i de sentrale og østlige deler av den Atlantiske sektor i Sørishavet. Ved gjennomføringen av prosjektet har HI bidratt med en betydelig mengde ny kunnskap og vitenskapelige data til forvaltning av økosystemressursene i ansvarsområdet til CCAMLR («Commission for the Conservation of Marine Living Resources»). Den todelte ekspedisjonen ble gjennomført i løpet av den Australiske sommeren i 2008. I store deler av nevnte havområde er kunnskapen om økosystemet begrenset og mangelfullt beskrevet. Denne rapporten presenterer resultater fra det taksonomiske arbeidet utført på fisk som ble opparbeidet fra trålfangster tatt i de øvre ~750 m av vannsøylen. Taksonomisk identifikasjon er basert på morfologiske karakteristika og bruk av tilgjengelige og oppdaterte identifikasjonsnøkler. Denne rapporten gir en systematisk fremstilling av artssammensetning, antall, utbredelse og størrelsesfordelte data. Dette arbeidet har stor nytteverdi ved fremtidige undersøkelser i denne delen av Sørishavet, særlig i forhold til komparative analyser av økosystem endringer, forvaltningshensyn i forhold til fiskerier og bifangst, samt funksjonalitet og design av fremtidige marine verneområder (MPA'er). For ytterligere dokumentasjon av survey design, metodikk, trålredskap og assosierede undersøkelser, vises til beskrivelser presentert i Iversen et al. (2008) og Krafft et al. (2010).

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## 1 - Background

AKES 2008-2011 (Antarctic Krill and Ecosystem Studies) was an IMR (Institute of Marine Research) project primarily aimed to investigate the abundance and distribution of Antarctic krill (*Euphausia superba*) in a region of the Atlantic sector of the Southern Ocean (Figure 1), where knowledge about the ecosystem is limited. The expedition consisting of two survey legs carried out during the Austral summer of 2008 (4 January to 28 March) in the CCAMLR (Convention on the Conservation of Antarctic Marine Living Resources) area.

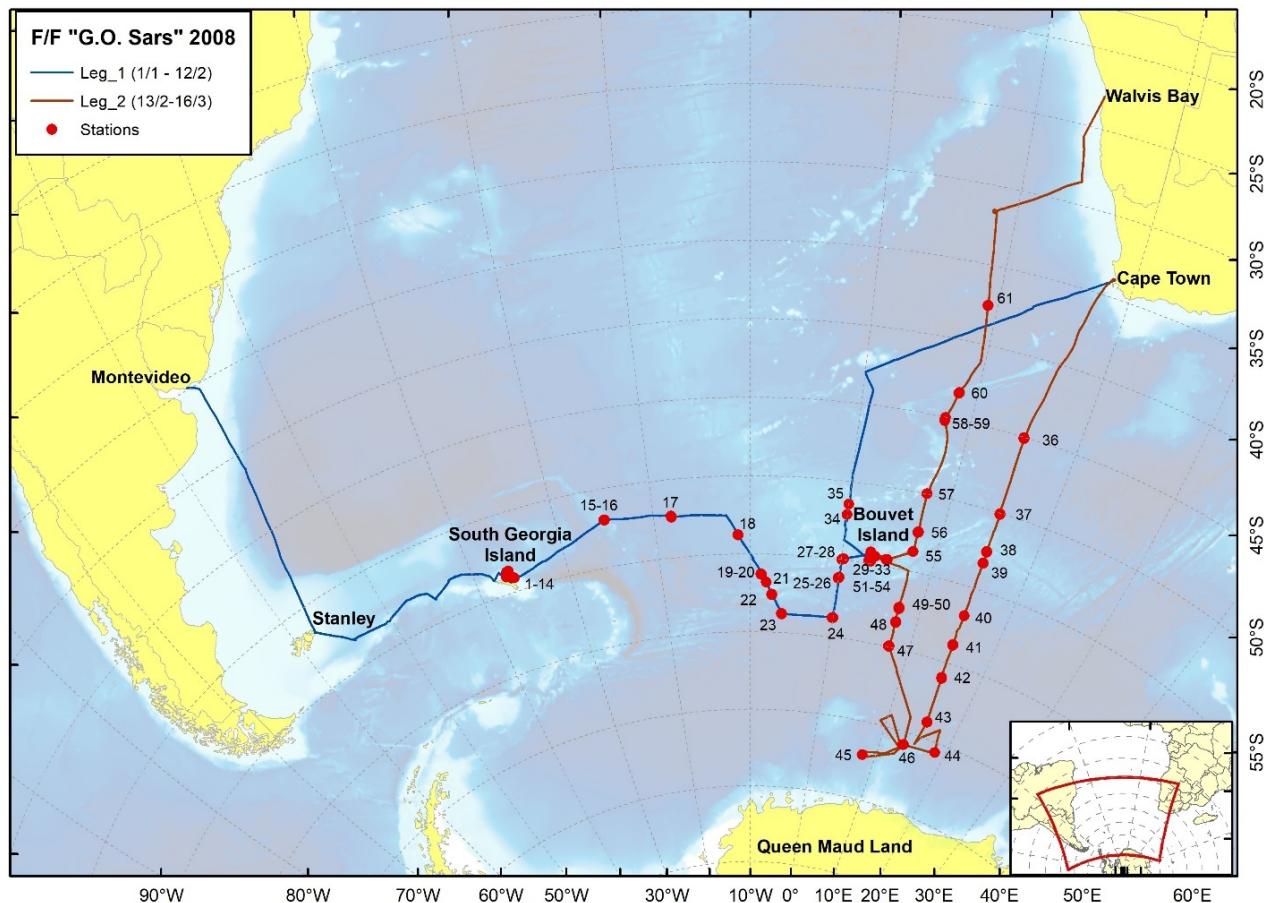


Figure 1. The AKES survey was conducted as two separate expeditions or legs. Leg\_1 started from Montevideo, Uruguay 4th of January 2008 and ended in Cape Town, South Africa 14th of February. Leg\_2 started when the vessel departed Cape Town 19th of February 2008 to survey the Southern Ocean along two transects, to and from the Astrid Ridge, and ended 28th of March 2008 in Walvis Bay, Namibia.

Trawling was carried out throughout the area to a maximum of ~750 m depth to the surface. For description of the survey design, methodology and trawl gear, see Krafft et al. (2010).

This report focuses on describing the results based on the fish that were sorted from the total catch where individuals were determined to the highest taxonomic level possible. Total weight per species and individual lengths were measured, following standard methodology described in Mjanger et al. (2007). Taxonomic identification was based on Gon & Heemstra (1990). In cases where taxonomic identification from the work carried out on board needed further validation; they were photographed and frozen for further onshore

analyses. Each identified species or taxon is presented with an image, distribution map, station information (including number of specimens, weight (W), total catch weight of fish (TW fish) and total weight of catch (TW catch)), and for the most abundant species a length histogram. Lengths of fish are normally measured as total length (TL) from tip of snout to the end of the caudal fin ("untouched") or as standard length (SL) from tip of snout to the posterior end of the last vertebra. Validity of scientific names was checked with Fricke et al. (2020), systematic order is according to van der Laan et al. (2020), and English common names according to Froese & Pauly (2019).

## 2 - List of species account

### 2.1 - Nemichthyidae

#### 2.1.1 - *Avocettina paucipora* Nielsen & Smith, 1978



Figure 2a. Exemplary image of *Avocettina paucipora*.

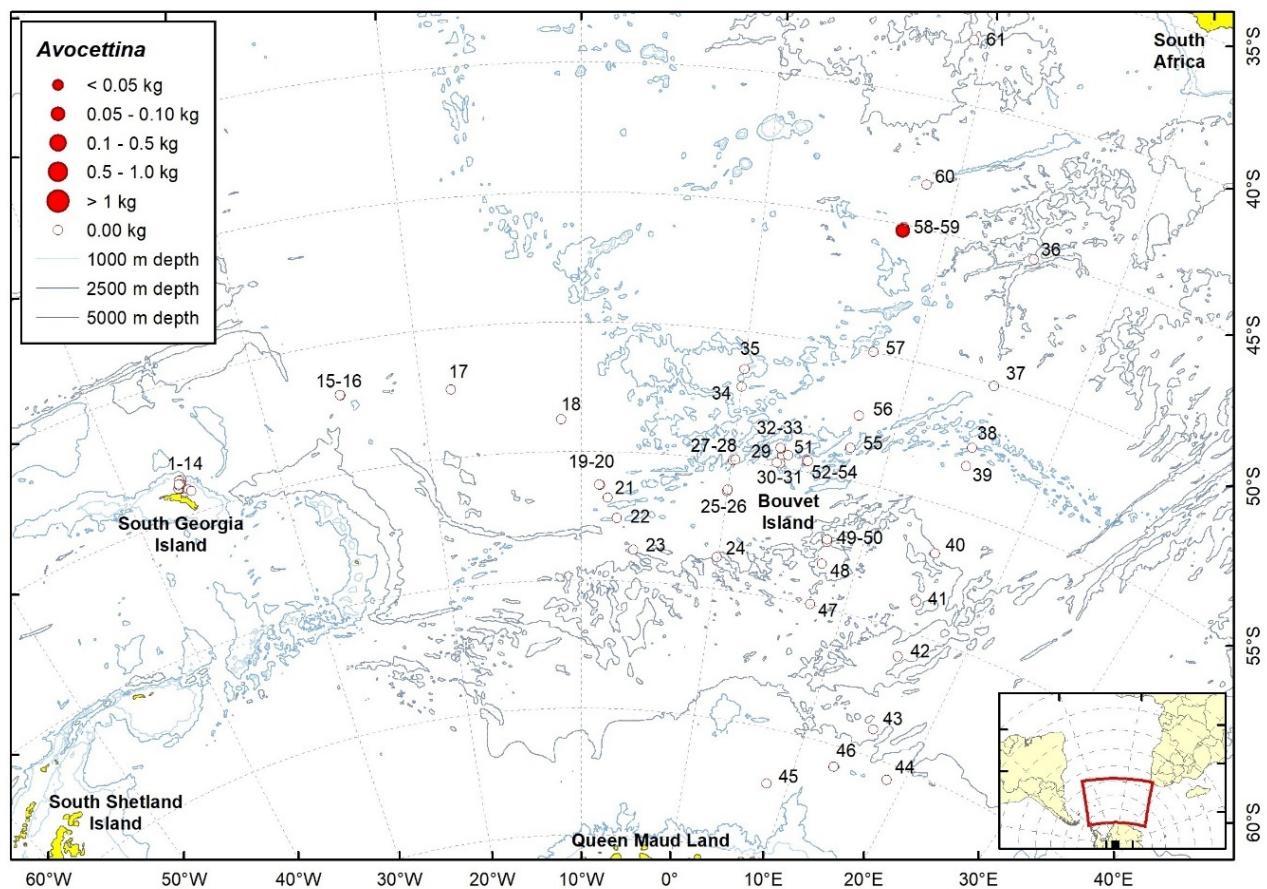


Figure 2b. Trawl stations with presence of *Avocettina paucipora* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 1. Station information with presence of *Avocettina paucipora*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	2	92,0	10,17	19,92

## 2.2 - Serrivomeridae

### 2.2.1 - *Serrivomer beanii*



Figure 3a. Exemplary image of *Serrivomer beanii*.

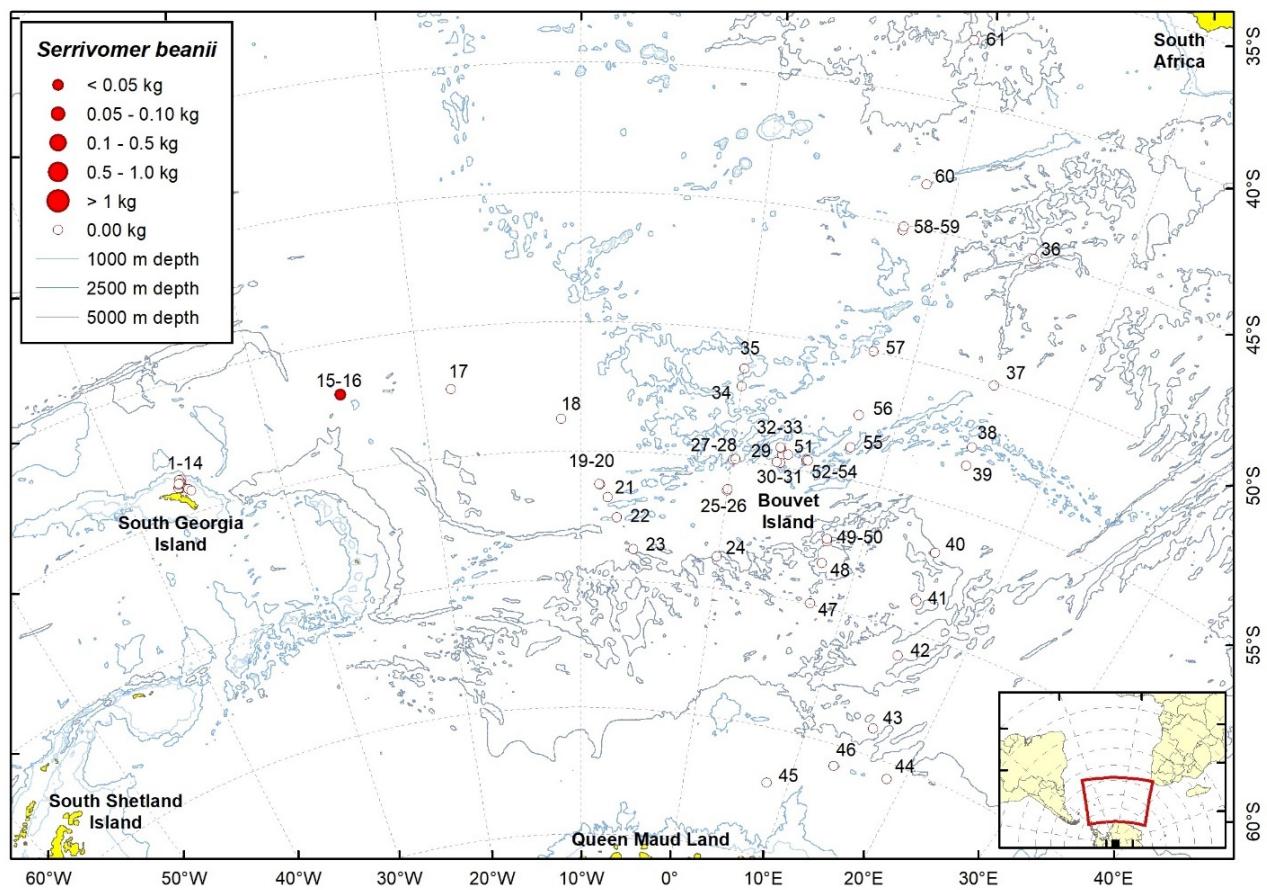


Figure 3b. Trawl stations with presence of *Serrivomer beanii* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 2. Station information with presence of *Serrivomer beanii*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,99 S	25,00 W	1	3,4	3,23	45,05



## 2.3 - Microstomatidae

### 2.3.1 - *Nansenia antarctica* Kawaguchi & Butler, 1984



Figure 4a. Exemplary image of *Nansenia antarctica*.

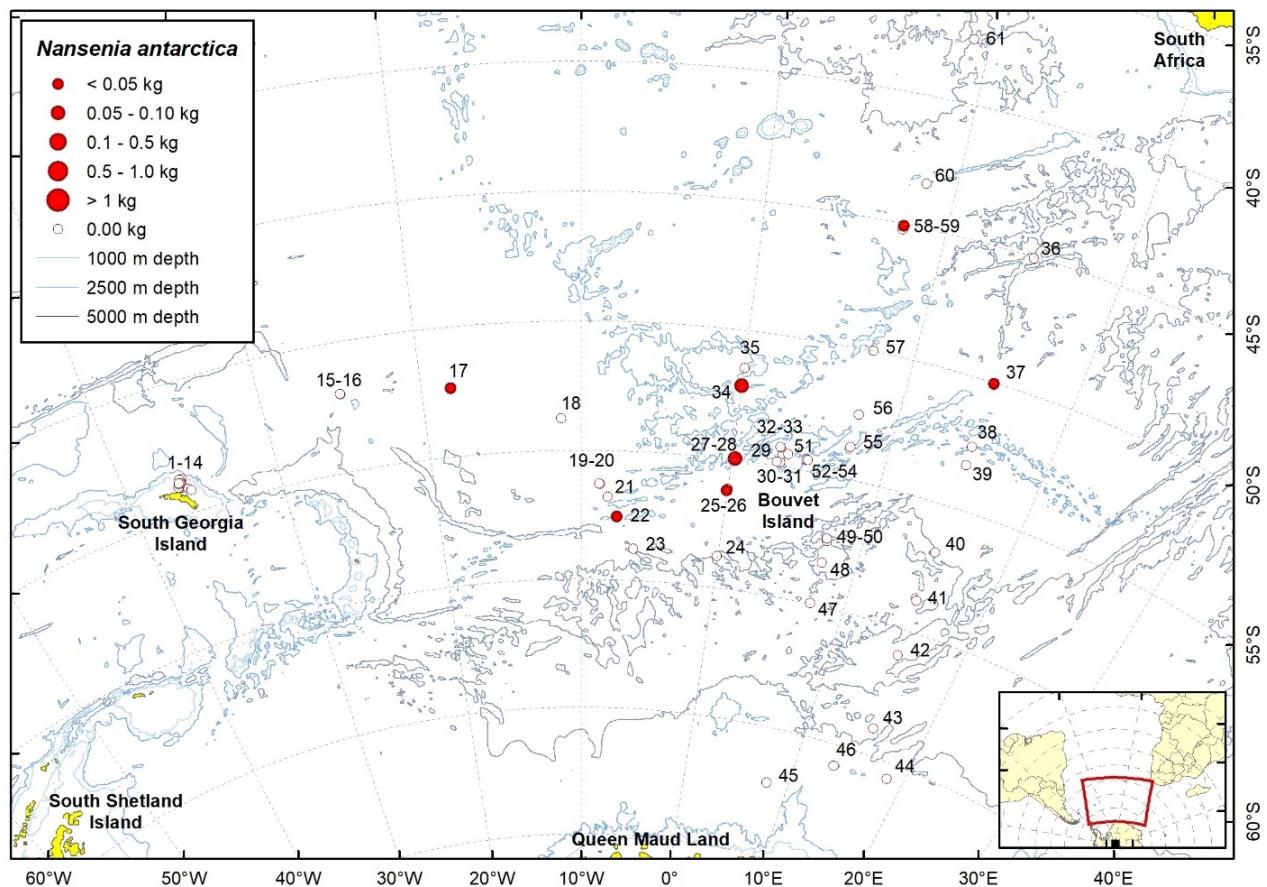


Figure 4b. Trawl stations with presence of *Nansenia antarctica* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 3. Station information with presence of *Nansenia antarctica*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
17	26.01.2008	52,33 S	18,16 W	2	13,2	1,20	26,43
22	30.01.2008	57,53 S	7,49 W	1	12,7	0,67	20,43

25	01.02.2008	56,21	S	0,05	W	3	31,0	0,18	44,71
28	02.02.2008	54,95	S	0,20	E	2	79,4	0,47	89,03
34	06.02.2008	52,12	S	0,02	W	3	83,6	4,15	44,70
37	24.02.2008	50,04	S	15,02	E	1	22,0	3,32	14,43
59	17.03.2008	45,06	S	7,67	E	2	3,9	1,02	5,63

## 2.4 - Bathylagidae

### 2.4.1 - *Bathylagus antarcticus* Günther, 1878



Figure 5a. Exemplary image of *Bathylagus antarcticus*.

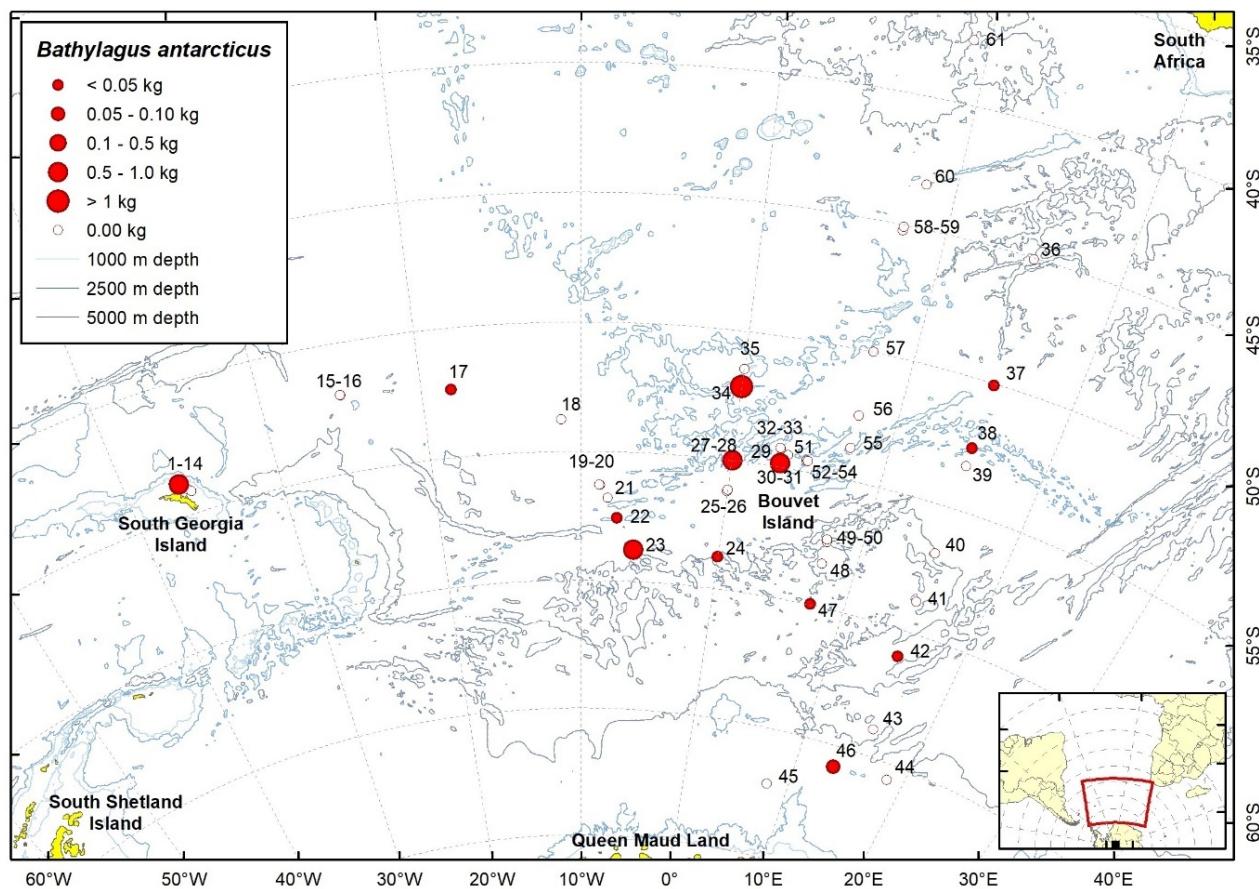


Figure 5b. Trawl stations with presence of *Bathylagus antarcticus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 4. Station information with presence of *Bathylagus antarcticus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
12	22.01.2008	53,75 S	36,50 W	50	908,0	0,91	7,50
17	26.01.2008	52,33 S	18,16 W	17	10,9	1,20	26,43
22	30.01.2008	57,53 S	7,49 W	26	9,9	0,67	20,43
23	30.01.2008	58,76 S	6,22 W	142	721,6	4,14	13,02
24	31.01.2008	58,76 S	0,04 W	7	36,4	1,49	29,02
27	02.02.2008	54,99 S	0,06 E	50	908,0	0,91	0,91
30	03.02.2008	54,84 S	3,23 E	115	859,6	1,44	273,78
34	06.02.2008	52,12 S	0,02 W	131	1980,0	4,15	44,70
37	24.02.2008	50,04 S	15,02 E	5	14,0	3,32	14,43
38	25.02.2008	52,57 S	15,00 E	48	14,1	3,66	49,50
42	28.02.2008	60,98 S	15,13 E	65	35,0	0,59	50,67
46	05.03.2008	65,80 S	13,38 E	87	83,0	1,59	32,17
47	07.03.2008	59,93 S	7,42 E	37	24,5	1,58	44,63

### Bathylagus antarcticus

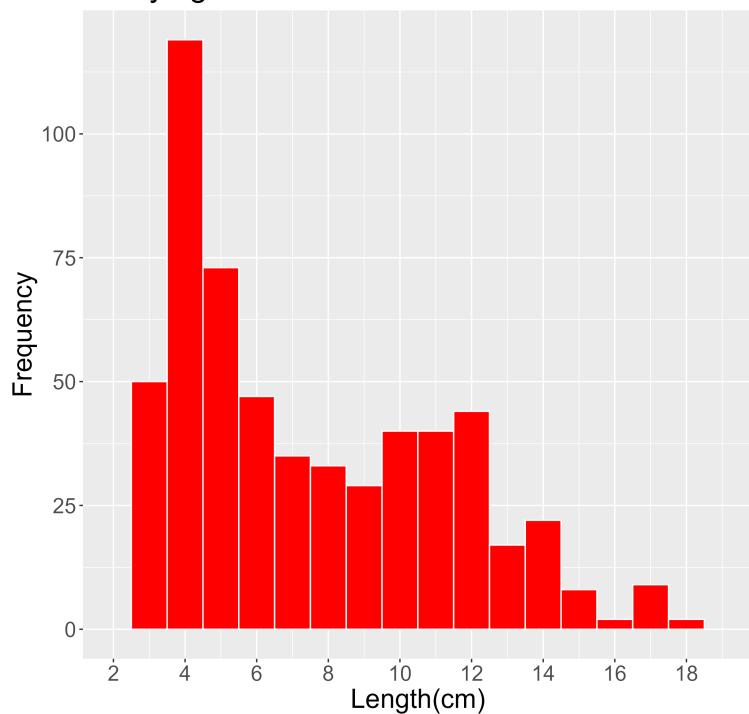


Figure 6. Length frequency of *Bathylagus antarcticus* for all trawl stations combined. Frequency shown as number of individuals.

#### 2.4.2 - *Bathylagus tenuis* Kobyliansky, 1986



Figure 7a. Exemplary image of *Bathylagus tenuis*.

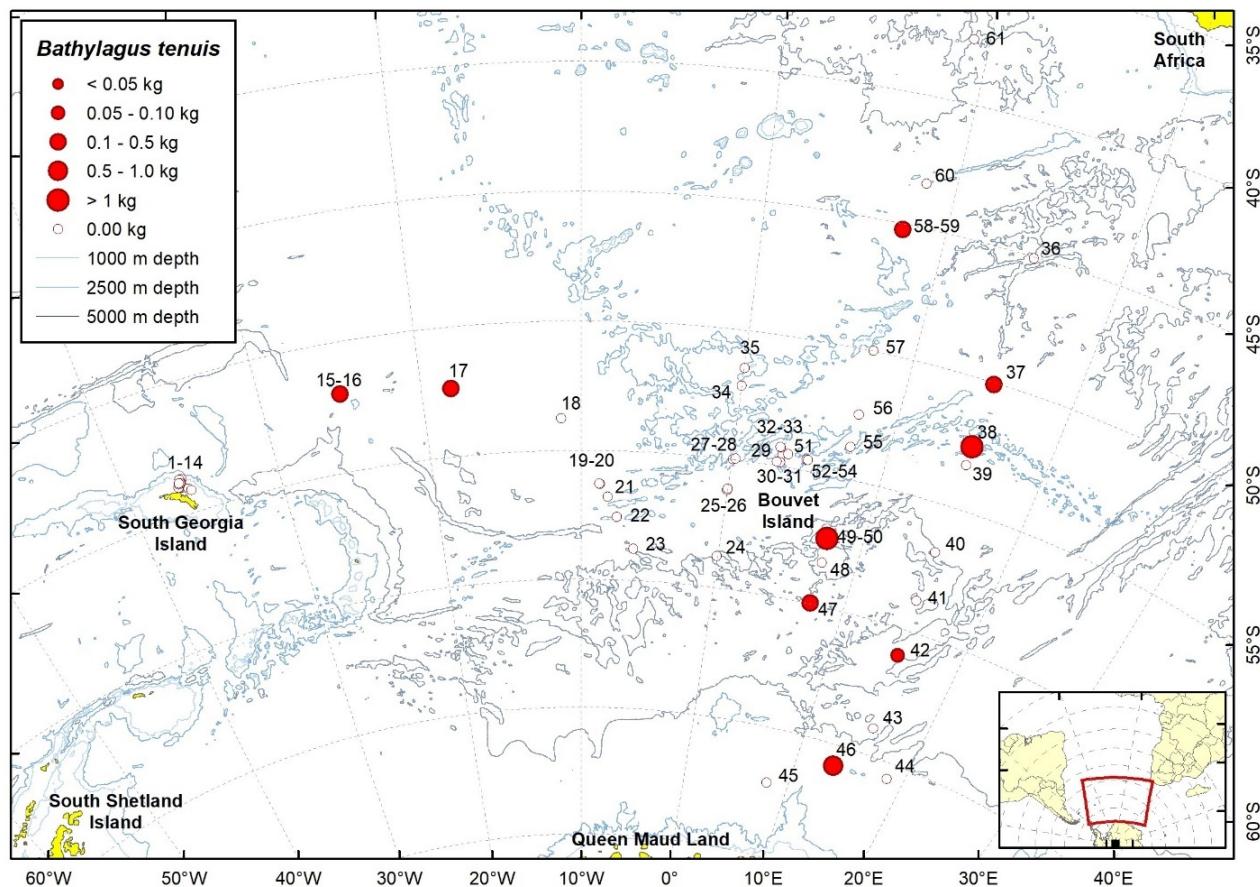


Figure 7b. Trawl stations with presence of *Bathylagus tenuis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 5. Station information with presence of *Bathylagus tenuis*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,99 S	25,00 W	13	231,3	3,23	45,05
17	26.01.2008	52,33 S	18,16 W	7	228,8	1,20	26,43
37	24.02.2008	50,04 S	15,02 E	10	243,7	3,32	14,43
38	25.02.2008	52,55 S	14,99 E	158	2456,0	3,66	49,50
42	28.02.2008	60,98 S	15,13 E	9	81,4	0,59	50,67
46	05.03.2008	65,80 S	13,38 E	55	955,0	1,59	32,17
47	07.03.2008	59,98 S	7,47 E	24	199,5	1,58	44,63
50	08.03.2008	57,39 S	7,44 E	183	4360,0	26,34	31,75
58	17.03.2008	45,20 S	7,65 E	9	332,0	10,17	19,92

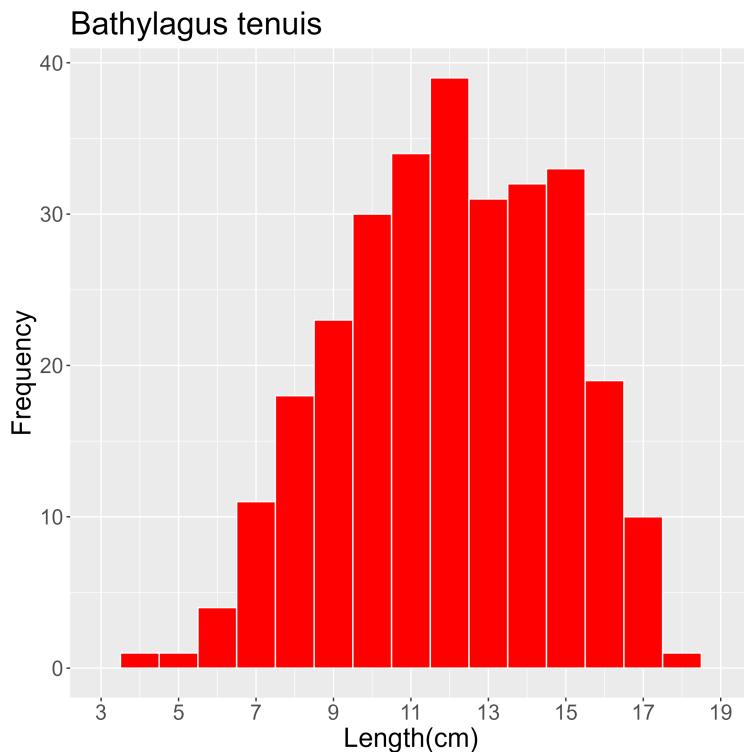


Figure 8. Length frequency of *Bathylagus tenuis* for all trawl stations combined. Frequency shown as number of individuals.

## 2.5 - Opisthoproctidae

### 2.5.1 - *Dolichopteryx* sp.



Figure 9a. Exemplary image of *Dolichopteryx* sp.

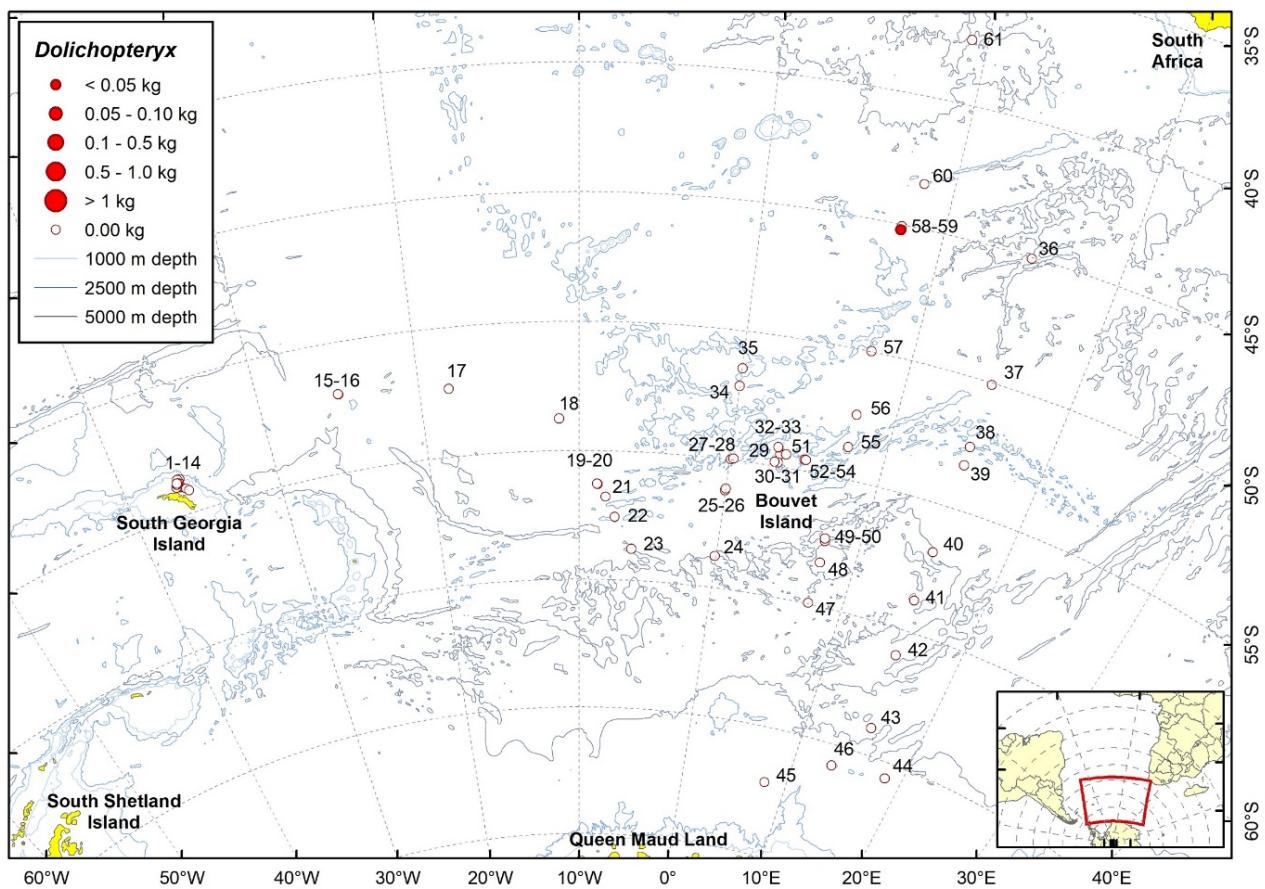


Figure 9b. Trawl stations with presence of *Dolichopteryx* sp. in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 6. Station information with presence of *Dolichopteryx* sp.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	1	16,0	10,17	19,92



## 2.6 - Gonostomatidae

### 2.6.1 - *Diplophos rebainsi* Krefft & Parin, 1972



Figure 10a. Exemplary image of *Diplophos rebainsi*.

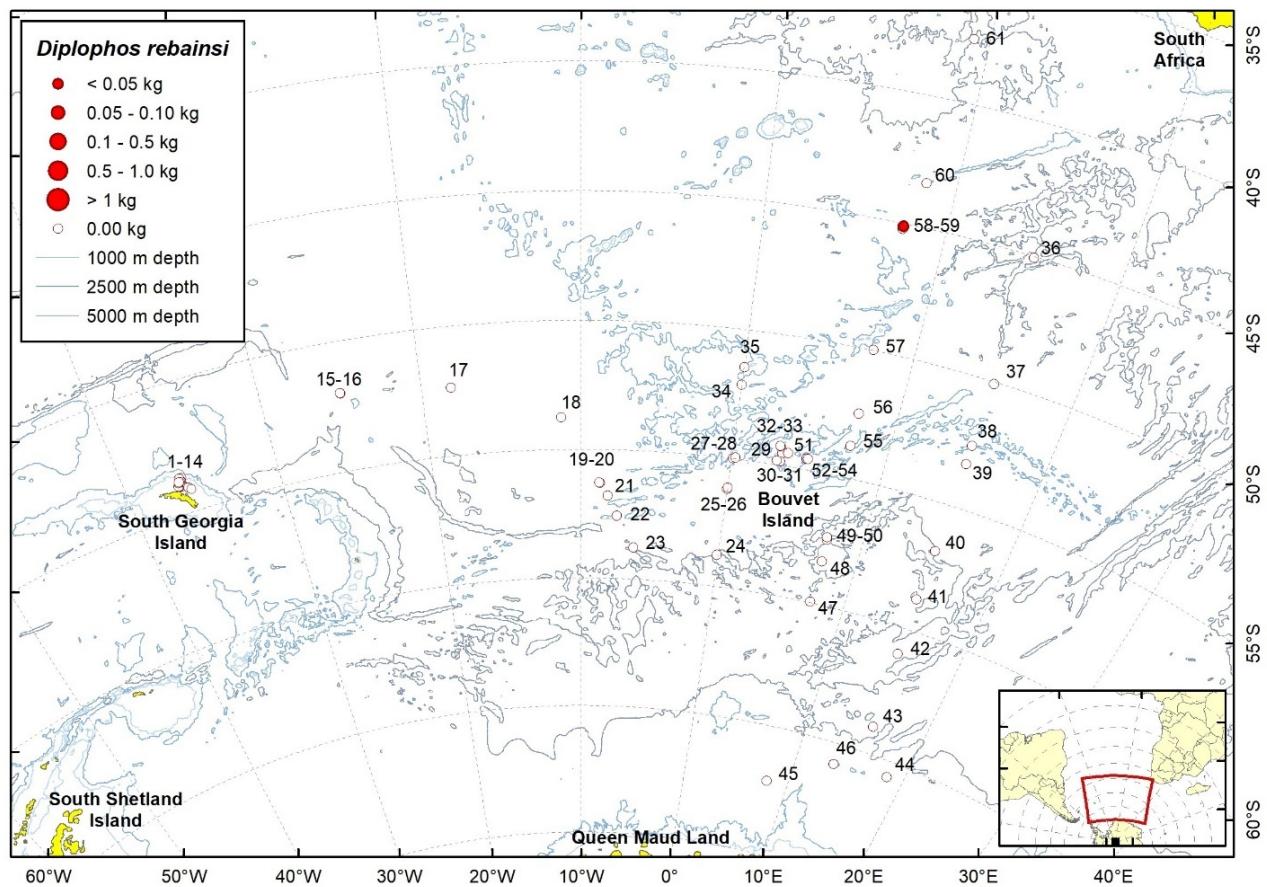


Figure 10b. Trawl stations with presence of *Diplophos rebainsi* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 7. Station information with presence of *Diplophos rebainsi*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
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59	17.03.2008	45,11	S	7,66	E		1	41,0	1,02	5,63
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## 2.7 - Sternopychidae

### 2.7.1 - *Argyropelecus hemigymnus* Cocco, 1829



Figure 11a. Exemplary image of *Argyropelecus hemigymnus*.

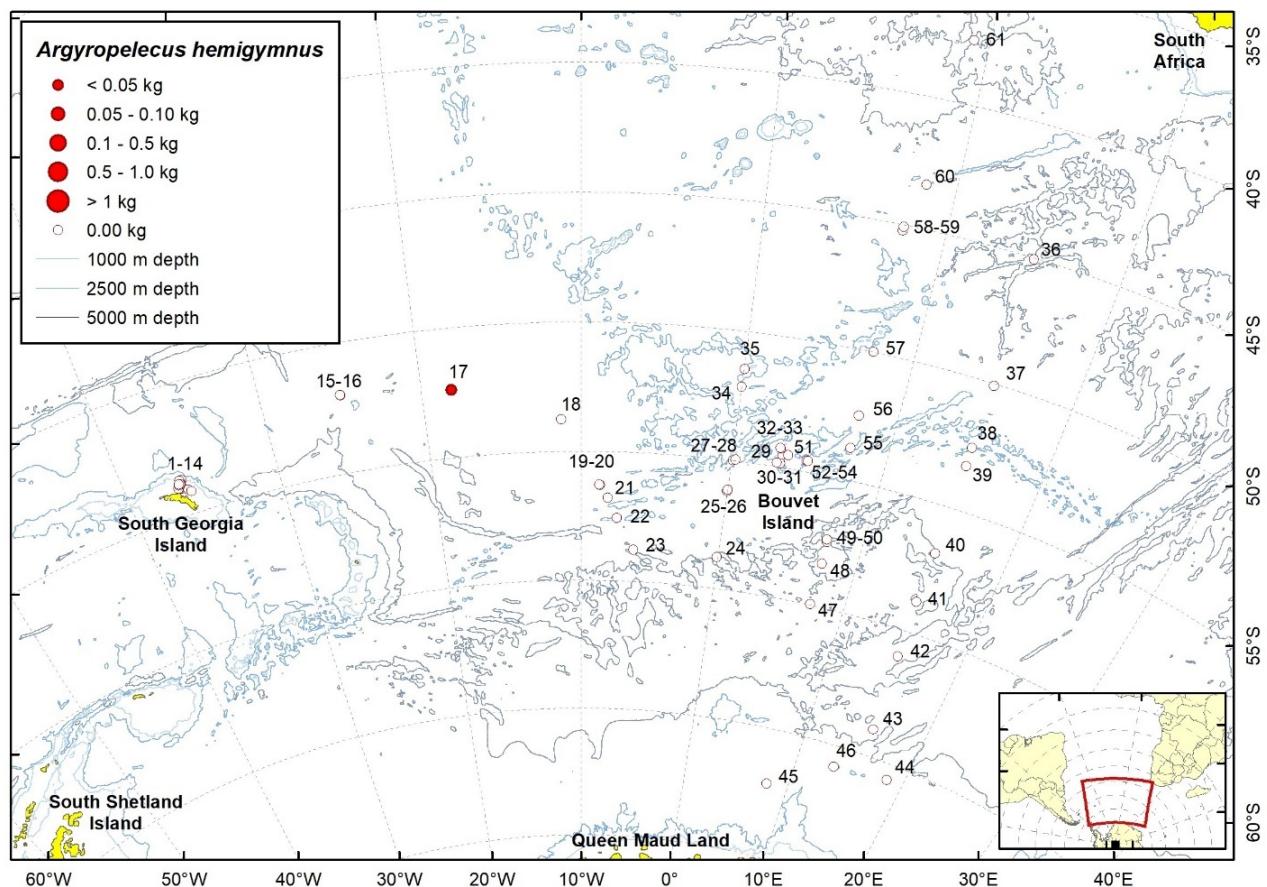


Figure 11b. Trawl stations with presence of *Argyropelecus hemigymnus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 8. Station information with presence of *Argyropelecus hemigymnus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
17	26.01.2008	52,38 S	18,13 W	1	0,3	1,20	26,43

**2.7.2 - *Maurolicus inventionis* Parin & Kobylansky, 1993**

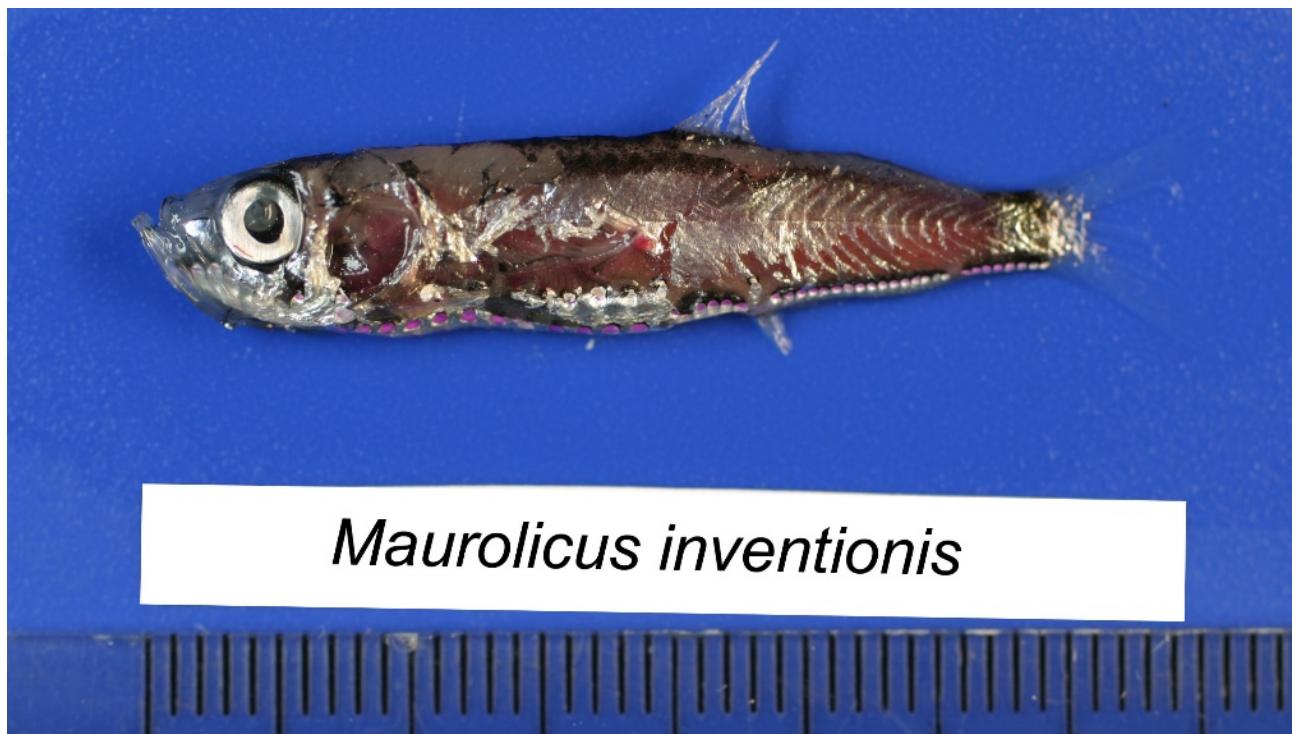


Figure 12a. Exemplary image of *Maurolicus inventionis*.

