

BIBLIOGRAPHIC INTRODUCTION TO ANTARCTIC-SUBANTARCTIC ENTOMOLOGY

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ABSTRACT

The entomological fauna of Antarctica is extremely limited. Only 44 terrestrial species are known, representing Acarina, Collembola, Mallophaga, Anoplura and Diptera. Well over 700 species are known from Subantarctic islands, representing about 20 orders of terrestrial arthropods. Best represented are arachnids, springtails, lice, beetles, and flies, the last having the greatest number of species. Forms recorded from the Antarctic continent are listed, and numbers of species from Subantarctic islands are tabulated. Percentages of species which are wingless or short-winged are also tabulated. An annotated bibliography of 424 items is included.

INTRODUCTION

This article is intended as introductory background material for use in connection with current studies in biology in the Antarctic area. These studies are being pursued by representatives of 12 nations, as arranged by the Special Committee on Antarctic Research (International Council of Scientific Unions), following on the work of the International Geophysical Year (1957-58). Under the United States Antarctic Research Program, during 1958-59, M. Pryor has been doing entomological work in the McMurdo and Hallett areas under the sponsorship of N. A. Weber. During 1959-60, R. E. Leech and C. W. O'Brien are each spending six months, and J. L. Gressitt three months, in the same, and other western coastal areas, as well as in the Ross and Bellingshausen seas, principally studying air dispersal, on a Bishop Museum project under the U. S. Antarctic Research Program (National Science Foundation).

This paper is also aimed to serve as a reference point and as background for zoogeographic studies in the general area. Until the faunae of the various Antarctic-Subantarctic areas, and relationships thereof, are better known, it is premature to draw conclusions as to the origin and distribution of the fauna. Only a few tentative observations are made now. Zoogeographical papers dealing with relationships of the other southern continents (S. America, Africa, Australia), and not primarily with Antarctic-Subantarctic areas, are not included in the bibliography. The treatment of areas considered in this report is somewhat uneven. It is intended to be complete for Antarctica proper, and reasonably complete for the true Subantarctic islands, whereas references to Tristan da Cunha, the Falkland Is., Tierra del Fuego and the Straits of Magellan are not intended to be complete.

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ANTARCTICA

The scope of the present survey includes the Antarctic and the Subantarctic areas. The Antarctic, as a biological area, is here taken to include the land and waters south of the Antarctic Convergence. The Antarctic Convergence may be represented by an irregular line (see map) running partly in the vicinity of 50° S. latitude and more southerly in the Pacific area. This line marks a sharp division in temperature, salinity and other marine conditions. The drop in temperature is very noticeable on crossing this line on the way south.

All of the islands within the area that are not closely associated with the Antarctic Continent are small and with a climate affected appreciably by the surrounding waters. They include such islands as South Georgia, South Sandwich, Scott, Balleny, Bouvet and Heard. Kerguelen, Crozet, Marion and Macquarie are close to the Convergence. Tierra del Fuego and the Falklands are distinctly outside of this area. Only South America, of all the continents, comes at all close to the line. The Subantarctic biological area includes this southern tip of South America, the islands of Falklands (Islas Malvinas), Gough, Campbell, Auckland, Antipodes, and Snares. The South Island of New Zealand is appreciably colder than the North Island and in a sense represents a transition to the Subantarctic. New Zealand proper and the Chatham Islands are not considered in this paper, but the other areas are covered to some degree.

The Antarctic Continent itself is generally unfavorable for land arthropods because of the great thickness of the ice sheet and the rigorous climate. The continent may be divided into two areas, West Antarctica and East Antarctica. The latter is particularly unfavorable to terrestrial animals. West Antarctica is separated from South America by the stormy Drake Passage but is related geologically to it. The waters separating them are less than 4000 meters deep. The continent is large (equal to Australia plus western Europe) and has the highest average altitude of all the continents. It is also the most isolated of the continents. There is no land to speak of between 55° and 65° S. to interfere with east-west circulation of air and sea, with permanent currents to westward. There is very little interchange of warm and cool air. Temperatures are largely below freezing, and often colder than -60° C. In some areas the ice-cap is over 4,000 meters thick. Probably little more than 100 sq. km is free of ice. The rocks of Antarctica are old, and much of the land has been above sea since the Paleozoic.

THE NATURE OF THE ANTARCTIC FAUNA

Few groups of terrestrial arthropods are known to exist on the actual Antarctic continent. Only Acarina, Collembola, Anoplura, Mallophaga and Diptera are recorded. Arranged in decreasing order of numbers of species reported, these are: 1) biting lice of sea birds; 2) mites on birds, mammals, primitive plants, rocks or soil; 3) springtails in

soil, on lichens, mosses and algae, and algal ponds of melted ice; 4) sucking lice on seals; 5) ticks on sea birds; 6) flies breeding in coastal waters. Those recorded are mentioned in the following list. The southernmost recorded occurrence of permanent inhabitants is at 77° south latitude, in the neighborhood of Granite Harbor, McMurdo Sound, on the

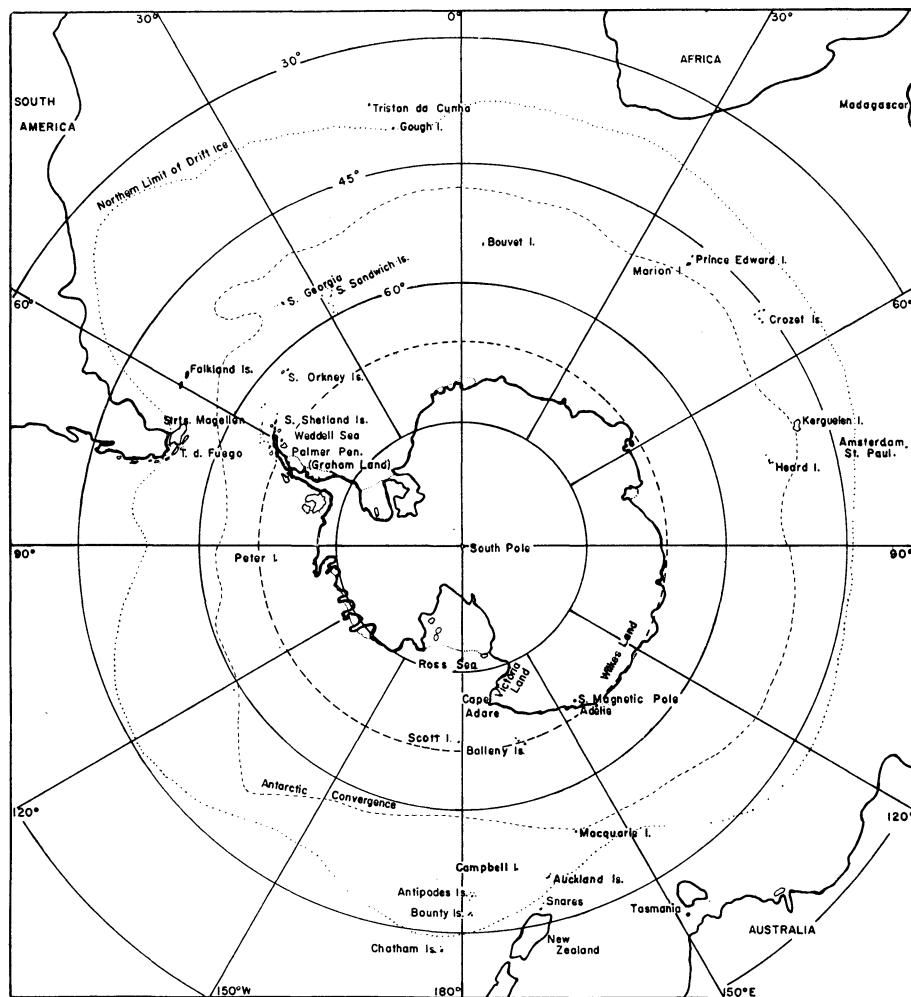


Fig. 1. Map of Antarctic-Subantarctic area, showing Subantarctic islands, "Antarctic Convergence", and northern limit of icebergs.

Victoria Land coast opposite Ross Island near the summer edge of the Ross Ice Shelf in the Ross Sea. These records include at least one springtail. Most of the recorded species, however, are from the Palmer Peninsula (Graham Land) or associated islands, which form the northernmost extent of the Antarctic continent.

The groups represented on Antarctica are the same as those known from the southern-most islands with insect records, which are near the Palmer Peninsula. Some of the species on the continent are also known from several of the Subantarctic islands, and this is particularly true in the mites. In the case of the lice, distribution is of course dependent on the occurrence of the hosts. As most of the bird hosts are rather wide ranging, those lice known only from Antarctica to date may later be found elsewhere within the range of the hosts. Records of lice from penguins are rather scarce. One of the pressing problems is to examine the systematics of all groups on a circumpolar basis to determine actual relationships.

**LIST OF TERRESTRIAL ARTHROPODS OF THE ANTARCTIC CONTINENT
(INCL. S. SHETLAND IS.)**

ARACHNIDA : ACARINA

MESOSTIGMATA

Gamasides

Ascaidae

<i>Gamasellus racovitzai</i> (Trouessart), 1903	Penguin rookery	Palmer Pen. 65°; S.
(<i>Gamasus</i>): Trägårdh 1908; Ewing 1945		Shetlands
Neoparasitidae		

<i>Hydrogamasus antarcticus</i> Trägårdh, 1908	? Moss	Paulet I., Gerlache 65°
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Laelaptidae

<i>Laelaps</i> (<i>Eulaelaps</i>) <i>grahamensis</i>		Graham Land
Trägårdh, 1908		

Zerconina

<i>Zercon tuberculatus</i> Trägårdh, 1908		Graham Land ; Gerlache 65°
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IXODIDES

Ixodidae

<i>Ixodes auritulus</i> Neumann, 1904; 1907;	Penguins	Palmer Pen. 65°; also
Johnston		Macquarie, etc.
<i>I. (Ceratixodes) putus</i> (Cambridge),		Port Lockroy, Palmer
1876; Johnston	<i>Phalacrocorax</i> , <i>Dio-</i> <i>medea</i> , penguins, etc.	Pen.; also Kerguelen, etc.

TROMBIDIFORMES

Eupodidae

<i>Penthaleus belli</i> Trouessart, 1903	? Lichens or algae	Cape Adare 71°
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Penthalodidae

Stereotydeus (<i>Tectopenthalodes</i>) vil-	Moss	Palmer Pen. 65-68
losus (Trouessart), 1903 (<i>Pentaleus</i>);		
Bryant 1945; Ewing 1945		
Rhagidiidae		
Nörneria gigas gerlachei Trouessart,	Moss	Palmer Pen.: Wandel
1903; Trägårdh 1907 (<i>Rhagidia</i>)		65°
SARCOPTIFORMES		
Glycyphagidae		
Chaetodactylus antarcticus (Trägårdh),		Gerlache 65°
1907 (<i>Trichotarsus</i>)		
ORIBATEI		
Eremaeidae		
Halozetes antarctica (Michael), 1903 (<i>Notaspis</i>); Dalenius & Wilson	Moss, lichens, tussocks, F. W., rookery	Wiencke I., Gerlache 65°-68°; Hallett 72°; S. Shetlands
Pertorgunia belgicae (Michael), 1903 (<i>Notaspis</i>); Ewing 1945; Bryant 1945; Dalenius & Wilson	Moss, lichens, stones	Palmer Pen. 65°-68°; Gerlache; Hallett 72°
Oribatulidae		
Maudheimia wilsoni Dalenius, 1958; Pryor 1959	Under stones, to -55°C	Maud Land 72°; Hallett 72°
Oribatula nordenskjoeldi Trägårdh, 1908		S. Shetlands, Falklands, T. d. Fuego
INSECTA		
COLLEMBOLA		
Poduridae		
Friesea grisea (Schäffer) Type loc.: S. Georgia; Wahlgren; (Syn.: Achoru- toides antarcticus Willem; Carl; Denis; Salmon)	Moss	Palmer Pen.: de Gerlach: Harry I.; S. Shetlands
Hypogastrura viatica (Tullberg); (Achoru- toides, Hack, 1949)		Palmer Pen.
Gomphiocephalus hodgsoni Carpenter, 1908.	Algal ponds	Granite Harbor, McMurdo 77°
Tullbergia mixta Wahlgren, 1906	Ponds	Graham Land 65°; S. Shetlands
Isotomidae		
Cryptopygus antarcticus Willem 1902; Wahlgren; (<i>C. crassus</i> , Ewing 1945)	Penguin rookery	Palmer Pen.: Harry I., Auguste I.; S. Shetlands;

<i>Isotoma octo-oculata</i> Willem 1902; Carl; Moss Enderlein		S. Georgia, Kerguelen, etc.
<i>I. octo-oculata kerguelensis</i> Enderlein, 1903		Palmer P. 65°; S. Shetlands, Macquarie, etc.
<i>I. klovstadi</i> Carpenter 1902 (<i>I. besselsi</i> Enderlein, 1912)		Graham L., S. Shetlands, Kerguelen
<i>I. sp.</i> Carl, 1907		Giekie Land, Macquarie, T. d. Fuego Palmer P. 65°
MALLOPHAGA		
	Amblycera	
	Meneponidae	
<i>Austromenopon</i> sp. (<i>Menopon</i> sp. Thompson, 1938)	<i>Diomedea exulans</i>	69°
<i>Piagetiella caputincisa</i> Eichler, 1950 (<i>Tetraphthalimus</i> sp. Clay, 1940)	<i>Phalacrocorax atriceps</i>	Argentine I., Graham L.
Ischnocera		
	Philopteridae	
<i>Austrogonoides antarcticus</i> Harrison, 1937	<i>Pygoscelus adeliae</i>	King George V Land
<i>A. mawsoni</i> Harrison, 1937	<i>Aptenodytes forsteri</i>	? King George V L.
<i>Saemundssonia cephalus</i> (Denny), 1842 (<i>Phil. pustulosus</i> Nitzsch; Harrison 1937)	<i>Catharacta skua</i> maccormacki	C. Royds 77°
<i>S. bicolor</i> (Rudow), 1870; Clay, 1940	<i>Priocella antarctica</i>	S. Shetlands
<i>S. lockleyi</i> Clay, 1949	<i>Sterna vittata georgiae</i> and <i>paradisaea</i>	Wiencke I. 65°, also Campbell I., Arctic, etc.
<i>S. stammeri</i> Timmermann, 1959	<i>Daption capense</i>	Antarctic seas
? <i>S. antarcticus</i> Wood in Harrison 1937 (probably a synonym, Clay <i>in litt.</i>)	<i>Pagodroma nivea</i>	King George V Land
<i>Docophoroides simplex</i> Waterston; Harrison 1937	<i>Macronectes giganteus</i>	King George V L.
<i>D. hunteri</i> Harrison, 1937	<i>Macronectes g.</i>	King George V L.
<i>Pseudonirmus charcoti</i> (Neumann), 1907; Harr. 1937	<i>Pagodroma nivea</i>	Palmer Pen. 65°
<i>P. gurlti</i> (Tasch.), 1882; Neumann 1907; Clay 1940	<i>Daption capense</i>	70°
<i>Plugubris lugubris</i> (Tasch.), 1882 (= <i>antarcticus</i> Harrison, 1937)	<i>Thalassoica antarctica</i>	King George V Land
<i>Perineus obscurus</i> (Rudow), 1869; Harr., 1937	<i>Macronectes giganteus</i>	King George V L.
<i>P. nigrolimbatus</i> (Giebel), 1874	<i>Priocella antarctica</i>	S. Shetlands
<i>Naubates robertsi</i> Clay, 1940	<i>Oceanites oc. exasperatus</i>	Argentine I.

ANOPLURA

Antarctophthirus ogmorrhini Enderlein, 1906	Hydrurga leptonyx, Lo- bodon carcinophagus	Palmer 65°; Victoria Land
A. lobodontis Enderlein, 1907	Lobodon c.	Gerlache: Booth- Wandel; Argentine I.
A. mawsoni Harrison, 1937	Ommatophoca rossi	King George V Land
A. sp. Harrison, 1937	Leptonychotes weddelli	King George V L.
A. sp. Clay, 1940	Leptonychotes W.	Argentine I.
Echinophthirus ? horridus (Olfers), 1816 (E. setosus Lucas; Rothschild ? phocae, Enderlein, 1909)	Hydrurga leptonyx	no./loc

DIPTERA

Chironomidae

Clunioninae

Belgica antarctica Jacobs, 1900; Rübsaa- Marine shores
men, 1906; Enderlein, 1909 c; Keilin,
1912, 1913; Edwards, 1926, 1931;
Wirth, 1949; Torres, 1953.

de Gerlache Strts.
and Arch. Melchior,
Palmer Pen. 65°

Podonominae

Podonomus steineni (Gercke), 1889; Marine algal flats
(*Tanypus*); Enderlein, 1912, 1930 a;
Edwards, 1931; Torres, 1956.

