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P.J.A. Pugh

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A synonymic catalogue of the Acari from Antarctica, the sub-Antarctic Islands and the Southern Ocean

P. J. A. PUGH

*British Antarctic Survey, Natural Environment Research Council,
High Cross, Madingley Road, Cambridge CB3 0ET, UK*

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The records, taxonomy and geographical distribution of 528 species of Acari collected from the Antarctic, sub-Antarctic islands and the Southern Ocean are collated. Included are free-living and phoretic mites, parasites and nidicoles associated with a variety of birds, seals and other introduced mammals, from terrestrial aquatic, seashore and benthic marine habitats. A number of these Acari have been introduced by humans, to and around research stations and disused whaling stations. A full alphabetical index to all current higher taxa, as well as current/redundant generic and specific names, is provided.

KEYWORDS: Acari, Antarctica, mites, Southern Ocean, systematics.

Introduction

There have been numerous studies listing the Acari collected from mainland Antarctica, the offshore and sub-Antarctic islands and the Southern Ocean itself (Table 1). Most are based upon material collected by expeditions to small areas of the continent or particular islands, and/or review all the records from their particular area. There have been accounts covering larger areas, even the whole of the Southern Ocean, though these are usually restricted to specific groups, such as free-living terrestrial mites, marine mites (Halacaridae) or seabird parasites. The present study collates all available data and includes 528 native and introduced, free-living, phoretic, parasitic and nidicolous mites. The data are presented as three main indexes, namely biosystematic, biogeographic and alphabetic.

The biosystematic index

This is based largely on Krantz (1978), but definitions of the higher taxa are drawn from other sources, for example the Cryptostigmata (Balogh, 1972), Mesostigmata (Evans and Till, 1979), Halacaridae (Prostigmata) (Newell, 1984; Bartsch, 1991, 1992), other Prostigmata and Astigmata (Griffiths and Macfarlane, 1989). A complete taxonomy is given for each species, along with a listing of all synonyms, some of which refer to records obtained outside the Southern Ocean study area. Synonyms are in chronological order, but authorities are listed only for changes to the specific names. Sources of descriptions to species listed are, where possible, restricted to the most recent works, especially those which provide comparative notes on related species and/or diagnostic keys.

Many of the expedition records were traced through the recent literature survey of Block (1992), who lists all of the Acari recorded in the expedition summaries. However, some of his entries for the early expeditions include species from beyond the Southern

Table 1. Regional reports listing Antarctic and sub-Antarctic Acari.

Area†	References‡
<i>Antarctic sectors</i>	
Maud	Strandtmann and Sømme (1977) [Prostigmata]; Sømme (1980, 1986a)
Enderby	Ewing (1945); Matsuda (1970); Roundsevell (1979)
Wilkes	—
Scott	Lankester (1902); Pryor (1962); Gless (1972)
Byrd	—
Ronne	Strandtmann (1982a) [Nanorchestidae]
Palmer	Tilbrook (1967); Strandtmann and Tilbrook (1968) [Prostigmata]
Graham	Strong (1967); Tilbrook (1967); Strandtmann and Tilbrook (1968) [Prostigmata]; Dastych (1990)
<i>Sub-Antarctic islands</i>	
South Shetland	Wallwork (1965) [Cryptostigmata]
South Orkney	Tilbrook (1973); Goddard (1979); Usher and Edwards (1984); Usher and Booth (1986)
South Sandwich	Holdgate and Baker (1979)
South Georgia	Banks (1914); Wallwork (1966b) [Cryptostigmata]; Gressitt (1970); West (1984)
Bouvetoya	Holdgate <i>et al.</i> (1968); Sømme (1986b)
Marion/P. Edward	Zinderen Bakker <i>et al.</i> (1971) [Metastigmata and Cryptostigmata]
Crozet	Strandtmann and Davies (1972) [Nanorchestidae]; Travé (1967b) [Cryptostigmata]; Wallwork (1972) [Cryptostigmata]
Kerguelen	Cambridge (1876); Studer (1879); Enderlein (1903); Gaud (1952) [Analgoidea]; Travé (1967a, 1967b, 1981) [Cryptostigmata]; Sitnikova and Andreychikova (1973)
Heard	Gressitt (1967, 1970); Horne (1984)
Macquarie	Dumbleton (1953) [Metastigmata]; Wallwork (1963) [Cryptostigmata]; Cross (1964) [Pyemotidae]; Watson (1967); Lee (1970) [Rhodacaridae]; Spain and Luxton (1971); Sitnikova and Andreychikova (1973); Luxton (1990)
Campbell	Dumbleton (1953) [Metastigmata]; Atyeo (1963) [Bdellidae]; Gressitt (1964); Wood (1967) [Stigmaeidae]; Lee (1970) [Rhodacaridae]; Luxton (1971, 1990)
Balleny/Scott	—
Peter I	—
<i>Antarctica</i>	Gressitt (1967); Wallwork (1967, 1973); Tilbrook (1973)
<i>Southern Ocean</i>	Newell (1984); Bartsch (in press) [Halacaridae]

† See definitions of areas in Fig. 1.

‡ References to specific groups within regions have the group listed in square brackets.

Ocean, and were collected either *en route* 'South' or homeward. These records have been omitted from the present study. 'New records' refer to material collected during the 1990/1991 British Antarctic Survey field season at Husvik, South Georgia.

With respect to locality, 'recorded from' is used in preference to 'habitat' for three reasons: (a) a number of records clearly refer to species that are not indigenous to the area, their distribution being restricted to the vicinity of present/former sites of human habitation, e.g. research and whaling stations; (b) some areas have not been studied systematically and the available records may not be truly representative of the region—this is particularly so when considering the shoreline of many of the sub-Antarctic islands, for which systematic studies exist only for small areas of South

Georgia and Kerguelen; (c) some records, particularly those of marine mites other than Halacaridae (Prostigmata), clearly represent displaced or dislodged individuals. Full names are given to all animal hosts, but not to plants, which are taken only to genus. The latter are indicated as algae, mosses or lichens unless they are vascular plants.

A number of parasitic ticks (Metastigmata) and sarcoptiform Astigmata have been found on Antarctic seabirds outside the survey area, i.e. the host has been recorded from the Southern Ocean area, but not the parasites. In some cases these parasites have been *suggested* as being possible inhabitants of the area and so listed as such, but those species which have no authenticated records and which have not been mentioned as likely to occur with the area have also been omitted.

The biogeographic index

The Southern Ocean area has been divided up as shown in Fig. 1. Mainland (continental) Antarctica comprises a number of sectors which include all land, ice shelves and offshore islands, to an approximate depth of 30 m. These are named, with minor modification, after those of Greene *et al.* (1970), while the divisions of the Antarctic Peninsula are those of Hattersley-Smith (1991).

Thus the entire globe south of the 45°S line of latitude is included, except for two large areas, namely around (a) the Falkland Islands and Tierra del Fuego and (b) Auckland, Antipodes, Bounty and South Island, New Zealand. These two areas are not sub-Antarctic, but rather are heavily influenced by the fauna and flora of South America and New Zealand respectively (Moore, 1968; Aleksandrova, 1974; Dudley, 1983; Strange, 1987; Wardle, 1991). Each of the sub-Antarctic islands has been treated as a separate location, though Marion and Prince Edward islands are grouped together, as are Scott and the Balleny islands.

Records of halacarid (marine) mites have been ascribed to the shores of the Antarctic sectors or islands, if the records are clearly littoral or shallow sublittoral to a depth of 30 m, while records of deeper than 30 m have been ascribed to the oceanic sectors. Where there is doubt, records have been ascribed to both terrestrial and oceanic sectors and indicated by question marks. This index also summarizes additional records of species which lie outside the confines of the study area.

The alphabetical index

This lists all taxa, including synonyms, specific and generic names and suprageneric taxa.

The biosystematic index

Subclass: ACARI ANACTINOTRICHIDA

Cohort: PARASITIFORMES

Suborder: MESOSTIGMATA (= GAMASIDA)

Diagnoses and keys to all superfamilies (Krantz, 1978) and families (Evans and Till, 1979). Keys to some species: Antarctica (Strandtmann, 1967); South Georgia (Hunter, 1970); New Zealand region (Luxton, 1990).

Superfamily: *SEJOIDEA*

Family: *ICHTHYOSTOMATOGASTERIDAE* Sellnick, 1953

Asternolaelaps sp.

Description: West (1984).

Recorded from: nests of *Halobaena caerulea* (blue petrel).

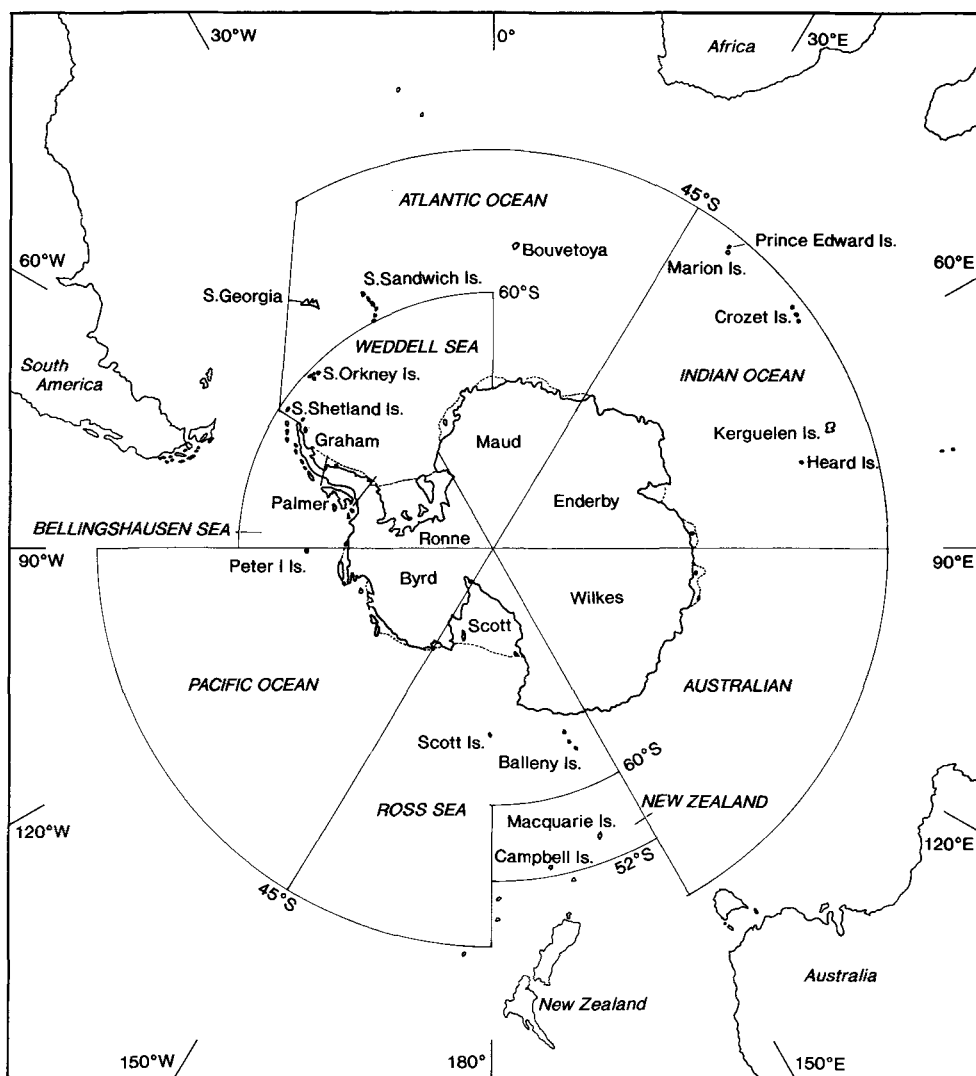


FIG. 1. Map of survey area. The following areas (in lower case) are recognized on mainland Antarctica. Maud: sector from 90°S to coast, between longitude 30°W and 30°E; Enderby: sector from 90°S to coast, between longitude 30°E and 90°E; Wilkes: sector from 90°S to coast, between longitude 90°E and 150°E; Scott: sector from 90°S to coast, between longitude 150°E and 150°W; Byrd: sector from 90°S to coast, between longitude 150°W and 90°W; Ronne: sector from 90°S to coast, between longitude 90°W and 30°W, but terminating at a line between Cape Adams (75°00'S, 62°34'W) and the English Coast (73°24'S, 72°00'W); Palmer: the southern Antarctic Peninsula between the Cape Adams/English Coast line and a line between Cape Jeremy (62°24'S, 68°50'W) and Cape Agassiz (68°28'S, 62°37'W). Graham: the Antarctic Peninsula, north of Cape Jeremy/Cape Agassiz line. The following oceanic sectors (in capitals and italics) are recognized within the Southern Ocean: Atlantic Ocean: Mainland (Maud) coast from 0° to 30°E; other coordinates at 60°S, 0°W; 60°S, 65°W; 45°S, 30°W and 45°S, 30°E; Indian Ocean: Mainland (Enderby) coast to 45°S, between 30°E and 90°E; Australian: Mainland (Wilkes) coast to 45°S, between 90°E and 150°E; New Zealand: 'box' formed by the lines 60°S, 52°S, 150°W and 180°W; Ross Sea: Mainland (Scott) coast to 60°S, between 150°E and 150°W, and a 'box' formed by the lines 60°S, 45°S, 180°W and 150°W; Pacific Ocean: Mainland (Byrd) coast to 60°S, between 150°W and 270°W; Bellingshausen sea: Mainland (west Ronne, west Palmer and west Graham) coast to 60°S, between 90°W and the tip of the Peninsula (65°W); Weddell Sea: Mainland (east Graham, east Palmer and north Ronne) coast to 60°S, between the tip of the Peninsula (65°W) and 0°W.

Superfamily: *PARASITOIDEA*

Family: *PARASITIDAE* Oudemans, 1901

Eugamasus sp. no. 1

Listed in: Watson (1967).

Recorded from: vegetation litter.

Eugamasus sp. no. 2

Listed in: Watson (1967).

Recorded from: vegetation litter.

Eugamasus sp. no. 3

Listed in: Watson (1967).

Recorded from: vegetation litter.

Eugamasus sp. no. 4

Listed in: Watson (1967).

Recorded from: vegetation litter.

Eugamasus sp. no. 5

Listed in: Watson (1967).

Recorded from: vegetation litter.

Parasitus tarsispinosus Hunter, 1964

Description: Hunter (1964).

Recorded from: 'under wood on ash plain', Deception Is.

Pergamasus sp. no. 1

Listed in: Watson (1967).

Recorded from: vegetation litter.

Pergamasus sp. no. 2

Listed in: Watson (1967).

Recorded from: vegetation litter.

Family: *VEIGAIIDAE* Oudemans, 1939

Key: South Georgia (Hunter, 1970).

Cyrthyrolaelaps watsoni Hirschmann, 1966

Cyrthyrolaelaps sp. (Watson, 1967)

Descriptions: Hirschmann (1966); Hunter (1970).

Recorded from: the sea shore under rocks, tidal debris; among lichens and whalebone in the supralittoral, the vascular plants (*Colobanthus*, *Cotula*, *Stilbocarpa*) and a variety of mosses.

Gamasolaclaps arenosus Hunter, 1970

Description: Hunter (1970).

Recorded from: tussock grass in penguin colony, in nests and rookeries of penguins; under rocks, dry moss and board and under rocks near stream.

Veigaia claggi Hunter, 1970

Description: Hunter (1970).

Recorded from: white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*) nests.

***Veigaiidae* (gen. et sp.)**

Listed in: Tilbrook (1967).

No habitat data given.

Superfamily: *RHODACAROIDEA*

Family: *RHODACARIDAE* Oudemans, 1902

Diagnoses and keys: World genera (Lee, 1970); Southern Ocean (Lee and Hunter, 1974); Australian region (Luxton, 1990).

***Acugamasus watsoni* (Hirschmann, 1966)**

Gamasellus (*Gamasellus*) *watsoni* Hirschmann, 1966

Descriptions: Hirschmann (1966), Lee and Hunter (1974).

Recorded from: grassland soil and vegetation (*Stilbocarpa*) litter.

***Athiasella longiseta* Lee and Hunter, 1974**

Description: Lee and Hunter (1974).

Recorded from: mosses and lichens on rocks.

***Athiasella pecten* Lee and Hunter, 1974**

Description: Lee and Hunter (1974).

Recorded from: vegetation litter debris and bird nest.

***Athiasella scaphosternum* Lee and Hunter, 1974**

Description: Lee and Hunter (1974).

Recorded from: among vegetation and bird nests.

***Athiasella viripileus* Lee and Hunter, 1974**

Description: Lee and Hunter (1974).

Recorded from: under stones, among vegetation (*Azorella* and *Poa*), litter debris, moss and low plants.

