

# Handbook of AUSTRALIAN, NEW ZEALAND & ANTARCTIC BIRDS

Volume 7 Boatbill to Starlings

Part B Dunnock to Starlings

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## APPENDIX I

## ECTOPARASITES OF AUSTRALIAN, NEW ZEALAND AND ANTARCTIC BIRDS

M.D. Murray<sup>A</sup>, R.L. Palma<sup>B</sup>, R.L.C. Pilgrim<sup>C</sup> and M.D. Shaw<sup>D</sup>

## INTRODUCTION

This is the final unit of the checklist covering passerines. The format is the same as previously. Again, many lice have only been identified to genus, and some mites only to the nearest genus (\*). Often only immature ticks infest passerines; such infestations are shown as larval (L) or nymphal (N).

Table 1 lists the genera of lice of the families of the passerines, covering the checklists of volumes 5–7 of HANZAB.

The birds in this checklist pose problems where they have extensive geographical distributions which influence the species of fleas, ticks and mites that may infest them.

Several species of birds have a close association with humans who become bitten by mites when fledglings leave nests in buildings. One common example of this is the problem caused by *Ornithonyssus bursa* when chicks of Common Starlings *Sturnus vulgaris* or Common Mynas *Acridotheres tristis* fledge. Other mites cause disease of both aviary and wild birds. *Sternostoma tracheacolum* causes respiratory problems in aviary Gouldian Finches *Erythrura gouldiae*; this disease also causes additional stress in already depleted wild populations of Gouldian Finches. *Knemidokoptes intermedius* infests the lower legs and feet of wild Pied Currawongs *Strepera graculina* and Forest Ravens *Corvus tasmanicus*.

Several of the passerines have been introduced to Aust. or NZ from Europe or elsewhere. Some lice species are absent because they were not on the birds originally introduced, a phenomenon referred to as 'missing the boat'. Thus, fewer species of lice are found on Rook *Corvus frugilegus*, Dunnock *Prunella modularis*, House Sparrow *Passer domesticus*, Common Blackbird *Turdus merula*, Song Thrush *Turdus philomelos* and Common Starling in NZ than on these birds in Europe.

There is an alarming decrease in the numbers of native passerines as land clearances continue, particularly in Aust.,

and the subsequent increasing predation by introduced pests. The future welfare of bird species is threatened, and their extinction means the extinction of some of their ectoparasites, as has been emphasized throughout this series. There is an urgent need to search birds for their ectoparasites before it is too late.

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## CHECKLIST OF ECTOPARASITES

## Family DICRURIDAE

*Monarcha melanopsis*LICE: *Brueelia* sp.MITES: *Ptilonyssus terpsiphonei* Fain, 1956*Monarcha trivirgatus*MITES: *Leptotrombidium nissani* (Dumbleton, 1947)*Ptilonyssus monarchae* Domrow, 1969*Ptilonyssus terpsiphonei* Fain, 1956*Ruandanyssus terpsiphonei* Fain, 1957*Sternostoma cuculorum* Fain, 1956*Monarcha leucotis*MITES: *Ptilonyssus terpsiphonei* Fain, 1956*Arses telescopthalmus*MITES: *Leptotrombidium nissani* (Dumbleton, 1947)*Arses kaupi*MITES: *Ptilonyssus terpsiphonei* Fain, 1956*Sternostoma cuculorum* Fain, 1956*Myiagra rubecula*MITES: *Leptotrombidium nissani* (Dumbleton, 1947)*Ptilonyssus terpsiphonei* Fain, 1956*Ruandanyssus terpsiphonei* Fain, 1957*Sternostoma cuculorum* Fain, 1956*Myiagra alecto*MITES: *Ptilonyssus terpsiphonei* Fain, 1956*Myiagra inquieta*MITES: *Ptilonyssus terpsiphonei* Fain, 1956*Grallina cyanoleuca*LICE: *Myrsidea* sp.*Brueelia* sp.*Philoapterus* sp.MITES: *Megninia acutipis* (Bonnet, 1924)*Neotialges grallinae* Janssen Duijghuijsen, Lukoschus & Fain, 1979*Ornithocheyletia lichmerae* Smiley, 1984*Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)*Ptilonyssus grallinae* Domrow, 1964*Rhipidura rufifrons*MITES: *Ptilonyssus setosae* Domrow, 1969*Rhipidura fuliginosa*LICE: *Menacanthus rhipidurae* Palma & Price, 2005*Ricinus mugimaki* (Uchida, 1915)*Philoapterus* sp.

LOUSE-FLIES: *Ornithoica stipituri stipituri* (Schiner, 1868)

*Ornithomya areolata* Maa, 1986

*Ornithomya nigricornis* Erichson, 1842

MITES: *Ptilonyssus rhipidurae* Domrow, 1966

*Anhemialges* sp.\*

*Hemialges* sp.

*Ingrassiella* sp.

*Pteronyssoides* sp.

*Trouessartia* sp.

#### *Rhipidura rufiventris*

MITES: *Ptilonyssus setosae* Domrow, 1969

#### *Rhipidura leucophrys*

LICE: *Myrsidea* sp.

MITES: *Ptilonyssus macclurei* Fain, 1963

*Sternostoma cuculorum* Fain, 1956

#### *Dicrurus bracteatus*

MITES: *Ptilonyssus dicruri* Fain, 1956

### Family CAMPEPHAGIDAE

#### *Coracina novaehollandiae*

LICE: *Myrsidea* sp.

*Brueelia* sp.

