

Lice (Insecta: Phthiraptera) from some Australian birds

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Abstract – Published and unpublished records of feather lice collected from 104 species and subspecies of Australian birds are listed. They comprise 141 species and subspecies of lice; a further 59 louse records are listed at the generic level only, but the latter do not necessarily represent different species. A host-parasite list follows the list of lice.

INTRODUCTION

The Australian bird lice are partially known, with only about 400 species recorded and possibly that many again to be discovered (Murray *et al.*, 1990, 1993; Palma and Barker, 1996). Regionally, only the lice of Tasmania are better known than those from other Australian states (Green and Palma, 1991). Here we record the species of lice collected by the senior author from many Australian birds in several States but mostly in Western Australia, during the years 1967 to 1980. A host-parasite list is also included.

MATERIAL AND METHODS

Collecting lice from live birds can be a complicated venture, due to the legal aspect of obtaining permits to handle protected species and to the natural reluctance of many people to traumatise the bird by handling it and applying an insecticide to its plumage. However, the many thousands of birds which die annually on Australian roads and beaches are a very convenient source of lice for potential collectors.

Freshly killed birds, due to road collisions or to storms and other natural causes, were ideal for louse collecting. Ruffling their feathers over a large container or plastic sheet easily dislodged the lice which were picked up with a small brush previously wet with alcohol 70%. Birds which had been dead for some time, even mummified, still harboured lice which were collected in reasonably good condition and were suitable for systematic study. In all cases, a thorough wash of the bird remains further increased the size of the resulting louse sample. All samples were placed in small vials and preserved in alcohol 70% (ethanol or methanol). A label with the scientific name of the bird and field details such as locality, date and name of collector, all written with pencil or Indian

ink, was included in the same vial before sending it to a louse expert.

All samples were sent to the Department of Entomology of the British Museum (Natural History), where most of the lice were slide-mounted and identified by T. Clay, C. Lyal and C. Moreby. Subsequently, the junior author identified several specimens which had been left at the generic level by the BM(NH) staff. Lice clearly recognised either as natural stragglers or as contaminants by human agency (see Pilgrim and Palma, 1982: 2) have been excluded from this list. All the louse samples have been deposited in the BM(NH), with a few species which are also kept in the Museum of New Zealand Te Papa Tongarewa (indicated in the list by the acronym MONZ).

The avian classification, ordinal and family sequence and the nomenclature to the species level follow those of Christidis and Boles (1994), while the nomenclature of subspecies follows Condon (1975).

LIST OF LICE

Order PHTHIRAPTERA Haeckel, 1896

Suborder AMBLYCERA Kellogg, 1896

Family LAEMOBOTHRIIDAE Mjöberg, 1910

Genus *Laemobothrion* Nitzsch, 1818

Laemobothrion (Eulaemobothrion) atrum (Nitzsch, 1818)

ex *Fulica atra australis*. Western Australia: Lake Coolungup, 11 July 1972; Jolimont Lake, 4 January 1973.

Laemobothrion (Eulaemobothrion) sp.

ex *Porphyrio porphyrio bellus*. Western Australia: Perth, 4 October 1969, 5 October 1970, 4 July 1973.

Family MENOPONIDAE Mjöberg, 1910

Genus *Actornithophilus* Ferris, 1916*Actornithophilus ceruleus* (Timmermann, 1954)

ex *Anous tenuirostris*. Western Australia: Perth, 28 July 1973.

Actornithophilus hoplopteri (Mjöberg, 1910)

ex *Vanellus tricolor*. Western Australia: Perth, 11 August 1968. South Australia: Streaky Bay, 7 August 1977.

ex *Vanellus miles novaehollandiae*. South Australia: Streaky Bay, 23 October 1977.

Actornithophilus piceus lari (Packard, 1870)

ex *Larus novaehollandiae novaehollandiae*. Western Australia: Pelican Point, 18 November 1967; Perth, 30 July 1968; Mandurah, 6 September 1968.

Actornithophilus piceus piceus (Denny, 1842)

ex *Sterna bergii*. Western Australia: Perth, 1 June 1968; Mandurah, 13 April 1968.

Actornithophilus sp.

ex *Calidris tenuirostris*. Western Australia: Mandurah, 7 February 1970.

ex *Calidris ruficollis*. Western Australia: Perth, 10 August 1967; Quairading, 18 November 1967.

Genus *Ancistrona* Westwood, 1874*Ancistrona vagelli* (J.C. Fabricius, 1787)

ex *Daption capense*. Western Australia: Perth, 4 August 1972; Warnboro Sound, 27 August 1972.

ex *Pachyptila desolata*. Western Australia: Mullaloo Beach, 29 June 1968; Mandurah, 3 August 1968; Swanbourne Beach, 30 July 1973.

ex *Pachyptila belcheri*. Western Australia: Mandurah, 28 July 1968; Perth, 30 July 1968.

Genus *Austromenopon* Bedford, 1939*Austromenopon aegialitidis* (Durrant, 1906)

ex *Vanellus miles novaehollandiae*. South Australia: Streaky Bay, 23 October 1977.

Austromenopon atrofulvum (Piaget, 1880)

ex *Sterna bergii*. Western Australia: Perth, 1 June 1968; Mandurah, 13 April 1968.

ex *Sterna anaethetus*. Western Australia: Perth, 4 October 1970.

Austromenopon brevifimbriatum (Piaget, 1880)

ex *Fulmarus glacialisoides*. Western Australia: Perth, 1968 (MONZ); Scarborough Beach, 25 August 1968.

ex *Daption capense*. Western Australia: Perth, 4 August 1972; Warnboro Sound, 27 August 1972.

Austromenopon micrandum (Nitzsch (in Giebel), 1866)

ex *Recurvirostra novaehollandiae*. Western Australia: Perth, 26 September 1969; 7 March 1970.

Austromenopon navigans (Kellogg, 1896)

ex *Diomedea melanophris*. Western Australia: Perth, 4 October 1970.

Austromenopon paululum (Kellogg and Chapman, 1899)

ex *Puffinus pacificus*. Western Australia: Perth, 14 May 1969; Becher Point, 4 October 1970.

Austromenopon pinguis (Kellogg, 1896)

ex *Diomedea chrysostoma*. Western Australia: Perth, June 1970, August 1972.

ex *Diomedea chlororhynchos*. Western Australia: Perth, June 1970, 9 September 1972.

Austromenopon popellus (Piaget, 1890)

ex *Pterodroma macroptera*. Western Australia: Perth, 14 December 1969.

ex *Procellaria aequinoctialis*. Western Australia: Perth, 2 May 1973.

Austromenopon stammeri Timmermann, 1963

ex *Pachyptila desolata*. Western Australia: Mullaloo Beach, 29 June 1968; Mandurah, 3 August 1968; Swanbourne Beach, 30 July 1973.

ex *Pachyptila belcheri*. Western Australia: Mandurah, 28 July 1968; Perth, 30 July 1968.

Austromenopon transversum (Denny, 1842)

ex *Larus novaehollandiae novaehollandiae*. Western Australia: Perth, 30 July 1968; Coogee, 15 September 1968; Pelican Point, 25 October 1968; Perth, 15 December, 1968.

Austromenopon sp.

ex *Charadrius australis*. Western Australia: Cue, 23 August 1974.

Genus *Colpocephalum* Nitzsch, 1818*Colpocephalum aethiopicae* Price and Beer, 1965

ex *Threskiornis molucca*. Western Australia, northern region.

Colpocephalum eucarenum Burmeister, 1838

ex *Pelecanus conspicillatus*. Western Australia: Perth, 6 January 1968; Pelican Point, 17 November 1968.

Colpocephalum fregili Denny, 1842

ex *Corvus coronoides*. Western Australia: Perth, 29 September 1967; Bannister, 1967 (MONZ); Safety Bay, 27 October 1969.

ex *Corvus bennetti*. Western Australia: Latham, March 1967 (MONZ); Geraldton, 28 November 1969.

Genus *Cuculiphilus* Uchida, 1926*Cuculiphilus (Cuculiphilus) fasciatus* (Scopoli, 1763)

ex *Cuculus pallidus*. Western Australia: Perth, 15 November 1969; Wubin, 24 August 1974.

Genus *Eidmanniella* Kéler, 1938***Eidmanniella pellucida* (Rudow, 1869)**

ex *Phalacrocorax varius*. Western Australia: Perth, 27 October 1968; Mandurah, 2 September 1968; Warnboro Sound, 28 June 1970.

Genus *Franciscoloa* Conci, 1942***Franciscoloa* (*Franciscoloa*) *funerei* Price and Beer, 1966**

ex *Calyptorhynchus latirostris*. Western Australia: Perth, 16 July 1968; Helena Valley, 16 August 1968.

***Franciscoloa* (*Franciscoloa*) *magnifici* Price, 1969**

ex *Calyptorhynchus banksii naso*. Western Australia: North Bannister, 14 April 1968.

***Franciscoloa* (*Franciscoloa*) *roseicapillae* Price and Beer, 1966**

ex *Cacatua roseicapilla*. Western Australia: Latham, March 1967; Three Springs, 28 November 1969; Minilya River, 21 July 1975.

ex *Cacatua sanguinea*. Western Australia: Exmouth, June 1969; Roebourne, 22 July 1975.