King George I., S.
Shetlands 62°; also
S. Georgia

Note: Marine Acarina are not included. Two species of Psocoptera and one of Collembola taken by the German South Polar expedition were considered by Enderlein (1909c) to have come off of the expedition's ship.

THE FAUNA OF THE SUBANTARCTIC ISLANDS

In general, the terrestrial arthropod fauna of the Subantarctic islands is similar to that of Antarctica, but with more groups represented (see Table 1.). The main contrast is dominance of flies, beetles and spiders, except in the most southerly isles. This corresponds to a considerable degree with the situation in the Arctic fauna (Weber, 1950, 1954).

There is a wide range of latitude in the islands treated in Table 1, and some are well outside the "Antarctic convergence". However, there is a general similarity in faunal make-up relating to the isolation, rigors of the environment, and other factors. All the islands are small, and are subjected to extreme conditions of strong winds and low temperatures. The South Sandwich Islands (56°–60° S. latitude) are not included in the table, and apparently no insects have been recorded from them. They are volcanic and largely covered with glaciers.

In comparing faunae of Subantarctic isles with oceanic isles of similar size in the tropical Pacific, a number of contrasts are evident in terms of relative representation. Most conspicuous is the scarcity of homopterans and heteropterans on the Subantarctic islands,

as compared with their great abundance on the tropical oceanic islands. On the latter, they comprise about 10% of the insect fauna, while on the Subantarctic isles they constitute only about 1%. Likewise the Hymenoptera on the tropical isles seem to make up between 5 and 10% of the insect fauna, whereas on the Subantarctic isles they seem to constitute only about 1%. Ants are apparently particularly scarce on the Subantarctic isles, whereas many have been distributed by man to tropical isles. The Orthoptera and Psocoptera also appear to be very poorly represented on the Subantarctic islands, each comprising only about 1% of the total fauna.

LOSS OF FLIGHT

An important characteristic of the pterygote fauna of the general area is loss of flight potential. This has been cited in many evolutionary works, and often attributed to positive selection for individuals which do not take flight, and those with smaller wings. This relates to the fact that those insects taking flight are more likely to be blown off into the ocean and not reproduce. Although loss of flight potential in some groups of pterygote insects is common on small islands in general, it appears to be more conspicuous on the more southern islands where severe winds are more general (Hudson 1909a; Jeannel, 1940c; Salmon & Bradley).

In treating flightless moths of Campbell Island, Salmon (in Salmon and Bradley, 1956) states: "In discussing these moths with me and in his notes, Mr. Sorensen has laid great stress on their ability to leap and their superficial resemblance to small grasshoppers. When touched or otherwise disturbed, nearly all of these brachypterous species fall to the ground and sham death. If left, they 'revive' after a moment or two and begin to crawl about quickly; when amongst the tussock they are very difficult to see. This habit seems worthy of note as, according to Sorensen, the only natural enemy they could have had in the past was the pipit, *Anthus novaeseelandiae*, and it is doubtful whether this bird was ever sufficiently abundant on Campbell Island to have caused the development of this habit. Of the introduced passerine birds, Sorensen says: 'I cannot say that I have ever seen them taking these moths'....When leaping, these flightless moths are apparently assisted to some extent by the abbreviated wings, for Sorensen has told me that after landing on a tussock or fern they almost invariably fold their wings and drop down amongst the dead leaves or fern beneath the tussock. During the leap the wings are held outstretched and possibly have a gliding function".

Apparently many of the winged insects do very little flying and are sluggish, whereas brachypterous or apterous species may be very active. Of a winged tineid moth, *Proterodesma byrsopola*, on Auckland Island, Hudson (1909a) stated: "This insect is extremely sluggish, and the female must be almost, if not entirely, incapable of flight". Of one fully winged fly, *Polytocus spinicosta*, on Auckland Island, Hudson (1909a) wrote: "No specimens were observed on the wing, and all those found were very sluggish, and never attempted to use their wings for flight." Of a wingless fly, *Zaluscodes aucklandicus*, on the same island, Hudson also wrote: "This remarkable species was common in damp places in forest, Carnley Harbour. It runs rapidly over the ground, like a small harvestman spider".

In Table 2 some figures are presented to indicate degree of loss of power of flight of pterygote insects on various islands. Although flightless beetles are abundant in many

areas among some of the groups (Carabidae, Staphylinidae, Tenebrionidae, Curculionidae) which are dominant on southern islands, such a high proportion of wingless or brachypterous moths and flies (exclusive of Phoridae) is not met with on most small tropical oceanic islands. Other pterygote groups with brachypterous or apterous representatives include Orthoptera, Hemiptera and Hymenoptera, as well as Psocoptera or others which are frequently wingless. Among the families with brachypterous or apterous species (exclusive of Coleoptera) are Delphacidae, Enicocephalidae (Hemiptera); Tineidae, Hyponomeutidae, Cosmopterygidae, Elachistidae, Tortricidae (Lepidoptera); Limnobiidae, Chironomidae, Dolichopodidae, Coelopidae, Cypselidae, Ephydriidae, Anthomyidae (Diptera); Diapridae and Ichneumonidae (Hymenoptera).

Table 2. Percentage of brachypterous or apterous insects of winged orders

	Orthoptera	Hemiptera	Lepidoptera	Coleoptera	Diptera	Hymenoptera
Antarctica					100	
S. Shetland					0	
S. Georgia			100?	100		0
Falkland	100?	?	?	70	35	?
Tristan da Cunha				90	?	
Marion			100	100	100	
Crozet	100		100	100	43	
Kerguelen			100	100	42	
Heard			100			
St. Paul	100		50	100		
Amsterdam			29	100		
Macquarie			0	100	37	100
Campbell	100		33	90	10?	
Auckland	100		6?	80	4?	75*
Antipodes			20		15	
Bounty	100		0	50	33	

* Males are winged.

Note: Species probably introduced by man are excluded from consideration. Some of the figures are estimates. A "O" indicates order is represented by one or more winged species only (see Table 1).

ZOOGEOGRAPHY

Many references have been made to faunal relationships of insects of the southern continents (Wittmann 1934), but this matter will not be dealt with here. We may simply state that in some groups extremely close relationships appear to exist between faunal elements of the southern continents. Such relationships appear to be conspicuous particularly in the New Zealand fauna, where there are many ties with southern South America.

Some workers have attributed these relationships to a former Antarctic connection, while others feel that spread was by means of more or less continuous indirect connections which have existed in the past, by way of Asia, the "Bering bridge" and North America (Gressitt, 1958).

It is well known that the climate of Antarctica was once much warmer than it is today. Plant fossils, including extensive coal deposits, have been found on the Antarctic continent. The ancient *Glossopteris* flora which characterized the supposed ancient land mass ("Gondwanaland"), has been found in the fossil record in various southern areas. Besides the ancient relationships, there are many contemporary similarities of the southern continents, such as the extensive *Nothofagus* forests, and the range of the genus *Araucaria*, and others. These relationships are also invoked as evidence for the theory of continental drift. Before long, evidence may be forthcoming to settle the dispute as to whether continental drift occurred or not, and if so, whether or not it took place after the emergence of higher animals and plants.

Among the mammals, whose fossil history is rather well known, the picture is different. Some mammalogists show by extensive evidence that even though there are southern relationships, as with the marsupials, the route of dispersal was most likely across the past land bridges of the Bering Arc between Siberia and Alaska (Darlington, 1957). The historical picture for the insects, however, is much less clear and less complete than with plants and mammals. The fossil record is relatively meager, particularly considering the relative numbers of existing species. To date no fossil insects have been reported from Antarctica, and only one has been recorded from a Subantarctic island (Holm, 1912). Thus there is little to supplement deductions based on current representation, which is of course meager.

Various lines of evidence suggest that the present deeper ocean bottoms are quite ancient. Likewise, it appears that the Subantarctic islands are mostly of great age, and that some have not been very much larger than at present. That those must have been somewhat larger is obvious from erosion patterns, and that they once had milder climates seems inevitable. It has been stated (Jeannel, 1940) that the islands near South America and New Zealand are of continental origin, with old sedimentary rocks, whereas those from Tristan da Cunha to Amsterdam I. are oceanic. If no general southern land mass existed after evolution of insects, the Subantarctic isles may have served as "stepping stones" for dispersal, particularly during more favorable climatic periods.

Two factors of particular significance in Antarctic zoogeography are winds and birds that may bring the land arthropods to the Antarctic continent. The region is well known to be one of the windiest parts of the earth and the gales of Cape Horn were notorious in sailing ship days before the Panama Canal was built. Mites and *Collembola*, the most characteristic of the non-parasitic land arthropods here, are among those regularly taken in aerial surveys in other parts of the world. Spiders are apparently not able to stand the most rigorous climates although they, too, are carried by the winds. Suspended by strands of silk, a ballooning effect is produced that has enabled them to be widely dispersed in Arctic areas, and some Subantarctic islands.

Extensive bird banding in recent years has been highly successful in tracing extensive movements of birds in South Polar regions. A circumpolar distribution of some species has been proven. Giant petrels, banded extensively in South Orkney, have been recovered over the width of Australia, in Tasmania, New Zealand, South Africa and Peru (Sladen

and Tickell, 1958). This and other species are clearly circumpolar as species if not as individuals. While these birds harbor Mallophaga and in some cases ticks, they should be investigated as accidental carriers of other arthropods. When they arrive at their rookeries after a long flight, a more favorable opportunity for establishment is presented than if they merely alight at a site inhospitable to arthropods. The fauna of the rookeries should therefore warrant close investigation.

The present fauna of the Subantarctic islands seems to contain some ancient relics of former southern-dispersed forms. But other elements suggest that the islands have an oceanic type of disharmonic faunal make-up, largely the result of waif dispersal over ocean. Thus the fauna of some of the islands may be the result of accidental over-water dispersal from distant continental areas during considerable periods of time after the islands were elevated from sea bottom by volcanic action. Further light on the geological histories of the various islands, together with better understanding of the fauna and its relationships, will help answer the question of the origin, dispersal and evolution of the Antarctic-Subantarctic terrestrial arthropod fauna.

ANNOTATED BIBLIOGRAPHY

- Admadjian, V. 1959. Antarctic lichen algae. Carolina Tips (Carolina Biol. Supply Co., N. C.). **21** (5): 17-18. (Plant environment of land invertebrates.)
- Alexander, C. P. 1953. New or little-known Tipulidae (Diptera). XCV. Oriental-Australasian species. Ann. Mag. Nat. Hist. ser. 12, **6**: 739-57. (Erioptera antipodarum).
- 1956. The Diptera of Auckland and Campbell Islands, Part II. The craneflies of the Subantarctic islands of New Zealand. Dom. Mus., Rec., Wellington **2** (4): 233-9, 2 figs. (12 spp., Erioptera n. sp. Campbell I.; none flightless).
- Allard, E. 1890. Troisième note sur les Galerucides. Soc. Ent. Belg., Bull. **36**: LXXX-XCIV (p. XCI, Falkland Is., 1 sp.)
- Alluaud, C. 1925. Faune et flore de Tristan da Cunha. Soc. Biogeog., C. R., Paris. **2**: 116-9. (About 17 spp. insects).
- Anastos, G. 1954. Description of a tick, *Ixodes percavatus* Neuman, 1906, from Tristan da Cunha. Res. Norwegian Exped. Tristan da Cunha, 1937-8, Oslo **27**: 4, 1 figs.
- André, E. 1900. Thynnidae. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. **44**: 105 (2 spp., Strts. Magellan).
- André, M. 1947. Acariens. Croisière du Bougainville aux îles australes françaises. Mus. d'Hist. Nat. Paris, Mem. ser. 2, **20**: 65-100, 9 figs. (Mites: Kerguelen, 4; Crozet, 2; Marion, 1; St. Paul, 3; Ticks: Kerguelen, 3).
- Archey, G. 1923. A new genus of Chilopoda from Brit. Guiana, and a new species of Wailamyctes from Auckland Is. Canterbury Mus., Rec. Christchurch **2**: 113-6, 1 pl.
- Attems, Carl. 1897. Myriopoden. Ergebni. Hamb. Magalhaensischen Sammlr., 1982-93. **2**, Arthrop. (2): 1-3, 4 figs.
- 1940. Myriopodes. Croisière du Bougainville aux îles Australes françaises. Mus. d'Hist. Nat. Paris, Mem. ser. 2, **14**: 271-82, 23 figs. (2 Diplop., 2 Chilop.; St. Paul).
- Austen, E. E. 1913. Diptera from the Falkland Island, with description of a new genus and two new species. Ann. Mag. Nat. Hist. ser. 8, **12**: 498-503. (Dolichopod.: Hy-

- crophorus sp.; Calliphor. : C. erythrocephala; Syrph.: Melanostoma n. sp.; Doryom. : Pezomyia n. g., wings minute, 1 sp.)
- Badonnel, A. 1947. Psocoptères. Croisière du Bougainville aux îles australes françaises. Mus. d'Hist. Nat. Paris, Mem. ser. 2, **20** : 25-30, 15 figs. (*Antarctopsocus jeannelli* n. sp., Marion I.; *Hyperetes Guestifalicus* Kolbe, St. Paul I.).
- Balech, E. 1954. Division zoogeografica del litoral sudamericano. Rev. Biol. Mar., Santiago **4** (1-3) : 184-95.
- Banks, Nathan. 1914. Arachnida from S. Georgia. Brooklyn Mus. Inst. Arts Sci. Bull. **2** : 78-9, 1 fig. (Theridiidae n. sp., Acari).
- Becker, T. 1906. Diptera. Exped. Antarctique Belge, Resultats voy. S. Y. Belgica en 1897-1898-1899, Rap. Sci. Zool. : 73-74. (Scatophila, from Tierra del Fuego).
- Behrens, W. J. 1887. Zwei neue Pythiden. Stett. Ent. Ztg. **48** : 18-22, 1 pl. (2 n. gen. from S. Georgia I.).
- Beier, M. 1955. Pseudoscorpione von Tristan da Cunha. Res. Norwegian Exped. Tristan da Cunha, 1937-8, Oslo **35** : 7-10, 2 figs.
- Bequaert, J. (See Frey, R.)
- Berg, C. 1895. Hemipteros de la Tierra del Fuego coleccionados por el Señor Carlos Backhausen. Mus. Nac. Hist. Nat., Buenos Aires, An. **4** : 197-206.
- 1896. Contribution al estudio de los Hemipteros de la Tierra del Fuego. *op. cit.* An. **5** : 131-7.
- 1899. Mus. Nac. Hist. Nat., Buenos Aires, Comun. **1** : 57-67 (p. 64, Tierra del Fuego).
- 1900. Apuntes sobre dos especies del genero Okyneura de la Tierra del Fuego. 1. c., 237-40.
- Berland, L. 1937. Les Araignées des archipels de l'Atlantique au point de vue de leur Biogeographie. Int. Congr. Zool., Lisboa **12** : 1127-31.
- 1947. Araignées. Croisière du Bougainville aux îles australes françaises. Mus. d'Hist. Nat. Paris, Mem. ser. 2, **20** : 53-64, 18 figs. (10 spp.: 2 Kerguelen, 1 Heard, 6 Crozet, 2 Marion, 7 St. Paul).
- Berlese, A. 1916. Centuria prima di Acari nuovo. Redia **12** (1) : 19-67. (Some southern S. America).
- 1917. Acariens. Deuxième Exped. Antarctique Française, 1908-10. Doc. Sci., pp. 1-11, 1 pl. (Graham Land).
- 1921. Centuria quinta di Acari nuovi. Redia **14** : 143-195. (Pacific, southern S. America).
- Bernhauer, M. 1938. Voyage de M. Aubert de la Rue aux îles Kerguelen. Die Gattung *Antarctophytosus* Enderlein (Coleoptera Staphylinidae). Rev. Franç. d'Ent. **5** (2) : 91-4. (2 spp.).
- Bezzi, Mario. 1927. Some Calliphoridae (Dipt.) from the south Pacific Islands and Australia. Bull. Ent. Res. **17** : 231-47. (Auckland, Campbell Is.).
- Blanchard, E. 1851. (Coleoptera) In Gay, Hist. Chile, Zool. **5** : 352.
- 1853. Voyage au pôle sud. **4** : 1-422 (pp. 22-43, 88, 175, 203, 208, Coleopt., Auckland Is.).
- Boileau, H. 1906. (See Rousseau *et al.*).
- Börner, C. 1902. Über die Gliederung der Laufbeine der Atelocerata Heymons. Ges. Naturl. Freunde Berlin, Sitz. B. **1902** : 205-29, 2 pls. (Collembola from Kerguelen).