***Caliphis schusteri* (Hirschmann, 1966)**

Gamasellus (*Hydrogamasellus*) *schusteri* Hirschmann, 1966

Descriptions: Hirschmann (1966); Lee and Hunter (1974).

Recorded from: leaf mould, sooty albatross and shag nests; among vegetation and debris both on shore and in land; sheep dung.

***Cymiphis watsoni* (Hirschmann, 1966)**

Gamasiphis watsoni Hirschmann, 1966

Descriptions: Hirschmann (1966); Lee and Hunter (1974).

Recorded from: among leaf debris and liverworts.

***Euepicrius caesariatus* Lee and Hunter, 1974**

Description: Lee and Hunter (1974).

Recorded from: among vegetation, leaf litter and bird nests.

***Euepicrius* sp.**

Listed in: Spain and Luxton (1971).

No habitat data given.

Gamasellus racovitzai (Trouessart, 1903)*Gamasus racovitzai* Trouessart, 1903*Digamasellus racovitzai**Zercon tuberculatus* Trägårdh, 1908*Gamasellus* (*Digamasellus*) *racovitzai**Cyrtolaelaps* (*Gamasellus*) *racovitzai**Cyrtolaelaps racovitzai**Hydrogamasellus racovitzai*

Descriptions: Trouessart (1903), Hunter (1967a, 1970), Lee (1970).

Recorded from: in moss turf, on lichens, grass, algae, nests and 'herb'; on the seashore under stones.

Gamasellus racovitzai neo-orcadensis Trouessart, 1912*Gamasellus racovitzai neoorcadensis*

Descriptions: Trouessart (1912), Ryke (1962), Jumeau and Usher (1987).

Recorded from: among mosses and lichens on rocks.

***Gamasellus* sp.**

Listed in: Gressitt (1967).

No habitat data given.

Gamasiphoides macquariensis (Hirschmann, 1966)*Gamasellus* (*Hydrogamasellus*) *macquariensis*

Description: Lee and Hunter (1974).

Recorded from: leaf litter.

Heterogamasus (calacarellus?) Lee, 1967

Description: Lee (1967).

New record from: among whalebone and high-level debris in the supralittoral.

Heydeniella crozetensis Richters, 1907*Gamasiphis crozetensis* Trägårdh, 1907

Descriptions: Richters (1908), Lee (1970).

Recorded from: among moss.

Heydeniella sherrae Lee and Hunter, 1974

Description: Lee and Hunter (1974).

Recorded from: among vegetation, gull nests and rabbit burrows.

Heydeniella womersleyi Lee and Hunter, 1974

Description: Lee and Hunter (1974).

Recorded from: among vegetation, leaf mould and shag (*Phalacrocorax*) nests.***Heydeniella* sp.**

Listed in: Watson (1967).

Recorded from: among lichens, moss or plant litter, under stones.

Hydrogamasellus antarcticus (Trägårdh, 1908)*Hydrogamasus antarcticus* Trägårdh, 1908*Neoparasitus crozetensis* Richters, 1907*Hydrogamasellus gaussi* Lee, 1970

Descriptions: Hunter (1964, 1967, 1970), Lee (1970).

Recorded from: moss, leaf litter, caves, lichens and bird nests.

Hydrogamasellus crozetensis (Richters, 1908)

Gamasellus crozetensis Richters, 1908

Hydrogamasellus richtersi Lee, 1970

Descriptions: Richters (1908), Lee (1970).

Recorded from: moss.

Hydrogamasus kensleri Luxton, 1967

Hydrogamasus (Austrohydrogamasus) watsoni Hirschmann, 1966 *in pars*.

Descriptions: Luxton (1967, 1990).

Recorded from: under stones, among lichens, whalebone and tidal debris on the seashore.

Hydrogamasus (Austrohydrogamasus) watsoni Hirschmann, 1966

Descriptions: Hirschmann (1966), Hunter (1970).

Recorded from: among littoral algae, tidal debris, under stones on seashore and in penguin rookeries.

Litogamasus falcipes Lee and Hunter, 1974

Descriptions: Lee and Hunter (1974), Luxton (1990).

Recorded from: under rocks, high in the littoral zone on the seashore.

Litogamasus gressitti (Hunter, 1970).

Gamasellus gressitti Hunter, 1970.

Description: Hunter (1970).

Recorded from: among bird nests, from moss, tidal debris and on rocks.

Litogamasus setosus (Kramer, 1898)

Cyrtolaelaps setosus Kramer, 1898.

Descriptions: Kramer (1898), Lee and Hunter (1974), Luxton (1990).

Recorded from: the littoral zone, on stones near low water mark.

***Litogamasus* sp.**

New record from: among upper littoral algae and supralittoral lichens.

Parastiphis aurora Lee, 1970

Hydrogamasus antarcticus Womersley, 1937 (nec. Trägårdh, 1910)

Descriptions: Lee (1970), Lee and Hunter (1974), Luxton (1990).

Recorded from: the upper littoral zone in rock crevices and under stones.

Parastiphis brunneus (Kramer, 1898)

Laelaps brunneus Kramer, 1898

Description: Kramer, (1898).

New record from: the littoral zone in rock crevices, under stones and among tidal debris. New record for the Southern Ocean, previously only found at Tierra del Fuego.

Parastiphis jeanneli (André, 1947)

Neoparasitus sp. Richters, 1908

Gamasellus jeanneli

Hydrogamasus (Austrohydrogamasus) watsoni Hirschmann, 1966 *in pars*

Descriptions: André (1947), Hirschmann (1966), Lee (1970), Luxton (1990).

Recorded from: on vegetation, in penguin rookery; rock crevices and under stone in the littoral zone.

Pilellus rugipellis Lee and Hunter, 1974

Description: Lee and Hunter (1974).

Recorded from: among moss.

Pilellus rykei Hunter, 1967*Cyrtolaelaps (Gamasellus) rykei**Gamasellus rykei*

Description: Hunter (1967).

Recorded from: among mosses.

***Pilellus* sp.**

Listed in: Lee (1970).

No habitat data given.

Rhodacaroides* sp.Rhodacarus* sp. Richters, 1908

Listed in: Richters (1907); Lee and Hunter (1974).

Recorded from: among roots of *Deschampsia*.Family: *DIGAMASELLIDAE* Evans, 1957***Dendrolaelaps kargi*** Hirschmann, 1966

Description: Hirschmann (1966).

Recorded from: among vegetation, in a penguin nest, on the seashore under driftwood.

Dendrolaelaps templei (Hunter, 1970)*Digamasellus templei* Hunter, 1970

Description: Hunter (1970).

Recorded from: burrow of dove prion (*Pachyptila desolata*).***Dendrolaelaps (Luxtondendrolaelaps)* sp. nov.** Hirschmann (personal communication)

New record from: supralittoral tidal debris.

Digamasellus schusteri (Hirschmann, 1966)*Dendrolaelaps schusteri* Hirschmann, 1966

Description: Hirschmann (1966).

Recorded from: among litter debris, sheep dung and penguin nests.

Digamasellus watsoni (Hirschmann, 1966)*Dendrolaelaps watsoni* Hirschmann, 1966

Description: Hirschmann (1966).

Recorded from: among plants, mosses, algae and on rocks in penguin rookery.

Superfamily: *ASCOIDEA*Family: *ASCIDAE* Voigts and Oudemans, 1905***Asca crozetensis*** Richters, 1908

Description: Richters (1908).

Recorded from: moss.

***Iphidozercon* sp.**

Listed in: Watson (1967).

Recorded from: penguin rookeries, in and around nest litter and vegetation.

***Lasioseius* sp.**

Listed in: Goddard (1979).

No habitat data given.

Family: *HALOLAEAPIDAE* Karg, 1965

***Halolaelaps* sp. nov.** Karg (personal communication)

New record from: the seashore, under stones among tidal debris in supralittoral zone.

Superfamily: *PHYTOSEIOIDEA*

Family: *AMEROSEIIDAE* Evans, 1963

***Ameroseius* sp.** Chant and Lindquist (1963)

Listed in: Watson (1967).

Recorded from: soil and litter of *Poa foliosa*, *Stilbocarpa*, *Colobanthus*; algae and lichens lining wall of a cave.

Family: *PHYTOSEIIDAE* Berlese, 1916

Sejulus plumosus Oudemans, 1905

Listed in: Richters (1908).

Recorded from: mosses, a non-indigenous species, introduced from Europe?

Superfamily: *EVIPHIDOIDEA*

Family: *EVIPHIDIDAE* Berlese, 1913

Alliphis siculus (Oudemans, 1905) *sensu* Karg, 1962

Listed in: Watson (1967); Spain and Luxton (1971). Description: (from Europe) Karg (1962).

Recorded from: Sheep dung. This species is widespread throughout Europe and Africa and is probably cosmopolitan. The single record suggests that it is introduced.

Thinoseius hirschmanni Hunter, 1970

Description: Hunter (1970).

New record from: under rocks on the seashore.

Thinoseius katherinae Hunter, 1970

Description: Hunter (1970).

Recorded from: tussock grass and on the seashore among supralittoral tidal debris.

Family: *PACHYLAELAPIDAE* Berlese, 1913

Pachyseius adeliensis Womersley, 1937

Description: Womersley (1937).

Recorded from: the deep sea at 20–30 fathoms (37–55 m). This specimen must have been washed in from a terrestrial site.

Superfamily: *DERMANYSSOIDEA*

Family: *LAELAPIDAE* Berlese, 1892

Androlaelaps pachyptilae (Zumpt and Till, 1956)

Haemolaelaps pachyptilae Zumpt and Till, 1956

Descriptions: Hunter (1964, 1970).

Recorded from: burrows and nests of various seabirds.

Ayersacarus gellidus Hunter, 1964

Descriptions: Hunter (1964), Watson (1967).

Recorded from: *Silbocarpus* litter, sheep dung, gentoo penguin (*Pygoscelis papua*) rookery soil, nest material of various birds, moss.

Ayersacarus gressitti Hunter, 1964

Description: Hunter (1964).

Recorded from: *Colobanthus*, *Dracophyllum* and other 'low plants', leaf mould, moss; bird nests and burrows.

Ayersacarus plumapilpis Hunter, 1964

Description: Hunter (1964).

Recorded from: among vegetation, moss, leaf mould, bird nests and 'chicken yard debris'.

Ayersacarus strandtmanni Hunter, 1964

Description: Hunter (1964).

Recorded from: burrows of dove prion (*Pachyptila desolata*).

Ayersacarus tilbrookii Hunter, 1967

Description: Hunter (1967, 1970).

Recorded from: bird nests and among bird feathers.

Eulaelaps stabularis (Koch, 1836)

Gamasus stabularis Koch, 1836

Description: Wilson (1964a).

Recorded from: 'chicken yard debris', a cosmopolitan and possibly a non-indigenous introduced species.

Haemogamasus pontiger Berlese, 1903

Eulaelaps mawsoni Womersley, 1937

Description: Berlese (1903).

One record from: the seashore (Australian Antarctic Expedition, 1911–1914), but it is usually a facultative parasite on rats and food. Cosmopolitan. This species is non-indigenous and the records from Macquarie Is. are probably the result of accidental introduction.

Hypoaspis evansi (Hunter, 1964)

Stevacarus evansi Hunter, 1964

Description: Hunter (1964).

Recorded from: nest of white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*), on the seashore under board and rotting kelp (tidal debris).

Hypoaspis ('type') sp.

Listed in: Holdgate *et al.* (1968).

No habitat data given.

Laelaps (Eulaelaps) grahamensis Trägårdh, 1908

Description: Trägårdh (1908).

Recorded from: under stones.

Leptolaelaps macquariensis (Womersley, 1937)*Pachylaelaps macquariensis* Womersley, 1937

Descriptions: Womersley (1937), Luxton (1990).

Recorded from: between tidemarks, a non-indigenous species, possibly introduced from another island site.

Leptolaelaps reticulatus Evans, 1957 subspecies ***campbellensis*** Hunter, 1964

Description: Hunter (1964).

Recorded from: vegetation, moss, leaf litter, bird nests.

Proctolaelaps hypudaei (Oudemans, 1902)

Description: Oudemans (1902).

Recorded from: shallow freshwater pool and on one un-named site.

Stevacarus claggi Hunter, 1970

Description: Hunter (1970).

Recorded from: moss, under rocks in penguin rookery, rock crevices, under stones, tussock grass, shore vegetation, bird nests.

Laelapidae inquerendia

sp. no. 1 (damaged specimen).

Listed by: Bull (1960).

Recorded as: ectoparasite of rabbit (*Oryctolagus cuniculus*).

sp. no. 2 (damaged specimen).

Listed by: Bull (1960).

Recorded as: ectoparasite of rabbit (*Oryctolagus cuniculus*).Family: *HALARACHNIDAE* Oudemans, 1906

Key: Wilson (1970).

Halarachne miroungae Ferris, 1925*Halarachne taita* Eichler, 1958*Halarachne erratica* Fain and Mortelmans, 1959

Descriptions: Ferris (1925), Newell (1947b), Domrow (1962), Wilson (1967, 1970a).

Recorded from: within the nostrils of southern elephant seals (*Mirounga leonina*).***Halarachne*** sp. (close to *H. halichoeri* Allmann, 1847)*Halarachne halichoeri* Allmann, 1847 in Block (1992)

Listed in: Blanchard (1906).

Recorded from: within the nostril of a leopard seal (*Hydrurga leptonyx*). This record probably refers to *Halarachne miroungae* larva (personal observation).Family: *RHINONYSSIDAE* Trouessart, 1894

Keys: Wilson (1967, 1970a).

Rhinonyssus rhinolethrum (Trouessart, 1895)*Sternostomum rhinolethrum* Trouessart, 1895

Description: Wilson (1970a).

Recorded from: on ducks (*Anas*), cosmopolitan.

Rhinonyssus schelli Fain and Hyland, 1963*Rhinonyssus sphenisci schelli* Fain and Hyland, 1894

Descriptions: Wilson (1967, 1970a).

Recorded from: on a variety of penguins including Humboldt, adelic and gentoo (*Spheniscus humboldti*, *Pygoscelis adeliae* and *P. papua*); one deuteronymph found among yellow lichens on seashore.Superfamily: *CERCOMEGISTOIDEA*Family: *CERCOMEGISTIDAE* Trägårdh, 1938

Unidentified no. 1

Listed in: Watson (1967).

Recorded from: among vegetation litter.

Unidentified no. 2 (*Celaenogamasus* sp.)

Listed in: Watson (1967).

Recorded from: among vegetation.

Unidentified no. 3 (*Celaenogamasus* sp.)

Listed in: Watson (1967).

Recorded from: vegetation associated with penguin rookeries.

Family: *DAVACARIDAE* Kethley, 1977***Davacarus gressitti*** Hunter, 1970

Description: Hunter (1970).

Recorded from: bird nests and rookeries.

Davacarus* sp.Daveacarus* sp. in Tilbrook (1967) [sic.]= *Davacarus gressitti*?

Listed in: Tilbrook (1967).

Recorded from: bird nests.

Superfamily: *POLYASPIDOIDEA*Family: *POLYASPIDIDAE* Berlese, 1913

Unidentified no. 1

Listed in: Watson (1967).

Recorded from: soil around roots of *Poa foliosa*.

Unidentified no. 2

Listed in: Watson (1967).

Recorded from: *Stilbocarpus* fruiting heads, *Puccinellia* moss and green algae of sea-sprayed coastal rocks.Superfamily: *UROPODOIDEA*Family: *UROPODIDAE* Berlese, 1900***Phaulodinychus gressitti*** Hirschmann, 1972*Uropoda* (*Phaulodinychus*) *gressitti* Hirschmann, 1972

Description: Hirschmann (1972). Listed in: West (1984).

Recorded from: terrestrial vegetation.

***Uroobovella gressitti* Hirschmann and Z-Nicol, 1972**

Description: West (1984).

Recorded from: terrestrial vegetation.

***Uropoda* sp. no. 1**

Listed in: Watson (1967).

Recorded from: among vegetation and soil, under stones and in nesting material of birds, sheep dung, cave-wall lichens.

***Uropoda* sp. no. 2**

Listed in: Watson (1967).

Recorded from: bird nesting material, plant litter associated with penguins and sheep.

***Uropoda* sp. no. 3**

Listed in: Watson (1967).

Recorded from: plant litter and soil, mosses, bird nests and sheep dung.

Uropodidae* nr. *Uroobovella

Listed in: Tilbrook (1967).

Recorded from: terrestrial vegetation.

Uropodidae* Inquerendia**Opisthops crozetensis* Richters, 1908**

Description: Richters (1907).

Recorded from: moss.

***Piracarus crozetensis* Richters, 1908**

Description: Richters (1908).

Recorded from: the sea at a depth of 37–55 m, probably a dislodged specimen.