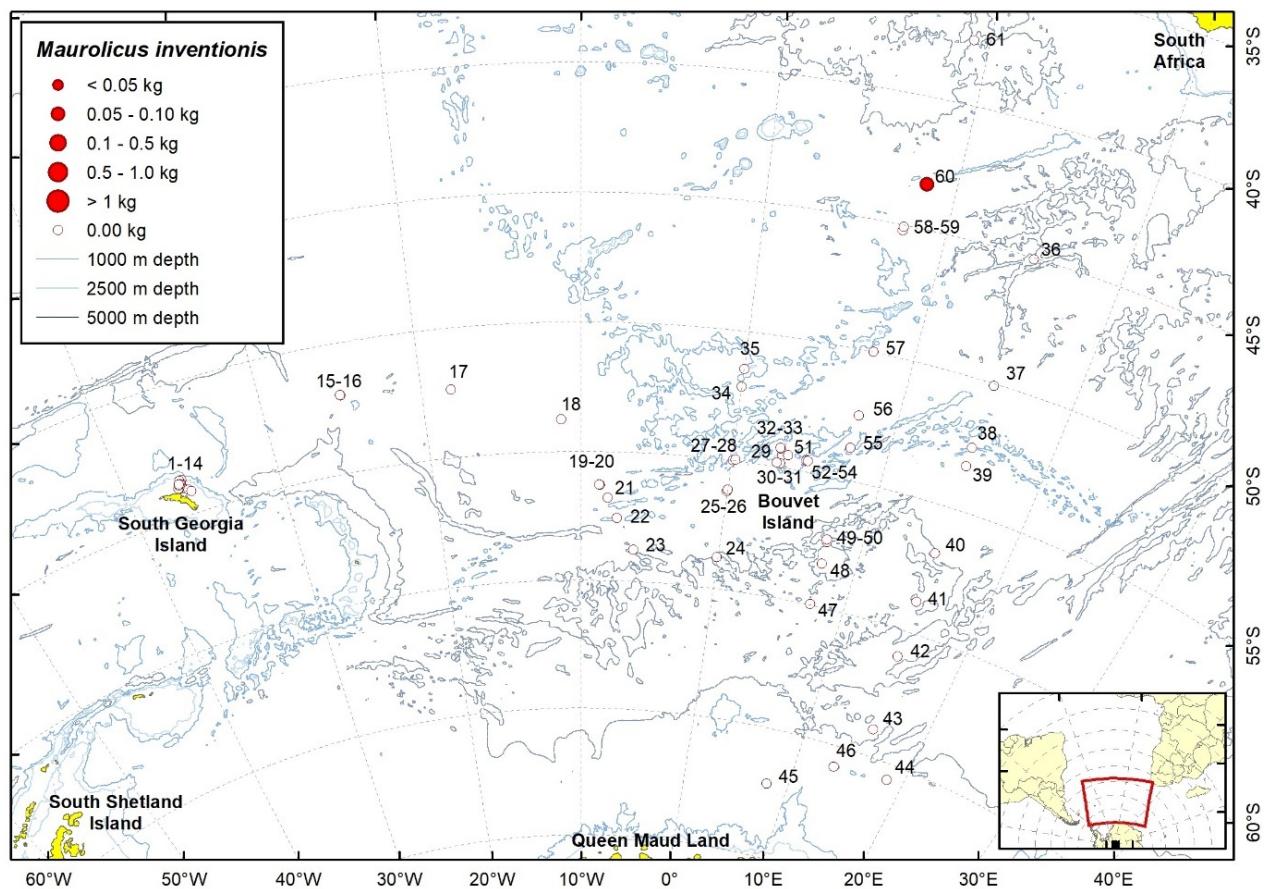


Figure 12b. Trawl stations with presence of *Maurolicus inventionis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 9. Station information with presence of *Maurolicus inventionis*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
60	18.03.2008	43,33 S	8,37 E	361	51,7	110,70	332,36

### ***Maurolicus inventionis***

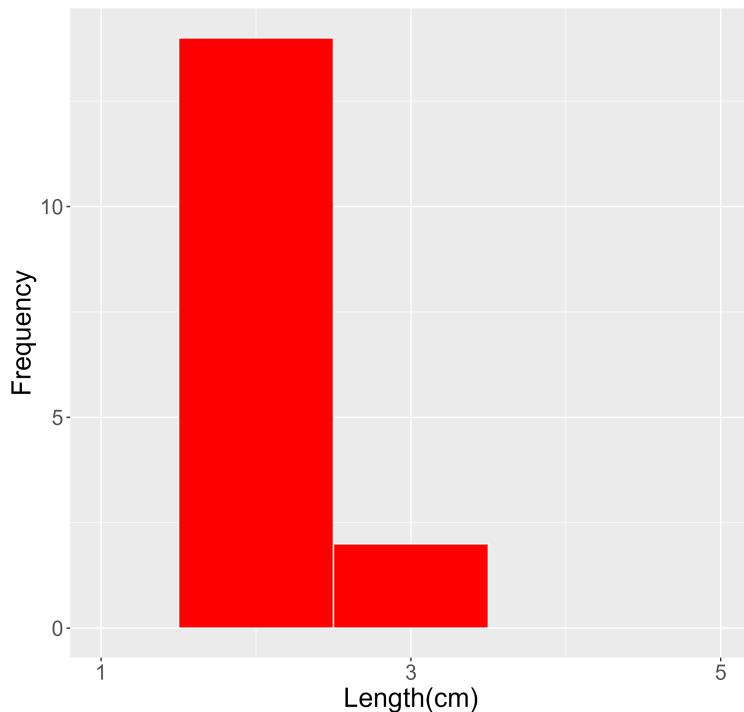


Figure 13. Length frequency of *Maurolicus inventionis* for all trawl stations combined. Frequency shown as number of individuals.

## 2.8 - Phosichthyidae

### 2.8.1 - *Phosichthys argenteus* Hutton, 1872



Figure 14a. Exemplary image of *Phosichthys argenteus*.

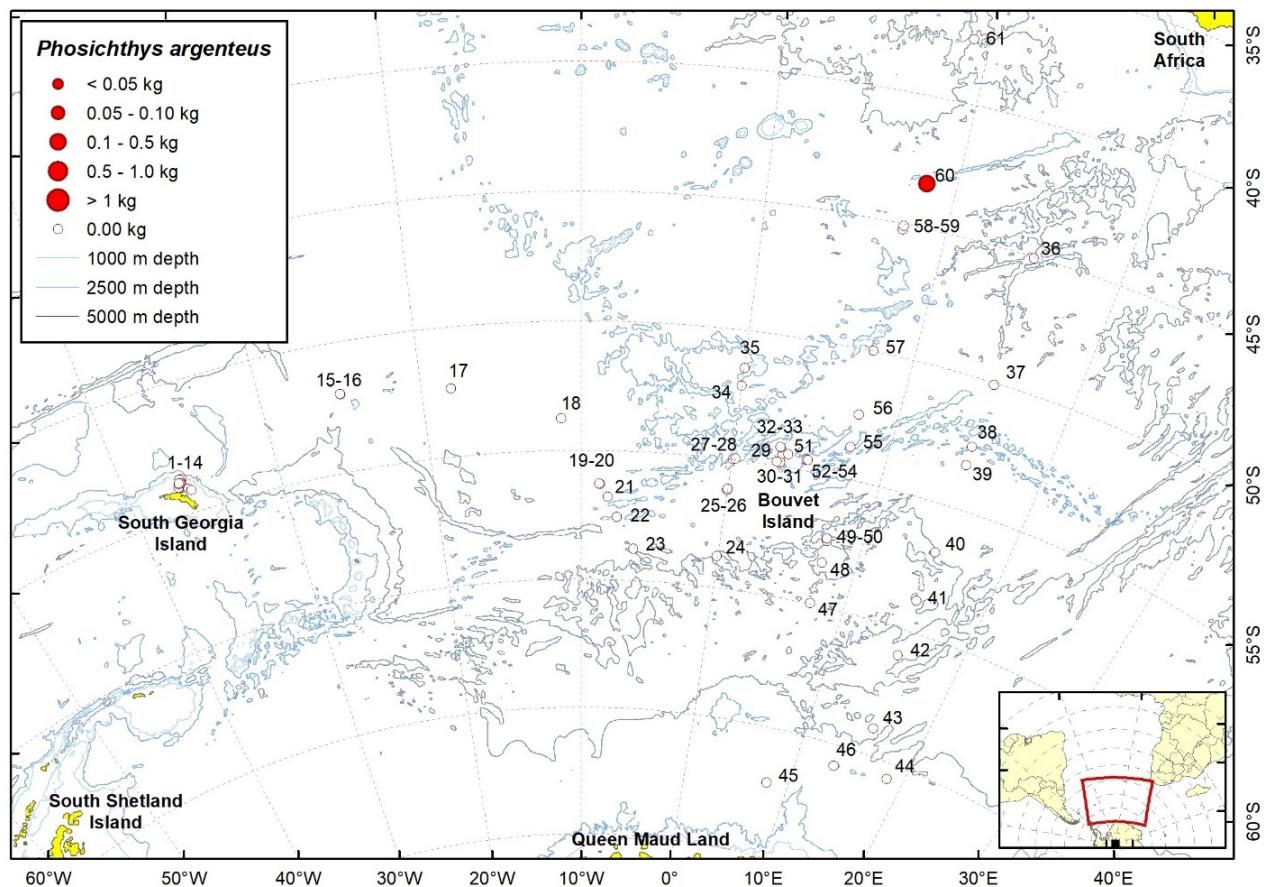


Figure 14b. Trawl stations with presence of *Phosichthys argenteus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 10. Station information with presence of *Phosichthys argenteus*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
60	18.03.2008	43,33 S	8,37	E	6	220,0	110,70	332,36

## 2.9 - Stomiidae

### 2.9.1 - *Astronesthes boulengeri* Gilchrist, 1902



Figure 15a. Exemplary image of *Astronesthes boulengeri*.

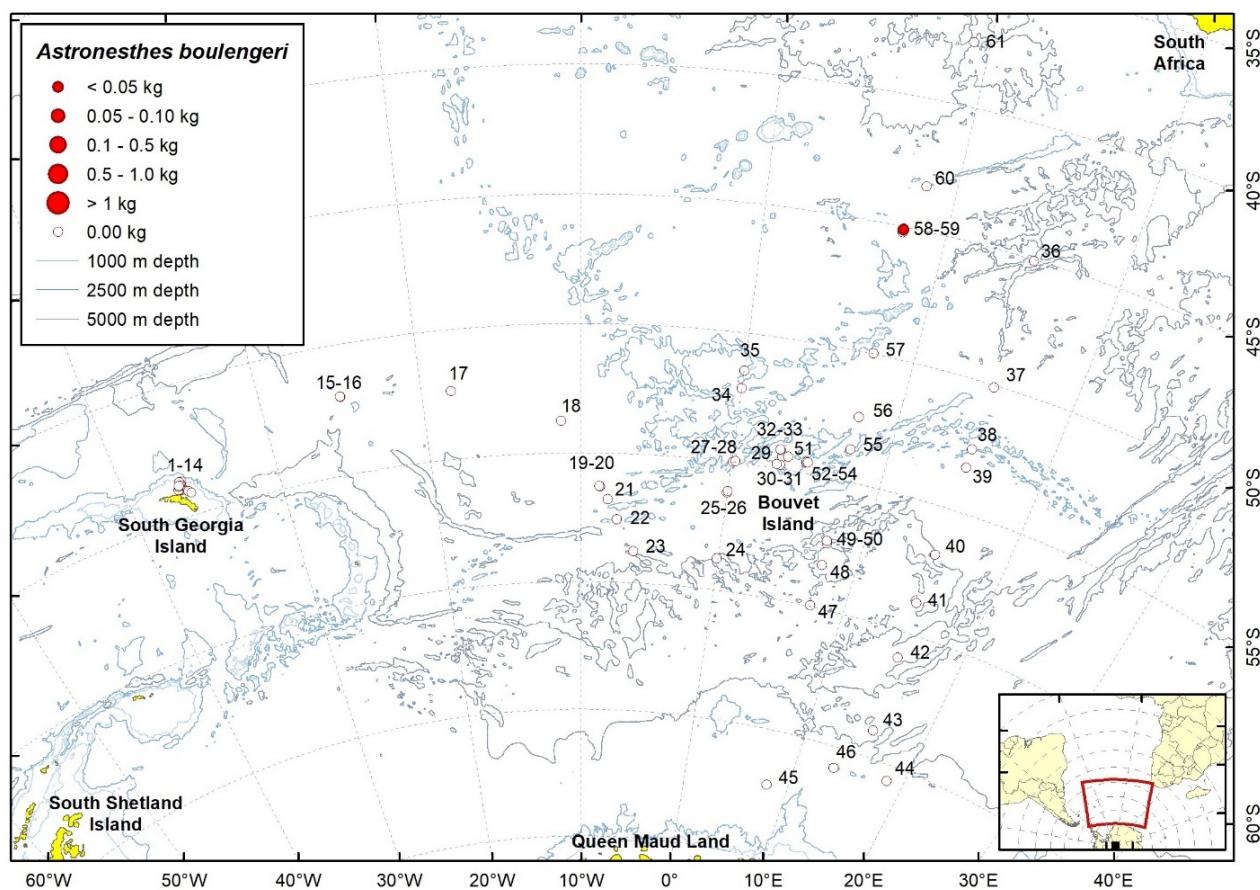


Figure 15b. Trawl stations with presence of *Astronesthes boulengeri* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 11. Station information with presence of *Astronesthes boulengeri*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
59	17.03.2008	45,11 S	7,66	E	1	21,0	1,02	5,63

### 2.9.2 - *Borostomias antarcticus* (Lönnberg, 1905)



Figure 16a. Exemplary image of *Borostomias antarcticus*.

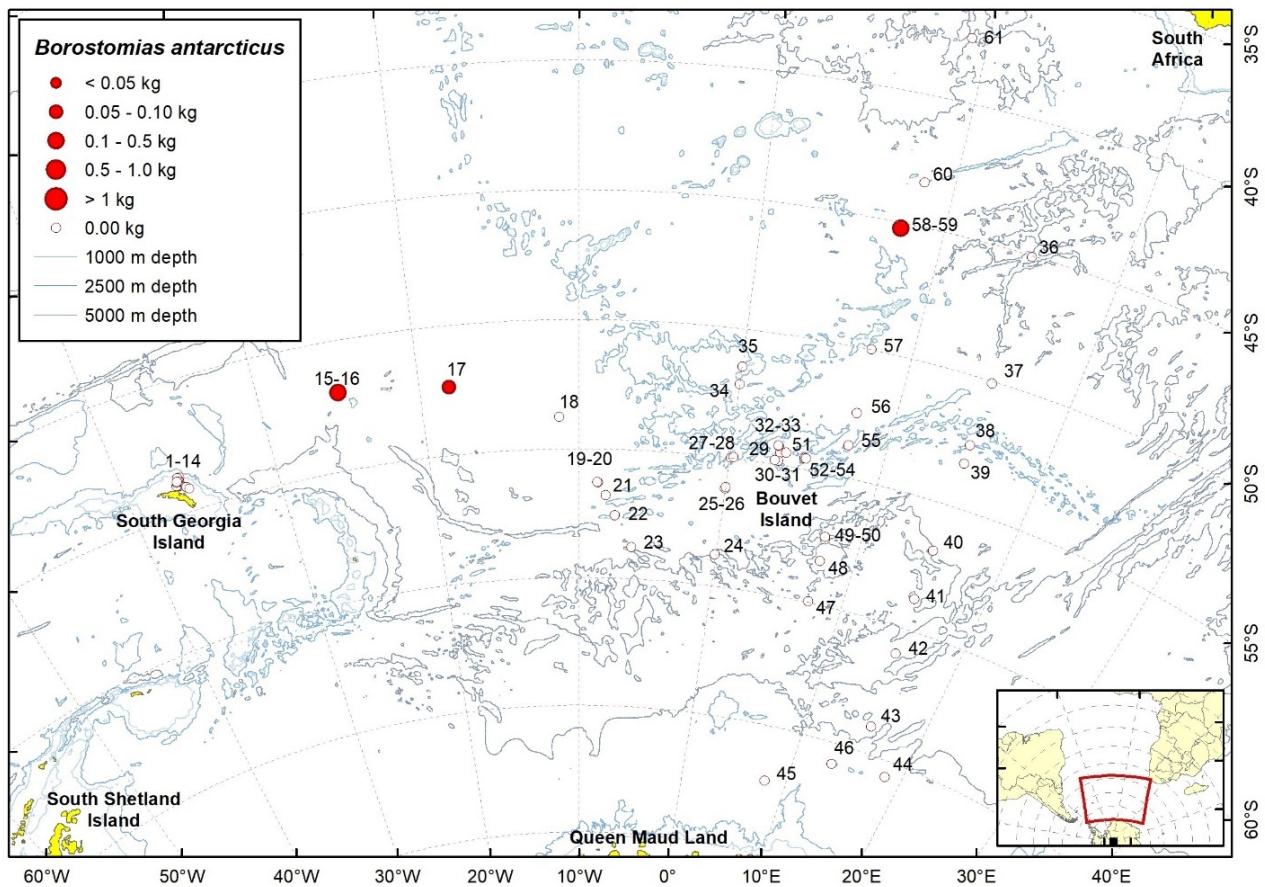


Figure 16b. Trawl stations with the presence of *Borostomias antarcticus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 12. Station information with presence of *Borostomias antarcticus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

16	24.01.2008	51,99	S	25,00	W		5	151,0	3,23	45,05
17	26.01.2008	52,33	S	18,16	W		3	94,3	1,20	26,43
58	17.03.2008	45,20	S	7,65	E		2	173,0	10,17	19,92

### 2.9.3 - *Idiacanthus atlanticus* Brauer, 1906



Figure 17a. Exemplary image of *Idiacanthus atlanticus*.

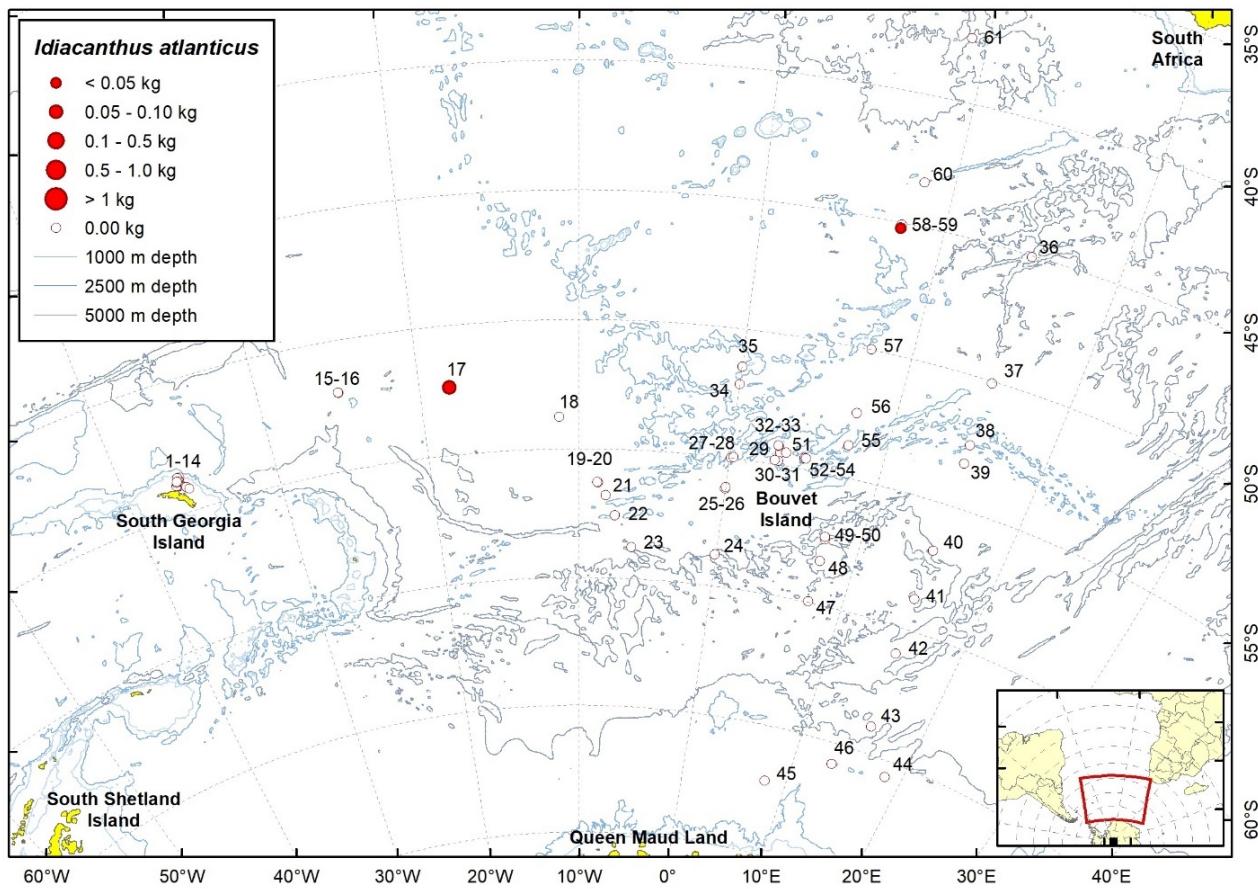


Figure 17b. Trawl stations with presence of *Idiacanthus atlanticus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 13. Station information with presence of *Idiacanthus atlanticus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

17	26.01.2008	52,38	S	18,13	W	2	56,9	1,20	26,43
58	17.03.2008	45,20	S	7,65	E	1	44,0	10,17	19,92

#### 2.9.4 - *Stomias boa* (Risso, 1810)



Figure 18a. Exemplary image of *Stomias boa*.

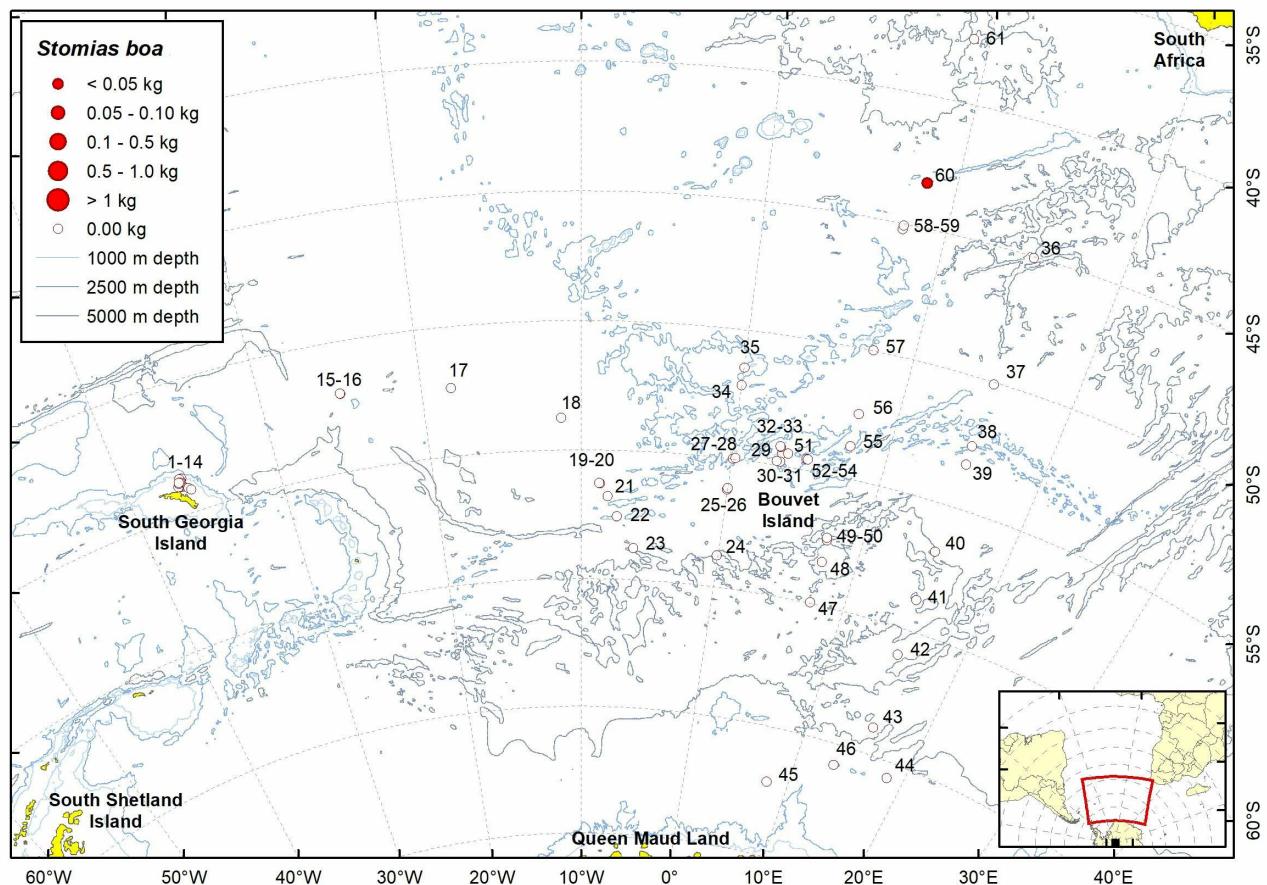


Figure 18b. Trawl stations with presence of *Stomias boa* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 14. Station information with presence of *Stomias boa*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
60	18.03.2008	43,29 S	8,40	E	2	3,0	110,70	332,36

### 2.9.5 - *Stomias gracilis* Garman, 1899



Figure 19a. Exemplary image of *Stomias gracilis*.

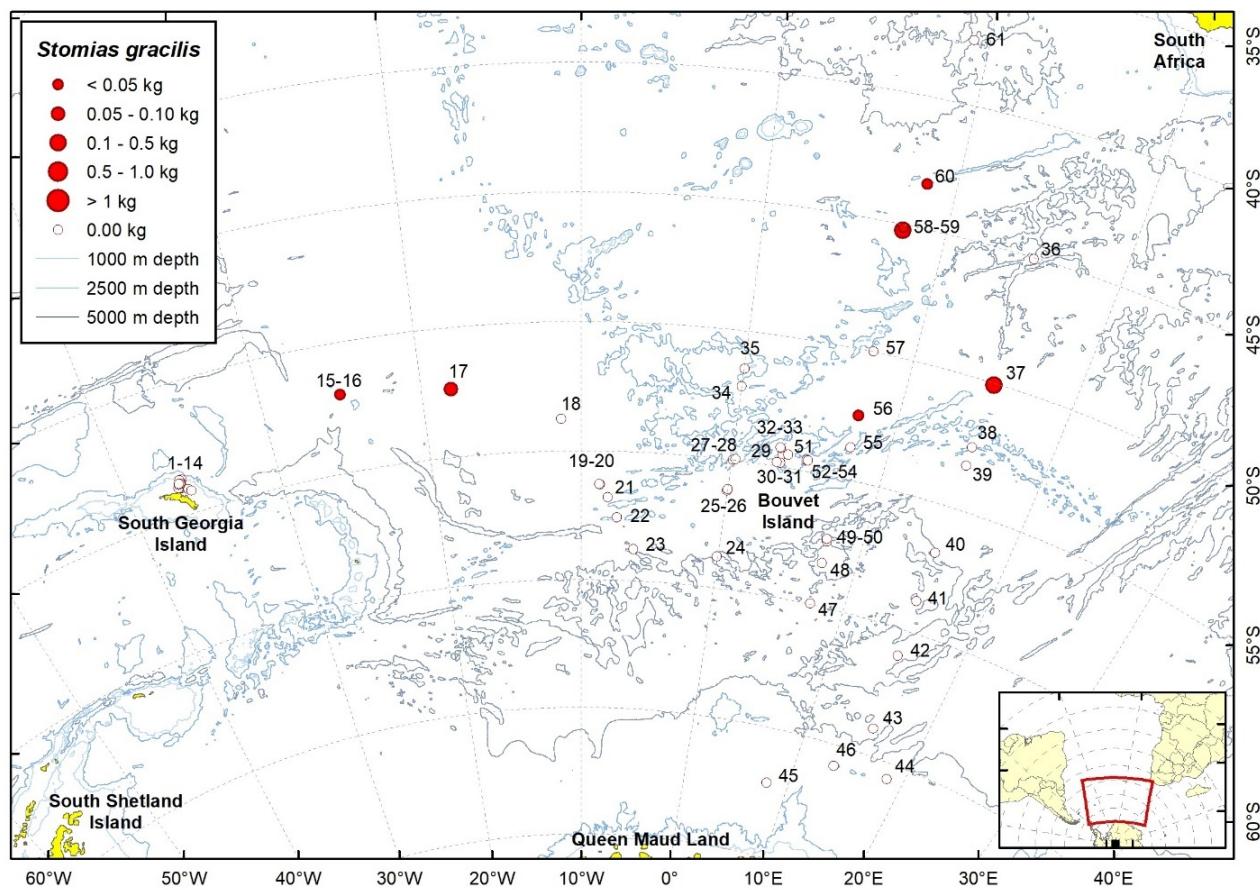


Figure 19b. Trawl stations with presence of *Stomias gracilis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 15. Station information with presence of *Stomias gracilis*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,98 S	25,04 W	1	16,0	3,23	45,05
17	26.01.2008	52,33 S	18,16 W	4	83,8	1,20	26,43

37	24.02.2008	50,04	S	15,02	E		12	242,0		3,32		14,43
56	14.03.2008	52,51	S	7,53	E		1	41,0		0,44		188,87
58	17.03.2008	45,20	S	7,65	E		8	174,0		10,17		19,92
59	17.03.2008	45,11	S	7,66	E		1	29,0		1,02		5,63
60	18.03.2008	43,29	S	8,40	E		1	1,6		110,70		332,36

## 2.10 - Scopelarchidae

### 2.10.1 - *Benthalbella elongata* (Norman, 1937)



Figure 20a. Exemplary image of *Benthalbella elongata*.

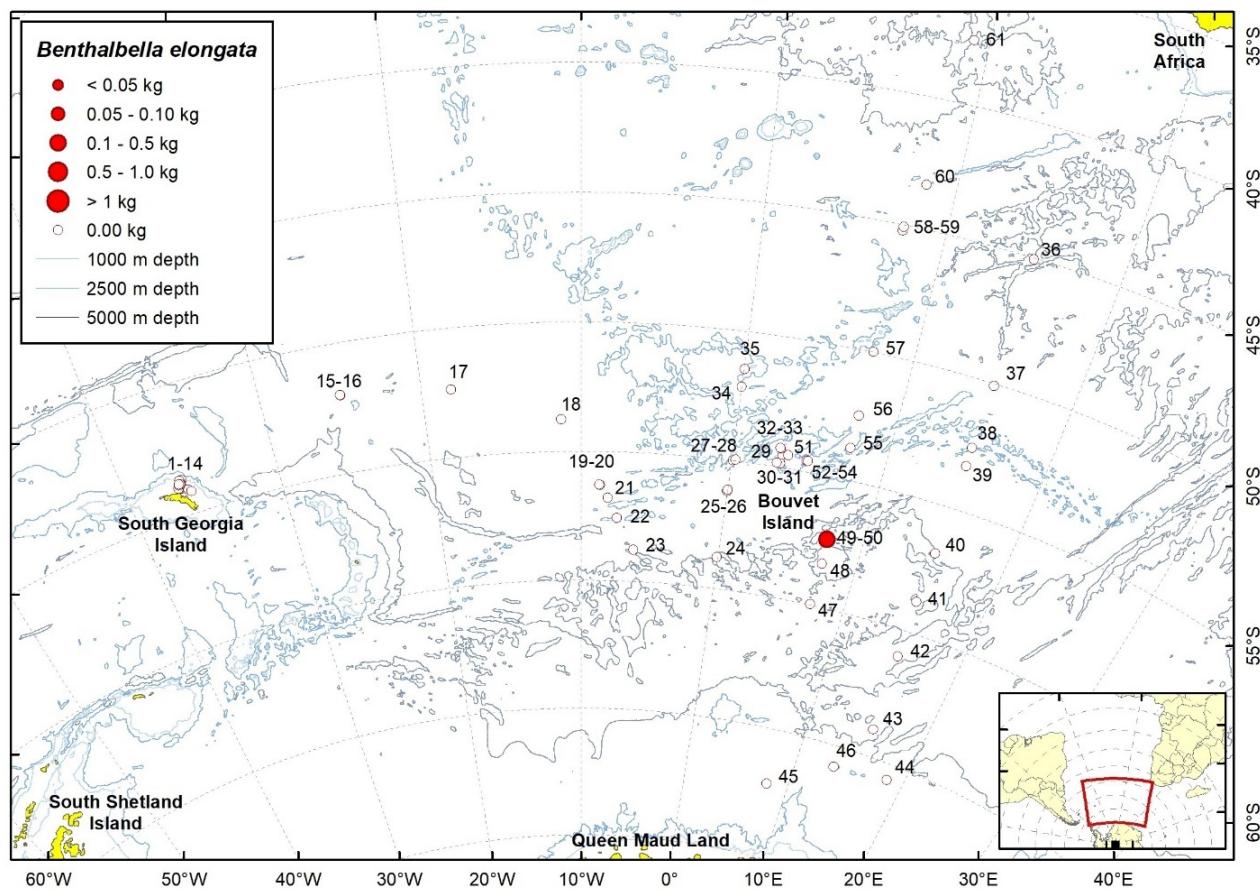


Figure 20b. Trawl stations with presence of *Benthalbella elongata* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 16. Station information with presence of *Benthalbella elongata*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
50	08.03.2008	57,39 S	7,44 E	1	103,0	26,34	31,75



## 2.10.2 - *Lagiacrusichthys macropinna* (Bussing & Bussing, 1966)



Figure 21a. Exemplary image of *Lagiacrusichthys macropinna*.

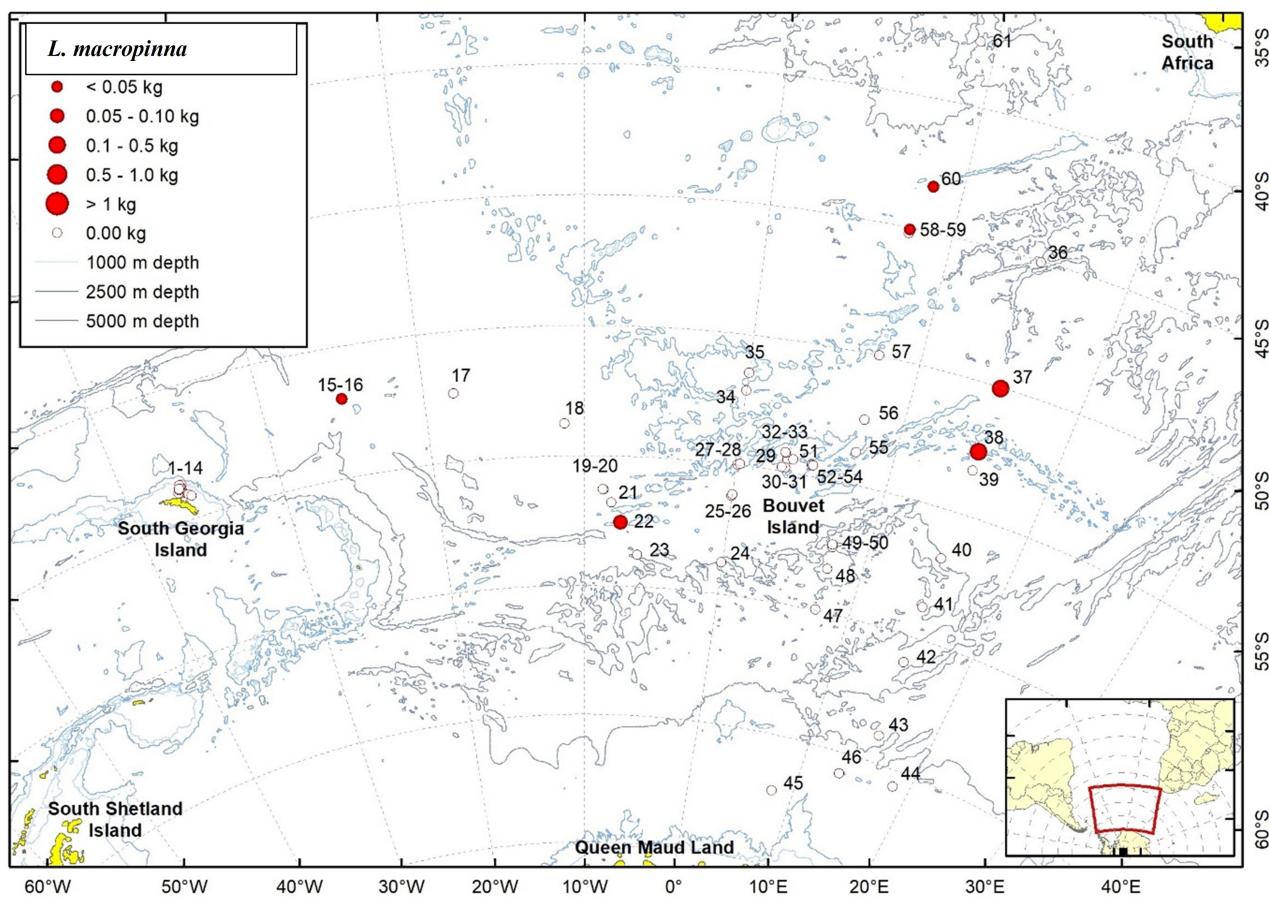


Figure 21b. Trawl stations with presence of *Lagiacrusichthys macropinna* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 17. Station information with presence of *Lagiacrusichthys macropinna*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,99	S	25,00	W	1	41,1	3,23
22	30.01.2008	57,53	S	7,49	W	1	73,6	0,67
37	24.02.2008	50,04	S	15,02	E	2	138,0	3,32
38	25.02.2008	52,55	S	14,99	E	3	180,0	3,66
59	17.03.2008	45,11	S	7,66	E	21	34,4	1,02
60	18.03.2008	43,29	S	8,40	E	1	2,0	110,70
								332,36

### Lagiacrusichthys macropinna

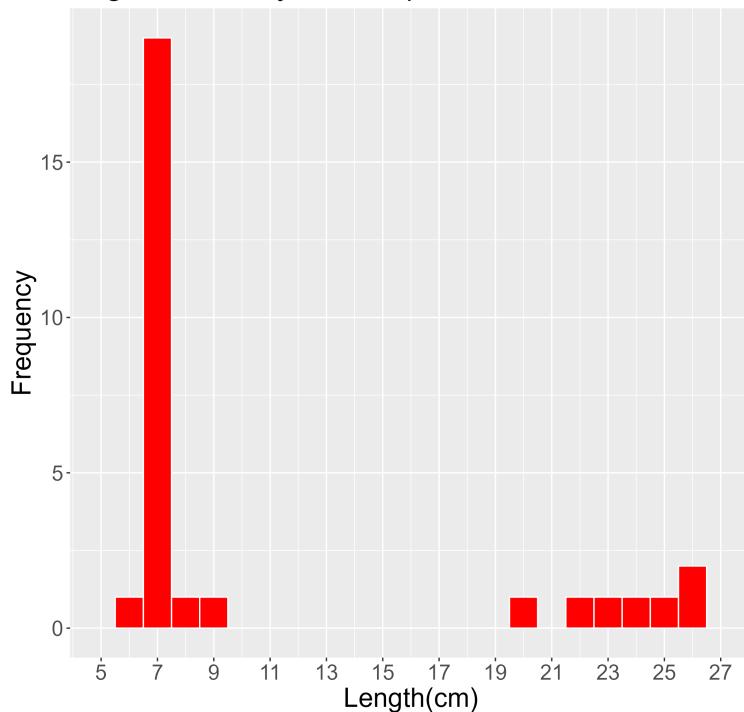


Figure 22. Length frequency of *Lagiacrusichthys macropinna* for all trawl stations combined. Frequency shown as number of individuals.

## 2.11 - Paralepididae

### 2.11.1 - *Magnisudis prionosa* (Rofen, 1963)



Figure 23a. Exemplary image of *Magnisudis prionosa*.

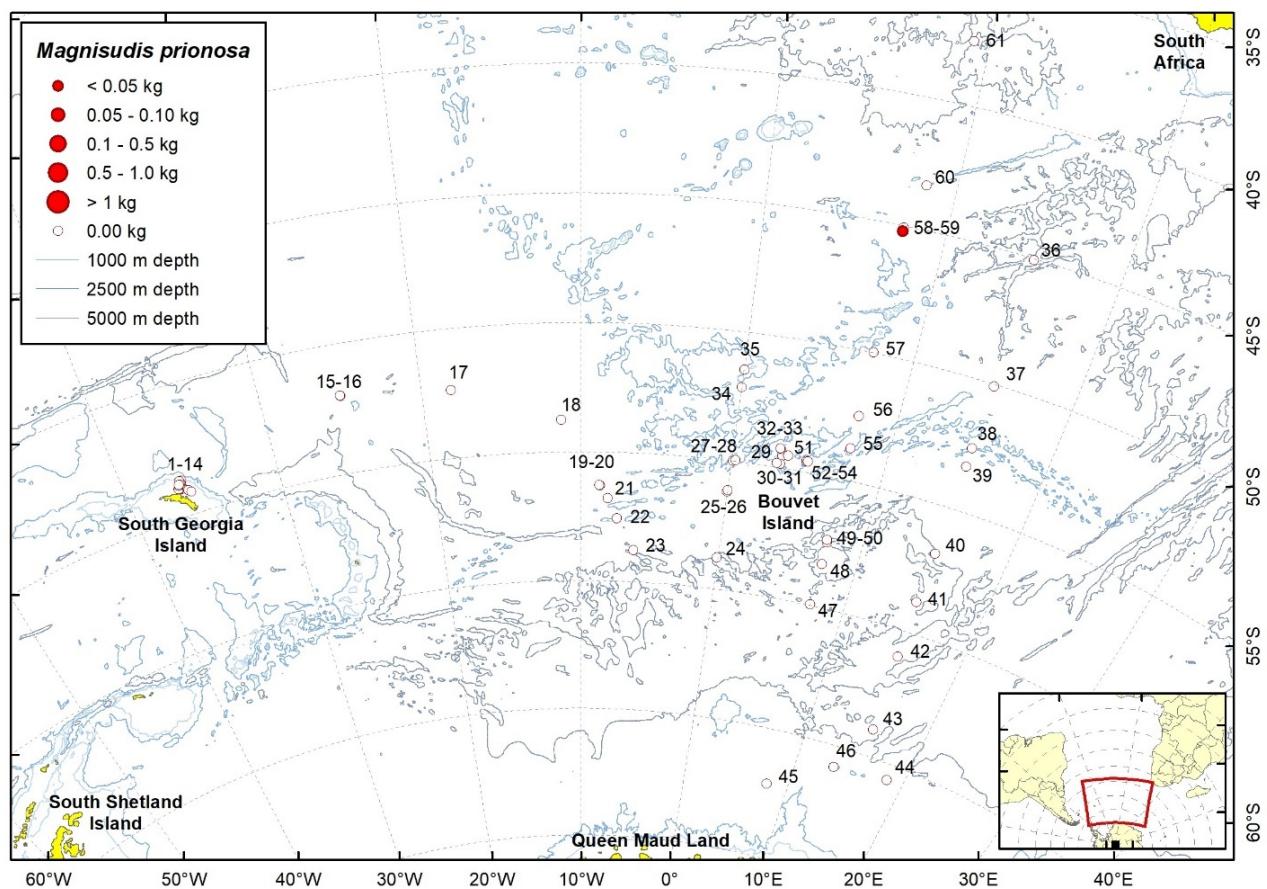


Figure 23b. Trawl stations with presence of *Magnisudis prionosa* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 18. Station information with presence of *Magnisudis prionosa*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	1	18,0	10,17	19,92

### 2.11.2 - *Notolepis annulata* Post, 1978



Figure 24a. Exemplary image of *Notolepis annulata*.