- _____. 1903. Das Genus *Tullbergia* Lubbock. Zool. Anz. **26**: 123-31. (1 sp. Strts. Beagle).
- Bourgeois, J. 1900. Dascillidae. Diagnoses d'insectes recueillis par l'expedition Antarctique Belge. Soc. Ent. Belg., Ann. **44**: 111 (1 sp., Strts. Beagle).
- _____. 1906. (See Rousseau *et al.*).
- Bovie, A. 1906. (See Rousseau *et al.*, p. 47).
- Breddin, G. 1897. Hemiptera. Ergebni. Hamb. Magalhaensischen Sammeli. 1892/93. **2** Arthrop., 1-16, 17-37, 1 pl.
- Brehm, V. 1936. Ueber die tiergeographischen Verhältnisse der circumantarktischen Süßwasser fauna. Biol. Rev., London **11** (4): 447-93.
- Brenske, E. 1900. Scarabaeidae. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. **44**: 109-110 (2 spp. Strts. Magellan.).
- _____. 1906. (See Rousseau *et al.*).
- Brethes, J. 1925. Un Coléoptère et un Diptère Nouveaux de la Georgie du Sud. Mus. Nac. Hist. Nat. Buenos Aires, Commun. **2**: 169-173, 2 figs. (*Austromalota rufimixta* (Staph.) n. g., n. sp.; *Trichocerodes georgianus* (Rhyphidae) n. g. sp.).
- Brinck, Per. 1945. Coleoptera. Sci. Res. Norwegian Antarctic Exped. Norske Videnskaps-Akad., Oslo. **2** (24): 1-23, 10 figs. (S. Georgia: 1 dytiscid genus in S. Am., S. Atl., Austr., Tasm., NZ; 2 staph.; 1 ptinid, subcosmopolitan; 2 tenebrion., sometimes found on snow; rest endemic. Crozet J.: 2 carab.; 2 staph.; 1 pselaph.; 4 weevils, all endemic; all genera on S. Atlantic is.).
- _____. 1948. Coleoptera. Res. Norwegian Exped. Tristan da Cunha, 1937-8, Oslo. **17**: 121 pp., 1 pl., 25 figs. (Origin of fauna).
- _____. 1950. The beetle fauna of Tristan da Cunha. 8th Int. Congr. Ent., Proc.: 361-4. (8 families: Dytisc., Hydrophil., Ptil., Staph., Cucuj., Lathrid., Oedemer., Curculion. Some spp. cosmopolitan; immigr. by wind; only 2 of the 20 endem. having flying wings).
- Bristowe, W. S. 1931. Spiders collected by the Discovery Exped., with a description of a new species from So. Georgia. Discovery Reports, Cambridge. **3**: 261-6, 1 fig. (1 sp., S. Georgia).
- Brookes, A. E. 1951. The Coleoptera of the Auckland and Campbell Islands. Cape Exped.—Sci. Res. New Zealand Sub-Antarctic Exped. 1941-45. Wellington. Cape Exped. Ser. Bull. **5**: 1-68. (8 families).
- Broun, T. 1880. Manual of New Zealand Coleoptera. (Spp. from Auckland I. on pp. 485, 491, 507).
- _____. 1885. (Coleoptera). New Zealand Inst. Sci., Bull. **2**: 387. (Auckland I.).
- _____. 1902. (The beetles of the Auckland Islands). New Zealand Inst., Trans. **34**: 176-9. (3 n. spp. described in paper by Hutton).
- _____. 1904. Description of a new coleopterous insect from Bounty Island. Ann. Mag. Nat. Hist. ser. 7, **14**: 273-4. (Thomisis).
- _____. 1905. Descriptions of a new genus and four new species of Coleoptera from New Zealand. op. cit., **15**: 543-7. (1, Auckland I.).
- _____. 1909. Descriptions of Coleoptera from the Subantarctic islands of New Zealand. The Subantarctic island of New Zealand. Wellington. **1**: 87-123, pl. 3. (46 spp. of 7 superfamilies).

- Bruch, C. 1924. Algunos Coleopteros de la Tierra del Fuego. Soc. Cient. Argent., An. **98**: 231-40, 2 pls.
- Brues, C. T. 1920. A new genus of Diapriidae from Macquarie Island. Australasian Antarctic Exped., 1911-14, Sci. Rep. (C) **5** (8): 27-8, figs. (Hym.; see Tillyard).
- Brunner von Wattenwyl, Carl. 1893. Revision du système des orthoptères et description des espèces rapportées par M. Leonardo Fea de Birmanie. Mus. Stor. Nat. Genova, Ann. ser. 2, **13**: 1-230 (Auckland I.).
- 1900. Orthoptères. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. **44**: 112-3. (1 sp., n. g., S. Chile).
- Bryant, H. M. 1945. Biology at East Base, Palmer Peninsula, Antarctic. (U. S. Antarctic Service Exped., 1939-41). Amer. Philos. Soc., Proc. **89** (1): 256-69, 29 figs. (Field notes on Collembola: "Proisotoma", and mites: Halozetes spp. and Stereotydeus).
- Butler, A. G. 1846-7. Insects. Zoology of the voyage of H. M. S. Erebus and Terror..., 1839 to 1843. Ins. pp. 25-51. (New Zealand and Auckland Is.; Lepidoptera, etc.).
- 1876. Descriptions of five new species of Gonyleptes. Linn. Soc. Lond., Jour. **12**: 151. (1 n. sp., Opiliones, Falkland Is.).
- Cabrera, A. J. Yépes. 1947. Zoológica. EN Geografía de la República Argentina. Gaea, Buenos Aires **8**: 347-83.
- Cambridge, O. P. 1876. On a new order and some new genera of Arachnida from Kerguelen's Island. Zool. Soc. Lond., Proc. **1876**: 258-65, pl. 19 (Acaridea, new order, with n. genn., n. spp.; 4 mites, 1 spider).
- 1878. Arachnida. IN Zoology of Kerguelen Island. Transit of Venus Exped. Royal Soc. Lond., Philos. Trans. **168**: 219-27, 4 figs., pl. 13 (Reprint from Zool. Soc. Lond., Proc. **1876** 259-65).
- Cameron, M. 1917. On a new group of Staphylinidae. Ent. Mo. Mag. **53**: 123-4. (Arpediopsis, n. gen., n. sp., wings rudimentary; Falkland Is.).
- 1944. New species of Staphylinidae (Col.) from the Falkland Islands. Ann. Mag. Nat. Hist. ser. 11. **11**: 618-21. (Acticola, 1 n. sp.; Chilodera, 1 n. sp.).
- 1947. New species of Staphylinidae (Col.) from New Zealand. op. cit., **14**: 723-31. (Auckland I.).
- Cameron, P. 1909. Descriptions of four species of Hymenoptera from Auckland Island. The Subantarctic islands of New Zealand. Wellington. **1**: 75-7, pl. 3 (Ichneumonidae, Braconidae).
- Carl, M. J. 1907. Arthropodes, Collemboles. Exped. Antarctique Française (1903-1905). Sci. Nat.: Doc. Sci. pp. 2-4 (4 spp.: Achorutoides antarcticus Willem; Cryptopygus antarcticus Willem; Isotoma octo-oculata Willem; Isotoma sp.: Palmer Peninsula. 65°, Booth-Wandel I.).
- Carpenter, G. H. 1902. Insecta Aptera, IN Report on Collections, Voyage of Southern Cross, pp. 221-3, pl. 47 (British Mus.). (1 sp.: Isotoma klovstadi, near a sp. from Tierra del Fuego; Geikie Land, Robertson Bay, 71° 40', 169° 50', among lichens.).
- 1907. Collembola from the South Orkney Islands. Scottish National Antarctic Exped. (Scotia collections). R. Soc. Edinburgh, Proc. **26**: 473-83, 2 pls. (Isotoma brucei n. sp. I. Octo-oc. v. gracilis n.; Cryptopygus crassus n. sp.).
- 1908. Insecta Aptera. National Antarctic Exped. Discovery Rep., Nat. Hist. **4** (Zool.): 1-5, 1 pl. (1 podurid: Gomphiocephalus hodgsoni; Granite Harbour, 77° S.,

- McMurdo Sound, opp. Ross I.).
- 1909 a. Collembola from the South Orkney Islands. Reprinted from Royal Soc. Edinburgh, Proc. 1907, **26**: 473-83; Rep. Voy. Scotia **5**: 53-60.
 - 1909 b. On some sub-antarctic Collembola. The Subantarctic islands of New Zealand, Wellington. **1**: 377-83, fig., pl. 17 (2 spp.).
 - 1921. Collembola. British Antarctic (Terra Nova) Exped., 1910. Nat. Hist Rep., Zool. **3**: 259-67, pl. 1. (Redescription of *Gomphiocephalus hodgsoni* Carp.: "Southernmost free-living insect". Lives under ice-film on ponds; or in bunch floating on pool. Also Macquarie and Campbell I.).
 - 1925. Some Collembola from southern New Zealand. Manchester Lit. Phil. Soc., Mem. **69**: 88-120, 44 figs. (*Lepidophorella australis*, Campbell I.).
- Champion, G. C. 1916. A new genus of Pythidae (Coleoptera) from the Falkland Islands. Ann. Mag. Nat. Hist. ser. 8, **17**: 311-13. (*Posphyllax*, 1 sp., wingless).
- 1918 a. Notes on various South American Coleoptera collected by Charles Darwin during the voyage of the "Beagle", with descriptions of new genera and species. Ent. Mo. Mag. **54**: 43-55. (10. n. spp., Tierra del Fuego).
 - 1918 b. The Coleoptera of the Falkland Islands. Ann. Mag. Nat. Hist. ser. 9, **1**: 167-86. (Enderlein recorded 34 spp. Col. 16 apterous Curculion., 9 Carab.: winged ones along shore-nonendemic, 3 Tenebrion.: apterous; 1 each: Dytisc., Staph., Silph., Byrr., Chrysom.—doubtful. Additional to Enderlein: 2 families (1 sp. each): Lathrid., Pytid., 6 apterous Curculion., 2 staphs, 1 byrr., also several minute staphs. Total 44 spp.).
- de Chaudoir, M. 1842. Description de quelques genres nouveaux de la famille des carabiques. Bull. Moscou **15**: 832-57. (p. 854, Auckland Is.).
- China, W. E. 1958. Hemiptera of Tristan da Cunha. Res. Norwegian Exped. Tristan da Cunha, 1937-8, Oslo. **43**: 1-8, 1 fig. (5 spp.).
- Chopard, L. 1940. Dictyoptères et Dermapteres. Croisière du Bougainville aux îles australes françaises. Mus. d'Hist. Nat. Paris, Mem. ser. 2, **14**: 269-70. (*Blatella germanica*, *Anisolabis annulipes*; St. Paul I.).
- Clay, T. 1940. Anoplura (+Mallophaga). British Graham Land Exped., 1834-37, Sci. Rep. London, British Mus. (N. H.) **1**: 295-318, 1 pl., 11 figs. (Some wide-distr. spp.: 4 spp. Ant., 4 each Falklands, S. Georgia and S. Shetlands; hosts: seals, sea birds).
- 1949. Species of the genus *Saemundssonia* (Mallophaga) from the Sternidae. Amer. Mus. Novit. **1409**: 25 pp., 31 figs. (*S. lockleyi* on *Sterna paradisaea*, Arctic and Antarctic).
- Clifford, H. T. 1957. New records for Antarctic mosess. Austral. Jour. Sci. **20** (4): 115. (Moss environment of land invertebrates; biblio.).
- Crichton, M. I. 1951. Some Hippoboscidae (Diptera) from Tristan da Cunha. Ent. Mo. Mag. **87**: 21-2. (2 spp.).
- Curtis, J., A. J. Haliday, and F. Walker, 1837-44. Descriptions of the insects collected by Captain P. P. King, R. N., F. R. S., in the survey of the Straits of Magellan. Linn. Soc. Lond., Trans. 1837, **17**: 315-59; 1839, **18**: 181-205; 1845, **19**: 441-475; Ann. Mag. Nat. Hist., 1838, ser. 2, **1**: 318-20; 1844, **14**: 218-22. Illustr.
- Dalenius, Per and Ove Wilson. 1958. On the soil fauna of the Antarctic and of the Sub-

- Antarctic islands. The Oribatidae (Acari). *Arkiv f. Zool.* ser. 2, **11** (23) : 393–425, 12 figs. (21 spp., 3 from Antarctic continent, 20 from Subantarctic islands).
- Dana, J. D. 1853. On an isothermal oceanic chart, illustrating the geographical distribution of marine animals. *Amer. Jour. Sci. Arts* ser. 2, **16** : 153–67, 314–27.
- Darlington, P. J. Jr. 1957. *Zoogeography: The geographical distribution of animals*. John Wiley and Sons, New York. xi and 675 pp., 80 figs.
- Davies, W. M. 1935. The Collembola. IN J. W. S. Marr: *The South Orkney Islands. Discovery Reports*, Cambridge **10** 379–80. (1 sp.).
- Denis, J. R. 1946. Collemboles recoltes par l'expedition antarctique belge du S. Y. *Belgica* (1897–1899). *Mus. Nat. Hist. Belg.*, Bull. **22** (3) : 1–2, 1 fig. (*Friesea grisea*, *Cryptopygus antarcticus*; *Auguste I.*, Strts. Gerlache).
- 1947. Collemboles. Croisière du Bougainville aux îles australes françaises. *Mus. d'Hist. Nat. Paris, Mem. ser. 2*, **20** : 31–51, 50 figs. (9 spp. Kerguelen, 1 Crozet, 1 Marion, 2 St. Paul.).
- Dumbleton, L. J. 1953. The ticks (Ixodoidea) of the New Zealand sub-region. *Cape Exped. Ser. (D. S. I. R., Bull.)* **14** : 1–28, 4 pls.
- Duvivier, A. 1883. Enumeration des staphylinides décrits depuis la publication du catalogue de MM. Gemminger et de Harold. *Soc. Ent. Belg.*, Ann. **27** (2) : 91–215. (Auckland I., pp. 77, 199, 200).
- Eaton A. E. 1875a. First report of the naturalist attached to the Transit-of-Venus Expedition to Kerguelen's Island, December 1874. *Royal Soc. Lond., Proc.* **23** : 351–6. (Insects, 354–5).
- 1875b. Notes on the entomology of Kerguelen's Island. *Ent. Mo. Mag.* **12** : 1–2. (Extract of preceding item).
- 1875c. Breves dipterarum uniusque lepidopterarum insulae kerguelensi indigenarum diagnoses. *t. c.* 58–61. (6 Dipt., incl. *Halirytus*; Lep.).
- 1879. Observations on insects collected in Kerguelen's Island. *Royal Soc. Lond., Philos. Trans.* **168** : 227–9. Also Lepidoptera, pp. 235–7, pl. 14; Neuroptera (Corrodentia), p. 248.
- Edwards, F. W. 1923a. Notes on the dipterous family Anisopodidae. *Ann. Mag. Nat. Hist. ser. 9*, **12** : 475–93, 1 pl., 3 figs. (*Nothotrichocera* n. sp., Campbell I.).
- 1923b. A preliminary revision of the crane-flies of New Zealand (Anisopodidae, Tanyderidae, Tipulidae). *New Zealand Inst., Trans. Proc.* **54** : 265–352 (Auckland I.).
- 1924. New species of crane-flies collected by Mr. G. V. Hudson in New Zealand. Part II. *Ann. Mag. Nat. Hist. ser. 9*, **13** : 159–63. (*Gynoplistia* n. sp., Auckland I.).
- 1926. On marine Chironomidae (Diptera); with descriptions of a new genus and four new species from Samoa. *Zool. Soc. Lond., Proc.* **51** : 779–806. (*Belgica*, p. 788).
- 1931. Chironomidae. Diptera of Patagonia and South Chile. *British Mus. (N. H.)* **2** : 233–316. (*Belgica*, p. 234).
- Eichelbaum, F. 1909. Katalog der Staphyliniden Gattungen nebst angabe ihrer Literatur, Synonymie, Artenzahl, geographischen Verbreitung und ihrer bekannten Larvenzustände. *Soc. Ent. Belg.*, Mem. **17** : 71–280.