*Philopterus goshikiadori* (Uchida, 1948)

MITES: *Leptotrombidium nissani* (Dumbleton, 1947)

*Odontacarus australiensis* (Hirst, 1925)

*Ruandanyssus terpsiphonei* Fain, 1957

#### *Coracina papuensis*

MITES: *Leptotrombidium nissani* (Dumbleton, 1947)

*Ruandanyssus terpsiphonei* Fain, 1957

#### *Lalage sueurii*

MITES: *Boydaiia crassipes* (Berlese & Trouessart, 1889)

*Ptilonyssus cractici* Domrow, 1964

*Ruandanyssus terpsiphonei* Fain, 1957

### Family ORIOLIDAE

#### *Oriolus flavocinctus*

MITES: *Leptotrombidium nissani* (Dumbleton, 1947)

*Leptotrombidium robustum* (Gunther, 1941)

*Ptilonyssus trouessarti* (Hirst, 1921)

#### *Oriolus sagittatus*

MITES: *Neoschoengastia posekanyi* Wharton & Hardcastle, 1946

*Ptilonyssus trouessarti* (Hirst, 1921)

#### *Sphecotheres viridis*

LICE: *Columbicola paradoxus* Tendeiro, 1965

MITES: *Ptilonyssus sphecotheris* Domrow, 1964

### Family ARTAMIDAE

#### *Artamus personatus*

MITES: *Ruandanyssus terpsiphonei* Fain, 1957

#### *Artamus superciliosus*

MITES: *Artamacarus diacanthurus* Gaud & Atyeo, 1974

#### *Artamus cinereus*

MITES: *Ruandanyssus artami* Domrow, 1969

#### *Artamus cyanopterus*

LICE: *Menacanthus nelsoni* Price, 1976

MITES: *Artamacarus diacanthurus* Gaud & Atyeo, 1974

*Neochelytiella artami* Domrow, 1966

*Ornithonyssus sylvianum* (Canestrini & Fanzago, 1877)

#### *Artamus minor*

MITES: *Artamacarus diacanthurus* Gaud & Atyeo, 1974

*Neoschoengastia americana* (Hirst, 1921)

*Ruandanyssus artami* Domrow, 1969

#### *Cracticus quoyi*

MITES: *Leptotrombidium nissani* (Dumbleton, 1947)

*Ptilonyssus cractici* Domrow, 1964

*Sternostoma thienpoti* Fain, 1956

#### *Cracticus torquatus*

MITES: *Neoschoengastia posekanyi* Wharton & Hardcastle, 1946

*Ptilonyssus cractici* Domrow, 1964

TICKS: *Ixodes* sp. (L)

#### *Cracticus mentalis*

MITES: *Ptilonyssus cractici* Domrow, 1964

#### *Cracticus nigrogularis*

MITES: *Neoschoengastia posekanyi* Wharton & Hardcastle, 1946

*Ptilonyssus cractici* Domrow, 1964

*Sternostoma thienpoti* Fain, 1956

TICKS: *Ixodes holocyclus* Neumann, 1899

#### *Strepera graculina*

LICE: *Myrsidea vincula* (Le Souéf & Bullen, 1902)

MITES: *Knemidokoptes intermedius* Fain & Macfarlane, 1967

*Ptilonyssus cractici* Domrow, 1964

#### *Strepera fuliginosa*

LICE: *Myrsidea* sp.

*Brueelia* sp.

*Australophilopterus curvicornis* Mey, 2004

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

TICKS: *Ixodes* sp. (*auritulus* group)

*Ixodes* sp. (L)

#### *Strepera versicolor*

LICE: *Menacanthus dennisi* Price & Emerson, 1988

*Myrsidea* sp.

*Australophilopterus strepericus* Mey, 2004

*Brueelia* sp.

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

#### *Gymnorhina tibicen*

LICE: *Picicola bimaculatus* (Piaget, 1885)

MITES: *Ornithonyssus bursa* (Berlese, 1888)

*Ptilonyssus cractici* Domrow, 1964

*Pterodectes* sp.

*Sternostoma thienpoti* Fain, 1956

*Syringophilopsis* sp. 4 Johnston & Kethley, 1973

#### *Gymnorhina tibicen tibicen*, *Gymnorhina tibicen dorsalis*

LICE: *Myrsidea* sp.

*Brueelia semiannulata* (Piaget, 1883)

*Philopterus* sp.

FLEAS: *Echidnophaga gallinacea* (Westwood, 1875)

TICKS: *Ixodes holocyclus* Neumann, 1899

*Haemaphysalis longicornis* Neumann, 1901

#### *Gymnorhina tibicen hypoleuca*

LICE: *Myrsidea* sp.

*Brueelia semiannulata* (Piaget, 1883)

LOUSE-FLIES: *Ornithoica stipituri stipituri* (Schiner, 1868)

*Ornithomya nigricornis* Erichson, 1842

### Family CORVIDAE

#### *Corvus frugilegus*

LICE: *Colpocephalum fregili* Denny, 1842

MITES: *Analges* sp.

*Gabucinia* sp.

#### *Corvus coronoides*

LICE: *Colpocephalum fregili* Denny, 1842

*Menacanthus gonophaeus* (Burmeister, 1838)

*Myrsidea australiensis australiensis* Klockenhoff, 1971

*Brueelia* sp.

*Philopterus craigi* Price & Hellenthal, 1998

TICKS: *Ixodes holocyclus* Neumann, 1899

#### *Corvus tasmanicus*

LICE: *Colpocephalum fregili* Denny, 1842

*Menacanthus gonophaeus* (Burmeister, 1838)

*Myrsidea australiensis australiensis* Klockenhoff, 1971

*Philopterus dalgleishi* Price & Hellenthal, 1998

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

MITES: *Knemidokoptes intermedius* Fain & Macfarlane, 1967

#### *Corvus mellori*

LICE: *Colpocephalum fregili* Denny, 1842

*Menacanthus gonophaeus* (Burmeister, 1838)

*Myrsidea australiensis mellori* Klockenhoff, 1973

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

#### *Corvus bennetti*

LICE: *Colpocephalum fregili* Denny, 1842

*Menacanthus gonophaeus* (Burmeister, 1838)

*Myrsidea australiensis bennetti* Klockenhoff, 1971

*Brueelia* sp.

*Philopterus craigi* Price & Hellenthal, 1998

#### *Corvus orru*

LICE: *Myrsidea ceciliae* Klockenhoff, 1972

*Myrsidea schizotergum arafura* Klockenhoff, 1972

*Myrsidea schizotergum schizotergum* Klockenhoff, 1972

### Family CORCORACIDAE

#### *Corcorax melanorhamphos*

LICE: *Menacanthus* sp.