Genus *Heteromenopon* Carriker, 1954***Heteromenopon* (*Keamenopon*) *kalamundae* Price, 1969**

ex *Purpureicephalus spurius*. Western Australia: Kalamunda, 26 January 1968.

***Heteromenopon* (*Keamenopon*) *psittacum* (Le Souëf and Bullen, 1902)**

ex *Platycercus elegans*. Victoria: Dunkeld, 1 April 1980.

ex *Barnardius zonarius semitorquatus*. Western Australia: Southwest region, 1967 – 1971.

Genus *Holomenopon* Eichler, 1941***Holomenopon leucoxanthum* (Burmeister, 1838)**

ex *Anas superciliosa*. Western Australia: Perth, April 1968.

ex *Aythya australis*. Western Australia: Perth, 17 March 1968.

Genus *Kelerimenopon* Conci, 1942***Kelerimenopon* (*Lorimenopon*) *galeritae* Price and Emerson, 1966**

ex *Cacatua roseicapilla*. Western Australia: Latham, March 1967; Three Springs, 28 November 1969; Minilya River, 21 July 1975. South Australia: southern Eyre Peninsula, August 1977.

***Kelerimenopon* (*Lorimenopon*) sp.**

ex *Calyptorhynchus latirostris*. Western Australia: Perth, 16 July 1968; Kalamunda, 1968.

Genus *Kurodaia* Uchida, 1926***Kurodaia cryptostigmatia* (Nitzsch, 1861)**

ex *Ninox novaeseelandiae*. Western Australia: Northcliffe, 13 September 1967; Rockingham, 22 November 1976.

***Kurodaia subpachygaster* (Piaget, 1880)**

ex *Tyto alba delicatula*. Western Australia: Serpentine, 31 May 1969. South Australia: 30 March 1980.

Genus *Menacanthus* Neumann, 1912***Menacanthus eurysternus* (Burmeister, 1838)**

ex *Anthochaera carunculata*. Western Australia: Perth, 26 October 1969, 22 December 1969.

ex *Zosterops lateralis gouldi*. Western Australia: Perth, 1967 – 1969.

***Menacanthus gonophaeus* (Burmeister, 1838)**

ex *Corvus bennetti*. Western Australia: Latham, March 1967.

***Menacanthus pusillus* (Nitzsch, 1866)**

ex *Anthus novaeseelandiae*. Western Australia: Eucla, 27 March 1980 (MONZ).

***Menacanthus* sp.**

ex *Corcorax melanorhamphos*. New South Wales: Wagga, 5 April 1980.

Genus *Meromenopon* Clay and Meinertzhagen, 1941***Meromenopon meropis* Clay and Meinertzhagen, 1941**

ex *Merops ornatus*. Western Australia: Lesmurdie, 8 November 1967; Armadale, 29 January 1968.

Genus *Myrsidea* Waterston, 1915***Myrsidea australiensis australiensis* Klockenhoff, 1971**

ex *Corvus coronoides*. Western Australia: Perth, 29 September 1967, 1 October 1967; Safety Bay, 27 October 1969; Bindoon, 23 August 1970, 11 October 1970; Mandurah, 23 August 1970, 11 October 1970.

***Myrsidea australiensis bennetti* Klockenhoff, 1971**

ex *Corvus bennetti*. Western Australia: Latham, March 1967 (MONZ); Geraldton, 28 November 1970.

***Myrsidea rustica* (Giebel, 1874)**

ex *Hirundo neoxena*. South Australia: Elliston, 29 October 1977.

***Myrsidea strangeri* Clay, 1970**

ex *Malurus splendens splendens*. Western Australia: Dwellingup, 14 April 1968.

***Myrsidea* sp.**

ex *Anthochaera carunculata*. Western Australia:

Perth, 11 September 1968, 3 October 1970, 18 December 1970; Mandurah, 17 July 1971.

ex *Grallina cyanoleuca*. Western Australia: North Dandalup, 31 May 1969.

ex *Rhipidura leucophrys*. Western Australia: Lake Jandakot, 13 April 1969.

ex *Gymnorhina tibicen dorsalis*. Western Australia: Guildford, 1 November 1967; Bushmead, 17 September 1968; Perth, 27 September 1968; Helena Valley, 17 October 1968; Safety Bay, 27 October 1968; Mandurah, 1 December 1968; Pinjarra, 7 December 1968.

ex *Strepera versicolor*. Western Australia: North Bannister, 25 April 1968.

ex *Corcorax melanorhamphos*. New South Wales: Wagga, 5 April 1980.

Genus *Piagetiella* Neumann, 1906

Piagetiella africana (Bedford, 1931)

ex *Pelecanus conspicillatus*. Western Australia: Perth, 6 January 1968; Pelican Point, 17 November 1968.

Genus *Plegadiphilus* Bedford, 1939

Plegadiphilus threskiornis Bedford, 1939

ex *Threskiornis molucca*. Western Australia: northern region.

Genus *Pseudomenopon* Mjöberg, 1910

Pseudomenopon australis Price and Emerson, 1986

ex *Gallinula ventralis*. Western Australia: Carnavon, 20 July 1975. South Australia: Mount Hope, 29 October 1977.

Pseudomenopon concretum (Piaget, 1880)

ex *Porphyrio porphyrio bellus*. Western Australia: Perth, 4 October 1969, 5 October 1970, 4 July 1973.

Pseudomenopon pilosum (Scopoli, 1763)

ex *Fulica atra australis*. Western Australia: Spearwood, 12 April 1969; Perth, June 1970; Lake Coolungup, 11 July 1972; Jolimont Lake, 4 January 1973.

Genus *Trinoton* Nitzsch, 1818

Trinoton querquedulae (Linnaeus, 1758)

ex *Anas superciliosa*. Western Australia: Perth, April 1968, 1 May 1973.

ex *Anas rhynchotis*. Western Australia: Perth, 1968.

ex *Anas gracilis*. Western Australia: Perth, 23 March 1968; Wanneroo, 1 December 1968.

ex *Malacorhynchos membranaceus*. Western Australia: Lake Yangebup, 29 June 1972.

Family RICINIDAE Neumann, 1890

Genus *Ricinus* De Geer, 1778

Ricinus sp.

ex *Gerygone fusca*. Western Australia: Perth, 28 April 1971.

Suborder ISCHNOCERA Kellogg, 1896

Family PHILOPTERIDAE Burmeister, 1838

Genus *Alcedoecus* Clay and Meinertzhagen, 1939

Alcedoecus alatochlypeatus (Piaget, 1885)

ex *Todiramphus sanctus*. Western Australia: Perth, 26 January 1973.

Alcedoecus delphax (Nitzsch (in Giebel), 1866)

ex *Dacelo novaeguineae*. Western Australia: Gleneagle, 25 April 1968; Serpentine River, 7 April 1969, 12 April 1969.

Genus *Anaticola* Clay, 1935

Anaticola crassicornis crassicornis (Scopoli, 1763)

ex *Anas superciliosa*. Western Australia: Perth, April 1968, 1 May 1973.

ex *Anas rhynchotis*. Western Australia: Perth, 1968.

ex *Anas gracilis*. Western Australia: Perth, 23 March 1968; Wanneroo, 21 January 1968.

ex *Malacorhynchos membranaceus*. Western Australia: Lake Yangebup, 29 June 1972.

Anaticola crassicornis nyrocae (Rudow, 1870)

ex *Aythya australis*. Western Australia: Perth, 17 March 1968.

Anaticola sp.

ex *Oxyura australis*. Western Australia: Perth, 8 June 1973; Lake Bibra, 23 August 1971.

ex *Biziura lobata*. Western Australia: Perth, 10 February 1968; Mandurah, 4 April 1969.

Genus *Anatoecus* Cummings, 1916

Anatoecus dentatus dentatus (Scopoli, 1763)

ex *Malacorhynchos membranaceus*. Western Australia: Lake Yangebup, 29 June 1972.

ex *Aythya australis*. Western Australia: Perth, 17 March 1968.

Anatoecus icterodes icterodes (Nitzsch, 1818)

ex *Oxyura australis*. Western Australia: Perth, 8 June 1973.

ex *Anas superciliosa*. Western Australia: Perth, April 1968.

ex *Anas rhynchotis*. Western Australia: Perth, 1968.

ex *Malacorhynchos membranaceus*. Western Australia: Lake Yangebup, 29 June 1972.

ex *Aythya australis*. Western Australia: Perth, 17 March 1968.

Anatoecus sp.

ex *Oxyura australis*. Western Australia: Perth, 8 June 1973; Lake Bibra, 23 August 1971.

ex *Biziura lobata*. Western Australia: Mandurah, 4 April 1969.

Genus *Aquanirmus* Clay and Meinertzhagen, 1939

***Aquanirmus* sp.**

ex *Poliiocephalus poliocephalus*. Western Australia: Perth, January 1971.

Genus *Ardeicola* Clay, 1935

***Ardeicola pilgrimi* Tandan, 1972**

ex *Egretta novaehollandiae*. Western Australia: Perth, 1970.

Genus *Austrogoniodes* Harrison, 1915

***Austrogoniodes concii* (Kéler, 1952)**

ex *Eudypetes chrysocome*. Western Australia: Perth, 7 July 1968.

***Austrogoniodes cristati* Kéler, 1952**

ex *Eudypetes chrysocome*. Western Australia: Perth, 7 July 1968.