Suborder: METASTIGMATA (=IXODIDA)

Diagnosis and key to genera: Krantz (1978).

Superfamily: *IXODOIDEA*

A number of species not mentioned here are listed in Speiser (1909), but these are not authenticated records from the Southern Ocean and were collected en route in South Africa.

Family: *IXODIDAE* Murray, 1877

Keys: Wilson (1964b, 1967).

Ixodes auritulus* Neumann, 1907Ixodes thoracicus* Neumann, 1899*Ixodes percavatus* Dalenius, 1965

Description: Wilson (1967).

Recorded from: king penguin (*Apenodytes patagonia*) and antarctic skua (*Catharacta antarctica*).***Ixodes kerguelensis* André and Colas-Belcour, 1942***Ixodes canisuga kerguelensis* André and Colas-Belcour, 1942*Ixodes canisuga* André and Colas-Belcour 1942, in Block, 1992*Ixodes percavatus* André, 1947*Ixodes auritulus* Zumpt, 1952

Ixodes pterodromae Arthur, 1962, nec. Wilson (1964a)

Ixodes zumpti Arthur, 1960

Descriptions: Wilson (1970a, 1970b).

Recorded from: a variety of seabirds.

***Ixodes pterodromae* Arthur, 1960**

Ixodes auritules [sic.] Nuttall, 1916

Description: Wilson (1964).

Recorded from: wandering albatross (*Diomedea exulans*), king penguin (*Apenodytes patagonia*), southern skua (*Catharacta antarctica*) and dove prion (*Pachyptila desolata*).

***Ixodes uriae* White, 1852**

Ixodes euditydis Maskall, 1885?

Hyalomma puta Pickard-Cambridge, 1876

Ixodes borealis Kramer and Neumann, 1883

Ixodes fimbriatus Kramer and Neumann, 1883

Ixodes hirsutus Birula, 1895

Ixodes (*Ceratixodes*) *putus* Neumann, 1911

Ceratixodes putus Cambridge (Bank, 1914)

Ixodes (*Ceratixodes*) *putus procellariae* Schulz, 1930

Ixodes (*Ceratixodes*) *uriae* Arthur, 1963

Ceratixode uriae

Ixodes putus

Descriptions: Watson (1967), Wilson (1964a, 1967, 1970a, 1970b).

Recorded from: a variety of seabirds, including albatrosses, penguins and petrels.

Subclass: ACARI-ACTINOTRICHIDA

Order: ACARIFORMES

Suborder: PROSTIGMATA (= ACTINEDIDA)

Diagnoses and keys: all families (Krantz, 1978); some Antarctic species (Strandtmann, 1967).

Superfamily: *PACHYGNATHOIDEA*

Family: *NANORCHESTIDAE* Grandjean, 1937

Keys: Booth (1984), Luxton (1990).

***Nanorchestes amphizius* Topsent and Trouessart, 1890**

Listed in: Dalenius (1965) from the Australian Antarctic Expedition.

Recorded from: seaweed. This species is European and the record is probably a mis-identification (personal observation).

***Nanorchestes antarcticus* Strandtmann, 1963**

Descriptions: Womersley and Strandtmann (1963), Strandtmann (1964, 1967, 1982).

Recorded from: on open rock surfaces, under stones and in soil.

***Nanorchestes bellus* Strandtmann and Sømme, 1977**

Descriptions: Strandtmann and Sømme (1977); Strandtmann (1982a).

Recorded from: on bare soil and under stones.

***Nanorchestes berryi* Strandtmann, 1982**

Description: Strandtmann (1982c).

Recorded from: among vegetation including the lichen *Stereocaulon*, *Polytrichum* and other mosses, grass and on rocks.

Nanorchestes bifurcatus Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: lichens (*Usnea* and *Umbellicaria*), patches of mosses (*Grimmia* and *Bryum*), under small rocks and among gravel more or less covered by vegetation.

Nanorchestes brekkeristae Strandtmann and Sømme, 1977

Descriptions: Strandtmann and Sømme (1977), Strandtmann (1982a).

Recorded from: among lichens, under rocks covered with lichens, moist gravel and sand.

Nanorchestes gressitti Strandtmann, 1982

Description: Strandtmann (1982c).

Recorded from: the interface of wet and dry humus, among *Polytrichum*, under rocks on moss bed, under stones and among penguin feathers under snow.

Nanorchestes lalae Strandtmann, 1982

Description: Strandtmann (1982a).

Recorded from: on bare soil, under rocks and in moss.

Nanorchestes macquariensis Strandtmann, 1982

Descriptions: Strandtmann (1982b), Luxton (1990).

Recorded from: among *Puccinellia*, green algae and in littoral crevices in coastal regions.

Nanorchestes marianae Strandtmann, 1982

Description: Strandtmann (1982b).

Recorded from: among soil and vegetable litter.

Nanorchestes rounsevelli Strandtmann, 1982

Description: Strandtmann (1982b).

Recorded from: among *Pleurophyllum* and soil.

Nanorchestes triclavatus Booth, 1984

Description: Booth (1984).

Recorded from: fellfield.

Nanorchestes watsoni Strandtmann, 1982

Descriptions: Strandtmann (1982b), Luxton (1990).

Recorded from: lichens on coastal rocks.

Nanorchestes wilbanksi Strandtmann, 1981

Description: Strandtmann (1981)

Recorded from: lichens on rocks.

***Nanorchestes* sp. no. 1**

Listed in: Strandtmann and Davies (1972).

Recorded from: lichens on rocks.

***Nanorchestes* sp. no. 2**

Listed in: Matsuda (1977).

Recorded from: lichens on rocks.

***Nanorchestes* sp. no. 3**

Listed in: Strandtmann (1977).

Recorded from: lichens on rocks.

***Nanorchestes* sp. no. 4**

Listed in: Wynn-Williams (1985).

Recorded from: lichens on rocks.

***Speleorchestes* sp.**

Listed in: Rounsevell and Greenslade (1988).

No habitat data provided.

Family: *PACHYGNATHIDAE* Kramer, 1877

***Gainia nivalis* Trouessart, 1914**

Listed in Dalenius (1965) and Gressitt (1967). Description: Thor and Willmann (1941) from Europe. This species may be a *Nanorchestes* (personal observation).

Recorded from: surface of snow.

Superfamily: *EUPODOIDEA*

Family: *EUPODIDAE* C. L. Koch, 1835

Keys: Strandtmann and Tilbrook (1968), Strandtmann (1971), Strandtmann and Davies (1972), Booth *et al.* (1985).

***Cocceupodes australis* Strandtmann and Tillbrook, 1968**

Description: Strandtmann and Tilbrook, 1968.

Recorded from: among *Polytrichum alpinum* on volcanic ash.

***Eupodes angardi* Strandtmann and Sømme, 1977**

Description: Strandtmann and Sømme, 1977.

Recorded from: breeding ground of snow petrels.

***Eupodes crozetensis* Strandtmann and Davies, 1972**

Description: Strandtmann and Davies (1972).

Recorded from: among *Blechnum* and *Deschampsia* on peat and mineral soil.

***Eupodes exiguus* Booth, Edwards and Usher, 1985**

Description: Booth *et al.* (1985).

Recorded from: extractions from *Polytrichum/Chorisodontium* moss turf and from *Andraea* on fellfield.

***Eupodes longisetatus* Strandtmann, 1964**

Description: Strandtmann (1964).

Recorded from: leaf mould and litter, among moss on rocks; moss and lichen on trunk of *Drachophyllum*.

***Eupodes minutus* (Strandtmann, 1967)**

Tydeus antipodanus (Womersley, 1937)

Eupodes antipodanus

Protereunetes minutus Strandtmann, 1967

Description: Strandtmann (1967, 1970), Booth *et al.* (1985), Luxton (1990).

Recorded from: among *Deschampsia*, the mosses *Polytrichum*, *Pohlia* and *Drapenocladus*, the alga *Prasiola*; nest material of wandering albatross (*Diomedea exulans*) and white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*); among littoral algae.

Eupodes parvus Booth, Edwards and Usher, 1985

Description: Booth *et al.* (1985).

Recorded from: moss turf extractions, including the mosses *Drepanocladus*, *Choristondium* and *Polytrichum*.

Eupodes parvus grahamensis Booth, Edwards and Usher, 1985

Description: Booth *et al.* (1985).

Recorded from: *Deschampsia*; moss turf extractions, including *Polytrichum*, *Disitichium* and *Bryum*.

Eupodes tottanfjella Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: among mosses (*Grimmia* and *Bryum*) and lichens (*Usnea* and *Umbellicaria*), especially near water seepage with green alga (*Prasiola*); under rocks and at entrance of snow petrel (*Pagodroma nivea*) nest.

Eupodes wisei Womersley and Strandtmann, 1963

Description: Womersley and Strandtmann (1963).

Recorded from: under stones in southern skua (*Catharacta macckormicki*) rookery.

Eupodes wisnesi Strandtmann and Sømme, 1977

Description: Strandtmann and Sømme (1977).

Recorded from: breeding ground of snow petrel (*Pagodroma nivea*); on scree, among moss and lichens.

***Eupodes* sp. no. 1**

Listed in: Watson (1967).

Recorded from: among leaves, litter and soil of grassland and herbfield plants; *Colobanthus*; sheep dung; rockhopper penguin (*Eudyptes chryocome*); algae on coastal and rookery rock; under wooden board on sandy beach. From sea level to +250 m.

***Eupodes* sp. no. 2**

Listed in: Usher and Edwards (1984).

Recorded from: *Deschampsia*.

***Eupodes* sp. no. 3**

Listed in: Usher and Edwards (1984).

Recorded from: *Deschampsia*.

***Eupodes* sp. no. 4**

Listed in: Usher and Edwards (1984).

Recorded from: *Deschampsia*.

***Eupodes* sp. no. 5**

Listed in: Usher and Edwards (1984).

Recorded from: *Deschampsia*.

Protoreunetes crozeti Strandtmann and Davies, 1972

Description: Strandtmann and Davies (1972).

Recorded from: mineral soil pocket in fellfield; in moss and *Blechnum* on peat and among *Deschampsia*.

Prottereunetes maudae Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: soil and lichens; among sand and gravel with patches of moss (*Bryum*) near colonies of snow petrels.

Prottereunetes paulinae Gless, 1972

Prottereunetes sp. Gless, 1967

Description: Gless (1972).

Recorded from: among soil under loose rocks.

***Prottereunetes* sp. no. 1**

Listed in: Gressitt (1967).

No habitat data given.

***Prottereunetes* sp. no. 2**

Listed in: Watson (1967).

Recorded from: grassland soil and herb field plants; *Colobanthus*, *Puccinella*, lichens of caves and coastal rocks; sheep dung, rockhopper penguin debris and under wooden board on a sandy beach.

Family: *PENTHALEIDAE* Oudemans, 1931

Halotydeus signiensis Strandtmann and Tilbrook, 1968

Description: Strandtmann and Tilbrook (1968).

Recorded from: among mosses.

***Halotydeus* sp. no. 1**

Listed in: Wilson (1967).

Recorded from: among *Cotula* and *Colobanthus* growing on sea-sprayed rocks.

***Halotydeus* sp. no. 2**

New record from: supralittoral whalebone crevices.

Penthaleus major (Duges, 1834)

Tetranychus major Duges, 1834

Description: Strandtmann (1964).

Recorded from: among grass by a stream.

***Penthaleus* sp.**

New record from: supralittoral tidal debris and stones.

Family: *PENTHALODIDAE* Thorell, 1933

Key: Strandtmann (1971).

Stereotydeus belli (Trouessart, 1902)

Penthaleus belli Trouessart, 1902

Chromotydeus belli

Descriptions: Womersley and Strandtmann (1963), Strandtmann (1967), Gless (1972).

Recorded from: on and under rocks near penguin rookery; among stones, moss and soil below a snow patch; under stones on soil.

Stereotydeus delicatus Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: among stones.

Stereotydeus intermedius (Trouessart, 1907)*Penthalodes intermedius* Trouessart, 1907

Description: Trouessart (1907a).

Recorded from: moss.

Stereotydeus longipes Strandtmann, 1970

Description: Strandtmann (1970).

Recorded from: under rocks, among tussock grass near beach; on seashore under rotting wood, stones, in rock crevices and tidal debris.

Stereotydeus meyeri Strandtmann, 1967

Description: Strandtmann (1967).

No habitat data provided.

Stereotydeus mollis Womersley and Strandtmann, 1963

Description: Womersley and Strandtmann (1963).

Recorded from: among mosses, lichens and algae, under rocks, among sand, soil and stones.

Stereotydeus nudiseta Strandtmann, 1964

Description: Strandtmann (1964).

Recorded from: among low plants, mosses and lichens.

Stereotydeus pulcher Strandtmann, 1964

Description: Strandtmann (1964).

Recorded from: among mosses and lichens on rocks.

Stereotydeus punctatus Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: under stones on rock debris, among mosses, lichens and on bare ground.

Stereotydeus reticulatus Strandtmann, 1970

Description: Strandtmann (1970).

Recorded from: rock crevices, on moss and rocks, under stones, among tussock grass. Sea level to +400 m.

Stereotydeus shoupi Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: under stones, on soil and moss.

Stereotydeus undulatus Strandtmann, 1964

Description: Strandtmann (1964).

Recorded from: tussock grass leaf mould, among mosses and lichens on rocks.

Stereotydeus villosus (Trouessart, 1903)*Penthaleus villosus* Trouessart, 1903*Tectopenthalodes villosus**Stereotydeus* (*Tectopenthalodes*) *villosus**Stereotydeus villosus*

Descriptions: Womersley and Strandtmann (1963), Strandtmann (1967).

Recorded from: among lichens and rocks, mosses; under stones and grass roots.

Family: *RHAGIDIIDAE* Oudemans, 1902

Keys: Womersley and Strandtmann (1963) (*Coccorhagidia*), Strandtmann (1971) (*Rhagidia*).

Coccorhagidia gressitti Womersley and Strandtmann, 1963

Description: Womersley and Strandtmann (1963).

Recorded from: among stones, algae, soil, 'feather boluses' (= boli), in southern skua (*Catharacta macckormicki*) rookery.

Coccorhagidia keithi Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: under stones and in soil.

***Coccorhagidia* sp.**

Listed in: Wise (1964).

No habitat data provided.

Rhagidia gerlachei (Trouessart, 1903)

Norneria gigas subsp. *gerlachei* Trouessart, 1903

Rhagidia racovitzai Trägårdh, 1907

Rhagidia gigas Canestrini

Rhagidia gerlachei

Descriptions: Womersley and Strandtmann (1963), Strandtmann (1970).

Recorded from: under stones and mosses, running over mosses, in rock crevices, among tussock grass, in nest material of white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*); on seashore under rocks and in tidal debris.

Rhagidia kerguelensis (Cambridge, 1876)

Poecilophysis kerguelensis Cambridge, 1876.

Description: Strandtmann and Davies (1972).

Recorded from: among mosses (*Rhacomitrium*) and *Blechnum* on peat, tufts of *Deschampsia* in pockets of mineral soil on fellfield, among tussock grass and *Azorella* on peat.

Rhagidia leechi Strandtmann, 1963

Description: Womersley and Strandtmann (1963).

Recorded from: on scree; among tussock grass and leaf litter; under rocks, moss and under wood.

Rhagidia macquariensis Womersley and Strandtmann, 1963

Description: Womersley and Strandtmann (1963).

Recorded from: among tussock grass roots, *Colobanthus*, *Pleurophyllum* debris.

Rhagidia mildredae Strandtmann, 1964

Description: Strandtmann (1964).

Recorded from: among *Colobanthus*, *Drachophyllum* litter, on rocks, moss and leaf mould; under rocks in the upper littoral zone.

***Rhagidia* sp.**

Listed in: Strandtmann (1964).

Recorded from: moss and lichens.

Superfamily: *HALACAROIDEA*

Family: *HALACARIDAE* Murray, 1877

Keys: Newell (1984), Bartsch (in press).

Subfamily: *COPIDOGNATHINAE* Barsch, 1983

Copidognathus acanthophorus Viets, 1950

Copidognathus (Copidognathopsis) acanthophorus Viets, 1950

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 12 to 13 m, among algae, bryozoans and brachiopods; between small algal bunches and colonial animals.

Copidognathus arnaudi Newell, 1984

Description: Newell (1984).

Recorded from: 50 to 75 m and 370 m on hydroids and sponges; kelp holdfasts at 12 m.

Copidognathus confusus Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 13 to 152 m on bryozoans and algae; among kelp holdfast tidal debris. Adapted to penetrating small interstices.

Copidognathus crypticus Newell, 1984

Description: Newell (1984).

Recorded from: 15 m on holdfasts of *Macrocystis* kelp.