- Eichler, W. 1949. Notulae mallophagologicae XV. Sturmvogel—Federlinge. Rev. Brasil. Biol. **9**: 337–47, 31 figs. (*Perineus diomedae* n. subsp.). Kerguelen; *Pelmatocerandro* n. sp., S. Georgia; *Procellarphaga* n. g.).
- Eklund, C. 1956. Antarctic fauna and some of its problems. Antarctica in the International Geophysical Year. Geophys. Monogr. **1**: 117–23. (pp. 118–9, terrestrial and freshwater fauna).
- 1959. Ornithological studies. IGY Bull., Nat. Acad. Sci., Washington **21** (March): 7. (Distr. birds).
- Enderlein, Günther. 1901a. Zur Kenntniss der Flöhe und Sandflöhe. Neue und wenig bekannte Puliciden und Sarcopsylliden. Zool. Jahrb., Syst. **14** (6): 549–57, 2 figs., pl. 34. (1 n. sp. flea, St. Paul I.).
- 1901b. *Meropathus Chuni* nov. gen., nov. spec. Eine neue Helophorinen-gattung von der Kerguelen-Insel. Zool. Anz. **24**: 121–4, 6 figs. (Hydrophil.).
- 1903. Die Landarthropoden der von der Tiefsee-Expedition besuchten antarktischen Inseln. (I. Kerguelen; 2. St. Paul, Neu-Amsterdam). Wissensch. Ergebn. der deutschen Tiefsee-Expedition auf dem Dampfer "Valdivia" 1898–1899. Jena **3**: 197–270, pls. 31–41, (Arachnida, Myriopoda, Insecta).
- 1904a. Die Rüsselkäfer der Crozet-Inseln, nach dem Material der Deutschen Südpolar-Expedition. (4. Beitrag zur Kenntnis der antarktischen Fauna). Zool. Anz. **27**: 668–75, 5 figs. (3 n. spp.).
- 1940b. *Phthirocoris*, eine neue zu den Henicocephaliden gehörige Rhynchoten-Gattung von den Crozet-Inseln und *Sphigocephalus* nov. gen. (5. Beitrag zur Kenntnis antarktischer Landarthropoden). t. c. 783–8, 5 figs. (1 n. sp., Crozet).
- 1904c. *Lepidophthirus* nov. gen., eine Laus der Elefantenrobbe von der Kerguelen-Insel. (6. Beitrag zur Kenntnis der antarktischen Fauna). op. cit., 43–7, 5 figs. (1 n. sp.).
- 1905a. Die Laufkäfer der Crozet-Inseln, nach dem Material der Deutschen Südpolar-Expedition. (7. Beitrag zur Kenntnis der antarktischen Fauna). Zool. Anz. **28**: 716–22, 4 figs. (2 n. spp. of 2 n. gen.).
- 1905b. Die Plecoptern Feuerlands. (8. Beitrag zur Kenntnis der antarktischen Landarthropoden). t. c. 809–15, 5 figs. (5 spp., 3 new; 1 n. gen.).
- 1905c. Eine neue Fliegengattung von den Falklands-Inseln. Zool. Anz. **29**: 69–71. (Limnobiidae: *Zalusa* n. g. reduced Wings, long haltere.).
- 1905d. *Pringleophaga*, eine neue Schmetterlingsgattung aus dem antarktischen Gebiet. (10. Beitrag zur Kenntnis der antarktischen Landarthropoden). t. c., 119–25, 5 figs. (2 n. spp., 1 n. var.; Kerguelen and Crozet).
- 1905e. Eine neue Copeognathe von den Falklands-Inseln. t. c., 126–7. (*Philotarsus* n. sp.; European genus; winged.).
- 1906. Lausenstudien V. Schuppen als sekundäre Atmungsorgane, sowie über eine neue antarktische Echinophthiriiden-Gattung. (12. Beitrag zur Kenntnis der antarktischen Fauna). t. c. 659–65, 4 figs. (lice on seals; 1 n. sp., Victoria land; 1 sp. Auckland Is.).
- 1907. Die Rüsselkäfer der Falklands-Inseln. (13. Beitrag zur Kenntnis der antarktischen Fauna.) Stett. Ent. Ztg. **68**: 36–69. (Curculionidae: 16 n. spp.: Lis-

- troderes, 13 spp.; genus in T. del Fuego, Patagonia, Chile, etc., Falklandio, 3 spp., precinctive.).
- 1909a. Parudenus falklandicus, eine neue Phasgonuridengattung der Falklandsinseln. (19. Beitrag zur Kenntnis der antarktischen Fauna). Zool. Anz. 35: 157-9. (Rhaphidophorinae-flightless orthopteran.).
- 1909b. Die biologische Bedeutung der Antarktis und ihrer Faunengebiete, mit besonderer Berücksichtigung der Insektenwelt. Deutsche Südpolar-Exped., 1901-1903. Berlin, G. Reimer. 10 (4): 323-60, 1 map, (Fauna and its relationships.).
- 1909c. Die Insekten des Antarktischen Gebietes. I. c. 361-528, figs. (Lists 10 spp. Antarctica, 23 Crozet, 53+9 Kerguelen, 7 Head, 16 St. Paul, 7 Amsterdam, 21 Auckland, 4 S. Shetlands, 3 S. Orkneys, 13 S. Georgia.).
- 1909d. Die Spinnen der Crozet-Inseln und von Kergeulen. op. cit. 10 (5): 533-40. (Opiliones g. et sp. n., Araneae subsp. n.)
- 1909e. Antrops truncipennis, eine neue Borboridengattung von Feuerland. (17. Beitrag zur Kenntnis der antarktischen Fauna.) Zool. Anz. 34: 230-233.
- 1909f. Ueber die Plecopteren-subfamilie Antarctoperlinae und eine neue Gattung derselben von den Auckland-Inseln. (18. Beitrag zur Kenntnis der antarktischen Fauna). Deutsche Ent. Zeitschr. 1909: 679-84. (Aucklandobius).
1912. Die Insekten des Antarkto-Archiplatia-Gebietes (Feuerland, Falkland-Inseln, Süd-Georgien). (20. Beitrag zur Kenntnis der antarktischen Fauna). K. Svenska Vetensk. Akad. Handl. 48(3): 1-170.
1917. Über einige subantarktische Mallophagen. Zool. Anz. 49(9): 240-45.
- 1930a. Die Insektenfauna Sud-Georgiens. Ges. Naturf. Freunde Berlin, Sitz. Ber. 1930: 234-51, 7 figs. (Col. 6 spp., Dipt. 6, Anoplura 1, Malloph. 2, Collembola 7 spp.).
- 1930b. Die Insektenfauna der Campbell-Insel. I. c., 251-7. (29 spp.).
- 1930c. Die Insektenfauna der Macquarie-Insel. I. c. 258-63. (11 spp.).
- Ewing, H. E. 1922. Note on the occurrence and distribution of Antarctic land Arthropods (Springtails Mites: Collembola and Acarina). Ent. News 33: 76-9. [3 spp.: Cryptopygus (Coll.); Halozetes and Gamasellus].
1945. Mites of the U. S. Antarctic Service Exped., 1939-41. Amer. Philos. Soc., Proc. 89(1): 269. (3 spp.).
- Fage, L. 1940. Opiliones, Croisière du Bougainville aux îles australes françaises. Mus. d'Hist. Nat. Paris, Mem. ser. 2, 14: 283-4. (1 sp., Crozet).
- Fairmaire, L. 1884. Note sur quelques Coléoptères de Magellan et de Sante-Cruz. Soc. Ent. France, Ann. ser. 6, 3: 483-506.
1885. Liste de Coléoptères recueillis à la Terre du Feu op. cit. 5: 33-62. (8 spp., Falkland Is., 54 T. d. Fuego, Magellan, partly described in Le Naturaliste 1885: 11-2.).
1888. Coleoptera. Miss. Scient. Cap Horn 1882-83, 6 Zool., Ins.: 363.
1890. Mus. Paris., Nouv. Arch. ser. 3, 1: (p. 131, Strts Magellan).
1900. Heteromères. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. 44: 111-12 (2 spp., T. d. Fuego).

- 1906. Tenebrionidae, Cantharidae, Oedemeridae. Res. Voy. S. Y. Belgica en 1897, 1898, 1899, Zool., Ins., 41–3. (See Rousseau *et al.*).
- Fauvel, A. 1877. Les Staphylinides de l'Australie et de la Polynésie. Mus. Stor. Nat. Genova, Ann. **10**: 168–298. (Auckland Is.).
- 1904. Staphylinides exotiques nouveaux, 2^e Partie. Rev. d'Ent. Franc. **23**: 76–112. (S. Georgia, p. 93).
- Fenyes, A. 1918–21. Coleoptera : fam. Staphylinidae ; subfam. Aleocharinae. Gen. Ins. **173** : 1–453.
- Fihol, H. and de l'Isle. 1876. (Insects observed in the Seychelles, Fiji and New Zealand). Petit. Nouv. Ent. **2** : 50–51. (Campbell I.).
- Forbes, H. O. 1893. The Chatham Islands, their relation to a former southern continent. R. Geogr. Soc., Suppl. Pap. **3** : 607–37.
- Forel, A. 1897. Formiciden. Ergebni. Hamb. Magalhaensischen Sammelr., 1892/93. **2**, Arthrop., 1–7.
- 1909. Faune antarctique des fourmis. Schaffhausen. Schweiz. Ent. Ges., Mitt. **11** : 381–382. (Magellan-T. d. Euego).
- Frauenfeld, Georg. 1858. St. Paul. Zool.-Bot. Ges. Wien, Verh. 1858. **1** : 263–72 ; II : pp. 381–4.
- Frey, R. 1954. Diptera Brachycera und Sciaridae von Tristan da Cunha. (With a contribution by J. Bequaert). Res. Norwegian Exped. Tristan da Cunha, 1937–8, Oslo **26** : 1–55, 26 figs.
- Fuller, H. S. 1944. Historical note on *Notiopsylla kerguelensis*, an Antarctic flea. Brooklyn Ent. Soc., Bull. **38** : 164–7. (On several genera of birds).
- Gaud, J. 1952. Acariens plumicoles (Analgesidae) de quelques oiseaux des îles Kerguelen (Recolte P. Paulian). Inst. Sci. Madagascar, Mem. A **7**(2) : 161–6, 3 figs. (6 spp., 3 new, on Pelecanoides, Chitonis, etc., 1 widely distr.).
- Gercke, G. 1890. Vorläufige Nachricht über die Fliegen Süd-Georgiens, nach der Ausbeute der Deutsche Station 1882–83. Hamb. Wissensch. Anst., Jahrb. **6** : 153–4, 1 fig. (Summary in R. Mict. Soc., Jour. 1891, p. 183).
- Giebel, C. 1876. Diagnoses of some species of Mallophaga collected by the Rev. A. E. Eaton during the late Transit of Venus Expedition to Kerguelen's Island. Ann. Mag. Nat. Hist. ser. 4, **17** : 388–9 (3 n. spp.).
- 1879. Mallophaga of Kerguelen's Land. Royal Soc. Lond., Philos. Trans. **168** : 250–57, pl. 14. (Redescriptions of Eaton's 6 species of Mallophaga from Kerguelen I.; and additional descriptions.).
- Glance, Grace 1945. Collembola of the U. S. Antarctic Service Exped., 1939–1941. Amer. Philos. Soc., Proc. **89** : 295. (2 spp., not identified : see Salmon, 1949).
- Gourlay, E. S. 1950. Auckland Island Coleoptera. Royal Soc. New Zealand, Trans. **78** : 171–202, 3 pls., figs. (35 spp., historical account of collecting).
- Grandjean, F. 1952. Observation sur les Palaeacaroides (Acariens) (*1^{re} serie*). Mus. d'Hist. Nat. Paris, Bull. **24**(2) : 360–7, 3 figs. (Tristan da Cunha).
- 1955. Sur un acarien des îles Kerguelen, *Podacarus auberti* (Oribate). Mus. d'Hist. Nat. Paris, Mem., ser. 3 A **3** : 109–50, 10 figs.
- Gressitt, J. L. 1958. Zoogeography of insects. Ann. Rev. Ent. **3** : 207–30.

- Grouvelle, A. 1906. (See Rousseau *et al.*).
- Guérin-Ménéville, F. C. 1830. Crustaces, Arachnides et Insectes. EN Lesson, M., Voyage de la Coquille, Zool. 2(2): 57–152. (Strts. Magellan, etc.).
1841. Description de quelques Coléoptères nouveaux, provenant des îles la Tasmanie, du Port Otago. (Nouvelle Zélande), d' Essingtonbay (Australie septentrionale), de Triton Bay (Nouvelle Guinée), et des îles Vavao, Salomon, Ternate Borneo, Auckland, etc. Revue Zool., Paris **1841**: 120–28.
- 1841b. Description de quelques Coléoptères nouveaux, provenant des îles Auckland, de Triton Bay, des îles Salomon et du Port Famine, dans le détroit de Magellan. *t. c.*, 213–7. (1 sp. Auckland Is.; 3 spp. Strts. Magellan.).
- 1e Guillou, E. J. F. 1842. Description de sept Diptères nouveaux, recueillis pendant le voyage autour du monde de L' Astrolabe et la Zalée. *op. cit.* 314–6. (Auckland I.).
- Hack, W. H. 1949. Nota sobre un colembolo de las Antartica Argentina, Acherutes via-ticus Tullberg. Mus. La Plata, Notas **14**(126): 211–2, 3 pls.
- Hagen, H. A. 1876. Pseudo-Neuroptera. IN: Kidder, Nat. Hist. of Kerguelen. U. S. Nat. Mus., Bull. 3: 52–7. (*Rhyopsocus* n. g., n. sp.).
- Haliday, A. S. (See Curtis *et al.*).
- Hampson, Sir G. F. 1895. On the classification of the Schoenobiinae and Crambinae, two subfamilies of moths of the family Pyralidae. Zool. Soc. Lond., Proc. **1895**: 895–974. (*Crambus* n. sp., Falkland, p. 930.).
1897. On the classification of two subfamilies of the family Pyralidae. Ent. Soc. Lond., Trans. **1897**: 127–240. (*Scoparia* n. sp., Falkland Is., p. 233.).
- 1903–05. Catalogue of the Noctuidae in the collection of the British Museum. Cat. Lep. Phalaenae **4** and **5**.
1911. Descriptions of new genera and species of Syntomidae, Arctiidae, Agaristidae, and Noctuidae. Ann. Mag. Nat. Hist. ser. 8, **8**: 393–445. (1 sp., Falkland Is., p. 418.).
1913. Descriptions of new species of Pyralidae of the subfamily Pyraustinae (continued). *op. cit.*, **11**: 322–42, 509–30 and **12**: 1–38, 299–319. (1 sp., S. Georgia, p. 322.).
1918. Descriptions of new genera and species of Amatidae, Lithosiidae and Noctuidae. Novit. Zool. **25**: 93–217. (*Euxoa* n. sp. from W. Falkland.).
- Handlirsch, Adam. 1884. Beiträge zur Biologie der Dipteren. Zool.-Bot. Ges. Wien, Verh. **33**: 243–6. (Auckland I.).
- Harrison, G. Helsop (see Helsop-Harrison.).
- Harrison, Launcelot 1937. Mallophaga and Siphunculata. Australasian Antarctic Exped., Sci. Rep. (c) 2(1): 1–47, 3 pls., 7 figs. (With some keys to Antarctic spp.; lists 9 n. spp., 6 Ant., 4 Macquarie.).
- Harrison, R. A. 1953a. The Diptera of the Antipodes and the Bounty Islands. Royal Soc. New Zealand, Trans. **81**: 269–82, 15 figs. (Antipodes: 13 spp., 8 fam.; Bounty: 3 spp., 3 fam.).
- 1953b. Diptera of the Sub-Antarctic islands of New Zealand. Sci. Rev., Wellington **11**: 78–80. (51 spp., at least 7 subapterous; 11 fam., 2 of them lacking in New Zealand.).

