

## A CENSUS OF AUSTRALIAN MALLOPHAGA.

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*Read before the Royal Society of Queensland, April 24th, 1912.*

WITH the exception of a few short papers by Messrs. Le Souef and Bullen, in the Victorian *Naturalist* (see Literature list), no work on *Mallophaga* has been done in Australia. The forms from Australian hosts that we list have been described by various European writers, rarely from material collected from the hosts in their natural state, but more often taken from skins in European museums, or from animals in captivity in the collections of the various Zoological Societies. It is to be expected that records of this nature will require some revision, as some stragglings are bound to occur.

The names of bird hosts are in accordance with Mathews' Handlist (1908), which is itself based on Sharpe's Handlist of Birds (1899). The synonym under which the host was originally quoted is in all cases given. Parasites from domesticated and introduced animals are dealt with in a separate paper. We have not included parasites described elsewhere from species, the range of which includes Australia, and the Australian seas; nor those from oceanic birds, except where a definite Australian reference is given. In one or two instances, new names have been used to replace others which were preoccupied.

Mr. Le Souef having kindly placed his collection of *Mallophaga* at our disposal, we are able to establish some synonymy after examination of his types. The making of new records from our own collections is left for a later communication.

It will be seen that *Mallophaga* have been recorded from but 48 out of nearly 900 bird species listed by Mathews; and from only 7 marsupials.

## MALLOPHAGA FROM BIRDS.

## DROMÆUS NOVÆHOLLANDIÆ, Lath.

*Degecricella asymmetrica*, [Nitzsch], Johnston & Harrison, 1912.

Syns. *Nirmus asymmetricus*, Nitzsch, 1866, xxviii., p. 370 ; Nitzsch in Giebel, 1874 p. 151, pl. 8, figs. 8-9 ; Piaget, 1877, p. . . . ; 1880, p. 205, pl. 17, fig. 3 (Paris Zoo).

*Nirmus setosum*, Le Souef & Bullen, 1902, xviii., p. 157, figs. 5-6 (*nec. N. setosus*, Giebel, 1876).

We have examined the type of *N. setosum*, Le Souef and Bullen, and find it to be identical with Nitzsch's species as described and figured in both Giebel and Piaget. Le Souef figures the male as possessing continuous bands on the posterior segments of the abdomen. This appearance is due to the strong ventral markings showing through in the cleared and mounted specimens. We have examples from the same host from Queensland, New South Wales, and Victoria.

*Lipeurus pallidus*, Giebel, 1866 (*nec. Piaget*, 1880).

Recorded from this host. Stated by Giebel (1874, p. 219) to agree so completely with *L. heterographus* from the domestic fowl, that he considers the two species identical, and the emu merely an accidental host.

## CATHETURUS LATHAMI, Lath.

*Goniocotes fissus*, Rudow.

Rudow, 1869, p. 23 (New Holland) ; 1870, xxxv., p. 477 ; Giebel, 1874, p. 187 ; Piaget, 1880, p. 231 ; Taschenberg, 1882, p. 84, pl. 2, figs. 7-7A (Hamburg Museum).

*Goniocotes macrocephalus*, Taschb.

Taschenberg, 1882, p. 7, pl. 2, fig. 11. (Hamburg Museum).

*Lipeurus crassus*, Rudow.

Rudow, 1870, p. 127 ; Giebel, 1874, p. 217 ; Piaget, 1880, p. 259 ; Taschenberg, 1882, p. 174.

*Lipeurus ischnocephalus*, Taschenberg.

Taschenberg, 1882, p. 173, pl. 6, fig. 8.

## SYNÆCUS AUSTRALIS, Temm.

*Goniodes elongatus*, Piaget.

Mr. A. S. Le Souef has collected specimens, which we identify as belonging to this species, from the above host in Victoria.

*Goniodes retracts*, Le Souef, 1902, xix., p. 90.

