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A TENTATIVE LIST OF MALLOPHAGA
FOR
NORTH AMERICAN BIRDS
(NORTH OF MEXICO)

by
K.C. EVERSON, PhD

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A TENTATIVE LIST OF MALLOPHAGA
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INTRODUCTION

This volume is designed to serve as a ready reference, to the known species of Mallophaga (Chewing Lice) found on birds of North America (North of Mexico). Since Mallophaga are parasitic, distribution is entirely dependent upon the distribution of hosts; which in the case of many migratory birds is not limited to the New World. In other instances, certain New World birds are only subspecies of forms found elsewhere.

Most records of North American Mallophaga published prior to 1945 were based on an outdated or inadequate classification, and without proper consideration for earlier European literature. In addition, there often was a tendency prior to that date to lump all forms that were congeneric, found on a particular group of birds, under one name.

Remarkable progress in the taxonomy of Mallophaga has been accomplished in the last twenty-five years. More challenges in taxonomy remain today in Mallophaga, than probably in any other order of Insecta.

Anyone contemplating a systematic study of the order is referred to: Hopkins and Clay (1952)--"A check-list of the genera and species of Mallophaga" and "Additions." Their check-list is a good index to the known forms and the literature pertaining thereto. The classification contained therein, with few exceptions, is acceptable to all those actively studying the systematics of the order.

NOTES OF EXPLANATION

All host names are from the A. O. U. Checklist, Fifth Edition. Birds which breed, range, or are recorded as casual in North America (North of Mexico) were considered. Accidental occurrences were not considered. Exotic species which have been successfully introduced are included.

Host subspecies are not listed. Except as noted in the list, the same species of Mallophaga are found on all subspecies of the host.

A few of the early authors listed the type series of Mallophaga as being derived from several species of hosts. This is very unlikely and usually indicates that the name contains two or more taxa. In those cases, the name has been listed under all hosts mentioned with an indication that the true host of the holotype has not been determined or that a lectotype has not been selected from the syntypes thereby fixing the type host.

Some species of Mallophaga are found on more than one species of host. Species and subspecies of Mallophaga found on hosts, other than the type host are so indicated.

Synonymy and references are listed under the type host, or the first time the species is listed if the type host is not found in North America.

Taxonomic studies published prior to 1 June 1962 have been considered in the preparation of this paper.

Host reference and synonymy which differ from that found in Hopkins and Clay are the present opinion of the author. These, and opinions expressed by other authors, are still subject to examination and review; as much remains to be done in the systematics of the order.

GAVIIFORMES

Gaviidae

The genus Craspedonirmus Thompson, 1940 (Ann. Mag. Nat. Hist., (11), 6: 516) is found only on this order of birds. No other genus is known or suspected to parasitize this order of birds. For a discussion of the genus see Emerson, 1955, Ann. Mag. Nat. Hist., (12), 8: 718.

CAVIIFORMES

Gavidae

Gavia immer (Brunnich)--Common Loon.

Craspedonirmus immer Emerson, 1955

Craspedonirmus immer Emerson, 1955, Ann. Mag.
Nat. Hist., (12) 8: 720.

Gavia arctica (Linnaeus)--Arctic Loon.

Craspedonirmus colymbinus (Denny, 1842)

Type host: Gavia stellata (Pontoppidan)

Gavia stellata (Pontoppidan)--Red-throated Loon.

Craspedonirmus colymbinus (Denny, 1842)

Docophorus colymbinus Denny, 1842. Mon. Anopl.

Brit.: 43 and 80, pl. 8, fig. 8.

Nirmus frontatus Nitzsch, 1866. In Giebel.

Z. ges. NatWiss., 28: 378.

Docophorus bisetosus Piaget, 1885. Les Pediculines,
Supplement: 17, pl. 2, fig. 6.

Docophorus graviceps Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 82, pl. 3, fig. 3.

Docophorus atricolor Kellogg, 1896. Proc. Calif. Acad.
Sci. 6: 93, pl. 3, fig. 9.

PODICIPITIFORMES
Podicipitidae

The genus Aquanirmus Clay and Meinhertzhagen, 1939 (Entomologist, 72: 163) is found only on this order of birds. Dr. Edwards (U. S. Fish and Wildlife Service, Woods Hole, Massachusetts) has reviewed the genus and is describing several new species from North American hosts.

The genus Pseudomenopon Mjöberg, 1910 (Ark. Zool. 6: 50) is also found on the family Rallidae, order Gruiformes.

The genus Laemobothrion Nitzsch, 1818 (Germar's Mag. Ent., 3:301) is also found in North America on the order Falconiformes, and the families Aramiidae and Rallidae, order Gruiformes.

Except for the genus Aquanirmus, no modern taxonomic work has been accomplished on the Mallophaga found on this order of birds. I suspect that only one species of Pseudomenopon is found on all species of Grebes, this is probably true also for Laemobothrion.

PODICIPITIFORMES
Podicipitidae

Podiceps caspicus (Hablizl)--Eared Grebe

Aquasirmus americanus (Kellogg and Chapman, 1899)

Nirmus fuscomarginatus americanus Kellogg and Chapman, 1899.
Proc. Calif. Acad. Sci., 6: 69, pl. 5, fig. 9.

Laemobothrion simile Kellogg, 1896

Laemobothrion similis Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 153, pl. 14, figs. 1 and 2.

Pseudomenopon insolens (Kellogg, 1896)

Menopon tridens insolens Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 166, pl. 15, figs. 3 and 4.

Aechmophorus occidentalis (Lawrence)--Western Grebe

Pseudomenopon par (Kellogg, 1896)

Menopon tridens par Kellogg, 1896, Proc. Calif. Acad. Sci.
6: 166

PROCELLARIIFORMES
Diomedidae

The genus Docophoroides Giglioli, 1864 (Quart. J. Micr. Sci., 4: 21) is restricted to this family. For a discussion of the genus see Timmermann, 1959, Mitt. Zool. Mus. Berlin, 35: 56.

The genus Episbates Harrison, 1935 (In Thompson, Ann. Mag. Nat. Hist., (10), 16: 485) is apparently restricted to this family. Specimens are seldom collected, hence the lack of data on distribution. For a discussion of the genus see Thompson, 1947, Ann. Mag. Nat. Hist., (11), 14: 661.

The genus Harrisoniella Bedford, 1929 (Rept. Vet. Res. S. Afr., 15: 529) is found on this order and the family Stercorariidae, ~~order~~ Charadriiformes. For a discussion of the genus see Keler, 1957, Beitr. Ent., 7: 496. The genus Harrisoniella as generally accepted is referred to in the above mentioned paper as Diomedicola.

The genus Perineus Harrison, 1936 (In Thompson, Ann. Mag. Nat. Hist., (10), 18: 41) is found only on this order. For a discussion of the genus see Keler, 1957 (Beitr. Ent., 7: 493).

The genus Procellariphaga Eichler, 1949 (Boll. Soc. Ent., Ital., 79: 12) is restricted to this order. No comprehensive study of the genus has been made. Clay, 1959 (Proc. R. Ent. Soc. Lond., (B), 28: 157) considers the genus to be a synonym of Austromenopon. I do not consider the two to be congeneric, and that Austromenopon is

restricted to family Phaethontidae, order Pelecaniformes and the order Charadriiformes.