*Myrsidea* sp.

- Brueelia* sp.  
*Corcorides inopinatus* Mey, 2004  
*Paraphilopterus styloideus* Mey, 2004  
MITES: *Ptilonyssus corcoracis* Domrow, 1969  
**Struthidea cinerea**  
LICE: *Myrsidea cinerea* (Thompson, 1939)  
*Myrsidea struthidea* Thompson, 1939  
*Corcorides biocellatus* Mey, 2004  
MITES: *Eutrombicula sarcina* (Womersley, 1944)  
*Leptotrombidium nissani* (Dumbleton, 1947)  
*Neoschoengastia posekanyi* Wharton & Hardcastle, 1946  
*Neoschoengastia americana* (Hirst, 1921)  
*Odontacarus adelaideae* (Womersley, 1944)  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ptilonyssus struthideae* Domrow, 1969  
*Ruandanyssus terpsiphonei* Fain, 1957
- Family PTILONORHYNCHIDAE**  
**Ailuroedus crassirostris**  
MITES: *Neoschoengastia posekanyi* Wharton & Hardcastle, 1946  
*Ptilonyssus ailuroedi* Domrow, 1964  
**Sericulus chrysocephalus**  
LICE: *Brueelia hectica* (Nitzsch [in Giebel], 1866)  
MITES: *Proterothrix paradisiaca* (Trouessart, 1885)  
**Ptilonorhynchus violaceus**  
LICE: *Myrsidea ptilonorhynchi* (Ponton, 1871)  
*Philopterus grandiceps* (Giebel, 1874)  
*Picicola nitzschii* (Ponton, 1871)  
**Chlamydera nuchalis**  
MITES: *Ptilonyssus sphecotheris* Domrow, 1964
- Family TURNAGRIDAE**  
**Turnagra capensis**  
LICE: *Brueelia* sp.
- Family CALLAEIDAE**  
**Callaeas cinerea**  
**Callaeas cinerea wilsoni**, *Callaeas cinerea cinerea*  
LICE: *Brueelia* sp.  
*Philopterus novaeseelandiae* Palma & Price, 2000  
MITES: *Mesalges diaphanoxus* Bonnet, 1924  
**Philesturnus carunculatus**  
LOUSE-FLIES: *Ornithomya variegata* Bigot, 1885  
**Philesturnus carunculatus carunculatus**  
LICE: *Brueelia* sp.  
**Philesturnus carunculatus rufusater**  
LICE: *Brueelia* sp.  
MITES: *Ornithonyssus bursa* (Berlese, 1888)  
**Heteralocha acutirostris**  
LICE: *Rallicola (Huicicola) extinctus* (Mey, 1990)
- Family ALAUDIDAE**  
**Mirafra javanica**  
MITES: *Ptilonyssus capitatus* (Strandtmann, 1956)  
**Alauda arvensis**  
LICE: *Menacanthus alaudae* (Schrank, 1776)  
*Brueelia* sp.  
*Philopterus* sp.  
MITES: *Analges* sp.  
*Proctophyllodes (?anthi)* Vitzhum, 1922  
*Pterodectes* sp.\*  
TICKS: *Haemaphysalis longicornis* Neumann, 1901
- Family PRUNELLIDAE**  
**Prunella modularis**  
LICE: *Philopterus* sp.  
FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)  
*Parapsyllus struthophilus* Smit, 1979  
LOUSE-FLIES: *Ornithomya variegata* Bigot, 1885  
MITES: *Analges* sp.  
*Ornithonyssus bursa* (Berlese, 1888)  
*Proctophyllodes* sp.
- Family PASSERIDAE**  
**Passer domesticus**  
LICE: *Menacanthus eurysternus* (Burmeister, 1838)  
*Brueelia cyclothorax* (Burmeister, 1838)
- FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)  
LOUSE-FLIES: *Ornithomya stipituri stipituri* (Schiner, 1868)  
*Ornithomya areolata* Maa, 1986  
*Ornithomya nigricornis* Erichson, 1842  
*Ornithomya variegata* Bigot, 1885  
MITES: *Analges* sp.  
*Androlaelaps casalis* (Berlese, 1887)  
*Dermanyssus gallinae* (De Geer, 1778)  
*Mesalges* sp.  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ornithonyssus sylvianum* (Canestrini & Fanzago, 1877)  
*Proctophyllodes truncatus* Robin, 1877  
*Ptilonyssus hirsti* (de Castro & Pereira, 1947)  
TICKS: *Haemaphysalis longicornis* Neumann, 1901
- Family ESTRILDIDAE**  
**Taeniopygia guttata**  
MITES: *Neocnemidocoptes australiensis* Fain & Lukoschus, 1979  
*Pellonyssus reedi* (Zumpt & Patterson, 1952)  
*Ptilonyssus astridae* Fain, 1956  
*?Ptilonyssus conopophylae* Fain & Lukoschus, 1979  
*Ptilonyssus motacillae* Fain, 1956  
*Sternostoma* sp.  
**Taeniopygia bichenovii**  
MITES: *Pellonyssus reedi* (Zumpt & Patterson, 1952)  
*Ptilonyssus emberizae* Fain, 1956  
**Poephila acuticauda**  
MITES: *Bakericheyla chanayi* (Berlese & Trouessart, 1889)  
*Kytonyssus andrei* Fain, 1960  
*Pellonyssus reedi* (Zumpt & Patterson, 1952)  
*Ptilonyssus astridae* Fain, 1956  
*Ptilonyssus neochmiae* Domrow, 1969  
*Sternostoma paddae* Fain, 1958  
**Poephila personata**  
MITES: *Kytodites amandavae* Fain & Bafort, 1964  
*Ptilonyssus astridae* Fain, 1956  
*Sternostoma paddae* Fain, 1958  
*Sternostoma tracheacolum* Lawrence, 1948  
**Neochmia phaeton**  
MITES: *Ptilonyssus neochmiae* Domrow, 1969  
**Neochmia temporalis**  
MITES: *Pellonyssus reedi* (Zumpt & Patterson, 1952)  
**Stagonopleura bella**  
LICE: *Myrsidea* sp.  
*Brueelia* sp.  
**Lonchura punctulata**  
MITES: *Ptilonyssus motacillae* Fain, 1956  
**Lonchura castaneothorax**  
MITES: *Ornithocheyletia lonchurae* Smiley, 1984  
*Pellonyssus reedi* (Zumpt & Patterson, 1952)  
*Ptilonyssus astridae* Fain, 1956  
**Heteromunia pectoralis**  
MITES: *Ptilonyssus emberizae* Fain, 1956  
*Sternostoma tracheacolum* Lawrence, 1948  
**Erythrura gouldiae**  
LICE: *Machaerilaemus latifrons* Harrison, 1915  
MITES: *Androlaelaps casalis* (Berlese, 1887)  
*Bakericheyla chanayi* (Berlese & Trouessart, 1889)  
*Eulaelaps oudemansi* Turk, 1945  
*Ptilonyssus neochmiae* Domrow, 1992 p.1605  
*Sternostoma paddae* Fain, 1958  
*Sternostoma tracheacolum* Lawrence, 1948
- Family FRINGILLIDAE**  
**Fringilla coelebs**  
FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)  
LOUSE-FLIES: *Ornithomya variegata* Bigot, 1885  
MITES: *Analges* sp.  
*Monojoubertia microphylla* (Robin, 1877)  
*Pteronyssoides* sp.\*  
**Carduelis chloris chloris**  
LICE: *Myrsidea serini* (Séguy, 1944)  
*Brueelia* sp.  
FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)