The male of this species is unknown, and it is possible that the species may have to be referred to the genus *Goniocotes* on its discovery. Locality, Victoria.

## EXCALFACTORIA LINEATA, Scop.

*Oxylipeurus acuminatus*, [Piaget], Mjoberg.

Mjoberg, 1910, p. 92.

Syn. *Lipeurus acuminatus*. Piaget.

Piaget, 1885, p. 70, pl. 7, fig. 6. Host quoted as *E. australis*. Leyden Museum.

*Goniodes elongatus*, Piaget.

Piaget, 1885, p. 53, pl. 5, fig. 10; 1880, p. 281, pl. 23, fig. 5.

Syn. *Goniodes longus*, Le Souef, 1902, xix, p. 90.

Taschenberg (1882, p. 71), believes this form to be identical with *Goniocotes asterocephalus*, Nitzsch, but Piaget (1885, p. 53) upholds the validity of the species. Host quoted as *E. australis*, Leyden Museum.

We have examined Le Souef's type of *G. longus*, and find it identical with *G. elongatus*, Piaget. Host quoted as *E. chinensis*, Victoria.

## MEGALOPREPIA MAGNIFICA, Temm.

*Lipeurus columbae*, [Linn].

Syn. *Lipeurus baculus*, Nitzsch, 1818.

This common parasite of pigeons is given as occurring on *Carpophaga magnifica* by Taschenberg (1882, p. 125). No locality is stated.

## MACROPYGGIA PHASIANELLA, Temm.

*Colpocephalum albidum*, Giebel.

Re. orded by Piaget (1880, p. 534, pl. 44. fig. 5), from *Columba phasianella*.

## PHAPS CHAUCOPTERA, Lath.

*Gonicotes flavus*, [Rudow], Giebel, 1874.

Syn. *Goniodes flavus*, Rudow, 1870, p. 486.

*Gonicotes flavus*, Giebel, 1874, p. 188; Piaget, 1880, p. 236; Taschenberg, 1882, p. 101, pl. 3, figs. 5-5A.

*Lipeurus angustus*, Rudow.

Rudow, 1869, p. 34; 1870, p. 137; Giebel, 1874, p. 216; Piaget, 1880, p. 306; Taschenberg, 1882, p. 123. From Tasmania. Taschenberg (1882, p. 123) considers that the species is probably identical with *L. baculus* (= *L. columbae*).

*Lipeurus columbae*, [Linn.], Neumann.

Syn. *L. baculus*, Nitzsch.

Recorded from the above host by Taschenberg (1882, p. 123), as *L. baculus*.

*Colpocephalum albidum*, Giebel.

Giebel, 1874, p. 268.

## LEUCOSARCIA PICATA, Lath.

*Lipeurus columbae*, [Linn.], Neumann.

Recorded from the above host by Taschenberg (1882, p. 124). Host quoted as *L. plicata* and the parasite as *Lip. baculus*.

## RALLINA TRICOLOR, Gray.

*Rallicola bisetosa*, [Piaget], Johnston & Harrison, 1912.

Syn. *Oncophorus bisetosus*, Piaget, 1880, p. 218. Leyden Museum.

## MICROTRIBONYX VENTRALIS, Gould.

*Goniodes cornutus*, Rudow.

Rudow, 1869, p. 26; 1870, p. 485; Giebel, 1874, p. 205; Piaget, 1880, p. 284.

## PORPHYRIO MELANONOTUS, Temm.

*Rallicola fallax*, [Piaget], Johnston & Harrison, 1912.

Syn. *Oncophorus fallax*, Piaget, 1880, p. 220, pl. 18, fig. 6. Eastern Australia, Leyden Museum.

## DAPTION CAPENSIS, Linn.

*Ancistrona procellariae*, Westwood.

Syn. *A. gigas*, Piaget.

Recorded from the above host by one of us (L. H., 1911) from Narrabeen, New South Wales.