Copidognathus floridus Trouessart, 1914

Copidognathus (Copidognathopsis) floridus Viets, 1927

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: sponge (*Homaxinella supratumescens*), alga (*Desmarestia menziesi*) and holdfast of *Phyllogigas grandifolius* at 31 m.

Copidognathus hureaui Newell, 1984

Description: Newell (1984)

Recorded from: 15 m on holdfasts of *Macrocystis pyrifera*.

Copidognathus johnstoni (Womersley, 1937)

Werthella johnstoni Womersley, 1937

Description: Womersley (1937).

Recorded from: in gut of weddell seal (*Leptonychotes weddelli*); but this species is not recorded from later studies (Newell, 1984; Bartsch, 1992) and may not be a valid species.

Copidognathus kerguelensis (Lohmann, 1907)

Halacarus (Copidognathus) kerguelensis Lohmann, 1907

Copidognathus (Copidognathopsis) kerguelensis

Copidognathus (Copidognathopsis) kerguelenensis [sic.] André, 1933

Description: Newell (1984).

Recorded from: algae in shallow water.

Copidognathus marcandrei Viets, 1956

Copidognathus (Copidognathopsis) marc-andrei Viets, 1950

Copidognathus Marc-Andrei Dalenius, 1965

Copidognathus marc-andrei

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 22 m on algae and mud.

***Copidognathus porosus* Newell, 1984**

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 13 m, among brachiopod shells, algae and mud.

***Copidognathus simonis* (Lohmann, 1907)**

Halacarus (Copidognathus) simonis Lohmann, 1907

Description: Newell (1984).

Recorded from: littoral algae, shells and worm tubes; also from sub-littoral among ascidians. Record may be a contaminant (Newell, 1984).

***Copidognathus vanhoefferi* (Lohmann, 1907)**

Copidognathus (Copidognathus) vanhoeffeni Lohmann, 1907

Copidognathus vanhoeffeni

Copidognathus liouvillei Trouessart, 1914

Copidognathus (Copidognathopsis) liouvillei

Copidognathus (Copidognathopsis) vanhoeffeni

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 46 to 500 m, associated with ascidians, bryozoans and sponges.

***Copidognathus ypsilophorus* Newell, 1984**

Halacarus (Copidognathus) oculatus Lohmann, 1907

nec. *Halacarus oculatus* Hodge, 1863

Copidognathus oculatus

Description: Newell (1984).

Recorded from: 15 m on holdfasts of *Macrocystis* kelp.

***Werthella eltanini* Newell, 1984**

Description: Newell (1984).

Recorded from: 92 to 113 m, on unrecorded or unknown substrata.

***Werthella lohmanni* Newell, 1984**

Werthella parvirostris Lohmann, 1907

Copidognathus parvirostris

Description: Newell (1947a, 1984).

Recorded from: 15 m on *Macrocystis* kelp.

***Werthella terra* Bartsch, 1979**

Description: Bartsch (1979).

Recorded from: 95 m on muddy sand.

***Werthella terrella* Bartsch (in press)**

Description: Bartsch (in press).

Recorded from: the sublittoral, on unrecorded or unknown substrata.

Subfamily: *HALACARINAE* Viets, 1927

***Agaue agauoides* (Lohmann, 1907)**

Halacarus (Polymela) agauoides Lohmann, 1907

Leptospathis agauoides

Agaue debilis v. *consobrina* André, 1933

Agaue consobrina

Description: Newell (1984), Bartsch (in press).

Recorded from: 30 to 385 m, probably epizooic.

Agaue hamiltoni Womersley, 1937

Description: Newell (1984).

No habitat data provided.

Agaue obscura Bartsch, 1987

Descriptions: Bartsch (1987, in press).

Recorded from: 70 to 350 m on soft substrata—'flocculent surface sediment'.

Agaue parva (Chilton, 1883)*Halacarus parvus* Chilton, 1883*Leptospathis Bouvieri* Trouessart, 1907*Halacarus (Polymela) occultus* Lohmann, 1907*Leptospathis (Polymela) occultus**Halacarus (Polymela) bowieri**Halacarus (Polymela) pilosus* Gimbel, 1919*Agaue pilosa* Viets, 1931*Agaue occultus**Agaue occultus* var. *setifer* Womersley, 1937*Agaue parva womersleyi* Viets, 1950*Agaue affinis* Sokolov, 1962

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: the littoral zone to 1061 m, epibenthic also on kelp holdfasts, bryozoans and hydrozoans.

Agaue setalis Newell, 1984

Description: Newell (1984).

Recorded from: 124 to 128 m, on unrecorded or unknown substrata.

Agaue tenuirostris (Lohmann, 1907)*Halacarus (Polymela) tenuirostris* Lohmann, 1907*Leptospathis scriptor* Trouessart, 1907*Leptospathis tenuirostris**Agaue scriptor* Viets, 1931*Agaue scriptor* (syn. *A. tenuirostris*) Viets, 1940*Agaue longissima* Sokolov, 1962

Description: Newell (1984), Bartsch (in press).

Recorded from: 20 to 622 m, epibenthic and epizooic.

Agaue uncinata Bartsch, 1990

Description: Bartsch (1990, in press).

Recorded from: 342 to 360 m, on soft sediments, such as flocculent deposits.

Agaue verrucosa Bartsch, 1982

Descriptions: Newell (1984), Bartsch (1982, in press).

Recorded from: 1200 to 2700 m, on soft sediments such as flocculent deposits.

Agaue villosa (Lohmann, 1907)*Halacarus (Polymela) villosus* Lohmann, 1907*Leptospathis villosus**Agaue villosus*

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 310 to 385 m, on muddy substratum with sponges and rocks.

***Agaue* sp.**

Listed in: Bartsch (1979)

Recorded from: 95 m on muddy sand.

***Agauopsis antarctica* (Lohmann, 1907)**

Agaue antarctica Lohmann, 1907

Agaue polaris Lohmann, 1907

Agaue veles Trouessart, 1907b

Agauopsis veles

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 20 to 46 and 385 to 460 m, among haptera of *Macrocystis* kelp, benthos and littoral algae.

***Agauopsis costatus* Newell, 1971**

Descriptions: Newell (1971, 1984).

Recorded from: 550 to 590 m, on unrecorded or unknown substrata.

***Agauopsis delicatus* Newell, 1971**

Descriptions: Newell (1971, 1984).

Recorded from: 170 to 160 m, on unrecorded or unknown substrata.

***Agauopsis glacialis* Bartsch (in press)**

Description: Bartsch (in press).

Recorded from: the shallow sublittoral among hapteres, algal bunches and colonial organisms.

***Agauopsis inflatus* Newell, 1984**

Description: Newell (1984).

Recorded from: *Macrocystis* (kelp) holdfasts; sand and shells between rocks; on littoral *Porphyra*.

***Agauopsis mccaini* Newell, 1984**

Descriptions: Newell (1984); Bartsch (in press).

Recorded from: shallow sublittoral scrub algae and bryozoans.

***Agauopsis paulensis* (Lohmann, 1907)**

Agaue microrhyncha var. *paulensis* Lohmann, 1907

Agaue microrhyncha paulensis

Description: Newell (1984).

Recorded from: 'on shore', on unrecorded or unknown substrata.

***Agauopsis racki* Newell, 1984**

Description: Newell (1984).

Recorded from: 250 to 570 m, in small (rock?) crevices.

***Bradyagaue aspidionis* Newell, 1984**

Descriptions: Newell (1984); Bartsch (in press).

Recorded from: 1442 to 1444 m, on stoloniferous hydrozoans.

***Bradyagaue crassa* Bartsch, 1990**

Descriptions: Bartsch (1990, in press).

Recorded from: 350 m on stoloniferous organisms.

Bradyagaue drygalskii* (Lohmann, 1907)Halacarus (Polymela) drygalskii* Lohmann, 1907*Leptospathis alberti antarctica* Trouessart, 1907a*Leptospathis drygalskii**Leptospathis (Polymela) drygalskii**Agauae alberti antarctica* Viets, 1931*Agauae drygalskii**Halacarus (Halacarus) drygalskii**Bradyagaue alberti drygalskii*

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 62 to 1674 m, on mud, muddy sand, sand with gravel, gravel, stolons of hydroids and in the sublittoral on holdfasts of *Durvillea* kelp; also from 'other various habitats'.***Halacarellus arnaudi* (Newell, 1984)***Thalassarachna arnaudi* Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 50 to 460 m, and from 'shallow water', on *Phyllogigas grandifolius*, and rocks covered with the algae *Desmarestia* and *Plocamium*.***Halacarellus auster* Bartsch, 1990**

Descriptions: Bartsch (1990, in press).

Recorded from: 9 to 60 m, on unrecorded or unknown substrata.

Halacarellus bouvieri* (Trouessart, 1914)Werthella Bouvieri* Trouessart, 1914*Copidognathus bouvieri**Thalassarachna bouvieri*

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 6 and 22 m, amongst tufts and hapteres of algae, sponges and colonial animals.

Halacarellus decipiens* (Newell, 1984)Thalassarachna decipiens* Newell, 1984

Description: Newell (1984).

Recorded from: 113 to 92 m, on unrecorded or unknown substrata.

Halacarellus eltanini* (Newell, 1984)Thalassarachna eltanini* Newell, 1984

Description: Newell (1984).

Recorded from: 439 m, on unrecorded or unknown substrata.

Halacarellus georgiensis* (Newell, 1984)Halacarus (Halacarellus) novus* Viets, 1950*Halacarus novus* Dalenius, 1965*Thalassarachna georgiensis*

Descriptions: Viets (1950), Newell (1984).

Recorded from: 22 m, among algae.

***Halacarellus glaber* Bartsch, 1990**

Description: Bartsch (1990, in press).

Recorded from: 93 to 121 m, epibenthic and epizooic.

Halacarellus harioti* (Trouessart, 1898)Halacarus Harioti* Trouessart, 1889*Halacarus* (*spinifer*-Gruppe) *Harioti* Lohmann, 1893*Halacarus armatus* Kramer, 1898*Halacarus* (*Halacarellus*) *Balticus harioti* var. *kerquelensis* Lohmann, 1907*Halacarus* (*Halacarus*) *harioti**Halacarus* (*Hal.*, *Balticus*-Gruppe) *harioti* forma *typica* Lohmann, 1907*Halacarus Halacarus harioti kerquelensis* Trouessart, 1907*Halacarus* (*Halacarellus*) *harioti harioti**Halacarus* (*Halacarellus*) *harioti kerquelensis* Viets, 1927*Halacarus* (*Halacarellus*) *armatus* Viets, 1939*Halacarus* (*Halacarellus*) *harioti**Halacarus* (*Halacarellus*) *uschakovi* Sokolov, 1962*Halacarus harioti* var. *kerquelensis* Dalenius, 1965*Thalassarachna harioti* Newell, 1984*Thalassarachna kerquelensis* Newell, 1984*Thalassarachna uschakovi* (Sokolov) Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: the littoral and shallow sublittoral, among coarse sediments, barnacles, *Mytilus* sp. and red algae.***Halacarellus heteroculus* (Newell, 1984)***Thalassarachna heteroculus* Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 6 and 22 m, on the surface of sediments and among algal tufts.

***Halacarellus lubricellus* Bartsch, 1990**

Descriptions: Bartsch (1990, in press).

Recorded from: 300 m, epizooic on colonial animals.

Halacarellus novior* (Lohmann, 1907)Halacarus* (*Halacarus*) (*Artengruppe Balticus*) *novior* Lohmann*Halacarus novior**Halacarus* (*Halacarellus*) *novior**Thalassarachna novior*

Description: Newell (1984).

Recorded from: in shallow water, on unrecorded or unknown substrata.

Halacarellus novus* (Lohmann, 1907)Halacarus* (*Halacarus*) *novus* Lohmann, 1907*Halacarus novus**Halacarus* (*Halacarellus*) *novus**Halacarus* (*Halacarellus*) *nudipelliger* André, 1933*Thalassarachna novus*

Description: Newell (1984).

Recorded from: 15 m, on holdfasts of *Macrocystis* kelp; also littoral and sublittoral on unrecorded or unknown substrata.***Halacarellus parillis* Bartsch, 1979**

Description: Bartsch (1979)

Recorded from: 95 m on muddy sand.

Halacarellus thomasi (Newell, 1984)

Thalassarachna thomasi Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 200 to 460 m, on unrecorded or unknown substrata.

Halacarellus porrellus sp. nov. no. 1 Bartsch and Pugh (in preparation)

Description: Bartsch and Pugh (in preparation).

Recorded from: littoral crevices.

Halacarellus novellus sp. nov. no. 2 Bartsch and Pugh (in preparation)

Description: Bartsch and Pugh (in preparation).

Recorded from: littoral algae (*Adenocystis* and *Gigartina*), crevices and *Durvillea* kelp holdfasts in the extreme lower littoral.

Halacarus arnaudi Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 370 m and the shallow sublittoral, epibenthic on hydrozoans, between kelp holdfasts.

Halacarus sp. C Bartsch (in press as *cucullatus*)

Description: Bartsch (in press).

Recorded from: the shallow sublittoral, on unrecorded or unknown substrata.

Halacarus elegans Newell, 1984

Description: Newell (1984).

Recorded from: At 415 m, on unrecorded or unknown substrata.

Halacarus excellens Lohmann, 1907

Halacarus (*Halacarus*) *excellens* Lohmann, 1907

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 35 m, on surface of sediments.

Halacarus falklandensis Newell, 1984

Halacarus (*Halacarus*) *actenos robustus* Viets, 1950

Description: Newell (1984).

Recorded from: 22 m, on unrecorded or unknown substrata.

Halacarus gracile-ungiculatus¹ Lohmann, 1907

Halacarus (*Halacarus*) *gracile-ungiculatus*¹ Lohmann, 1907

Description: Newell (1984).

Recorded from: 15 m on *Macrocystis* kelp holdfasts.

Halacarus hemispinosus Newell, 1984

Description: Newell (1984).

Recorded from: at 88 to 278 m, on unrecorded or unknown substrata.

¹ The use of a hyphen within a specific name is illegitimate under ICZN rules, but its removal would, in this case, destroy the correct pronunciation; while inserting a blank space would suggest separate species and subspecies, which is technically incorrect. The original name has been retained *in lieu* of a suitable revision.

***Halacarus laterculatus* Viets, 1950**

Halacarus (Halacarus) laterculatus Viets, 1950

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: low water to 120 m, on sand, gravel, broken shells, barnacles and coralline algae.

***Halacarus minor* Lohmann, 1907**

Halacarus (Halacarus) minor Lohmann, 1907

Halacarus (Halacarus) latirostris Gimbel, 1919

Halacarus latirostris

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 46 to 385 m, on the surface of sediments.

***Halacarus nanus* Gimbel, 1919**

Halacarus (Halacarus) nanus Gimbel, 1919

Halacarus (Halacarus) nanus nanus

Descriptions. Newell (1984), Bartsch (in press).

Recorded from: 350 to 385 m, on soft sediments.

***Halacarus* sp. *O* Bartsch (in press as *otiosus*)**

Description: Bartsch (in press).

Recorded from: 250 m, among washings of crinoids, within scrub algae.

***Halacarus* sp. *P* Bartsch (in press as *parmatus*)**

Description: Bartsch (in press).

Recorded from: 300 m on unrecorded or unknown substrata.

***Halacarus profundus* Newell, 1984**

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 2212 to 1306 m, on soft sediments.

***Halacarus propinquus* Viets, 1940**

Halacarus (Halacarus) lohmanni Womersley, 1937

nec. *Halacarus (Cupidognathus) lohmanni* Trouessart, 1889

Halacarus nanus propinquus Viets, 1940

Halacarus (Halacarus) nanus propinquus

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 46 m, on unrecorded or unknown substrata.

***Halacarus robustus* Lohmann, 1907 *sensu* Newell, 1984**

Halacarus actenos Trouessart, 1889

Halacarus actenos Trouessart var *robusta* Lohmann, 1907

Halacarus actenos v. *robustus* Lohmann, 1907

Halacarus (Halacarus) actenos robustus

Description: Newell (1984).

Recorded from: 79 to 278 m on muddy sand and unrecorded or unknown substrata, also at 15 m on holdfasts of *Macrocystis* kelp.

***Halacarus setifer* Newell, 1984**

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 148 m, on soft substrata.

Halacarus validus* Gimbel, 1919Halacarus (Halacarus) validus* Gimbel, 1919

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 350 to 385 m, on surface of substratum.

Halacarus werthi* Lohmann, 1907Halacarus (Halacarus) werthi* Lohmann, 1907*Halacarus (Halacarus) werthii* [sic.] Police, 1909

Description: Newell (1984).

Recorded from: 'shallow water' on algae and tubiculous polychaetes.

***Halacarus* sp.**

Listed in: Banks (1914).

No habitat data given.