\* Closest to genus

- MITES: *Analges* sp.  
*Knemidokoptes jamaicensis* (Turk, 1950)  
*Megrinia* sp.  
*Mesalges* sp.  
*Proctophyllodes* sp.
- Carduelis carduelis carduelis**  
LICE: *Myrsidea serini* (Séguy, 1944)  
*Brueelia* sp.
- LOUSE-FLIES: *Ornithomya variegata* Bigot, 1885
- MITES: *Knemidokoptes jamaicensis* (Turk, 1950)
- Carduelis flammea**  
MITES: *Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)
- Family MOTACILLIDAE**
- Anthus novaeseelandiae**  
LICE: *Menacanthus pusillus* (Nitzsch, 1866)  
*Penenirmus* sp.  
*Philopterus* sp.
- MITES: *Ptilonyssus motacillae* Fain, 1956
- Anthus novaeseelandiae novaeseelandiae, Anthus novaeseelandiae steindachneri**  
LICE: *Menacanthus eurysternus* (Burmeister, 1838)  
*Myrsidea* sp.  
*Philopterus* sp.
- MITES: *Proctophyllodes (?anthi)* Vitzhum, 1922
- Family EMBERIZIDAE**
- Emberiza citrinella**  
LICE: *Myrsidea serini* (Séguy, 1944)  
*Brueelia delicata* (Nitzsch, 1866)
- LOUSE-FLIES: *Ornithomya avicularia* (Linnaeus, 1758)  
*Ornithomya variegata* Bigot, 1885
- MITES: *Analges* sp.  
*Proctophyllodes* sp.  
*Ptilonyssus emberizae* Fain, 1956
- Family NECTARINIIDAE**
- Nectarinia jugularis**  
MITES: *Ptilonyssus cinnyris* Zumpt & Till, 1955
- Family DICAIEIDAE**
- Dicaeum hirundinaceum**  
MITES: *Monojoubertia parviscurigera* Atyeo, 1971  
*Monojoubertia securigera* Atyeo, 1971  
*Ptilonyssus dicaei* Domrow, 1966
- Family HIRUNDINIDAE**
- Cheramoeca leucosternus**  
FLEAS: *Echidnophaga gallinacea* (Westwood, 1875)
- MITES: *Mesolaelaps australiensis* (Hirst, 1926)
- Hirundo rustica**  
LICE: *Myrsidea rustica* (Giebel, 1874)  
*Philopterus excisus microsomaticus* Tandan, 1955
- Hirundo neoxena**  
LICE: *Myrsidea rustica* (Giebel, 1874)  
*Brueelia tenuis* (Burmeister, 1838)  
*Philopterus excisus microsomaticus* Tandan, 1955
- LOUSE-FLIES: *Ornithomya greeni* Maa, 1986  
*Ornithomya nigricornis* Erichson, 1842
- MITES: *Boyaia hirundoae* Fain, 1956  
*Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)  
*Pteronyssus* sp. [NZ record]  
*Ptilonyssus angrensis* (de Castro, 1948)  
*Ptilonyssus echinatus* Berlese & Trouessart, 1889
- Hirundo nigricans**  
LICE: *Machaerilaemus malleus* (Burmeister, 1838)
- MITES: *Ptilonyssus echinatus* Berlese & Trouessart, 1889
- TICKS: *Ixodes* sp. (N)
- Hirundo ariel**  
MITES: *Boyaia hirundoae* Fain, 1956  
*Cheletonella vespertilionis* Womersley, 1941  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)  
*Ptilonyssus echinatus* Berlese & Trouessart, 1889
- TICKS: *Argas lagenoplastis* Froggatt, 1906
- Family SYLVIIDAE**
- Acrocephalus australis**  
MITES: *Ptilonyssus acrocephali* Fain, 1964
- Megalurus gramineus**  
MITES: *Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)
- Bowdleria punctata**  
LICE: *Penenirmus* sp.
- FLEAS: *Notiopsylla peregrinus* Smit, 1979  
*Pagipsylla galliralli* (Smit, 1965)  
*Parapsyllus lynnae lynnae* Smit, 1965
- Cincloramphus mathewsi**  
MITES: *Ptilonyssus bradypteri* (Fain, 1962)
- Cincloramphus cruralis**  
LICE: *Brueelia* sp.
- Family ZOSTEROPIDAE**
- Zosterops lateralis**  
LICE: *Menacanthus eurysternus* (Burmeister, 1838)
- FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)  
*Pagipsylla galliralli* (Smit, 1965)
- LOUSE-FLIES: *Ornithomya areolata* Maa, 1986  
*Ornithomya nigricornis* Erichson, 1842  
*Ornithomya variegata* Bigot, 1885
- MITES: *Boyaia zosteropis* Fain, 1963  
*Calcealges (?yunkeri)* Gaud, 1962  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ptilonyssus ruandae* Fain, 1956  
*Sternostoma cuculorum* Fain, 1956  
*Trouessartia megadisca* Gaud, 1962  
*Trouessartia* sp.
- Family MUSCICAPIDAE**
- Zoothera lunulata**  
LICE: *Myrsidea* sp.  
*Brueelia daumae* (Clay, 1936)  
*Philopterus* sp.\*\*
- FLEAS: *Hoogstraalia vandiemeni* Smit, 1958
- MITES: *Sternostoma durenii* Fain, 1956  
*Sternostoma technaui* Vitzhum, 1935
- Turdus merula merula**  
LICE: *Menacanthus eurysternus* (Burmeister, 1838)  
*Myrsidea thoracica* (Giebel, 1874)  
*Brueelia merulensis* (Denny, 1842)  
*Brueelia amsel* (Eichler, 1951)  
*Philopterus turdi* (Denny, 1842)
- FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)  
*Pagipsylla galliralli* (Smit, 1965)  
*Parapsyllus struthophilus* Smit 1979
- LOUSE-FLIES: *Ornithoica stipituri stipituri* (Schiner, 1868)  
*Ornithomya nigricornis* Erichson, 1842
- MITES: *Analges* sp.  
*Androlaelaps casalis* (Berlese, 1887)  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)\*\*\*  
*Proctophyllodes* sp.  
*Ptilonyssus euroturdi* Fain & Hyland, 1963
- Turdus philomelos**  
LICE: *Menacanthus eurysternus* (Burmeister, 1838)  
*Brueelia turdinulae* Ansari, 1956  
*Philopterus turdi* (Denny, 1842)
- FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)
- LOUSE-FLIES: *Ornithomya variegata* Bigot, 1885
- MITES: *Analges* sp.  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ptilonyssus euroturdi* Fain & Hyland, 1963
- Family STURNIDAE**
- Aplonis metallica**  
MITES: *Ptilonyssus sturnopastoris* Fain, 1963