***Austrogoniodes metoecus* Clay, 1971**

ex *Biziura lobata*. Western Australia: Perth, 10 February 1968; Mandurah, 4 April 1969.

***Austrogoniodes waterstoni* (Cummings, 1914)**

ex *Eudypetula minor novaehollandiae*. Western Australia: Perth, 10 February 1968.

Genus *Brueelia* Kéler, 1936

***Brueelia semiannulata* (Piaget, 1883)**

ex *Gymnorhina tibicen dorsalis*. Western Australia: Floreat, 28 December 1967; Bushmead, 17 September 1968; Perth, 27 September 1968, June 1970; Pinjarra, 7 October 1968; Helena Valley, 17 October 1968; Safety Bay, 27 October 1968; Mandurah, 1 December 1968, April 1975.

ex *Gymnorhina tibicen hypoleuca*. South Australia: Tod River, 28 October 1977.

***Brueelia tenuis* (Burmeister, 1838)**

ex *Hirundo neoxena*. South Australia: Elliston, 29 October 1977.

***Brueelia* sp.**

ex *Merops ornatus*. Western Australia: Lesmurdie, 8 November 1967; Kalamunda, January 1968.

ex *Anthochaera carunculata*. South Australia: Port Lincoln, 9 October 1977.

ex *Manorina flavigula*. South Australia: Streaky Bay, 23 October 1977.

ex *Lichenostomus ornatus*. South Australia: Yaninee, 18 September 1977; Kyancutta, 1 October 1977.

ex *Pomatostomus superciliosus*. South Australia: southern Eyre Peninsula, August 1977.

ex *Grallina cyanoleuca*. Western Australia: Perth, 1968 – 1969; Rockingham, 1973.

ex *Coracina novaehollandiae*. Western Australia: Perth, 2 May 1973.

ex *Strepera versicolor*. Western Australia: North Bannister, 25 April 1968; Gleneagle, 18 May 1968; Bannister, 18 May 1968.

ex *Corvus coronoides*. Western Australia: Perth, 29 September 1967; Bindoon, 23 August 1970; Mandurah, 11 October 1970.

ex *Corvus bennetti*. Western Australia: Latham, March 1967 (MONZ).

ex *Corcorax melanorhamphos*. New South Wales: Wagga, 5 April 1980 (MONZ).

ex *Cincloramphus cruralis*. Western Australia: Karratha, 22 July 1975; Tammin, 9 December 1976.

Genus *Campanulotes* Kéler, 1939

***Campanulotes flavus flavus* (Rudow, 1869)**

ex *Phaps chalcoptera*. Western Australia: Binu, 20 July 1975.

***Campanulotes flavus elegans* (Tendeiro, 1978)**

ex *Phaps elegans*. South Australia: Tod River, 28 October 1977.

***Campanulotes* sp.**

ex *Ocyphaps lophotes*. Western Australia: Roebourne, 9 August 1974. South Australia: Warremboo, 9 October 1977; Elliston, 30 October 1977.

Genus *Carduiceps* Clay and Meinertzhagen, 1939

***Carduiceps zonarius* (Nitzsch (in Giebel), 1866)**

ex *Calidris ruficollis*. Western Australia: Perth, 10 August 1967; Quairading, 18 November 1967.

Genus *Cirrothirius* Timmermann, 1953

***Cirrothirius recurvirostrae* (Linnaeus, 1758)**

ex *Recurvirostra novaehollandiae*. Western Australia: Perth, 26 September 1969; 7 March 1970.

Genus *Coloceras* Taschenberg, 1882

***Coloceras grande* Tendeiro, 1973**

ex *Phaps chalcoptera*. Western Australia: Mandurah, 26 December 1967.

***Coloceras* sp.**

ex *Phaps elegans*. South Australia: Port Lincoln, 10 October 1977.

ex *Ocyphaps lophotes*. Western Australia:

Roebourne, 9 August 1974. South Australia: Warremboo, 9 October 1977; Elliston, 30 October 1977 (MONZ).

ex *Geophaps plumifera*. Western Australia: Mount Goldsworthy, 17 August 1974.

Genus *Columbicola* Ewing, 1929

Columbicola angustus (Rudow, 1869)

ex *Phaps chalcoptera*. Western Australia: Mandurah, 26 December 1967; Binnu, 20 July 1975. South Australia: Port Lincoln, 27 October 1977.

Columbicola mckeani Tendeiro, 1973

ex *Ocyphaps lophotes*. South Australia: Warremboo, 9 October 1977; Elliston, 30 October 1977 (MONZ).

Columbicola tasmaniensis Tendeiro, 1967

ex *Phaps elegans*. South Australia: Port Lincoln, 10 October 1977 (MONZ).

Columbicola sp.

ex *Geophaps plumifera*. Western Australia: Mount Goldsworthy, 17 August 1974.

Genus *Craspedorrhynchus* Kéler, 1938

Craspedorrhynchus sp.

ex *Aquila audax*. Western Australia: Highbury, 5 February 1970.

Genus *Cuculoecus* Ewing, 1926

Cuculoecus laticlypeatus (Piaget, 1871)

ex *Cacomantis flabelliformis*. Western Australia: Perth, June 1970.

Cuculoecus sp.

ex *Cuculus pallidus*. Western Australia: Perth, 15 November 1969; Wubin, 24 August 1974.

Genus *Degeeriella* Neumann, 1906

Degeeriella elani Tendeiro, 1955

ex *Elanus axillaris*. Western Australia: Perth, September 1967.

Degeeriella fulva (Giebel, 1874)

ex *Hieraetus morphnoides*. Western Australia: Pithara, 29 June 1969.

Degeeriella fusca (Denny, 1842)

ex *Circus approximans*. South Australia: Adelaide, 5 January 1977.

Degeeriella rufa rufa (Burmeister, 1838)

ex *Falco berigora*. Western Australia: Perth, 10 February 1968.

ex *Falco longipennis*. Western Australia: Perth, 13 April 1968.

ex *Falco cenchroides*. Western Australia: Perth, 17 November 1968; Mandurah, 26 February 1971.

Genus *Docophoroides* Giglioli, 1864

Docophoroides simplex (Waterston, 1914)

ex *Diomedea melanophris*. Western Australia: Mandurah, 3 August 1968; Perth, 4 October 1970 (MONZ).

ex *Diomedea chlororhynchos*. Western Australia: Perth, June 1970, 4 October 1970, 9 September 1972.

Genus *Echinophilopterus* Ewing, 1927

Echinophilopterus angustoclypeatus (Piaget, 1880)

ex *Polytelis anthopeplus*. Victoria: 31 March 1980.

Genus *Emersoniella* Tendeiro, 1965

Emersoniella bracteata (Nitzsch (in Giebel), 1866)

ex *Dacelo novaeguineae*. Western Australia: Gleneagle, 25 April 1968; Serpentine River, 7 April 1969, 12 April 1969.

Genus *Forficuloecus* Conci, 1941

Forficuloecus forficula (Piaget, 1871)

ex *Psephotus haematonotus*. Victoria: Hopeville, 1 April 1980 (MONZ).

Forficuloecus palmai Guimarães, 1985

ex *Barnardius zonarius semitorquatus*. Western Australia: Perth, 26 January 1973, 4 April 1973.

ex *Purpureicephalus spurius*. Western Australia: Perth, 30 August 1974.

Genus *Fulicoffula* Clay and Meinertzhagen, 1938

Fulicoffula lurida (Nitzsch, 1818)

ex *Fulica atra australis*. Western Australia: Lake Karrinyup, 21 January 1968; Spearwood, 12 April 1969; Perth, June 1970; Lake Coolungup, 11 July 1972; Jolimont Lake, 4 January 1973.

Fulicoffula sp.

ex *Gallinula ventralis*. Western Australia: Carnavon, 20 July 1975. South Australia: Mount Hope, 29 October 1977.

Genus *Goniodes* Nitzsch, 1818

Goniodes fissus (Rudow, 1869)

ex *Alectura lathamii*. Queensland: Northeast region, 12 April 1980.

Goniodes sp.

ex *Alectura lathamii*. Queensland: Northeast region, 12 April 1980.

Genus *Halipeurus* Thompson, 1936

Halipeurus (Halipeurus) mirabilis Thompson, 1940

ex *Puffinus pacificus*. Western Australia: Perth, 14 May 1969.

Halipeurus (Synnautes) pelagicus (Denny, 1842)
ex *Pelagodroma marina*. Western Australia: Perth,
29 December 1968.

Halipeurus (Halipeurus) placodus Edwards, 1961
ex *Puffinus assimilis tunneyi*. Western Australia:
Becher Point, 4 October 1970.

Halipeurus (Halipeurus) procellariae (J.C.
Fabricius, 1775)
ex *Pterodroma macroptera*. Western Australia:
Perth, 14 December 1969.

ex *Pterodroma lessonii*. Western Australia: Perth,
June 1970.

ex *Pterodroma mollis*. Western Australia: Sorrento
Beach, 7 August 1968.

Genus *Incidifrons* Ewing, 1929

Incidifrons fulicae (Linnaeus, 1758)
ex *Fulica atra australis*. Western Australia:
Spearwood, 12 April 1969; Lake Coolungup, 11
July 1972; Jolimont Lake, 4 January 1973.