Mictognathus werthelloides* Newell, 1971Copidognathus* sp. Womersley, 1937*Copidognathus (Copidognathus)* sp. Viets, 1950

Descriptions: Newell (1984); Bartsch (in press).

Recorded from: 13 m, on algae and bryozoans.

Subfamily: *LOHMANNELLINAE* Viets, 1927***Lohmannella antarctica* Newell, 1984**

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: shallow water to 460 m, in crevices between algal hapteres and colonial animals; also from *Phyllogigas grandifolius* stranded in tidal debris.***Lohmannella bihamata* Viets, 1950**

Description: Newell (1984)

Recorded from: crevices and algae in the extreme lower littoral.

***Lohmannella consimilis* Bartsch (in press)**

Description: Bartsch (in press).

Recorded from: 100 m, on unrecorded or unknown substrata.

Lohmannella falcata* (Hodge, 1863)Leptognathus falcatus* Hodge, 1863*Leptognathus marinus* Lohmann, 1889*Trouessartia falcata**Lohmannella falcata falcata*

Descriptions: Newell (1947, 1984).

Recorded from: upper littoral algae, and bryozoans and sponges at 385 m. This species is also recorded from the Atlantic Ocean. The Antarctic records are questionable.

***Lohmannella fukushimai* Imamura, 1968**

Descriptions: Imamura (1986), Newell (1984).

Recorded from: 190 to 800 m on soft sediments.

Lohmannella gaussi* Lohmann, 1907Lohmannella humerosa* Newell, 1984

Descriptions: Newell (1984), Bartsch (1979, in press).

Recorded from: 95 to 385 m, on surface sediments of muddy sand.

Lohmannella grandipora Newell, 1984

Description: Newell (1984).

New record from: lower to upper littoral among coarse shell fragments between rocks, under stones and among *Macrocystis* kelp holdfasts washed up onto the shore.

Lohmannella hureaui Newell, 1984

Description: Newell (1984).

Recorded from: (the lower littoral/shallow sublittoral) on holdfasts of *Durvillea* kelp.

Lohmannella kerguelensis Lohmann, 1907

Lohmannella gaussi var. Lohmann, 1907a

Lohmannella gaussi var. *kerguelensis* Lohmann, 1907b

Descriptions: Newell (1984); Bartsch (in press).

Recorded from 49 to 58 m, among colonial organisms and algal tufts.

Lohmannella reticulata Viets, 1950

Description: Newell (1984).

No habitat data provided.

Subfamily: *SIMOGNATHINAE* Viets, 1927

Simognathus magellanicus Newell, 1984

Simognathus sculptus Viets, 1952

nec. *Simognathus sculptus* Brady, 1875

Description: Newell (1984).

Recorded from: 88 to 278 m, on unrecorded or unknown substrata; lower littoral barnacle/coralline red alga associations, brown and green algae attached to *Mytilus* shells and in kelp holdfasts cast up on shore by storms.

Subfamily: *RHOMBOGNATHINAE* Viets, 1927

Isobactrus macquariensis Newell, 1984

Description: Newell (1984).

Recorded from: the seashore plant *Colobanthus*. This is an artifact, probably blown inland from littoral algae.

Isobactrus magnus (Lohmann, 1907)

Rhombognathus magnus Lohmann, 1907

Description: Newell (1984).

Recorded from: littoral algae.

Isobactrus microdens Newell, 1984

Description: Newell (1984).

Recorded from: littoral crevice, in sediment.

Rhombognathus adeliensis Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: on stranded *Phyllogigas grandifolius*, and from the shallow sublittoral on unrecorded or unknown substrata.

Rhombognathus ambiguus Newell, 1984

Descriptions: Newell (1984), Bartsch (1992).

Recorded from: 20 m on red algae

Rhombognathus apsteini Lohmann, 1907

Description: Newell (1984).

Recorded from: the lower littoral on *Durvillea* kelp.***Rhombognathus auster*** Bartsch, 1989

Description: Bartsch (1989).

Recorded from: littoral algae and crevice fringes.

Rhombognathus gressitti Newell, 1967*Rhombognathus magnirostris lionyx* Trouessart, 1914.

Descriptions: Newell (1967, 1984).

Recorded from: littoral algae, on and beneath stones.

Rhombognathus multisetosus Newell, 1984

Description: Newell (1984).

Recorded from: kelp holdfasts and among artificial colonization substrata.

Rhombognathus plumifer Trouessart, 1989

Description: Newell (1984).

Recorded from: littoral alga and among artificial colonization substrata.

Rhombognathus sandwichi Newell, 1984

Descriptions: Newell (1984), Bartsch (in press).

Recorded from: 148 m on algae; an unusual depth for a rhombognathine, possibly a dislodged specimen.

Superfamily: *TYDEOIDEA*Family: *EREYNETIDAE* Oudemans, 1931***Ereynetes macquariensis*** Fain, 1962*Ereynetes (Gymnereynetes) macquariensis* Fain, 1962

Descriptions: Fain (1962), Strandtmann (1970), Watson (1967).

Recorded from: nest of white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*), old gulls' nests, among moss and lichens, in soils; *Colobanthus*, *Rhizoclonium* (alga) and littoral algae (*Porphyra*).***Ereynetes* sp. no. 1 (*macquariensis*?)**

Description: Strandtmann (1964).

Recorded from: *Dracophyllum* leaf mould.***Ereynetes* sp. no. 2**

Listed in: Strandtmann and Davies (1972).

No habitat data given.

Ereynetoides watsoni Fain, 1962

Description: Fain (1962).

Recorded from: *Stilbocarpus* litter.Family: *TYDEIDAE* Kramer, 1877

Diagnosis and keys: Usher and Edwards (1986a) (maritime Antarctica).

Most of the early records are listed under genus *Tydeus*, though more recently

described species, together with those re-examined, have been ascribed to a number of new genera (André, 1980). The generic status of the older records needs to be re-appraised with reference to these 'new' tydeid genera.

Apotriophydeus penola Usher and Edwards, 1986

Description: Usher and Edwards (1986).

Recorded from: extracts of fellfield material.

Apotriophydeus scotiae Usher and Edwards, 1986

Description: Usher and Edwards (1986).

Recorded from: extracts of fellfield material and *Drepanocladus* moss.

Apotriophydeus terror Usher and Edwards, 1986

Description: Usher and Edwards (1986).

Recorded from: extracts of fellfield material.

***Apotriophydeus* sp.**

Listed in: Usher and Edwards (1984).

Recorded from: *Deschampsia* sward litter.

Lorryia leptonychotes Womersley, 1937

Description: Womersley (1937).

Recorded from: 'among cestodes in a weddell seal' (*Leptonychotes weddelli*) (Dalenius, 1965). Probably a dislodged specimen.

Lorryia polaris Womersley, 1937

Description: Womersley (1937).

Recorded from: 19 to 20 fathoms (27–37 m), probably a dislodged specimen.

***Lorryia* sp.**

Listed in: Strandtmann (1964).

Recorded from: *Colobanthus* at 200 m altitude.

Paratiophydeus dubius Usher and Edwards, 1986

Description: Usher and Edwards (1986b).

Recorded from: extracts of *Chorisodontium*/*Polytrichum* moss turf.

Paratydeolus enigmaticus Usher and Edwards, 1986

Description: Usher and Edwards (1986).

Recorded from: fellfield and extracts of *Chorisodontium*/*Polytrichum* moss turf.

***Paratydeolus* sp.**

Listed in: Usher (1986).

Recorded from: *Deschampsia* sward litter.

Pretriophydeus tilbrooki (Strandtmann, 1967)

Tydeus tilbrooki Strandtmann, 1967

Descriptions: Strandtmann (1967, 1970), Usher and Edwards (1986a), Dastych (1990).

Recorded from: lichens, mosses, under rocks, gull's nest.

Tydeus antipodus Womersley, 1937

Description: Womersley (1937).

Recorded from: littoral seaweeds.

Tydeus erebus Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: among rocks, gravel and in snow petrel nest.

Tydeus setsukoe Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: soil under rocks; under a dead penguin; among lichens and algae.

Tydeus wadei Strandtmann, 1967

Description: Strandtmann (1967).

Recorded from: among scoria with algae and under a dead penguin.

Tydeus wilkesi Strandtmann, 1967

Description: Strandtmann (1967).

No habitat data given.

***Tydeus* sp. no. 1**

Listed in: Watson (1967).

Recorded from: grassland.

***Tydeus* sp. no. 2**

Listed in: Strandtmann and Davies (1972).

No habitat data given.

Superfamily: *BDELLOIDEA*Family: *BDELLIDAE* Duges, 1834

Keys: Atyeo (1963) (Australasian Sector), Atyeo (1964) (Campbell I.), Wallace (1970) (Southern Ocean).

***Bdella symmetrica* ? Kramer**

Listed in: Banks (1914).

No habitat given.

***Bdella* sp.**

New record from: under stones, among lichens and on whalebone in the supralittoral.

Bdellodes flexosus Atyeo, 1963*Bdellodes (Hoploscirus) flexosus* Atyeo, 1963

Description: Atyeo (1963).

Recorded from: among vegetation (*Colobanthus*), under stones.***Bdellodes georgianensis*** Wallace, 1970*Bdellodes (Bdellodes) georgianensis* Wallace (1970)

Description: Wallace (1970).

Recorded from: sea level to 300 m, under rocks and in crevices, among mosses and lichens.

Bdellodes gressitti Atyeo, 1964*Bdellodes (Hoploscirus) gressitti* Atyeo, 1964

Description: Atyeo (1964).

Recorded from: among moss and an albatross nest.

***Bdellodes macquariensis* Atyeo, 1963**

Bdellodes (Hoploscirus) macquariensis Atyeo, 1963

Description: Atyeo (1963), Wallwork (1973).

Recorded from: among leaf (fern and *Stilbocarpus*) litter, mosses, soil, vegetation (*Colobanthus* and *Azorella*), and from white-headed petrel (*Pterodroma lessoni*) burrow.

***Bdellodes multicia* Atyeo, 1963**

Bdellodes (Hoploscirus) multicia Atyeo, 1963

Description: Atyeo (1963).

Recorded from: under vegetation.

***Bdellodes petila* Atyeo, 1963**

Bdellodes (Hoploscirus) petila Atyeo, 1963

Description: Atyeo (1963).

Recorded from: the seashore under rocks at the high tide mark.

***Bdellodes rachia* Wallace, 1970**

Bdellodes (Hoploscirus) rachia Wallace, 1970

Description: Wallace (1970).

Recorded from: under rocks on beach and in penguin rookery.

***Bdellodes watsoni* Atyeo, 1963**

Bdellodes (Hoploscirus) watsoni Atyeo, 1963

Description: Atyeo (1963).

Recorded from: dead *Poa* roots, vegetation debris and among green algae on rocks in a penguin rookery.

***Bdellodes* sp. no. 1**

Listed in: Wallace (1970).

Recorded from: moss and *Acaena* from sea level to 150 m.

***Bdellodes* sp. no. 2**

Listed in: Strandtmann and Davies (1972).

No habitat data given.

***Bdellodes* sp. no. 3**

New record from: supralittoral crevices; under stones, on whalebone and among lichens.

***Scirus pallidus* (Pickard-Cambridge, 1876)**

Bdella pallida Pickard-Cambridge, 1876

Description: Cambridge (1876)

Recorded from: 'among dry localities'.

***Spinibdella antarctica* (Trägårdh, 1907)**

Bdella antarctica Trägårdh, 1907

Descriptions: Trägårdh (1907); Thor (1931).

Recorded from: on rocks; in the supralittoral among tidal debris and under stones.

Superfamily: *PYEMOTOIDEA*

Family: *PYEMOTIDAE* Oudemans (1937)

Key: Cross (1970).

Bakerdania antarcticus (Mahunka, 1967)

Pygmephorus sp. Tilbrook, 1973

Description: Mahunka (1967).

Recorded from: bird nests and burrows.

Bakerdania equisetosa Cross, 1970

Description: Cross (1970).

Recorded from: nest material of white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*).

Bakerdania rugosa Cross, 1970

Description: Cross (1970).

Recorded from: nest material of white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*).

***Bakerdania* sp. no. 1**

Listed in: Cross (1970).

Recorded from: nest of Wilson's storm petrel (*Oceanites oceanites*).

***Bakerdania* sp. no. 2**

Listed in: Cross (1970).

Recorded from: a moss-lichen sample.

Superfamily: *PYGMEPHOROIDEA*

Family: *PYGMEPHORIDAE*

Key: Macquarie (Cross, 1964)

Neopygmephorus arvorum (Jacot, 1936)

Pygmephorus arvorum Jacot, 1936

Description: Jacot (1936).

Recorded from: *Stilbocarpus* litter and soil.

Neopygmephorus pannonicus (Willmann, 1951)

Pygmephorus pannonicus Willmann, 1951

Description: Willmann (1951).

Recorded from: *Azorella*, mosses and soil.

Neopygmephorus sellnicki (Krczal, 1958)

Pygmephorus sellnicki Krczal, 1958

Description: Krczal (1958).

Recorded from: *Stellaria* and soil.

Neopygmephorus togatus (Willmann, 1942)

Pygmephorus togatus Willmann, 1942

Description: Willmann (1942).

Recorded from: vegetation (*Azorella*), wet moss and soil.

Neopygmephorus tripartitus Cross, 1964

Description: Cross (1964).

Recorded from: vegetation, litter and soil.

***Pygmephorus* sp.**

Listed in: Holdgate and Baker (1979).

No habitat data given.

Superfamily: *TARSONEMOIDEA*

Family: *TARSONEMIDAE* Canestrini and Fanzago, 1877

***Chaetotarsonemus kerguelensis* Fain, 1976**

Description: Fain (1976).

Recorded from: 'halophilic phanaerogams'.

***Disparites antarcticus* Richters, 1908**

Description: Richters (1908).

Recorded from: mosses.

***Tarsonemus halophilus* Fain, 1976**

Description: Fain (1976).

Recorded from: on rocks, among mosses and vegetable debris near the seashore.

***Tarsonemus subantarcticus* Fain, 1976**

Description: Fain (1976).

Recorded from: mosses, lichens and humus.

Unidentified

Listed in: Watson (1967).

No habitat data provided.

Superfamily: *CHEYLETOIDEA*

Family: *CHEyleTIDAE* Leach, 1814

***Acaropsis* sp.**

Listed in: Tilbrook (1973).

No habitat data given.

***Cheyletus eruditus* (Schrank, 1781)**

Acarus eruditus Schrank, 1781

Description: Oudemans (1906).

Recorded from: Rat debris in food stores, cosmopolitan outside the Southern Ocean, probably an introduced species.

***Cheyletus* sp.**

Listed in: Tilbrook (1973).

No habitat data provided.

Family: *CHEyleTIELLIDAE* Volgin, 1966

***Cheyletiella parasitivorax* (Megnin, 1878)**

Listed in: Bull (1960)

Recorded as: ectoparasites of rabbits (*Oryctolagus cuniculus*).

Superfamily: *RAPHIGNATHOIDEA*

Family *RAPHIGNATHIDAE* Kramer, 1877

Raphignathus johnstoni Womersley, 1937

Rhagidia johnstoni (Womersley) [sic.] in Gressitt (1967).

Description: Womersley (1937).

Recorded from: on cestodes from a weddell seal (*Leptonychotes weddelli*)? (Dalenius, 1965). This must be a displaced specimen (personal observation).

Family: *STIGMAEIDAE* Oudemans, 1931

Mecognatha hirsuta Wood, 1967

Description: Wood (1967)

Recorded from: moss and lichen from tree trunk (*Dracophyllum*).

Mullederia arborea Wood, 1964

Description: Wood (1964).

Recorded from: vegetation litter (*Coprosma*).

Pseudostigmaeus collyerae Wood, 1967

Description: Wood (1967).

Recorded from: lichens on tree trunk (*Dracophyllum* and *Coprosma*).

Pseudostigmaeus longisetis Wood, 1970

Description: Wood (1970).

Recorded from: moss, algae, grass turf and mollymawk nests; and 'miscellaneous extractions'.

Pseudostigmaeus striatus Wood, 1967?

Description: Wood (1967).

No habitat data given.

Stigmaeus campbellensis Wood, 1970

Description: Wood (1970).

Recorded from: leaf mould under tussock; among moss and lichens and *Azorella*.

Superfamily: *TETRANYCHOIDEA*

Family: *TETRANYCHIDAE* Donnadieu, 1875

Bryobia praetiosa (C. L. Koch, 1836)

Torrynophora serrata Cambridge, 1876

Bryobia speciosa C. L. Koch, Kramer and Neumann, 1883

Listed in: Dalenius (1965), West (1984).

Recorded from: Under stones and wood in the supralittoral and in the terrestrial environment.

Bryobia sp.

Listed in: Strandtmann and Davies (1972).