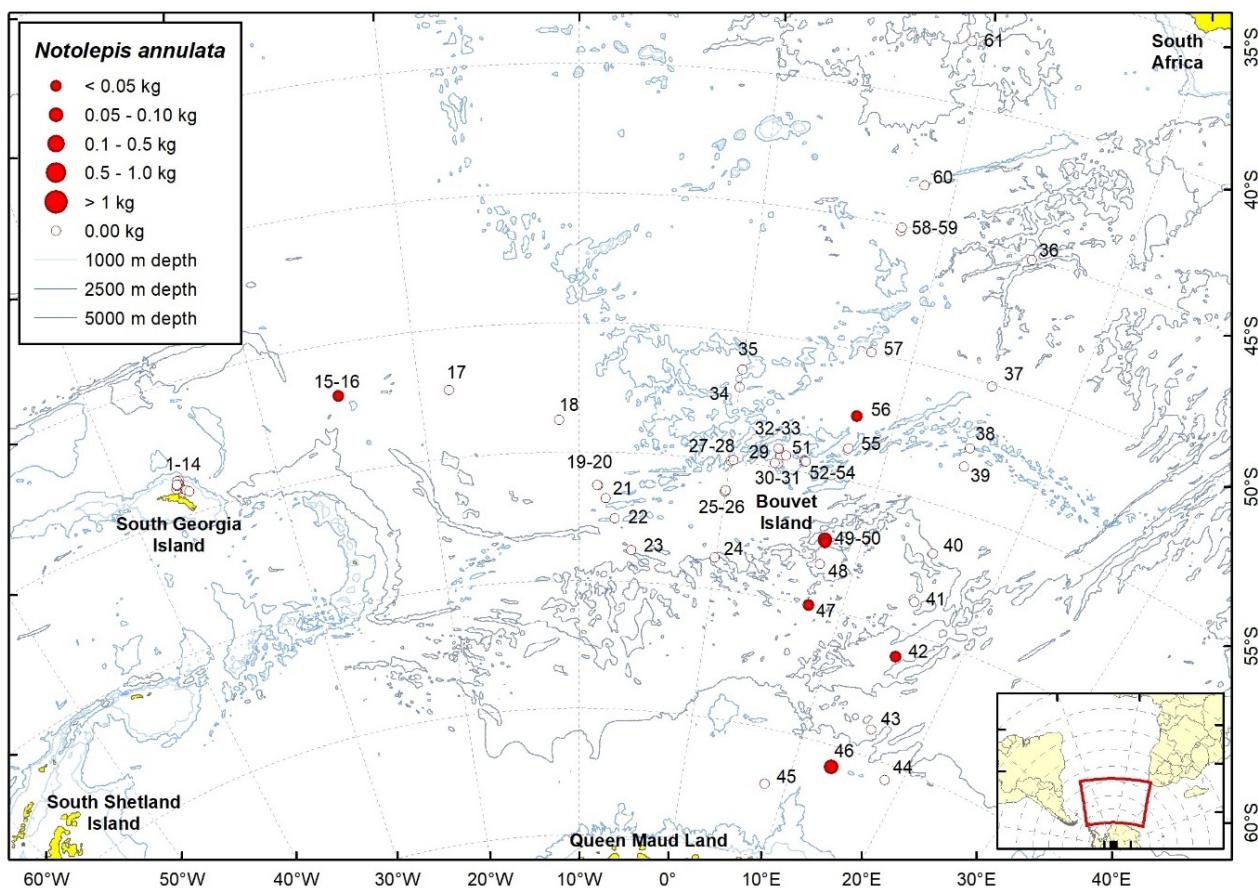


Figure 24b. Trawl stations with presence of *Notolepis annulata* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 19. Station information with presence of *Notolepis annulata*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
15	24.01.2008	52,00 S	25,01 W	1	13,0	1,28	28,00
42	28.02.2008	60,98 S	15,13 E	23	42,5	0,59	50,67
46	05.03.2008	65,80 S	13,38 E	94	72,2	1,59	32,17

47	07.03.2008	59,98	S	7,47	E	1	8,0	1,58	44,63
49	08.03.2008	57,49	S	7,49	E	1	3,0	0,00	46,36
50	08.03.2008	57,39	S	7,44	E	11	96,0	26,34	31,75
56	14.03.2008	52,45	S	7,56	E	9	4,6	0,44	188,87

### Notolepis annulata

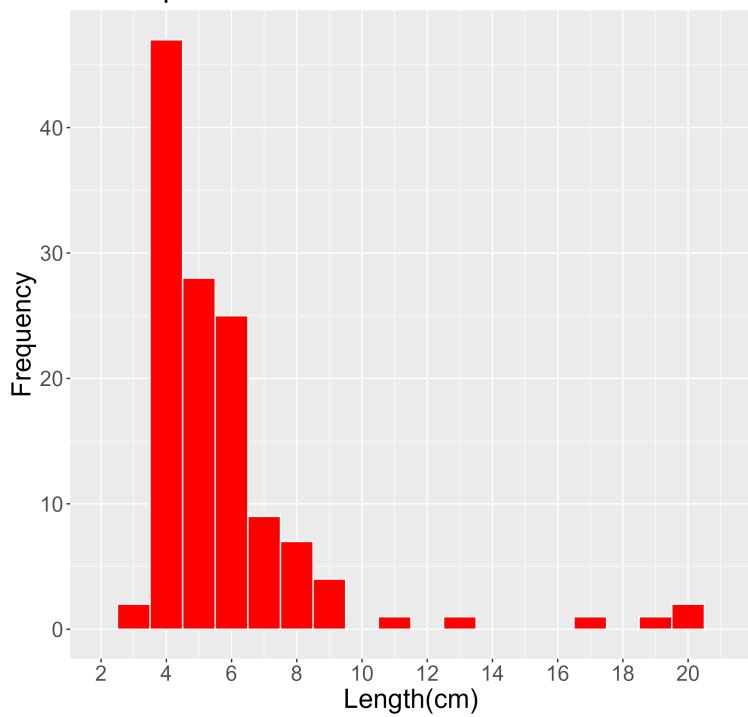


Figure 25. Length frequency of *Notolepis annulata* for all trawl stations combined. Frequency shown as number of individuals

### 2.11.3 - *Notolepis coatsorum* Dollo, 1908

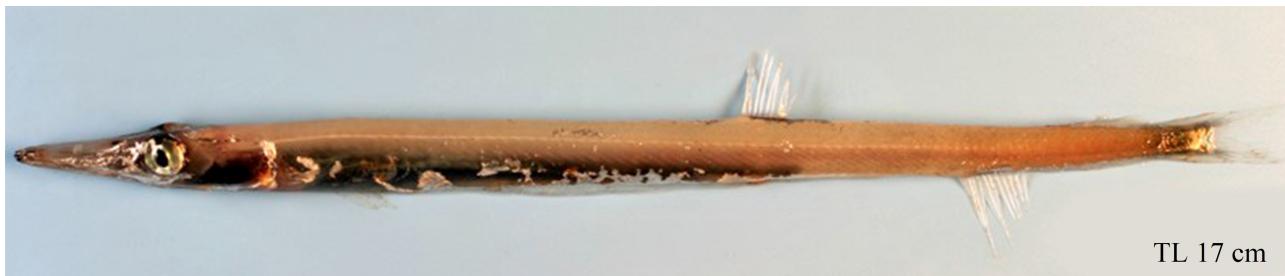


Figure 26a. Exemplary image of *Notolepis coatsorum*.

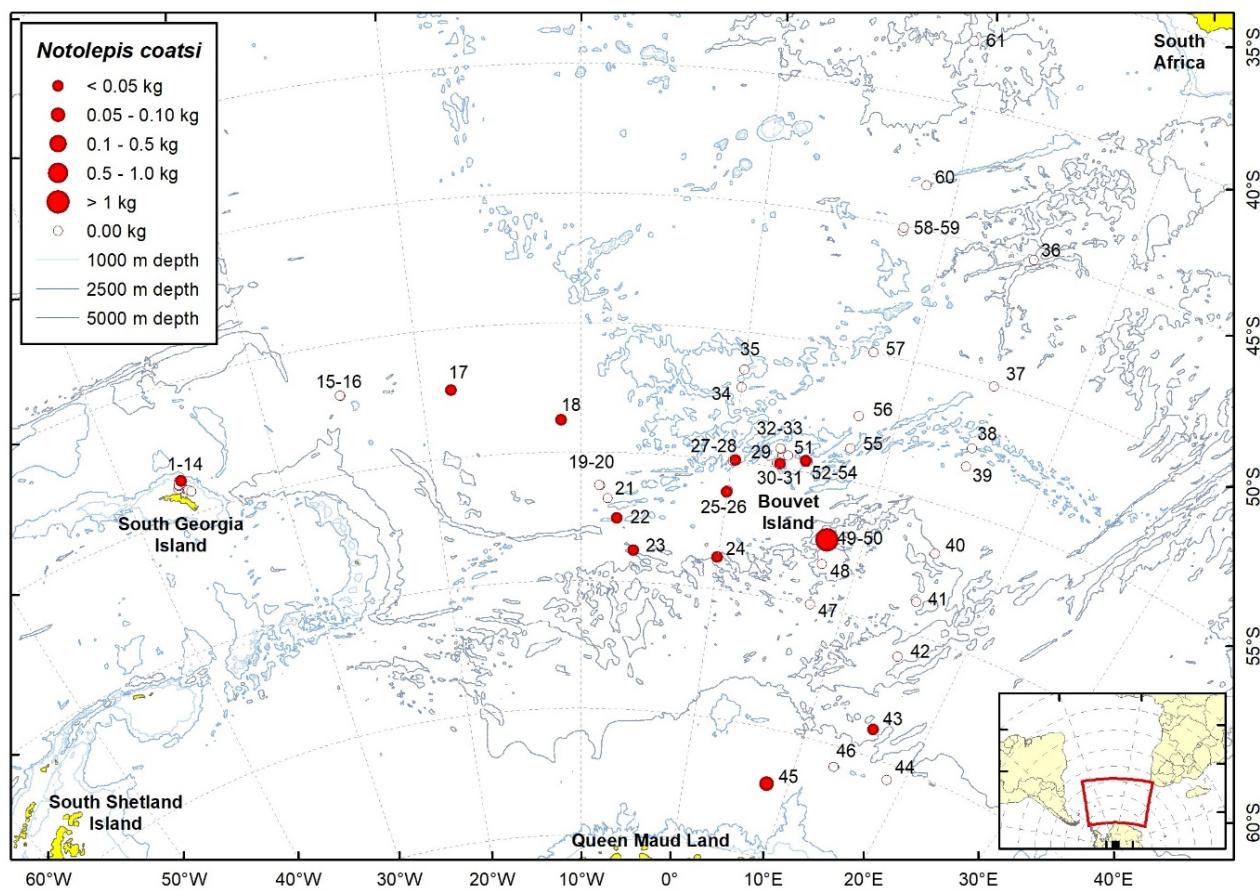


Figure 26b. Trawl stations with presence of *Notolepis coatsorum* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 19. Station information with presence of *Notolepis coatsorum*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
4	20.01.2008	53,64 S	36,27 W	2	1,5	0,42	4,32
17	26.01.2008	52,33 S	18,16 W	15	4,3	1,20	26,43
18	27.01.2008	53,75 S	11,29 W	10	1,0	3,07	24,11

22	30.01.2008	57,53	S	7,49	W	1	1,2	0,67	20,43
23	30.01.2008	58,76	S	6,22	W	19	34,0	4,14	13,02
24	31.01.2008	58,76	S	0,04	W	7	10,0	1,49	29,02
25	01.02.2008	56,21	S	0,05	W	3	6,0	0,18	44,71
28	02.02.2008	54,94	S	0,25	E	10	4,5	0,47	89,03
30	03.02.2008	54,84	S	3,19	E	15	5,9	1,44	273,78
43	28.02.2008	63,96	S	15,52	E	3	15,0	0,11	184,07
45	02.03.2008	67,12	S	7,95	E	7	68,0	0,07	3,91
50	08.03.2008	57,39	S	7,44	E	44	1844,0	26,34	31,75
53	12.03.2008	54,57	S	4,83	E	1	0,1	0,07	4,33

### Notolepis coatsorum

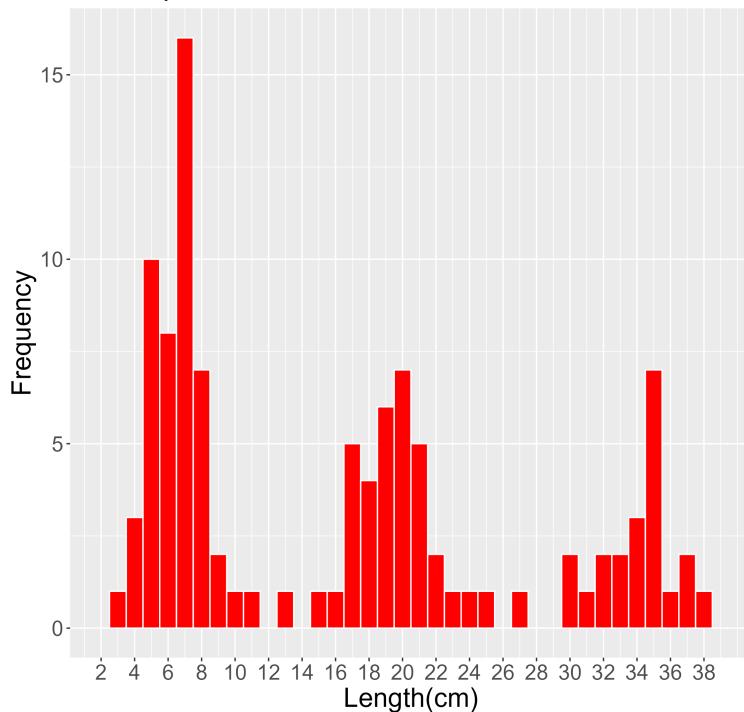


Figure 27. Length frequency of *Notolepis coatsorum* for all trawl stations combined. Frequency shown as number of individuals.

## 2.12 - Anotopteroidae

### 2.12.1 - *Anotopterus vorax* (Regan, 1913)



Figure 28a. Exemplary image of *Anoptopterus vorax*.

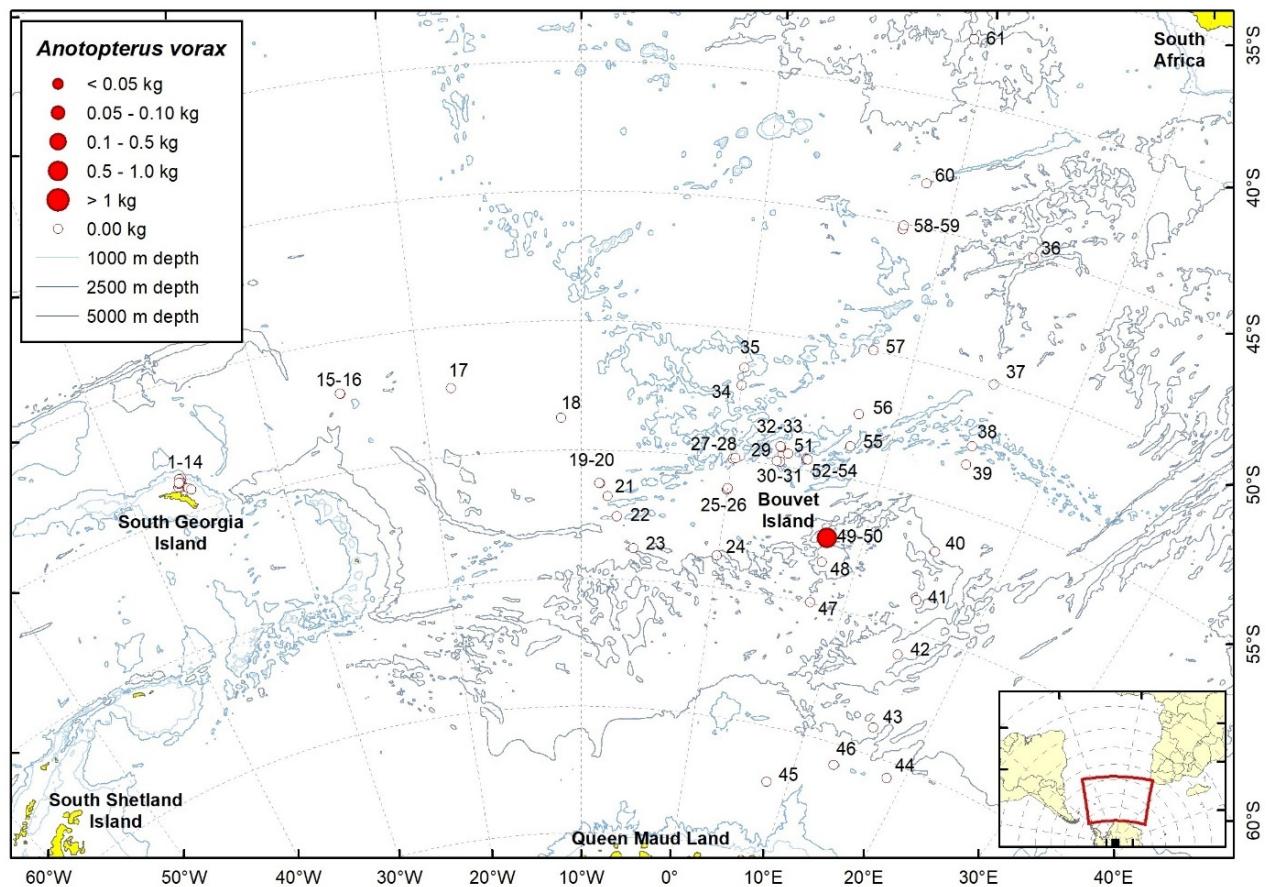


Figure 28b. Trawl stations with presence of *Anoptopterus vorax* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 20. Station information with presence of *Anotopterus vorax*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
50	08.03.2008	57,39 S	7,44	E	3	647,0	26,34	31,75

## 2.13 - Myctophidae

### 2.13.1 - *Diaphus hudsoni* Zurbrigg & Scott, 1976

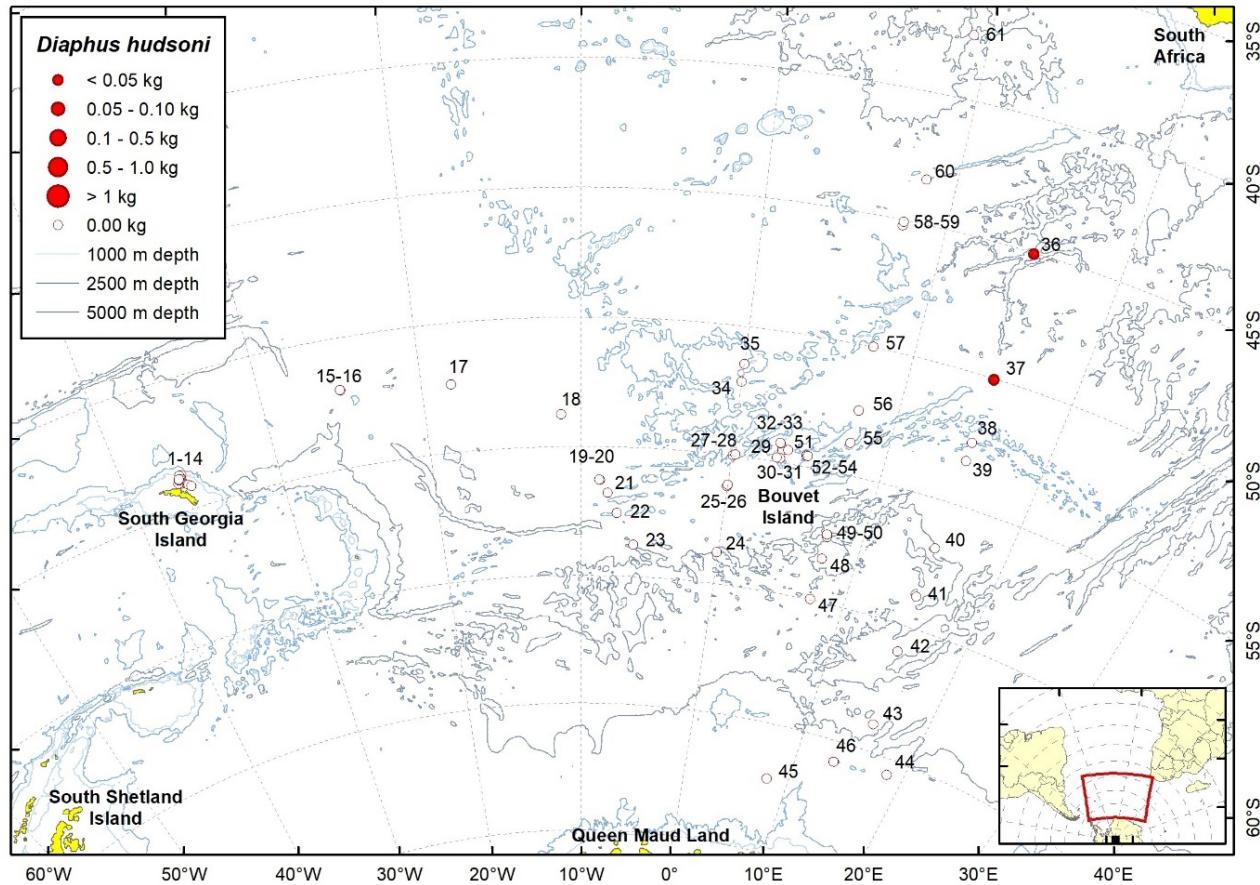


Figure 29. Trawl stations with presence of *Diaphus hudsoni* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 21. Station information with presence of *Diaphus hudsoni*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
36	22.02.2008	45,04 S	15,00 E	1	7,8	1,60	4,28
37	24.02.2008	50,04 S	15,02 E	1	2,0	3,32	14,43

### 2.13.2 - *Electrona antarctica* (Günther, 1878)



Figure 30a. Exemplary image of *Electrona antarctica*.

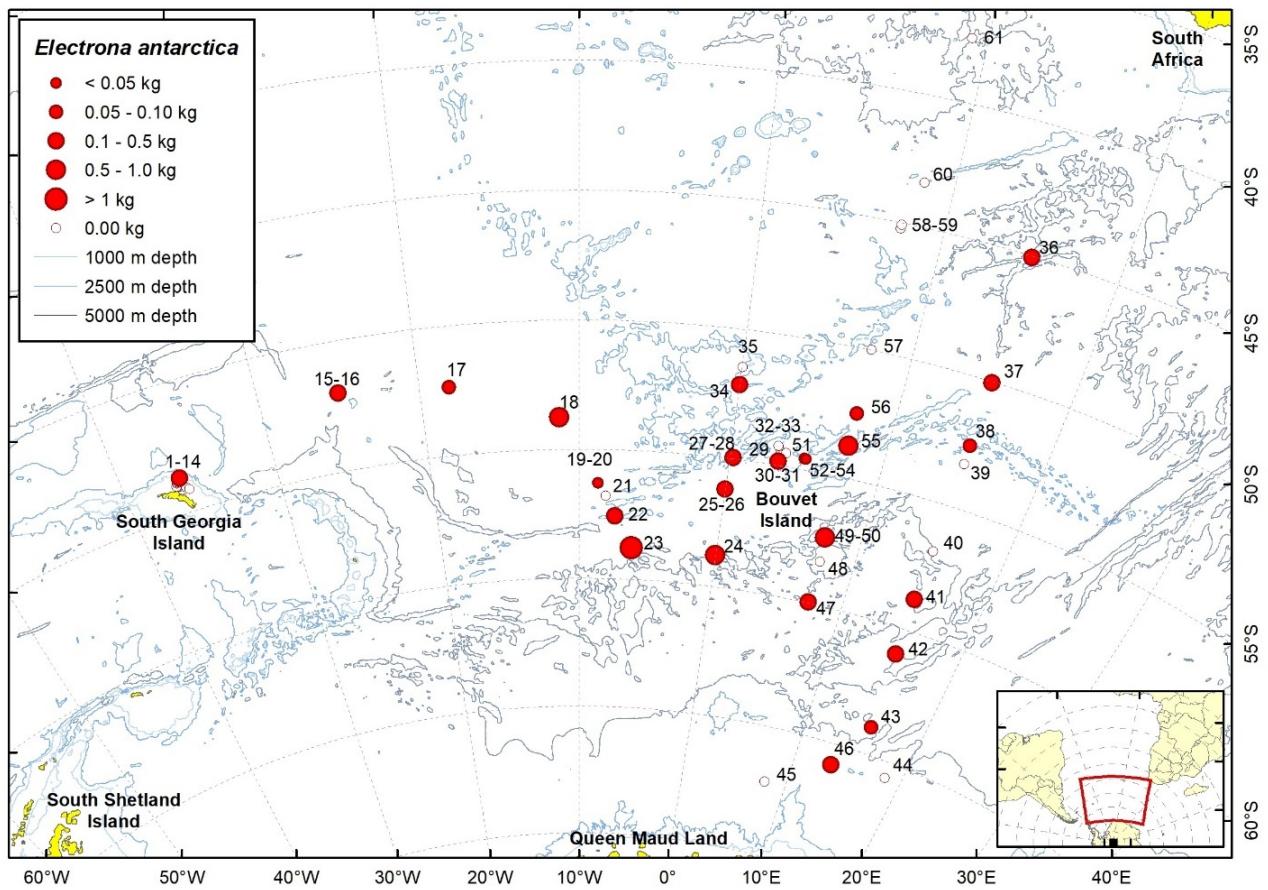


Figure 30b. Trawl stations with presence of *Electrona antarctica* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 22. Station information with presence of *Electrona antarctica*.

Station	Date	Latitude		Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
4	20.01.2008	53,64	S	36,27	W	97	251,7	0,42	4,32
16	24.01.2008	51,99	S	25,00	W	68	111,6	3,23	45,05
17	26.01.2008	52,33	S	18,16	W	19	69,4	1,20	26,43
18	27.01.2008	53,75	S	11,29	W	484	884,4	3,07	24,11
19	29.01.2008	56,28	S	8,71	W	4	11,8	0,16	49,45
22	30.01.2008	57,53	S	7,49	W	87	266,1	0,67	20,43
22	30.01.2008	57,53	S	7,49	W	24	88,5	0,67	20,43
23	30.01.2008	58,76	S	6,22	W	231	1085,1	4,14	13,02
24	31.01.2008	58,76	S	0,04	W	170	537,6	1,49	29,02
25	01.02.2008	56,21	S	0,05	W	63	135,5	0,18	44,71
28	02.02.2008	54,95	S	0,20	E	68	244,8	0,47	89,03
30	03.02.2008	54,84	S	3,23	E	211	411,0	1,44	273,78
34	06.02.2008	52,12	S	0,02	W	138	221,2	4,15	44,70
36	22.02.2008	45,03	S	15,00	E	466	230,3	1,60	4,28
37	24.02.2008	50,04	S	15,02	E	273	180,7	3,32	14,43
38	25.02.2008	52,55	S	14,99	E	73	98,2	3,66	49,50
41	27.02.2008	58,78	S	14,99	E	114	297,9	0,34	210,17
42	28.02.2008	60,98	S	15,13	E	187	244,0	0,59	50,67
43	28.02.2008	63,96	S	15,52	E	45	91,8	0,11	184,07
46	05.03.2008	65,80	S	13,38	E	130	212,3	1,59	32,17
47	07.03.2008	59,98	S	7,47	E	227	468,1	1,58	44,63
50	08.03.2008	57,39	S	7,44	E	75	661,6	26,34	31,75
53	12.03.2008	54,58	S	4,91	E	18	26,1	0,07	4,33
54	13.03.2008	54,58	S	4,98	E	1	4,0	0,26	85,64
55	13.03.2008	53,75	S	7,49	E	133	822,9	1,18	382,02
56	14.03.2008	52,45	S	7,56	E	114	64,7	0,44	188,87

### *Electrona antarctica*

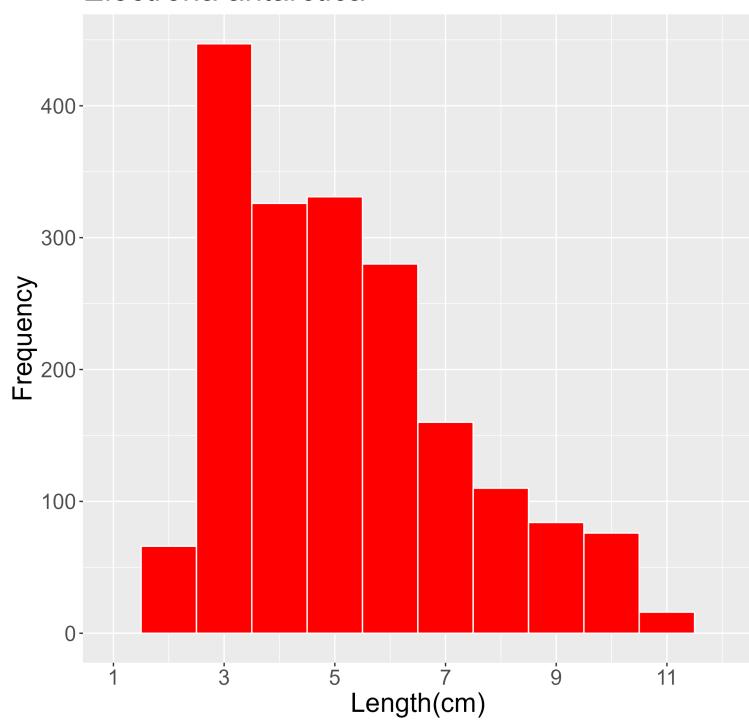


Figure 31. Length frequency of *Electrona antarctica* for all trawl stations combined. Frequency shown as number of individuals.



### 2.13.3 - *Electrona carlsbergi* (Tåning, 1932)



Figure 32a. Exemplary image of *Electrona carlsbergi*.

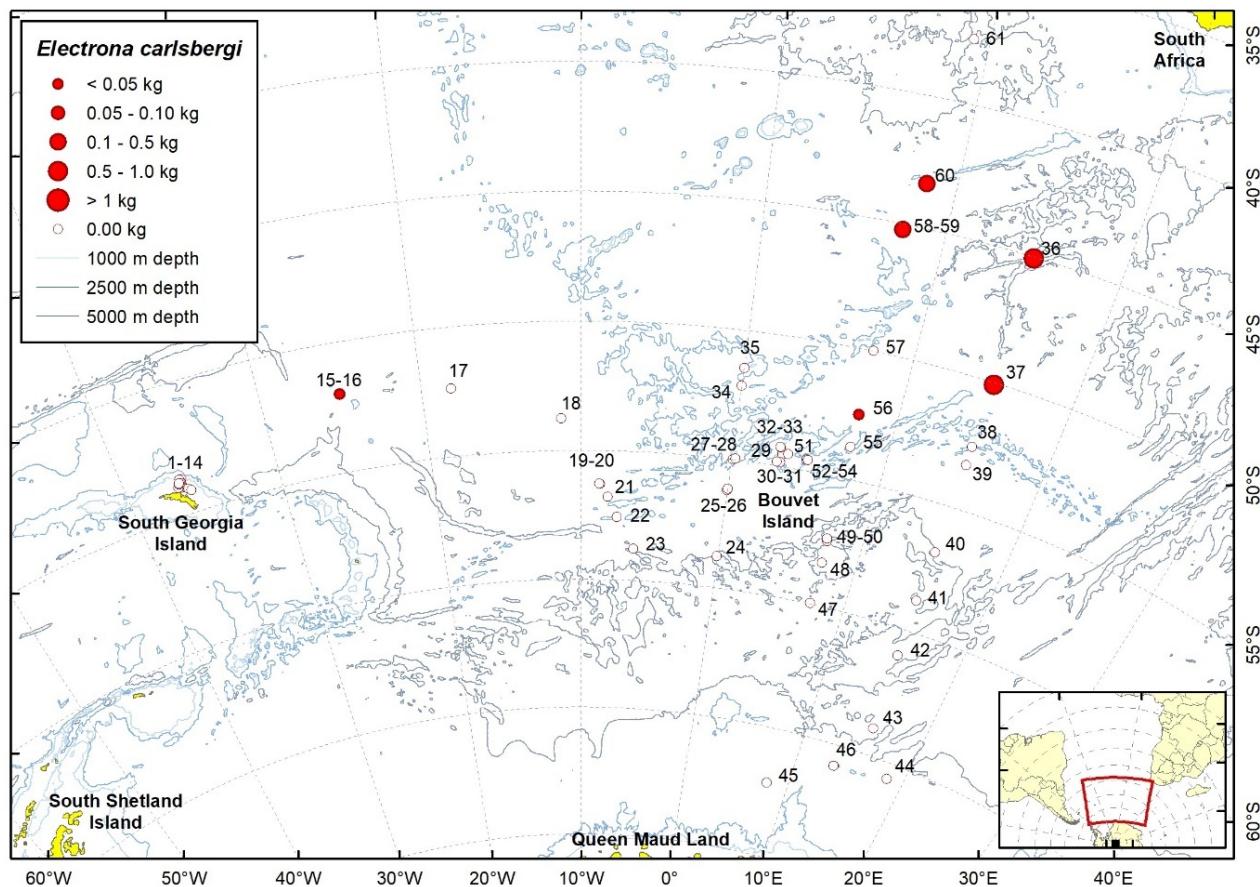


Figure 32b. Trawl stations with presence of *Electrona carlsbergi* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 22. Station information with presence of *Electrona carlsbergi*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

16	25.01.2008	51,98	S	25,05	W	1	6,6	3,23	45,05
36	22.02.2008	45,03	S	15,00	E	5045	788,5	1,60	4,28
37	24.02.2008	50,07	S	15,04	E	154	752,0	3,32	14,43
56	14.03.2008	52,49	S	7,54	E	1	18,7	0,44	188,87
58	17.03.2008	45,20	S	7,65	E	16	157,0	10,17	19,92
60	18.03.2008	43,29	S	8,40	E	498	160,3	110,70	332,36

### Electrona carlsbergi

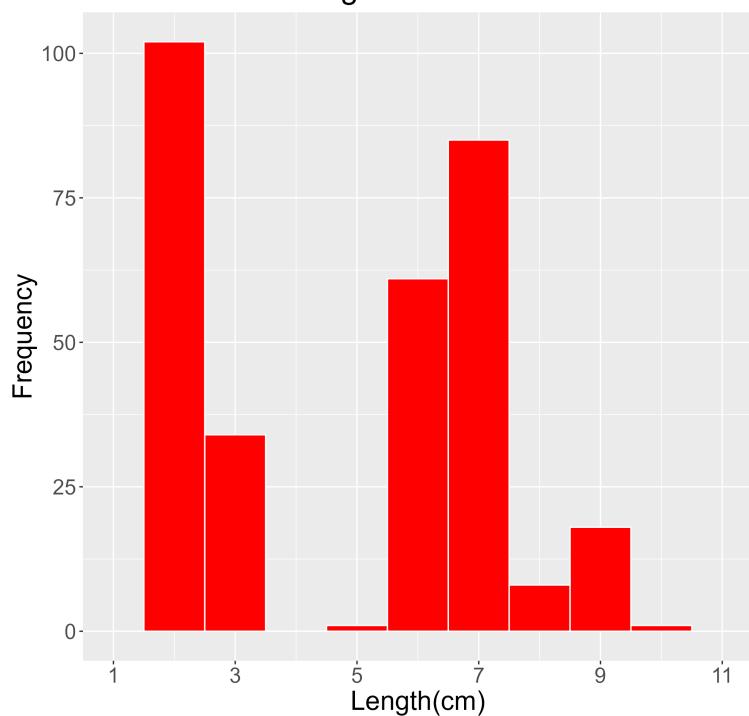


Figure 33. Length frequency of *Electrona carlsbergi* for all trawl stations combined. Frequency shown as number of individuals.

#### 2.13.4 - *Electrona paucirastra* Bolin, 1962



Figure 34a. Exemplary image of *Electrona paucirastra*.

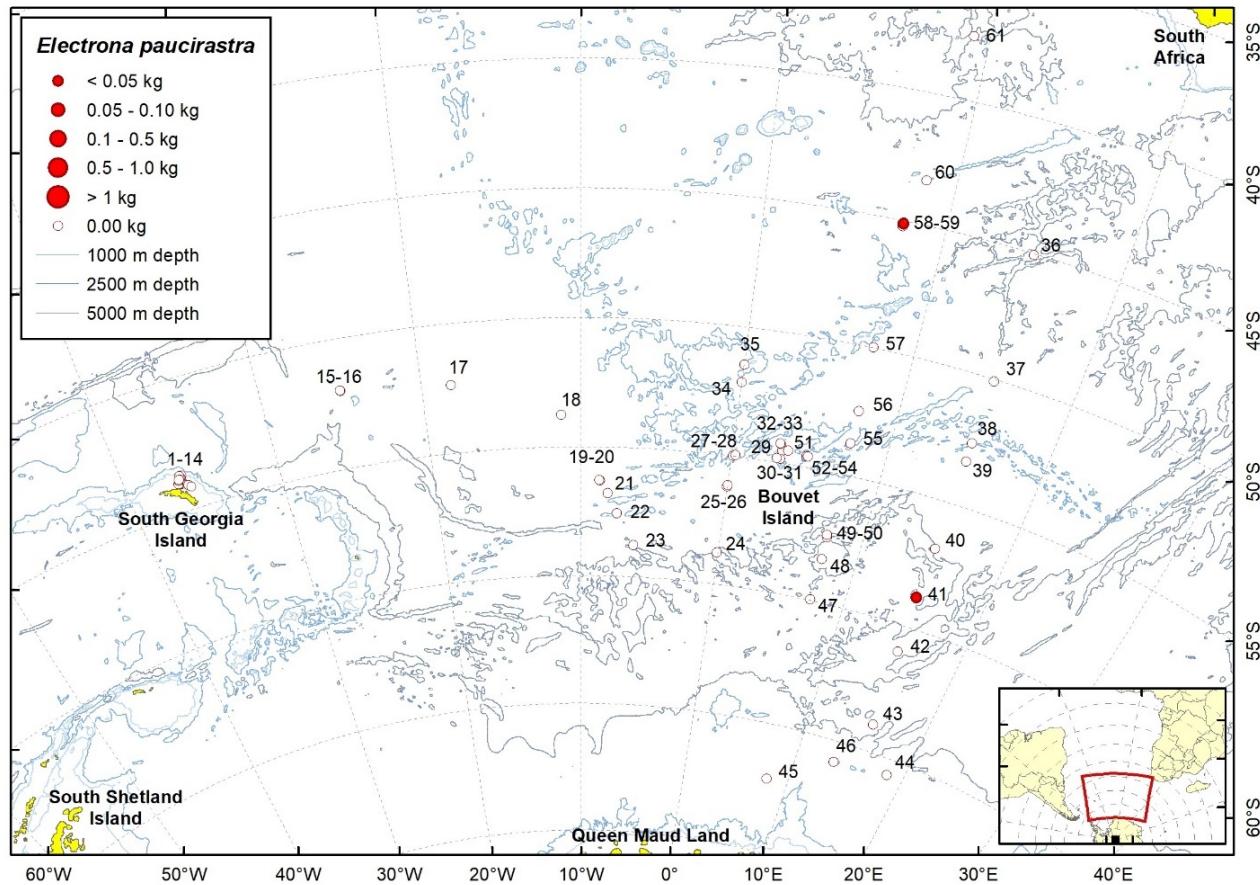


Figure 34b. Trawl stations with presence of *Electrona paucirastra* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 23. Station information with presence of *Electrona paucirastra*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

41	27.02.2008	58,81	S	15,00	E	1	0,3	0,34	210,17
59	17.03.2008	45,11	S	7,66	E	3	12,0	1,02	5,63

### 2.13.5 - *Electrona subaspera* (Günther, 1864)



Figure 35a. Exemplary image of *Electrona subaspera*.

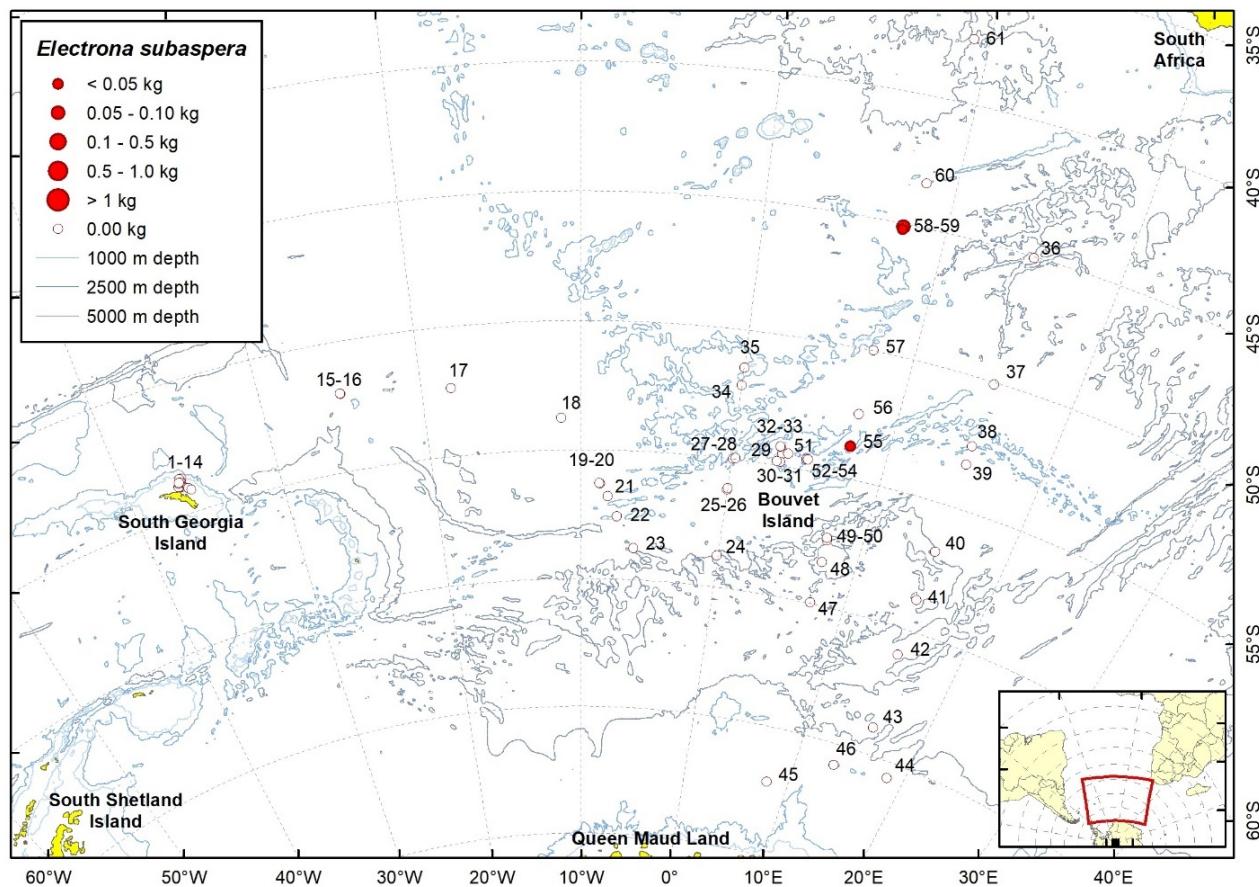


Figure 35b. Trawl stations with presence of *Electrona subaspera* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 24. Station information with presence of *Electrona subaspera*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
55	13.03.2008	53,75 S	7,49 E	1	40,0	1,18	382,02
58	17.03.2008	45,20 S	7,65 E	1	2,4	10,17	19,92
59	17.03.2008	45,11 S	7,66 E	21	82,0	1,02	5,63

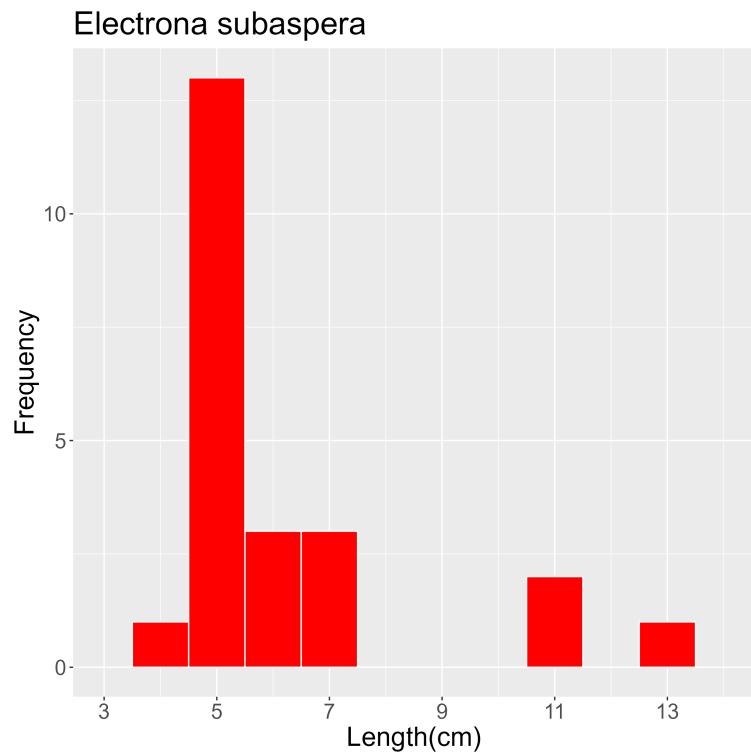


Figure 36. Length frequency of *Electrona subaspera* for all trawl stations combined. Frequency shown as number of individuals.