1956. The Diptera of Auckland and Campbell Islands, part I. Dom. Mus., Rec. Wellington 2(4): 205-31, 9 figs. (Auckland Is.: 54 spp., 22 fam.; Campbell I: 39 spp., 17 fam.).
1959. Acalyptrate Diptera of New Zealand. Dept. Sci. Ind. Res. Wellington 382 pp., 432 figs. (Incl. 9 spp. Subantarctic islands.).
- Hendel, F. 1937. Zur Kenntnis einiger Subantarktischer Dipteren und ihrer Verwandten. Naturh. Hofmus., Wien, Ann. 48: 179-93.
- Heslop-Harrison, G. 1949. Contributions to our knowledge of the Psyllidae of Australia and New Zealand with special reference to Tasmania. Ann. Mag. Nat. Hist. ser. 12, 2: 641-60. (In Miocene Tasmania had influx of insects from Antarctica; many South American relationships.).
- Hickman, V. V. 1939. Opiliones and Araneae. Rep. Brit. Austral. New Zealand Antarct. Res. Exped., 1929-31. (B) 4(5): 159-87, 54 figs. (5 Crozet, 2 Kerguelen, 4 Macquarie, 1 Heard.).
- Hogg, J. R. 1909. Spiders and Opiliones from the Subantarctic islands of New Zealand. The Subantarctic islands of New Zealand. Wellington 1: 155-81, pls. 7-8 (15 spp.).
1913. Some Falkland Island Spiders. Zool. Soc. Lond., Proc. 1913: 37-50, 2 pls. (7 n. spp.).
1918. Arachnida, part I - Araneae (spiders). British Antarctic (Terra Nova) Exped., 1910. Nat. Hist. Rep., Zool. 3: 163-73. (None from Antarctic.).
- Holdhaus, K. 1931. Ueber die Insektenfauna der Insel Süd-Georgien. Zool. Jahrb. Syst. 63: 163-182. (2 Malloph., 6 Coleopt., 9 Dipt., 1 Siphonapt.).
- Holm, G. 1912. Insect-remains (Falkland Islands). Geol. Inst. Upssala, Bull. 11: 183 (Palaeodictyoptera.).
- Hoogstraal, H. 1954. Ixodes (Ceratixodes) uriae White, 1852, parasitizing penguins and sea birds in the Falkland Islands (Ixodoidea, Ixodidae) Jour. Parasit. 40 (2): 232.
- Hudson, G. V. 1909 a. General notes on the Entomology of the southern islands of New Zealand. The Subantarctic islands of New Zealand. Wellington 1: 58-66, pls. 2-4 (lists with notes).
- 1909b. Description of four new species of Macro-lepidoptera from the southern islands. l. c., 67-9, pl. 2 (moths).
- Hughes, A. M. 1955. Australian Nat. Antarctic Res. Exped. (B) 1, Zool. (New Mite from Heard I. only).
- Hustache, A. 1926. Mus. Nac. Hist. Nat. Buenos Aires, An. 34: (194, 201) (Tierra del Fuego).
- Hutton, F. W. 1881. Catalogues of the New Zealand Diptera, Orthoptera, Hymenoptera; with description of the species. Colonial Mus. and Geol. Surv. New Zealand, Wellington. x + 132 pp. (Auckland I.).
1885. The origin of the fauna and flora of New Zealand. II. The Antarctic and north-temperate elements. Ann. Mag. Nat. Hist. ser. 5, 15: 77-107.
1895. On a new species of Weta (Locustidae) from Bounty Isle. New Zealand Inst., Trans. Proc. 27: 174, 175. (Orthopt.).
1901. Synopsis of the Diptera Brachycera of New Zealand. op. cit. 33: 1-95. (Auckland I.).

- 1902a. On a small collection of Diptera from the southern islands of New Zealand. *op. cit.* 34: 169–75 (19 spp., Auckland I., Snares, Campbell I., Antipodes).
- 1902b. The beetles of the Auckland Islands. *t. c.*: 175–9 (11 spp. known: Carabidae, Tenebrionidae, Curculionidae; n. spp. described by Borun).
- 1904. Description of a new blow-fly from Campbell Island. *op. cit.* 36: 155.
- Ihering, H. Von 1891. On the ancient relations between New Zealand and South America. *op. cit.* 24: 431–45. (Translated from Das Ausland, No. 18, 1891); ("Old mesozoic Pacific continent").
- Ivanoff, S. S. 1913. Collemboles, Deux. *Expedition Antarctique française* (1908–1910) Paris. 1913, pp. 199–204.
- Jacobs, J. 1900. Diptères. Diagnoses d'insectes recueillis par l'expédition antarctique Belge. *Soc. Ent. Belg.*, Ann. 44: 106–7. (Tipul., 1, Chiron., 2: Belgica antarctica and magellanica; Syrph., 1; Tachin., 1. T. d. Fuego or Magellan, except B. antarctica).
- 1906. Diptères. *Exped. Antarctique Belge. Resultats voy. S. Y. Belgica en 1897–1898–1899. Rap. Sci., Zool.*, pp. 67–71, pl. 3. (Repeats Rübsaamen's names, Belgica and Jacobsielle).
- Jeannel, R. 1926. Monographie des Trechinae, première partie. *L'Abeille* 32: 221–550.
- 1936. Monographie des Catopidae. *Mus. d'Hist. Nat. Paris, Mem. ser. 2, 1*: 1–433.
- 1937. Sur quelques Trechinae et Catopidae des régions australes. *Rev. Franc. d'Ent.* 4 (4): 255–7. (Kendactylus, Temnostega; Campbell I., Crozet I.).
- 1938. Les Migadopides (Coleoptera Adephaga), une lignée subantarctique. *op. cit.* 5 (1): 1–55. (Auckland Is., Falkland Is., T. d. Fuego—also Chile, N. Z., Tasmania, E. Australia).
- 1939. Les origines des faunes des Carabiques. *VII Int. Kongr. Ent., Verh.* 1: 225–35.
- 1940a. Les milieux biologiques des îles Kerguelen. *Soc. Biogeogr., C. R. Paris* 17: 1–6 (Environment and history of Kerguelen).
- 1940b. Croisière du Bougainville aux îles australes françaises. I. Partie générale. *Mus. d'Hist. Nat. Paris, Mem. sre. 2, 14*: 1–46, 8 pls. (Geography; biogeography).
- 1940c. Coléoptères. Croisière du Bougainville aux îles australes françaises. *l. c.*: 63–201, 280 figs. (29 spp., 11 Crozet, 14 Kerguelen, 3 St. Paul, 1 New Amsterdam, 3 Marion, 4 Heard).
- 1947. Hemiptères. Croisière du Bougainville aux îles australes françaises. *op. cit.* 20: 1–24, 70 figs. (Delphac., St. Paul; Henicocephal., Crozet).
- 1953a. Sur la faune entomologique de l'île Marion. *Rev. Franc. d'Ent.*, 20: 161–167. (Col.: Curculion., Bothrometopus n. sp.)
- 1953b. Sur un Pselaphide des îles Crozet. *l. c.*: 168–73, 6 figs. (Col.)
- Jeekel, C. A. W. 1955. Diplopoda of Tristan da Cunha. *Res. Norwegian Exped. Tristan da Cunha, 1937–8, Oslo* 32: 5–9.
- Johnston, T. H. 1937. Ticks. *Australasian Antarct. Exped., 1911–14, Sci. Rep. (C)* 2 (3): 1–19. (List of 8 Antarctic and Subantarctic ticks; host list).
- Jordan, K. 1938. On the species of bird Parapsylli from the Falklands obtained on the

- British Graham Land expedition, 1934-37. Nov. Zool. **41**: 134-9, 5 figs. (3 spp. fleas).
- 1942. On Parapsyllus and some closely related genera of Siphonaptera. Eos, Madrid. **18**: 7-29, 10 figs. (*P. longicornis* n., subsp. Falkland Is.).
- 1954. Siphonaptera. Res. Norwegian Exped. Tristan da Cunha, 1937-8 Oslo. **30**: 1-2, 1 figs.
- Karny, H. H. 1937. Orthoptera. Fam Gryllacrididae. Subfam Omnes. Gen. Insect., Brussels. **206**; 1-317, 7 pls., 3 figs. (*Parudenus* n. sp., Falkland Is.).
- Keilin, M. D. 1912. Sur l'anatomie et le développement de "Belgica antarctica" Jacobs, Chironomidae antarctique à ailes réduites. Acad. Sci. Paris, C. R. **154**: 723-5.
- 1913. (Diptera). Deuxième Exped. Antarctique Française **6**: 217 (Belgica).
- Keler, S. von 1951. Zwei neue Mallophagenarten von *Atlantisia rogersi* Lowe. Zeitschr. Parasitenk., Berlin. **15**: 34-56, 11 figs. (*Pseudomenopon*, *Parricola*, n. spp., Inaccessible I.).
- 1952. On some Mallophaga of sea-birds from the Tristan da Cunha Group and the Dyer Island. Ent. Soc. S. Afr., Jour., Pretoria. **15**: 204-38, 29 figs.
- 1954. The Mallophaga from *Endyptes chrysolophus* (Brand) and *E. crisatus* (Miller). R. Ent. Soc. Lond., Proc. (B) **23**: 49-59, 9 figs. (*Cesareus*, n. sp.; Heard Is.).
- Kellogg, V. L. 1903. Two new genera of Mallophaga. Bull. **5**: 85-91. (1 from Kerguelen).
- 1914. Mallophaga from birds of the South Atlantic. Brooklyn Mus. Inst. Arts Sci., Bull. **2**: 80-89, pl. 16 (Lipoptera, S. Georgia).
- Kidder, J. H. 1876. Natural History of Kerguelen Island. (U. S. Transit of Venus Exped. 1874-75). U. S. Nat. Mus., Bull. **3**: 1-122. (Insects, pp. 49-57; see Hagen and Osten-Sacken).
- Kiesenwetter, H. von and Th. Kirsch. 1877. Die Käferfauna der Auckland-Inseln, nach Herm. Krone's Sammlungen beschrieben. Deutsche Ent. Zeitschr. **1877**: 153-74 (29 spp.).
- Kimmins, D. E. 1951. A revision of the Australian and Tasmanian Gripopterygidae and Nemouridae (Plecoptera). Brit. Mus. (N. H.) Ent., Bull. **2**: 45-93. (Auckland I.).
- Kirby, W. F. 1884. On the Diptera collected during the recent expedition of H. M. S. Challenger. Ann. Mag. Nat. Hist. ser. 5, **13**: 456-60. (3 spp., Heard I.).
- Klapalek, Fr. 1897. Plecopteren. Ergebni. Hamb. Magalhaensischen Sammelnr. 1892/93. **2**, Arthrop., 1-13, figs.
- Kramer, P. 1897. Acariden. op. cit., 1-40, 1 pl.
- Kuschel, G. 1950. Nuevas sinonimias, revalidaciones y combinaciones (9º aporte a Col. Curculionidae) Agric. Tecn., Santiago **10** (1): 10-21.
- 1952. Cylindrorhininae aus dem Britischen Museum (Col. Curculionidae, 8 Beitrag). Ann. Mag. Nat. Hist. ser. 12, **5**: 121-37, 5 figs. (Falkland Is.: 8 spp., 2 new).
- Lamb, C. G. 1909. The Diptera of the Subantarctic islands of New Zealand. The Subantarctic island of New Zealand. Wellington. **1**: 124-45, pls. 3-4, 9 figs. (17 fam., 48 spp.).
- 1917. Falkland Island Diptera. Ent. Soc. Lond., Trans. **1916**: 387-95. (1 borborid; 1 phycodromid; 2 ephydriids with very small wings).

- Lameere, A. 1900. Cerambycidae. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. **44**: 112. (1 sp., Strts. Beagle).
- 1906. (See Rousseau *et al.*).
- Larson, S. G. 1943. Une larve de Loxomerus des îles Auckland (Carabidae, Migadopini.). Ent. Medd. **23**: 420-31.
- Lea, A. M. 1920. Description of a new staphylinid beetle from Macquarie Island. Australasian Antarctic Exped., 1911-14, (C) **5** (8): 30-31, figs. (See Tillyard).
- Lesne, P. 1907. Coléoptères. Exped. Antarctique Farnçaise. Paris (Masson) 1907, 4, fig.
- Llano, G. A. 1956. Botanical research essential to a knowledge of Antarctica. Geophysical Mon. **1**: 124-133. (Bibliog.; plants).
- 1959. Antarctic plant life. IGY Bull. (Nat. Acad. Sci.) **24** (June): 10-13. (Plant environment of land invertebrates).
- Lindsay, A. A. 1940. Recent advances in Antarctic biogeography. Quart. Rev. Biol. **15**: 456-65. (Summary of environment and fauna; 2 FW crustaceans, mites; 18+spp. insects: Collembola, Corrodentia, Mallophaga, Anoplura, Diptera).
- Lohmann, H. 1908. Die Meeresmilben der Deutschen Südpolar-Expedition, 1901-1903. Deutsche Südpolar Exped. 1901-1903. **9** Zool. 1; 361-413.
- 1908a. Ueber einige faunistische Ergebnisse der Deutschen Südpolar-Exped., unter besonderer Berücksichtigung der Meeresmilben. Kiel, Schr. Nat. Ver. **14**: 1-14.
- Lonnberg, E. 1900. On the scorpions obtained during the Swedish Expedition to Tierra del Fuego. 1895. Ergebni. Schwedisch Exped. Magellasl. **2** (Zool.): 45-8.
- Lubbock, J. 1876. On a new genus and species of Collembola from Kerguelen Island. Ann. Mag. Nat. Hist. ser. 4, **18**: 324. (Tullbergia).
- 1879. Collembola. IN: Transit-of-Venus Expeditions, 1874-75. Royal Soc. Lond., Philos. Trans. **168**: 249, pl. 13.
- Mabille, M. P. 1891. Lepidoptères. Miss. Scient. Cap Horn 1882-1883, **6** Zool. (2): 1-35.
- Macquart, J. 1840. Diptères exotiques nouveaux ou peu connus. 2 vols Paris. (Auckland Is.).
- Malaise, R. 1945. A new species of a bipolar saw-fly genus (Hymen. Tenthru.) Arkiv Zool. **36** (1): 1-5, 2 figs. (Tierra del Fuego).
- Malloch, J. R. 1930. The calyprate Diptera of New Zealand. Canterbury Mus., Rec. **3**: 289-331.
- Meillon, B. de. 1952. The fleas of sea birds in the Southern Ocean. Austral. Nat. Antarct. Res. Exped., Rep. (B) **1** (Zool.): 1-11. (Parapsyllus longicornis ssp., Tristan da Cunha; P. magellanicus ssp., Heard I.).
- Merian, P. 1913. Les Araignées de la Terre de Feu et de la Patagonie comme point de départ de comparaisons géographiques entre diverses couches faunistiques. Mus. La Plata, Rev. **20**: 7-100.
- Meyrick, E. 1909. Lepidoptera from Auckland Island. The Subantarctic islands of New Zealand. Wellington. **1**: 70-74, pl. 2. (14 spp., 8 fam. of moths.)
- Michael, A. D. 1895. Über die auf Süd-Georgien von der deutschen Station 1882-1883 gesammelten Oribatiden. Hamb. Wissensch. Anst., Jahrb. 1894, **12** Beiheft: 69-72.
- 1903. Acarina (Oribatidae). Résultats du voyage du S. Y. Belgica en 1897-1898-1899. Rap. Sci. **7** (2): Zool.: 1-7, pl. 2, Notaspis, de Gerlache Strait).
- Migot, A. 1955. La Faune des îles Kerguelen et de L'Antarctique. 40 pp, map, 102 photogr.