\*\* The host species was reported as *Zoothera lunulata* in 1969 and later *Z. dauma* in 1992. They were collected from Wilsons Peak, NSW.

\*\*\* The original report of an intranasal habitat was withdrawn (Hogsette *et al.* 1991). This mite usually visits the host in the nest to obtain a blood meal.

*Sturnus vulgaris*

LICE: *Menacanthus eurysternus* (Burmeister, 1838)  
*Brueelia nebulosa* (Burmeister, 1838)  
*Sturnidoecus sturni* (Schrank, 1776)

FLEAS: *Ceratophyllus gallinae* (Schrank, 1803)

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

MITES: *Analgopsis passerinus* (Linnaeus, 1758)  
*Boyaia sturni* (Boyd, 1948)  
*Dermanyssus gallinae* (De Geer, 1778)  
*Ornithonyssus bursa* (Berlese, 1888)  
*Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)  
*Proctophyllodes* sp.

*Pteronyssoides truncatus* (Trouessart, 1885)*Trouessartia rosteri* (Berlese, 1883)TICKS: *Ixodes* sp. (N)ACRIDOTHERES: *tristis*LICE: *Menacanthus eurysternus* (Burmeister, 1838)*Sturnidoecus* sp.MITES: *Analgas* sp.*Analgopsis* (?*passerinus*) (Linnaeus, 1758)*Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877)*Proctophyllodes* sp.*Pteronyssoides* (?*truncatus*) (Trouessart, 1885)*Trouessartia* (?*rosteri*) (Berlese, 1883)

Table 1. Genera of lice associated with families of birds.

## SUB-ORDERS AND GENERA OF LICE

	Amblycera	Ischnocera
<b>Passeriformes</b>		
Acanthisittidae	<i>Menacanthus</i>	
Pittidae		<i>Picicola</i>
Ménuridae	<i>Menacanthus</i>	<i>Brueelia</i>
Maluridae	<i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i>
Meliphagidae	<i>Menacanthus</i> , <i>Myrsidea</i> , <i>Ricinus</i>	<i>Brueelia</i> , <i>Philopterus</i>
Pardalotidae	<i>Menacanthus</i> , <i>Myrsidea</i> , <i>Ricinus</i>	<i>Philopterus</i>
Petroicidae	<i>Menacanthus</i> , <i>Ricinus</i>	<i>Brueelia</i> , <i>Philopterus</i>
Pomatostomidae		<i>Brueelia</i>
Cinclosomatidae		<i>Brueelia</i> , <i>Philopterus</i>
Pachycephalidae	<i>Menacanthus</i> , <i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i>
Dicruridae	<i>Menacanthus</i> , <i>Myrsidea</i> , <i>Ricinus</i>	<i>Brueelia</i> , <i>Philopterus</i>
Campephagidae	<i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i>
Oriolidae		<i>Columbicola</i>
Artamidae	<i>Menacanthus</i> , <i>Myrsidea</i>	<i>Australophilopterus</i> , <i>Brueelia</i> , <i>Picicola</i>
Paradisaeidae	<i>Myrsidea</i>	
Corvidae	<i>Colpocephalum</i> , <i>Menacanthus</i> , <i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i>
Corcoracidae	<i>Menacanthus</i> , <i>Myrsidea</i>	<i>Brueelia</i> , <i>Corcorides</i> , <i>Paraphilopterus</i>
Ptilonorhynchidae	<i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i> , <i>Picicola</i>
Turnagridae		<i>Brueelia</i>
Callaeidae		<i>Brueelia</i> , <i>Philopterus</i> , <i>Rallicola</i>
Alaudidae	<i>Menacanthus</i>	<i>Brueelia</i> , <i>Philopterus</i>
Prunellidae		<i>Philopterus</i>
Passeridae	<i>Menacanthus</i>	<i>Brueelia</i>
Estrildidae	<i>Machaerilaemus</i> , <i>Myrsidea</i>	<i>Brueelia</i>
Fringillidae	<i>Myrsidea</i>	<i>Brueelia</i>
Motacillidae	<i>Menacanthus</i> , <i>Myrsidea</i>	<i>Penenirmus</i> , <i>Philopterus</i>
Emberizidae	<i>Myrsidea</i>	<i>Brueelia</i>
Hirundinidae	<i>Machaerilaemus</i> , <i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i>
Sylviidae		<i>Brueelia</i> , <i>Penenirmus</i>
Zosteropidae	<i>Menacanthus</i>	
Muscicapidae	<i>Menacanthus</i> , <i>Myrsidea</i>	<i>Brueelia</i> , <i>Philopterus</i>
Sturnidae	<i>Menacanthus</i>	<i>Brueelia</i> , <i>Sturnidoecus</i>