Genus *Lipeurus* Nitzsch, 1818

Lipeurus crassus Rudow, 1869
ex *Alectura lathamii*. Queensland: Northeast region,
12 April 1980.

Genus *Lunaceps* Clay and Meinertzhagen, 1939

Lunaceps drosti Timmermann, 1954
ex *Calidris tenuirostris*. Western Australia:
Mandurah, 7 February 1970.

Lunaceps sp.

ex *Calidris ruficollis*. Western Australia: Perth, 10
August 1967; Quairading, 18 November 1967.

Genus *Meropoecus* Eichler, 1940

Meropoecus sp.
ex *Merops ornatus*. Western Australia: Lesmurdie,
8 November 1967; Kalamunda, January 1968.

Genus *Mulcticola* Clay and Meinertzhagen, 1938

Mulcticola sp.
ex *Eurostopus argus*. Western Australia: Mount
Goldsworthy, 23 July 1975.

Genus *Naubates* Bedford, 1930

Naubates fuliginosus (Taschenberg, 1882)
ex *Procellaria aequinoctialis*. Western Australia:
Perth, 2 May 1973.

Naubates harrisoni Bedford, 1930

ex *Puffinus pacificus*. Western Australia: Perth, 14
May 1969.

ex *Puffinus assimilis tunneyi*. Western Australia:
Becher Point, 4 October 1970.

Naubates heteroproctus Harrison, 1937
ex *Pterodroma macroptera*. Western Australia:
Perth, 14 December 1969.

Naubates prioni (Enderlein, 1908)

ex *Pachyptila salvini*. Western Australia:
Mandurah, 25 July 1970.

ex *Pachyptila desolata*. Western Australia: Mullaloo
Beach, 29 June 1968; Mandurah, 3 August 1968;
Warnboro Sound, 28 June 1970; Perth, 29 August
1972; Swanbourne Beach, 30 July 1973.

ex *Pachyptila belcheri*. Western Australia:
Mandurah, 28 July 1968; Perth, 30 July 1968.

ex *Pachyptila turtur*. Western Australia: Perth, 30
July 1973.

Naubates pterodromi Bedford, 1930 subspecies

ex *Pterodroma lessonii*. Western Australia: Perth,
June 1970.

Genus *Neopsittaconirmus* Conci, 1942

Neopsittaconirmus borgioli Conci, 1942

ex *Calyptorhynchus banksii naso*. Western Australia:
North Bannister, 14 April 1968.

ex *Calyptorhynchus latirostris*. Western Australia:
Perth, 16 July 1968; Helena Valley, 16 August 1968.

Neopsittaconirmus circumfasciatus (Piaget, 1880)

ex *Polytelis anthopeplus*. Victoria: 31 March 1980.

ex *Platycercus elegans*. Victoria: Dunkeld, 1 April
1980 (MONZ).

ex *Barnardius zonarius semitorquatus*. Western
Australia: Mandurah, 8 January 1971.

Neopsittaconirmus eos (Giebel, 1874)

ex *Cacatua roseicapilla*. Western Australia: Latham,
March 1967; Byford, 12 January 1969; Three
Springs, 28 November 1969; Minilya River, 21 July
1975. South Australia: southern Eyre Peninsula, 30
October 1977 (MONZ).

ex *Cacatua sanguinea*. Western Australia:
Exmouth, June 1969.

Neopsittaconirmus sp.

ex *Nymphicus hollandicus*. Western Australia:
Perth, 11 August 1968.

ex *Purpureicephalus spurius*. Western Australia:
Perth, 30 August 1974.

Genus *Oxylipeurus* Mjöberg, 1910

Oxylipeurus ischnocephalus (Taschenberg, 1882)

ex *Alectura lathamii*. Queensland: Northeast region,
12 April 1980.

Genus *Paraclisis* Timmermann, 1965

Paraclisis diomedea (J.C. Fabricius, 1775)

ex *Diomedea melanophris*. Western Australia: Perth,

± October 1970 (MONZ); Mandurah, 3 August 1968.

ex *Diomedea chrysostoma*. Western Australia: Perth, June 1970, 4 October 1970, August 1972.

ex *Diomedea chlororhynchos*. Western Australia: Perth, June 1970.

ex *Phoebetria fusca*. Western Australia: Rockingham, 2 August 1968.

***Paraclisis obscura* (Rudow, 1869)**

ex *Macronectes giganteus*. Western Australia: Perth, 7 July 1968.

Genus *Pectinopygus* Mjöberg, 1910

***Pectinopygus australis* Thompson, 1948**

ex *Pelecanus conspicillatus*. Western Australia: Perth, 6 January 1968; Pelican Point, 17 November 1968.

***Pectinopygus dispar* (Piaget, 1880)**

ex *Phalacrocorax melanoleucos*. Western Australia: Mandurah, 2 January 1970; Perth, 10 May 1973. Tasmania: Fisher Island, 26 February 1970.

***Pectinopygus setosus* (Piaget, 1880)**

ex *Phalacrocorax sulcirostris*. Western Australia: Perth, 13 November 1969.

***Pectinopygus varius* Timmermann, 1964**

ex *Phalacrocorax varius*. Western Australia: Perth, 27 October 1968; Mandurah, 2 September 1968, 26 January 1970, 3 April 1970; Warnboro Sound, 28 June 1970.

Genus *Penenirmus* Clay and Meinertzhagen, 1938

***Penenirmus* sp.**

ex *Anthus novaeseelandiae*. Western Australia: Northam, 4 September 1976.

Genus *Perineus* Thompson, 1936

***Perineus circumfasciatus* Kéler, 1957**

ex *Diomedea melanophris*. Western Australia: Perth, 4 October 1970; Mandurah, 3 August 1968.

***Perineus nigrolimbatus* (Giebel, 1874)**

ex *Fulmarus glacialoides*. Western Australia: Perth, 1968 (MONZ); Scarborough Beach, 25 August 1968.

Genus *Philopterus* Nitzsch, 1818

***Philopterus excisus microsomaticus* Tandan, 1955**

ex *Hirundo neoxena*. South Australia: Elliston, 29 October 1977.

***Philopterus* sp.**

ex *Acanthiza chrysorrhoa*. Western Australia: Perth, 1 October 1967.

ex *Anthochaera carunculata*. Western Australia: Perth, 3 October 1970, 18 December 1970;

Mandurah, 17 July 1971; Rockingham, 9 October 1977. South Australia: Port Lincoln, 9 October 1977.

ex *Manorina flavigula*. South Australia: Streaky Bay, 23 October 1977.

ex *Lichenostomus ornatus*. South Australia: 28 March 1980.

ex *Grallina cyanoleuca*. Western Australia: Rockingham, 3 August 1968.

ex *Gymnorhina tibicen dorsalis*. Western Australia: Bushmead, 17 September 1968; Perth, 27 September 1968, June 1970; Helena Valley, 17 October 1968; Safety Bay, 27 October 1968; Mandurah, 1 December 1968, April 1975; Rockingham, 27 July 1969, 26 August 1972; Cardup, 10 August 1969; Wilson, 25 October 1969; Perth, 7 November 1969; Mandurah, 8 December 1969, 31 December 1969; Clontarf, July 1970.

ex *Strepera versicolor*. Western Australia: North Bannister, 25 April 1968; Gleneagle, 18 May 1968; Bannister, 18 May 1968.

ex *Corvus coronoides*. Western Australia: Perth, 29 September 1967, 1 October 1967; Bindoon, 23 August 1970, 11 October 1970; Mandurah, 23 August 1970, 11 October 1970.

ex *Corvus bennetti*. Western Australia: Latham, March 1967; Geraldton, 28 November 1969.

ex *Anthus novaeseelandiae*. Western Australia: Perth, 17 September 1968; Perth, 1969 (MONZ).

Genus *Physconelloides* Ewing, 1927

***Physconelloides australiensis* Tendeiro, 1969**

ex *Phaps chalcoptera*. Western Australia: Binnu, 20 July 1975.

ex *Phaps elegans*. South Australia: Port Lincoln, 10 October 1977.

***Physconelloides strangeri* Tendeiro, 1980**

ex *Phaps chalcoptera*. Western Australia: Perth, 1967; Mandurah, 26 December 1967; Binnu, 20 July 1975. South Australia: Port Lincoln, 27 October 1977.

Genus *Podargoecus* Emerson and Price, 1966

***Podargoecus strigoides* Emerson and Price, 1966**

ex *Podargus strigoides*. Western Australia: Perth, 13 January 1968, 29 May 1971; Gnangara, 27 October 1968; Hamilton Hill, 12 April 1969; Mandurah, 6 September 1969, 24 January 1970.

***Podargoecus tasmaniensis* Price, 1976**

ex *Aegotheles cristatus*. South Australia: Wirrula, 9 April 1977.

Genus *Pseudonirmus* Mjöberg, 1910

***Pseudonirmus gurlti* (Taschenberg, 1882)**

ex *Daption capense*. Western Australia: Warnboro Sound, 27 August 1972.

Genus *Psittoecus* Conci, 1942***Psittoecus eos* (Rudow, 1869)**

ex *Cacatua roseicapilla*. Western Australia: Latham, March 1967 (MONZ); Byford, 12 January 1969; Three Springs, 28 November 1969; Minilya River, 21 July 1975. South Australia: southern Eyre Peninsula, 30 October 1977.

ex *Cacatua sanguinea*. Western Australia: Exmouth, June 1969; Roebourne, 22 July 1975.