- Mik, J. 1882. Diptera gesammelt von Hermann Krone auf den Auckland-Inseln bei Gelegenheit der deutschen Venus-Exped., 1874 und 1875. *Zool.-Bot. Ges. Wien, Verh.* 31 : 195-206, pl. 13. (6 n. spp.).
- Miller, David. 1950. Catalogue of the Diptera of the New Zealand Sub-region. Dept. Sci. Ind. Research, New Zealand, Pull. 100 : 1-194.
- 1956. Bibliography of New Zealand entomology 1775-1952. *op. cit.* 120 : 1-492. (See pp. 418-20; outlying islands).
- Mjöberg, E. 1906. Zur Kenntnis der Insektenfauna von Süd-Georgien. *Arkiv Zool.* 3 (13) : 1-14, pl. 1, 5 figs. (Coleoptera).
- Mónros, F. 1958. Consideraciones sobre la fauna del sur de Chile y revision de la tribus Stenomeline (Coleoptera, Chrysomelidae). *Acta Zool. Lilloana* 15 : 143-53. (Proposes Neantarctic Region for southern Chile-Araucana Subregion-plus Australian Region with Polynesia, Wallacea and Papuan Subregion).
- Morley, C. 1912. A revision of the Ichneumonidae based on the collection in the British Museum (Natural History) with descriptions of new genera and species. Part I. Tribes Ophionides and Metopinides. XI, 88 pp. Brit. Mus., London. (See p. 55, Strts. Magellan).
- 1913. ditto. Part 2, Tribes Rhyssides, Echthromorphides, Anomalides and Paniscides. ix + 140 pp. 1 pl. (See p. 107; 1 sp., Falkland).
- Morrell, Benjamin. 1832. A narrative of four voyages to the South Sea, North and South Pacific Ocean, Chinese Sea, Ethiopic and Southern Atlantic Ocean, Indian and Antarctic Ocean; from year 1822 to 1831. Harper, New York. xxvii + 492 pp. (p. 361, Auckland I.).
- Mosely, M. A. 1876. Notes on the plants and insects of Kerguelen. *Linn. Soc. Lond., Bot., Jour.* 15 : 54.
- Müller, Clemens. 1884. Käfer von Süd-Georgien. *Deutsche Ent. Zeitschr.* 28 (2) : 417-20. (4 spp., apterous beetles).
- Murphy, R. C. 1928. Antarctic zoogeography and some of its problems. Problems of polar research. Amer. Geogr. Soc., Spec. Publ. 7 : 355-79.
- 1936. Oceanic birds of South America, a study of species of the related coasts and seas, including the American quadrant of Antarctica...Amer. Mus. Nat. Hist. 2 vols., 1245 pp., illustr.
- Murray, James, 1910. On microscopic life at Cape Royds. British Antarctic Exped., 1907-9. *Rep. Sci. Invest.* 1 (2) : 17-22, pls. (Skins of small mites found in Coast Lake, Blue Lake, Clear Lake, Deep Lake—nr. Cape Barne; one mite from veg. in Deep Lake; sev. spp. in Coast Lake. Only 1 ins.—Malloph.: on skua, see Neumann).
- Murray, M. D. 1958. Ecology of the louse *Lepidophthirus macrorhini* Enderlein 1904 on the elephant seal *Mirounga leonina* (L.). *Nature* 182 (4632) : 404. (Macquarie I.; seals' skin temp. 10-12.5° in sea).
- Neumann, L. G. 1904. Notes sur les ixodides, 2. *Arch. Parasit., Paris* 8 : 444-64. (Tierra del Fuego).
- 1906. Notes sur les Ixodides, 4. *op. cit.* 10 : 195-219. (Tristan da Cunha, etc.).
- 1907. Pediculides, Mallophages, Isodides. Exped. Antarctique Française (1903-

- 05). Sci. Nat.: Doc. Sci. pp. 13-7, figs. 2. (Antarctophthirus, Philopterus, Degeeriella, Ixodidae; Palmer Pen. 65°).
- 1911. Mallophaga. British Antarctic Exped. (1907-09). Rep. Sci. Inv. 2 (3): 19-22, pl. 3 (*Lipeurus* n. sp. S. of Tasmania; only 1 sp. ex Antarctic: *Philopterus lari* ex MacCormack's Skua, Cap Royds, 77° S.: louse seen on emperor penguin, but lost).
- 1913a. Mallophaga. Deuxième Exped. Antarctique Française (1908-10), Paris. pp. 187-96.
- 1913b. Ixodidae. *l. c.*: 198.
- Nuttall, G. H. 1916. Notes on ticks, IV. Parasitology 8: 294-337 (Antipodes Is., Tierra del Fuego).
- Oldroyd, H. 1956. The Diptera of Auckland and Campbell Is., part 4. A wingless Dolichopodid (Diptera) from Campbell Island. Dom. Mus., Rec. Wellington 2 (4): 243-6, 5 figs, (*Acropsilus* n. sp.).
- Olivier, E. 1906. (See Rousseau *et al.*).
- d'Orchymont, A. 1913. Notes sur quelques hodophilides exotiques. Soc. Ent. Belg., Ann. 57: 315-20 (Auckland I.).
- 1919. Contribution à l'étude des sous-familles des Sphaeridiinae et des Hydrophilinae (Col. Hydrophilidae). Soc. Ent. France, Ann. 88: 105-68. (Auckland I., Bounty Is.).
- 1938. Voyage de M. E. Aubert de la Rue Aux îles Kerguelen: Palpicornia. Rev. Franc. d'Ent. 5: 78-91, 10 figs. (Hydrophilidae; faunal relations).
- Ortmann, A. E. 1901. The theories of the origin of the Antarctic Faunas and Floras. Amer. Nat. 35: 139.
- Osten-Sacken, C. R. 1876. Diptera. IN: Kidder, Nat. Hist. of Kerguelen. U. S. Nat. Mus. Bull. 3: 51-2. (3 wingless flies).
- Oudemans, A. C. 1913-14. Acarologisches aus Maulwurfsnestern. Arch. Naturg. 79 A(8): 108-200; (9): 68-136; (10): 1-69, 18 pls. (Oribatidae n. sp., S. Georgia).
- Paramonov, S. J. 1955. New Zealand Cyrtidae (Diptera) and the problem of the Pacific island fauna. Pacific Sci. 9: 16-25. (Rel. of New Zealand fauna with S. Amer., rather than with Australia.).
- Paulian, P. 1952. La vie animale aux îles Kerguelen. Terre et la Vie, Paris, 99: 1-169 (pp. 129-38, 4 figs.; 2 spiders, sev. mites, 12 Dipt., 10 Col., 2 Lep. Pringleophaga, small wings, sev. Collembola.).
- 1953. Les biotypes entomologiques des îles Kerguelen. Entomologiste, Paris 9: 33-42, 2 pls., 1 map.
- Perkins, J. E. 1945. Biology at Little America III, the West Base of the United States Service Expedition (1939-41). Amer. Philos. Soc., Proc. 89(1): 270-84. (Vertebrates; flora.).
- Pernety, A. J. 1769. Journal historique ... Voyages au Détrroit de Magellan ... 2 vols. Berlin.
- Pfeffer, G. 1890. Die niedere Thierwelt des antarktischen Ufergebietes. Systematische Darstellung der Fauna von Süd-Georgien. Deutschen Polar-Exped. 2 (17): 31-68. (Insects, pp. 48-9.).
- Piran, A. A. 1941. Catalogo sistemático y zoogeográfico de Tettigonoides argentinos (Or-

- thoptera : Tettigonoidea). Soc. Ent. Arg., Rev. 11(2): 119-68; (3): 240-87.
- 1952. El alotipo macho de *Parudenus falklandicus* Enderlein, 1909 (Orthoptera ; Rhaphidophoridae). Acta Zool. Lilloana 10: 283-4.
- Portevin, Gaston. 1907. Clavicernes nouveaux de groupe des necrophages. Soc. Ent. France, Ann. 76: 67-82. (Auckland I.).
- Pryor, M. 1959. Radio Message, Sept. 14: "Cape Hallett area mites include: *Halozetes antarctica*, *Maudheimia wilsoni*, *Pertorgunia belgicae*; *Collembola* not classified; negative results McMurdo."
- Pocock, R. I. 1893. Report upon the Myriopoda of the "Challenger" Expedition with remarks upon the fauna of Bermuda. Ann. Mag. Nat. Hist. Ser. 6, 11: 121-42, 1 pl. (3 spp., Tristan da Cunha.).
- Putzeys, J. 1870. Trechorum oculatorum Monographia. Stett. Ent. Ztg. 31(1-3): 7-48, 145-201. (1 Falklands, Magellan: 1 Crozet; Coleopt.).
- 1873. Soc. Sci. Liége., Mem. ser. 2, 5: 10.
- Quoy, J. R. C. and J. P. Gaymard. 1824. Zoologie. IN Freycinet, Voy. Uranie et Physicienne, Zool. 712 pp., 96 pls. Paris. (Strts. Magellan.).
- Rainbow, W. J. 1917. Arachnida from Macquarie Island. Australasian Antarctic Exped., 1911-14. Sci. Rep. (C) 5 (1): 5-13. (3 spp. Macquarie).
- Régimbart, M. 1887. Description de deux Dytiscides nouveaux. Leyd. Mus., Notes 9: 267-8. [Lancetes n. sp., "King George I.", (probably S. Georgia rather than King George I. of the S. Shetlands, or King George Is. of the Tuamotu Archipelago).]
- Reitter, Edmund. 1881. Einige neue Coleopteren. München. Ent. Ver., Mitt. 5: 139-41. (Auckland I.).
- Reyne, A. 1954. Scale Insects (Coccoidea). Res. Norwegian Exped. Tristan da Cunha, 1737-8, Oslo. 31: 3-4.
- Richards, O. W. 1931. Sphaeroceridae (Borboridae). Dipt. Patag. S. Chile 6 (2): 62-84.
- 1941. Sphaeroceridae (Diptera). Sci. Rep. British Graham Land Exped., 1934-37. 1: 323-6, 1 fig. (Penola n. gen. et. sp., apterous; Falkland Is.).
- 1951. Brachypterous Sphaeroceridae. Ruwenzori Exped. 1934-5. British Mus. (N. H.) 2 (8): 829-51, 10 figs. (review of wingless Ant. flies).
- 1955. Los insectos de las islas Juan Fernandez, 21. Rev. Chil. Ent. 4: 73-93 (Note on Siphlopteryx, p. 88).
- 1956. The Diptera of Auckland and Campbell Islands, 3. A species of Sphaeroceridae (Diptera) from Campbell Island. Dom. Mus., Rec., Wellington 2 (4): 241. (Leptocera pectinifera, new to fauna).
- Richters, F. 1908. Die Fauna der Moosrasen des Gauss-Bergs und einiger südlicher Inseln. IN Deutsche Südpolar Exped., 1901-3, Berlin (G. Reimer) 9: 261-302, 5 pls. (Acari and Tardigrada).
- Ringuelet, R. A. 1955. Ubicacion zoogeografica de las Islas Malvinas. Mus. La Plata, Rev. (n. s.) 6: 419-464, 8 figs. (Falkland Is., circumpolar maps of distr.; bibliog.; no mites listed).

Table of the distribution of the insects

	Species	Endemic	%	Genera	Endemic	%
Collembola	10	4	40	7	—	—
Orthoptera	1	1	100	1	1	100
Psocoptera	1	1	100	1	—	—
Hemiptera	1	—	—	1	—	—
Lepidoptera	16	8	50	12	—	—
Coleoptera	44	34	77.2	30	9	30
Diptera	18	8	53	13	2	15
Hymenoptera	1	1	100	1	—	—
Totals	92	57	61	66	12	17.6

- Ris, F. 1897. Odonaten. Ergebni. Hamb. Magalhaensischen Sammeli, 1892/93. 2, Arthrop., 1–43, figs.
- Roewer, C. F. 1913. Die Familien der Gonyleptiden der Opiliones Lamiatores. Arch. Naturg. **79** A (4–5): 1–469.
- 1923. Die Webspinnete der Erde. Systematische Bearbeitung der bisher bekannten Opiliones. VI, 1116 pp. B. Fischer, Jena.
- 1931. Weitere Webspinnete V. Naturw. Ver. Bremen, Abh. **28** (2–3): 101–64.
- 1938. Opiliones aus den Naturhistorischen Reichmuseum in Stockholm. Arkiv Zool. **30** B (10): 1–8. (S. Chile).
- 1942. Einige neue Arachniden I. Veroff. Deutsch. Kol.-und Ubers. Mus. 3 (3): pp. 277–80, 20 pls. (Opilione, Campbell I.).
- Rothschild, C. 1895. Antipodes I. Aphaniptera. Nov. Zool. **2**: 66.
- 1902. Pterygota, Hemiptera Parasitica, Pediculidae. Rep. Coll. Nat. Hist., "Southern Cross". p. 224. (Echinophthirius setosus Lucas. Host: Antarctic seal).
- Roubaud, M. E. 1907 (July). Expedition Antarctique Française (1903–1905), Sci. Nat.: Doc. Sc., Diptères, pp. 11–12. (Belgica antarctica, Ile Booth-Wandel = 65°, Palmer Pen.).
- Rousseau, E. 1900. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Carabidae. Soc. Ent. Belg., Ann. **44**: 108 (3 spp., Magellan-Beagle).
- 1906. Cicindelidae, Carabidae. Res. Voy. S. Y. Belgica en 1897–1898–1899, Zool., Ins.: 19–23.
- Rübsaamen, Ew. H. 1897. Pteromaliden. Ergebni. Hamb. Magalhaensischen Sammeli. 1892/93. 2, Arthrop. pp. 1–7, 1 pl.
- 1906. Exped. Ant. Belge, Resultats voy S. Y. Belgica en 1897–1898–1899. Rap. Sci. Zool., Diptères, pp. 75–85. (On Belgica and Jacobsiella).
- Salmon, J. T. 1949. New sub-antarctic Collembola. Cape Exped., New Zealand Sub-Antarctic Exped., 1941–45, Bull. **4**: 1–56, 167 figs., 2 maps. (Auckland I., Campbell I.).
- 1949. The Collembola of the U. S. Antarctic Service Exped. 1939–1941.

- Supplementary note. R. Ent. Soc. Lond., Proc. (B) **18**: 161-2, 2 figs. (*Friessa grisea* and *Cryptopygus antarcticus*).
- Salmon, J. T. and Bradley, J. D. 1956. Lepidoptera from the Cape Expedition and Antipodes Islands. Dom. Mus., Rec., Wellington **3**: 61-81, 45 figs. (Several brachypteros).
- Satchell, G. H. 1950. On *Psychoda acutipennis* Tonnoir, a semiapterous, island-living species. R. Ent. Soc. London, Proc. (B) **19**: pp. 42-46, 1 fig. (From Bounty I.).
- Schäffer, C. 1891. Die Collembolen von Süd-Georgien. Hamb. Wissensch. Anst., Jahrb. **9**: 193-201, 1 pl.
- 1897. Apterygoten. Ergebni. Magalhaensischen Sammelm., 1892/93. 2 Arthrop. (3): 1-48, 3 pls. (Magellan, S. Georgia).
- 1914. *Collembola, Siphonaptera, Diptera, and Coleoptera* of the South Georgia Expedition. Brooklyn Mus. Inst. Arts. Sci., Bull. **2**: 90-94. (2 n. spp., Diptera, S. Georgia).
- Schiner, J. R. 1868. Diptera. Reise der österreichischen Fregatte Novara. Zool. **2** (1B): 25-6, 42-6, 221, 243-4, 307, pl. 2 (St. Paul. Auckland Is.).
- Schouteden, H. 1897. Aphiden. Ergebni. Hamb. Magalhaensischen Sammelm. 1892/93. 2 Arthrop., 1-6.
- 1906. (See Rousseau *et al.*).
- Schweiger, H. 1952. Die Käfer-fanua des Antarkto-Archiplata-gebietes und ihre Probleme (Summary). 9th Int. Congr. Ent., Trans. **1**: 559-60. (Compares fanuae of Andes, Tierra del Fuego, Falkland Is. and S. Georgia).
- 1959. Über einige von der Skottsberg-expedition im Antarkto-Archiplata Gebiet aufgesammelten Koleopteren. Arkiv Zool. **12** (1): 1-43.
- Séguy, E. 1940. Diptères. Croisière du Bougainville aux îles australes françaises. Mus. d'Hist. Nat., Mem. Paris, ser. 2, **14**: 203-267, 139 figs. (7 Crozet, 13 Kerguelen, 8 St. Paul; 6 n. spp.).
- 1954. Insectes Mallophages, Anoploures et Diptères recueillis par M. P. Paulian aux îles Kerguelen. Inst. Sci. Madagascar, Mem. **4** (1953): 553-615, 64 figs. (14 Mallophaga of 7 genera).
- Severin, G. *et al.* 1906. Insects. Exped. Antarctique Belge. Résultats Voy. S. Y. Belgica en 1897-1898-1899. Rap. Sci. 8 Zool. Ins.: 1-92, 5 pls. (Introd. by Severin, pp. 3-5; various groups by Brunner von Wattenwyl, Bergroth, Rousseau, Grouvelle, Schouteden, Brenske, Boileau, Bourgeois, Olivier, Fairmaire, Stierlin, Bovie, Lameere, Tosquinet, Emery, André, Vachal, Jacobs, Becker and Rübsaamen. Those not cited in this bibliography concern southern S. America).
- Signoret, V. 1885. Liste des Hemiptères recueilles à la Terre de Feu par la Romanche. Soc. Ent. France, Ann. ser. 5, **6**: 63-70. (5 spp., 2 new).
- Simon, E. 1895. Arachnides recueillis à la Terre-de-feu par M. Carl. Backhausen. Mus. Nac. Hist. Nat. Buenos Aires, An. **4**: 167-72.
- 1897. Arachnides rec. à la Terre de Feu, par M. Carlos Backhausen (2nd Memoire). *op. cit.* **5**: 141-5.
- 1902. Arachnoideen, Excl. Acariden und Gonyleptiden. Ergebnisse der Hamb. Magalhaensischen Sammelm. **6** (4): 1-47. (Araneae spp. n., Chernetes sp. n.,