No habitat data given.

Superfamily: *ERYTHRAEOIDEA*

Family: *ERYTHRAEIDAE* Oudemans, 1902

No previous records of this family from the Southern Ocean area, the records of *Erythraeus papageno* (Speiser, 1909) are from South Africa.

***Balaustium* sp.**

New record from: supralittoral yellow lichens.

***Erythraeus* sp. no. 1**

Listed in: Strandtmann and Davies (1972).

No habitat data given.

***Erythraeus* sp. no. 2**

New record from: supralittoral yellow lichens.

***Erythraeus* sp. no. 3**

New record from: among old tidal debris.

Family: *SMARIDIDAE* Kramer, 1878

***Neosmaris* sp.**

Listed in: West (1984).

Recorded from: among vegetation (*Festuca*).

gen. nr. ***Neosmaris* et sp.**

Listed in: Tilbrook (1967).

No habitat data given.

Superfamily: *TROMBIDOIDEA*

Family: *TROMBIDIIDAE* Leach, 1814

***Microtrombidium karriensis* Womersley, 1934**

Microtrombidium (Microtrombidium) tasmanicum Womersley, 1937

Descriptions: Womersley (1934), Strandtmann (1964).

Recorded from: mollymawk (*Diomedea*) rookery, among beach boulders, moss, leaf mould under tussock roots, penguin colony.

Family: *TROMBICULIDAE* Ewing, 1944

***Eutrombicula hirsti* (Sambon, 1927)**

Listed in: Bull (1960).

Recorded as ectoparasitic of rabbits (*Oryctolagus cuniculus*), possibly an introduced species.

Order: SARCOPTIFORMES

Suborder: CRYPTOSTIGMATA (=ORIBATIDA)

Keys and diagnoses to superfamilies (Krantz, 1978); to families and genera (Balogh, 1972); to some species from the Peninsula (Wallwork, 1965) and Antarctica (Wallwork, 1967).

Superfamily: *ARCHEONOTHROIDEA*

Family: *ARCHEONOTHRIDAE* Grandjean, 1932

Andacarus campbellensis Wallwork, 1966

Description: Wallwork (1966).

Recorded from: moss.

Andacarus macfarlani Grandjean

Listed in Travé (1976a, 1976b).

No habitat data given.

Andacarus watsoni Travé, 1964

Descriptions: Travé (1964); Watson (1967).

Recorded from: moss.

Superfamily: *PHTHIRACAROIDEA*

Family: *PHTHIRACARIDAE* Perty, 1841

Neophthiracarus neotrichus Wallwork, 1966

Description: Wallwork (1966b).

Recorded from: moss.

Superfamily: *BRACHYCHTHONOIDEA*

Family: *BRACHYCHTHONIIDAE* Balogh, 1943

Eobrachythonius oudemansi van der Hammen, 1952

Eobrachythonius argentinensis van der Hammen, 1958

Description: van der Hammen (1952).

Recorded from: *Acaena*.

Eobrachythonius sp. (possibly nymph of *E. oudemansi*?)

Listed in: Wallwork (1967).

No habitat data given.

Liochthonius australis Covarrubias, 1968

Description: Covarrubias (1968).

Recorded from: isolated patches of moss growing on stones on soil.

Liochthonius fimbriatissimus (Hammer, 1958)

Description: Hammer (1958).

Recorded from: moss.

Liochthonius mollis (Hammer, 1958)

Brachychthonius mollis Hammer, 1958

Descriptions: Hammer (1958), Wallwork (1966b, 1967)

Recorded from: vegetation (*Acaena*).

Liochthonius sp.

Listed in: Wallwork (1966).

Recorded from: vegetation (*Acaena*).

Superfamily: *NOTHROIDEA*

Family: *CROTONIIDAE* Thorell, 1876

Crotonia brevicornutus (Wallwork, 1966)

Acronothrus brevicornutus Wallwork, 1966

Description: Wallwork (1966b).

Recorded from: moss and mollymawk (*Diomedea* sp.) nest.

Holonothrus concavus Wallwork, 1966

Description: Wallwork (1966b).

Recorded from: moss.

Holonthrus foliatus Wallwork, 1963

Description: Wallwork (1963).

Recorded from: among vegetation (*Stilbocarpus*, *Azorella*, lichens and mosses) and litter.

Family: *CAMISIIDAE* Oudemans, 1900

Camisia segnis (Hermann, 1804)

Nothrus segns Hermann, 1804

Listed in: Wallwork (1970, 1972).

Recorded from: moss.

Camisia sp.

New record from: supralittoral tidal debris.

Platynothrus skottsbergii Trägårdh, 1931 (= *P. s. expansus*?)

Description: Trägårdh (1931).

Recorded from: moss and vegetation.

Platynothrus skottsbergii expansus Wallwork, 1966

Description: Wallwork (1966b).

Recorded from: *Acaena* and the moss *Sphagnum*.

MALACONOTHRIDAE Berlese, 1916

Trimalaconothrus flagelliformis Wallwork, 1970

Description: Wallwork (1970a).

Recorded from: (usually damp) moss.

Superfamily: *HERMANNIELLOIDEA*

Family: *HERMANNIELLIDAE* Grandjean, 1934

Hermanniella sp.

Listed in: van Pletzen and Kok (1971).

Recorded from: old *Poa* inflorescence.

Superfamily: *GYMNODAMAEIODEA*

Family: *GYMNODAMAEIDAE* Grandjean, 1954

***Allodamaeus* sp.**

Listed in: Travé (1976).

No habitat data given.

Family: *PLATEREMAEIDAE* Trägårdh, 1931

***Pheroliodes australis* (Hammer, 1962)**

Pedrocortesia australis Hammer, 1962

Descriptions: Hammer (1962), Wallwork (1966b).

No habitat data given.

***Pheroliodes* sp.**

Listed in: Travé (1976).

No habitat data given.

Superfamily: *LIACAROIDEA*

Family: *METRIOPPIIDAE* Balogh, 1943

***Macquarioppia striata* (Wallwork, 1963)**

Macquariella striata Wallwork, 1963

Description: Wallwork (1963).

Recorded from: algae on coastal rocks and mosses.

Superfamily: *CARABODOIDEA*

Family: *CARABODIDAE* C. L. Koch, 1837

***Carabodidae* gen. et sp.**

Listed in: Tilbrook (1967).

Recorded from: lichens.

Superfamily: *OPPIOIDEA*

Family: *OPPIIDAE* Grandjean, 1954

***Globoppia campbellensis* Wallwork, 1964**

Description: Wallwork (1964a).

Recorded from: mosses.

***Globoppia gressitti* Wallwork, 1964**

Description: Wallwork (1964a).

Recorded from: mosses.

***Globoppia intermedia* Hammer, 1962**

Description: Hammer (1962).

Recorded from: base of tussock grass on beach.

***Globoppia intermedia longiseta* Wallwork, 1970**

Damaeus nitens Richters, 1908

Description: Wallwork (1970a).

Recorded from: vegetation and whalebone on top of shore, supralittoral tidal debris.

Oppia beemanensis Wallwork, 1964

Description: Wallwork (1964a).

Recorded from: mosses.

Oppia crozetensis (Richters, 1908)*Notaspis crozetensis* Richters, 1908*Oppia magellanicus* Hammer, 1962= *Oppia crozetensis anareensis* Wilson, 1958?

Descriptions: Richters (1907), Wallwork (1966a, 1967), Watson (1967).

Recorded from: bases of tussock grass on the beach, and a variety of plant litter.

Oppia crozetensis anareensis Wilson, 1958= *Oppia crozetensis* (Richters, 1908)?

Description: Dalenius and Wilson (1958).

Recorded from: *Colobanthus* cushions.***Oppia diaphora*** Wallwork, 1964

Description: Wallwork (1964a).

Recorded from: mosses.

Oppia disjuncta Wallwork, 1964

Description: Wallwork (1964a).

Recorded from: mosses.

Oppia loxolineata Wallwork, 1965*Oppia loxolineata longipilosa* Covarrubias, 1968 in Buryn and Usher (1986)

Description: Wallwork (1965); Covarrubias (1968).

Recorded from: under rocks; among mosses and lichens, the terrestrial alga *Prasiola* and bird nests.***Oppia nitens brachytrichinus*** Wilson, 1958*Damaeus nitens* Michael in Richters 1908?

Description: Dalenius and Wilson (1958).

Recorded from: mosses and lichens.

Oppia pepiptensis brevipectinata Covarrubias, 1968

Description: Covarrubias (1968).

Recorded from: the terrestrial alga *Prasiola*.***Oppia scotiae*** Wallwork, 1970

Description: Wallwork (1970a).

Recorded from: mosses.

***Oppia* sp. no. 1**

Listed in: Travé (1976a, 1976b).

Recorded from: mosses and lichens.

***Oppia* sp. no. 2**

Listed in: Travé (1981).

Recorded from: supralittoral lichens.

Superfamily: *AMERONOTHROIDEA*

Family: *PODACARIDAE* Grandjean, 1955

Alaskozetes antarcticus (Michael, 1903)

Notaspis antarctica Michael, 1903

Notaspis (Parachipteria) antarctica

Halozetes antarctica

Alaskozetes antarctica

Alaskozetes antarcticus antarcticus

Descriptions: Dalenius and Wilson (1958), Wallwork (1965, 1967), Watson (1967), Dastych (1990), Luxton (1990).

Recorded from: the littoral zone, usually among lichens and algae.

Alaskozetes antarcticus grandjeani Dalenius, 1958

Halozetes antarctica Grandjeani Dalenius, 1958

Descriptions: Dalenius and Wilson (1958), Wallwork (1963a).

Recorded from: under rocks and among a variety of vegetation; freshwater pools on cliffs; bird nests and in rookeries.

Alaskozetes antarcticus intermedius Wallwork, 1967

Description: Wallwork (1967).

Recorded from: supralittoral and terrestrial mosses, lichens and on whalebone.

Alaskozetes bovetoyaensis van Pletzen and Kok, 1971

Description: Van Pletzen and Kok (1971).

Recorded from: littoral pools rich in filamentous algae.

***Alaskozetes* sp.**

Listed in: Horne (1984).

Recorded from: ice-free vegetated areas.

Antarcticicola georgiae Wallwork, 1970

Description: Wallwork (1970).

Recorded from: supralittoral and terrestrial lichens, mosses, tidal debris and whalebone.

Antarcticicola meyeri Wallwork, 1967

Petrozetes oblongus Sitnikova, 1969

Description: Wallwork (1967)

Recorded from: lichens and mosses.

***Antarcticicola* sp. (*A. georgiae*?)**

Listed in: Bellido (1981), Travé (1981a).

Recorded from: the littoral and supralittoral zones (among lichens?).

Halozetes belgicae (Michael, 1903)

Notaspis belgicae Michael, 1903

Halozetes belgicae

Pertorgunia belgicae

Halozetes belgicae belgicae

Descriptions: Dalenius and Wilson (1958), Wallwork (1965, 1967, 1970a), Dastych (1990).

Recorded from: mosses, lichens, algae and rocks in the littoral and supralittoral zones and inland.

***Halozetes belgicae brevipilis* Wallwork, 1963**

Description: Wallwork (1963a).

Recorded from: vegetation and litter, rock crevices and penguin rookeries, especially close to the coast.

***Halozetes belgicae longiseta* Wallwork, 1967**

Description: Wallwork (1967).

Recorded from: vegetation and litter close to or on the seashore.

***Halozetes crozetensis* (Richters, 1907)**

Scutovertex crozetensis Richters, 1907

Pertorgunia crozetensis

Pertorgunia colobanthi Dalenius and Wilson, 1958

Descriptions: Dalenius and Wilson (1958), Wallwork (1963), van Pletzen and Kok (1971).

Recorded from: lichens, algae and in the littoral and supralittoral; also from sheep dung, penguin rookery debris and vegetation.

***Halozetes edwardensis* van Pletzen and Kok, 1971**

Description: van Pletzen and Kok (1971)

Recorded from: lichens and mosses; one record from tunicates is probably a dislodged specimen.

***Halozetes fulvus* Englebrecht, 1975**

Description: Englebrecht (1975).

Recorded from: soil close to the coast; among supralittoral yellow lichens.

***Halozetes impeditus* Niedbala, 1986**

Description: Niedbala (1986).

Recorded from: mosses and lichens.

***Halozetes intermedius* Wallwork, 1963**

Descriptions: Wallwork (1963a), Watson (1967).

Recorded from: 'vegetation', algae, rock crevices; soil from the seashore and coastal regions.

***Halozetes littoralis* Wallwork, 1970**

Description: Wallwork (1970a).

Recorded from: littoral and supralittoral crevices, algae and lichens and plant debris.

***Halozetes macquariensis* (Dalenius and Wilson, 1958)**

Pertorgunia macquariensis Dalenius and Wilson, 1958

Descriptions: Dalenius and Wilson (1958), Wallwork (1963, 1966).

Recorded from: under driftwood and by a stream on the seashore; among vegetation (*Poa* and *Colobanthus*), soil from penguin rookery.

***Halozetes marinus* (Lohmann, 1907)**

Notaspis marinus Lohmann, 1907

Halozetes marina Womersley, 1937

Anarea maquariensis Dalenius and Wilson, 1958

Anarea marina

Descriptions: Dalenius and Wilson (1958), Wallwork (1963).

Recorded from: among littoral and supralittoral algae, lichens, crevices and debris; one record of a sublittoral (dislodged?) specimen.

Halozetes marinus devilliersi Englebrecht, 1974

Description: Englebrecht (1974).

Recorded from: upper littoral algae.

Halozetes marinus minor Wallwork, 1966

Description: Wallwork, 1966.

Recorded from: under stones associated with a mollusmaw colony.

Halozetes marionensis Englebrecht, 1974

Description: Englebrecht (1974).

Recorded from: upper littoral algae.

Halozetes necrophagus Wallwork, 1967

Description: Wallwork (1967).

Recorded from: whalebone in supralittoral.

Halozetes plumosus Wallwork, 1966

Description: Wallwork (1966a).

Recorded from: littoral or supralittoral lichens.

***Halozetes* sp. no. 1**

Listed in: Travé (1976).

Recorded from: the littoral zone.

***Halozetes* sp. no. 2**

Listed in: Horne (1984).

Recorded from: the littoral zone.

Podacarus auberti Grandjean, 1955

Description: Grandjean (1955), Luxton (1990).

Recorded from: under stones in penguin and cormorant (*Phalacrocorax*) rookeries; among extractions from terrestrial vegetation; from rat faecal pellets.***Podacarus auberti occidentalis*** Wallwork, 1966

Description: Wallwork (1966).

Recorded from: *Poa*, close to seashore and from debris high in the supralittoral zone.***Podacarus* sp. nov.** Luxton (personal communication).

New record from: nest debris of dominican gull in supralittoral zone.

Podacaridae inquerendia*Notaspis scotiae* Trouessart, 1912

Description: Trouessart, 1912

Recorded from: mosses and lichens.

***Notaspis* sp.**

Listed in: Michael, 1903.

No habitat data given.

Superfamily: *ORIBATULOIDEA*

Family: *ORIBATULIDAE* Thor, 1929

Campbellobates acanthus Wallwork, 1964

Description: Wallwork (1964b).

Recorded from: vegetation and litter.

Domotorina marionensis van Pletzen and Kok, 1971

Description: van Pletzen and Kok (1971).

Recorded from: vegetation and litter.

Paraphauloppia sp.

Listed in: Trevé (1976).

No habitat data given.

Scheloribates flagellatus Wallwork, 1966

Description: Wallwork (1966a).

Recorded from: mosses.

Zygoribatula subantarctica van Pletzen and Kok, 1971

Description: van Pletzen and Kok (1971).

Recorded from: inflorescence of *Poa*.

Family: *HAPLOZETIDAE* Grandjean, 1936

Maculobates nordenskjoeldi (Trägårdh, 1908)

Oribatula Nordenskjoeldi Trägårdh, 1908

Liebstadia Nordenskjoeldi Dalenius and Wilson, 1958

Descriptions: Trägårdh (1908), Dalenius and Wilson (1958).

Recorded from: under stones in a pool.

Totobates anarensis (Dalenius, 1958)

Liebstadia anarensis Dalenius, 1958

Description: Dalenius and Wilson (1958)

Recorded from: terrestrial vegetation, extracted from bird nest material, sheep dung and soil.

Totobates elegans Hammer, 1958

Totobates sp. Hammer (Wallwork, 1963)

Description: Wallwork (1963).

No habitat data given.

Totobates elegans antarcticus Wallwork, 1966

Description: Wallwork (1966a).

Recorded from: vegetation.

Totobates marionensis van Pletzen and Kok, 1971

Description: van Pletzen and Kok (1971).

Recorded from: *Blechnum* moss.