***Psittoecus* sp.**

ex *Calyptorhynchus banksii naso*. Western Australia: North Bannister, 14 April 1968.

ex *Calyptorhynchus latirostris*. Western Australia: Perth, 16 July 1968; Helena Valley, 16 August 1968.

Genus *Quadriceps* Clay and Meinertzhagen, 1939***Quadriceps australis* Emerson and Price, 1986**

ex *Vanellus tricolor*. Western Australia: Perth, 11 August 1968. South Australia: Streaky Bay, 7 August 1977.

***Quadriceps bicuspis dressleri* Timmermann, 1971**

ex *Elsayornis melanops*. Western Australia: Perth, 7 April 1968.

***Quadriceps charadrii hospes* (Nitzsch (in Giebel), 1866)**

ex *Pluvialis squatarola*. Western Australia: Rottneest Island, 4 January 1973.

***Quadriceps decipiens* (Denny, 1842)**

ex *Recurvirostra novaehollandiae*. Western Australia: Perth, 26 September 1969, 7 March 1970.

***Quadriceps hopkinsi hopkinsi* Timmermann, 1952**

ex *Anous tenuirostris*. Western Australia: Perth, 28 July 1973.

***Quadriceps legatus* Timmermann, 1952**

ex *Sterna anaethetus*. Western Australia: Perth, 4 October 1970.

***Quadriceps neoaustralis* Emerson and Price, 1986**

ex *Charadrius australis*. Western Australia: Cue, 23 August 1974.

***Quadriceps nychthemerus* (Burmeister, 1838)**

ex *Sterna nereis*. Western Australia: Pelican Point, January 1967.

***Quadriceps punctatus lingulatus* (Waterston, 1914)**

ex *Larus novaehollandiae novaehollandiae*. Western Australia: Perth, 30 July 1968; Coogee, 15 September 1968; Pelican Point, 25 October 1968; Perth, 15 December, 1968, 13 November 1969. Tasmania: Fisher Island, 23 February 1970.

***Quadriceps renschi* Timmermann, 1954**

ex *Vanellus miles novaehollandiae*. South Australia:

Streaky Bay, 23 October 1977. Tasmania: Fisher Island, 25 February 1970.

***Quadriceps sellatus* (Burmeister, 1838)**

ex *Sterna bergii*. Western Australia: Perth, 1 June 1968; Mandurah, 18 August 1968.

***Quadriceps signatus* (Piaget, 1880)**

ex *Recurvirostra novaehollandiae*. Western Australia: Perth, 26 September 1969, 7 March 1970.

Genus *Rallicola* Johnston and Harrison, 1911***Rallicola bournei* Price and Emerson, 1986**

ex *Gallinula ventralis*. Western Australia: Carnavon, 20 July 1975. South Australia: Mount Hope, 29 October 1977.

***Rallicola fulicae* (Denny, 1842)**

ex *Fulica atra australis*. Western Australia: Lake Karrinyup, 21 January 1968; Spearwood, 12 April 1969; Perth, June 1970; Lake Coolungup, 11 July 1972; Jolimont Lake, 4 January 1973.

***Rallicola lugens* (Giebel, 1874)**

ex *Porphyrio porphyrio bellus*. Western Australia: Perth, 4 October 1969, 5 October 1970, 4 July 1973.

***Rallicola ortygometae philippensis* Emerson, 1966**

ex *Gallirallus philippensis australis*. Western Australia: Spearwood, 24 April 1969.

Genus *Saemundssonina* Timmermann, 1936***Saemundssonina* (*Saemundssonina*) *africana sycophanta* Timmermann, 1962**

ex *Vanellus miles novaehollandiae*. Tasmania: Fisher Island, 25 February 1970.

***Saemundssonina* (*Saemundssonina*) *bicolor* (Rudow, 1870)**

ex *Fulmarus glacialisoides*. Western Australia: Perth, 25 August 1968 (MONZ).

***Saemundssonina* (*Saemundssonina*) *conica naumanni* (Giebel, 1874)**

ex *Pluvialis squatarola*. Western Australia: Rottneest Island, 4 January 1973.

***Saemundssonina* (*Saemundssonina*) *desolata* Timmermann, 1959**

ex *Pachyptila salvini*. Western Australia: Mandurah, 25 July 1970.

ex *Pachyptila desolata*. Western Australia: Mullaloo Beach, 29 June 1968; Mandurah, 3 August 1968; Warnboro Sound, 28 June 1970; Perth, 29 August 1972; Swanbourne Beach, 30 July 1973.

ex *Pachyptila belcheri*. Western Australia: Mandurah, 28 July 1968; Perth, 30 July 1968.

ex *Pachyptila turtur*. Western Australia: Perth, 30 July 1973.

***Saemundssonina (Saemundssonina) lari* (O. Fabricius, 1780)**

ex *Larus novaehollandiae novaehollandiae*. Western Australia: Pelican Point, 18 November 1967; Perth, 30 July 1968, 15 December, 1968, 13 November 1969; Lake Coolungup, 17 July 1971. Tasmania: Fisher Island, 23 February 1970.

***Saemundssonina (Saemundssonina) laticaudata* (Rudow, 1869)**

ex *Sterna bergii*. Western Australia: Perth, 1 June 1968; Mandurah, 18 August 1968.

***Saemundssonina (Saemundssonina) lockleyi* Clay, 1949**

ex *Sterna anaethetus*. Western Australia: Perth, 4 October 1970.

***Saemundssonina (Saemundssonina) melanocephalus* (Burmeister, 1838)**

ex *Sterna nereis*. Western Australia: Pelican Point, January 1967.

***Saemundssonina (Saemundssonina) meridiana* Timmermann, 1950**

ex *Sterna anaethetus*. Western Australia: Perth, 4 October 1970.

***Saemundssonina (Saemundssonina) minitrans* Timmermann, 1977**

ex *Malacorhynchos membranaceus*. Western Australia: Lake Yangebup, 29 June 1972.

***Saemundssonina (Saemundssonina) stammeri* Timmermann, 1959**

ex *Daption capense*. Western Australia: Perth, 4 August 1972; Warnboro Sound, 27 August 1972.

***Saemundssonina (Saemundssonina) tringae sibiriae* Martens, 1974**

ex *Calidris tenuirostris*. Western Australia: Mandurah, 7 February 1970.

***Saemundssonina (Saemundssonina) tringae tringae* (O. Fabricius, 1780)**

ex *Calidris ruficollis*. Western Australia: Perth, 10 August 1967; Quairading, 18 November 1967.

***Saemundssonina* sp.**

ex *Vanellus tricolor*. South Australia: Streaky Bay, 7 August 1977.

Genus *Strigiphilus* Mjöberg, 1910***Strigiphilus aitkeni* Clay, 1966**

ex *Tyto alba delicatula*. Western Australia: Perth, 6 March 1968, 23 March 1968; Mandurah, 11 October 1969; Welshpool, 10 September 1972. South Australia: 30 March 1980.

***Strigiphilus vapidus* Clay, 1977**

ex *Ninox novaeseelandiae*. Western Australia:

Northcliffe, 13 September 1967; Perth, 6 March 1968, 9 February 1973; Rockingham, 22 November 1976.

Genus *Trabeculus* Rudow, 1866***Trabeculus hexakon* (Waterston, 1914)**

ex *Procellaria aequinoctialis*. Western Australia: Perth, 2 May 1973.

ex *Puffinus pacificus*. Western Australia: Perth, 14 May 1969.

***Trabeculus schillingi* Rudow, 1866**

ex *Pterodroma macroptera*. Western Australia: Perth, 14 December 1969.

ex *Pterodroma lessonii*. Western Australia: Perth, June 1970.

Genus *Turnicola* Clay and Meinertzhagen, 1938***Turnicola* sp.**

ex *Turnix varia*. Western Australia: Perth, 31 October 1970.

HOST – PARASITE LIST**Class AVES****Order GALLIFORMES****Family MEGAPODIIDAE****Genus *Alectura* Latham, 1824**

Alectura lathamii Gray, 1831 Brush-turkey

Goniodes fissus (Rudow, 1869)

Goniodes sp.

Lipeurus crassus Rudow, 1869

Oxylipeurus ischnocephalus (Taschenberg, 1882)

Order ANSERIFORMES**Family ANATIDAE****Genus *Oxyura* Bonaparte, 1827**

Oxyura australis Gould, 1836 Blue-billed Duck

Anaticola sp.

Anatoecus icterodes icterodes (Nitzsch, 1818)

Anatoecus sp.