## ADDENDUM: APPENDIX II – Volume 3

## ECTOPARASITES OF AUSTRALIAN, NEW ZEALAND AND ANTARCTIC BIRDS

M.D. Murray<sup>A</sup>, R.L. Palma<sup>B</sup> and R.L.C. Pilgrim<sup>C</sup>

## INTRODUCTION

This checklist covers the ectoparasites of birds described in Volume 3 of HANZAB. It was not published in Volume 3 owing to lack of space. For completeness, we have included new ectoparasite records and other nomenclatorial novelties published since the publication of Volume 3.

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## CHECKLIST OF ECTOPARASITES

## Family SCOLOPACIDAE

*Coenocorypha pusilla*

- LICE: *Quadriceps coenocoryphae* Timmermann, 1955  
FLEAS: *Parapsyllus longicornis* (Enderlein, 1901)  
*Parapsyllus lynnæ mariae* Smit, 1979

*Coenocorypha aucklandica huegeli*

- LICE: *Quadriceps coenocoryphae* Timmermann, 1955  
FLEAS: *Parapsyllus lynnæ lynnæ* Smit, 1965

*Coenocorypha aucklandica meinertzhagenae*

- LICE: *Austromenopon* sp.  
FLEAS: *Pagipsylla galltralli* (Smit, 1965)  
*Parapsyllus cardinis* Dunnet, 1961

*Coenocorypha aucklandica aucklandica*

- LICE: *Austromenopon* sp.  
*Quadriceps coenocoryphae* Timmerman, 1955

*Limosa limosa*

- LICE: *Actornithophilus spinulosus* (Piaget, 1880)  
*Austromenopon limosae* Timmermann, 1954  
*Carduiceps cingulatus* (Denny, 1842)  
*Luniceps limosella* Timmermann, 1954  
*Saemundssonina (Saemundssonina) thompsoni* Timmermann, 1951

*Limosa lapponica*

- LICE: *Actornithophilus limosae* (Kellogg, 1908)  
*Austromenopon meyeri* (Giebel, 1874)  
*Carduiceps cingulatus* (Denny, 1842)  
*Luniceps limosella* Timmermann, 1954  
*Saemundssonina (Saemundssonina) limosae* (Denny, 1842)

*Numenius phaeopus*

- LICE: *Austromenopon phaeopodis* (Schränk, 1802)  
*Luniceps numenii oliveri* (Johnston & Harrison, 1912)  
*Saemundssonina (Saemundssonina) scolopacisphaeopodis scolopacisphaeopodis* (Schränk, 1803)

*Numenius madagascariensis*

- LICE: *Luniceps numenii numenii* (Denny, 1842)

*Arenaria interpres*

- LICE: *Actornithophilus bicolor* (Piaget, 1880)  
*Actornithophilus pediculoides* (Mjöberg, 1910)  
*Austromenopon lutescens* (Burmeister, 1838)  
*Quadriceps strepsilaris* (Denny, 1842)

*Calidris tenuirostris*

- LICE: *Actornithophilus* sp.  
*Luniceps drosti* Timmermann, 1954  
*Saemundssonina (Saemundssonina) tringae sibiriae* Martens, 1974

*Calidris canutus*

- LICE: *Actornithophilus umbrinus* (Burmeister, 1838)  
*Austromenopon lutescens* (Burmeister, 1838)  
*Carduiceps zonarius* (Nitzsch [in Giebel], 1866)  
*Luniceps drosti* Timmermann, 1954  
*Saemundssonina (Saemundssonina) tringae tringae* (O. Fabricius, 1780)

*Calidris alba*

- LICE: *Actornithophilus umbrinus* (Burmeister, 1838)  
*Carduiceps zonarius* (Nitzsch [in Giebel], 1866)  
*Luniceps actophilus* (Kellogg & Chapman, 1899)

*Calidris ruficollis*

- LICE: *Actornithophilus umbrinus* (Burmeister, 1838)  
*Carduiceps zonarius* (Nitzsch [in Giebel], 1866)  
*Luniceps* sp.  
*Saemundssonina (Saemundssonina) tringae tringae* (O. Fabricius, 1780)

*Calidris melanotos*

- LICE: *Actornithophilus umbrinus* (Burmeister, 1838)

*Calidris acuminata*

- LICE: *Actornithophilus umbrinus* (Burmeister, 1838)  
*Carduiceps zonarius* (Nitzsch [in Giebel], 1866)  
*Luniceps* sp.