Superfamily: *CERATOZETOIDEA*

Family: *CERATOZETIDAE* Grandjean, 1954

Ceratozetes gaussi (Richters, 1907)

Oribata gaussi Richters, 1907

Jeannelia gaussi

Description: Wallwork (1972).

Recorded from: mosses and lichens?

Edwardzetes dentifer Hammer, 1962

Description: Hammer (1962).

No habitat data given.

Edwardzetes elongatus Wallwork, 1966

Description: Wallwork (1966).

Recorded from: among vegetation and litter?; tidal debris and whalebone in the supralittoral.

Macrogenia monodactyla Wallwork, 1966

Description: Wallwork (1966b).

No habitat data given.

Magellozetes antarcticus (Michael, 1895)

Oribata antarctica Michael, 1895

Ceratozetes antarctica

Descriptions: Dalenius and Wilson (1958), Wallwork (1965).

Recorded from: (barren?) rocks; under stones, among tidal debris and nest of dominican gull in the supralittoral.

Magellozetes processus Hammer, 1962

Listed in: Travé (1974).

No habitat data given.

Maudheimia petronia Wallwork, 1962

Description: Wallwork (1962).

Recorded from: lichens growing on (warm?) rocks.

Maudheimia wilsoni Dalenius, 1958

Description: Dalenius and Wilson (1958).

Recorded from: nunataks on lichens?

Porozetes polygonalis Hammer, 1962

Listed in: West (1984).

No habitat data given.

Porozetes polygonalis quadrilobatus Wallwork, 1966

Description: Wallwork (1966b).

Recorded from: lichens and whalebone in the supralittoral and away from the shore.

Scotiazetes bidens Wallwork, 1966

Description: Wallwork (1966b).

Recorded from: moss and under rocks near a stream.

Sphaerozetes sp.

Listed in: Travé (1976).

No habitat data given.

Family: *MYCOBATIDAE* Grandjean, 1954

Antarctozetes crozetensis (Richters, 1907)

Oribata crozetensis Richters, 1907

Jeannelia crozetensis

Antarctozetes crozetensis

Descriptions: Dalenius and Wilson (1958), Wallwork (1972).

Recorded from: mosses and lichens; inflorescence of *Poa*.

***Antarctozetes* sp.**

Listed in: Travé (1976b).

No habitat data given.

Cryptobothria monodactyla Wallwork, 1963

Descriptions: Wallwork (1963a), Watson (1967).

Recorded from: vegetation (*Pleurophyllum* and *Colobanthus*).

Neomycobates tridentatus Wallwork, 1963

Description: Wallwork (1963).

Recorded from: on algae on littoral zone and among *Poa* in seal wallows.

Superfamily: *ORIBATELLOIDEA*

Family: *ACHIPTERIIDAE* Thor, 1929

Achipteriidae inquerendia

Listed in: Sitnikova and Andreychikova, 1973

No habitat data given.

Superfamily: *GALUMNOIDEA*

Family: *GALUMNIDAE* Jacot, 1925

Galumna alata Hermann, *sensu* Micheal (1908).

Oribata alata Hermann, 1804

Listed in: Trägårdh (1907), Dalenius and Wilson (1958), Dalenius (1965).

Recorded from: under stones in a pool.

***Galumna* sp.**

Listed in: Dalenius and Wilson (1958).

Recorded from: under stones in a pool.

Family: *PARAKALUMMIDAE* Grandjean, 1936

Sandenia georgiae (Oudemans, 1914)

Galumna georgia Oudemans, 1914

Description: Wallwork (1966b).

Recorded from: among rocks, moss and lichens.

Sandenia rotunda Wallwork, 1963

Porokalumma rotunda (Wallwork) Luxton, 1990

Description: Wallwork (1963a)

Recorded from: among vegetation (*Puccinellia*, *Colobanthus*, *Poa*, *Stilbocarpus*), rock crevices, debris in penguin rookeries.

Species *inquerendia****Acarus riparius***

Listed in: Studer (1879), Dalenius (1965).

Poronotique

Listed in: Travé (1976).

No habitat data given.

Suborder: ASTIGMATA (=ACARIDIDA)

Diagnoses and keys to families: Krantz (1978), Griffiths and Macfarlane (1989).

Superfamily: *ACAROIDEA*

Family: *ACARIDAE* Murray, 1877

***Acarus siro* Linnaeus, 1758**

Acarus farinae Linnaeus, 1758

Tyroglyphus farinae

Descriptions: Hughes (1976), Griffiths and Macfarlane (1989).

Recorded from: nests of rats, albatross and penguin; among *Stilbocarpa* litter and *Puccinillia* in association with rockhopper penguins (*Eudyptes chryocome*), fowl-house debris, wheat and bran and in a freshwater lake. A non-indigenous species introduced via ships stores.

***Aleurobius farinae* de Geer**

Listed in: Berlese (1917), Dalenius (1965).

Recorded from: ships' stores; a non-indigenous introduced species, usually associated with stored products in temperate regions.

***Rhizoglyphus echinopus* Fumouze and Robin**

Listed in: Womersley (1937).

Recorded from: ships' stores; a non-indigenous introduced species, usually associated with soils in temperate regions.

***Rhizoglyphus* sp. (*echinopus* ?)**

New record from: yellow lichens on whalebone in the supralittoral zone.

***Tyrophagus castelini* Hirst**

Listed in: Bull (1960).

Recorded as: ectoparasites of rabbits (*Oryctolagus cuniculus*), but may be an *in transit* contaminant of material.

***Tyrophagus longior* (Gervais, 1844)**

Tyroglyphus longior Gervais, 1844

Tyroglyphus dimidiatus var. *longior* (Womersley, 1937)

Descriptions: Robertson (1959), Griffiths and Macfarlane (1989).

Recorded from: fowl-house debris, rat debris, lichens and algae lining wall of cave.

***Tyrophagus putrescentiae* (Schränk, 1781)**

Listed in: Tilbrook (1964); Goddard (1979); Griffiths and Macfarlane (1989).

No habitat data given; probably introduced.

***Tyrophagus* cf. *putrescentiae* (Schränk, 1781)**

Description: Dastych (1990).

Recorded from: among stones and lichens, but probably represents a contamination and this species is almost certainly introduced.

Tyrophagus similis Volgin ***kerghuelensis*** Fain, 1976

Description: Fain (1976).

Recorded from: phanaerogams on a rocky shore, humus and mosses.

Family: *CARPOGLYPHIDAE* Oudemans, 1923

Carpoglyphus neglectus Cambridge, 1876

Listed in: Enderlein (1903), Dalenius (1965).

No habitat data given, but a non-indigenous species and probably introduced.

***Carpoglyphus* sp.**

Listed in: Watson (1967).

Recorded from: leaf litter; lichens and algae lining cave walls; *Puccinella*; *Colobanthus*; *Cotula* flowers; royal penguin (*Eudyptes chrysolophus schlegeli*) nest debris; cormorant (*Phalacrocorax*) nest material; hay and dung from stable; sheep dung.

Family: *CHAETODACTYLIDAE* Zachvatkin, 1941

Chaetodactylus antarcticus (Trägårdh, 1907)

Trichotarsus antarcticus Trägårdh, 1907

Description: Trägårdh (1907).

No habitat data given.

Family: *GLYCACARIDAE* Griffiths, 1977

Glycacarus combinatus Griffiths, 1977

Description: Griffiths (1977).

Recorded from: burrow of white-chinned (shoemaker) petrel (*Procellaria aequinoctialis*).

Family: *GLYCYPHAGIDAE* Berlese, 1887

***Caloglyphus* sp.**

Listed in: Watson (1967).

Recorded from: fowl-house debris.

Glycyphagus destructor (Schrank, 1781)

Description: Griffiths and Macfarlane (1989).

No habitat data given, but a non-indigenous species and probably introduced.

Glycyphagus domesticus (de Geer, 1778)

Acarus domesticus de Geer, 1778

Description: Hughes (1976).

Recorded from: nest litter of dove prion (*Pachyptila desolata*), wandering albatross (*Dioemedea exulans*); vegetation, litter and soil; fowl-house debris.

Glycyphagus spinipes (Koch)

Listed in: Berlese (1917); Dalenius (1965).

Recorded from: ships stores; a non-indigenous introduced species.

***Glycyphagus* sp. no. 1**

Listed in: Gressitt (1967).

No habitat data given, but probably an introduced species.

***Glycyphagus* sp. no. 2**

Listed in: Watson (1967).

Recorded from: rockhopper penguin (*Eudyptes chrysocome*) debris in a cave rookery.

***Glycyphagus* sp. no. 3**

New record from: the littoral zone from the alga *Gigartina*, possibly a displaced specimen, blown there by wind.

***Schwebia talpa* Oudemans, 1916**

Description: Hughes (1957).

Recorded from: wandering albatross (*Diomedea exulans*) nests.

***Schwebia talpa subantarctica* Fain, 1976**

Description: Fain (1976)

Recorded from: Phanaerogams, mosses, humus, soil and terrestrial algae.

Family: *HYADESIDAE* Halbert, 1915

Keys: Fain (1974), Luxton (1990).

***Algophagus antarcticus* Hughes, 1955**

Description: Hughes (1955).

Recorded from: among mosses, grasses and humus.

***Algophagus antarcticus latricollaris* Fain, 1974**

Description: Fain (1974).

Recorded from: wet soil.

***Algophagus semicollaris* Fain, 1974**

Description: Fain (1974).

Recorded from: terrestrial algae, vegetable debris, mosses, bird nest debris and bird droppings.

***Hyadesia halophila* Fain, 1974**

Description: Fain (1974).

Recorded from: littoral rocks, crevices and algae.

***Hyadesia kerguelensis* Lohmann, 1907**

Hyadesia (Hyadesiella) kerguelensis
nec. *Hyadesia kerguelensis* André, 1933

Description: Fain (1974).

Recorded from: littoral algae.

***Hyadesia maxima* Fain, Sømme and Block, 1983**

Description: Fain *et al.* (1982).

Recorded from: littoral algae and crevices.

***Hyadesia subantarctica* Fain, 1974**

Hyadesia (Hyadesia) subantarctica Fain, 1974

= *Hyadesia kerguelensis* André, 1933?

nec. *Hyadesia kerguelensis* Lohmann, 1907

Description: Fain (1974).

Recorded from: littoral algae and crevices.

***Hyadesia womersleyi* Luxton, 1989**

Hyadesia (Hyadesia) womersleyi Luxton, 1989

Hyadesia uncinifer (Womersley 1937) nec. Meigen (1891)?

Description: Luxton (1989).

Recorded from: littoral green algae.

***Hyadesia* sp.**

Hyadesia womersleyi Luxton, 1989?

Listed in: Watson (1967).

Recorded from: the green alga *Rhizoclonium*, on coastal rocks.

***Neohyadesia signyi* Hughes and Goodman, 1969**

Description: Hughes and Goodman (1969).

Recorded from: littoral brackish and freshwater pools.

***Neohyadesia signyi punctulata* Fain, 1974**

Neohyadesia (sic.) signyi subsp. *punctulata* Fain, 1974.

Description: Fain (1974).

Recorded from: littoral plants ('phanérogames halophiles').

Family: *SAPROGLYPHIDAE* Oudemans, 1924

Key: *Neocalvolia* (Fain, 1974).

***Calvolia* sp.**

Listed in: Watson (1967).

Recorded from: *Poa* soil, *Prasiola* alga on penguin rookery, penguin and albatross nests, lichens, wall scrapings and penguin nest debris from caves.

***Neocalvolia antarctica* (Hughes and Tilbrook, 1966)**

Calvolia antarctica Hughes and Tilbrook, 1966

Description: Hughes and Tilbrook (1966)

Recorded from: lichen-covered rock.

***Neocalvolia claggi* Hughes, 1970**

Description: Hughes (1970).

Recorded from: tussock grass.

***Neocalvolia kerguelensis* Fain, 1974**

Description: Fain (1974).

Recorded from: 'phanaérogams', mosses, lichens, humus and in soil.

***Neocalvolia travei* Fain, 1974**

Description: Fain (1974).

Recorded from: leaf litter, 'phanaérogams' on soil, mosses.

***Psylloglyphus crenulatus* Fain and Beaucournu, 1984**

Description: Fain and Beaucournu (1984).

Recorded as: phoretic on flea *Notiopsylla kerguelensis* from burrow of grey petrel (*Procellaria cinerea*).

Superfamily: *ANALGOIDEA*

Diagnoses and keys: Atyeo and Petersen (1967, 1970).

Family: *ANALGESIDAE* Trouessart, 1915

Alloptes aschizurus Gaud, 1952

Description: Gaud (1952).

Recorded on: American and lesser sheath-bills *Chionis alba* and *C. minor*.

Alloptes bisetatus Haller, 1881

Description: Haller (1881).

Recorded on: kerguelen tern (*Sterna virgata*).

Alloptes chionis Atyeo and Petersen, 1967

Description: Atyeo and Petersen, 1967, 1970).

Recorded on: American and lesser sheathbills (*Chionis alba* and *C. minor*).

Alloptes crassipes (Canestrini, 1878)

Listed in: Dalenius (1965).

Recorded on: American sheathbill (*Chionis alba*).

Alloptes obtusulobus Dubinin, 1951

Description: Dubinin (1951).

Recorded on: Kelp gull (*Larus dominicanus*).

Alloptes stercorarii Dubinin, 1952

Description: Dubinin (1952).

Recorded on: Antarctic and south polar skuas (*Catharacta skua maccormacki* and *C. loennbergi*).

***Alloptes* sp. no. 1**

Listed in: Gaud (1952).

Recorded on: thin-billed prion (*Pachyptila belcheri orientalis*).

***Alloptes* sp. no. 2**

Listed in: Schaeffer and Strandtmann (1971).

Recorded on: South polar skua (*Catharacta skua maccormicki*).

Leptosphyra antarctica (Gaud, 1952)

Megninia antarctica Gaud, 1952

Descriptions: Gaud (1952), Atyeo and Peterson (1970).

Recorded on: Georgian diving petrel (*Pelicanoides georgicus*).

***Leptosphyra* sp.**

Megninia centropodus forcipata (Haller, 1876) in Trouessart, 1914 (misidentification).

Description: Trouessart (1914).

Recorded on: American sheathbill (*Chionis alba*).

Family: *AVENZOARIDAE* Oudemans, 1908

Avenzoaria calidridis (Oudemans, 1904)

Pterolichus calidris Oudemans, 1904

Descriptions: Dubinin (1956), Atyeo and Peterson (1970).

Recorded on: *Calidris fuscicollis*, which occurs in the sub-Antarctic.

Bdellorhynchus polymorphus Trouessart, 1885

Descriptions: Trouessart (1885), Dubinin (1956), Atyeo and Peterson (1970).

Recorded on: South Georgia pintail (*Anas georgicus*).

Laronyssus marinus (Trouessart, 1886)*Pterolichus marinus* Trouessart, 1886

Description Trouessart (1886), Dubinin (1951), Atyeo and Peterson (1970).

Recorded on: gulls and terns (genera *Larus*, *Rissa* and *Sterna*).***Laronyssus martini*** (Trouessart, 1886)*Pterolichus martini* Trouessart, 1886

Descriptions. Trouessart (1886), Dubinin (1951, 1956), Atyeo and Peterson (1970).

Recorded on: gulls and terns (genera *Larus*, *Rissa* and *Sterna*).***Promegninia pedimania*** (Trouessart, 1899)*Megninia pedimania* Trouessart, 1899

Descriptions: Gaud and Atyeo (1967), Atyeo and Peterson (1970).

Recorded on: black footed and grey-headed albatrosses (*Diomedea nigripes* and *D. chrysostoma*).***Scutomegninia phalacrocaracis*** (Dubinin and Dubinina, 1940)*Megninia phalacrocaracis* Dubinin and Dubinina, 1940

Descriptions: Atyeo and Petersen (1967, 1970).

Recorded on: imperial shag (*Phalacrocorax atriceps*).***Zachvatkinia hydrobatidii*** Dubinin, 1949

Descriptions: Dubinin (1949), Atyeo and Peterson (1970).

Recorded on: Wilson's storm petrel (*Oceanites oceanicus*), snow petrel (*Pagadroma nivea*) and black-billed storm petrel (*Fregetta tropica*).***Zachvatkinia puffini*** (Buchholz, 1869)*Dermaleichus puffini* Buchholz, 1869*Bonnatella puffini**Buchholzia puffini*

Listed in: Gaud (1952).

Description: Buchholz (1869?)

Recorded on: Antarctic skua (*Catharacta antarctica*).***Zachvatkinia stercorarii*** Dubinin, 1949

Description: Dubinin (1949).

Recorded on: Antarctic and south polar skuas (*Catharacta loennbergi* and *C. maccormacki*).***Zachvatkinia* sp. no. 1 (near *hydrobatidii*)**

Listed in: Atyeo and Peterson (1970).