Genus *Biziura* Stephens, 1824

Biziura lobata (Shaw, 1796) Musk Duck

Anaticola sp. (nymphs only)

Anatoecus sp. (females only)

Austrogoniodes metoecus Clay, 1971

Genus *Anas* Linnaeus, 1758*Anas superciliosa* Gmelin, 1789

Pacific Black Duck

Anaticola crassicornis crassicornis (Scopoli, 1763)*Anatoecus icterodes icterodes* (Nitzsch, 1818)*Holomenopon leucoxanthum* (Burmeister, 1838)*Trinoton querquedulae* (Linnaeus, 1758)*Anas rhynchotis* Latham, 1801

Australasian Shoveler

Anaticola crassicornis crassicornis (Scopoli, 1763)*Anatoecus icterodes icterodes* (Nitzsch, 1818)*Trinoton querquedulae* (Linnaeus, 1758)*Anas gracilis* Buller, 1869

Grey Teal

Anaticola crassicornis crassicornis (Scopoli, 1763)*Trinoton querquedulae* (Linnaeus, 1758)Genus *Malacorhynchos* Swainson, 1831*Malacorhynchos membranaceus* (Latham, 1801)

Pink-eared Duck

Anaticola crassicornis crassicornis (Scopoli, 1763)*Anatoecus dentatus dentatus* (Scopoli, 1763)*Anatoecus icterodes icterodes* (Nitzsch, 1818)*Saemundssonina* (*Saemundssonina*) *minitrans* Timmermann, 1977*Trinoton querquedulae* (Linnaeus, 1758)Genus *Aythya* Boie, 1822*Aythya australis* (Eyton, 1838) White-eyed Duck*Anaticola crassicornis nyrocae* (Rudow, 1870)*Anatoecus dentatus dentatus* (Scopoli, 1763)*Anatoecus icterodes icterodes* (Nitzsch, 1818)*Holomenopon leucoxanthum* (Burmeister, 1838)

Order PODICIPEDIFORMES

Family PODICIPEDIDAE

Genus *Poliocephalus* Selby, 1840*Poliocephalus poliocephalus* (Jardine and Selby, 1827) Hoary-headed Grebe*Aquanirmus* sp.

Order SPHENISCIFORMES

Family SPHENISCIDAE

Genus *Eudyptes* Vieillot, 1816*Eudyptes chrysocome* (Forster, 1781)

Rockhopper Penguin

Austrogoniodes concii (Kéler, 1952)*Austrogoniodes cristati* Kéler, 1952Genus *Eudyptula* Bonaparte, 1856*Eudyptula minor novaehollandiae* (Stephens, 1826) Little Penguin*Austrogoniodes waterstoni* (Cummings, 1914)

Order PROCELLARIIFORMES

Family PROCELLARIIDAE

Genus *Macronectes* Richmond, 1905*Macronectes giganteus* (Gmelin, 1789)

Southern Giant-petrel

Paraclisis obscura (Rudow, 1869)Genus *Fulmarus* Stephens, 1826*Fulmarus glacialis* (Smith, 1840)

Southern Fulmar

Austromenopon brevifimbriatum (Piaget, 1880)*Perineus nigrolimbatus* (Giebel, 1874)*Saemundssonina* (*Saemundssonina*) *bicolor* (Rudow, 1870)Genus *Daption* Stephens, 1826*Daption capense* (Linnaeus, 1758) Cape Petrel*Ancistrana vagelli* (J.C. Fabricius, 1787)*Austromenopon brevifimbriatum* (Piaget, 1880)*Pseudonirmus gurtli* (Taschenberg, 1882)*Saemundssonina* (*Saemundssonina*) *stammeri* Timmermann, 1959Genus *Pterodroma* Bonaparte, 1856*Pterodroma macroptera* (Smith, 1840)

Great-winged Petrel

Austromenopon popellus (Piaget, 1890)*Halipeurus* (*Halipeurus*) *procellariae* (J.C. Fabricius, 1775)*Naubates heteroproctus* Harrison, 1937*Trabeculus schillingi* Rudow, 1866*Pterodroma lessonii* (Garnot, 1826)

White-headed Petrel

Halipeurus (*Halipeurus*) *procellariae* (J.C. Fabricius, 1775)*Naubates pterodromi* Bedford, 1930 subspecies*Trabeculus schillingi* Rudow, 1866*Pterodroma mollis* (Gould, 1844)

Soft-plumaged Petrel

Halipeurus (*Halipeurus*) *procellariae* (J.C. Fabricius, 1775)Genus *Pachyptila* Illiger, 1811*Pachyptila salvini* (Mathews, 1912) Salvin's Prion*Naubates prioni* (Enderlein, 1908)

Saemundssonina (*Saemundssonina*) *desolata*
Timmermann, 1959

***Pachyptila desolata* (Gmelin, 1789) Antarctic Prion**

Ancistrona vagelli (J.C. Fabricius, 1787)

Austromenopon stammeri Timmermann, 1963

Naubates prioni (Enderlein, 1908)

Saemundssonina (*Saemundssonina*) *desolata*
Timmermann, 1959

***Pachyptila belcheri* (Mathews, 1912)**

Slender-billed Prion

Ancistrona vagelli (J.C. Fabricius, 1787)

Austromenopon stammeri Timmermann, 1963

Naubates prioni (Enderlein, 1908)

Saemundssonina (*Saemundssonina*) *desolata*
Timmermann, 1959

***Pachyptila turtur* (Kuhl, 1820) Fairy Prion**

Naubates prioni (Enderlein, 1908)

Saemundssonina (*Saemundssonina*) *desolata*
Timmermann, 1959

Genus *Procellaria* Linnaeus, 1758

***Procellaria aequinoctialis* Linnaeus, 1758**

White-chinned Petrel

Austromenopon popellus (Piaget, 1890)

Naubates fuliginosus (Taschenberg, 1882)

Trabeculus hexakon (Waterston, 1914)

Genus *Puffinus* Brisson, 1760

***Puffinus pacificus* (Gmelin, 1789)**

Wedge-tailed Shearwater

Austromenopon paululum (Kellogg and Chapman, 1899)

Halipeurus (*Halipeurus*) *mirabilis* Thompson, 1940

Naubates harrisoni Bedford, 1930

Trabeculus hexakon (Waterston, 1914)

***Puffinus assimilis tunneyi* Mathews, 1912**

Little Shearwater

Halipeurus (*Halipeurus*) *placodus* Edwards, 1961

Naubates harrisoni Bedford, 1930

Family DIOMEDEIDAE

Genus *Diomedea* Linnaeus, 1758

***Diomedea melanophris* Temminck, 1828**

Black-browed Albatross

Austromenopon navigans (Kellogg, 1896)

Docophoroides simplex (Waterston, 1914)

Paraclisis diomedae (J.C. Fabricius, 1775)

Perineus circumfasciatus Kéler, 1957

***Diomedea chrysostoma* Forster, 1785**

Grey-headed Albatross

Austromenopon pinguis (Kellogg, 1896)

Paraclisis diomedae (J.C. Fabricius, 1775)

***Diomedea chlororhynchos* Gmelin, 1789**

Yellow-nosed Albatross

Austromenopon pinguis (Kellogg, 1896)

Docophoroides simplex (Waterston, 1914)

Paraclisis diomedae (J.C. Fabricius, 1775)

Genus *Phoebetria* Reichenbach, 1853

***Phoebetria fusca* (Hilsenberg, 1822)**

Sooty Albatross

Paraclisis diomedae (J.C. Fabricius, 1775)

Family HYDROBATIDAE

Genus *Pelagodroma* Reichenbach, 1853

***Pelagodroma marina* (Latham, 1790)**

White-faced Storm-petrel

Halipeurus (*Synnautes*) *pelagicus* (Denny, 1842)

Order PELECANIFORMES

Family PHALACROCORACIDAE

Genus *Phalacrocorax* Brisson, 1760

***Phalacrocorax melanoleucos* (Vieillot, 1817)**

Little Pied Cormorant

Pectinopygus dispar (Piaget, 1880)

***Phalacrocorax varius* (Gmelin, 1789)**

Pied Cormorant

Eidmanniella pellucida (Rudow, 1869)

Pectinopygus varius Timmermann, 1964

***Phalacrocorax sulcirostris* (Brandt, 1837)**

Little Black Cormorant

Pectinopygus setosus (Piaget, 1880)

Family PELECANIDAE

Genus *Pelecanus* Linnaeus, 1758

***Pelecanus conspicillatus* Temminck, 1824**

Australian Pelican

Colpocephalum eucarenum Burmeister, 1838

Pectinopygus australis Thompson, 1948

Piagetiella africana (Bedford, 1931)

Order CICONIIFORMES

Family ARDEIDAE

Genus *Egretta* Forster, 1817

***Egretta novaehollandiae* (Latham, 1790)**

White-faced Heron

Ardeicola pilgrimi Tandan, 1972

Family THRESKIORNITHIDAE

Genus *Threskiornis* Gray, 1842*Threskiornis molucca* (Cuvier, 1829)

Australian White Ibis

Colpocephalum aethiopicae Price and Beer, 1965*Plegadiphilus threskiornis* Bedford, 1939

Order FALCONIFORMES

Family ACCIPITRIDAE

Genus *Elanus* Savigny, 1809*Elanus axillaris* (Latham, 1801)

Black-shouldered Kite

Degeeriella elani Tendeiro, 1955Genus *Circus* Lacépède, 1799*Circus approximans* Peale, 1848 Swamp Harrier*Degeeriella fusca* (Denny, 1842)Genus *Aquila* Brisson, 1760*Aquila audax* (Latham, 1801) Wedge-tailed Eagle*Craspedorrhynchus* sp.Genus *Hieraaetus* Kaup, 1844*Hieraaetus morphnoides* (Gould, 1841) Little Eagle*Degeeriella fulva* (Giebel, 1874)