## STERNA BERGII, Licht.

*Colpocephalum crassipes*, Piaget.

Recorded by Piaget (1880, p. 566) from a specimen of *S. poliocerca* in Leyden Museum. As this is Gould's species from S. E. Australia, now merged in *S. bergii*, we have included the reference, although no direct Australian locality is given.

## HYDRALECTOR GALLINACEUS, Temm.

*Rallicola sulcata*, [Piaget], Johnston & Harrison, 1912,

Syn. *Oncophorus sulcatus*, Piaget, 1880, p. 218.  
pl. 18, fig. 5. Rotterdam Zoo.

## ANTIGONE AUSTRALASIANA, Gould.

*Philopterus integer*, Nitzsch.

Syn. *Docophorus integer*, Nitzsch, 1886, p. 360 ;  
Giebel, 1874, p. 95 ; Piaget, 1880, p. 99.

*Docophorus novæhollandiæ*, Giebel, 1866,  
xxviii., p. 360, 1874, p. 96.

Giebel described the form from the above host (quoted as *Grus novæhollandiæ*) as a distinct species. Piaget does not uphold the distinction.

*Lipeurus giganteus*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 156, fig. 1.

*Lipeurus gruis*, [Linn.] Johnston & Harrison, 1912.

Syn. *L. hebræus*, Nitzsch, 1818.

*L. hebræus*, Nitzsch, 1866, p. 382 ; Giebel,  
1874, p. 226.

Taschenberg (1882, p. 133) records the occurrence of *L. hebræus* on *Grus novæhollandiæ*.

We have examined specimens of the last two species from the same host from Queensland, Victoria, and N.S. Wales.

## IBIS MOLUCCA, Cuv.

*Lipeurus ibis*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 156, fig. 2.

Host quoted as *Threskiornis stictipennis*.

## PLATIBIS FLAVIPES, Gould.

*Ornithobius fuscus*, Le Souef.

Le Souef (1902, xix., p. 91) states that he has met with *O. fuscus* on the Australian spoonbill. Possibly it has only straggled from a swan.

**XENORHYNCHUS ASIATICUS**, Lath.*Philoferus horridus*, Giebel.Syn. *Docophorus horridus*, Giebel, 1876, p. 249 ;  
Piaget, 1880, p. 97.Host quoted as *Ciconia australis*.**NOTOPHOYX NOVÆ-HOLLANDIÆ**, Lath.*Lipeurus unguiculatus*, Piaget.

Piaget, 1888, xxxi., p. 247, Pl. 10, fig. 2.

Host quoted as *Herodias novæhollandiæ*.**CHENOPSIS ATRATA**, Lath.*Lipeurus anatis megaceros*, Johnston & Harrison, 1912.Syn. *Lipeurus squalidus*, var. *antennatus*, Piaget,  
1880, p. 346. *L. squalidus*, Nitzsch, is a synonym  
of *L. anatis*, Fabricius. The name *antennatus* is pre-  
occupied by *L. antennatus*, Giebel (1874, p. 213).  
We therefore propose to substitute the sub-specific  
name *megaceros* as above. Host quoted as *Cygnus*  
*atratus*, Rotterdam Zoo.*Ornithobius fuscus*, Le Souef.

Le Souef, 1902, xix., p. 91. Victoria.

*Trinoton niger*, Le Souef.

Le Souef, 1902, xix., p. 91. Victoria.

*Colpocephalum castaneum*, Piaget.Piaget, 1885, p. 153, Pl. 16, fig. 7. Host quoted  
as *Cygnus atratus*, Rotterdam Zoo.**CEREOPSIS NOVÆ-HOLLANDIÆ**, Lath.*Lipeurus australis*, Rudow.Rudow, 1869, p. 38 ; 1870, p. 130 ; Giebel, 1874,  
p. 239 ; Piaget, 1880, p. 351 ; Taschenberg, 1882,  
p. 164.Taschenberg notes that this species is closely  
related to *L. jejunus* Nitzsch (= *L. crassicornis*, Olfers),  
his material coming from the Hamburg Museum.**NETTIUM GIBBERIFRONS**, S. Müll.*Lipeurus anatis major*, Piaget.Syn. *Lipeurus squalidus*, var. *major*, Piaget, 1880  
p. 346. Host quoted as *Anas gibberiformis*.