The genus Naubates Bedford, 1930 (Rep. Vet. Res. S. Afr., 16: 167) is also found on the family Procellariidae, order Procellariiformes. For a discussion of the genus see Timmermann, 1961, Zool. Anz., 166: 173.

Keler in 1956, Beitr. Ent., 6: 521; 1957, 7: 281; and 1958, 8: 379 discussed a taxon which he incorrectly considered to be the genus Harrisoniella. This taxon warrants generic rank, and after certain petitions have been acted upon by the International Commission of Zoological Nomenclature, action can be taken to name and define the genus in accordance with acceptable procedures.

PROCELLARIIFORMES
Diomedeidae

Diomedea albatrus Pallas--Short-tailed Albatross

Docophoroides pacificus (Kellogg, 1914)

"Eurymetopus taurus" Kellogg, 1896 (nec Nitzsch, 1866).
Proc. Calif. Acad. Sci., 6: 135, pl. 2, figs. 2-6.
Eurymetopus pacificus Kellogg, 1914. Sci. Bull. Brooklyn
Inst., 2: 87. (an for "E. taurus" Kellogg, 1896).

Episbates pederiformis (Dufour, 1835)

(Type host: Diomedea exulans Linnaeus)
Philoptyrus pederiformis Dufour, 1835. Ann. Soc. Ent.
Fr., 4: 676, pl. 21, fig. 4.
Metopeuron laevis Rudow, 1870. Z. ges. Nat. Wiss., 35: 160.
Nirmus angulicollis Giebel, 1876. Ann. Mag. Nat. Hist.,
(4), 17: 368.
Lipeurus breviceps Piaget, 1890 (nec Packard, 1870).
Tijdschr. Ent., 33: 243, pl. 9, fig. 6.
Lipeurus macilhennyi Kellogg and Kuvana, 1901. Proc.
Acad. Nat. Sci. Philad., 1900: 155, pl. 7, fig. 3.
Lipeurus elongatus Miller, 1927. Ber. Westpreuss. Bot.-Zool.
Ver., 49: 2 (an for L. breviceps Piaget, 1890).

Harrisoniella densa (Kellogg, 1896)

Lipeurus densus Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 114, pl. 7, figs. 1-2.

Perineus concinnus (Kellogg and Chapman, 1899)

Lipeurus concinnus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 97, pl. 7, fig. 2.

"Perineus" confidens (Kellogg, 1899)

(Type host: Diomedea nigripes Audubon)

"Perineus" giganticola (Kellogg, 1896)

Nirmus giganticola Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 105, pl. 5, fig. 6.

Procellariophaga pinguis (Kellogg, 1896)

Colpocephalum pingue Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 144, pl. 12, fig. 4.
Menopon navigans Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 156, pl. 14, figs. 4-5.
Menopon irrumpens Kellogg and Chapman, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 117, pl. 8, fig. 1.

"Perineus" requires a new genus.

Diomedea nigripes Audubon--Black-footed Albatross

Docophoroides ferrisi Harrison, 1937

Docophoroides ferrisi Harrison, 1937. Sci. Rept.
Austr. Antarct. Exped., C2, Pt. I: 44, fig. 7.

Episbates pederiformis (Dufour, 1835)

(Type host: Diomedea exulans Linnaeus)

Harrisoniella densa (Kellogg, 1896)

(Type host: Diomedea albatrus Pallas)

"Perineus" confidens (Kellogg, 1899)

Lipeurus confidens Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 26, pl. 3, fig. 1.

Diomedea immutabilis Rothschild--Laysan Albatross

Docophoroides ferrisi Harrison, 1937

(Type host: Diomedea nigripes Audubon)

Harrisoniella densa (Kellogg, 1896)

(Type host: Diomedea albatrus Pallas)

Perineus tenuipennis Koler, 1950

Perineus tenuipennis Koler, 1950. Austr. Ent., 8: 104,
fig. 1.

"Perineus" giganticola (Kellogg, 1896)

(Type host: Diomedea albatrus Pallas)

PROCELLARIIFORMES
Procellariidae

The genus Ancistroneura Westwood, 1874 (Thesaurus Entomologicus Oxoniensis: 197) is apparently restricted to this family.

The genus Halipeurus Thompson, 1936 (Ann. Mag. Nat. Hist., (10), 18: 40) is also found on the family Hydrobatidae, order Procellariiformes. For discussions of this genus see Edwards, 1961, Jour. Parasit., 47: 125; and Timmermann, 1960, Zeitr. Parasit., 20: 317; and 1961, 20: 401.

The genus Longimenopon Thompson, 1948 (Occ. Pap. Bishop. Mus., 19: 197) is found on the families Procellariidae and Hydrobatidae, order Procellariiformes, but todate none have been recorded from the hosts listed. For a discussion of the genus see Timmermann, 1957, Results of the Norwegian Sci., Exped. to Tristan da Cunha, 1937-1938, No. 41: 7.

The genus Philoceanus Kellogg, 1903 (Biol. Bull. Wood's Hole, 5: 87) is also found on the family Hydrobatidae, order Procellariiformes. For a discussion of the genus see Timmermann, 1961, Zeitr. Parasit., 20: 525.

The genus Pseudonirmus Mjöberg 1910 (Ark. Zool, 6: 149) is found on this family, but has not been recorded todate from the hosts listed. For a discussion of the genus see Thompson, 1939, Ann. Mag. Nat. Hist., (11), 3: 114.

The genus Saemundssonina Timmermann, 1935 (Zool. Anz., 114: 97) is found on the families of Procellariidae and Hydrobatidae, order Procellariiformes; the family Phaethontidae, order Pelecaniformes; the family Gruidae, order Gruiformes; and the order Charadriiformes.

The genus Trabeculus Rudow, 1866 (Z. ges. NatWiss., 27: 466) is apparently restricted to this family. For a discussion of the genus see Timmermann, 1959, Zeitr. Parasit., 19: 485.

The genera Naubates, Perineus Procellariphaga have been discussed previously.

PROCELLARIIFORMES

Procellariidae

Fulmarus glacialis (Linnaeus)--Fulmar

Ancistrona vagelli (J. C. Fabricius, 1787)

Pediculus vagelli J. C. Fabricius, 1787. Mantissa Ins.: 369.

Menopon giganteum Rudow, 1869. Z. ges. NatWiss., 27: 403.

Ancistrona gigas Piaget, 1883. Tijdschr. Ent., 26: 152,
pl. 9, fig. 1.

Perineus nigrolimbatus (Giebel, 1874)

Lipeurus nigrolimbatus Giebel, 1874. Insecta Episc.: 233.

Lipeurus mutabilis Piaget, 1880. Les Pediculines: 126,
pl. 27, fig. 1.

Lipeurus varius Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 116, pl. 7, figs. 3 and 4.

Lipeurus celer Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 117, pl. 7, figs. 5 and 6.