### 2.13.6 - *Gymnoscopelus bolini* Andriashov, 1962



Figure 37a. Exemplary image of *Gymnoscopelus bolini*.

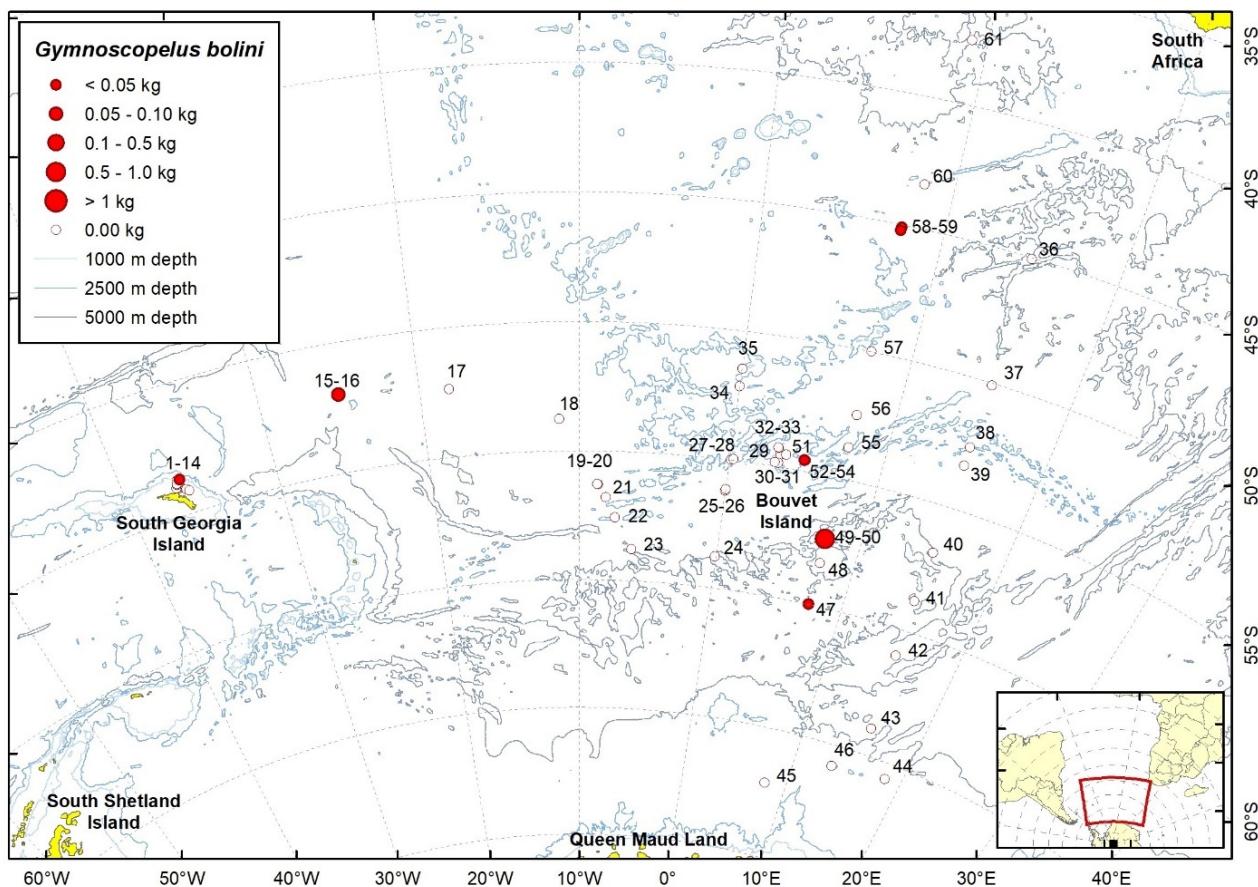


Figure 37b. Trawl stations with presence of *Gymnoscopelus bolini* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 25. Station information with presence of *Gymnoscopelus bolini*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
4	20.01.2008	53,64 S	36,26 W	1	29,2	0,42	4,32
16	24.01.2008	51,99 S	25,00 W	1	92,9	3,23	45,05

47	07.03.2008	59,98	S	7,47	E	1	21,0	1,58	44,63
50	08.03.2008	57,39	S	7,44	E	7	602,0	26,34	31,75
53	12.03.2008	54,57	S	4,87	E	1	2,7	0,07	4,33
58	17.03.2008	45,20	S	7,65	E	1	6,0	10,17	19,92
59	17.03.2008	45,06	S	7,67	E	5	34,0	1,02	5,63

### 2.13.7 - *Gymnoscopelus braueri* (Lönnberg, 1905)



Figure 38a. Exemplary image of *Gymnoscopelus braueri*.

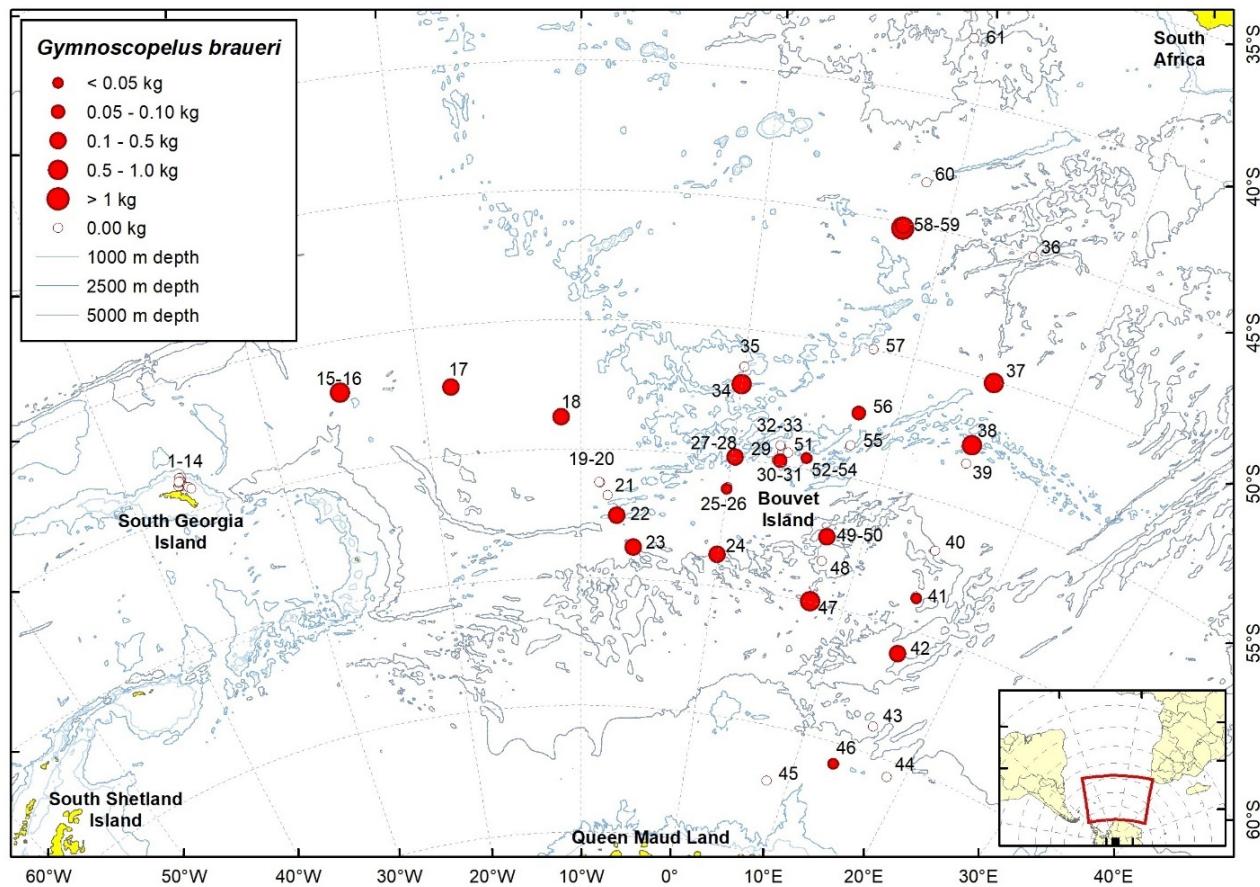


Figure 38a. Trawl stations with presence of *Gymnoscopelus braueri* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 26. Station information with presence of *Gymnoscopelus braueri*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

16	24.01.2008	51,99	S	25,00	W	62	721,6	3,23	45,05
17	26.01.2008	52,33	S	18,16	W	48	129,3	1,20	26,43
18	27.01.2008	53,75	S	11,29	W	43	121,0	3,07	24,11
22	30.01.2008	57,53	S	7,49	W	58	239,4	0,67	20,43
23	30.01.2008	58,76	S	6,22	W	17	214,8	4,14	13,02
24	31.01.2008	58,76	S	0,04	W	11	105,2	1,49	29,02
25	01.02.2008	56,21	S	0,05	W	1	2,3	0,18	44,71
28	02.02.2008	54,95	S	0,20	E	28	105,3	0,47	89,03
30	03.02.2008	54,85	S	3,19	E	16	57,9	1,44	273,78
34	06.02.2008	52,12	S	0,02	W	203	824,0	4,15	44,70
37	24.02.2008	50,04	S	15,02	E	49	544,0	3,32	14,43
38	25.02.2008	52,55	S	14,99	E	106	507,8	3,66	49,50
41	27.02.2008	58,78	S	14,99	E	4	10,5	0,34	210,17
42	28.02.2008	60,98	S	15,13	E	28	143,5	0,59	50,67
46	05.03.2008	65,80	S	13,38	E	3	21,6	1,59	32,17
47	07.03.2008	59,98	S	7,47	E	107	800,0	1,58	44,63
50	08.03.2008	57,39	S	7,44	E	18	251,0	26,34	31,75
53	12.03.2008	54,57	S	4,87	E	1	2,5	0,07	4,33
56	14.03.2008	52,51	S	7,53	E	34	54,5	0,44	188,87
58	17.03.2008	45,20	S	7,65	E	180	1799,0	10,17	19,92
59	17.03.2008	45,11	S	7,66	E	102	287,0	1,02	5,63

### Gymnoscopelus braueri

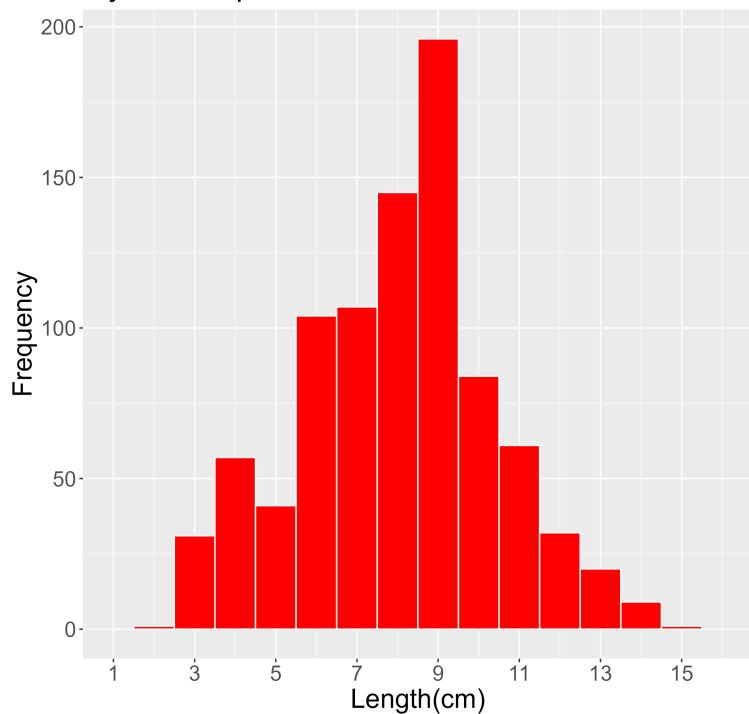


Figure 39. Length frequency of *Gymnoscopelus braueri* for all trawl stations combined. Frequency shown as number of individuals.

### 2.13.8 - *Gymnoscopelus fraseri* (Fraser-Brunner, 1931)



Figure 40a. Exemplary image of *Gymnoscopelus fraseri*.

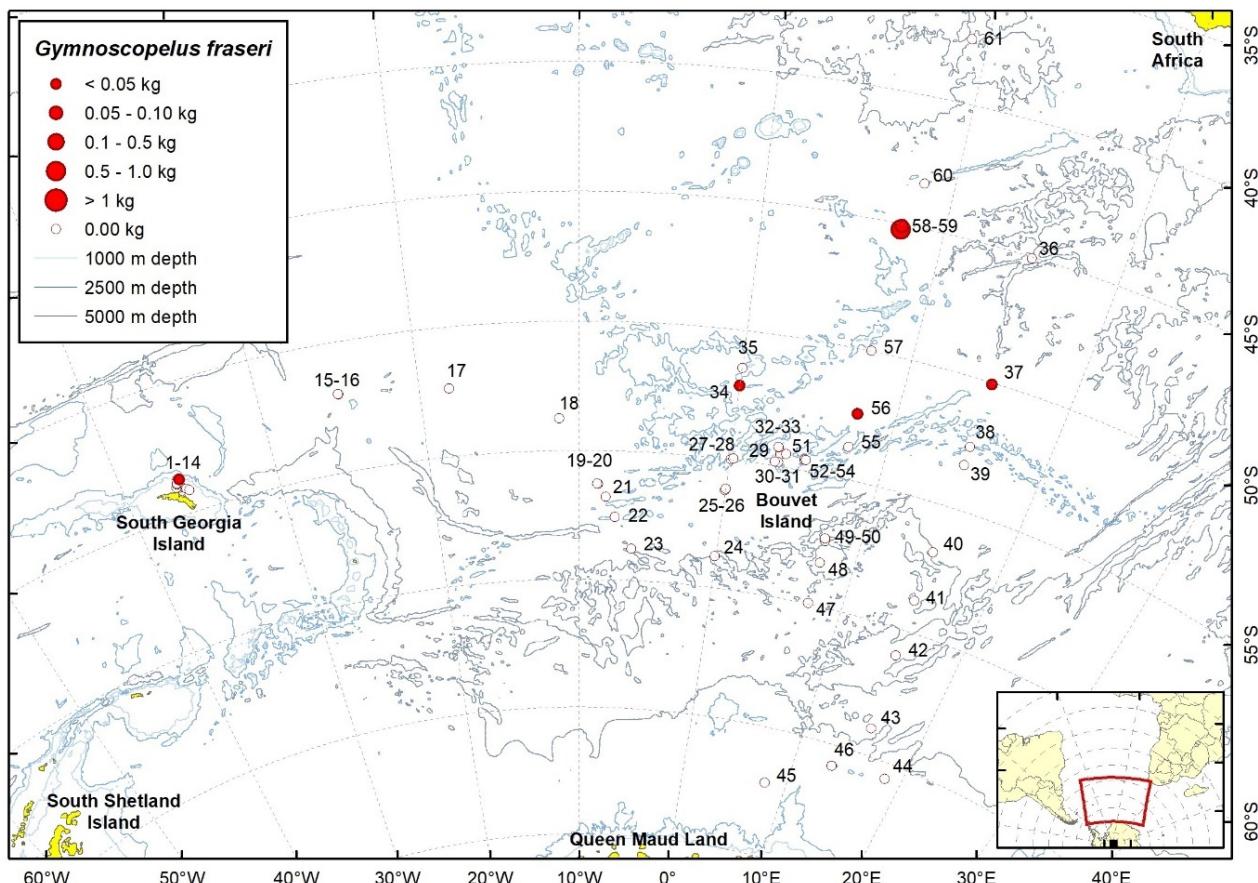


Figure 40b. Trawl stations with presence of *Gymnoscopelus fraseri* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 27. Station information with presence of *Gymnoscopelus fraseri*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
4	20.01.2008	53,64 S	36,27 W	1	0,03	0,42	4,32

34	06.02.2008	52,12	S	0,02	W		4	0,01		4,15	44,70
37	24.02.2008	50,04	S	15,02	E		1	0,02		3,32	14,43
56	14.03.2008	52,51	S	7,53	E		1	0,00		0,44	188,87
58	17.03.2008	45,2	S	7,65	E		123	0,90		10,17	19,92
59	17.03.2008	45,11	S	7,66	E		1	0,07		1,02	5,63

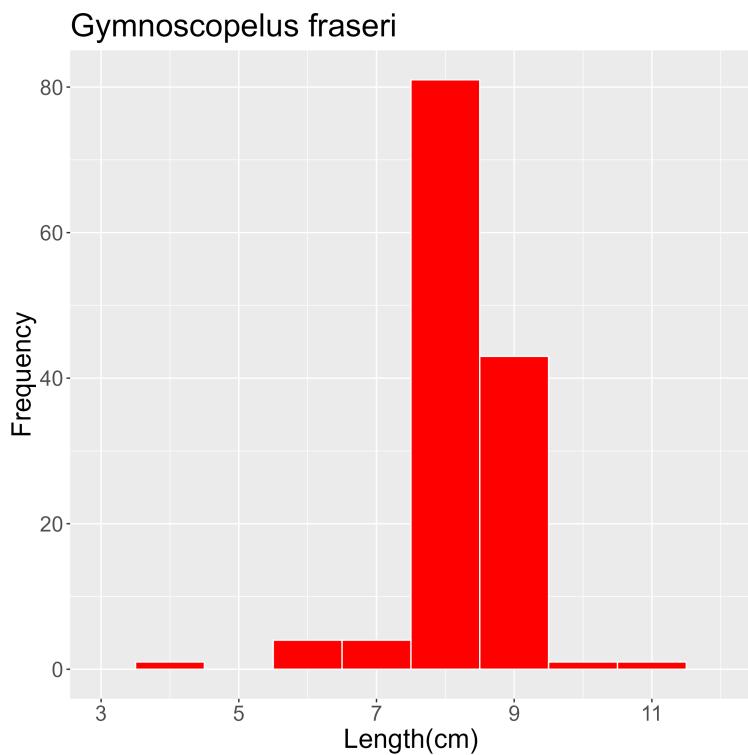


Figure 41. Length frequency of *Gymnoscopelus fraseri* for all trawl stations combined. Frequency shown as number of individuals.

### 2.13.9 - *Gymnoscopelus hintonoides* Hulley, 1981



Figure 42a. Exemplary image of *Gymnoscopelus hintonoides*.

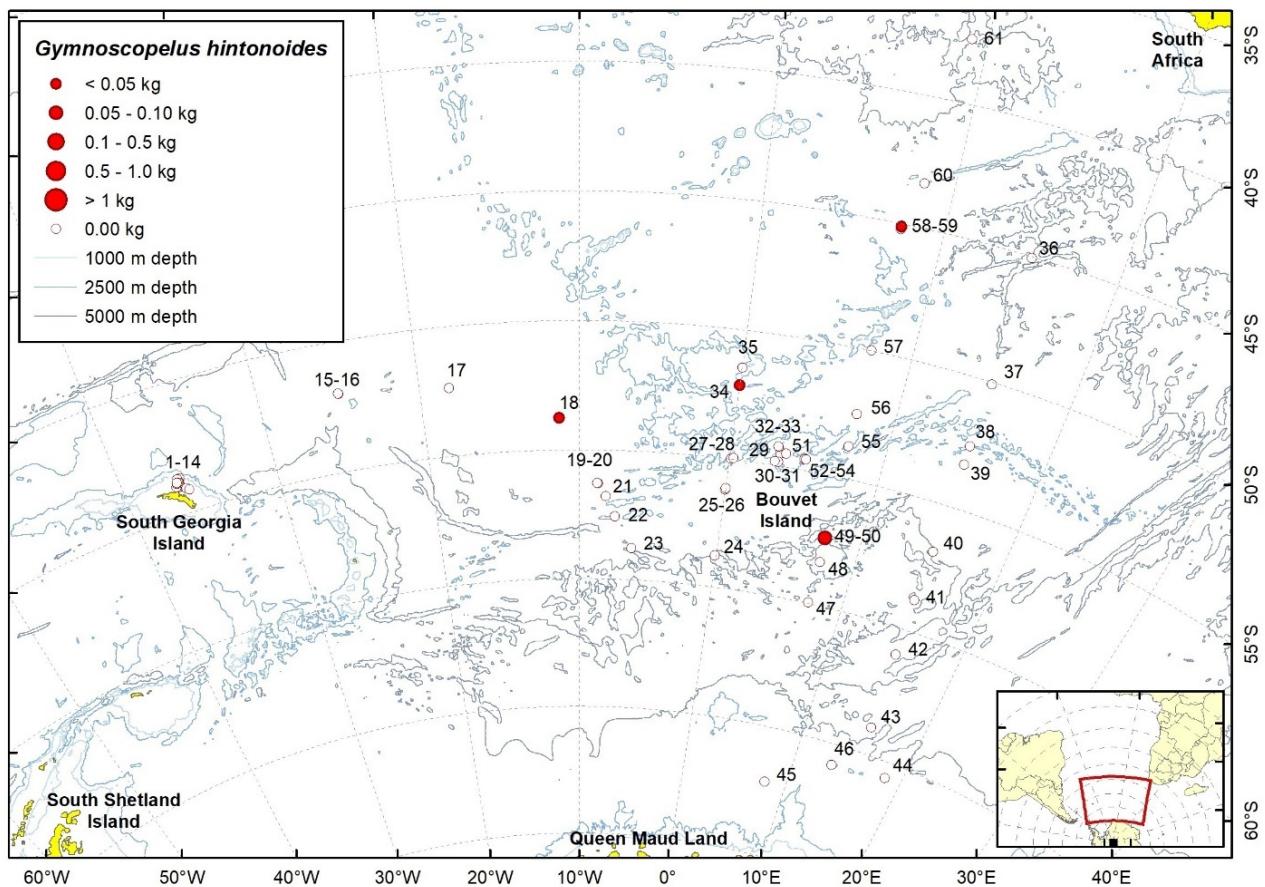


Figure 42b. Trawl stations with presence of *Gymnoscopelus hintonoides* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 28. Station information with presence of *Gymnoscopelus hintonoides*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

18	27.01.2008	53,75	S	11,29	W	1	2,8	3,07	24,11
34	06.02.2008	52,12	S	0,02	W	4	10,0	4,15	44,70
50	08.03.2008	57,39	S	7,44	E	3	81,0	26,34	31,75
59	17.03.2008	45,11	S	7,66	E	5	14,0	1,02	5,63

2.13.10 - *Gymnoscopelus microlampas* Hulley, 1981



Figure 43a. Exemplary image of *Gymnoscopelus microlampas*.

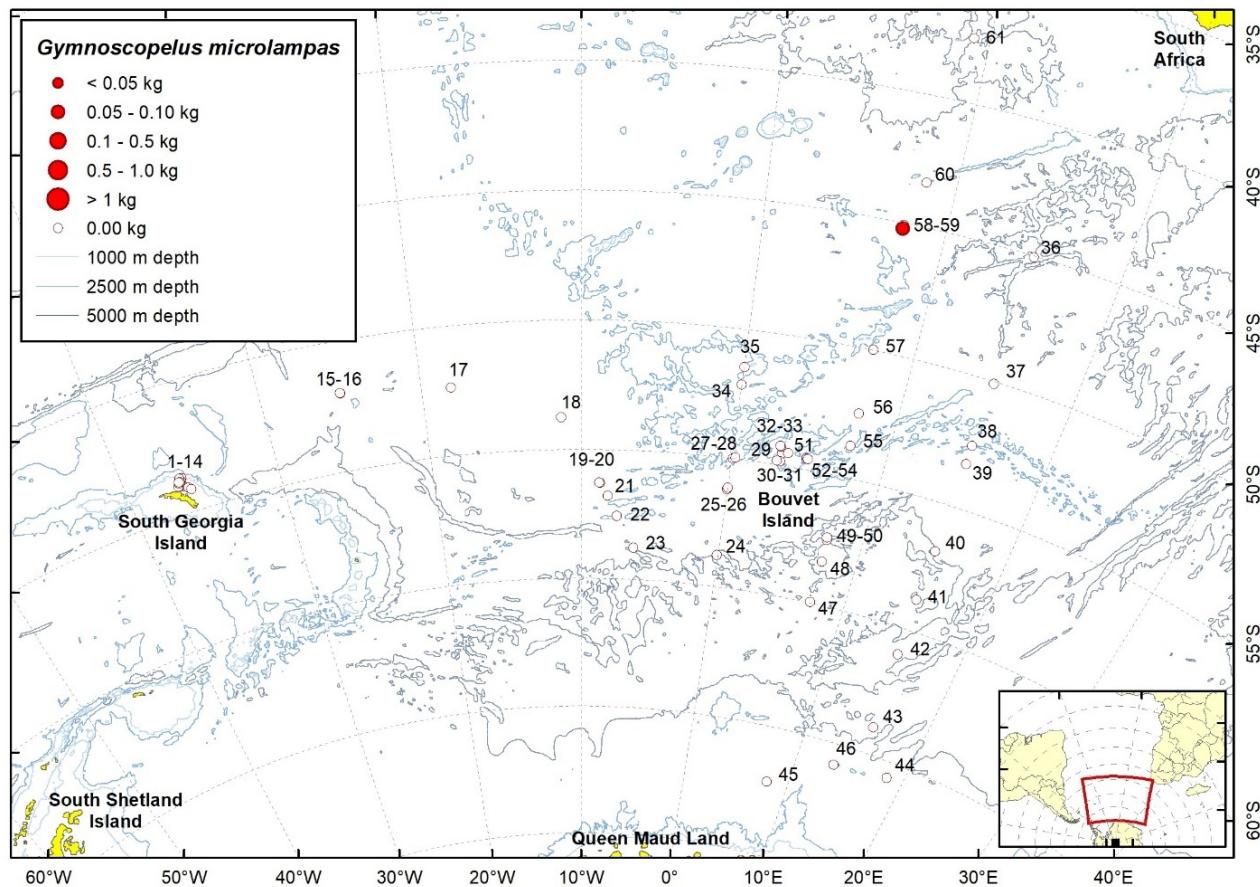


Figure 43b. Trawl stations with presence of *Gymnoscopelus microlampas* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 29. Station information with presence of *Gymnoscopelus microlampas*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	10	56,0	10,17	19,92

**2.13.11 - *Gymnoscopelus nicholsi* (Gilbert, 1911)**



Figure 44a. Exemplary image of *Gymnoscopelus nicholsi*.

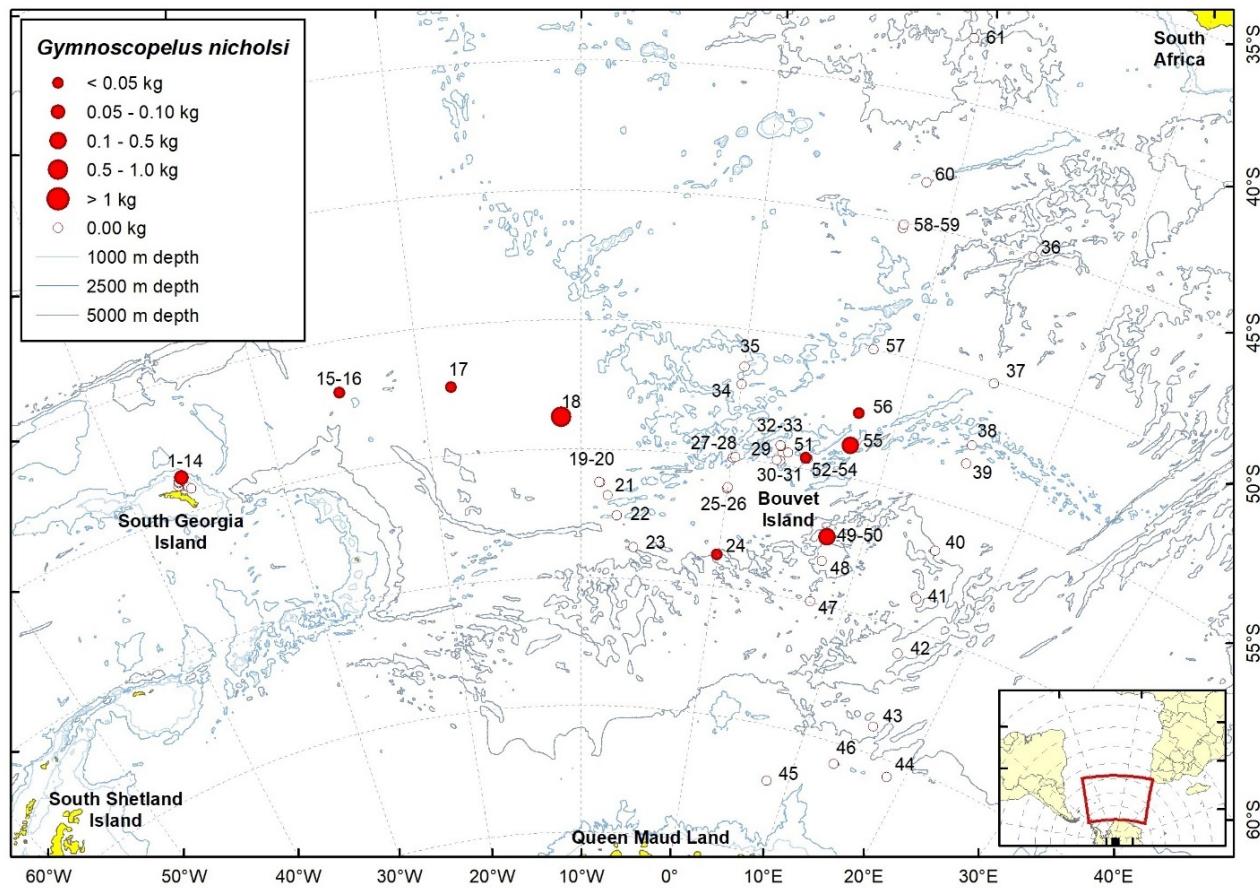


Figure 44b. Trawl stations with presence of *Gymnoscopelus nicholsi* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 30. Station information with presence of *Gymnoscopelus nicholsi*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

4	20.01.2008	53,64	S	36,26	W	1	82,7	0,42	4,32
16	25.01.2008	51,98	S	25,07	W	1	12,5	3,23	45,05
17	26.01.2008	52,36	S	18,15	W	3	36,1	1,20	26,43
18	27.01.2008	53,75	S	11,29	W	39	767,0	3,07	24,11
24	31.01.2008	58,77	S	0,08	W	1	39,0	1,49	29,02
50	08.03.2008	57,39	S	7,44	E	18	251,0	26,34	31,75
53	12.03.2008	54,57	S	4,83	E	1	16,0	0,07	4,33
55	13.03.2008	53,75	S	7,49	E	11	269,0	1,18	382,02
56	14.03.2008	52,49	S	7,54	E	2	38,0	0,44	188,87

2.13.12 - *Gymnoscopelus opisthopterus* Fraser-Brunner, 1949



Figure 45a. Exemplary image of *Gymnoscopelus opisthopterus*.

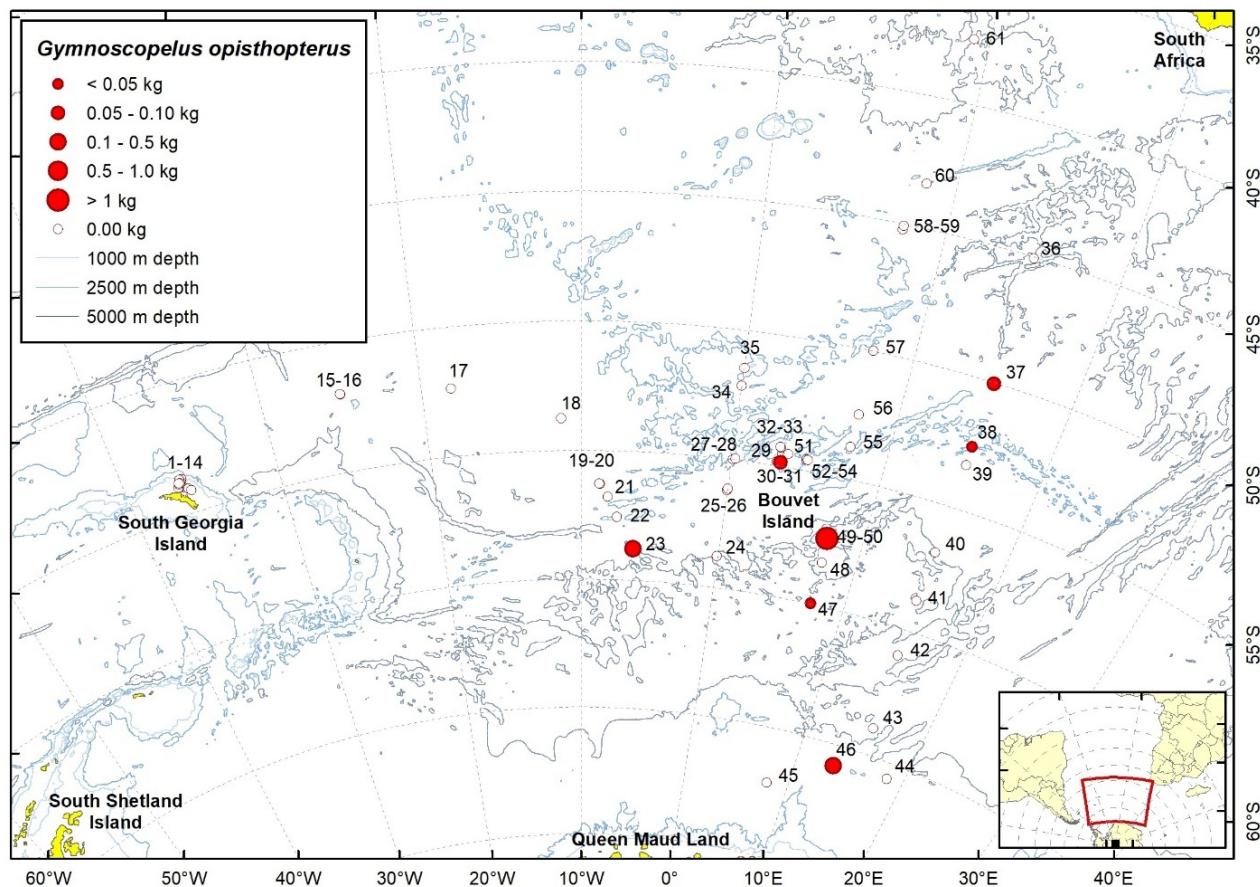


Figure 45b. Trawl stations with presence of *Gymnoscopelus opisthopterus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 31. Station information with presence of *Gymnoscopelus opisthopterus*.

Station	Date	Latitude		Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
23	30.01.2008	58,76	S	6,22	W	7	126,0	4,14	13,02
30	03.02.2008	54,84	S	3,23	E	5	51,6	1,44	273,78
37	24.02.2008	50,04	S	15,02	E	5	51,4	3,32	14,43
38	25.02.2008	52,57	S	15,00	E	1	29,0	3,66	49,50
46	05.03.2008	65,80	S	13,38	E	30	195,5	1,59	32,17
47	07.03.2008	59,98	S	7,47	E	3	42,0	1,58	44,63
50	08.03.2008	57,39	S	7,44	E	554	11685,0	26,34	31,75

2.13.13 - *Gymnoscopelus piabilis* (Whitley, 1931)

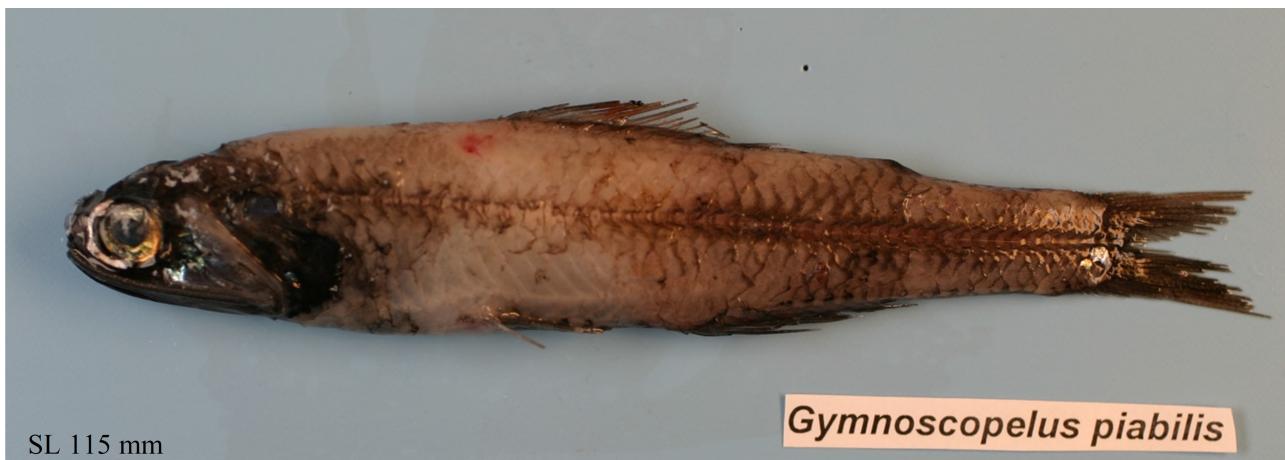


Figure 46a. Exemplary image of *Gymnoscopelus piabilis*.

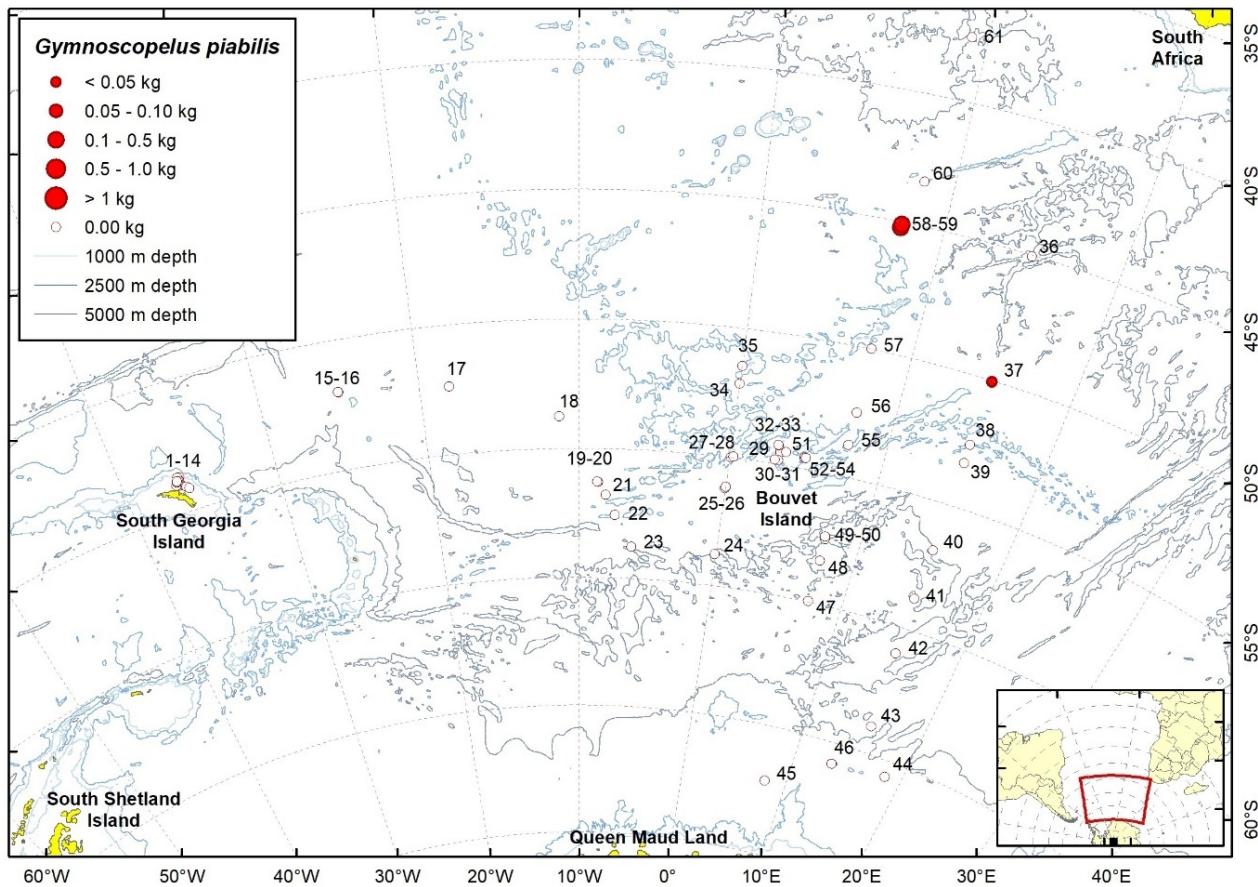


Figure 46b. Trawl stations with presence of *Gymnoscopelus piabilis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 32. Station information with presence of *Gymnoscopelus piabilis*.