## PHALACROCORAX SULCIROSTRIS, Brandt.

*Lipeurus setosus*, Piaget.

Piaget, 1880, p. 335, Pl. 27, fig. 4. Host quoted as *Phalacrocorax (Graculus) sulcirostris*, Leyden Museum.

*Menopon subrotundum*, Piaget.

Piaget, 1880, p. 453, Pl. 35, fig. 2. Host quoted as *Gracula sulcirostris*, Rotterdam Zoo.

## SULA SERRATOR, Gray.

*Philopterus breviantennatus*, [Piaget] J. & H., 1912.

Syn. *Docophorus breviantennatus*, Piaget, 1880, p. 108, Pl. 9, fig. 9. Host quoted as *Sula australis*; Leyden Museum.

*Pectinopygus gyricornis* (Denny) J. & H., 1912.

Syn. *Lipcurus gyricornis*, Denny.

Piaget, (1880 p. 337, Pl. 27, fig. 8) records this species—originally described by Denny (1842, p. 167) from a tern, *Sterna hirundo*—from *Sula australis*, Leyden Museum. This species has the typical form of *Lipeures* from *Sula*.

*Menopon albescens*, Piaget.

Piaget, 1880, p. 491, Pl. 41, fig. 4. Host quoted as *Sula australis*.

## MICROGLOSSUS ATERRIMUS, Gmel.

*Colpocephalum temporale*, Piaget.

Piaget, 1888, p. 252, Pl. 10, fig. 6. Host quoted as *Psittacus aterrimus*, Rotterdam Zoo.

*Degeeriella paraboliceps*, [Piaget]. J. & H., 1912.

Syn. *Nirmus paraboliceps*, Piaget, 1880, p. 135, Pl. 11, fig. 5. Host and locality as above.

## CALYPTORHYNCHUS VIRIDIS, Vieill.

*Lipeurus circumfasciatus*, Piaget.

Piaget, 1880, p. 301, Pl. 24, fig. 6. Taschenberg (1882, p. 118, Pl. 3, fig. 13) records this species from the above host under the name of *C. leachi*, no locality being given.

## CACATUA GALERITA, Lath.

*Lipeurus albus*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 157, fig. 4.  
Victoria.

## CACATUA ROSEICAPILLA. Vieill.

*Degeeriella eos*. [Rudow.] J. & H., 1912.

Syns. *Nirmus eos*, Rudow, 1870, xxxv., p. 471 ;  
Giebel, 1874, p. 181 ; Piaget, 1880, p. 137.

*Nirmus tenuis*, Rudow, 1870,, xxxv., p. 471 (*nec*,  
Nitzsch in Burmeister, 1832, p. 429).

Giebel has quoted this host under two different names,—as *Plectolophus roseocapillus* in his Index (1874, p. x.), and as *Cacatua eos* in the text (1874, p. 181); Gurlt (1878), in preparing his list, has copied Giebel's names, but has quoted them as referring to two distinct hosts, *Psittacus eos* and *Psittacus roseocapillus* (*vide* Piaget, 1880, p. xvii.)

## CALOPSITTACUS NOVÆ-HOLLANDIÆ. Gmel.

*Goniocotes fasciatus*, Piaget.

Piaget, 1880, p. 236, Pl. 19, fig. 11. Host quoted as *Nymphicus novæ-hollandiæ*, Leyden Museum and Rotterdam Zoo. It is questionable whether this species should be included in its present genus.