Recorded on: giant petrel (*Macronectes giganteus*).***Zachvatkinia* sp. no. 2**

Listed in: Horne and Rounsevell (1982).

Recorded on: Antarctic skua (*Catharacta loennbergi*).Family: *PROCTOPHYLLODIDAE* Megnin and Trouessart, 1883***Brephosceles dromedei*** Atyeo and Peterson, 1970

Description: Atyeo and Peterson (1970).

Recorded on: grey-headed and black-browed albatross (*Diomedea chrysostoma* and *D. melanophris*).

Brephosceles gressitti Atyeo and Peterson, 1970

Description: Atyeo and Peterson (1970).

Recorded on: grey-headed albatross (*Diomedea chrysostoma*).***Brephosceles marginiventris*** (Trouessart, 1899)*Proctophyllodes (Alloptes) marginiventris* Trouessart, 1899

Descriptions: Trouessart (1899), Peterson and Atyeo (1968).

Recorded on: yellow-nosed albatross (*Diomedea chlororhynchus*) and giant petrel (*Macronectes giganteus*).***Echinacarus petaliferus*** (Trouessart, 1898)*Pterolichus rubidus petaliferus* Trouessart, 1898*Echinacarus rubidus* (in part) Dubinin, 1949

Descriptions: Dubinin (1949), Atyeo and Peterson (1970)

Recorded on: grey-headed and black-browed albatrosses (*Diomedea chrysostoma* and *D. melanophris*, and possibly other species in the genus).***Echinacarus rubidus*** (Trouessart, 1886)*Pterolichus rubidus* Trouessart, 1886

Descriptions: Dubinin (1949), Atyeo and Peterson (1970).

Recorded on: several species of albatross (genus *Diomedea*).***Microspalax manicata*** Megnin and Trouessart, 1884)*Freyana (Microspalax) manicata* Megnin and Trouessart, 1884*Microspalax (Microspalax) manicata*

Descriptions: Dubinin (1949), Atyeo and Peterson (1970)

Recorded on: Antarctic petrel (*Thalassiodroma (=Priocella) antarctica*), which has been recorded at Heard I. The mite has been found at Cape Horn.***Oxyalges cardiurus*** Gaud and Atyeo, 1966

Descriptions: Gaud and Atyeo (1966), Atyeo and Peterson (1970).

Recorded on: dove prion (*Pachyptila desolata*); and possibly slender-billed and fairy prions (*P. belcheri* or *P. crassirostris*).***Oxyalges incertus*** (Gaud, 1952)*Thecarthra incerta* Gaud, 1952

Descriptions: Gaud (1952); Gaud and Mouchet (1959).

Recorded on: Georgian diving petrel (*Pelicanoides georgicus*).***Pterolichus* sp.***Echinacarus* sp?

Listed in: Trouessart (1903).

Recorded on: American sheathbill (*Chionis alba*).***Trouessartia chionidis*** Trouessart, 1914

Descriptions: Trouessart (1914), Atyeo and Peterson (1970).

Recorded on: American sheathbill (*Chionis alba*).Superfamily: *HISTIOSTOMATOIDEA*

Key to some species: Atyeo and Peterson (1967)

Family: *HISTIOSTOMATIDAE* O'Connor, 1982

***Amyzanoetus halophilus* Fain, 1976**

Description: Fain (1976).

Recorded from: tidal debris.

***Austranoetus kerguelensis* Fain, 1976**

Description: Fain (1976).

Recorded from: tidal debris and among marine algae.

Austranoetus* sp. (nr. *kerguelensis*)**New record from: *Oopterus soledadinus* and *Hydromedion sparsutum* (Coleoptera) as active deuteronymphs, close to the seashore.Histiostoma kerguelense* Fain, 1976**

Description: Fain (1976).

Recorded from: humus and vegetable matter.

***Histiostoma* sp.**

Listed in: Watson (1967).

Recorded from: leaf litter, vegetation (*Stilbocarpa* and *Colobanthus*), sheep dung and 'mud with decaying kelp'.***Myianoetus travei* Fain, 1976**

Description: Fain (1976).

Recorded from: No data.

Superfamily: *FREYANOIDEA*

Key to some species: Atyeo and Peterson (1967)

Family: *FREYANIDAE* Dubinin, 1951***Diomedacarus gigas* (Touessart, 1895)***Freyana* (*Microspalax*) *gigas* Trouessart, 1895

Descriptions: Dubinin (1949, 1951, 1953), Atyeo and Peterson (1970).

Recorded on: several albatross (*Diomedea*) species.***Freyana anatina anatina* (Koch, 1844)***Dermaleichus anatinus* Koch, 1844

Descriptions: Dubinin (1953), Atyeo and Peterson (1970).

Recorded on: South Georgia pintail (*Anas georgicus*)?***Freyana largifoliata largifoliata* (Megnin and Trouessart, 1884)***Freyana anatina* var. *largifoliata* Megnin and Trouessart, 1884

Description: Atyeo and Peterson (1970).

Recorded on: South Georgia pintail (*Anas georgicus*)?***Michaelia heteropus* (Michael, 1881)***Dermaleichus heteropus* Michael, 1881*Michaelichus heteropus*

Descriptions: Dubinin (1953), Atyeo and Peterson (1970).

Recorded on: imperial shag (*Phalacrocoris atriceps*).

Michaelia microcarbonis (Dubinin, 1953)*Michaelichus microcarbonis* Dubinin, 1953

Descriptions: Dubinin (1953), Atyeo and Peterson (1970).

Recorded on: imperial shag (*Phalacrocorax atriceps*).***Michaelia urile*** (Dubinin, 1953)*Michaelichus urile* Dubinin, 1953

Descriptions: Dubinin (1953), Atyeo and Peterson (1970).

Recorded on: imperial shag (*Phalacrocorax atriceps*).Superfamily: *LISTOPHOROIDEA*

Key to some species: Atyeo and Peterson (1967)

Family: *LISTROPHORIDAE* Canestrini, 1892***Listrophorus gibbus*** (Pagenstecher, 1861)

Listed in: Bull (1960).

Recorded on: rabbits (*Oryctolagus cuniculus*), a non-indigenous introduced species.Superfamily: *PTEROLICHOIDEA*

Key to some species: Atyeo and Peterson (1967).

Family: *PTEROLICHIDAE* Trouessart, 1915***Ardeacarus ardeae*** (Canestrini, 1878)*Dermaleichus ardeae* Canestrini, 1878

Descriptions: Dubinin (1956), Gaud and Till (1961), Atyeo and Peterson (1970).

Recorded on: great crested heron (*Camaserodius albus* = *Egretta alba*), which has been recorded on South Georgia.***Thecarthra theca*** (Megnin and Trouessart, 1884)*Pterolichus (Pterolichus) theca* Megnin and Trouessart, 1884

Descriptions: Dubinin (1956), Atyeo and Peterson (1970).

Recorded on: terns (*Sterna* sp.), including migrants to the sub-Antarctic islands.***ACARI inquerendia******Torynophora saxorum*** (Studer, 1879)*Acarus saxorum* Studer, 1879Description: Studer (1879). Is this a prostigmatic mite? *Torynophora serrata* is a junior synonym of *Bryobia praetiosa*.

No habitat data given.

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	A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.	O.	P.	Q.	R.	S.	T.	U.	V.	W.	X.	Y.	Z.	*	†	‡	Additional Records	
<i>Davarcus gressittj</i>												L																			
<i>D. sp.</i>												L																			
POLYASPIDIDAE																															
Unidentified no. 1																		R													
Unidentified no. 2																		R													
UROPODIDAE																															
<i>Phaulodimychus gressitti</i>												L																			
<i>Uroobovella gressitti</i>												L																			
<i>Uropoda sp. no. 1</i>																		R													
<i>U. sp. no. 2</i>																		R													
<i>U. sp. no. 3</i>																		R													
Uropodiidae nr. <i>Uroobovella</i>												L																			
<i>Opisthope crozetensis</i>															O																
<i>Piracarus crozetensis</i>																															
METASTIGMATA			C																												
IXODIDAE																															
<i>Ixodes auritulus</i>																			PQR												
<i>I. kerguelensis</i>																			QRS												
<i>I. pterodromae</i>																			RS												
<i>I. uriae</i>																			RS												
PROSTIGMATA																															
NANORCHESTIDAE																															
<i>Nanorchestes amphibiis</i>																															
<i>N. antarcticus</i>																															
	A	B	D					G	H	I	J	K	M						R?												Europe
																			R	S	T										All Sub-Antarctic islands?; to 85°S

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<i>E. tottanfella</i>	A																													
<i>E. wisei</i>				D																										
<i>E. winsnesi</i>	A																													
<i>E. sp. no. 1</i>																														
<i>E. sp. no. 2</i>																														
<i>E. sp. no. 3</i>																														
<i>E. sp. no. 4</i>																														
<i>E. sp. no. 5</i>																														
<i>Protereunetes crozeti</i>																														
<i>P. maudae</i>	A		D																											
<i>P. paulinae</i>			D																											
<i>P. sp. no. 1</i>																														
<i>P. sp. no. 2</i>																														
PENTHALEIDAE																														
<i>Halotydeus signiensis</i>																														
<i>H. sp. no. 1</i>																														
<i>H. sp. no. 2</i>																														
<i>Penthaleus major</i>																														
<i>P. sp.</i>																														
PENTHALODIDAE																														
<i>Stereotydeus belli</i>				D																										
<i>S. delicatus</i>				D																										
<i>S. intermedius</i>																														

Cosmopolitan

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	Maud Sector	Enderby Sector	Wilkes Sector	Scott Sector	Byrd Sector	Ronne Sector	Palmer Land	Graham Land	South Shetland Is.	South Orkney Is.	South Sandwich Is.	South Georgia	Bouvetoya	Marion/Prince Edward Is.	Crozet Is.	Kerguelen Is.	Heard Is.	Macquarie Is.	Campbell Is.	Ballen/Scott Is.	Peter I Is.	Bellinghshausen Sea	Weddell Sea	Atlantic Ocean	Indian Ocean	Australian	New Zealand	Ross Sea	Pacific Ocean	
<i>O. sp. no. 1</i>															O	P														
<i>O. sp. no. 2</i>															P															
PODACARIDAE																														
<i>Alaskozetes antarcticus</i>																														
<i>A. a. grandjeani</i>																														
<i>A. a. intermedius</i>																														
<i>A. bovetoyaensis</i>																														
<i>A. sp.</i>																														
<i>Antarcticola georgiae</i>																														
<i>A. meyeri</i>																														
<i>A. sp.</i>																														
<i>Halozetes belgicae</i>																														
<i>H. belgicae brevipilis</i>																														
<i>H. belgicae longiseta</i>																														
<i>H. crozetensis</i>																														
<i>H. edwardensis</i>																														
<i>H. fulvus</i>																														
<i>H. impeditus</i>																														
<i>H. intermedius</i>																														
<i>H. littoralis</i>																														
<i>H. macquariensis</i>																														
<i>H. marinus</i>																														
<i>H. marinus devilliersi</i>																														
<i>H. marinus minor</i>																														
<i>H. marionensis</i>																														
<i>H. necrophagus</i>																														
<i>H. plumosus</i>																														
<i>H. sp. no. 1</i>																														

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	A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.	O.	P.	Q.	R.	S.	T.	U.	V.	W.	X.	Y.	Z.	*	†	‡	
	Maud Sector	Enderby Sector	Wilkes Sector	Scott Sector	Byrd Sector	Ronne Sector	Palmer Land	Graham Land	South Shetland Is.	South Orkney Is.	South Sandwich Is.	South Georgia	Bouvetoya	Marion/Prince Edward Is.	Crozet Is.	Kerguelen Is.	Heard Is.	Macquarie Is.	Campbell Is.	Balleney/Scott Is.	Peter I Is.	Bellingshausen Sea	Weddell Sea	Atlantic Ocean	Indian Ocean	Australian	New Zealand	Ross Sea	Pacific Ocean	
<i>Magellozetes antarcticus</i>								H	I	J	L					P	P													
<i>M. processus</i>																														
<i>Maudheimia petronia</i>																														
<i>M. wilsoni</i>	A			D																										
<i>Porozetes polygonalis</i>												L																		
<i>P. quadrilobatus</i>												L																		
<i>Scotiazetes bidens</i>												L																		
<i>Sphaerozetes sp.</i>																	P													
<i>MYCOBATIDAE</i>																														
<i>Antarctozetes crozetensis</i>																														
<i>A. sp.</i>								H								OP	O													
<i>Cryptobothria monodactyla</i>																		R												
<i>Neomycobates tridentatus</i>																		R												
<i>ACHIPTERIIDAE</i>																														
<i>Achipteria inquereidia</i>																														
<i>GALUMNIDAE</i>																														
<i>Galumna alata</i>												L				P														
<i>G. sp.</i>												L																		
<i>PARAKALUMMIDAE</i>																														
<i>Sandania georgiae</i>												L																		
<i>S. rotunda</i>																														
<i>CRYPTOSTIGMATIDA</i>																														
<i>INQUERENDIA</i>																														
<i>Acarus riparius</i>																														
<i>Poronitque</i>																														
<i>ASTIGMATIDA</i>																														
<i>ACARIDAE</i>																														
<i>Acarus siro</i>																														

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<i>Pterolichus</i> sp.								H																						
<i>Trouessartia chionidis</i>								H																						
HISTIOSTOMATIDAE																														
<i>Amyzanoetus halophilus</i>																P														
<i>Austranoetus kerguelensis</i>																P														
<i>A. sp.</i>											(L)					P														
<i>Histiostoma kerguelense</i>																P		R												
<i>H. sp.</i>																P														
<i>Myianoetus travei</i>																P														
FREYANIDAE																														
<i>Diomedacarus gigas</i>																														
<i>Freyana anatina anatina</i>												L																		
<i>F. l. largifoliata</i>											L																			
<i>Michaelia heteropus</i>											L																			
<i>M. microcarbonis</i>											L?																			
<i>M. urile</i>											L?																			
LISTROPHORIDAE																														
<i>Listrophorus gibbus</i>																		R												
PTEROLICHIDAE																														
<i>Ardeacarus aredeae</i>																														
<i>Thecarthra theca</i>											L																			
ACARI INQUERENDIA																														
<i>Torinophora saxorum</i>																	P													

Cape Horn; St Paul Is.
Atlantic; Japan; Siberia

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Discussion—uses and limitations of the catalogue

At present it is neither possible nor practical to produce a complete identification guide to the mites of Antarctica and the Southern Ocean. Of the 528 species recorded, 110 have not been identified beyond the generic level, or are inadequately described. A number of the larger families, for example the Podacaridae and Rhodacaridae, contain numerous synonyms but have not been re-appraised for a number of years, and the status of many of the species recorded in these families, in particular, needs to be examined critically. Other families, for example the Tydeidae, need a generic revision of the early recorded species.

In addition to the obvious taxonomic problems, the available data are biased on two fronts:

Habitat bias

Much of the collection data available for particular areas has concentrated upon specific mite faunas, notably those associated with particular regions of vegetation, or birds and seals. Data from shore-line collections are only available for two of the sub-Antarctic islands, namely South Georgia and Kerguelen. This is especially important if one considers that if the parasitic and nidicolous mites are excluded, all of the remaining mites belong to families which are usually associated with the seashore in more temperate regions (Pugh, 1985; Pugh and King, 1985). This suggests that many of the Antarctic Acari *may* have had a shoreline origin. Yet until shoreline collections have been collated from all sub-Antarctic islands, the true nature of the peri-Antarctic fauna cannot be established. Sea ice formation naturally precluded the development of such fauna on most of the glaciated regions of the sub-Antarctic islands and mainland Antarctica.

Although Bartsch (in press) provides an up-to-date list of peri-Antarctic Halacaridae, she does not include all of those recorded from the northern regions of the Southern Ocean, namely around the sub-Antarctic islands. The major problem with surveys of halacarid mites is that very few expeditions have actually looked for benthic mites in the region. The majority of records have resulted from such mites being collected during more general surveys, but (luckily!) recognized as being mites and handed to a specialist for identification. Newell's data (1984) from a series of collections made around southern South America, included over 100 species for which the 'type' records are the only known ones. Some of these have subsequently been recorded at South Georgia (personal observation), and others may also occur at other islands within the Southern Ocean. Hence, some of Newell's species have been included in this survey.

Regional bias

Although there are good records for the Acari collected from the sub-Antarctic and sub-temperate islands around New Zealand (Macquarie, Auckland and Campbell), records for the comparable Scotia Arc sector (South Georgia, Tierra del Fuego and in particular the Falkland Islands) are very poor. These areas need to be studied in detail if the proper distribution and biogeography of the fauna is to be assessed properly.

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