Station	Date	Latitude		Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
37	24.02.2008	50,04	S	15,02	E	2	34,6	3,32	14,43
58	17.03.2008	45,20	S	7,65	E	23	138,0	10,17	19,92
59	17.03.2008	45,06	S	7,67	E	15	115,0	1,02	5,63

**2.13.14 - *Gymnoscopelus* spp .**

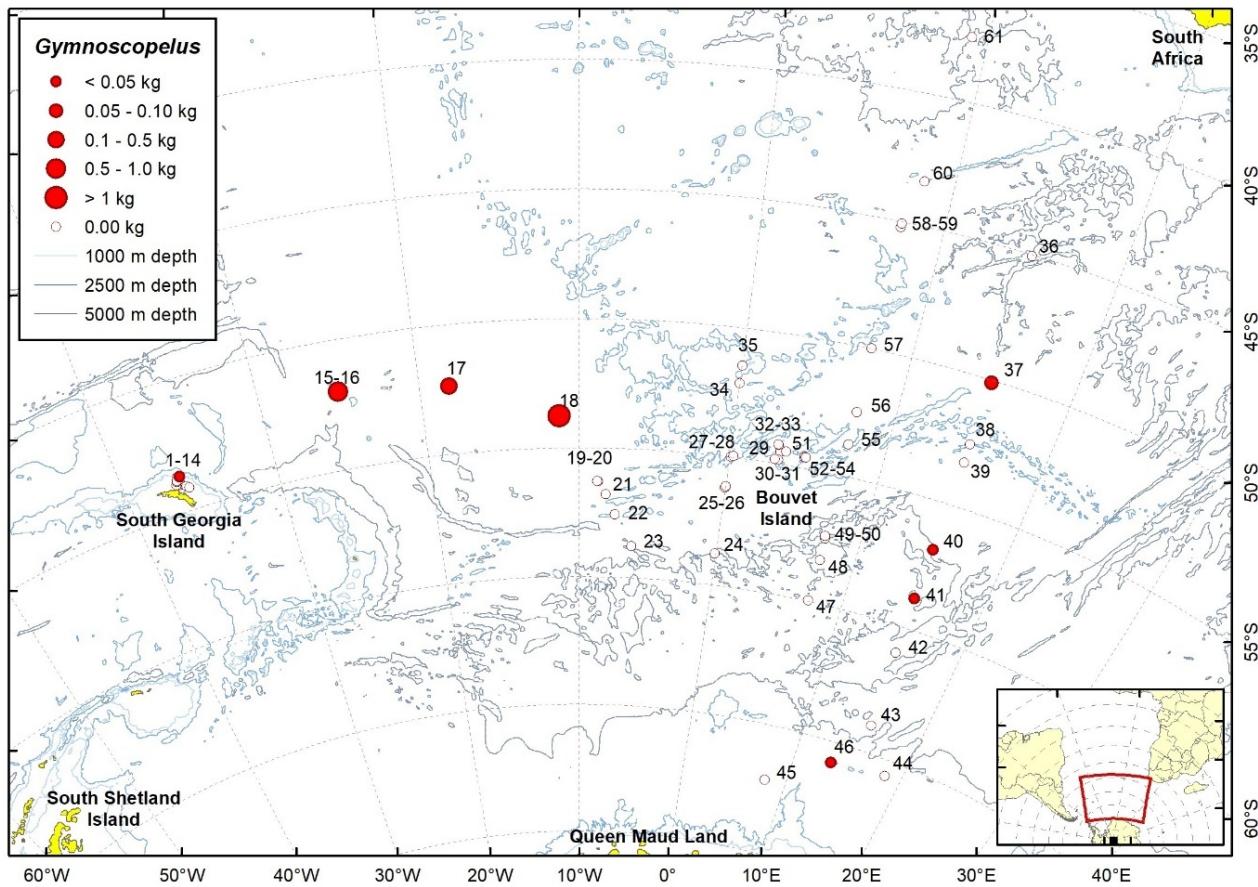


Figure 47. Trawl stations with presence of *Gymnoscopelus* spp. in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 33. Station information with presence of *Gymnoscopelus* spp.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
4	20.01.2008	53,64 S	36,26 W	5	16,0	0,42	4,32
16	24.01.2008	51,99 S	25,00 W	118	740,1	3,23	45,05
17	26.01.2008	52,33 S	18,16 W	186	155,9	1,20	26,43
18	27.01.2008	53,75 S	11,29 W	420	1181,0	3,07	24,11
37	24.02.2008	50,10 S	15,05 E	312	78,0	3,32	14,43
40	26.02.2008	56,82 S	15,03 E	13	3,0	0,00	3,35
41	27.02.2008	58,81 S	15,00 E	1	3,0	0,34	210,17
46	05.03.2008	65,80 S	13,38 E	2	0,5	1,59	32,17



2.13.15 - *Hintonia candens* Fraser-Brunner, 1949



Figure 48a. Exemplary image of *Hintonia candens*.

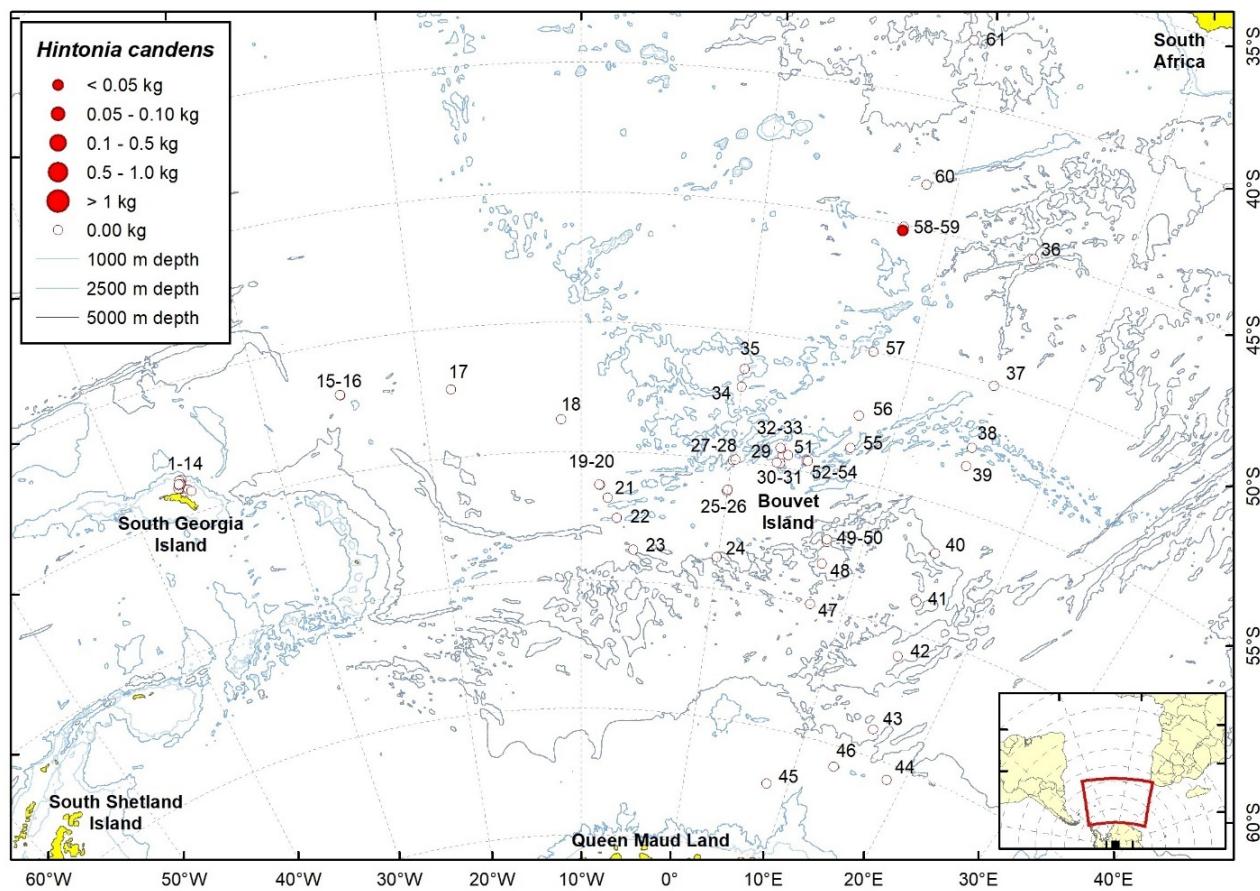


Figure 48b. Trawl stations with presence of *Hintonia candens* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 34. Station information with presence of *Hintonia candens*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65	E	1	12,0	10,17	19,92

### 2.13.16 - Krefftichthys anderssoni (Lönnberg, 1905)



Figure 49a. Exemplary image of *Krefftichthys anderssoni*.

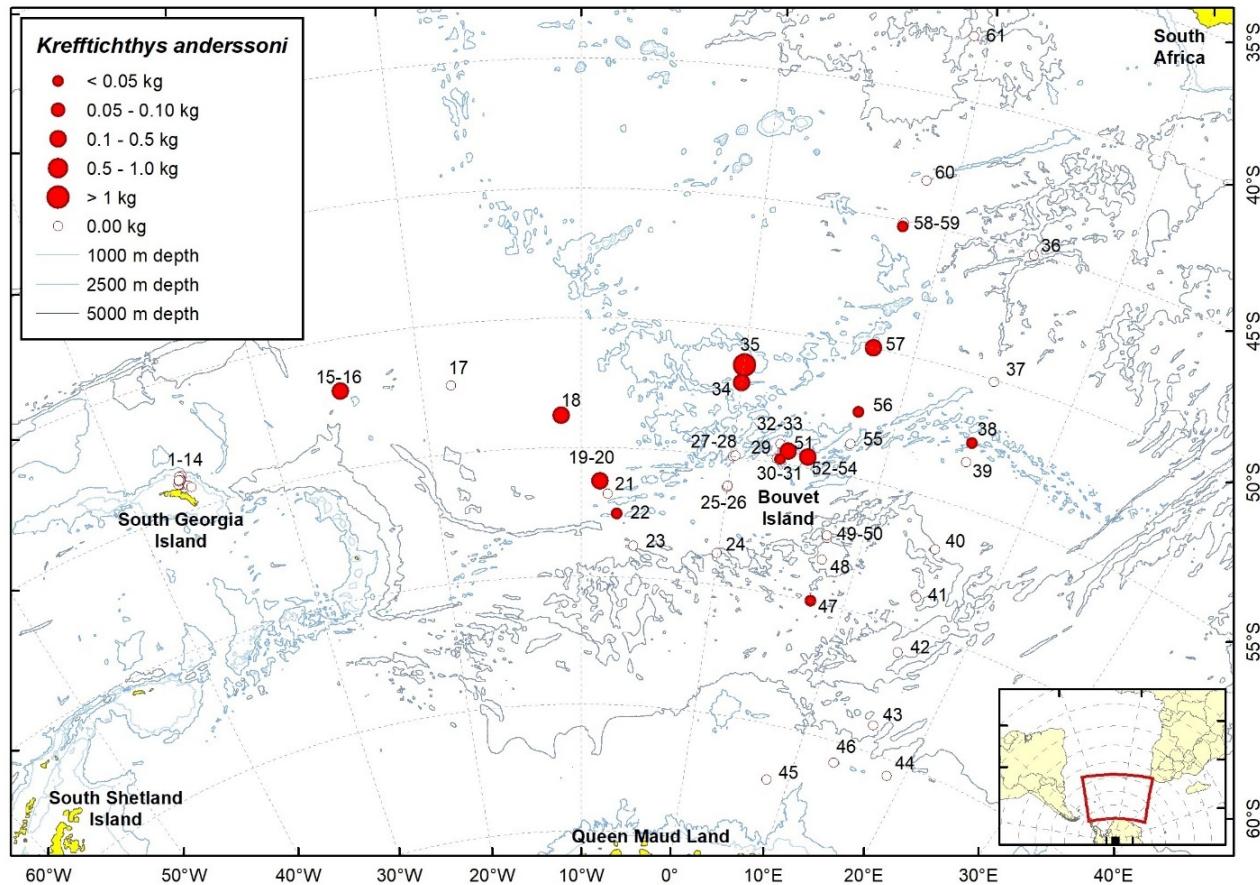


Figure 49b. Trawl stations with presence of *Krefftichthys anderssoni* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 35. Station information with presence of *Krefftichthys anderssoni*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,99 S	25,00 W	261	312,6	3,23	45,05

18	27.01.2008	53,75	S	11,29	W		195	113,0		3,07		24,11
19	29.01.2008	56,28	S	8,71	W		241	135,4		0,16		49,45
22	30.01.2008	57,53	S	7,49	W		10	11,9		0,67		20,43
30	03.02.2008	54,84	S	3,23	E		3	5,3		1,44		273,78
34	06.02.2008	52,12	S	0,02	W		139	316,0		4,15		44,70
35	06.02.2008	51,44	S	0,02	E		1643	2664,0		2,71		38,52
38	25.02.2008	52,55	S	14,99	E		6	9,0		3,66		49,50
47	07.03.2008	59,98	S	7,47	E		1	5,0		1,58		44,63
51	11.03.2008	54,49	S	3,62	E		300	360,0		0,36		5000,36
54	13.03.2008	54,58	S	4,98	E		184	257,0		0,26		85,64
56	14.03.2008	52,51	S	7,53	E		4	3,8		0,44		188,87
57	15.03.2008	49,98	S	7,53	E		105	196,0		0,22		40,00
58	17.03.2008	45,20	S	7,65	E		1	2,0		10,17		19,92

### Krefftichthys anderssoni

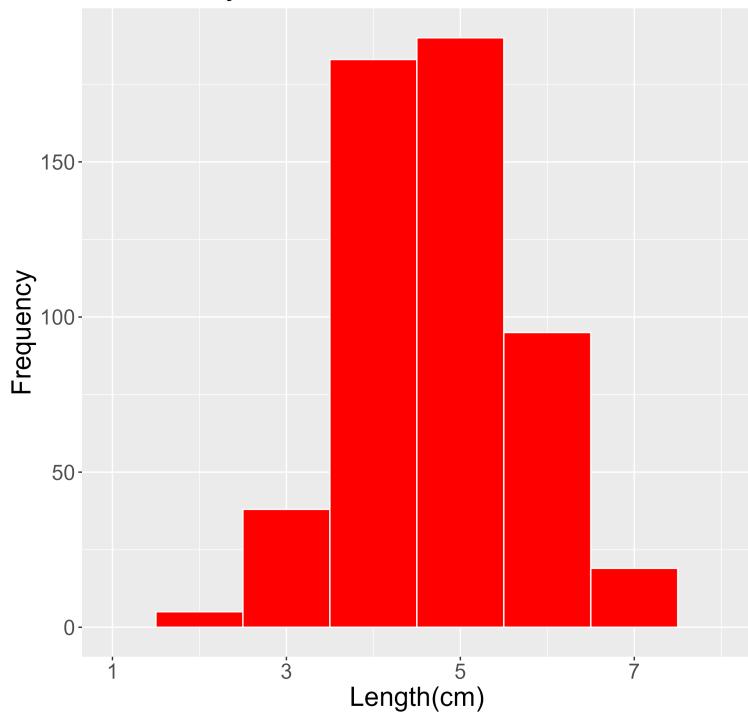


Figure 50. Length frequency of *Krefftichthys anderssoni* for all trawl stations combined. Frequency shown as number of individuals.

### 2.13.17 - *Lampanyctus achirus* Andriashov, 1962



Figure 51a. Exemplary image of *Lampanyctus achirus*.

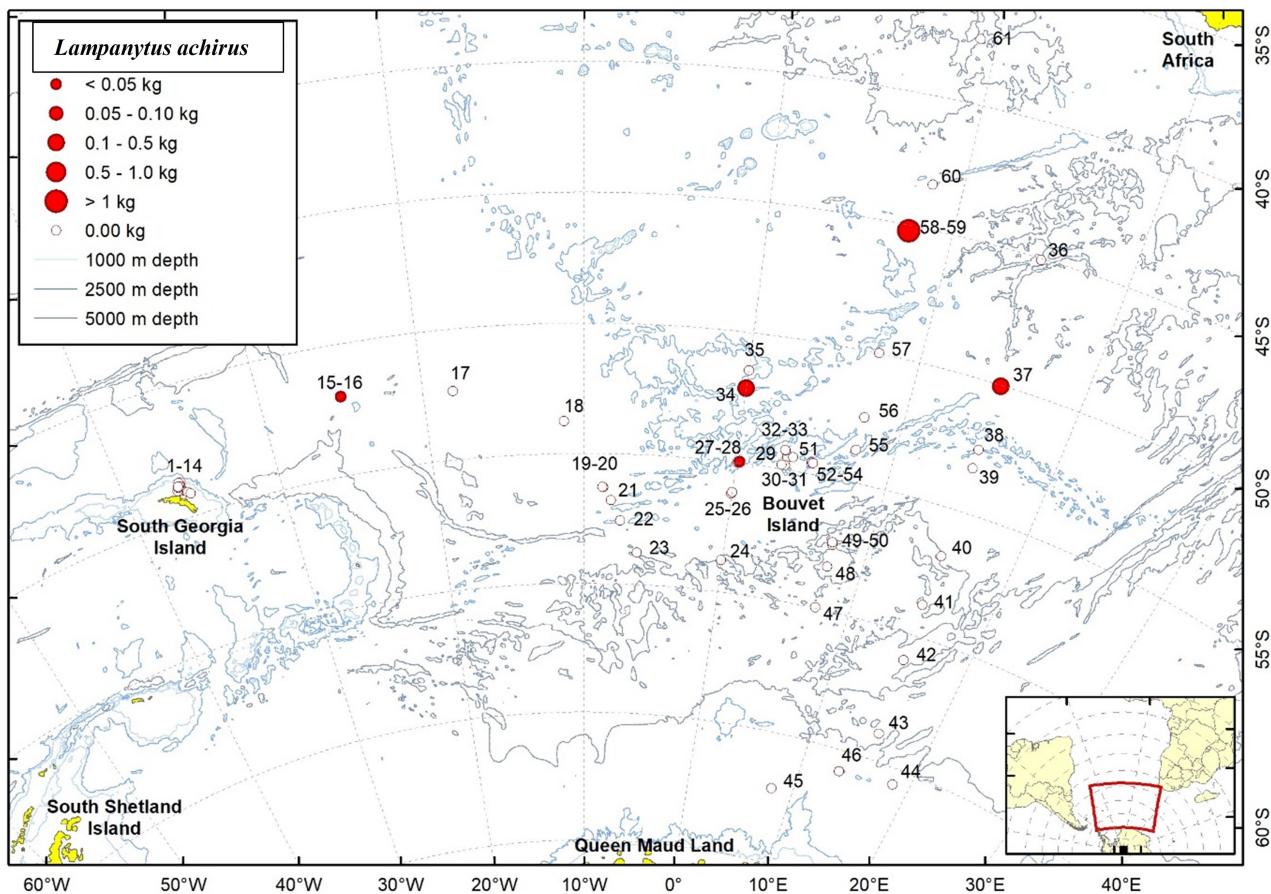


Figure 51b. Trawl stations with presence of *Lampanyctus achirus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 36. Station information with presence of *Lampanyctus achirus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,98 S	25,04 W	2	22,2	3,23	45,05
28	02.02.2008	54,95 S	0,20 E	1	17,4	0,47	89,03

34	06.02.2008	52,12	S	0,02	W	8	164,0	4,15	44,70
37	24.02.2008	50,04	S	15,02	E	8	158,0	3,32	4,28
58	17.03.2008	45,20	S	7,65	E	154	3260,0	10,17	19,92

**2.13.18 - *Lampanyctus ater* Tåning, 1928**



Figure 52a. Exemplary image of *Lampanyctus ater*.

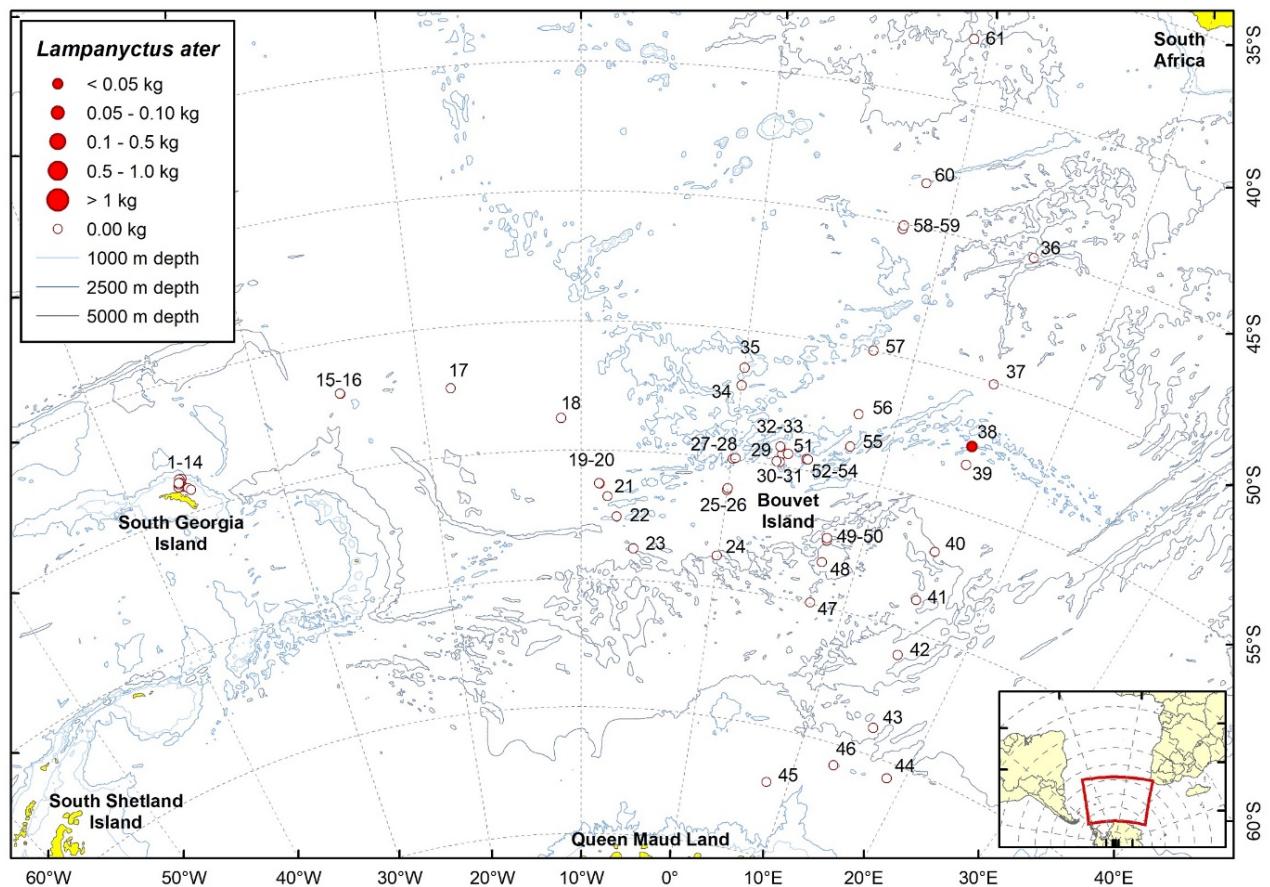


Figure 52b. Trawl stations with presence of *Lampanyctus ater* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 37. Station information with presence of *Lampanyctus ater*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

38	25.02.2008	52,57	S	15,00	E		1	4,5	3,66	49,50
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2.13.19 - *Lampanyctus australis* Tåning, 1932



Figure 53a. Exemplary image of *Lampanyctus australis*.

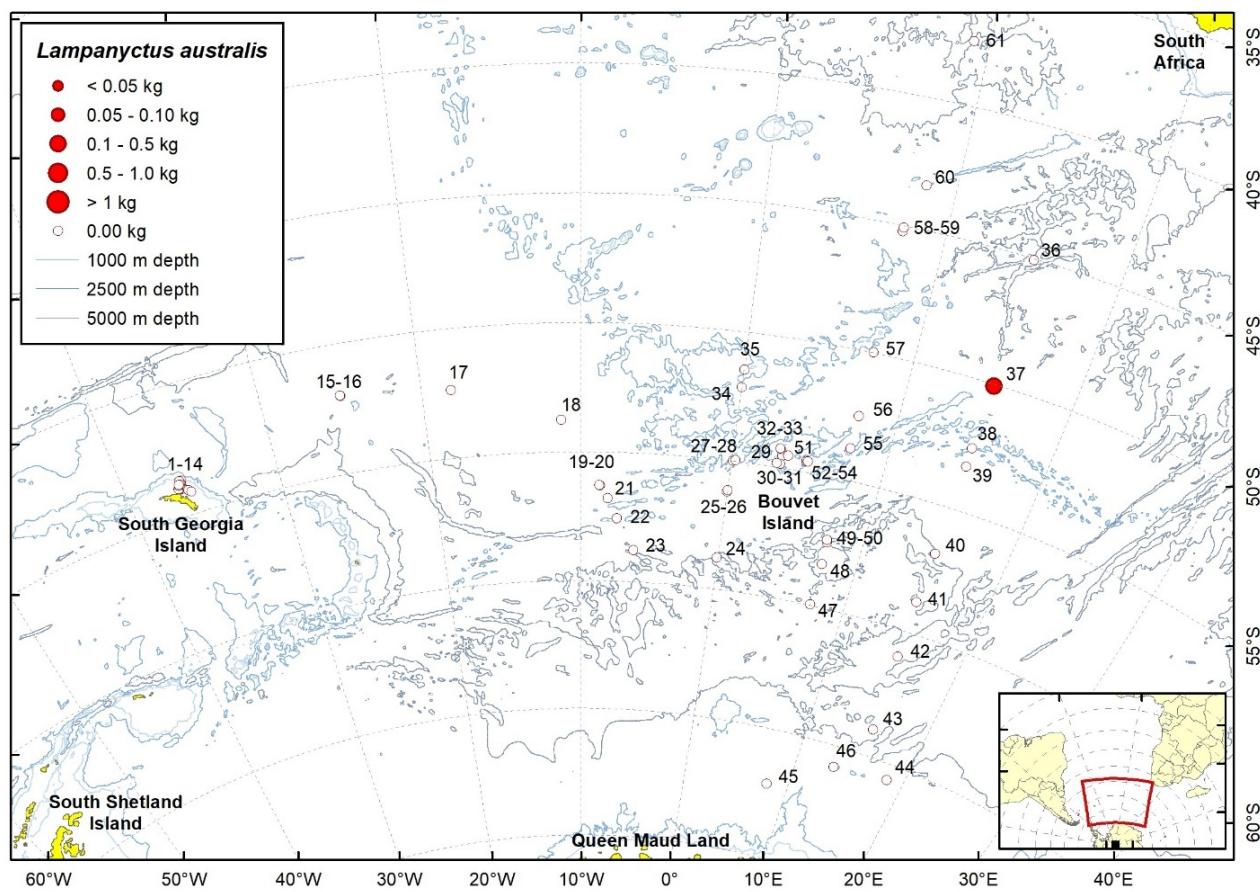


Figure 53b. Trawl stations with presence of *Lampanyctus australis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 38. Station information with presence of *Lampanyctus australis*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)	
37	24.02.2008	50,04	S	15,02	E	10	229,0	3,32	14,43

**2.13.20 - *Lampanyctus intricarius* Tåning, 1928**



Figure 54a. Exemplary image of *Lampanyctus intricarius*.

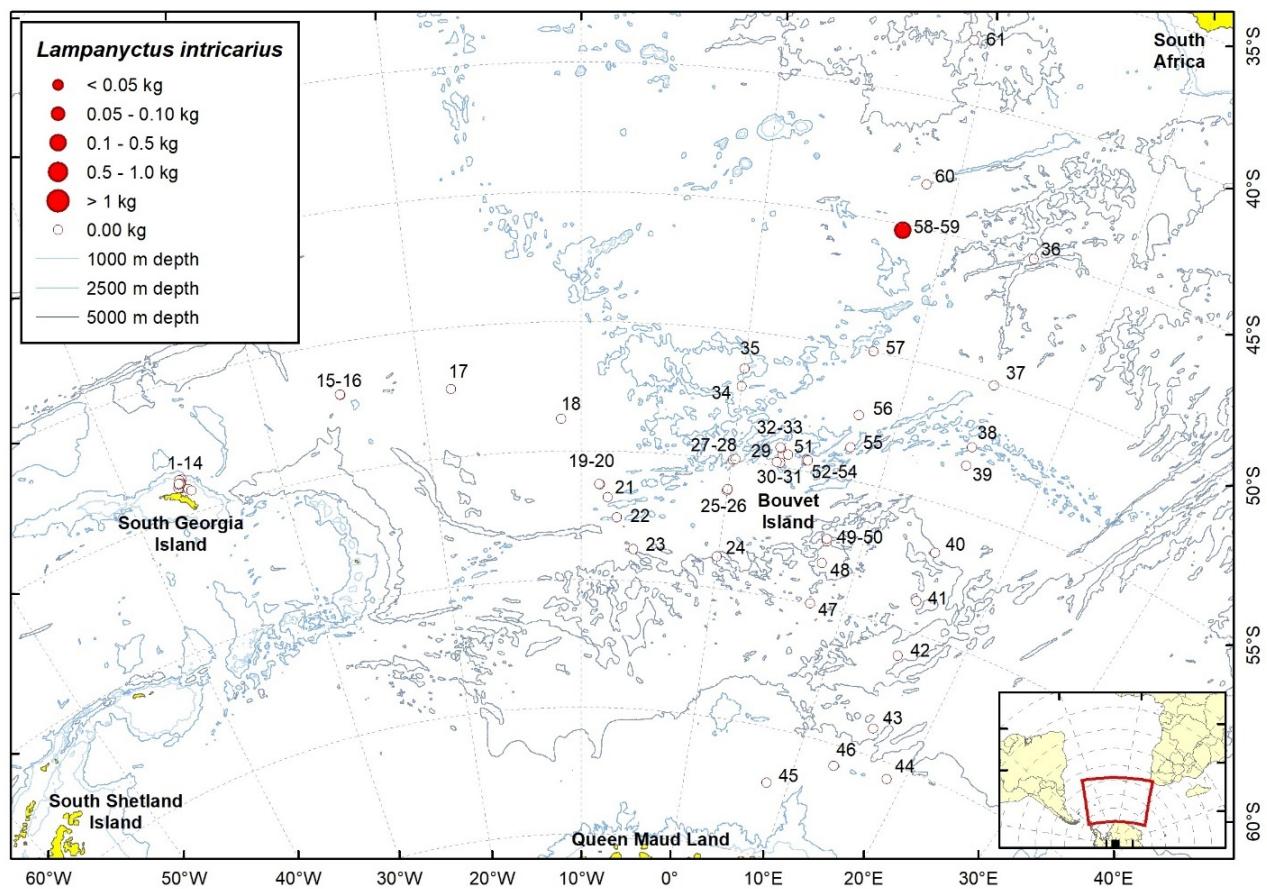


Figure 54b. Trawl stations with presence of *Lampanyctus intricarius* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 39. Station information with presence of *Lampanyctus intricarius*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

58	17.03.2008	45,20	S	7,65	E		3	133,0	10,17	19,92
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**2.13.21 - *Lampanyctus macdonaldi* (Goode & Bean, 1896)**



Figure 55a. Exemplary image of *Lampanyctus macdonaldi*.

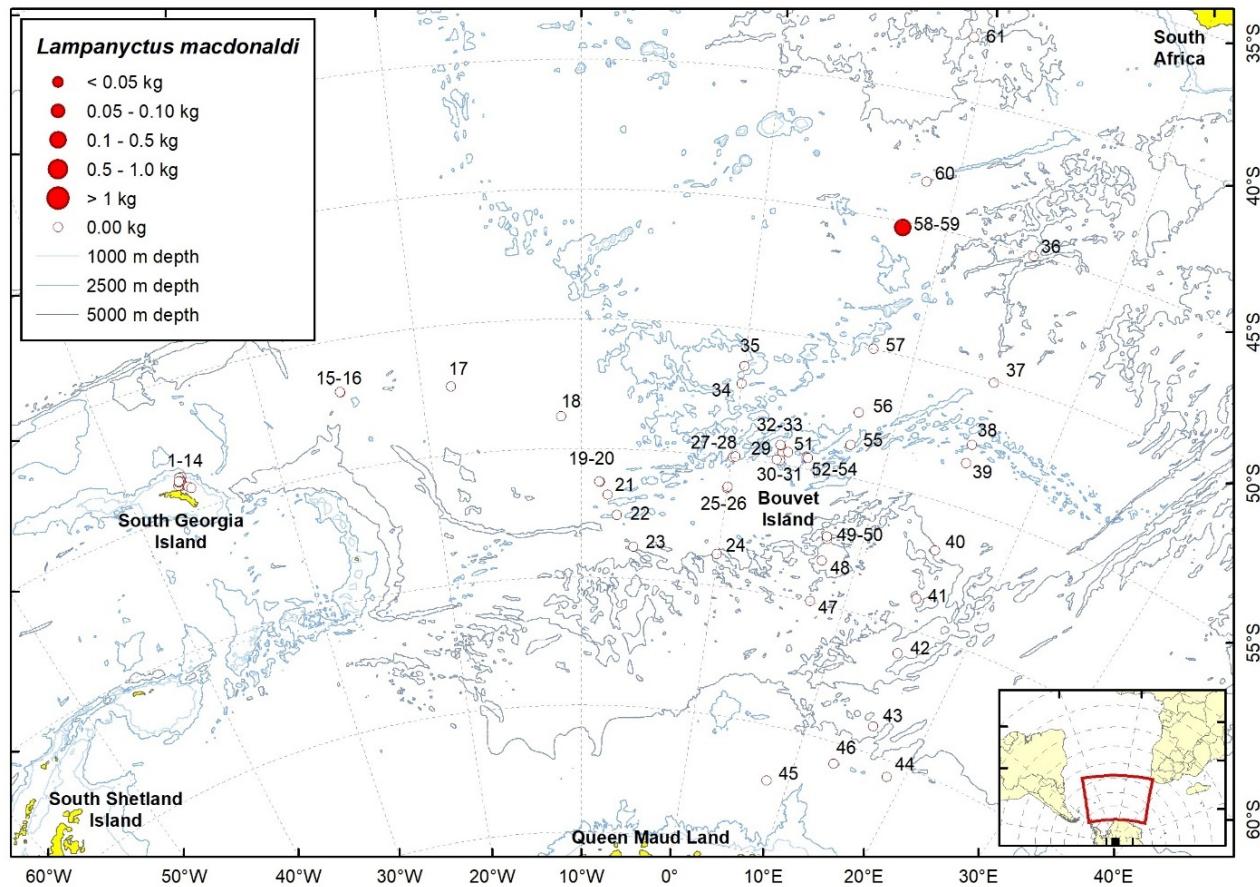


Figure 55b. Trawl stations with presence of *Lampanyctus macdonaldi* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 40. Station information with presence of *Lampanyctus macdonaldi*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	11	198,0	10,17	19,92



### 2.13.22 - *Metelectrona* spp.

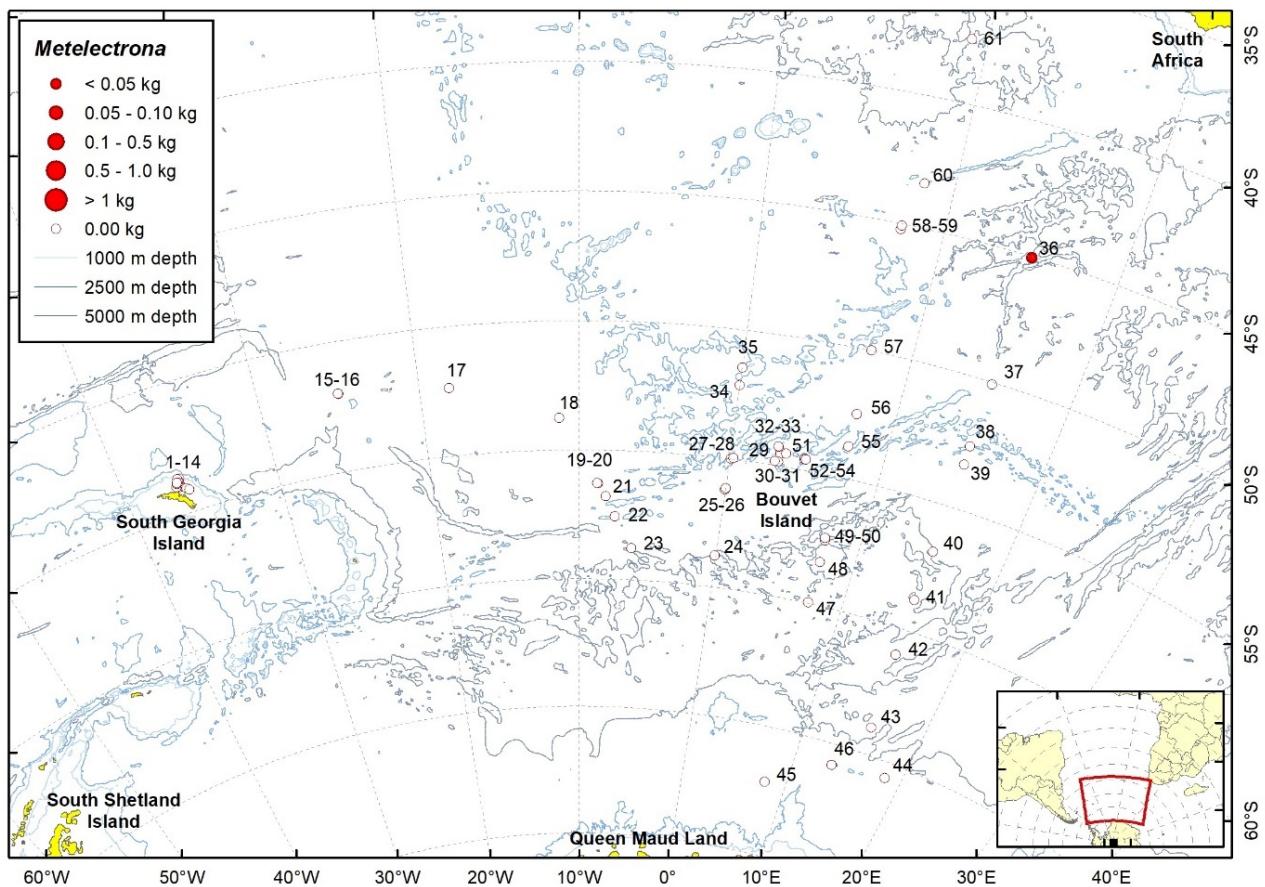


Figure 56. Trawl stations with presence of *Metelectrona* spp. in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 41. Station information with presence of *Metelectrona* spp.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
36	22.02.2008	45,04 S	15,00 E	2	4,9	1,60	4,28

**2.13.23 - *Protomyctophum andriashevi* Becker, 1963**



Figure 57a. Exemplary image of *Protomyctophum andriashevi*.

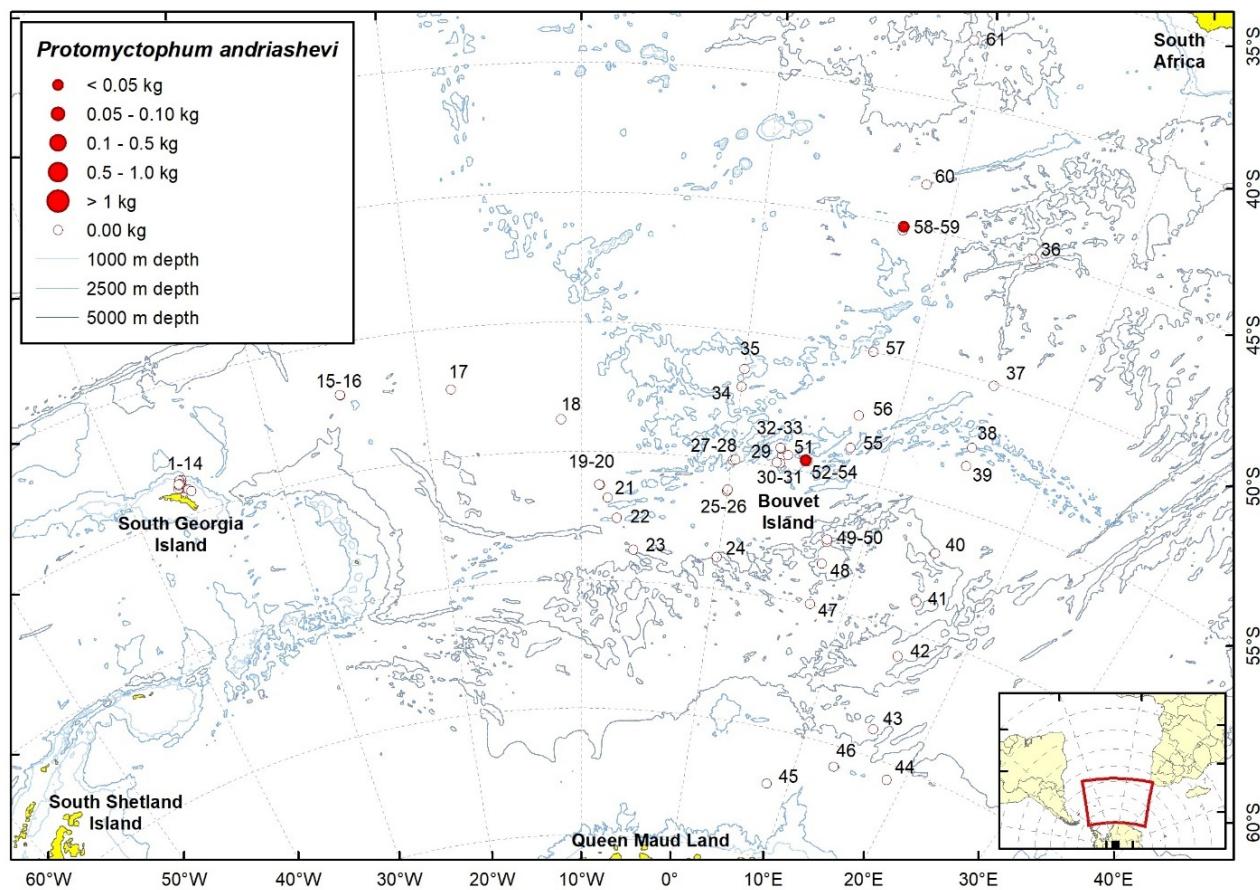


Figure 57b. Trawl stations with presence of *Protomyctophum andriashevi* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 42. Station information with presence of *Protomyctophum andriashevi*.

Station	Date	Latitude		Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
53	12.03.2008	54,57	S	4,83	E	1	1,1	0,07	4,33
59	17.03.2008	45,06	S	7,67	E	4	4,3	1,02	5,63

2.13.24 - *Protomyctophum bolini* (Fraser-Brunner, 1949)



Figure 58a. Exemplary image of *Protomyctophum bolini*.

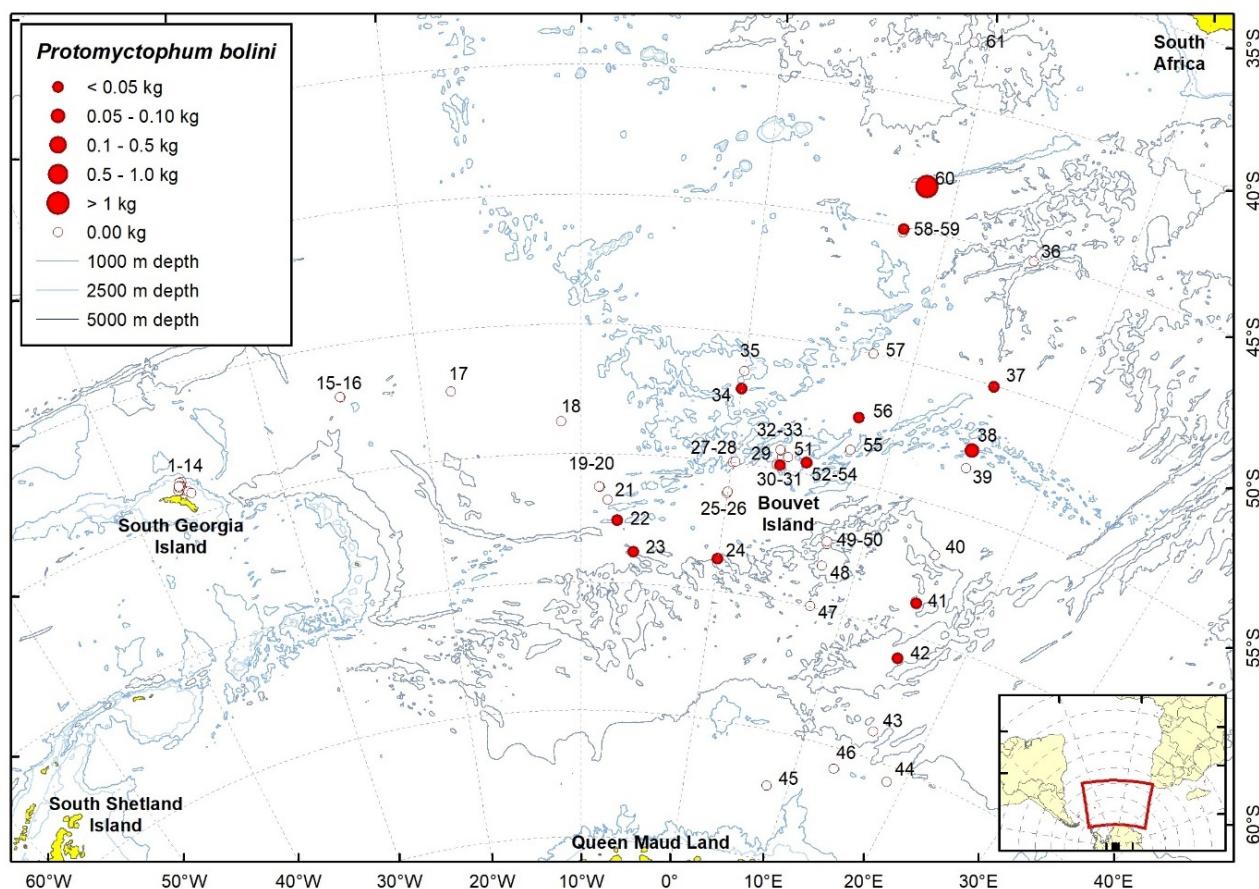


Figure 58b. Trawl stations with presence of *Protomyctophum bolini* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 43. Station information with presence of *Protomyctophum bolini*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
22	30.01.2008	57,57 S	7,47 W	1	0,9	0,67	20,43
23	30.01.2008	58,76 S	6,22 W	10	21,6	4,14	13,02
24	31.01.2008	58,76 S	0,04 W	1	3,0	1,49	29,02
30	03.02.2008	54,85 S	3,20 E	6	35,2	1,44	273,78
34	06.02.2008	52,12 S	0,02 W	16	36,0	4,15	44,70
37	24.02.2008	50,04 S	15,02 E	1	2,4	3,32	14,43
38	25.02.2008	52,60 S	15,01 E	113	52,0	3,66	49,50
41	27.02.2008	58,78 S	14,99 E	6	10,2	0,34	210,17
42	28.02.2008	61,00 S	15,14 E	6	4,0	0,59	50,67
53	12.03.2008	54,58 S	4,91 E	7	7,3	0,07	4,33
56	14.03.2008	52,49 S	7,54 E	9	7,0	0,44	188,87
59	17.03.2008	45,11 S	7,66 E	3	12,7	1,02	5,63
60	18.03.2008	43,29 S	8,40 E	1121	110142,5	110,70	332,36

### Protomyctophum bolini

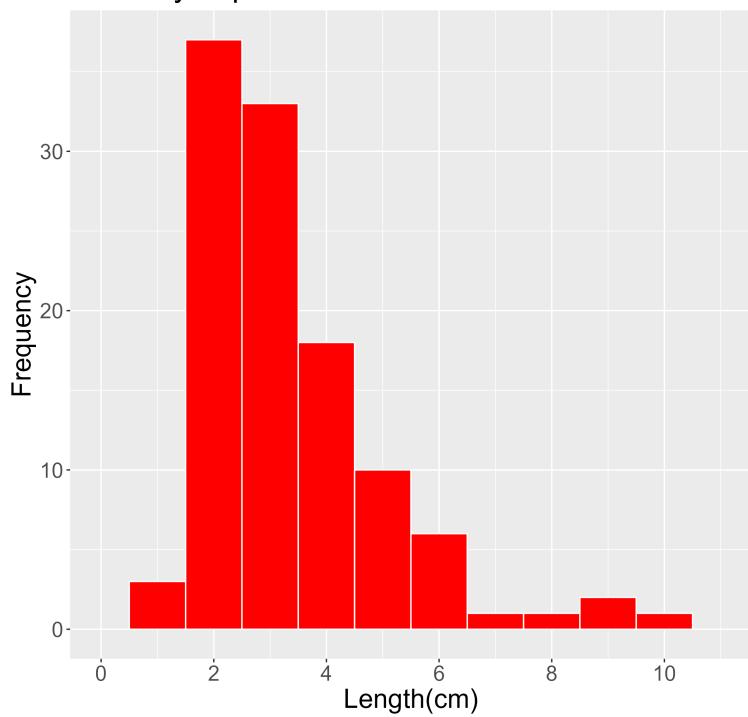


Figure 59. Length frequency of *Protomyctophum bolini* for all trawl stations combined. Frequency shown as number of individuals.