## POLYTELIS BARRABANDI, Swains.

*Philopterus angustoclypeatus*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus angustoclypeatus*, Piaget, 1880, p. 34, pl. 2, fig. 3. Host recorded as *Platycercus barrabandi*.

*Philopterus forficula*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus forficula*, Piaget, 1871, p. .... ; 1880, p. 32, pl. 2, fig. 1. Host as above.

*Colpocephalum trimaculatum*, Piaget.

Piaget, 1880, p. 525, pl. 43, fig. 8. Host as above ; Rotterdam Zoo.



## POLYTELIS MELANURA, Vig.

*Lipeurus circumfasciatus*, Piaget.

Piaget, 1880, p. 301, pl. 24, fig. 6; Taschenberg, 1882, p. 118, pl. 3, fig. 13. Host given as *Platycercus melanurus*, Leyden Museum.

## APROSMICTUS CYANOPYGIUS, Vieill.

*Philopterus forficula*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus forficula*, Piaget, 1871, p. ....; 1880, p. 32, pl. 2 fig. 1. Host given as *Platycercus scapulatus*.

## PLATYCERCUS ELEGANS, Gmel.

*Philopterus forficula*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus forficula*, Piaget, 1871, p. ....; 1880, p. 32, pl. 2. fig. 1. Host given as *P. pennantii*.

## PLATYCERCUS PALLIDICEPS, Vig.

*Colpocephalum trimaculatum*, Piaget.

Piaget, 1880, p. 525, pl. 43, fig. 8. Host quoted as *P. palliceps*, Rotterdam Zoo.

## PLATYCERCUS EXIMIUS, Shaw.

*Philopterus forficula*, [Piaget], Johnston & Harrison, 1912.

Syn. *Docophorus forficula*, Piaget, 1871, p. ....; 1880, p. 32, pl. 2, fig. 1.

*Menopon psittacus*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 158, fig. 8.

## BARNARDIUS ZONARIUS, Shaw.

*Philopterus forficula*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus forficula*, Piaget, 1871, p. ....; 1880, p. 32, pl. 2. fig. 1. Host quoted as *Platycercus baueri*, (p. 33) and *P. zonarius (baueri)* (p. 684).

## DACELO GIGAS, Bodd.

*Philopterus delphax*, [Nitzsch] Johnston & Harrison, 1912.

Syn. *Docophorus delphax*, Nitzsch, 1866, p. 360; Nitzsch in Giebel, 1874, p. 92. Host quoted as *Dacelo gigantea*, Halle Museum. Piaget, 1880, p. 75.

*Degeeriella bracteata*, [Nitzsch] Johnston & Harrison, 1912.

Syn. *Nirmus bracteatus*, Nitzsch, 1866, p. 369 ; Giebel, 1874, p. 145 ; Piaget, 1880, p. 163. Host as above.

*Degeeriella goniocotes*, [Piaget] Johnston & Harrison, 1912.

Syn. *Nirmus goniocotes*, Piaget, 1885, p. 33, pl. 4, fig. 3. Host given as *Dacelo gigas* from Madagascar (Leyden Museum). As this bird is confined to Australia, either the locality or the host is incorrectly stated.

*Menopon infumatum*, Piaget.

Piaget, 1885, p. 106, pl. 11, fig. 7. Reference to same host and locality as last species.

#### CACOMANTIS RUFULUS, Vieill.

*Philoaterus laticlypeatus*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus laticlypeatus*, Piaget, 1871, p. . . . ; 1880, p. 37, pl. 2, fig. 9. Host given as *Cuculus flabelliformis* from New Holland, Leyden Museum.

#### SCYTHROPS NOVÆHOLLANDIÆ, Lath.

*Philoaterus obcordatus*, [Piaget] Johnston & Harrison, 1912.

Syn. *Docophorus obcordatus*, Piaget, 1871, p. . . . ; 1880, p. 38, pl. 2, fig. 10. Leyden Museum.