Procellariphaga brevifimbriata (Piaget, 1880)

Menopon brevifimbriatum Piaget, 1880. Les Pediculines: 199,
pl. 41, fig. 1.

Menopon numerosum Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 159, pl. 15, fig. 1.

Saemundssonina occidentalis (Kellogg, 1895)

Docophorus occidentalis Kellogg, 1895. Proc. Calif. Acad.
Sci., 6: 89, pl. 3, fig. 7.

Puffinus diomedea (Scopoli)--Cory's Shearwater

Ancistrona vagelli (J. C. Fabricius, 1787)

(Type host: Fulmarus glacialis (Linnaeus))

Halipeurus abnormis (Piaget, 1885)

(Type host: Puffinus gravis (O'Reilly))

Saemundssonina peusi (Eichler, 1949)

Puffinoecus peusi Eichler, 1949. Boll. Soc. Ent. Ital.,
79: 12.

Puffinus creatopus Coues--Pink-footed Shearwater

Ancistrona vagelli (J. C. Fabricius, 1787)
(Type host: Fulmarus glacialis (Linnaeus))

Halipeurus priapulus Timmermann, 1961
(Type host: Puffinus carneipes Gould)

Naubates harrisoni Bedford, 1930
(Type host: Puffinus gravis (O'Reilly))

Trabeculus hexakon (Waterston, 1914)
(Type host: Procellaria aequinoctialis Linnaeus)
Giebelia hexakon Waterston, 1914. Ann. S. Afr. Mus.,
10: 291, pl. 25, figs. 7, 11 and pl. 26, fig. 4.

Puffinus carneipes Gould--Pale-footed Shearwater

Halipeurus priapulus Timmermann, 1961
Halipeurus priapulus Timmermann, 1961. Zeits. Parasit.,
20: 406, fig. 3.

Halipeurus micariproctus Edwards, 1961. J. Parasit.,
47: 148, figs. 3L-7L.

Naubates harrisoni Bedford, 1930
(Type host: Puffinus gravis (O'Reilly))

Puffinus gravis (O'Reilly)--Greater Shearwater

Ancistrona vagelli (J. C. Fabricius, 1787)
(Type host: Fulmarus glacialis (Linnaeus))

Halipeurus abnormis (Piaget, 1885)
Lipeurus abnormis Piaget, 1885. Les Pediculines,
Supplement: 65, pl. 7, fig. 2.

Halipeurus gravis Timmermann, 1961
Halipeurus gravis Timmermann, 1961. Zeitr. Parasit.,
20: 405, fig. 2.

Naubates harrisoni Bedford, 1930
Naubates harrisoni Bedford, 1930. Rep. Vet. Res. S.
Afr., 16: 168, figs. 12, 14 and 16b.

Trabeculus hexakon (Waterston, 1914)
(Type host: Procellaria aequinoctialis Linnaeus)

Puffinus bulleri Salvin--New Zealand Shearwater

Halipeurus thompsoni Edwards, 1961
Halipeurus thompsoni Edwards, 1961, J. Parasit.,
47: 147, figs. 3K-7K.

Naubates harrisoni Bedford, 1930
(Type host: Puffinus gravis (O'Reilly))

Puffinus griseus (Gmelin)--Sooty Shearwater

Ancistrona vagelli (J. C. Fabricius, 1787)
(Type host: Fulmarus glacialis (Linnaeus))

Halipeurus diversus (Kellogg, 1896)

Lipeurus diversus Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 123, pl. 8, figs. 3 and 4.

Lipeurus limitatus Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 124, pl. 8, figs. 5 and 6.

Esthioptherum constrictiventre Pessoa and Guimaraes, 1935.
Ann. Fac. Med. S. Paulo, 2: 313, figs. 6 and 7.

Halipeurus hanaki Balat, 1958. Prace Brn. Zakl. Ceskosl.
Akad. Ved., 30: 415.

Procellariphaga paulula (Kellogg and Chapman, 1899)

Menopon paululum Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 119, pl. 8, fig. 2.

Menopon petulans Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 121, pl. 8, fig. 3.

Trabeculus hexakon (Waterston, 1914)

(Type host: Procellaria aequinoctialis Linnaeus)

Puffinus tenuirostris (Temminck)--Slender-billed Shearwater

Ancistrona vagelli (J. C. Fabricius, 1787)
(Type host: Fulmarus glacialis (Linnaeus))

Halipeurus diversus (Kellogg, 1896)

(Type host: Puffinus griseus (Gmelin))

Trabeculus hexakon (Waterston, 1914)

(Type host: Procellaria aequinoctialis Linnaeus)

Puffinus opisthomelas Coues--Black-vented Shearwater*

Ancistroneura vagelli (J. C. Fabricius, 1787) [Ⓢ]
(Type host: Fulmarus glacialis (Linnaeus))

Halipeurus spadix Timmermann, 1961

Halipeurus spadix Timmermann, 1961. Zeitr. Parasit.,
20: 409, fig. 7.

Halipeurus taxosetus Edwards, 1961. J. Parasit., 47: 145,
figs. 3H-7H.

Naubates harrisoni Bedford, 1930

(Type host: Puffinus gravis (O'Reilly))

Saemundssonina valida (Kellogg and Chapman, 1899)

Docophorus validus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 56, pl. 5, fig. 2.

Trabeculus mirabilis (Kellogg, 1896)

Giebelia mirabilis Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 138, pl. 11, figs. 7-8.

Puffinus l'herminieri Lesson--Audubon's Shearwater

Halipeurus intestatus Timmermann, 1961.

Halipeurus intestatus Timmermann, 1961. Zeitr. Parasit.,
20: 410.

Procellariophaga narboroughi (Kellogg and Kuwana, 1902)

Menopon narboroughi Kellogg and Kuwana, 1902. Proc.
Wash. Acad. Sci., 4: 485, pl. 31, fig. 2.

Saemundssonina minor (Kellogg and Kuwana, 1902)

Docophorus validus minor Kellogg and Kuwana, 1902. Proc.
Wash. Acad. Sci., 4: 460.

Trabeculus mirabilis (Kellogg, 1896)

(Type host: Puffinus opisthomelas (Coues))

* The Mallophaga do not support the A.O.U. position that this is a
subspecies of Puffinus puffinus (Brünnich).

Pterodroma inexpectata (Forster)--Scaled Petrel

Halipeurus consimilis Timmermann, 1960

Halipeurus consimilis Timmermann, 1960. Zeitr. Parasit.,
20: 326, fig. 9.

Naubates pterodromi Bedford, 1930

(Type host: Pterodroma macroptera (Smith))

Naubates pterodromi Bedford, 1930. Rep. Vet. S. Afr., 16: 170,
figs. 10 and 13.

Trabeculus schillingi Rudow, 1866

(Type host: Pterodroma mollis (Gould))

Trabeculus schillingi Rudow, 1866. Z. ges. NatWiss.,
27:467.

Cecalymenus oestrelatae Enderlein, 1917. Zool. Anz.,
49: 243, fig. 2-4.

PROCELLARIIFORMES
Hydrobatidae

The genus Bedfordiella Thompson, 1937 (Ann. Mag. Nat. Hist., (10), 20: 434) is found on this family, but has not been recorded todate from the hosts listed.