Family FALCONIDAE

Genus *Falco* Linnaeus, 1758*Falco berigora* Vigors and Horsfield, 1827

Brown Falcon

Degeeriella rufa rufa (Burmeister, 1838)*Falco longipennis* Swainson, 1837

Australian Hobby

Degeeriella rufa rufa (Burmeister, 1838)*Falco cenchroides* Vigors and Horsfield, 1827

Nankeen Kestrel

Degeeriella rufa rufa (Burmeister, 1838)

Order GRUIFORMES

Family RALLIDAE

Genus *Gallirallus* Lafresnaye, 1841*Gallirallus philippensis australis* (von Pelzeln, 1873)

Buff-banded Rail

Rallicola ortyometrae philippensis Emerson, 1966Genus *Porphyrio* Brisson, 1760*Porphyrio porphyrio bellus* Gould, 1840

Purple Swamphen

Laemobothrion (Eulaemobothrion) sp. (nymphs only)*Pseudomenopon concretum* (Piaget, 1880)*Rallicola lugens* (Giebel, 1874)Genus *Gallinula* Brisson, 1760*Gallinula ventralis* Gould, 1837

Black-tailed Native-hen

Fulicoffula sp.*Pseudomenopon australis* Price and Emerson, 1986*Rallicola bournei* Price and Emerson, 1986Genus *Fulica* Linnaeus, 1758*Fulica atra australis* Gould, 1845

Australasian Coot

Fulicoffula lurida (Nitzsch, 1818)*Incidifrons fulicae* (Linnaeus, 1758)*Laemobothrion (Eulaemobothrion) atrum* (Nitzsch, 1818)*Pseudomenopon pilosum* (Scopoli, 1763)*Rallicola fulicae* (Denny, 1842)

Order TURNICIFORMES

Family TURNICIDAE

Genus *Turnix* Bonnatere, 1791*Turnix varia* (Latham, 1801) Painted Button-quail*Turnicola* sp.

Order CHARADRIIFORMES

Family SCOLOPACIDAE

Genus *Calidris* Merrem, 1804*Calidris tenuirostris* (Horsfield, 1821) Great Knot*Actornithophilus* sp. (nymphs only)*Lunaceps drosti* Timmermann, 1954*Saemundssonina (Saemundssonina) tringae sibiriae* Martens, 1974*Calidris ruficollis* (Pallas, 1776) Red-necked Stint*Actornithophilus* sp. (nymphs only)*Carduiceps zonarius* (Nitzsch (in Giebel), 1866)*Lunaceps* sp.*Saemundssonina (Saemundssonina) tringae tringae* (O. Fabricius, 1780)

Family RECURVIROSTRIDAE

Genus *Recurvirostra* Linnaeus, 1758*Recurvirostra novaehollandiae* Vieillot, 1816

Red-necked Avocet

Austromenopon micrandum (Nitzsch (in Giebel), 1866)

Cirroptirius recurvirostrae (Linnaeus, 1758)
Quadriceps decipiens (Denny, 1842)
Quadriceps signatus (Piaget, 1880)

Family CHARADRIIDAE

Genus *Pluvialis* Brisson, 1760

Pluvialis squatarola (Linnaeus, 1758) Grey Plover
Quadriceps charadrii hospes (Nitzsch (in Giebel), 1866)
Saemundssonina (*Saemundssonina*) *conica naumanni* (Giebel, 1874)

Genus *Charadrius* Linnaeus, 1758

Charadrius australis (Gould, 1841) Inland Dotterel
Austromenopon sp.
Quadriceps neoaustralis Emerson and Price, 1986

Genus *Elseyornis* Mathews, 1914

Elseyornis melanops (Vieillot, 1818) Black-fronted Dotterel
Quadriceps bicuspis dressleri Timmermann, 1971

Genus *Vanellus* Brisson, 1760

Vanellus tricolor (Vieillot, 1818) Banded Lapwing
Actornithophilus hoplopteri (Mjöberg, 1910)
Quadriceps australis Emerson and Price, 1986
Saemundssonina sp.

Vanellus miles novaehollandiae Stephens, 1819
 Masked Lapwing

Actornithophilus hoplopteri (Mjöberg, 1910)
Austromenopon aegialitidis (Durrant, 1906)
Quadriceps renschi Timmermann, 1954
Saemundssonina (*Saemundssonina*) *africana sycophanta* Timmermann, 1962

Family LARIDAE

Genus *Larus* Linnaeus, 1758

Larus novaehollandiae novaehollandiae Stephens, 1826 Silver Gull
Actornithophilus piceus lari (Packard, 1870)
Austromenopon transversum (Denny, 1842)
Quadriceps punctatus lingulatus (Waterston, 1914)
Saemundssonina (*Saemundssonina*) *lari* (O. Fabricius, 1780)

Genus *Sterna* Linnaeus, 1758

Sterna bergii Lichtenstein, 1823 Crested Tern
Actornithophilus piceus piceus (Denny, 1842)
Austromenopon atrofulvum (Piaget, 1880)

Quadriceps sellatus (Burmeister, 1838)
Saemundssonina (*Saemundssonina*) *laticaudata* (Rudow, 1869)

Sterna nereis (Gould, 1843) Fairy Tern
Quadriceps nycthemerus (Burmeister, 1838)
Saemundssonina (*Saemundssonina*) *melanocephalus* (Burmeister, 1838)

Sterna anaethetus Scopoli, 1786 Bridled Tern
Austromenopon atrofulvum (Piaget, 1880)
Quadriceps legatus Timmermann, 1952
Saemundssonina (*Saemundssonina*) *lockleyi* Clay, 1949
Saemundssonina (*Saemundssonina*) *meridiana* Timmermann, 1950

Genus *Anous* Stephens, 1826

Anous tenuirostris (Temminck, 1823) Lesser Noddy
Actornithophilus ceruleus (Timmermann, 1954)
Quadriceps hopkinsi hopkinsi Timmermann, 1952

Order COLUMBIFORMES

Family COLUMBIDAE

Genus *Phaps* Selby, 1835

Phaps chalcoptera (Latham, 1790) Common Bronzewing

Campanulotes flavus flavus (Rudow, 1869)
Coloceras grande Tendeiro, 1973
Columbicola angustus (Rudow, 1869)
Physconelloides australiensis Tendeiro, 1969
Physconelloides strangeri Tendeiro, 1980

Phaps elegans (Temminck, 1810)

Brush Bronzewing

Campanulotes flavus elegans (Tendeiro, 1978)
Coloceras sp.
Columbicola tasmaniensis Tendeiro, 1967
Physconelloides australiensis Tendeiro, 1969

Genus *Ocyphaps* Gray, 1842

Ocyphaps lophotes (Temminck and Laugier, 1822) Crested Pigeon

Campanulotes sp.
Coloceras sp.
Columbicola mckeani Tendeiro, 1973

Genus *Geophaps* Gray, 1842

Geophaps plumifera Gould, 1842 Spinifex Pigeon
Coloceras sp.
Columbicola sp.

Order PSITTACIFORMES

Family CACATUIDAE

Genus *Calyptorhynchus* Desmarest, 1826

- Calyptorhynchus banksii naso* (Gould, 1837)
 Red-tailed Black Cockatoo
Franciscoloa (*Franciscoloa*) *magnifici* Price, 1969
Neopsittaconirmus borgioli Conci, 1942
Psittoecus sp.

- Calyptorhynchus latirostris* Carnaby, 1948
 Short-billed Black Cockatoo
Franciscoloa (*Franciscoloa*) *funerei* Price and Beer, 1966
Kelerimenopon (*Lorimenopon*) sp. (females only)
Neopsittaconirmus borgioli Conci, 1942
Psittoecus sp.

Genus *Cacatua* Vieillot, 1817

- Cacatua roseicapilla* Vieillot, 1817 Galah
Franciscoloa (*Franciscoloa*) *roseicapillae* Price and Beer, 1966
Kelerimenopon (*Lorimenopon*) *galeritae* Price and Emerson, 1966
Neopsittaconirmus eos (Giebel, 1874)
Psittoecus eos (Rudow, 1869)

- Cacatua sanguinea* Gould, 1843 Little Corella
Franciscoloa (*Franciscoloa*) *roseicapillae* Price and Beer, 1966
Neopsittaconirmus eos (Giebel, 1874)
Psittoecus eos (Rudow, 1869)

Genus *Nymphicus* Wagler, 1832

- Nymphicus hollandicus* (Kerr, 1792) Cockatiel
Neopsittaconirmus sp.

Family PSITTACIDAE

Genus *Polytelis* Wagler, 1832

- Polytelis anthopeplus* (Lear, 1831) Regent Parrot
Echinophilopterus angustoclypeatus (Piaget, 1880)
Neopsittaconirmus circumfasciatus (Piaget, 1880)

Genus *Platycercus* Vigors, 1826

- Platycercus elegans* (Gmelin, 1788)
 Crimson Rosella
Heteromenopon (*Keamenopon*) *psittacum* (Le Souëf and Bullen, 1902)
Neopsittaconirmus circumfasciatus (Piaget, 1880)

Genus *Barnardius* Bonaparte, 1854

- Barnardius zonarius semitorquatus* (Quoy and Gaimard, 1830) Australian Ringneck
Forficuloecus palmai Guimarães, 1985

Heteromenopon (*Keamenopon*) *psittacum* (Le Souëf and Bullen, 1902)

Neopsittaconirmus circumfasciatus (Piaget, 1880)

Genus *Purpureicephalus* Bonaparte, 1854

- Purpureicephalus spurius* (Kuhl, 1820)
 Red-capped Parrot
Forficuloecus palmai Guimarães, 1985
Heteromenopon (*Keamenopon*) *kalamundae* Price, 1969
Neopsittaconirmus sp.