*Degeeriella lipeuriformis*, [Rudow] Johnston & Harrison, 1912.

Syn. *Nirmus lipeuriformis*, Rudow, 1870, p. 470 ; *Nirmus chelurus*, Nitzsch in Giebel, 1874, p. 150 ; Piaget, 1880, p. 138. Dry skin ; Paris. Giebel, (1874, p. 151) establishes the identity of Rudow's and Nitzsch's species, but wrongly retains Nitzsch's name.

*Menopon platygaster*, Giebel.

Giebel, 1874, p. 290 ; Piaget, 1880, p. 420, pl. 32, fig. 5. Leyden Museum.

#### MENURA SUPERBA, Davies.

*Philoaterus paraboliceps*, [Piaget] J. & H., 1912.

Syn. *Docophorus paraboliceps*, Piaget, 1888, p. 224, pl. 8, fig. 2. Host quoted as *Menura lyra*.

*Degeeriella submarginalis*, [Burmeister] J. & H., 1912,  
 Syn. *Nirmus submarginalis*, Burmeister, 1832.  
 p. 431; *N. submarginellus*, Nitzsch, 1866, p. 368;  
 Giebel, 1874, p. 148; Piaget, 1880, p. 155; 1885,  
 p. 22, pl. 3, fig. 2 (Halle Museum); *N. menuræ-lyrae*,  
 Coinde, 1859, p. 424; *N. menura*, Le Souef & Bullen,  
 1902, p. 157.

Kellogg (1908, p. 27) gives *Menura superba* as  
 a host of *Nirmus* (i.e. *Degeeriella*) *marginalis*, Nitzsch.  
 We cannot find any reference justifying this; hence  
 we have concluded that it is an error.

#### MENURA VICTORIÆ, Gould.

*Lipeurus menura*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 157, fig. 3.

*Menopon menura*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 158, fig. 9.

*Degeeriella submarginalis*, [Burmeister].

Syn. *Nirmus menura*, Le Souef and Bullen, 1902,  
 xviii., p. 157. For full synonymy, see under *Menura*  
*superba*. We have examined Le Souef and Bullen's  
 type of *N. menura*, and find it identical with the  
 above species. These authors quote the host as  
*Menura superba*, but Mr. Le Souef informs us that  
 the birds were the now separated Victorian form  
*M. victoriæ*.

#### GYMNORHINA TIBICEN, Lath.

*Degeeriella bimaculata*, [Piaget] Johnston & Harrison,  
 1912.

Syn. *Nirmus bimaculatus*, Piaget, 1885, p. 148,  
 pl. 16, fig. 1. Host given as *Baryta tibicen*, Rotterdam  
 Zoo.

#### GYMNORHINA LEUCONOTA, Gray.

*Degeeriella semiannulata*, [Piaget] Johnston & Harrison,  
 1912.

Syn. *Nirmus semiannulatus*, Piaget, 1883, p. 156;  
 1885, p. 24, pl. 3, fig. 11. Host quoted as *Baryta*  
*leuconota*.

Piaget (1880, p. 140) records *Nirmus varius* (i.e.  
*Degeeriella varia*) Nitzsch, from the above host. This  
 is a common parasite of European crows, and prob-

ably straggled from one of these on to the *Gymnorhina*, which was very probably a captive in the Rotterdam Zoo, where much of Piaget's material was collected.

**PARDALOTUS PUNCTATUS**, Shaw.

*Menopon*, sp.

Giebel (1874, p. 286) mentions that Nitzsch had a damaged individual of a species of *Menopon* from the above host, which was not in sufficiently good condition to justify description. Nitzsch considered it to be closely allied to his own *M. minutum*.

**GLYCIPHILA FASCIATA**, Gould.

*Goniocotes candidus* var. *pellucidus*, Piaget.