The genera Halipeurus, Longimenopon, Philoceanus, and Saemundssonina have been discussed previously.

PROCELLARIIFORMES
Hydrobatidae

Oceanodroma furcata (Gmelin)--Fork-tailed Petrel

Halipeurus pelagicus (Denny, 1842)

(Type host: Hydrobates pelagicus Linnaeus)

Lipeurus pelagicus Denny, 1842. Mon. Anopl. Brit.:
58 and 173, pl. 14, fig. 2.

Nirmus procellariae Denny, 1852. List. Brit. Animals
in Brit. Mus., pt. II, Anoplura: 26. (nn for L. pelagicus
Denny, 1842)

Lipeurus subangusticeps Piaget, 1880. Les Pediculines:
308, pl. 25, fig. 5.

Lipeurus languidus Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 475, pl. 28, fig. 8.

Lipeurus exiguus Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 479, pl. 30, fig. 2.

Philoceanus annuliventris (Uchida, 1917)

Lipeurus annuliventris Uchida, 1917. Annot. Zool. Jap.,
99: 206, fig. 2.

Oceanodroma leucorhoa (Vieillot)--Leach's Petrel

Halipeurus pelagicus (Denny, 1842)

(Type host: Hydrobates pelagicus Linnaeus)

Philoceanus amadoni Timmermann, 1961

(Type host: Loomelania melania Bonaparte)

Saemundssonina thalassodromae (Denny, 1842)

(Type host: Hydrobates pelagicus Linnaeus)

Docophorus thalassidromae Denny, 1842. Mon. Anopl. Brit.:
47 and 103, pl. 2, fig. 6.

Saemundssonina incisa Timmermann, 1950. Fauna Islandica,
2: 7.

Loomelania melania (Bonaparte)--Black Petrel

Halipeurus pelagicus (Denny, 1842)

(Type host: Hydrobates pelagicus (Linnaeus))

Philoceanus amadoni Timmermann, 1961

Philoceanus amadoni Timmermann, 1961. Zeitr. Parasit.
20: 535, figs. 2 and 6.

Halocyptena microsoma Coues--Least Petrel

Halipeurus pelagicus (Denny, 1842)

(Type host: Hydrobates pelagicus Linnaeus)

Oceanites oceanicus (Kuhl)--Wilson's Petrel

Halipeurus pelagicus (Denny, 1842)

(Type host: Hydrobates pelagicus (Linnaeus))

Philoceanus robertsi (Clay, 1940)

Naubates robertsi Clay, 1940. Brit. Graham Land. Exped.,
1934-37, 1: 313, figs. 9c, 10a, and 11b.

PELECANIFORMES
Phaethontidae

The genera Austromenopon and Saemundssonina are not restricted to this family. Both hosts have been collected extensively, and the normal parasites are listed.

For a key to the species of Saemundssonina found on Phaethontidae see Timmermann, 1955, Ann. Mag. Nat. Hist., (12), 8: 516. For a discussion of the species of Austromenopon found on this family see Timmermann, 1954, Bonn. Zool. Beitr., 5: 195.

PELECANIFORMES
Phaethontidae

Phaethon aethereus Linnaeus--Red-billed Tropic-bird

Austromenopon beckii (Kellogg, 1906)
Menopon beckii Kellogg, 1906. Trans. Amer. Ent. Soc.,
32: 322

Saemundssonina phaetona (Osborn, 1890)
Docophorus phaetonus Osborn, 1890. In Howard, Proc.
U. S. Nat. Mus., 12: 189.
Docophorus albemarlensis Kellogg and Kuwana, 1902.
Proc. Wash. Acad. Sci., 4: 465, pl. 28, fig. 5.

Phaethon lepturus Daudin--White-tailed Tropic-bird

Austromenopon miloni (Seguy, 1949)
Menopon miloni Seguy, 1949. Mem. Inst. Sci., Madagascar,
3A: 165, figs. 1-2.

Saemundssonina uppalensis (Rudow, 1870)
Docophorus uppalensis Rudow, 1870. Z. ges. NatWiss.,
35: 455.
Docophorus breviantennatus Piaget, 1880. Les Pediculines:
108, pl. 9, fig. 9.
Philopterus phaetophonus Seguy, 1949. Mem. Inst. Sci.,
Madagascar, 3A: 168, figs. 6-8.

PELECANIFORMES
Pelecanidae

The genus Colpocephalum Nitzsch, 1818 (Germar's Mag. Ent., 3: 298) is found on several orders of hosts. No modern work has been done with the genus.

The genus Pectinopygus Mjöberg, 1910 (Ark. Zool., 6: 95) is found on the families Pelecanidae, Sulidae, Phalacrocoracidae, Anhingidae, and Fregatidae, all of the order Pelecaniformes. For a discussion of the genus see Thompson, 1935, Ann. Mag. Nat. Hist., (10), 16: 148; 1937, (10), 20: 538; 1940, (11), 5: 372 and 429; 1946, (11, 13: 767; and 1947, (11), 14: 317. For a discussion of the species found on Pelecanus, see Clay, 1961, Bull. BM(NH) Ento., 11: 54.

The genus Plagetiella Neumann, 1906 (Bull. Soc. Zool. Fr., 20: 60) is apparently restricted to the families Pelecanidae and Phalacrocoracidae, order Pelecaniformes. Specimens of this genus normally inhabit the inside of the pouch.

PELECANIFORMES
Pelecanidae

Pelecanus erythrorhynchos Gmelin--White Pelican

Colpocephalum unciferum Kellogg, 1896*

Colpocephalum unciferum Kellogg, 1896. Proc. Calif.
Acad. Sci., 6: 140, pl. 12, figs. 1-3.

Pectinopygus tordoffi Elbel and Emerson, 1956

Pectinopygus tordoffi Elbel and Emerson, 1956. Ent.
News, 67: 173, figs. 1-7.

Pectinopygus canadensis Carriker, 1956. Florida Ent.,
39: 131, figs. 82-85.

Piagetiella peralis (Leidy, 1878)

Menopon peralis Leidy, 1878. Proc. Acad. Nat. Sci
Phalad., 1878: 100.

Menopon consanguineum Piaget, 1884. Notes Leyden
Museum., 6: 111.

Menopon ragazzii Picaglia, 1884. Att.
Soc. Nat. Mat., Modena, 2: 105.

Menopon titan impar Kellogg, 1896 (nec Piaget, 1880).
Proc. Calif. Acad. Sci., 6: 165.

Pelecanus occidentalis Linnaeus--Brown Pelican

Colpocephalum unciferum Kellogg, 1896*

Colpocephalum unciferum Kellogg, 1896. Proc. Calif.
Acad. Sci., 6: 140, pl. 12, figs. 1-3.

Pectinopygus occidentalis Thompson, 1947

Pectinopygus occidentalis Thompson, 1947. Ann. Mag.
Nat. Hist. (11), 14: 318, figs. 1-9.

Piagetiella bursaepelecani (Perry, 1876)

Trinotion bursae-pelecani Perry, 1876. Proc.:Lit.
Phi l. Soc. Lpool, 30: lxxx.