2.13.25 - *Protomyctophum choriodon* Hulley, 1981



Figure 60a. Exemplary image of *Protomyctophum choriodon*.

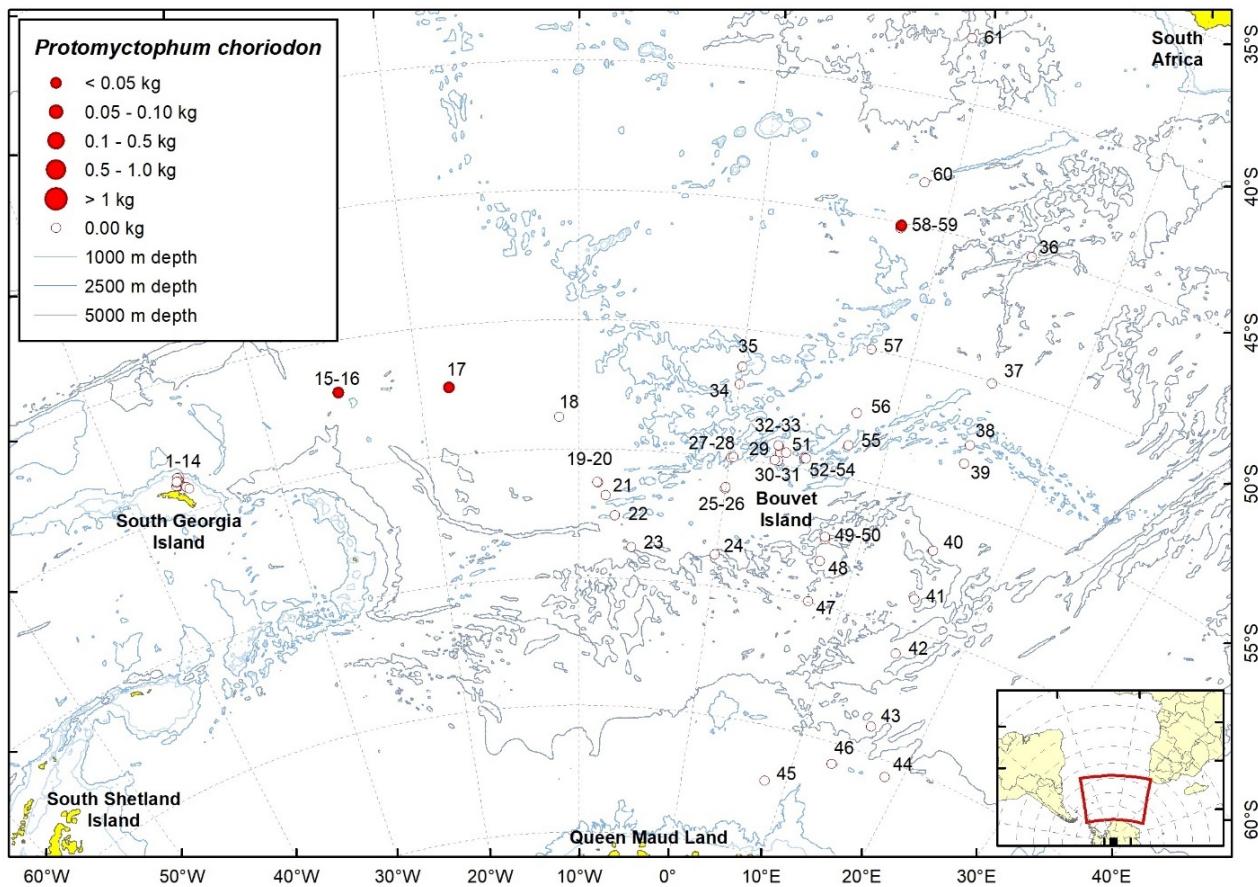


Figure 60b. Trawl stations with presence of *Protomyctophum choriodon* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 44. Station information with presence of *Protomyctophum choriodon*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	24.01.2008	51,99 S	25,00 W	20	22,5	3,23	45,05
17	26.01.2008	52,37 S	18,14 W	1	3,4	1,20	26,43
59	17.03.2008	45,11 S	7,66 E	2	9,0	1,02	5,63

### Protomyctophum choriodon

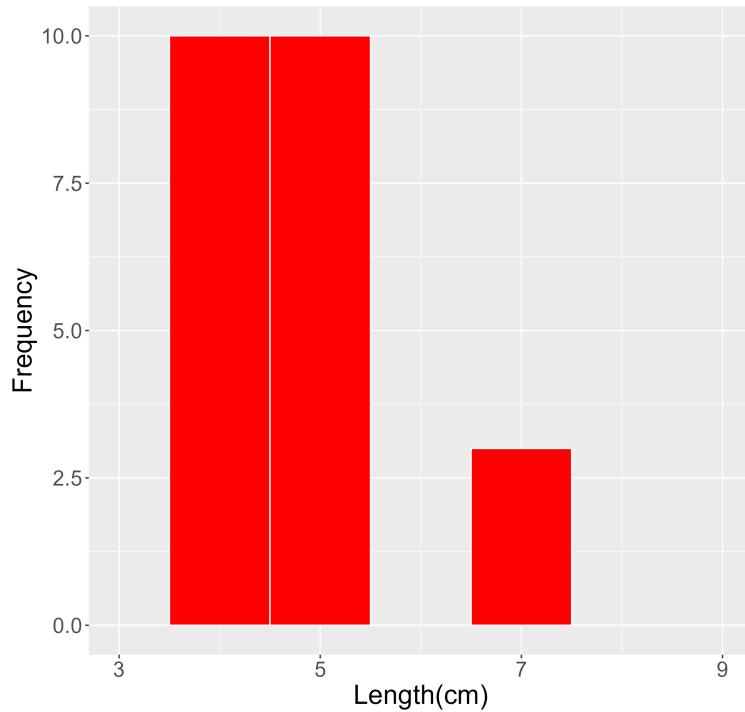


Figure 61. Length frequency of *Protomyctophum choriodon* for all trawl stations combined. Frequency shown as number of individuals.

2.13.26 - *Protomyctophum gemmatum* Hulley, 1981



Figure 62a. Exemplary image of *Protomyctophum gemmatum*.

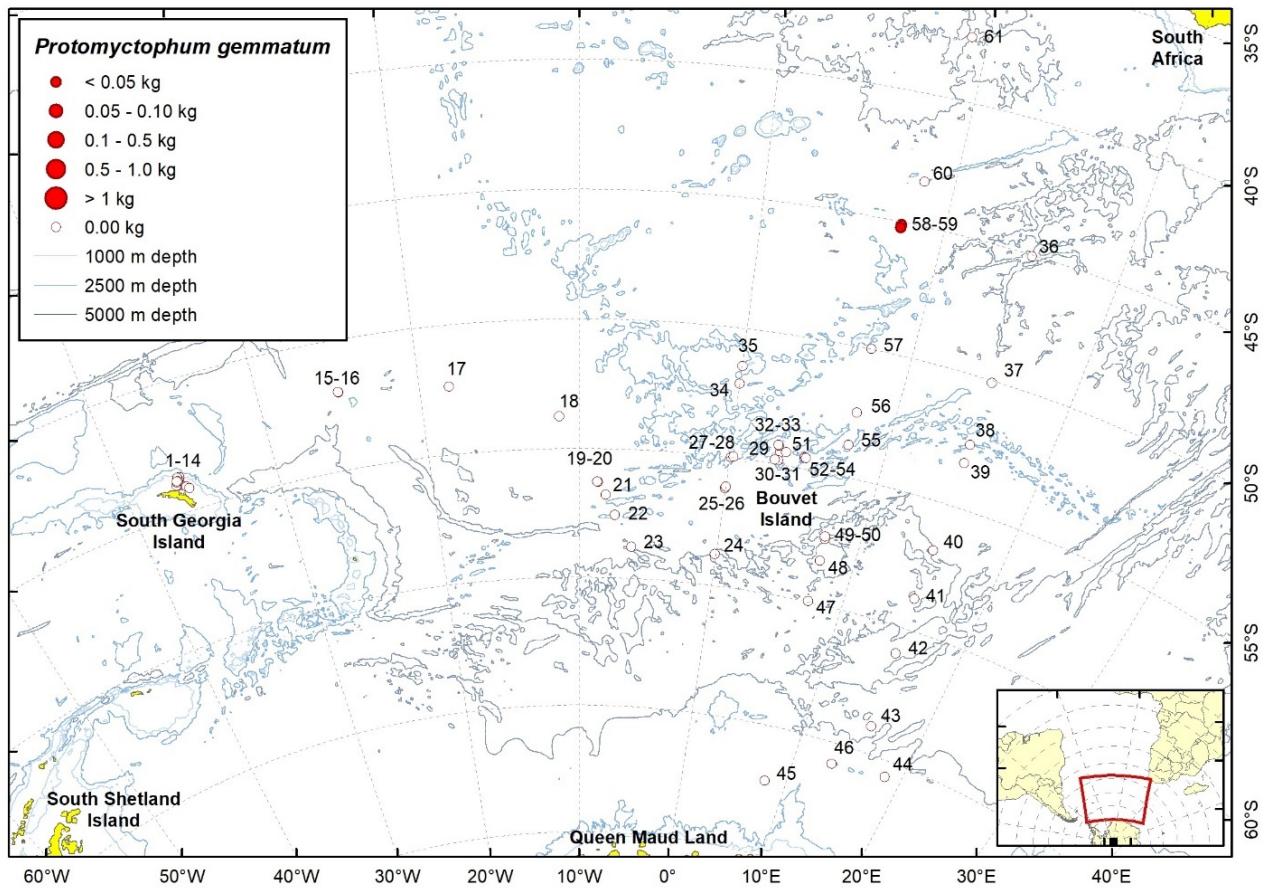


Figure 62b. Trawl stations with presence of *Protomyctophum gemmatum* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 45. Station information with presence of *Protomyctophum gemmatum*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65	E	4	13,0	10,17	19,92
59	17.03.2008	45,11 S	7,66	E	4	24,0	1,02	5,63

2.13.27 - *Protomyctophum normani* (Tåning, 1932)



Figure 63a. Exemplary image of *Protomyctophum normani*.

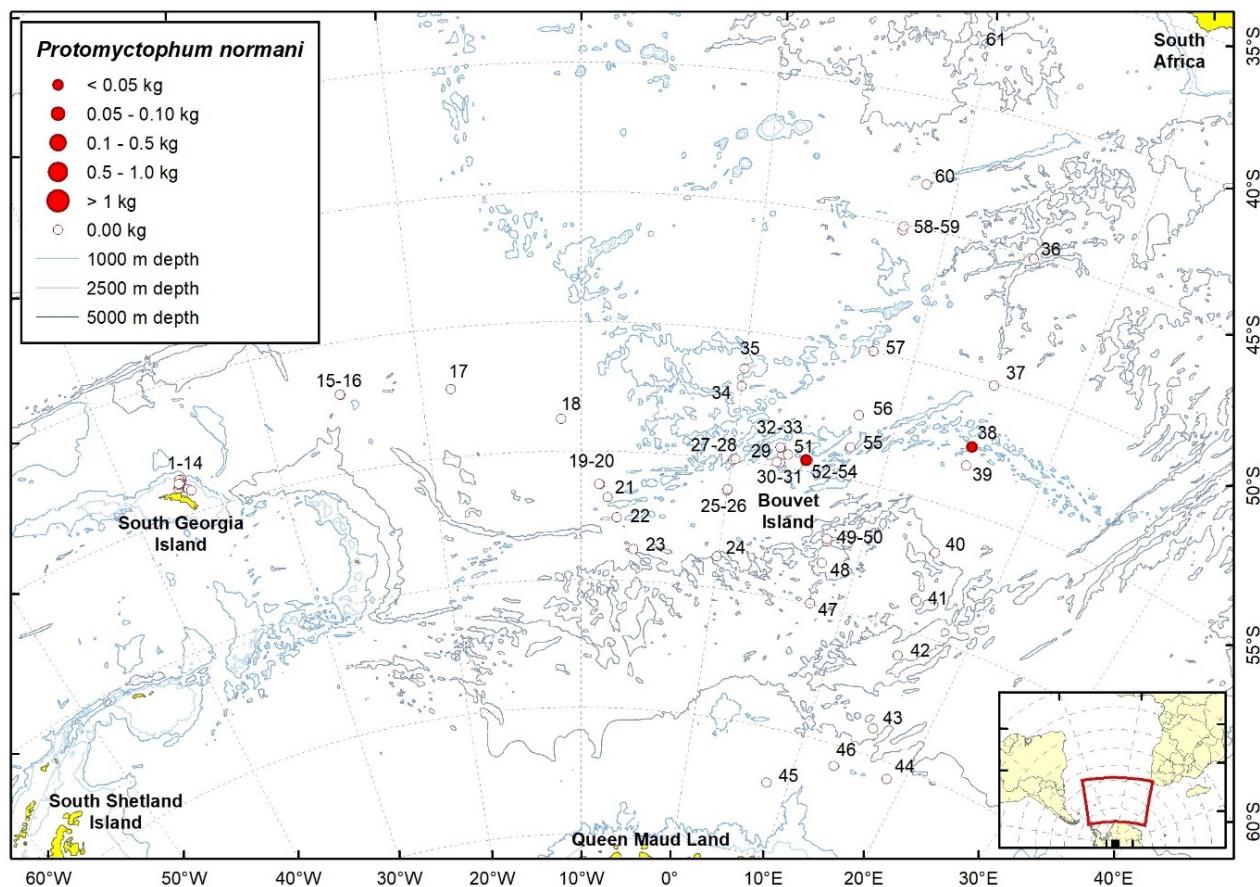


Figure 63b. Trawl stations with presence of *Protomyctophum normani* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 46. Station information with presence of *Protomyctophum normani*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
38	25.02.2008	52,55 S	14,99 E	15	8,8	3,66	49,50
53	12.03.2008	54,57 S	4,83 E	6	4,1	0,07	4,33

### Protomyctophum normani

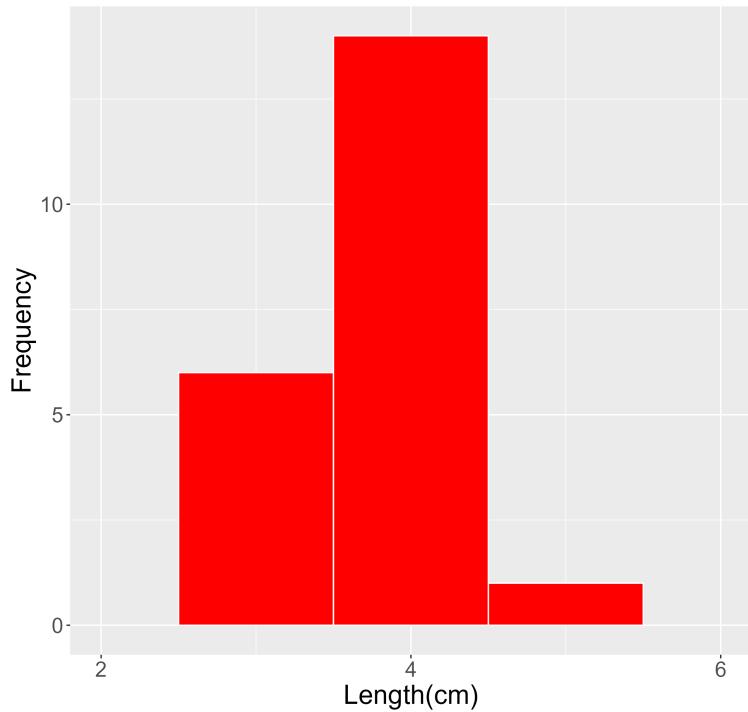


Figure 64. Length frequency of *Protomyctophum normani* for all trawl stations combined. Frequency shown as number of individuals.

2.13.28 - *Protomyctophum parallelum* (Lönnberg, 1905)

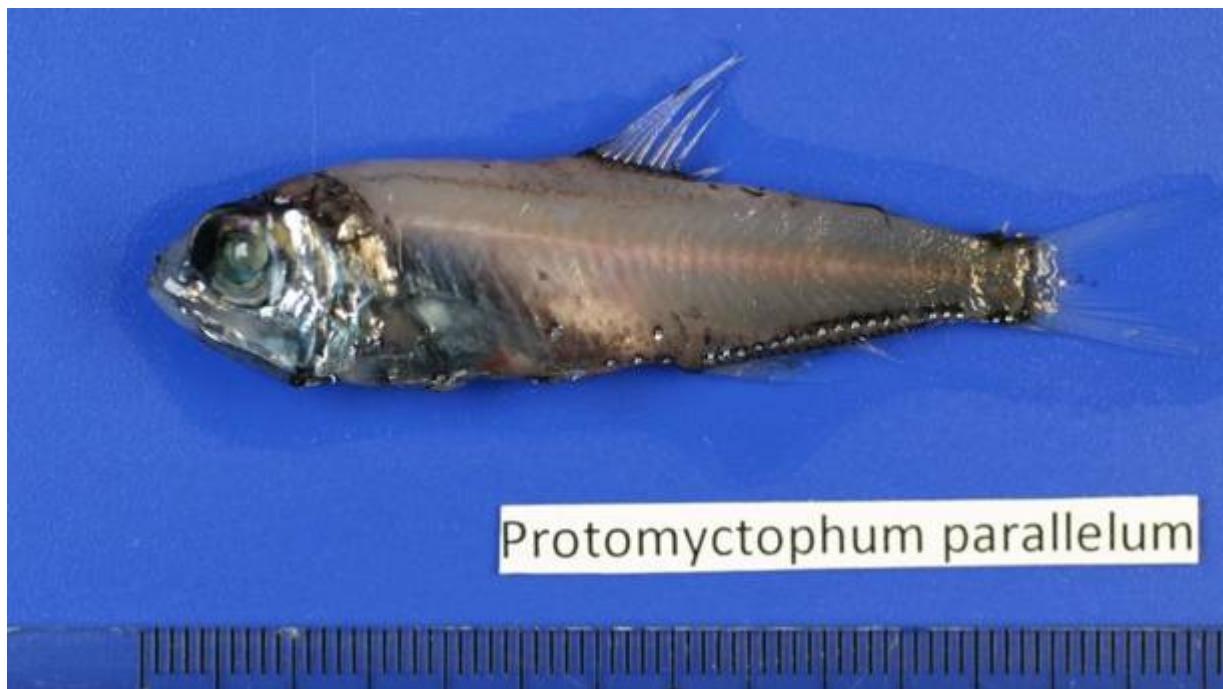


Figure 65a. Exemplary image of *Protomyctophum parallelum*.

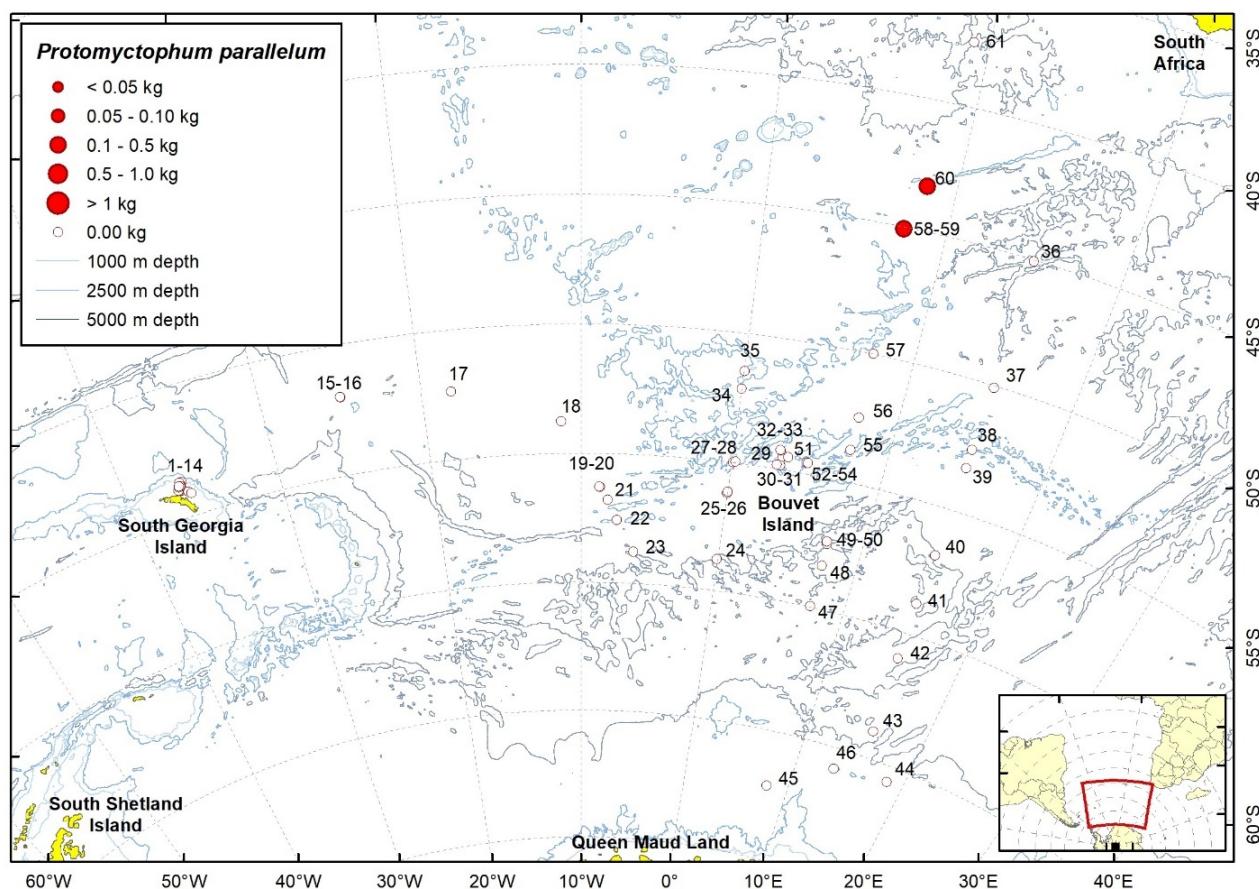


Figure 65b. Trawl stations with presence of *Protomyctophum parallelum* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 47. Station information with presence of *Protomyctophum parallelum*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
59	17.03.2008	45,11 S	7,66 E	183	160,2	1,02	5,63
60	18.03.2008	43,29 S	8,40 E	818	102,3	110,70	332,36

### Protomyctophum parallelum

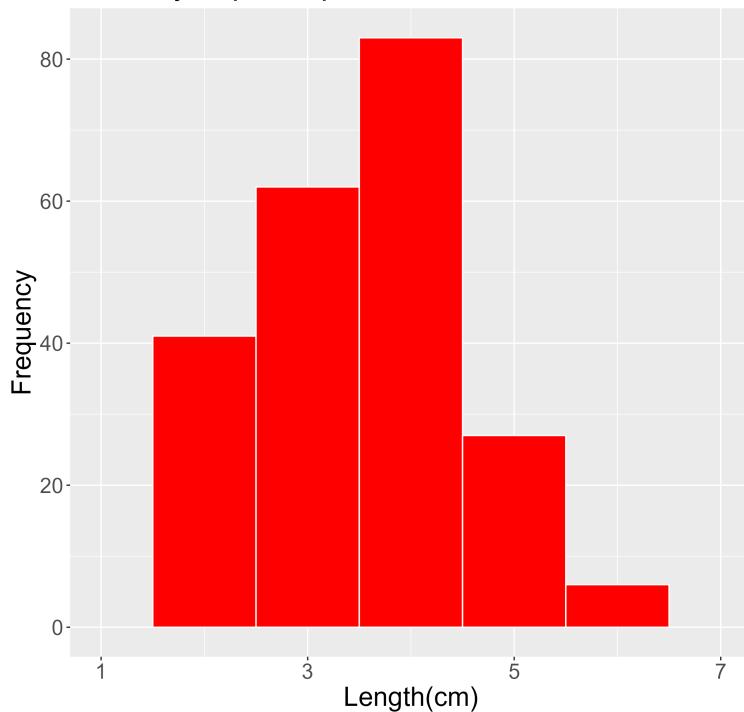


Figure 66. Length frequency of *Protomyctophum parallelum* for all trawl stations combined. Frequency shown as number of individuals.

2.13.29 - *Protomyctophum tenisoni* (Norman, 1930)

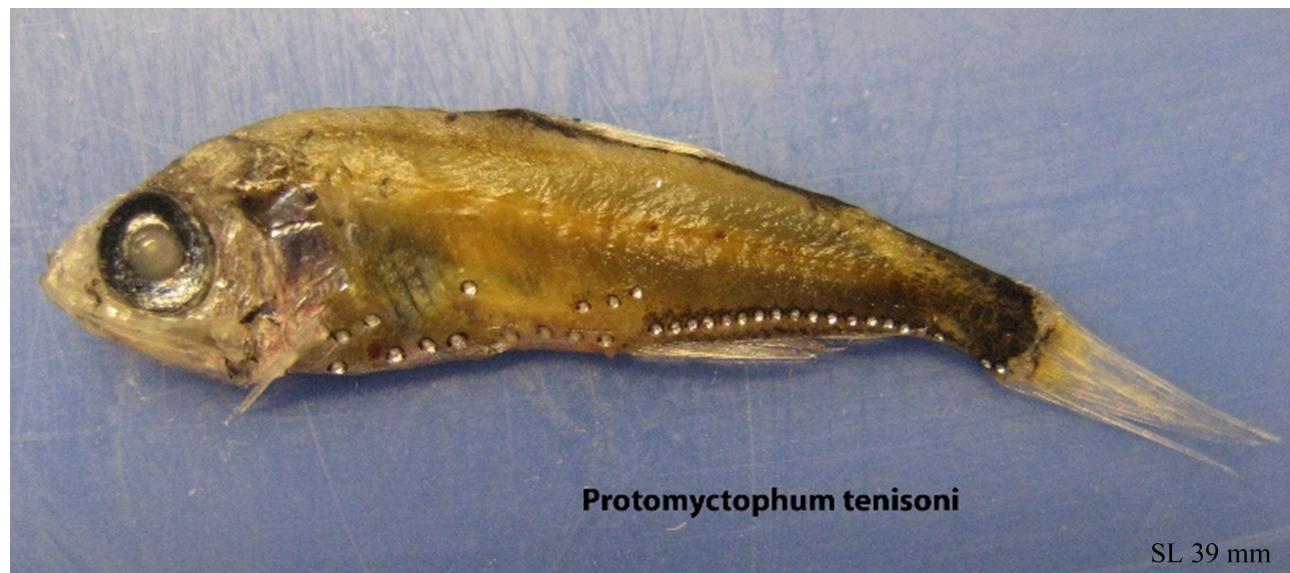


Figure 67a. Exemplary image of *Protomyctophum tenisoni*.

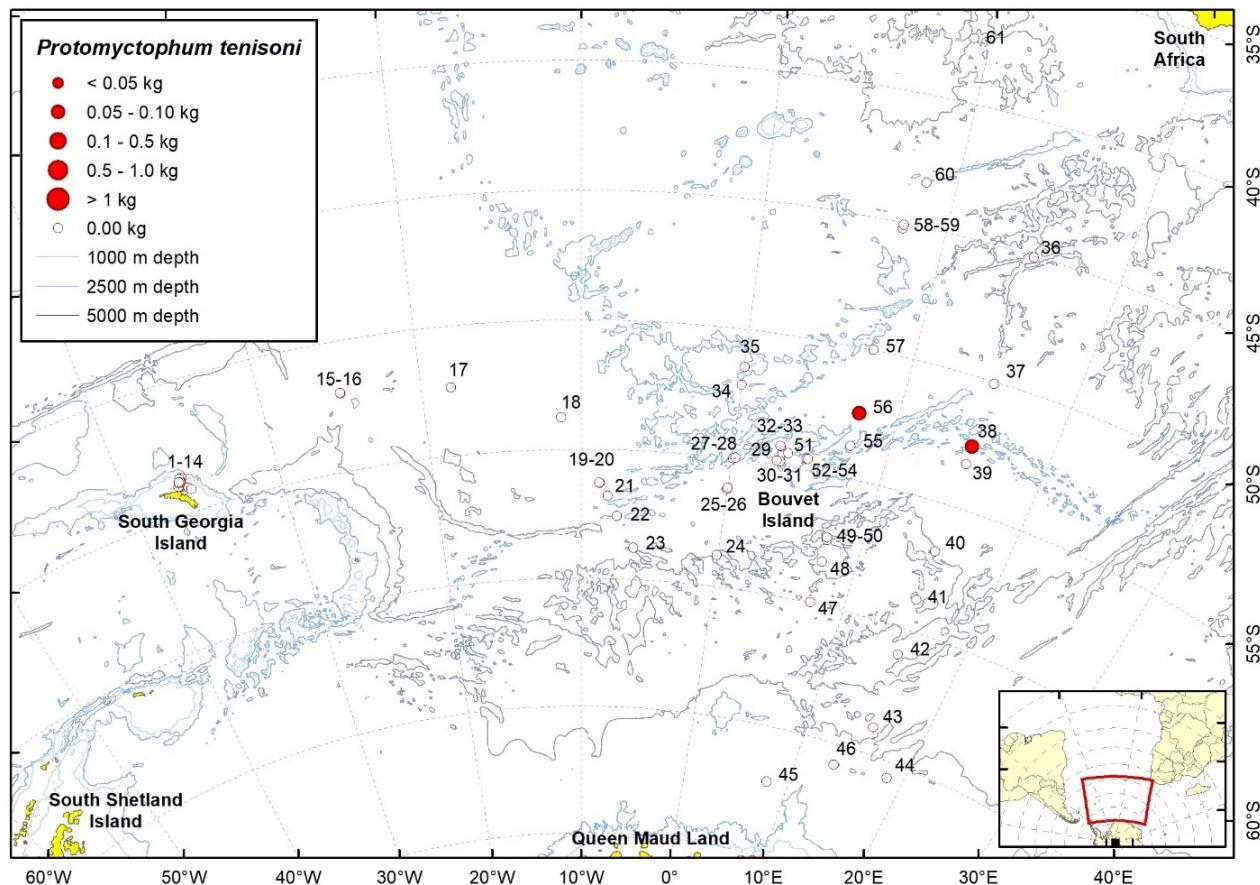


Figure 67b. Trawl stations with presence of *Protomyctophum tenisoni* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 48. Station information with presence of *Protomyctophum tenisoni*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
38	25.02.2008	52,58 S	15,00 E	28	69,9	3,66	49,50
56	14.03.2008	52,45 S	7,56 E	128	84,0	0,44	188,87

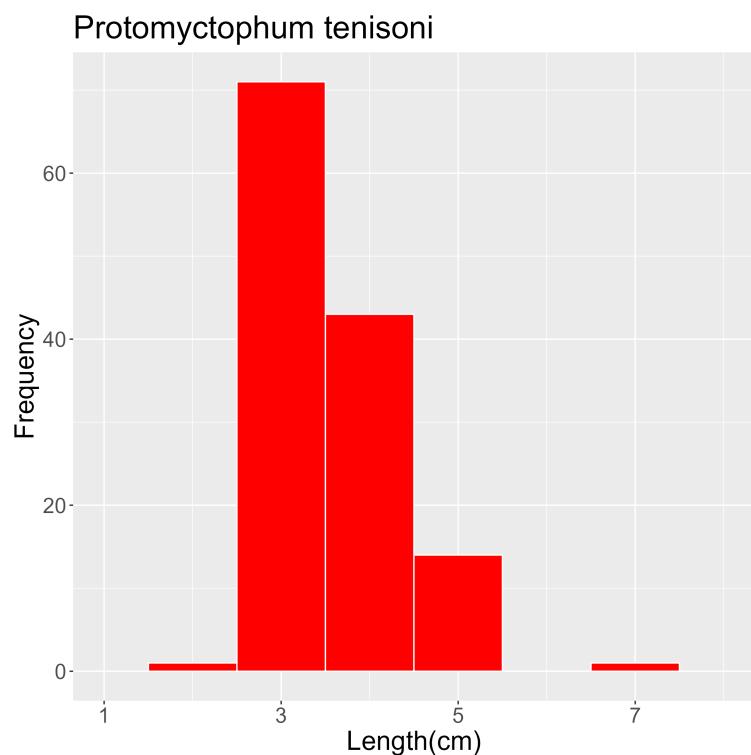


Figure 68. Length frequency of *Protomyctophum tenisoni* for all trawl stations combined. Frequency shown as number of individuals.

2.13.30 - *Symbolophorus boops* (Richardson, 1845)



Figure 69a. Exemplary image of *Symbolophorus boops*.

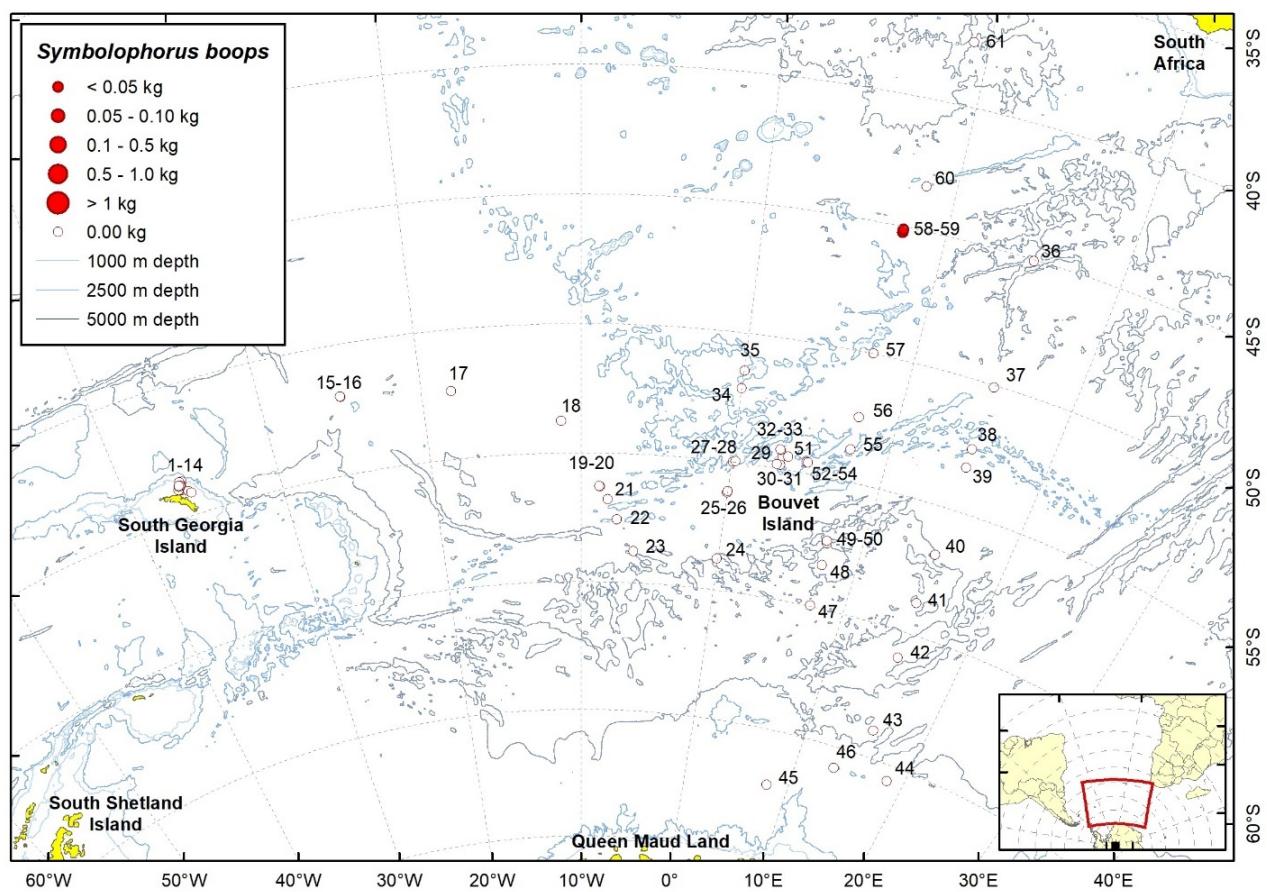


Figure 69b. Trawl stations with presence of *Symbolophorus boops* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 49. Station information with presence of *Symbolophorus boops*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65	E	1	13,0	10,17	19,92
59	17.03.2008	45,11 S	7,66	E	2	8,0	1,02	5,63

## 2.14 - Macrouridae

### 2.14.1 - *Cynomacrurus piriei* Dollo, 1909



Figure 70a. Exemplary image of *Cynomacrurus piriei*.

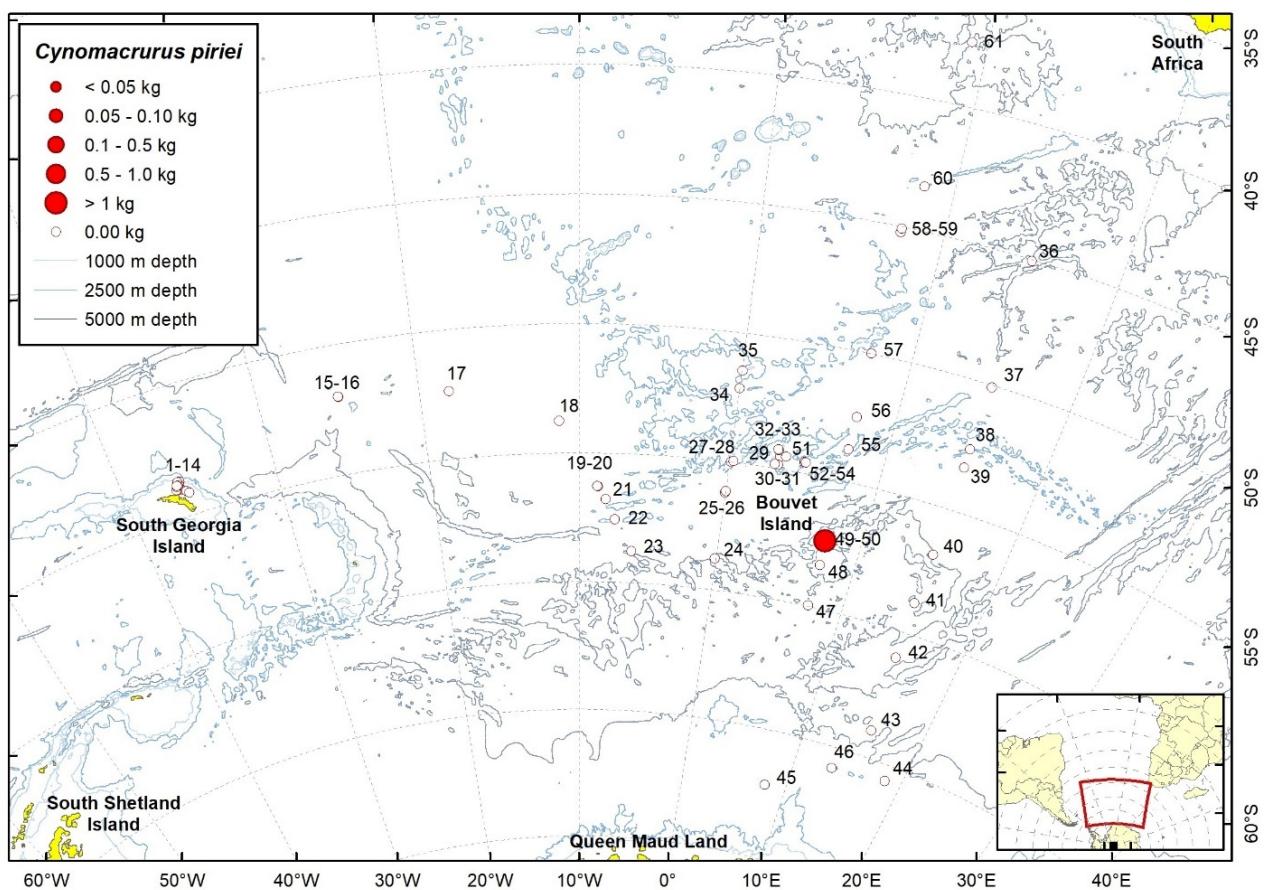


Figure 70b. Trawl stations with presence of *Cynomacrurus piriei* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 49. Station information with presence of *Cynomacrurus piriei*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
50	08.03.2008	57,39 S	7,44 E	10	1200,0	26,34	31,75

## 2.15 - Melanonidae

### 2.15.1 - *Melanonus gracilis* Günther, 1878



Figure 71a. Exemplary image of *Melanonus gracilis*.