*Calidris ferruginea*

- LICE: *Actornithophilus umbrinus* (Burmeister, 1838)  
*Luniceps incoenis* (Kellogg & Chapman, 1899)

## Family GLAREOLIDAE

*Glaucula maldivarum*

- LICE: *Actornithophilus* sp.  
*Austromenopon* sp.  
*Quadriceps ellipticus* (Nitzsch [in Giebel], 1866)

## Family LARIDAE

*Catharacta skua lonnbergi*

- LICE: *Austromenopon fuscifasciatum* (Piaget, 1880)  
*Haffneria grandis* (Piaget, 1880)



- Saemundssonina* (*Saemundssonina*) *euryrhynga* (Giebel, 1874)
- FLEAS: *Parapsyllus heardi* de Meillon, 1952
- Catharacta maccormicki**
- LICE: *Austromenopon fuscofasciatum* (Piaget, 1880)  
*Haffneria grandis* (Piaget, 1880)  
*Quadriceps alpha* (Kellogg, 1914)  
*Saemundssonina* (*Saemundssonina*) *euryrhynga* (Giebel, 1874)
- Stercorarius parasiticus**
- LICE: *Austromenopon fuscofasciatum* (Piaget, 1880)  
*Haffneria grandis* (Piaget, 1880)  
*Quadriceps normifer normifer* (Grube, 1851)  
*Saemundssonina* (*Saemundssonina*) *cephalus* (Denny, 1842)
- Stercorarius longicaudus**
- LICE: *Austromenopon fuscofasciatum* (Piaget, 1880)  
*Quadriceps normifer parvopallidus* (Eichler, 1951)  
*Saemundssonina* (*Saemundssonina*) *inexpectata* Timmermann, 1951
- Larus pacificus**
- LICE: *Quadriceps punctatus ventosus* Timmermann, 1952  
*Saemundssonina* (*Saemundssonina*) *lari* (O. Fabricius, 1780)
- Larus dominicanus**
- LICE: *Actornithophilus piceus lari* (Packard, 1870)  
*Austromenopon transversum* (Denny, 1842)  
*Quadriceps ornatus fuscocolaminulatus* (Enderlein, 1908)  
*Quadriceps punctatus* (Burmeister, 1838) sensu lato  
*Saemundssonina* (*Saemundssonina*) *lari* (O. Fabricius, 1780)
- FLEAS: *Notiopsylla kerguelensis kerguelensis* (Taschenberg, 1880)  
*Parapsyllus longicornis* (Enderlein, 1901)  
*Parapsyllus nestoris nestoris* Smit, 1965
- TICKS: *Ixodes eudyptidis* Maskell, 1885
- Larus novaehollandiae novaehollandiae**
- LICE: *Actornithophilus piceus lari* (Packard, 1870)  
*Austromenopon transversum* (Denny, 1842)  
*Quadriceps punctatus lingulatus* (Waterston, 1914)  
*Saemundssonina* (*Saemundssonina*) *lari* (O. Fabricius, 1780)
- FLEAS: *Parapsyllus australiacus* Rothschild, 1909
- TICKS: *Ixodes eudyptidis* Maskell, 1885
- Larus novaehollandiae scopulinus**
- LICE: *Actornithophilus piceus lari* (Packard, 1870)  
*Austromenopon transversum* (Denny, 1842)  
*Quadriceps punctatus lingulatus* (Waterston, 1914)  
*Saemundssonina* (*Saemundssonina*) *lari* (O. Fabricius, 1780)
- FLEAS: *Parapsyllus longicornis* (Enderlein, 1901)  
*Parapsyllus magellanicus magellanicus* Jordan, 1938
- TICKS: *Ixodes eudyptidis* Maskell, 1885  
*Ornithodoros capensis* Neumann, 1901
- Larus bulleri**
- LICE: *Austromenopon transversum* (Denny, 1842)  
*Quadriceps punctatus* (Burmeister, 1838) sensu lato  
*Saemundssonina* (*Saemundssonina*) *lari* (O. Fabricius, 1780)
- Sterna caspia**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps caspius* (Giebel, 1874)
- Sterna bengalensis**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps sellatus* (Burmeister, 1838)  
*Saemundssonina* (*Saemundssonina*) *laticaudata* (Rudow, 1869)
- Sterna bergii**
- LICE: *Actornithophilus piceus piceus* (Denny, 1842)  
*Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps sellatus* (Burmeister, 1838)  
*Saemundssonina* (*Saemundssonina*) *laticaudata* (Rudow, 1869)
- Sterna bergii cristata**
- LICE: *Actornithophilus piceus piceus* (Denny, 1842)
- Sterna striata**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps sellatus* (Burmeister, 1838)  
*Saemundssonina* (*Saemundssonina*) *sternae* (Linnaeus, 1758)
- Sterna hirundo**
- LICE: *Quadriceps sellatus* (Burmeister, 1838)
- Sterna paradisaea**
- LICE: *Quadriceps houri* Hopkins, 1949  
*Saemundssonina* (*Saemundssonina*) *lockleyi* Clay, 1949
- Sterna vittata**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps houri* Hopkins, 1949  
*Quadriceps sellatus* (Burmeister, 1838)  
*Saemundssonina* (*Saemundssonina*) *lockleyi* Clay, 1949
- Sterna albostrigatus**
- LICE: *Quadriceps* sp.
- Sterna albifrons**
- LICE: *Quadriceps nychthemerus* (Burmeister, 1838)  
*Saemundssonina* (*Saemundssonina*) *melanocephalus* (Burmeister, 1838)
- Sterna nereis**
- LICE: *Quadriceps nychthemerus* (Burmeister, 1838)  
*Saemundssonina* (*Saemundssonina*) *melanocephalus* (Burmeister, 1838)
- TICKS: *Ixodes kohlsi* Arthur, 1955
- Sterna anaethetus**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps legatus* Timmermann, 1952  
*Saemundssonina* (*Saemundssonina*) *meridiana* Timmermann, 1950  
*Saemundssonina* (*Saemundssonina*) *lockleyi* Clay, 1949
- Sterna fuscata**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps birostris* (Giebel, 1874)  
*Saemundssonina* (*Saemundssonina*) *albemarlensis* (Kellogg & Kuwana, 1902)
- TICKS: *Amblyomma loculosum* Neumann, 1907  
*Ornithodoros capensis* Neumann, 1901
- Chlidonias hybridus**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps anagrapus* (Nitzsch [in Giebel], 1866)  
*Saemundssonina* (*Saemundssonina*) *lobaticeps lobaticeps* (Giebel, 1874)
- Chlidonias leucopterus**
- LICE: *Austromenopon atrofulvum* (Piaget, 1880)
- Anous stolidus**
- LICE: *Actornithophilus incisus* (Piaget, 1880)  
*Quadriceps separatus* (Kellogg & Kuwana, 1902)
- Anous minutus**
- LICE: *Actornithophilus ceruleus* (Timmermann, 1954)  
*Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps hopkinsi hopkinsi* Timmermann, 1952  
*Saemundssonina* (*Saemundssonina*) *lobaticeps remota* Timmermann, 1951
- TICKS: *Amblyomma loculosum* Neumann, 1907  
*Ornithodoros capensis* Neumann, 1901
- Anous tenuirostris**
- LICE: *Actornithophilus ceruleus* (Timmermann, 1954)  
*Quadriceps hopkinsi hopkinsi* Timmermann, 1952
- Procelsterna cerulea albivittata**
- LICE: *Actornithophilus ceruleus* (Timmermann, 1954)  
*Austromenopon atrofulvum* (Piaget, 1880)  
*Quadriceps hopkinsi apophoretus* Timmermann, 1969
- Gygis alba**
- LICE: *Saemundssonina* (*Saemundssonina*) sp.
- Family COLUMBIDAE
- Columba livia**
- LICE: *Bonomiella columbae* Emerson, 1957  
*Campanulotes bidentatus compar* (Burmeister, 1838)  
*Coloceras damicome* (Nitzsch, 1866)  
*Colpocephalum turbinatum* Denny, 1842  
*Columbicola columbae* (Linnaeus, 1758)  
*Hohorstiella lata* (Piaget, 1880)
- FLEAS: *Echidnophaga gallinacea* (Westwood, 1875)
- TICKS: *Argas persicus* group
- Streptopelia senegalensis**
- LICE: *Coloceras piageti* (Johnston & Harrison, 1912)
- Streptopelia chinensis**
- LICE: *Coloceras chinense* (Kellogg & Chapman, 1902)