Tetrophthalmus chilensis Grosse, 1885, Z. wiss.

Zool., 42: 534, pl. 2, figs. 1, 6, 8, 9, 12, 13, 15, 16, 18-20.

Menopon titan linearis Kellogg, 1896. Proc. Calif.

Acad. Sci., 6: 165, pl. 15, fig. 2.

* Type host has not been designated.

PELECANIFORMES
Sulidae

The genus Eidmaniella Keler, 1938 (Ann. Mus. Zool.
Polon., 13: 81) is known only from the families Sulidae, Phalacrocoracidae,
and Fregatidae, order Pelecaniformes.

The genus Pectinopygus has been discussed previously.

PELECANIFORMES

Sulidae*

Sula dactylatra Lesson--Blue-faced Booby

Pectinopygus jamaicensis Thompson, 1947

Pectinopygus jamaicensis Thompson, 1947. Ann. Mag.
Nat. Hist. (11), 14: 348, figs. 1-8.

Sula leucogaster (Boddaert)--Brown Booby

Eidmaniella sula Tendeiro, 1958

Eidmaniella sula Tendeiro, 1958. Garcia de Orta,
6: 443, figs. 1-2, photo plates 1-4.

Pectinopygus sulae (Rudow, 1869) **

Lipeurus sulae Rudow, 1869. Beitr. Kenntn. Malloph. :43.

Lipeurus annulatus Piaget, 1880. Les Pediculines: 340,
pl. 27, fig. 10.

Lipeurus potens Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 477, pl. XXX, fig. 1.

Lipeurus helleri Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 479, pl. XXX, fig. 3.

Naubates garbei Pessoa and Guimaraes, 1935. Rev. Biol.
Hyg. S. Paulo, 6: 109, figs. 6-11.

Pectinopygus sularum Eichler, 1954. Beitr. Fauna
Perus, 4: 50.

Pectinopygus marianarum Eichler, 1954. Beitr. Fauna
Perus, 4: 50 (nn for "Lipeurus potens var" Uchida, 1918).

* Eidmaniella singularis (Kellogg and Chapman, 1902) is probably found
on a species of Sula.

** Probable synonyms. Only one species of Pectinopygus is found
on Sula leucogaster (Boddaert) and Sula sula Linnaeus, and all forms
listed were supposedly collected from one of these two hosts.

Morus bassanus (Linnaeus)--Gannet

Edimaniella pustulosa (Nitzsch, 1866)

Menopon pustulosum Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 393.

Pectinopygus bassani bassani (O. Fabricius, 1780)

Pediculus bassani O. Fabricius, 1780. Fauna groen-
landica: 218.

Docophorus bassanae Denny, 1842. Mon. Anopl.
Brit.: 48 and 110, pl. 6, fig. 3.

Lipeurus staphylionoides Denny, 1842. Mon. Anopl.
Brit.: 59 and 180, pl. 15, fig. 2.

PELECANIFORMES
Phalacrocoracidae

The genera Eidmaniella, Pectinopygus, and Piagetiella
have been mentioned previously.

PELECANIFORMES
Phalacrocoracidae

Phalacrocorax carbo (Linnaeus)--Great Cormorant

Eidmaniella brevipalpis (Piaget, 1880)

Menopon brevipalpe Piaget, 1880. Les Pediculines:
498, pl. 40, fig. 5.

Menopon sigmoidalis Picaglia, 1885. Atti. Soc. Ital.
Sci. Nat., 28: 87.

Pectinopygus gyricornis (Denny, 1842)

Lipeurus gyricornis Denny, 1842. Mon. Anopl. Brit.:
58 and 167, pl. 15, fig. 1.

Lipeurus longicornis Piaget, 1880. Les Pediculines:
334, pl. 27, fig. 3.

Lipeurus toxoceros Nitzsch, 1886. In Giebel. Z. ges.
NatWiss., 28: 386.

Phalacrocorax auritus (Lesson)--Double-crested Cormorant

Pectinopygus farallonii (Kellogg, 1896)

Nirmus farallonii Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 103, pl. 5, fig. 4.

Phalacrocorax olivaceus (Humboldt)--Olivaceous Cormorant

Eidmaniella eurygaster (Nitzsch, 1866)

Menopon eurygaster Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 393.

Pectinopygus gyroceras (Nitzsch, 1866)

Lipeurus gyroceras Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 386.

Nirmus depressus Rudow, 1869. Beitr. Kenntn. Malloph.: 17.

Piagetiella vigua (Eichler, 1943)

Tetrophthalmus vigus Eichler, 1943. Zool. Anz., 141:
135, fig. 1.

Phalacrocorax penicillatus (Brandt)--Brandt's Cormorant

Eidmaniella kuwani (Kellogg and Chapman, 1902)

Menopon kuwani Kellogg and Chapman, 1902. J. N. Y. Ent.
Soc., 10: 26, pl. 3, fig. 4.

Piagetiella incomposita (Kellogg and Chapman, 1899)

Menopon titan incompositum Kellogg and Chapman, 1899.
Occ. Pap. Calif. Acad. Sci., 6: 123, pl. 8, figs. 4-5.

PELECANIFORMES
Anhingidae

The genus Pectinopygus has been discussed previously.
Extensive collecting should indicate other genera on this host.

PELECANIFORMES
Anhingidae

Anhinga anhinga (Linnaeus)--Anhinga

Pectinopygus anhingae (Peters, 1935)

Degeeriella anhingae Peters, 1935. Proc. Ent. Soc.
Wash., 37: 143, figs. 3-4.

PELECANIFORMES
Fregatidae

The genera Colpocephalum, Eidmaniella, and Pectinopygus have been discussed previously. The parasites of this host are well-known and extensive collections indicate that all normal parasites are listed.

PELECANIFORMES
Fregatidae

Fregata magnificens Mathews--Magnificent Frigate-bird

Colpocephalum spineum Kellogg, 1899

Colpocephalum spineum Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 38, pl. 4, fig. 1.

Eidmanella aurifasciata (Kellogg, 1899)

Menopon aurifasciatum Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 43, pl. 4, fig. 5.

Pectinopygus fregatiphagus (Eichler, 1943)

Lipeurus gracilicornis major Kellogg, 1899 (nec Piaget, 1880).
Occ. Pap. Calif. Acad. Sci., 6: 30, pl. 3, fig. 3.

Epifregata fregatiphaga Eichler, 1943. Zool. Anz., 141: 59.
(nn for L. major Kellogg, 1899).

CICONIIFORMES
Ardeidae

The genus Ardeicola Clay, 1936 (Proc. Zool. Soc. London, 1936: 615) is found on all families of Ciconiiformes except Phoenicopteridae.

The genus Ciconiphilus Bedford, 1939 (Onderstepoort J. Vet. Sci., 12: 141) is found on the orders Ciconiiformes and Anseriformes.

The genus Comatomenopon Uchida, 1920 (Annot. Zool. Jap., 9: 648) apparently is restricted to this family. Members of this genus are seldom collected. For a discussion of the genus see Emerson, 1957, Ann. Mag. Nat. Hist., (12), 10: 710.