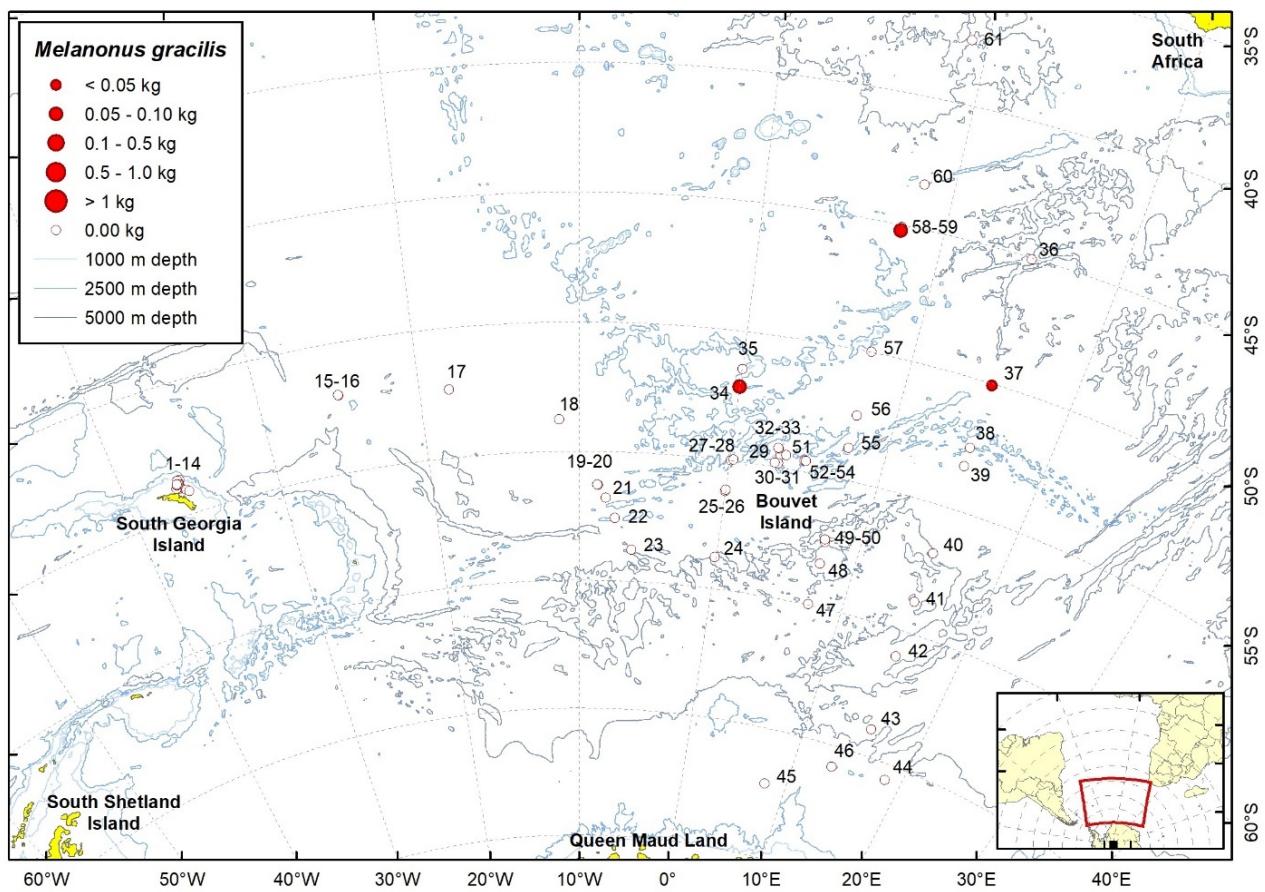


Figure 71b. Trawl stations with presence of *Melanonus gracilis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 50. Station information with presence of *Melanonus gracilis*

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
34	06.02.2008	52,12	S	0,02	W	2	56,1	4,15
37	24.02.2008	50,04	S	15,02	E	2	26,0	3,32
58	17.03.2008	45,20	S	7,65	E	2	59,0	10,17

## 2.16 - Melamphaidae

### 2.16.1 - *Melamphaes eulepis* Ebeling, 1962



Figure 72a. Exemplary image of *Melamphaes eulepis*.

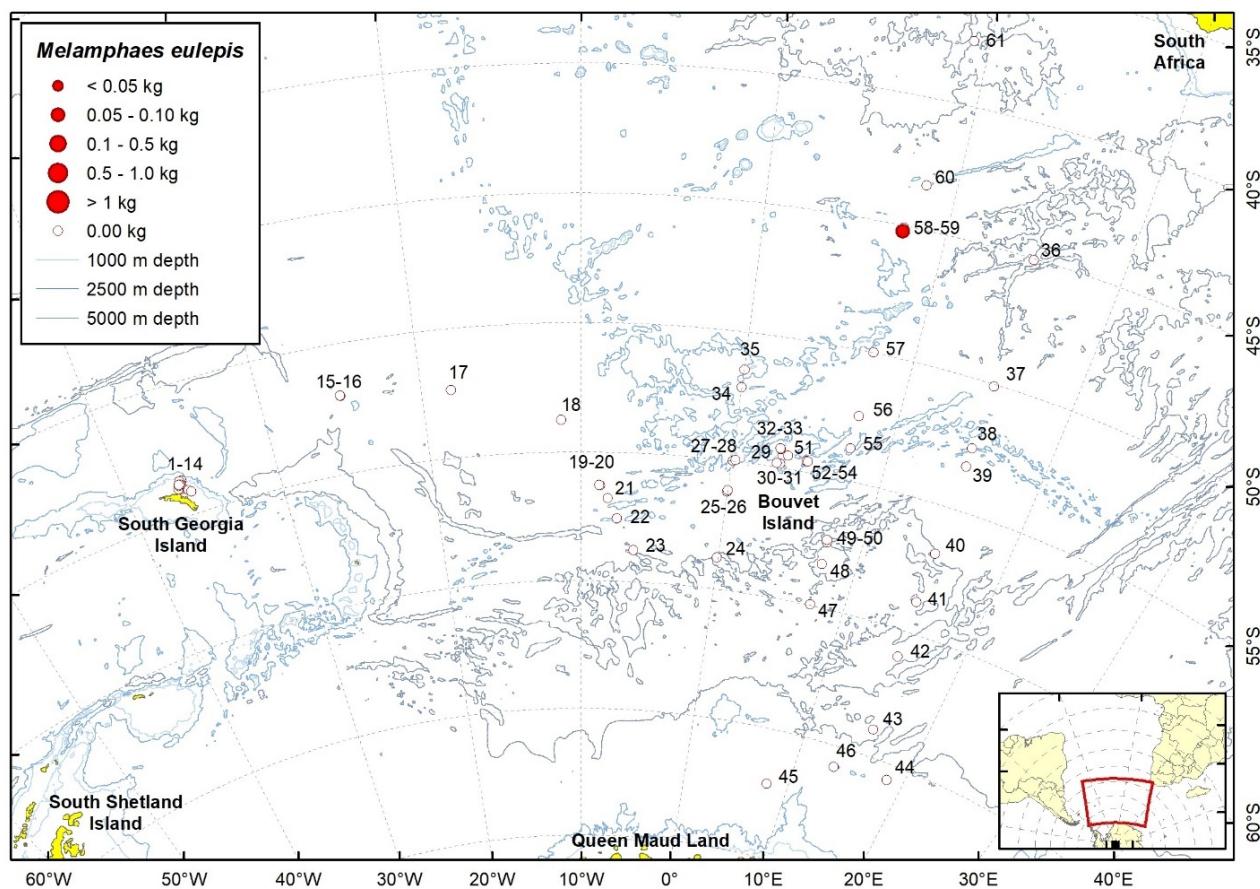


Figure 72b. Trawl stations with presence of *Melamphaes eulepis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 51. Station information with presence of *Melamphaes eulepis*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65	E	3	94,0	10,17	19,92

**2.16.2 - *Melamphaes microps* (Günther, 1878)**



Figure 73a. Exemplary image of *Melamphaes microps*.

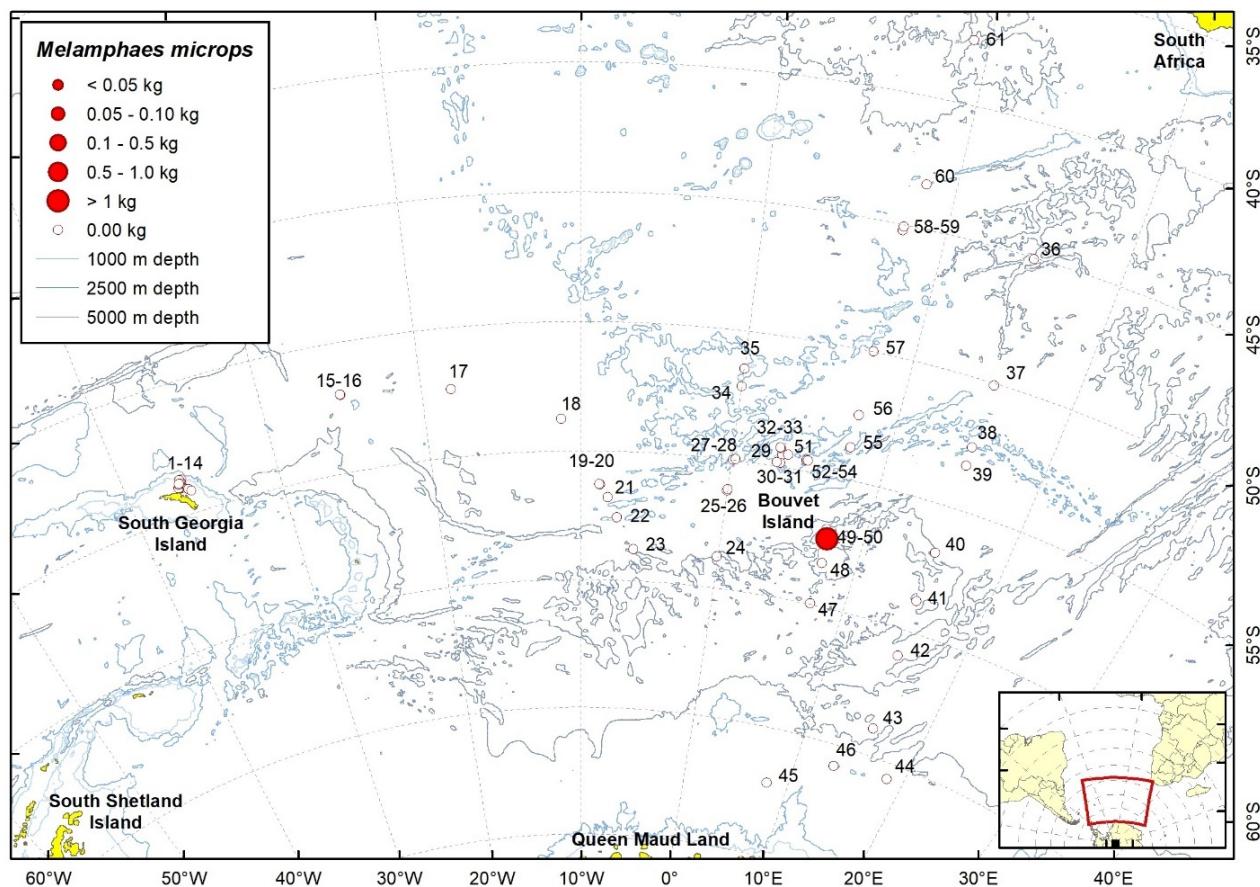


Figure 73b. Trawl stations with presence of *Melamphaes microps* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 52. Station information with presence of *Melamphaes microps*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
50	08.03.2008	57,39 S	7,44 E	54	1328,0	26,34	31,75

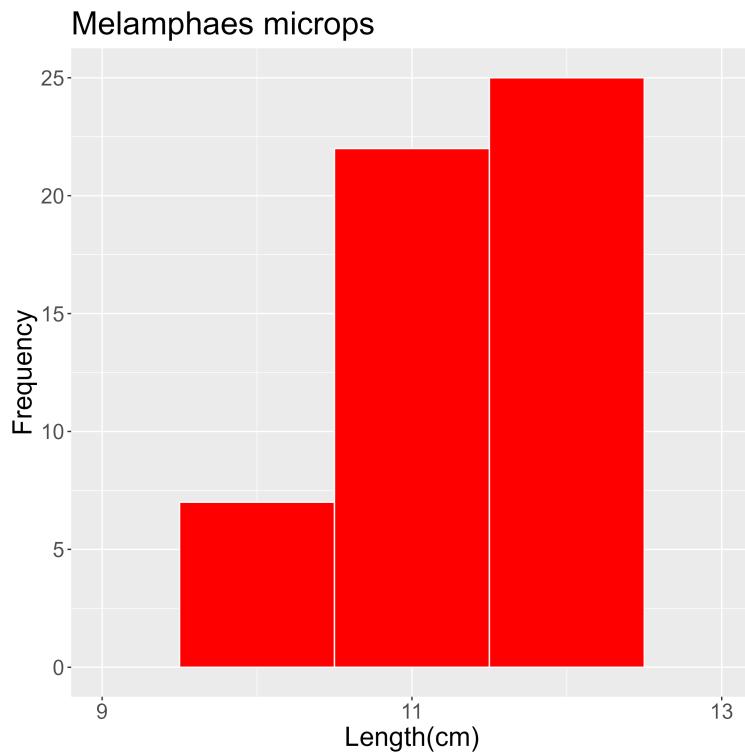


Figure 74. Length frequency of *Melamphaes microps* for all trawl stations combined. Frequency shown as number of individuals.

2.16.3 - *Sio nordenskjoldii* (Lönnberg, 1905)



Figure 75a. Exemplary image of *Sio nordenskjoldii*.

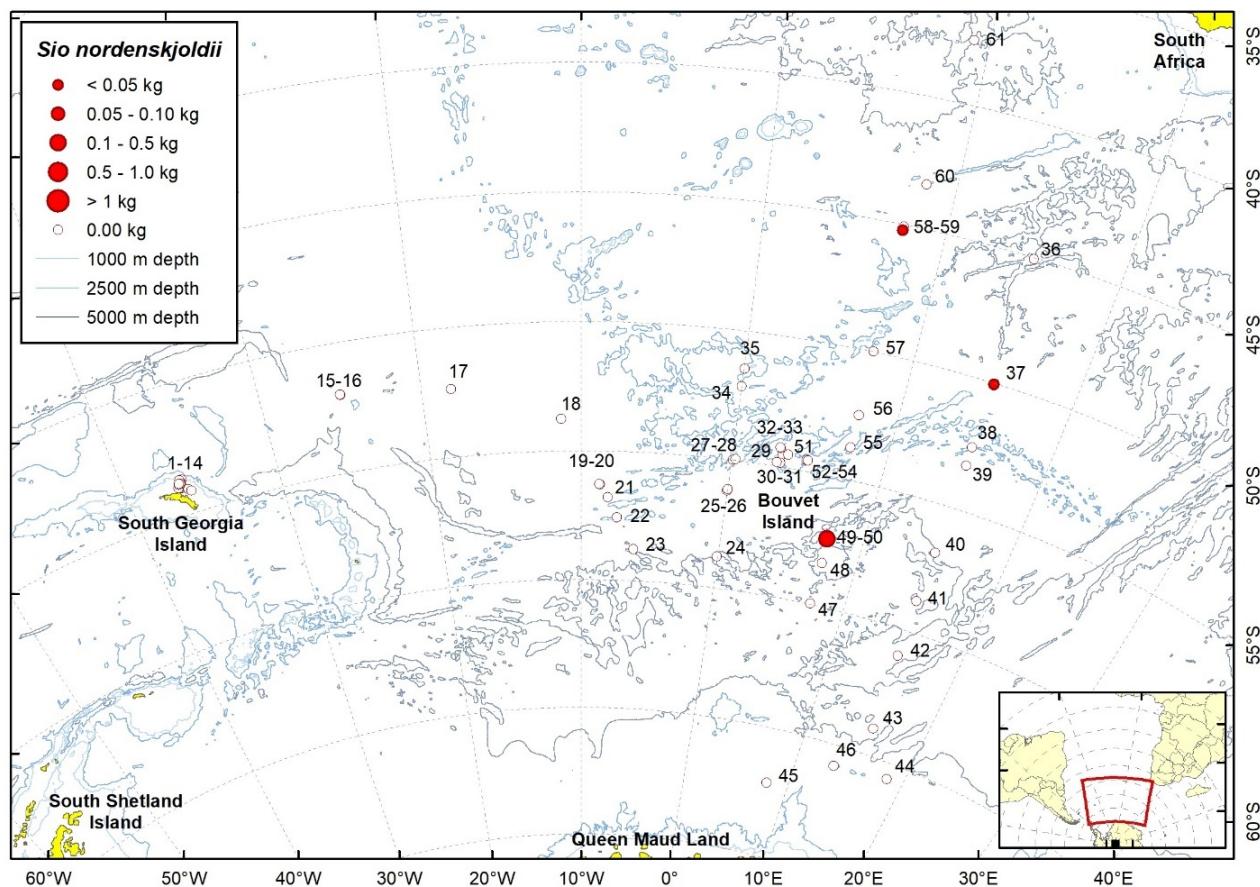


Figure 75b. Trawl stations with presence of *Sio nordenskjoldii* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 53. Station information with presence of *Sio nordenskjoldii*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
37	24.02.2008	50,04 S	15,02 E	2	23,0	3,32	14,43
50	08.03.2008	57,39 S	7,44 E	16	247,0	26,34	31,75
58	17.03.2008	45,20 S	7,65 E	3	24,0	10,17	19,92

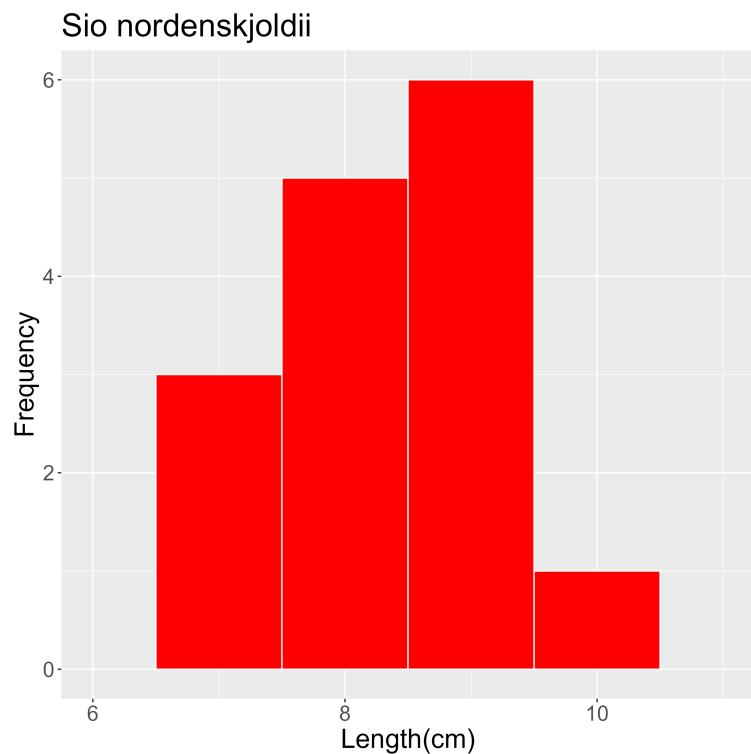


Figure 76. Length frequency of *Sio nordenskjoldii* for all trawl stations combined. Frequency shown as number of individuals.

## 2.17 - Gempylidae

### 2.17.1 - *Paradiplospinus antarcticus* Andriashev, 1960



Figure 77a. Exemplary image of *Paradiplospinus antarcticus*.

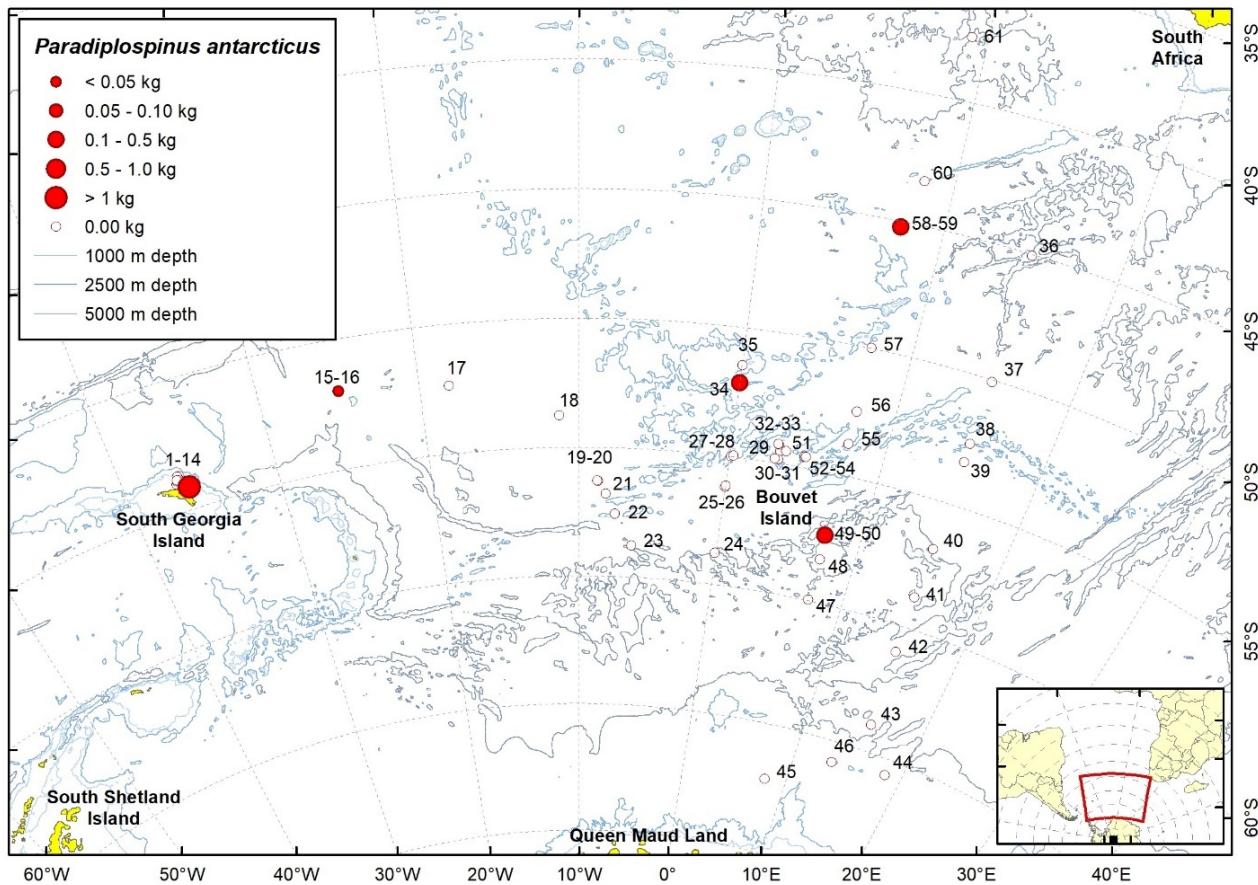


Figure 77b. Trawl stations with presence of *Paradiplospinus antarcticus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 54. Station information with presence of *Paradiplospinus antarcticus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
14	23.01.2008	54,14 S	35,88 W	6	1326,0	311,92	311,92
16	24.01.2008	51,99 S	25,00 W	1	13,6	3,23	45,05

34	06.02.2008	52,12	S	0,02	W		19	250,4		4,15		44,70
50	08.03.2008	57,39	S	7,44	E		2	152,0		26,34		31,75
58	17.03.2008	45,20	S	7,65	E		8	194,0		10,17		19,92

### 2.17.2 - *Paradiplospinus gracilis* (Brauer, 1906)

Remarks: Due to taxonomic confusion both *P. antarcticus* and *P. gracilis* were registered, although only *P. antarcticus* is likely to occur in the area.



Figure 78a. Exemplary image of *Paradiplospinus gracilis*.

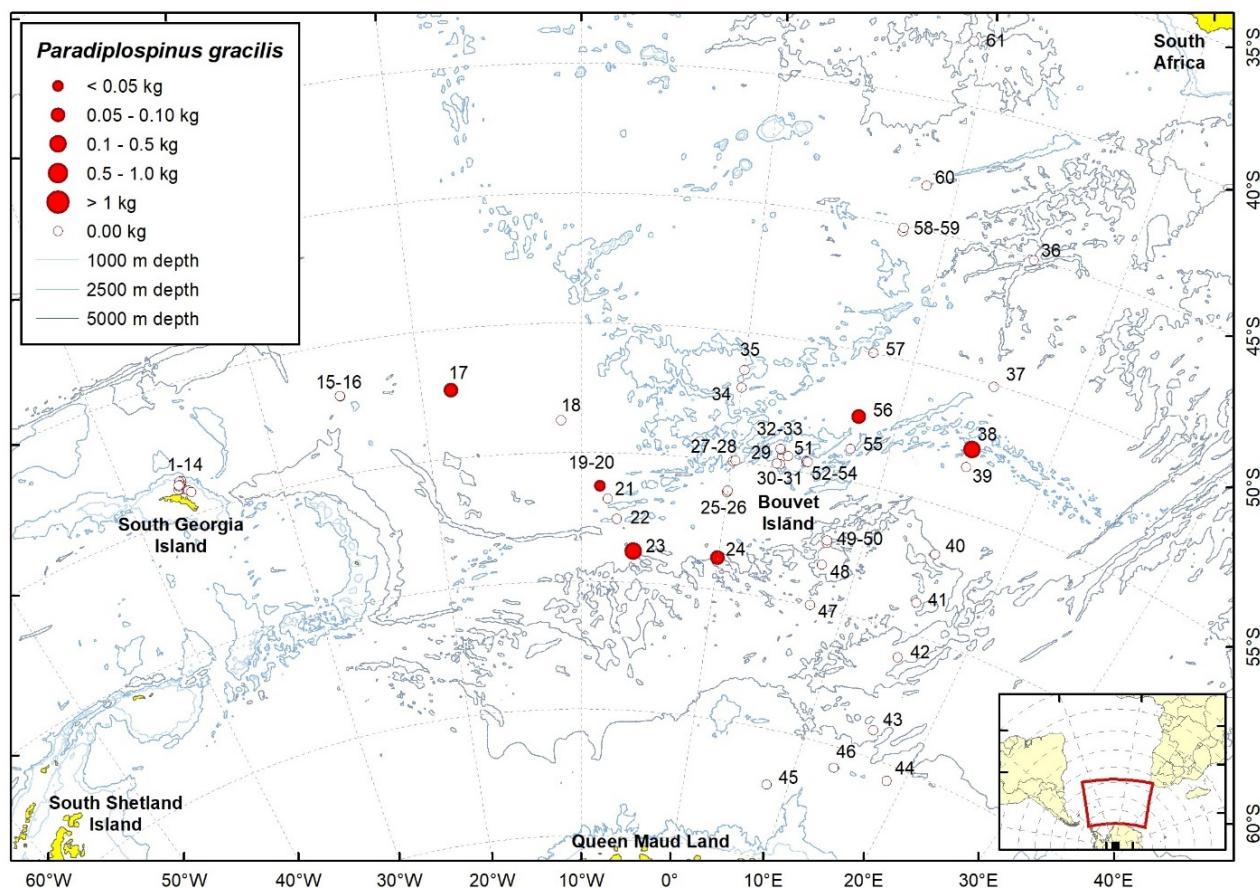


Figure 78b. Trawl stations with presence of *Paradiplospinus gracilis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 54. Station information with presence of *Paradiplospinus gracilis*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
17	26.01.2008	52,33 S	18,16 W	5	67,1	1,20	26,43

19	29.01.2008	56,28	S	8,71	W		1	10,8	0,16	49,45
23	30.01.2008	58,77	S	6,20	W		1	113,0	4,14	13,02
24	31.01.2008	58,76	S	0,04	W		1	83,8	1,49	29,02
38	25.02.2008	52,60	S	15,01	E		5	122,0	3,66	49,50
56	14.03.2008	52,45	S	7,56	E		3	53,0	0,44	188,87

## 2.18 - Centrolophidae

### 2.18.1 - *Icichthys australis* (Haedrich, 1966)

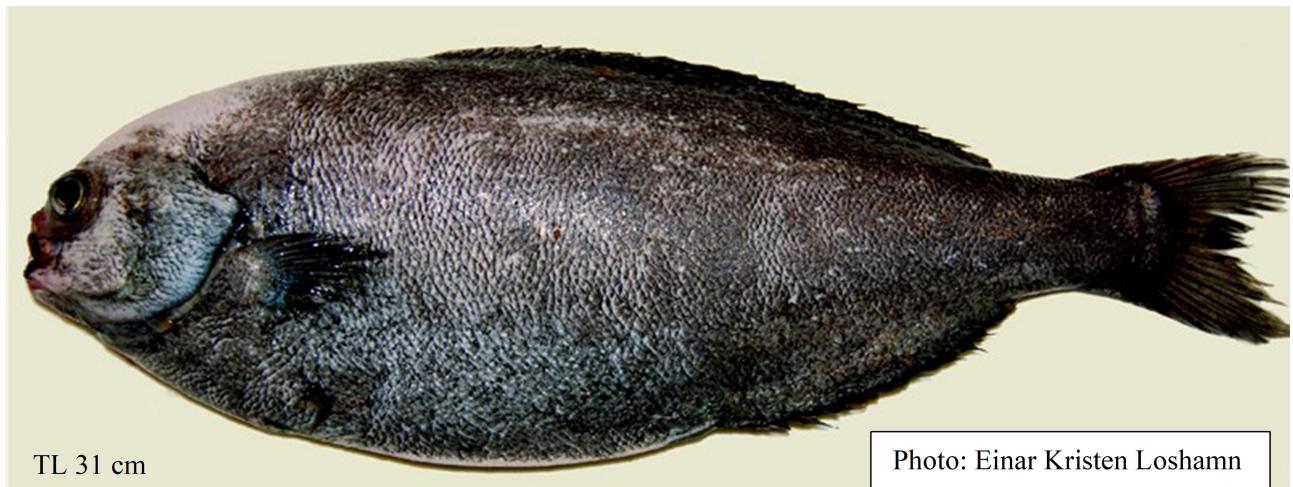


Figure 79a. Exemplary image of *Pseudoicichthys australis*.

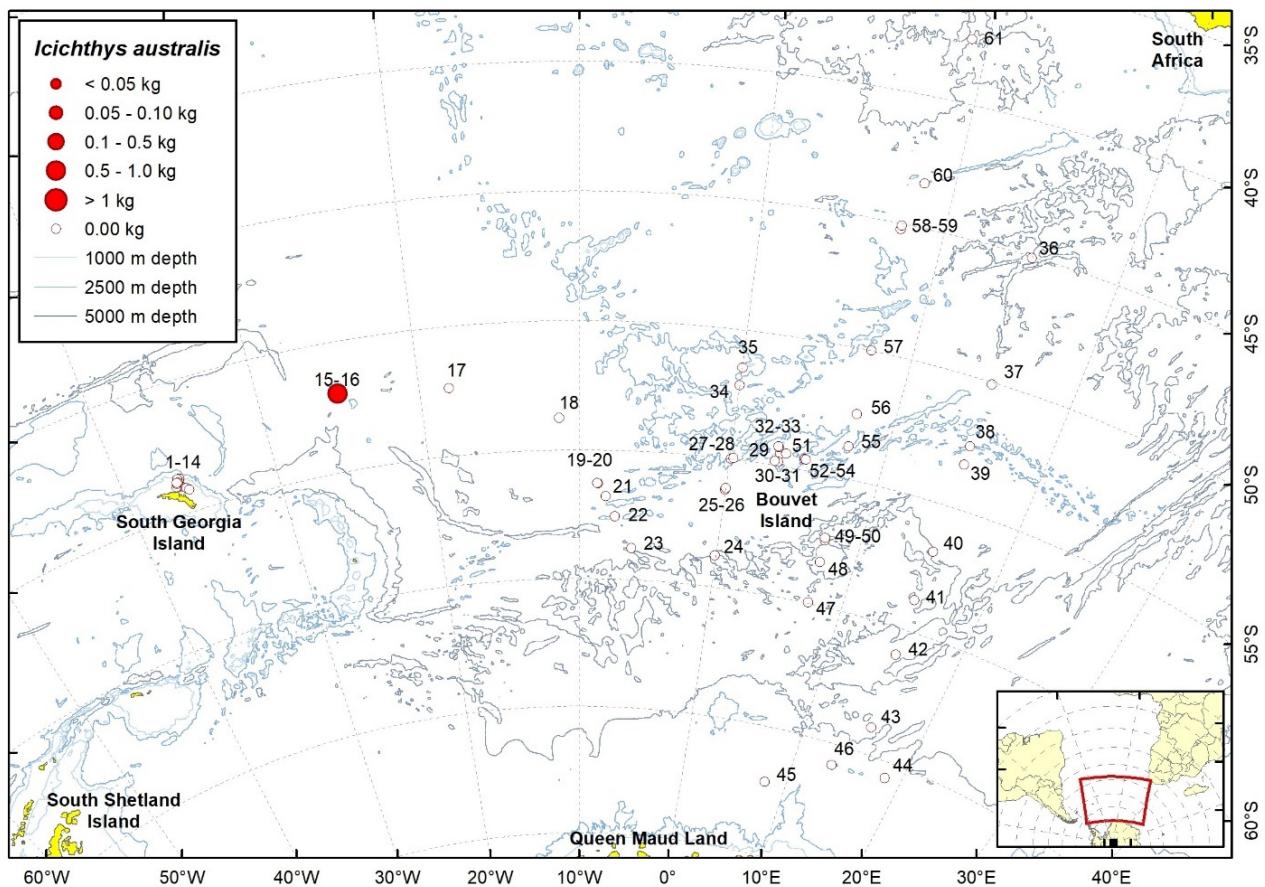


Figure 79b. Trawl stations with presence of *Pseudoicichthys australis* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 50. Station information with presence of *Pseudoicichthys australis*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
16	25.01.2008	51,98 S	25,06 W	1	540,0	3,23	45,05

## 2.19 - Oneirodidae

### 2.19.1 - *Oneirodes notius* Pietsch, 1974

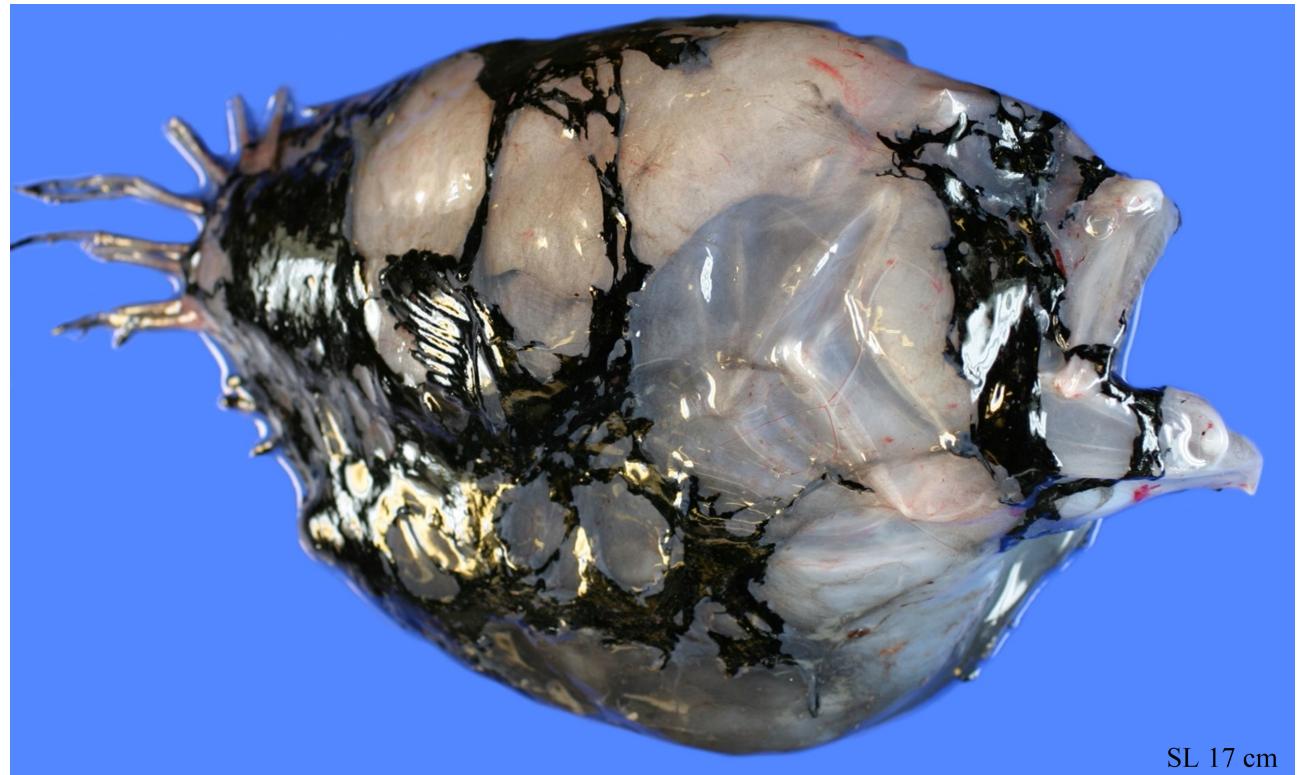


Figure 80a. Exemplary image of *Oneirodes notius*.

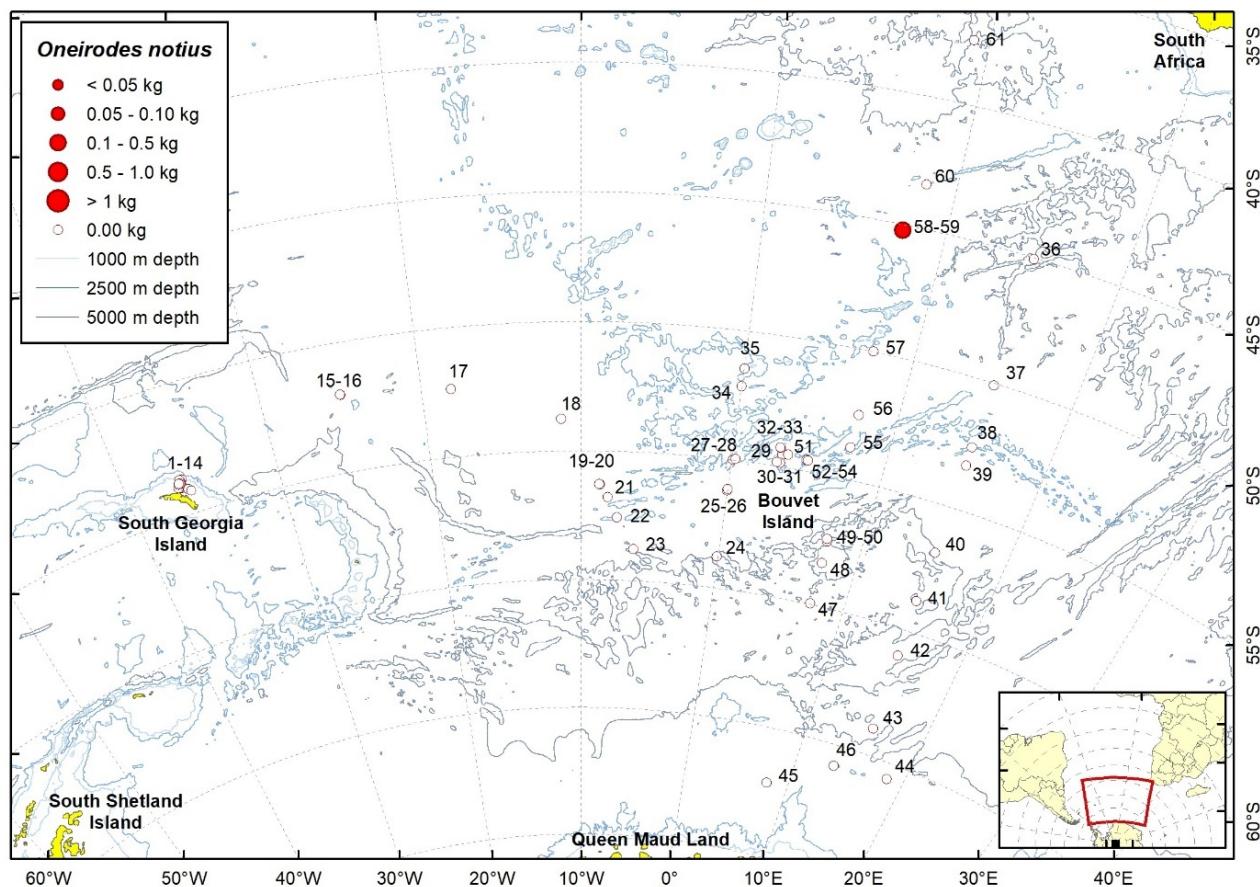


Figure 80b. Trawl stations with presence of *Oneirodes notius* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 56. Station information with presence of *Oneirodes notius*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	1	340,0	10,17	19,92

## 2.20 - Gigantactinidae

### 2.20.1 - *Gigantactis meadi* Bertelsen, Pietsch & Lavenberg, 1981



Figure 81a. Exemplary image of *Gigantactis meadi*.

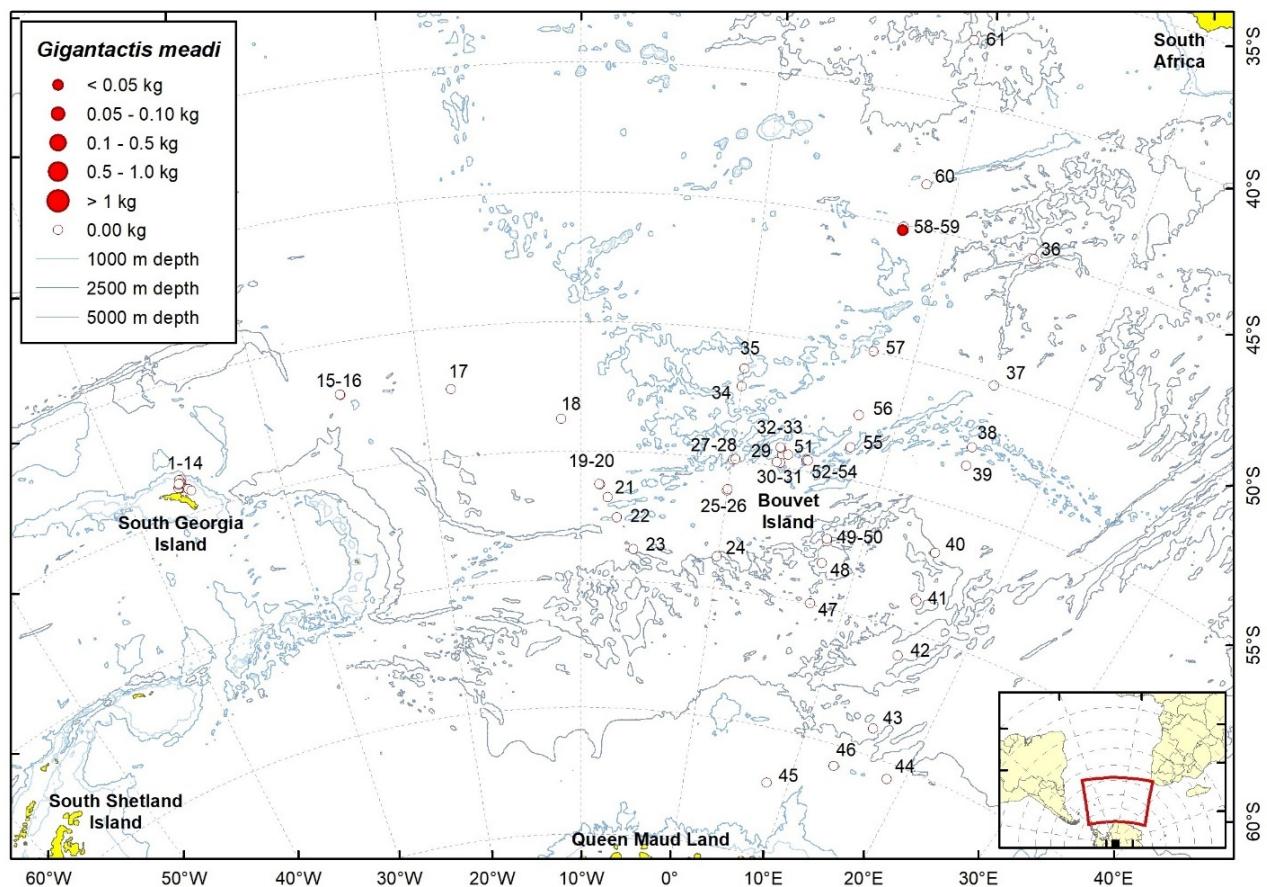


Figure 81b. Trawl stations with presence of *Gigantactis meadi* in the catch (red circles) and trawl stations with no identified presence (empty circles).



Table 57. Station information with presence of *Gigantactis meadi*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	1	9,0	10,17	19,92

## 2.21 - Epigonidae

### 2.21.1 - *Rosenblattia robusta* Mead & De Falla, 1965



Figure 82a. Exemplary image of *Rosenblattia robusta*.