- Opiliones sp. n., Tierra del Fuego).
- 1904. Etude sur les arachnides du Chili recueillis en 1900, 1901, et 1902, par MM. C. Porter, Dr. Delfin, Barcey Wilson et Edwards. Soc. Ent. Belg., Ann. **48**: 83–114 (T. d. Fuego).
- Siple, P. A. 1938. The second Byrd Antarctic Expedition—Botany. I. Ecology and geographical distribution. Missouri Bot. Gard., Ann. **25**: 467–514. (89 spp. plants).
- Skottsberg, C. 1911. The wilds of Patagonia. A narrative of the Swedish Expedition to Patagonia, Tierra del Fuego and the Falkland Is., 1907–1909. XIX, 336 pp., Ed. Arnold, London.
- 1921–40. The natural history of Juan Fernandez and Easter Island. 3 Zool. 688 pp.
- 1956. Derivation of the flora and fauna of Juan Fernandez and Easter Island. The natural history of Juan Fernandez and Easter Island. **1** (3): 193–438. (See particularly pp. 292–316—composition, distribution and relationships of the fauna; and 389–93—Antarctica as a source of the present circumpolar floras).
- Sladen, W. J. L. and Tickell, W. L. N. 1958. Antarctic bird-banding by the Falkland Islands Dependencies Survey, 1945–1957. **29** (1): 1–26. (Bird-banding, Distr. birds. Biblio.).
- Smit, F. G. A. M. 1957. Siphonaptera from the Isles of Amsterdam and Kerguelen, collected by Patrice Paulian, and from Antipodes I. R. Ent. Soc. London, Proc. (B) **26**: 189–96, 16 figs. (*Notiopsylla* n. sp., Antipodes).
- Sörensen, Wm. 1897. Gonyleptiden (Opiliones Lamiatores). Ergebn. Hemb. Magalhaensischen Sammelr., 1892/93. **2** Arthrop., 1–36. (Strts. Magellan).
- Speiser, P. 1909. Milben (Acarina). In Deutsche Süd-polar-Exped., 1901–3. Berlin (G. Reimer). **10** (5): 597–603.
- Staudinger, O. 1897. Lepidopteren. Ergebn. Hamb. Magalhaensischen Sammelr. 1892/93. **2** Arthrop., 1–117, 1 pl. (Strts. Magellan).
- Stierlin, G. 1906. Curculionidae, Otiorrhynchinae. Resultats du Voyage S. Y. Belgica en 1897–1898–1899. Zool., Ins.: 44.
- Stuardo Ortiz, C. 1946. Catalogo de los Dipteros de Chile. Minist. Agric. Deion. Gral. Agric., Santiago. 250 pp.
- Studer, T. 1879. Die Fauna von Kerguelensland. Arch. Naturg., **45**: 104–41 (Insects, pp. 111–3; arachnids, 113–4).
- Tambs-Lyche, H. 1954. Arachnoidea from South Georgia and the Crozet Islands with remarks on the subfamily Masoninae. Sci. Res. Norwegian Antarct. Exped., 1927–8, **35**: 103–18, 4 figs. (Opil., Aran.).
- Taschenberg, Otto. 1880a. A new flea from Kerguelen Island. Leyden Mus., Notes **2**: 169–70.
- 1880 b. Die Flöhe. Halle. (see pp. 67–8, 122, pl. 2, fig. 12, flea from Kerguelen).
- Taylor, B. W. 1954. An example of long distance dispersal. Ecology **35**: 569–72. (Macquarie I., seeds on feet of sea birds).
- Thompson, G. B. 1938. Mallophaga, Expedition Antarctique Belge. Resultats du voyage du S. Y. Belgica en 1897–1898–1899. Zool., pp. 1–6, pl. 1. (11 spp.).

- Tillyard, R. J., C. T. Brues and A. M. Lea. 1920. The Insects of Macquarie Island. Australasian Antarctic Exped., 1911-14, Sci. Rep. (C) 5 (8): 1-35. (12 spp.: 3 Collemb., 1 Hym., 1 Col., 1 Lep., 6 Dipt.).
- Timmermann, G. 1952. The species of the genus *Quadraceps* (Mallophaga) from the Larinae, with some remarks on the systematics and the phylogeny of the gulls. Parts I, II. Ann. Mag. Nat. Hist. ser. 12, 5: 209-22, 1 pl., 6 figs., 595-600. (Stuxberg Cape, Chile, Galapagos, SW Africa).
- 1954. Vorläufige Uebersicht über das Amblyceren-Genus *Austromenopon* Bedford, 1939 (Mallophaga). Bonn. Zool. Beitr. 5: 195-206, pl., 20 figs.
- 1955. Studien über Mallophagen aus den Sammlungen des Britischen Museums (Nat. Hist.), London. 3. Mitteilung. Beschreibungen neuer und unzulänglich bekannter, zumeist bei Regenpfeifervogel schmarotzenden Federlingsarten. Ann. Mag. Nat. Hist. ser. 12, 8: 513-34, 16 figs. (*Saemundssonia lari* n. subsp., Heard I.).
- Tonnoir, A. 1920. Contribution à l'étude des Psychodidae. Soc. Ent. Belg., Ann. 60: 149-57, 4 figs. (1 sp. Bounty I., narrow wings).
- Torres, B. A. 1953. Sobre la existencia del Tendipedido "Belgica antarctica" Jacobs en Archipielago Melchior. Mus. Ciudad Eva Perón, An. (n. s.) Zool. 1: 1-22, 18 figs. 3 pls. (Archip. Melchior, 64° S. Lat, 63° W. long, off Palmer Peninsula. Northernmost record of the Antarctic *Belgica antarctica*, a chironomid).
- 1956. Primer hallazgo de Tendipedidos alados en la region Antártica. Podonominae, una nueva subfamilia para la citada region. Soc. Cient. Argent., Ann. Buenos Aires. 161 (4-6): 41-52, 8 figs. (Podonomus, a chironomid; new to Antarctic).
- Tosquinet, J. 1900. Hymenopteres. Diagnoses d'insectes recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. 44: 104. (2 spp., T. d. Fuego, et.).
- Trägårdh, I. 1907. Acariens terrestres, Expedition Antarctique Francaise (1903-1905), Sci. Nat.: Doc. Sci., pp. 11-13. (Palmer Pen., 65°).
- 1908. The Acari of the Swedish South Polar Exped. Wissenschaftl. Ergebn. Schwed. Südpolar Exped. 5 Zool. (11): 1-34, 3 pls. (21 spp.; Acari spp. n., Tierra del Fuego and Antarctic Is.).
- Trouessart, E. L. 1902. Arachnida, Acarina. Rep. Coll. Nat. Hist. "Southern Cross" p. 225-7. (Penthaleus belli n. sp., Cap Adare, Terre Victoria.).
- 1903. Acariens (Trombididae, Eupodidae, Gamasidae). Résultats du voyage du S. Y. Belgica. 7 (2) Zoologie. 11 pp., 1 pl. (Gamasus, Nörneria, Penthaleus).
- 1907. Acaridae. Halacaridae. IN National Antarctic Expedition, 1901-4. London. Nat. Hist. 3: Zool.-Bot., 6 pp., 1 pl. (Leptospathis alberti, bipolar distr.).
- 1908. Appendix. Acari of the Scotch Antarctic Exped. IN Wissenschaftl. Ergebn. Schwed. Südpolar Exped. 5 Zool. (11): 35. (Penthalodes n. sp., S. Orkney Is.).
- 1912. Acariens de l'Expedition Antarctique Nationale Ecossaise. Scottish National Antarctic Expedition. Report Sci. Results Voy. S. Y. Scotia. 1902, 1903, 1904. 6 Zool.: 81-6.
- 1914. Acariens. Deuxième Exped. Antarctique Française (1908-1910), Sci. Nat., Doc. Sci., Paris. (Masson): 1-16, 11 figs.
- Troussart, E.-L. and L. G. Neumann. 1888. Le pou de l'otarie. (*Echinophthiro* microchir,

- n. sp.). *Le Naturaliste* **10**: 80–81, figs. (Anoplura, Auckland I.).
- Tullgren, A. 1908. Contribution to the knowledge of the spider fauna of the Magellan territories. *Svenska Exped. till Magellanslanderna* **2** (10): 181–263, 4 pls.
- Ulmer, G. 1897. Trichopteren. 1–8, 1 pl., Ephemeren, 1–8, 1 pl. *Ergebn. Hamb. Magalhaensischen Sammelr.* 1892/93. **2**, Arthrop.
- 1906. Neuer Beitrag zur Kenntnis aussereuropaeischer Trichopteren. *Leyden Mus., Notes* **28**: 1–116.
- Vallentin, R. 1904. *Manchester Lit. Phil. Soc., Mem.* **48** (23): 20–22. (Falkland Is., Ins.).
- 1924. Insecta. In Boyson, *The Falkland Islands*, Oxford, pp. 362–371.
- Vanhöffen, E. 1902. Biologische Beobachtungen; 3. Auf der Possession-Insel. Deutsche Südpolar-Exped. Bericht über die wissenschaftlichen Arbeiten auf der Fahrt von Kapstadt bis zu den Kerguelen. *Inst. f. Meeresk., Veröff.* **2**: 42–4.
- 1903. Biologischer Bericht; Die Heard Insel. Deutsche Südpolar-Exped. Bericht über die wissenschaftlichen Arbeiten seit der Abfahrt von Kerguelen bis zur Rückkehr nach Kapstadt. *op. cit.* **5**: 144–5.
- 1905. Einige zoogeographische Ergebnisse der Deutschen Südpolar-Expedition. *XV. Deutschen Geographentages zu Danzig*, Verh.: 14–19 (p. 16).
- 1908. Die Tiere und Pflanzen von Possession Eiland (Crozet gruppe). Deutsche Südpolar-Exped. **2** (4): 337–43. (Araneae, Acarina and Tardigrada).
- Verrall, G. H. 1879. Zoology of Kerguelen's Island: Diptera. *Royal Soc. Lond., Philos. Trans.* **168**: 238–48, 6 figs., pl. 14 (With redescription of six spp. desc. by Eaton, 1875 c.).
- Viets, K. 1950. Die Meeresmilben (Halacaridae, Acari) der Fauna Antarctica. Further Zoological results of the Swedish Antarctic Expedition 1901–1903. Stockholm. **4** (3): 1–44, 11 figs. table, map. (12 spp., Falklands and S. Georgia).
- 1952. Nachtrage zu "die Meeresmilben (Halacaridae, Acari) der Fauna Antarctica." *Swedish Antarctic Exped., Further Zool. Res.* **4** (10): 1–11, 4 figs.
- Viette, P. 1949. Lepidoptères. Croisière du Bougainville aux îles australes françaises. *Mus. d'Hist. Nat. Paris, Mem. ser. 2, 27* (1): 1–28, 1 pls., 22 figs. (4 spp. Kerguelen, 1 Crozet, 2 St. paul, 1 Marion).
- 1952a. Lepidoptera. *Sci. Res. Norwegian Antarctic Exped., 1927–8, Oslo.* **33**: 1–4, 1 fig. (Embryonopsis hälticella, Hyponomeut., Possession I.).
- 1952. d. Lepidoptera. *Res. Norwegian Exped. Tristan da Cunha 1937–8, Oslo.* **23**: 1–19, 19 figs. 3 pls.
- 1954. Une nouvelle espèce de Lepidoptères brachyptères de l'île Campbell. *Ent. Medd., Copenhagen* **27**: 19–22, 1 figs. (Euproteodes n. gen. et. sp., Elachist.).
- 1959. Lepidoptères de l'île Amsterdam (récoltes de Patrice Paulian, 1955–1956). *Soc. Ent. France, Bull.* **64** (1–2): 22–29, 6 figs. (5 families, 7 spp.: 3 probably non-precinctive; 1 with very small wings, another with reduced wings.).
- Voss, Eduard. 1937. Nochmals die Tribus Scolopterini, sowie zur Abgrenzung der Subfamilie Eugnominae (Coleoptera: Curculionidae). *Arb. Morph. Taxon. Ent. Berlin-Dahlem* **4**: 37–43. (Auckland Is.).
- Wahlgren, Einar. 1900. Über einige neue Collembolenformen aus dem südwestlichen Patagonien. *Ent. Tidskr.* **21**: 265–70.

- 1906. Antarktische und Subantarktische Collembolen. Wissensch. Erbn. Schwedischen Südpolar-Exped., 1901–3. **5** (9) : 1–22, 2 pls. Lists spp. from the Falklands, S. Shetlands, S. Georgia and Graham Land).
- Walker, F. (See Curtis *et al.*)
- Walker, J. J. 1884. Entomological collecting on a voyage in the Pacific. Ent. Mo. Mag. **20** : 222–5, and **21** : 115–20. (Lep., Col., see also Ent. Soc. Lond., Trans. 1884 : xxvii–xxviii.) (including Strts. of Magellan).
- 1910. (*Thomisis guanicola* Broun from Bounty Islands). Ent. Soc. Lond., Proc. **1910** : lix.
- Waterhouse, C. O. 1875a. On the Coleoptera of Kerguelen's Island. Ent. Mo. Mag. **12** : 54–7. (6 spp.).
- 1875b. On some new genera and species of Heteromerous Coleoptera (Hedopidae) from Tierra del Fuego. Ent. Soc. Lond., Trans. **1875** : 331–7. (Littoral, all apterous. : 5 spp.).
- 1879. Zoology of Kerguelen Island : Coleoptera. Royal Soc. Lond., Philos. Trans. **168** : 230–34, pl. 14.
- 1881. Coleoptera. Zoological collections made during the survey of H. M. S. 'Alert'. Zool. Soc. Lond., Proc. **1881** : 80–82. (Strts. Magellan).
- 1884. Coleoptera collected during the Expedition of the H. M. S. Challenger. Ann. Mag. Nat. Hist. ser. 13, **5** : 276–83. (Spp. from Tristan da Cunha).
- Waterhouse, F. H. 1879. Descriptions of new Coleoptera of geographical interest, collected by Charles Darwin, Esq. Linn. soc. Lond. Jour. **14** : 530–34.
- Waterhouse, G. R. 1841–42. Carabidous insects collected by C. Darwin, Esq. during the voyage of H. M. S. Beagle. Ann. Mag. Nat. Hist. 1841, ser. 2, **6** : 254–57, 351–5; **7** : 120–29; 1842, **9** : 121–40. (Southern S. America).
- 1843. Description of a new genus of Carabidous insects brought from the Falkland Islands by Charles Darwin. *op. cit.* **11** : 281–83. (1 sp.).
- 1853. Descriptions of new genera and species of Curculionides. Ent. Soc. Lond., Trans. ser. 2, **2** : 172–207. (1 sp. Kerguelen : end. gen. Ectommorrhinus).
- Waterston, James. 1921. Mallophaga (Insects, part II). British Antarctic (Terra Nova) Exped., 1910. Nat. Hist. Rep., Zool. **3** : 269–71. (6 spp., from birds on S. Trinidad I., 21°, off Rio).
- Weber, N. A. 1950. A survey of the insects and related arthropods of Arctic Alaska, Part I. Amer. Ent. Soc., Trans. **76** : 147–206, 7 pls.
- 1954. Arctic Alaskan Diptera. Ent. Soc. Wash., Proc. **56** (2) : 86–91.
- Weise, Julius. 1895. Neue Coccinelliden, sowie Bemerkungen zu bekannten Arten. Soc. Ent. Belg., Ann. **39** : 120–46. (Auckland I.).
- White, Adam. 1846–7. Insects. Zoology of the voyage of H. M. S. Erebus and Terror... 1839–43. Ins. pp. 1–24. (Coleopt., Orthopt. : New Zealand and Auckland Is.).
- 1846–8. Notes toward a statistical account of the fauna of New Zealand and the Auckland Islands, so far as regards annulose animals. Linn. Soc. Lond., Proc. **1846** : 306–7. Revue Zool., Paris, **10** : 84–97; **11** : 20–24, 54–6, 76–80, 110–18.
- Wilkinson, D. S. 1928. A revision of the Indo-Australian species of the genus Apanteles (Hym. Bracon.); part 2. Bull. Ent. Res. **19** : 109–46 (Auckland I.).