The genera Ardeiphagus Carriker, 1949 (Rev. Brasil Biol., 9: 307) and Ardeiphilus Bedford, 1939 (Onderstepoort J. Vet. Sci., 12: 139) are found on this family elsewhere, and with better collecting might be found in North America.

Mr. Tuff (Texas A and M College) is reviewing the Mallophaga found on North American hosts of the order Ciconiiformes.

CICONIIFORMES
Ardeidae*

Ardea herodias Linnaeus--Great Blue Heron

Ardeicola cruscula Carriker, 1960

Ardeicola cruscula Carriker, 1960. *Novedades Colombianas*, 1 (5): 318, fig. 1.

Florida caerulea (Linnaeus)--Little Blue Heron

Ardeicola florida Carriker, 1960.

Ardeicola florida Carriker, 1960. *Novedades Colombianas*, 1 (5): 318, fig. 2.

Bubulcus ibis (Linnaeus)--Cattle Egret

Ardeicola gaibagla Ansari, 1947

Ardeicola gaibagla Ansari, 1947. *Proc. Nat. Inst. Sci. India*, 13: 256, fig. 1.

Ciconiphilus doriabagla (Ansari, 1951)

Colpocephalum tochioux minor Plaget, 1885 (*nec* 1880). *Les Pediculines*, Supplement: 128.

Pseudocolopocephalum doriabagla Ansari, 1951. *Proc. Nat. Inst. Sci. India*, 17: 154, figs. 11 a-f.

Comatomenopon ibis Emerson, 1957

Comatomenopon ibis Emerson, 1957. *Ann. Mag. Nat. Hist.*, (12) 10: 711, fig. 3.

* All forms of Ciconiphilus found on this family are probably not more than subspecies of Ciconiphilus decimfasciatus (Boisduval and Lacordaire, 1835) *Faune Ent. Environs Paris*: 123. -- Type host: Ardea cinerea Linnaeus.

Casmerodius albus (Linnaeus)--Common Egret

Ardeicola albulus Eichler, 1948

Ardeicola albulus Eichler, 1948. Vögel der Heimat.,
no. 6: 107, figs. 2-3.

Ciconiphilus obscurus (Giebel, 1874)

Colpocephalum obscurum Giebel, 1874. Insecta Epizoa: 273.

Menopon sulcatum Piaget, 1880. Les Pediculines: 485,
pl. 39, fig. 7.

Colpocephalum laticeps Kellogg, 1896. Proc. Calif. Acad.
Sci. 6: 149, pl. 12, fig. 8.

Colpocephalum veratrum Kellogg, 1910, Wiss. Ergebn.
Schwed. Zool. Exped. Kilimanjaro, 3, abt. 15: 52,
pl. 7, fig. 9.

Nycticorax nycticorax (Linnaeus)--Black-crowned Night Heron

Ardeicola goisangi Uchida, 1953

Ardeicola goisagi Uchida, 1953. Iconographia Insectorum Japonicorum, Tokyo: 109, fig. 269.

Ciconiphilus nyctardis (Denny, 1842)

Colpocephalum nyctarde Denny, 1842. Mon. Anopl.

Brit: 199 and 215, pl. 20, fig. 9.

Colpocephalum tamamurensis Uchida, 1926. J. Coll. Agri. Tokyo, 9: 37, fig. 13.

Botaurus lentiginosus (Rackett)--American Bittern

Ardeicola botauri (Osborn, 1896)

Lipeurus botauri Osborn, 1896. Bull. U. S. Bur. Ent. (n.s.), 5: 234.

CICONIIFORMES
Ciconiidae

This host has been collected extensively and all of the parasites are well known.

The genera Ardeicola, Ciconiphilus and Colpocephalum have been mentioned previously. The genus Neophiloptyerus Cummings, 1916, (Proc. Zool. Soc. Lond., 1916: 660) is represented in North America by only one species.

CICONIIFORMES
Ciconiidae

Mycteria americana Linnaeus--Wood Ibis

Ardeicola loculator (Giebel, 1874)

Lipeurus linearis Rudow, 1869 (nec Nitzsch, 1866).

Beitr. Kenntn. Malloph. : 35.

Lipeurus loculator Giebel, 1874. Insecta Epizoa: 228.

Ciconiphilus maculipes (Giebel, 1874)

Menopon maculipes Giebel, 1874. Insecta Epizoa: 298.

Menopon tantali Giebel, 1874. Insecta Epizoa: 298.

(nn for M. maculipes Giebel, 1874)

Colpocephalum scalariforme Rudow, 1866.

Colpocephalum scalariforme Rudow, 1866. Z. ges. NatWiss.,
27: 471.

Neophiloptyerus heteropygus (Nitzsch, 1874)

Docophorus heteropygus Nitzsch, 1874. In Giebel, Insecta
Epizoa: 99.

Neophiloptyerus travassosi Pessoa and Guimaraes, 1938.

Livro. Jubil. Travassos, 3: 385, figs. 1-4.

CICONIIFORMES
Threskiornithidae

The genera Ardeicola, Ciconiphilus, and Colpocephalum have been mentioned previously.

The genus Ibidoecus Cummings, 1916 (Proc. Zool. Soc. Lond., 1916: 663) is also found on the family Aramidae, order Gruiformes. For a discussion of the genus see Carriker, 1947, Bol. Ent. Venezol., 6: 111.

The genus Plegadiphilus Bedford, 1939 (Onderstepoort J. Vet. Sci., 12: 138) is not well-known, but is apparently restricted to this family.

CICONIIFORMES
Threskiornithidae

Plegadis falcinellus (Linnaeus)--Glossy Ibis

Ardeicola raphidius (Nitzsch, 1866)

Lipeurus raphidius Nitzsch, 1866. In Giebel
Z. ges. NatWiss., 28: 384.

Lipeurus argentinus Kellogg, 1906. J. N. Y. Ent.
Soc., 14: 46, pl. 2, fig. 2.

Ardeicola guaraunae Eichler, 1943. Mem. Estud. Mus.
Coimbra, no. 140: 1, fig. 1.

Ardeicola hoactli Carriker, 1960. Novedades Colombianas,
1 (5): 319, fig. 3.

Ciconiphilus blagoweschenskii (Dubinin, 1938)

Ferribia blagoweschenskii Dubinin, 1938. Trav.
Reserve Etat. Astrakhan, 2: 182, fig.

Colpocephalum leptopygos Nitzsch, 1874

Colpocephalum leptopygos Nitzsch, 1874. In Giebel,
Insecta Epizoa: 273.

Ferribia gracile Dubinin, 1938. Trav. Reserve Etat.
Astrakhan, 2: 184, fig. 14.

Liothella humboldti Eichler, 1954. Beitr. Fauna Perus
4: 47, fig. 31.

Ibidoecus bisignatus (Nitzsch, 1866)

Docophorus bisignatus Nitzsch, 1866. In Giebel.
Z. ges. NatWiss., 28: 362.