Piaget, 1885, p. 40, pl. 4, f. g. 10. Leyden Museum. This is possibly a straggler, as it is extremely unlikely that *Goniocotes* should occur on the *Meliphagidæ*, and particularly on such a small honey-eater as *G. fasciata*.

**PTILONORHYNCHUS VIOLACEUS**, Vieill.

*Philopterus grandiceps*, [Giebel] Johnston and Harrison, 1912.

Syn. *Docophorus grandiceps*, Giebel, 1874, p. 85; Piaget, 1880, p. 53. Host quoted as *P. holosericeus*. *Degeeriella pontoni*, Johnston & Harrison, 1912.

Syn. *Nirmus nitzschi*, Ponton, 1871 (nec. Giebel, 1866, p. 364; 1874, p. 125). This species is referred to by Gurlt (1878). Piaget merely mentions the name. We have not been able to consult Ponton's original description. As the specific name *nitzschi* was preoccupied by Giebel in 1866, we have substituted for it *pontonii*, in compliment to the author of the species.

Giebel (1874, p. 133) gives a brief description of *Nirmus* (= *Degeeriella*) sp. from the above host, collected from a dry skin, but not in sufficiently good condition to allow description.

**SERICULUS CHRYSOCEPHALUS**, Lewin.

*Degeeriella hectica*, [Nitzsch] Johnston & Harrison, 1912.

Syn. *Nirmus hecticus*, Nitzsch, 1866, p. 366; Giebel, 1874, p. 136; Piaget, 1880, p. 161. Host quoted as *Sericulus regens*.

STREPERA GRACULINA, White.

*Colpocephalum vinculum*, Le Souef & Bullen.

Le Souef & Bullen, 1902, xviii., p. 158, fig. 10.

### MALLOPHAGA FROM MARSUPIALS.

MACROPUS GIGANTEUS, Zimm.

*Heterodoxus longitarsus*, [Piaget] Johnston & Harrison, 1912.

Syn. *Menopon longitarsus*, Piaget, 1880, p. 504, pl. 41, fig. 7. Rotterdam Zoo. Host quoted as *Halmaturus giganteus*.

MACROPUS RUFUS, Desm.

*Boopia grandis*, Piaget.

Piaget, 1885, p. 154, pl. 16, fig. 8.

MACROPUS DORSALIS, Gray.

*Boopia minuta*, Le Souef.

Le Souef, 1902, xix., p. 51, fig. 8.

MACROPUS UALBATUS, Less & Garn.

*Boopia notajusca*, Le Souef.

Le Souef, 1902, xix., p. 50, fig. 1.

“Kangaroos and Wallabies.”

*Heterodoxus longitarsus*, [Piaget] Johnston & Harrison, 1912.

Syn. *Menopon longitarsus*, Piaget, 1880, p. 504 pl. 41, fig. 7. *Heterodoxu macropus*, Le Souef & Bullen, 1902, xviii., p. 159, fig. 11; Froggatt, 1907, p. 391. We have examined the types of *Heterodoxus macropus*, Le Souef and Bullen, and find the species to be identical with that described by Piaget as *Menopon longitarsus*. No hosts are indicated specifically by the former authors. We will deal more fully with the host distribution of this parasite in a forthcoming paper on Mallophaga from Marsupials.

*Latumcephalum macropus*, Le Souef.

Le Souef, 1902, xix., p. 51, fig. 4.

PETROGALE PENICILLATA, Gray.

*Trichodectes penicillatus*, Piaget.

Piaget, 1880, p. 506, pl. 32, fig. 10, Rotterdam Zoo. Taschenberg (1882, p. 214) states that this

species is identical with *Tr. crassipes*, Rudow (1886, p. 111, pl. 7, fig. 1) from the Angora goat. Raillet (1895, p. 837) and Neumann (1905, p. 65) refer to the species, suggesting that in one of the above cases the host is wrongly indicated. Material collected by ourselves from the above host does not include any *Trichodectes*, nor have we found a member of this genus on any of a large number of marsupials examined.