- Willem, V. 1901. Les Collemboles recueillis par l'Expedition Antarctique Belge. Soc. Ent. Belg., Ann. **45**: 260–62, 1 fig. (3 n. spp.: Achorutoides, Cryptopygus, Isotoma).
- 1903. Collemboles recueillis par l'Expedition Antarctique Belge. Resultats du Voyage du S. Y. Belgica en 1897–1898–1899. Rap. Sci. **7** (2) Zool.: 1–19, 4 pls. (6 spp., 3 from Terres Magellaniques, 3 from “detroit de Gerlache”=straits in 64° to 65°, Palmer Pen.).
- Willemse, C. 1954. Orthoptera (Suborder: Caelifera) fam. Tridactylidae. Res. Norwegian Exped. Tristan da Cunha, 1937–8, Oslo. **28**: 5–8, 3 figs. (Tridactylus n. sp.).
- Windhausen, A. 1925. Las antiguas conexiones de la Patagonia. Ac. Nac. Cienc. Cordoba, Bol. **28**: 213–50.
- Wirth, W. W. 1949. A revision of the clunionine midges with descriptions of a new genus and four new species (Diptera: Tendipedidae). Univ. Calif. Publ. Ent. **8** (4): 151–82, figs. (Discusses Belgica and Halirytus=Jacobsiella).
- Wittmann, O. 1934. Die biogeographischen Beziehungen der Südkontinente. Die antarktischen Beziehungen. Zoogeographica, Jena **2**: 246–304, 12 figs. **3**: 27–65, 10 figs. (Insects pp. 261–3).
- Womersley, H. 1937a. Acarina. Australasian Antarctic Expedition 1911–14. Sci. Rep. (C) **10** (6): 1–24, 2 figs., 11 pls.
- 1937b. Collembola. Brit. Austral. New Zealand Antarctic Res. Exped., 1929–31. (B) **4** (1): 1–7 (13 spp.: 1 Crozet, 3 Heard, 8 Kerguelen, 6 Macquarie).
- 1937c. Coleoptera, 1. c. 23–36 (5 Crozet, 11 Kerguelen, 8 Heard, 2 Macquarie).
- 1937d. Diptera. op. cit. **4** (3): 59–79 (8 Kerguelen, 3 Heard, 6 Crozet, 7 Macquarie).
- 1937e. Miscellaneous insects. l. c.: 80–83. (2 Crozet, 2 Kerguelen).
- and N. B. Tindale. 1937. Lepidoptera. l. c., 83–6, 1 pl., 1 fig. (1 Crozet, 2 Kerguelen, 1 Macquarie).
- Zimmermann, A. 1924. Revision der Colymbetinen-Gattung Lancets Sharp (Col.). Wiener Ent. Ztg. **41**: 89–99. (1 sp. Falkland Is.; genus in Australia, Tasmania, New Zealand, southern Neotropics, Juan Fernandez, Tierra del Fuego and S. Georgia).
- Zumpt, F. 1952. The ticks of sea birds. Australian Nat. Antarctic Res. Exped. Repts. (B) **1**(Zool.): 12–20. (9 spp. of Ceratixodes, Ixodes and Ornithodoros: Heard, Macquarie, and Kerguelen).

Addendum

- Clay, Theresa. 1958. A note on some antarctic Mallophaga. Ann. Mag. Nat. Hist. ser. 13, **1**: 250–56. (Kerguelen, Heard, S. Georgia).
- Timmermann, G. 1956. Quadraceps niethammeri n. sp. und andere neue Federlinge aus Gattungen Quadraceps, Saemundssonia und Austromenopon. Bonn Zool. Beitr. **7**: 186–92. (Kidney I., S. Georgia, etc.).
- 1959. Drei neue Sturm vogelfederlinge. Zool. Anz. **162**: 148–53. (Mallophaga; Antarctic seas, etc.).

Note

Holm's *Paleodictyopteron* from the Falkland Islands is *Permagrion falklandicum* Tillyard, 1928, Ent. Soc. Lond., Trans. **76** (1): 55–63, according to Dr. F. M. Carpenter (*in litt.*). It is thus a damsel-fly.

SUBJECT AND GEOGRAPHICAL INDEX

<i>Acarina</i>	Trouessart & Neumann	Enderlein
Anastos	<i>Antarctica</i>	Migot
André, M.	Admadjian	Ortman
Banks	Berlese 1917	Perkins
Berlese	Bryant	Pfeffer
Bryant	Carl	<i>Antipodes Is.</i>
Cambridge	Carpenter 1902, 08, 21	Alexander
Dalenius & Wilson	Clay	Harrison, R.
Dumbleton	Clifford	Hutton
Enderlein	Dalenius & Wilson	Johnston
Ewing	Denis	Lamb
Gaud	Eklund	Malloch
Grandjean	Enderlein 1906, 09b, c	Meillon, de
Hoogstraal	Ewing	Nuttall
Johnson	Glance	Rothschild
Kramer	Hack	Salmon & Bradley
Lohmann	Harrison, L.	Smit
Michael	Jacobs	<i>Araneida</i>
Murray, J.	Johnston	Berland
Neumann	Keilin	Bristowe
Nuttall	Llano	Enderlein
Oudemans	Lindsay	Hickman
Paulian	Lohmann	Hogg
Pryor	Michael	Merian
Richters	Murphy	Morre11
Speiser	Murray, J.	Paulian
Studer	Neumann, 1907, 11	Rainbow
Trägårdh	Perkins	Roewer
Trouessart	Pryor	Simon
Vanhöffen	Richters	Studer
Viets	Rothschild	Tambs-Lyche
Womersley	Roubaud	Tullgren
Zumpt	Rübsaamen	Vanhöffen
<i>Amsterdam (New) I.</i>	Salmon 1949b	<i>Auckland Is.</i>
Enderlein 1903, 09c	Severin	Alexander
Jeannel 1940c	Siple	Archey
Smit	Torres	Bezzi
Viette 1959	Trägårdh	Blanchard
<i>Anoplura</i>	Trouessart	Brookes
Clay	Wahlgren	Broun
Enderlein	Willem	Brunner v. Wattenwy1
Harrison, L.	<i>Antarctic fauna (gen.)</i>	Butler
Murray, M. D.	Bryant	Cameron, M.
Seguy	Eklund	Cameron, P.

Chaudoir, de	Heslop-Harrison	Hutton
Duvivier	Holdhaus	Jeannel
Edwards 1923b, 1924	Ihering	Johnston
Eichelbaum	Jeannel	Lamb
Enderlein 1906, 09c	Lindsay	Miller
Fauvel	Monrós	Oldroyd
Fenyes	Murphy	Richards 1956
Gourlay	d'Orchymont	Roewer 1942
Guerin-Ménéville	Ortman	Salmon
Guillou, le	Siple	Viette 1954
Handlirsch	Skottsberg	<i>Chilopoda</i>
Harrison, R.	Vanhöffen	Archey
Hogg 1909	Weber	<i>Coleoptera</i>
Hudson	Winkhausen	Allard
Hutton	Wittmann	Behrens
Jeannel	<i>Blattaria</i>	Bernhauer
Kiesenwetter & Kirsch	Chopard	Blanchard
Lamb	<i>Botany</i>	Bourgeois
Larsson	Admadjian	Breniske
Macquart	Clifford	Brethes
Malloch	Llano	Brinck
Meyrick	Perkins	Brookes
Mik	Siple	Broun
Miller	<i>Bounty Is.</i>	Bruch
Morreil	Broun 1904, 09	Cameron, M.
d'Orchymont	Harrison, R.	Champion
Portevin	Hogg 1909	Curtis
Reitter	Hutton 1895	Duvivier
Salmon	Lamb	Eichelbaum
Schiner	d'Orchymont 1919	Enderlein
Trouessart & Neumann	Satchell	Fairmaire
Voss	Tonnoir	Fauvel
Weise	Walker, J. 1910	Fenyes
White	<i>Campbell I.</i>	Frauenfeld
Wilkinson	Alexander	Gourley
<i>Biogeography</i>	Bezzi	Guerin-Ménéville
Alluaud	Broun 1909	Holdhaus
Balech	Carpenter 1909b, 21, 25	Hudson
Berland	Dumbleton	Hustache
Brehm	Fenyes	Jeannel
Cabrera	Filhol & l'Isle	Kiesenwetter & Kirsch
Dana	Edwards 1923a	Kuschei
Darlington	Enderlein 1930b	Lameere
Enderlein 1909b	Harrison, R.	Larsson
Forbes	Hogg 1909	Lea
Gressitt	Hudson	Lesne

Mjöberg	<i>Crozet</i>	Osten-Sacken
Monrós	André, M.	Paramonov
Müller	Berland	Paulian
d'Orchymont	Brinck 1945	Pfeffer
Paulian	Denis	Richards
Pfeffer	Enderlein 1904a, b, 05a, d, 09c, d	Ringuelet
Portevin	Hickman	Rübsaamen
Putzeys	Jeannel	Roubaud
Regimbart	Johnston	Satchell
Reitter	Seguy	Schäffer
Hinguelet	Tambs-Lyche	Schiner
Rousseau	Vanhöffen	Seguy
Schäffer	Viette 1949, 52	Stuardo Ortiz
Schweiger	Womersley	Tillyard <i>et al.</i>
Stierlin	<i>Dermoptera</i>	Tonnoir
Tillyard <i>et al.</i>	Chopard	Torres
Voss	<i>Diptera</i>	Verral
Walker, J. J.	Alexander	Walker, F.
Waterhouse C. D.	Austen	Weber
Waterhouse, F. H.	Becker	Wirth
Waterhouse, G. R.	Bezzi	Womersley
Weise	Brethes	<i>Diplopoda</i>
White	Crichton	Attems
Womersley, 1937d	Eaton	Enderlein
Zimmerman	Edwards	Jeeke1
<i>Collembola</i>	Enderlein	Pocock
Börner	Frauenfeld	<i>Dispersal</i>
Bryant	Frey	Taylor
Carl	Gercke	<i>Ecology</i>
Carpenter	Guillou, le	Bryant
Davies	Handlirsch	Carpenter 1921
Denis	Harrison, R.	Dalenius & Wilson
Enderlein	Hendel	Murray, M. D.
Ewing	Holdhaus	<i>Environment</i>
Glance	Hudson	Admadjian
Hack	Jacobs	Bryant
Ivanoff	Keilin	Clifford
Lubbock	Kirby	Jeannel
Paulian	Lamb	Llano
Ringuelet	Macquart	Paulian
Salmon	Malloch	Perkins
Schäffer	Mik	Siple
Tillyard <i>et al.</i>	Miller	<i>Falkland Is.</i>
Wahlgren	Morrell	Allard
Willm	Oldroyd	Austen
Womersley 1937a		Butler 1876

Cameron, M.	Womersley	Hickman
Champion	Zumpt	Jeannel 1940-47
Clay	<i>Hemiptera</i>	Johnston
Enderlein 1905c, e, 07, 09a, 12	Berg	Kellogg
Fairmaire 1885	Breddin	Kidder
Hampson 1895, 11, 18	China	Lubbock
Hogg	Enderlein	Migot
Holm	Frauenfeld	Mosely
Hoogstraal	Heslop-Harrison	d' Orchymont
Jeannel 1938	Jeannel	Osten-Socken
Johnston	Reyne	Paulian
Jordan 1936, 42	Ringuelet	Seguy
Karny	Schouteden	Smit
Kuschel	Signoret	Studer
Lamb	<i>Hymenoptera</i>	Taschenberg
Morley	André, E.	Vanhöffen
Piran	Ashmead	Verrall
Richards 1941	Cameron, P.	Viette 1949
Ringuelet	Curtis <i>et al.</i>	Waterhouse, C. 1875a, 79
Schweiger	Forel	Waterhouse, G. 1853
Skottsberg	Haliday	Womersley
Vallentin	Kirby	Zumpt
Viets	Malaise	<i>Lepidoptera</i>
Wahlgren	Morley	Butler
Waterhouse, G. 1843	Morrell	Curtis <i>et al.</i>
Zimmermann	Ringuelet	Eaton
<i>Faunal lists</i>	Rübsaaman	Enderlein
Hudson	Tillyard	Frauenfeld
Studer	Tosquinet	Hampson
Tillyard	Wilkinson	Hudson
Vallentin	<i>Kerguelen I.</i>	Mabille
Weber	André, M.	Meyrick
<i>Fossil Insects</i>	Berland	Morrell
Holm	Bernhauer	Paulian
<i>Heard I.</i>	Börner	Ringuelet
Berland	Cambridge	Salmon & Bradley
Enderlein 1909a	Denis	Staudinger
Hickman	Eaton	Tillyard <i>et al.</i>
Hughes	Eichler	Viette
Jeannel 1940c	Enderlein 1901b, 09c, d 13, 14c, 15d	Walker, F.
Keler, von 1954	Fuller	Walker, J. J.
Kirby	Gaud	Womersley & Tindale
Meillon, de	Giebel	<i>Macquarie I.</i>
Timmerman	Grandjean	Brues
Vanhöffen	Hagen	Carpenter 1909b, 1921
		Enderlein 1930c

Harrison, L.	Ris	<i>Neuroptera</i>
Hickmon	Roewer	Kirby
Hogg 1909	Rousseau	<i>Odonata</i>
Johnston	Rübsaamen	Morrell
Lamb	Schäffer	Ris
Lea	Schouteden	<i>Opiliones</i>
Meillon, de	Severin	Butler 1876
Miller	Simon	Hickmann
Murray, M.	Sörensen	Hogg
Rainbow	Staudinger	Roewer
Taylor	Stierlin	Sörenson
Tillyard	Thompson	Tambs-Lyche
Womersley	Tullgren	<i>Orthoptera</i>
Zumpt	Ulmer	Brunner v. Wattenwytl
<i>Magellan, Straits of</i>		Chopard
André, E.	Walker	Enderlein
Attems	Waterhouse, C., 1881	Hudson
Balech	Waterhouse, F.	Hutton
Blanchard	Waterhouse, G.	Karny
Boileau	Wittmann	Kirby
Bourgeois	<i>Mallophaga</i>	
Bovie	Clay	Morrell
Breddin	Eichler	Piran
Brenské	Enderlein	Ringuelet
Brunner v. Wattenwytl	Giebel	White
Cabrera	Harrison	Willemse
Champion 1918a	Holdhaus	<i>Plecoptera</i>
Curtis <i>et al.</i>	Keler, von	Enderlein 1909c, f
Fairmaire	Kellogg	Hudson
Forel	Murray, J.	Kimmins
Grouvelle	Neumann 1907–13a	Klapalek
Guerin-Ménville	Seguy	<i>Prince Edward</i>
Jacobs	Thompson	Johnston
Klapalek	Timmermann	<i>Pseudoscorpionida</i>
Kramer	<i>Marion I.</i>	
Kuschel	André, M.	Beier
Lameere	Badonnel	<i>Psocoptera</i>
Lesne	Berland	Badonnel
Michael	Denis	Eaton
Monrós	Jeannel	Enderlein
Morley	<i>Myriopoda</i>	
Olivier	Archey	Hagen
Pernety	Attems	Ringuelet
Piran	Enderlein	<i>Scorpionida</i>
Quoy & Gaymard	Jeeke1	Lonnberg
Richards 1931	Pocock	<i>Siphonaptera</i>
		Enderlein
		Fuller
		Holdhaus

Jordan	Viets	Malaise
Meillon, de	Wahlgren	Merian
Rothschild	<i>South Orkney Is.</i>	Nuttall
Schäffer	Carpenter 1907, 09	Roewer
Smit	Enderlein 1909c	Schweiger
Taschenberg	Trouessart 1908	Severin
<i>Snares (Is.)</i>	<i>South Sandwich Is.</i>	Signoret
Broun 1909	Enderlein 1909c	Simon
Hogg 1909	<i>South Shetland Is.</i>	Skottsberg
Hudson	Clay	Tosquinet
Hutton	Enderlein 1909c	Waterhouse, C. 1875b
Lamb	Johnston	<i>Thysanoptera</i>
Malloch	Torres	Enderlein 1909c
Miller	Wahlgren	<i>Trichoptera</i>
<i>South Georgia Is.</i>	<i>St. Paul I.</i>	Ulmer
Banks	André, M.	<i>Tristan da Cunha</i>
Behrens	Badonnel	Alluaud
Brethes	Berland	Anastos
Brinck 1945	Chopard	Beier
Bristowe	Denis	Béquaert
Clay	Enderlein 1901a, 03, 09c	Berland
Eichler	Frauenfeld	Brinck
Enderlein 1909c, 12, 30a	Jeannel	China
Fairmaire 1885	Johnston	Crichton
Fauvel	Schiner	Frey
Gercke	<i>Tierra del Fuego</i>	Grandjean
Hampson 1913	Balech	Jeeke1
Holdhaus	Becker	Johnston
Johnston	Berg	Jordan
Kellogg	Bruch	Keler, von
Michael1	Carpenter, 1902	Meillon, de
Mjöberg	Champion 1915a	Neumann 1996
Müller	Enderlein 1905b, 09e, 12	Pocock
Oudemans	Fairmaire	Reyne
Pfeffer	Hustache	Viette 1952
Régimbart	Jacobs	Waterhouse, C. 1884
Schäffer	Jeannel	Willemse
Schweiger	Lonnberg	<i>Zoogeography</i>
Tambs-Lyche	Mabille	(see Biogeography)