Plegadiphilus plegadis (Dubinin, 1938)

Menopon plegadis Dubinin, 1938. Trav. Reserve Etat.
Astrakhan, 2: 178, fig.

Plegadis chihi (Vieillot)--White-faced Ibis

Mallophaga from this host apparently cannot be separated from
those found on Plegadis falcinellus (Linnaeus), and all are
listed under that host.

Eudocimus albus (Linnaeus)--White Ibis

Ardeicola elongata Carriker, 1960

Ardeicola elongata Carriker, 1960. *Novedades Colombianas*, 1 (5): 321, fig. 8.

Colpocephalum fusconigrum Giebel, 1874

Colpocephalum fusconigrum Giebel, 1874. *Insecta Epizoa*: 274.

Ibidoecus bimaculatus (Mjöberg, 1910)

Docophorus bimaculatus Mjöberg, 1910. *Ark. Zool.*, 6: 125, figs. 70-72.

Flegadiphilus plegadis (Dubinin, 1938)

(Type host: Flegadis falcinellus Linnaeus)

Ajaia ajaia (Linnaeus)--Roseate Spoonbill

Ardeicola ajajae Carriker, 1960

Ardeicola plataleae ajajae Carriker, 1960. *Nov. Cien. Mus. Hist. Nat. LaSalle*, No. 28: 50, fig. 51-53.

Colpocephalum ajajae Ewing, 1930

Colpocephalum ajajae Ewing, 1930. *Proc. Biol. Soc. Wash.*, 43: 126.

Ibidoecus iberoamericanus Eichler, 1943.

Ibidoecus iberoamericanus Eichler, 1943. *Mem. Estud. Zool. Mus. Univ. Coimbra.*, no. 140: 5.

Ibidoecus ajajus Carriker, 1947. *Bol. Ent. Venezol.*, 6: 118, figs. 1-3.

CICONIIFORMES
Phoenicopteridae

The parasites of the American Flamingo are not well known.

The parasites of Flamingos elsewhere indicate that the genera found on the Anseriformes are also found on this family.

ANSERIFORMES
Anatidae

The genus Acidoproctus Piaget, 1878 (Tijdschr. Ent., 21: 178) is rarely collected and distribution on the Anatidae is not well-known.

The genus Anaticola Clay, 1936 (Proc. Zool. Soc. Lond., 1936: 617) is widely distributed on the species of host of this family. No worthwhile work has been done of the genus.

The genus Anatoecus Cummings, 1916 (Proc. Zool. Soc. Lond., 1916: 653) is widely distributed on the species of host of this family. Normally, each species of host has two species of parasites. Very little work has been done on the genus. The only worthwhile discussion is that of Keler, 1960, Zeitr. Parasit., 20: 207.

The genus Ciconiphilus has been mentioned previously. Collections have been rare, so the distribution on the Anatidae is not well-known.

The genus Holomenopon Eichler, 1941 (Stettin. Ent. Ztg., 102: 125) is rather common on the Anatidae, but no worthwhile work has been done on the genus.

The genus Ornithobius Denny, 1842 (Mon. Anopl. Brit. : 183) is known only from the Swans, Geese, and Brants. No worthwhile work has been done on this genus.

The genus Trinoton Nitzsch, 1818 (Germar's Mag. Ent., 3: 300) is widely distributed on the species of host of this family. No worthwhile work has been done on this genus.

CICONIIFORMES
Phoenicopteridae

Phoenicopterus ruber Linnaeus--American Flamingo

Anaticola phoenicopteri candidus (Rudow, 1869)

Lipeurus candidus Rudow, 1869. Beitr. Kenntn.
Malloph.: 39.

ANSERIFORMES

Anatidae

Cygnus olor (Gmelin)--Mute Swan

Anatoecus penicillatus Keler, 1960

Anatoecus penicillatus Keler, 1960. Zeitr. Parasit.,
20: 235.

Ornithobius bucephalus (Giebel, 1874)

Lipeurus bucephalus Giebel, 1874. Insecta Epizoa: 239.

Trinoton cygni cygni Eichler, 1943

Trinoton anserinum cygni Eichler, 1943. Stettin.
Ent. Ztg., 104: 97, figs. 3-5.

Olor columbianus (Ord)--Whistling Swan

Anatoecus cygni emersoni Keler, 1960

Anatoecus cygni emersoni Keler, 1960. Zeitr. Parasit.,
20: 233.

Ornithobius cygni (Linnaeus, 1758)

(Type host: Cygnus cygnus (Linnaeus))

Pediculus cygni Linnaeus, 1758. Syst. Nat., ed. 10: 612.

Ornithobius cygnorum Vallenhoven, 1860. Natur. Hist.

Nederland. 1: pl. 1, fig. 4.

Metepeuron punctatum Rudow, 1870. Z. ges. NatWiss.,
36: 139.

Olor buccinator Richardson--Trumpeter Swan

"Anaticola pallidus" (Piaget, 1880)

Lipeurus squalidus pallida Piaget, 1880 (nec Giebel, 1866).
Les Pediculines: 346.

Anatoecus cygni cygni (Denny, 1842)

(Type host: Cygnus bewickii Yarrell)

Docophorus cygni Denny, 1842. Mon. Anopl. Brit.: 46
and 95, pl. 1, fig. 1.

Ornithobius cygni (Linnaeus, 1758)

(Type host: Cygnus cygnus Linnaeus)

Branta canadensis (Linnaeus)--Canada Goose

Ornithobius goniopleurus Denny, 1842

Ornithobius goniopleurus Denny, 1842. Mon. Anopl. Brit.:
60 and 184, pl. 23, fig. 2.

Ornithobius astromarginatus Denny, 1842. Mon. Anopl. Brit.:
60 and 185, pl. 23, fig. 3.

Branta leucopsis (Bechstein)--Barnacle Goose

Anatoecus dentatus brunneopygus (Mjöberg, 1910)

Docophorus brunneopygus Mjöberg, 1910. Ark. Zool.,
6: 130, fig. 73.

Ornithobius hexophthalmus (Nitzsch, 1861)

Lipeurus hexophthalmus Nitzsch, 1861. In Giebel,
Z. ges. NatWiss., 17: 528.

Ornithobius klinkowstroemi Mjöberg, 1910. Ark. Zool.,
6: 97, pl. 1, figs. 1-2.

Anser albifrons (Scopoli)--White-fronted Goose

Anaticola anseris serratus (Nitzsch, 1866)

Lipeurus serratus Nitzsch, 1866. In Giebel, Z. ges.
Nat Wiss., 28: 385.

Anatoecus icterodes brevimaculatus (Giebel, 1874)

Docophorus brevimaculatus Giebel, 1874. Insecta Epizoa: 114

Trinoton anserinum squalidum Denny, 1842

Trinoton squalidum Denny, 1842. Mon. Anopl. Brit.:
202 and 235, pl. 22, fig. 3.

Anser anser "domestica"--Domestic Goose

Anaticola anseris anseris (Linnaeus, 1758)

Pediculus anseris Linnaeus, 1758. Syst. Nat., ed. 10: 612.