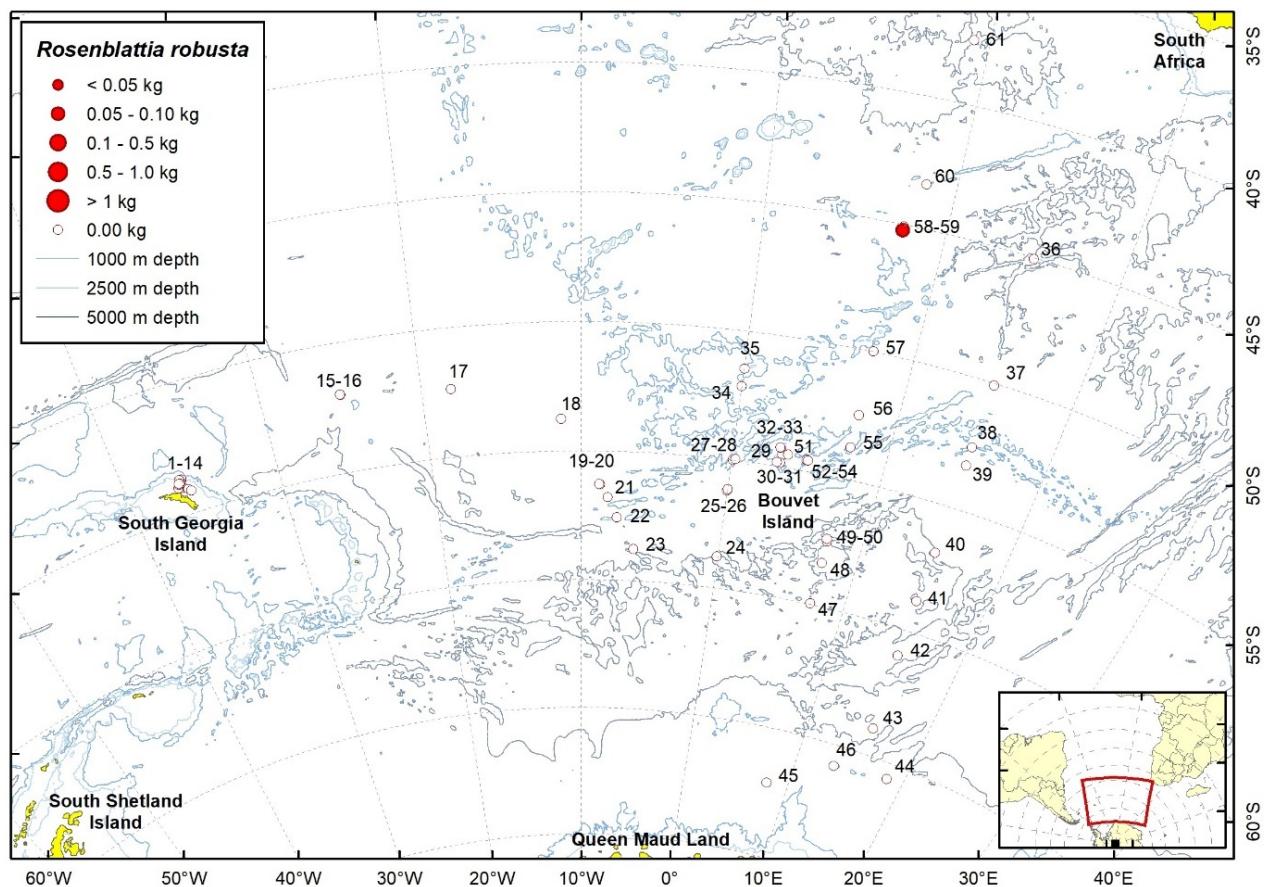


Figure 82b. Trawl stations with presence of *Rosenblattia robusta* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 58. Station information with presence of *Rosenblattia robusta*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
58	17.03.2008	45,20 S	7,65 E	3	60,0	10,17	19,92

## 2.22 - Nototheniidae

### 2.22.1 - *Lepidonotothen squamifrons* (Günther, 1880)



Figure 83a. Exemplary image of *Lepidonotothen squamifrons*.

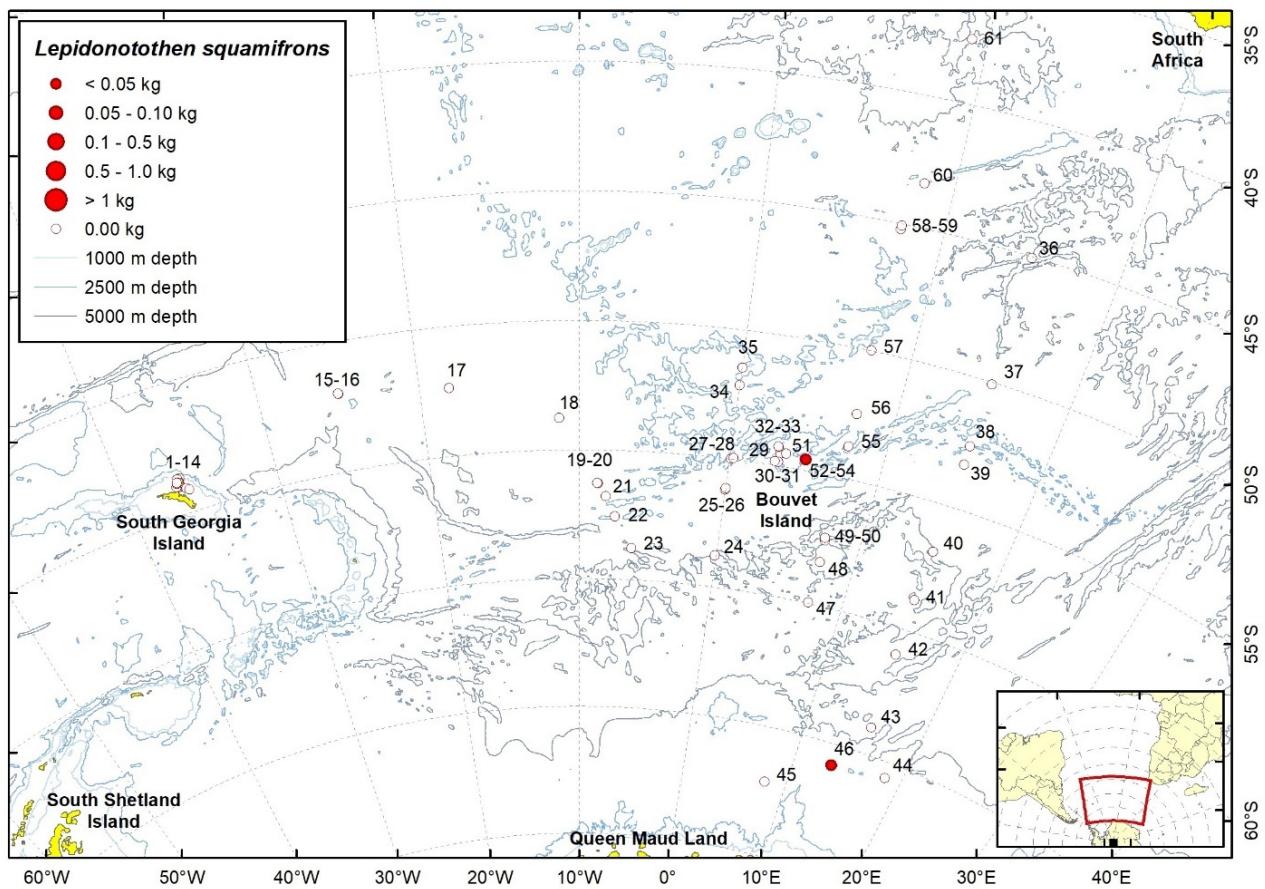


Figure 83b. Trawl stations with presence of *Lepidonotothen squamifrons* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 59. Station information with presence of *Lepidonotothen squamifrons*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

46	05.03.2008	65,81	S	13,45	E	1	0,7	1,59	32,17
54	13.03.2008	54,58	S	4,98	E	1	0,7	0,26	85,64

## 2.22.2 - *Nototheniops larseni* (Lönnberg, 1905)



Figure 84a. Exemplary image of *Nototheniops larseni*.

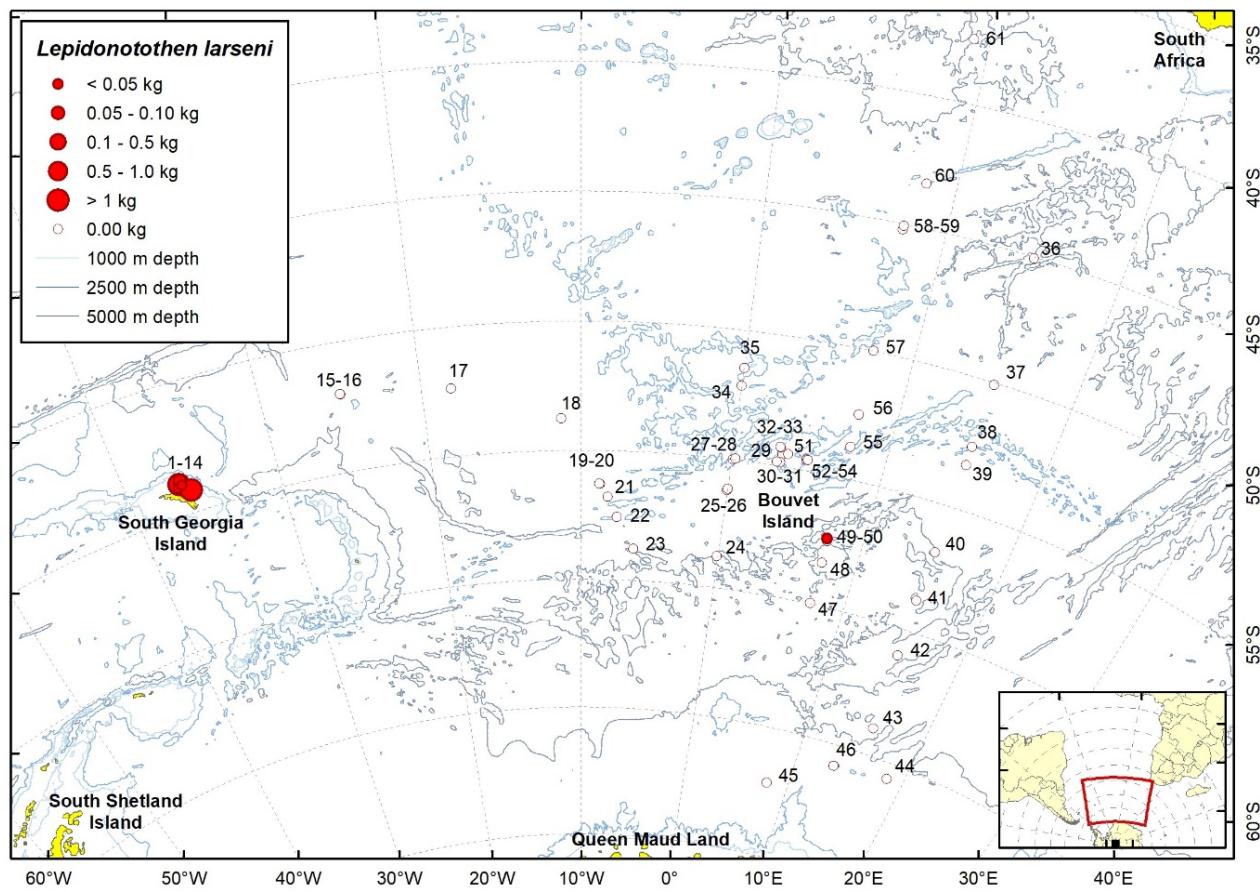


Figure 84b. Trawl stations with presence of *Nototheniops larseni* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 60. Station information with presence of *Nototheniops larseni*.

Station	Date	Latitude		Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
3	19.01.2008	53,87	S	36,37	W	1	0,3	0,01	0,15
5	20.01.2008	53,69	S	36,37	W	175	87,6	0,09	1000,00
8	21.01.2008	53,92	S	36,63	W	71	11,0	0,57	5,56
10	22.01.2008	53,79	S	36,52	W	653	10000,0	42,18	44,88
14	23.01.2008	54,14	S	35,88	W	78	1770,0	311,92	311,92
50	08.03.2008	57,39	S	7,44	E	1	28,0	26,34	31,75

### Nototheniops larseni

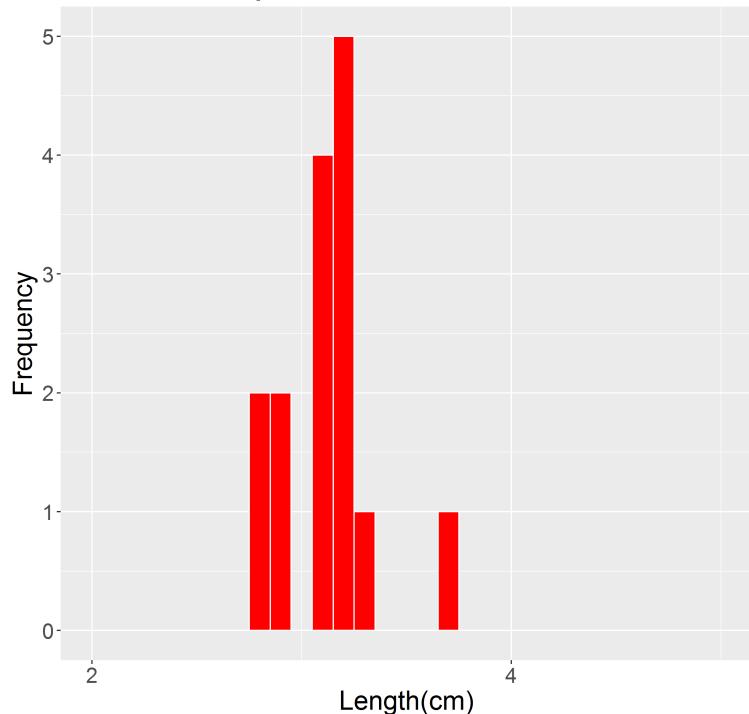


Figure 85. Length frequency of *Nototheniops larseni* for all trawl stations combined. Frequency shown as number of individuals.

2.22.3 - *Trematomus eulepidotus* (Regan, 1914)



Figure 86a. Exemplary image of *Trematomus eulepidotus*.

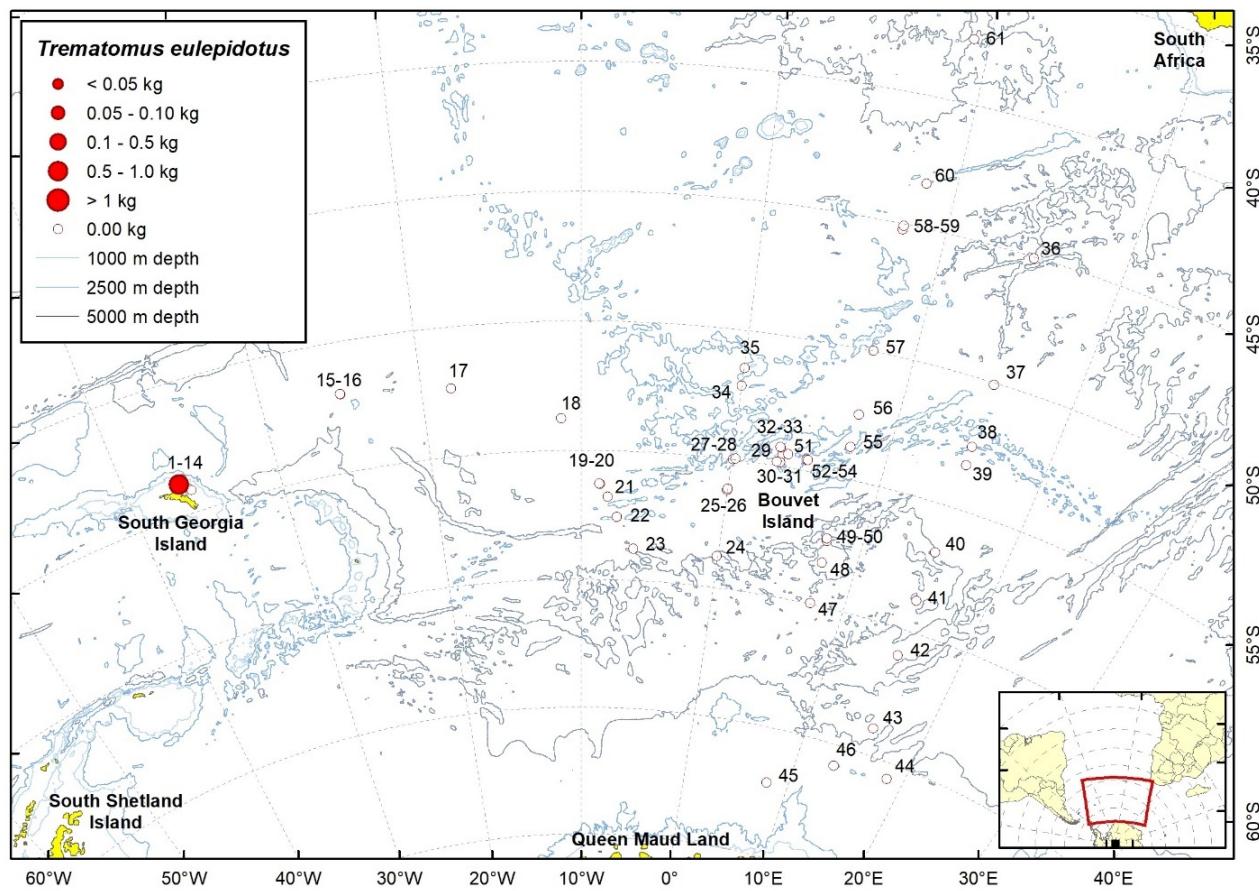


Figure 86b. Trawl stations with presence of *Trematomus eulepidotus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 61. Station information with presence of *Trematomus eulepidotus*.

Station	Date	Latitude	Longitude		Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
10	22.01.2008	53,79 S	36,52	W	4	741,0	42,18	44,88

## 2.23 - Bathyraconidae



Figure 87a. Exemplary image of Bathyraconidae.

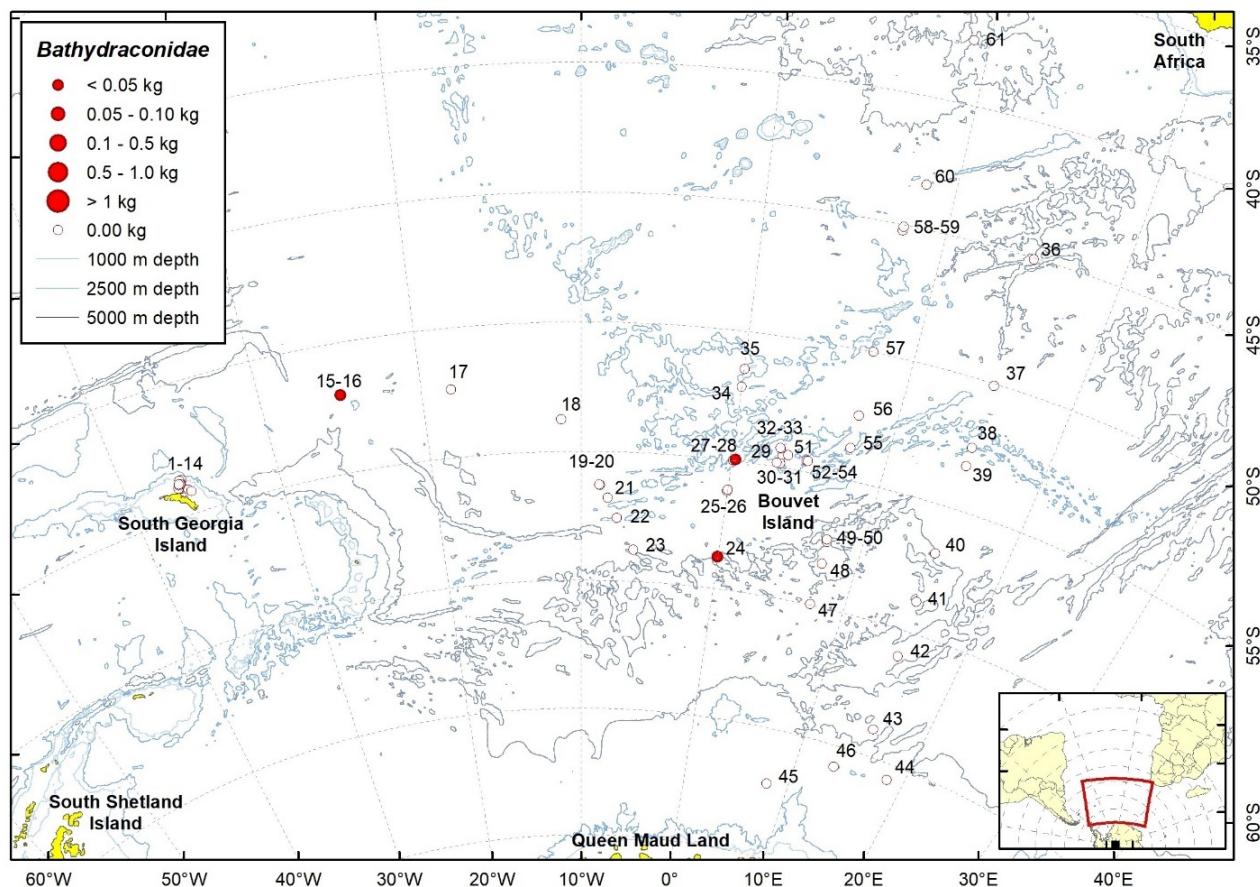


Figure 87b. Trawl stations with presence of Bathyraconidae in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 62. Station information with presence of Bathyraconidae.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

16	24.01.2008	51,99	S	25,00	W	6	4,4	3,23	45,05
24	31.01.2008	58,76	S	0,04	W	1	28,3	1,49	29,02
28	02.02.2008	54,94	S	0,25	E	13	5,2	0,47	89,03

## 2.24 - Channichthyidae

### 2.24.1 - *Chaenocephalus aceratus* (Lönnberg, 1906)



Figure 88a. Exemplary image of *Chaenocephalus aceratus*, juvenile.



Figure 88b. Exemplary image of *Chaenocephalus aceratus* with long pelvic fins.



Figure 88c. Exemplary image of *Chaenocephalus aceratus*. Pelvic fins becoming proportionally shorter with body length

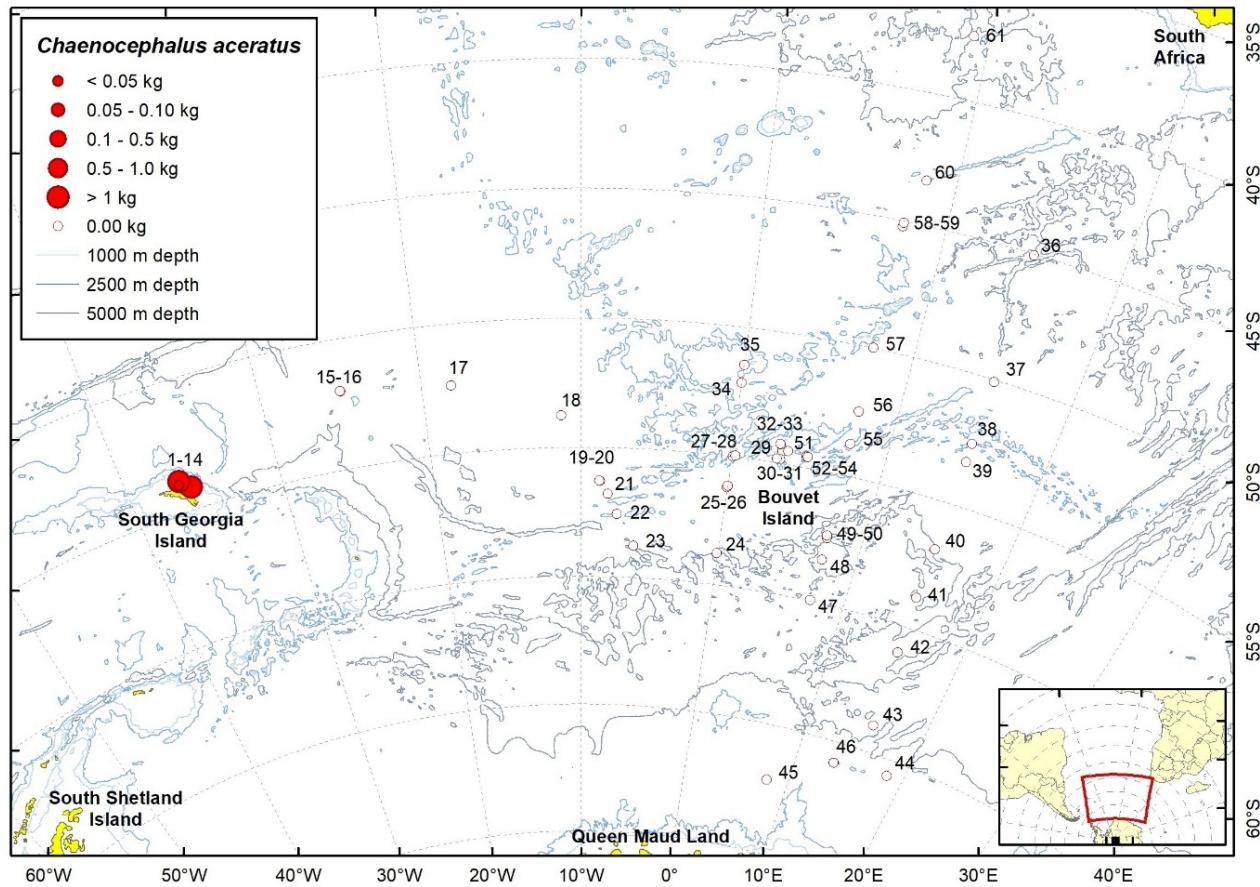


Figure 88d. Trawl stations with presence of *Chaenocephalus aceratus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 63. Station information with presence of *Chaenocephalus aceratus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

8	21.01.2008	53,92	S	36,62	W	1	0,6	0,57	5,56
10	22.01.2008	53,79	S	36,52	W	45	1773,0	42,18	44,88
14	23.01.2008	54,14	S	35,88	W	26	7521,0	311,92	311,92

## 2.24.2 - *Champscephalus gunnari* Lönnberg, 1905

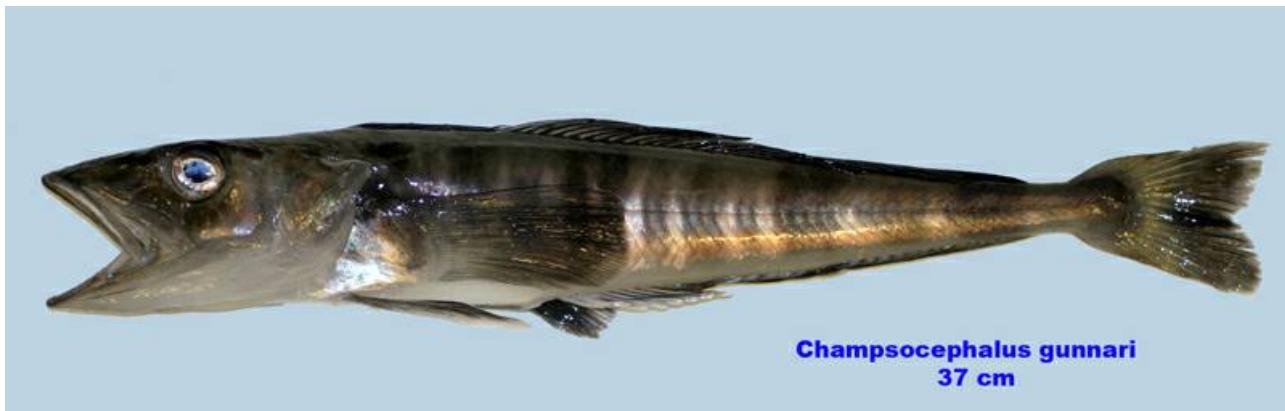


Figure 89a. Exemplary image of *Champscephalus gunnari*.

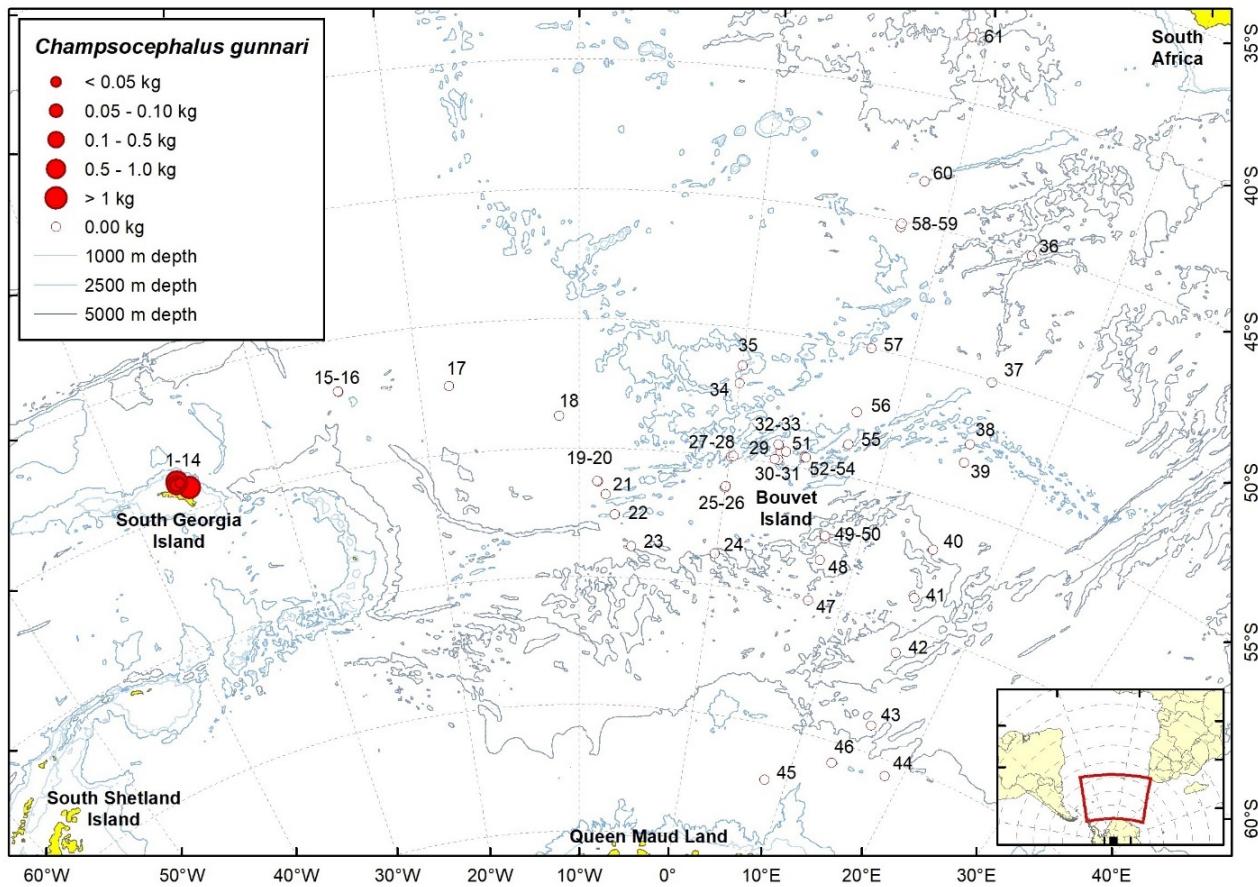


Figure 89b. Trawl stations with presence of *Champscephalus gunnari* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 64. Station information with presence of *Champscephalus gunnari*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

3	19.01.2008	53,88	S	36,37	W		12	3,2	0,01	0,15
8	21.01.2008	53,92	S	36,62	W		2409	535,9	0,57	5,56
9	21.01.2008	53,91	S	36,60	W		30	55,2	0,06	0,62
10	22.01.2008	53,79	S	36,52	W		118	14242,0	42,18	44,88
14	23.01.2008	54,14	S	35,88	W		2654	278496,0	311,92	311,92

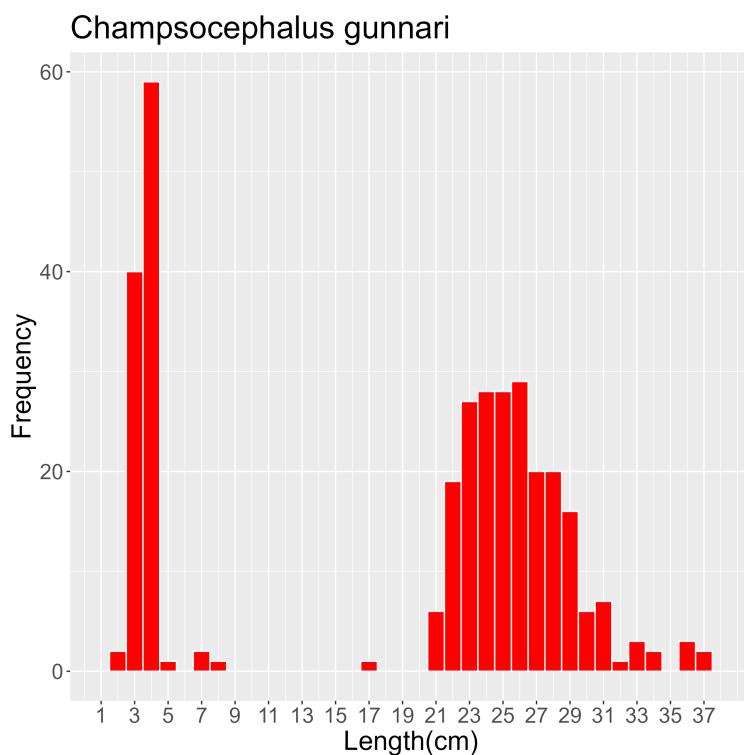


Figure 90. Length frequency of *Champscephalus gunnari* for all trawl stations combined. Frequency shown as number of individuals.

### 2.24.3 - *Dacodraco hunteri* Waite, 1916



Figure 91a. Exemplary image of *Dacodraco hunteri*.

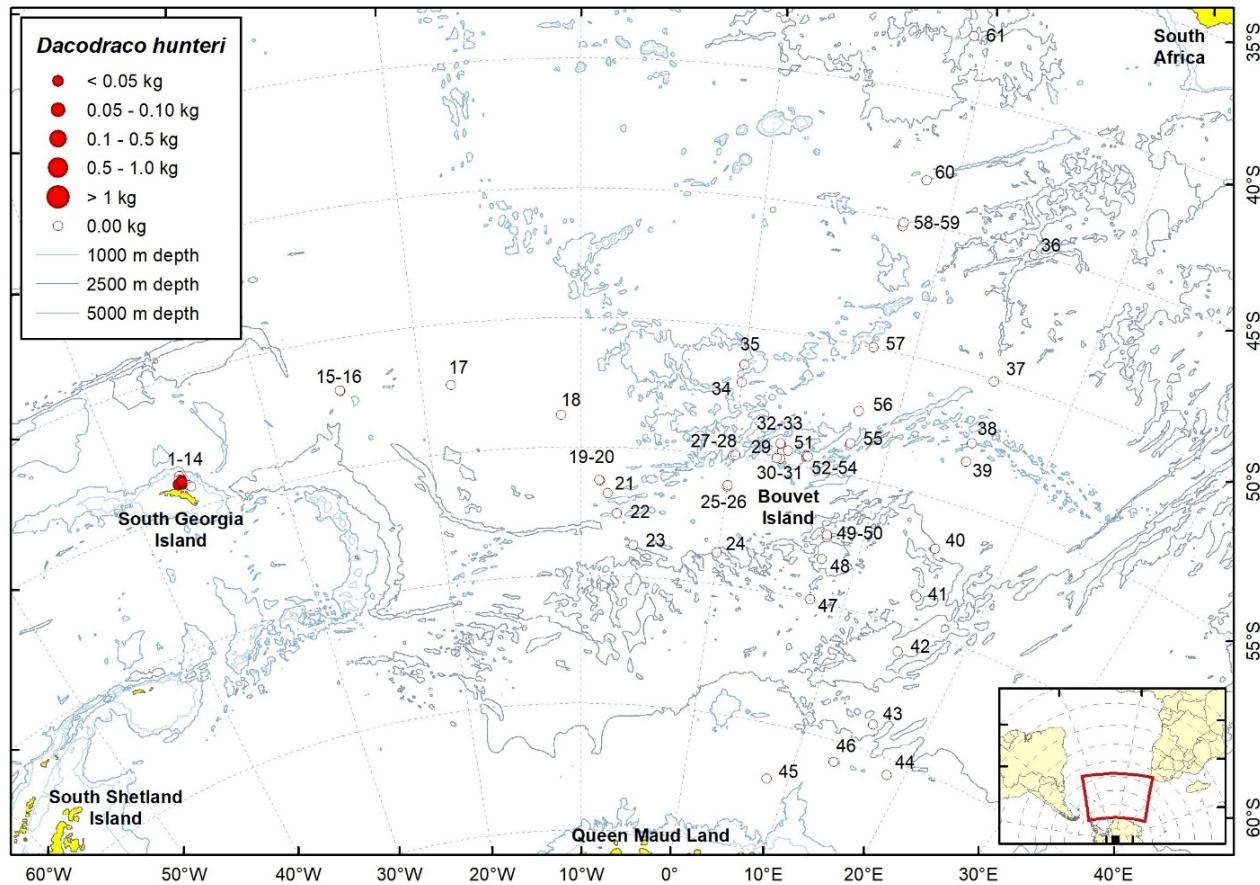


Figure 91b. Trawl stations with presence of *Dacodraco hunteri* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 65. Station information with presence of *Dacodraco hunteri*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

1	18.01.2008	53,94	S	36,40	W		2	2,0	0,00	2000,00
3	19.01.2008	53,85	S	36,38	W		1	0,1	0,01	0,15
8	21.01.2008	53,92	S	36,63	W		26	17,4	0,57	5,56

**2.24.4 - *Pseudochaenichthys georgianus* Norman, 1937**



Figure 92a. Exemplary image of *Pseudochaenichthys georgianus*.

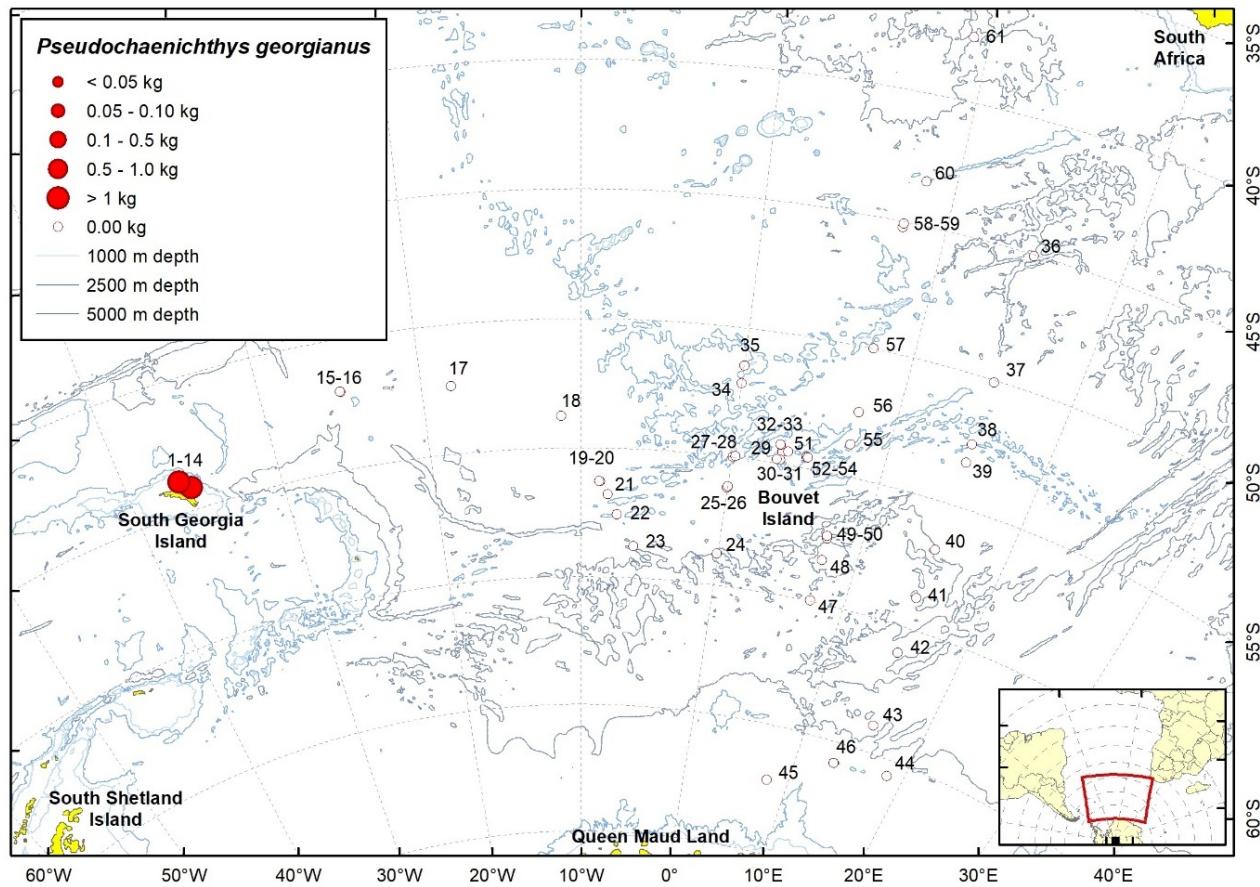


Figure 92b. Trawl stations with presence of *Pseudochaenichthys georgianus* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 66. Station information with presence of *Pseudochaenichthys georgianus*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

10	22.01.2008	53,79	S	36,52	W	54	15423,0	42,18	44,88
14	23.01.2008	54,14	S	35,88	W	22	22807,0	311,92	311,92

## 2.25 - Chiasmodontidae

### 2.25.1 - *Chiasmodon niger* Johnson, 1864



Figure 93a. Exemplary image of *Chiasmodon niger*.

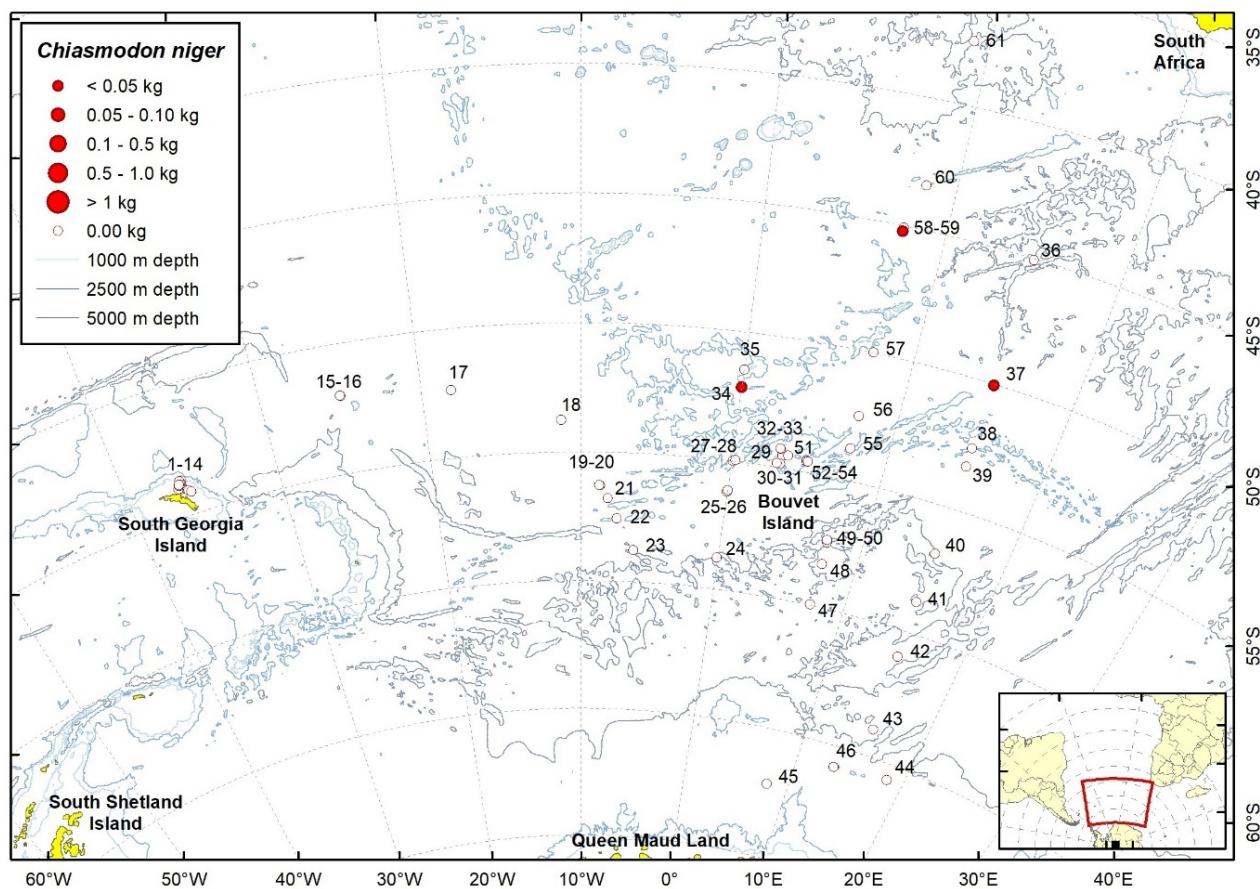


Figure 93b. Trawl stations with presence of *Chiasmodon niger* in the catch (red circles) and trawl stations with no identified presence (empty circles).

Table 67. Station information with presence of *Chiasmodon niger*.

Station	Date	Latitude	Longitude	Ind. caught	W (g)	TW fish (kg)	TW catch (kg)
---------	------	----------	-----------	-------------	-------	--------------	---------------

34	06.02.2008	52,12	S	0,02	W		2	37,1	4,15	44,70
37	24.02.2008	50,04	S	15,02	E		1	8,4	3,32	14,43
58	17.03.2008	45,20	S	7,65	E		2	44,0	10,17	19,92



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