**Streptopelia chinensis tigrina**

- LICE: *Coloceras chinense* (Kellogg & Chapman, 1902)  
*Coloceras piageti* (Johnston & Harrison, 1912)  
*Colpocephalum longicaudum*  
 Nitzsch [in Giebel], 1866

**Phaps chalcoptera**

- LICE: *Campanulotes flavus* (Rudow, 1869)  
*Coloceras grande* Tendeiro, 1973  
*Columbicola angustus* (Rudow, 1869)  
*Physconelloides strangeri* Tendeiro, 1980

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

**Phaps chalcoptera chalcoptera**

- LICE: *Columbicola tasmaniensis* Tendeiro, 1967  
*Physconelloides australiensis* Tendeiro, 1969

**Phaps elegans**

- LICE: *Campanulotes elegans* (Tendeiro, 1978)  
*Coloceras* sp.  
*Columbicola tasmaniensis* Tendeiro, 1967  
*Physconelloides australiensis* Tendeiro, 1969

LOUSE-FLIES: *Ornithomya nigricornis* Erichson, 1842

**Ocyphaps lophotes**

- LICE: *Campanulotes durdeni* Price, Clayton & Adams, 2000  
*Coloceras* sp.  
*Columbicola mckeani* Tendeiro, 1973  
 FLEAS: *Echidnophaga gallinacea* (Westwood, 1875)

**Geophaps plumifera**

- LICE: *Coloceras* sp.  
*Columbicola* sp.

**Ptilinopus magnificus magnificus, Ptilinopus magnificus assimilis**

- LICE: *Columbicola harrisoni* Tendeiro, 1965

**Lopholaimus antarcticus**

- LICE: *Coloceras furcatum* (Kéler, 1939)

**Hemiphaga novaeseelandiae novaeseelandiae**

- LICE: *Hohorstiella* sp.

**Hemiphaga novaeseelandiae (Tendeiro, 1972)****Hemiphaga novaeseelandiae chathamensis**

- LICE: *Coloceras harrisoni* (Tendeiro, 1972)

**Hemiphaga novaeseelandiae spadicea**

- LICE: *Coloceras hemiphagae* (Tendeiro, 1972)  
*Coloceras restinctum* (Tendeiro, 1972)

Table 1. Genera of lice associated with families of birds.

	SUB-ORDERS AND GENERA OF LICE	
	Amblycera	Ichnocera
<b>Charadriiformes</b>		
Jacaniidae		<i>Rallicola, Saemundssonina</i>
Chionididae	<i>Actornithophilus</i>	<i>Quadriceps, Saemundssonina</i>
Haematopodidae	<i>Actornithophilus</i>	<i>Quadriceps, Saemundssonina</i>
Recurvirostridae	<i>Austromenopon</i>	<i>Quadriceps, Saemundssonina</i>
Charadriidae	<i>Actornithophilus, Austromenopon</i>	<i>Quadriceps, Saemundssonina</i>
Scolopacidae		
Tringinae	<i>Actornithophilus, Austromenopon</i>	<i>Carduiceps, Luniceps, Saemundssonina</i>
Arenariinae	<i>Actornithophilus, Austromenopon</i>	<i>Quadriceps</i>
Calidrininae	<i>Actornithophilus</i>	<i>Carduiceps, Luniceps, Saemundssonina</i>
Glareolidae	<i>Actornithophilus, Austromenopon</i>	<i>Quadriceps</i>
Laridae	<i>Actornithophilus, Austromenopon</i>	<i>Haffneria, Quadriceps, Saemundssonina</i>
<b>Columbiformes</b>		
Columbidae	<i>Bonomiella, Colpocephalum, Hohorstiella</i>	<i>Campanulotes, Coloceras, Columbicola, Physconelloides</i>