Genus *Psephotus* Gould, 1845

- Psephotus haematonotus* (Gould, 1838)
 Red-rumped Parrot
Forficuloecus forficula (Piaget, 1871)

Order CUCULIFORMES

Family CUCULIDAE

Genus *Cuculus* Linnaeus, 1758

- Cuculus pallidus* (Latham, 1801) Pallid Cuckoo
Cuculiphilus (*Cuculiphilus*) *fasciatus* (Scopoli, 1763)
Cuculoecus sp.

Genus *Cacomantis* Müller, 1843

- Cacomantis flabelliformis* Latham, 1801
 Fan-tailed Cuckoo
Cuculoecus laticlypeatus (Piaget, 1871)

Order STRIGIFORMES

Family STRIGIDAE

Genus *Ninox* Hodgson, 1837

- Ninox novaeseelandiae* (Gmelin, 1788)
 Southern Boobook
Kurodaia cryptostigmatia (Nitzsch, 1861)
Strigiphilus vapidus Clay, 1977

Family TYTONIDAE

Genus *Tyto* Billberg, 1828

- Tyto alba delicatula* (Gould, 1837) Barn Owl
Kurodaia subpachygaster (Piaget, 1880)
Strigiphilus aitkeni Clay, 1966

Order CAPRIMULGIFORMES

Family PODARGIDAE

Genus *Podargus* Vieillot, 1818

- Podargus strigoides* (Latham, 1801)
 Tawny Frogmouth
Podargoecus strigoides Emerson and Price, 1966

Family CAPRIMULGIDAE

Genus *Eurostopodus* Gould, 1838

Eurostopodus argus Hartert, 1892 Spotted Nightjar
Mulcticola sp.

Family AEGOTHELIDAE

Genus *Aegotheles* Vigors and Horsfield, 1826

Aegotheles cristatus (Shaw, 1790)
Australian Owlet-nightjar
Podargocercus tasmaniensis Price, 1976

Order CORACIIFORMES

Family HALCYONIDAE

Genus *Dacelo* Leach, 1815

Dacelo novaeguineae (Hermann, 1783)
Laughing Kookaburra
Alcedoecus delphax (Nitzsch (in Giebel), 1866)
Emersoniella bracteata (Nitzsch (in Giebel), 1866)

Genus *Todiramphus* Lesson, 1827

Todiramphus sanctus (Vigors and Horsfield, 1827)
Sacred Kingfisher
Alcedoecus alatoclypeatus (Piaget, 1885)

Family MEROPIDAE

Genus *Merops* Linnaeus, 1758

Merops ornatus Latham, 1801 Rainbow Bee-eater
Brueelia sp.
Meromenopon meropis Clay and Meinertzhagen, 1941
Meropoecus sp.

Order PASSERIFORMES

Family MALURIDAE

Genus *Malurus* Vieillot, 1816

Malurus splendens splendens (Quoy and Gaimard, 1830)
Splendid Fairy-wren
Myrsidea strangeri Clay, 1970

Family PARDALOTIDAE

Genus *Gerygone* Gould, 1841

Gerygone fusca (Gould, 1838) Western Gerygone
Ricinus sp.

Genus *Acanthiza* Vigors and Horsfield, 1827

Acanthiza chrysorrhoa (Quoy and Gaimard, 1830)
Yellow-rumped Thornbill

Philopterus sp.

Family MELIPHAGIDAE

Genus *Anthochaera* Vigors and Horsfield, 1827

Anthochaera carunculata (Shaw, 1790)
Red Wattlebird

Brueelia sp.

Menacanthus eurysternus (Burmeister, 1838)

Myrsidea sp.

Philopterus sp.

Genus *Manorina* Vieillot, 1818

Manorina flavigula (Gould, 1840)
Yellow-throated Miner

Brueelia sp.

Philopterus sp.

Genus *Lichenostomus* Cabanis, 1851

Lichenostomus ornatus (Gould, 1838)
Yellow-plumed Honeyeater

Brueelia sp.

Philopterus sp.

Family POMATOSTOMIDAE

Genus *Pomatostomus* Cabanis, 1851

Pomatostomus superciliosus (Vigors and Horsfield, 1827)
White-browed Babbler

Brueelia sp.

Family DICRURIDAE

Genus *Grallina* Vieillot, 1816

Grallina cyanoleuca (Latham, 1801) Magpie-lark
Brueelia sp.

Myrsidea sp.

Philopterus sp.

Genus *Rhipidura* Vigors and Horsfield, 1827

Rhipidura leucophrys (Latham, 1801)
Willie Wagtail

Myrsidea sp.

Family CAMPEPHAGIDAE

Genus *Coracina* Vieillot, 1816

Coracina novaehollandiae (Gmelin, 1789)
Black-faced Cuckoo-shrike

Brueelia sp.

Family ARTAMIDAE

Genus *Gymnorhina* Gray, 1840

- Gymnorhina tibicen dorsalis* (Campbell, 1895)
Australian Magpie
Brueelia semiannulata (Piaget, 1883)
Myrsidea sp.
Philopterus sp.

Gymnorhina tibicen hypoleuca (Gould, 1837)
White-backed Magpie

Brueelia semiannulata (Piaget, 1883)

Genus *Strepera* Lesson, 1830

- Strepera versicolor* (Latham, 1801)
Grey Currawong

Brueelia sp.
Myrsidea sp.
Philopterus sp.

Family CORVIDAE

Genus *Corvus* Linnaeus, 1758

- Corvus coronoides* Vigors and Horsfield, 1827
Australian Raven

Brueelia sp.
Colpocephalum fragili Denny, 1842
Myrsidea australiensis australiensis Klockenhoff, 1971
Philopterus sp.

Corvus bennetti North, 1901 Little Crow

Brueelia sp.
Colpocephalum fragili Denny, 1842
Menacanthus gonophaeus (Burmeister, 1838)
Myrsidea australiensis bennetti Klockenhoff, 1971
Philopterus sp.

Family CORCORACIDAE

Genus *Corcorax* Lesson, 1830

- Corcorax melanorhamphos* (Vieillot, 1817)
White-winged Chough

Brueelia sp.
Menacanthus sp.
Myrsidea sp.

Family MOTACILLIDAE

Genus *Anthus* Bechstein, 1807

- Anthus novaeseelandiae* (Gmelin, 1789)
Richard's Pipit

Menacanthus pusillus (Nitzsch, 1866)
Penenirmus sp.
Philopterus sp.

Family HIRUNDINIDAE

Genus *Hirundo* Linnaeus, 1758

- Hirundo neoxena* Gould, 1843 Welcome Swallow
Brueelia tenuis (Burmeister, 1838)
Myrsidea rustica (Giebel, 1874)
Philopterus excisus microsomaticus Tandan, 1955

Family SYLVIIDAE

Genus *Cincloramphus* Gould, 1838

- Cincloramphus cruralis* (Vigors and Horsfield, 1827)
Brown Songlark
Brueelia sp.

Family ZOSTEROPIDAE

Genus *Zosterops* Vigors and Horsfield, 1827

- Zosterops lateralis gouldi* (Latham, 1801) Silvereye
Menacanthus eurysternus (Burmeister, 1838)

DISCUSSION

While discussing the imbalance between the recorded louse fauna of New Zealand and that of Australia, Murray *et al.* (1990: 1365) stated that "the apparent cleanliness of Aust. birds simply indicates an appalling lack of data". The relative large number of louse records given here at the generic level is yet another indication of the need to further collect and study the Australian bird lice. Although some bird groups such as the Procellariiformes and the Pelecaniformes have been more extensively searched for lice, other large orders (e.g. Passeriformes and Columbiformes) have barely been investigated. The large number of Australian birds missing in the list of 'Host-lice associations' given by Palma and Barker (1996: 338) ensures that anyone who sets about collecting lice will no doubt add to the present knowledge.

This paper records 141 species and subspecies of bird lice and a further 59 records which are listed at the generic level only, but the latter do not necessarily represent different species. Among them, several species and subspecies were described based on the material collected by the senior author. They are: *Austrogoniodes metoecus*, *Franciscoloa magnifici*, *Heteromenopon kalamundae*, *Myrsidea australiensis bennetti*, *Myrsidea strangeri*, *Physconelloides strangeri*, *Quadriceps bicuspis dressleri*, *Saemundssonina minitrans* and *S. tringae sibiriae*. Also, several records represent new host-lice associations.

Two of the lice mentioned above are good examples of secondary infestations or host-switching (see Palma and Barker, 1996: 82).

Austrogoniodes metoecus is a regular parasite of the Musk Duck, but all the remaining species of the genus *Austrogoniodes* are parasitic on penguins. Similarly, *Saemundssonina minitrans* is the only species of the genus *Saemundssonina* known to live on a duck, the Pink-eared Duck, while most of the many other *Saemundssonina* species are parasitic on members of the avian orders Charadriiformes and Procellariiformes.

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