*AEPYPRYMNUS RUFESCENS*, Gray.

*Boopia bettongia*, Le Souef.

Le Souef, 1902, xix., p. 50, fig. 2. Host quoted as *Bettongia rufescens*.

*PHASCOLOMYS URSINUS*, Shaw.

*Boopia tarsata*, Piaget.

Piaget, 1880, p. 599, pl. 50, fig. 1. Host quoted as *Phascolomys fossr*.

*Colpocephalum truncatum*, Piaget.

Piaget, 1880, p. 540, pl. 45, fig. 2. Piaget (1880, p. 542) records finding this species, which is a parasite of *Grus communis*, on a wombat. This is evidently a case of straggling.

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LITERATURE LIST.

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- 1832 Burmeister—Handb. d. Entomol, 1832.  
 1859 Coinde—Bull. Soc. imp. Nat., Moscou, xxxii., 1859.  
 1842 Denny—Monogr. Anoplurorum Britanniae, London, 1842.  
 1907 Froggatt—Australian Insects, Sydney, 1907.  
 1866 Giebel—Z.f. ges. Naturwiss., xxviii.  
 1874 Giebel—"Insecta Epizoa, etc." Liepzig, 1874.  
 1876 Giebel—Z. f. ges. Naturwiss.  
 1878 Gurlt—Arch. f Naturgesch., xlv.  
 1911—Harrison—Proc. Linn. Soc., N.S.W., Notes and Exhibits, pt. 3, 1911.  
 1911 Johnston & Harrison—"Notes on some Mallophagan Generic Names," P.L.S., N.S.W. 1911.

- 1912 Johnston & Harrison—"A Census of Australian Mallophaga." Proc. Roy. Soc. Queensland, 1912. (The present paper.)
- 1908—Kellogg—"Mallophaga," in Wytsmann's "Genera Insectorum" Fasc. 66.
- 1902—Le Souef—Victorian Naturalist, xix., p. 50.
- 1902 Le Souef & Bullen—Vict. Nat., xviii., p. 155.
- 1902 Le Souef & Bullen—Vict. Nat., xviii., p. 159.
- 1908 Matthews—"Handlist of the Birds of Australia." "Emu" vii., pt. 3, 1908, Supplement.
- 1910 Mjoberg—Arkiv. f. Zoologi. vi., No. 13.
- 1905 Neumann, "Parasites et Maladies parasitaires des Oiseaux domestiques," Paris, 1909.
- 1818 Nitzsch—in Germar's Magazin d. Entom., iii, 1818, pp. 261, sqq.
- 1866 Nitzsch—Zeitschr. f. ges. Naturwiss, xxviii.
- 1874 Nitzsch—(in Giebel) "Insecta Epizoa," 1874.
- 1871 Piaget—Tijd. v. Ent., xiv.
- 1877 Piaget—Tijd. v. Ent., xx.
- 1880 Piaget—"Les Pediculines, Essai Monographique." Leiden, 1880.
- 1885 Piaget—"Les Pediculines, Essai Monographique," Supplement, Leiden, 1885.
- 1888 Piaget—Tijd. v. Ent., xxxi.
- 1871 Ponton—American Monthly Microscopical Journal, vi.
- 1895 Raillet—Traite d. Zool. Agric. Medic.
- 1869 Rudow—Beitrag, etc. Inaug. Dissert. Halle.
- 1870 Rudow—Zeitschr. f. ges. Naturwiss, xxxv and xxxvi.
- 1899 Sharpe—"A Handlist of the Genera and Species of Birds," London, 1899, sqq.
- 1882 Taschenberg—"Die Mallophagen, etc," Nova. Acta. Halle, xlv., 1, 1882.
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A CENSUS OF AUSTRALIAN MALLOPHAGA.

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*Read before the Royal Society of Queensland, April 24th, 1912.*

*Issued 12th July, 1912.*

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