Philopterus jejunos Nitzsch, 1818. Germar's Mag. Ent., 3: 292. (nn for P. anseris Linnaeus, 1758)

Ornithobius anseris Gurlt, 1842. Mag. ges. Thierheilk., 8: 426, pl. 4, figs. 12-13.

Lipeurus bishoppi McGregor, 1717. Psyche, 24: 111, pl. 6., figs. 2 and 4.

Esthiopterum anseris domestici Wundrig, 1936. Zool. Jb. Abt. 2, 62: 84, fig. 51.

Anatoecus icterodes adustus (Nitzsch, 1874)

Docophorus adustus Nitzsch, 1874. In Giebel, Insecta Epizoa; 113.

Ciconiphilus pectiniventris (Harrison, 1916)

Menopon pectinatum Neumann, 1912 (nec Osborn, 1902). Arch. Parasit., Paris, 15: 368, fig. 15.

Colpocephalum pectiniventre Harrison, 1916. Parasit., 9: 53. (nn for M. pectinatum Neumann, 1912).

Colpocephalum pectiniventre parvum Blagoveshtchensky, 1948. Mag. Parasit., Leningr., 10: 269, fig. 7.

Ornithocius mathisi (Neumann, 1912)

Metopeuron mathisi Neumann, 1912. Arch. Parasit., Paris, 15: 382, fig. 29.

Trinoton anserinum anserinum (J. C. Fabricius, 1805)

Pediculus anserinus J. C. Fabricius, 1805. Syst. Antliatorum: 345.

Pediculus anseris Sulzer, 1776 (nec Linnaeus, 1758). Abgek. Gesch. Insekten: 241, pl. 29, fig. 4.

Liotheum conspurcatum Nitzsch, 1818. Germar's Mag. Ent., 3: 300. (nn for P. anseris Sulzer, 1776)

Trinoton continuum Piaget, 1880. Les Pediculines: 591.

Dendrocygna autumnalis (Linnaeus)--Black-bellied Tree-duck

Acidoproctus hopkinsi mexicanus Carriker, 1954

Acidoproctus hopkinsi mexicanus Carriker, 1954. Florida Ent., 37: 191, figs. 8-9.

Anatoecus dentatus autumnalis Carriker, 1956

Anatoecus autumnalis Carriker, 1956. Florida Ent., 39: 126, figs. 73-75.

Chen hyperborea (Pallas)--Snow Goose

"Anatoecus icterodes emersoni" Keler, 1960

Anatoecus icterodes emersoni Keler, 1960. Zeitr.
Parasit., 20: 243 (nec p. 233).

Anatoecus icterodes pallidus Keler, 1960

Anatoecus icterodes pallidus Keler, 1960.
Zeitr. Parasit., 20: 246.

Dendrocygna bicolor (Vieillot)--Fulvous Tree-duck

Anaticola chaetodens Eichler, 1954

Anaticola chaetodens Eichler, 1954. Zool. Anz.,
152: 33, fig. 2e.

Anas platyrhynchos Linnaeus--Mallard

Anaticola crassicornis crassicornis (Scopoli, 1763)

Pediculus crassicornis Scopoli, 1763. Ent. Carniolica: 383.

Pediculus anatis Schrank, 1781. Enum. Ins. Austr.

Indig.: 503.

Pediculus anatis J. C. Fabricius, 1794. Ent. Syst.

Suppl.: 571.

Lipeurus squalidus Nitzsch, 1818. Germar's Mag. Ent.,

3: 292. (nn for *P. anatis* J. C. Fabricius, 1794)

Anaticola zunkeri Keler, 1937. Arb. morph. tax. Ent.

Berlin-Dahlem, 4: 318.

Anatoecus dentatus dentatus (Scopoli, 1763)

Pediculus dentatus Scopoli, 1763. Ent. Carniolica: 383.

Anatoecus icterodes boschadis Keler, 1960.

Anatoecus icterodes boschadis Keler, 1960. Zeitr.

Parasit., 20: 253.

Holomenopon transvaalense (Bedford, 1920)

Menopon africanum transvaalensis Bedford, 1920. Rep. Vet.

Res. S. Africa, 7-8: 716.

Holomenopon maxbeieri Eichler, 1954. Mh. Vet. Med.,

9: 284, figs. 1-5.

Trinoton querquedulae ludwigfreundi Eichler, 1954.

Trinoton querquedulae ludwigfreundi Eichler, 1954.

Mh. Vet. Med., 9: 409, figs. 1-5.

Anas strepera Linnaeus--Gadwall

Anaticola crassicornis depuratus (Nitzsch, 1866)

Lipeurus depuratus Nitzsch, 1866. In Giebel, Z. ges.

NatWiss., 28: 385.

Anas acuta Linnaeus--Pintail

Anaticola crassicornis dafilensis Carriker, 1956

Anaticola dafilensis Carriker, 1956. Florida Ent.,
39: 130, figs. 79-81.

Holomenopon clypeilargum Eichler, 1943

Holomenopon clypeilargum Eichler, 1943. Mitt. Münch.
Ent. Ges., 33: 236, figs. 3-4.

Trinoton querquedulae luridum Burmeister, 1838

Trinoton luridum Burmeister, 1838. Handb. Ent., 2: 441.

Anas crecca Linnaeus--Common Teal

Anaticola crassicornis sordidus (Giebel, 1866)

Lipeurus sordidus Giebel, 1866. Z. ges. NatWiss.,
28: 385.

Columbicola ewingi Qadri, 1935. Zeitr. Parasit.,
8: 233, fig. 6.

Holomenopon leucoxanthum (Burmeister, 1838)

Menopon leucoxanthum Burmeister, 1838. Handb. Ent.,
2: 440.

Trinoton querquedulae querquedulae (Linnaeus, 1758)

Pediculus querquedulae Linnaeus, 1758. Syst. Natr.,
ed. 10: 612.

Trinoton pygmaeum Kolenati, 1846. Melet. Ent., 5:
138, pl. 19, fig. 5.

Marcea penelope (Linnaeus)--European Widgeon

Anaticola crassicornis penelopes (T. Müller, 1927)

Lipeurus penelopes T. Müller, 1927. Ber. westpreuss.
bot.-zool. Ver., 49: 25.

Holomenopon marecae (Blagoveshtchensky, 1940)

Menopon leucoxanthum marecae Blagoveshtchensky, 1940.
Mag. Parasit., Leningr., 8: 27 and 77, fig. 2.

Trinoton querquedulae spinosum Piaget, 1880

Trinoton spinosum Piaget, 1880. Les Pediculines:
596, pl. 49, fig. 6.

Spatula clypeata (Linnaeus)--Shoveller

Anaticola crassicornis hopkinsi Eichler, 1954

Anaticola hopkinsi Eichler, 1954. Zool. Anz., 152: 33,
fig. 2d.

Anatoecus dentatus ferrugineus (Giebel, 1874)

Docophorus ferrugineus Giebel, 1874. Insecta Epizoa: 114.

Anatoecus icterodes tendeiroi Keler, 1960

Anatoecus icterodes tendeiroi Keler, 1960. Zeitr.
Parasit., 20: 270.

Holomenopon setigerum (Blagoveshtchensky, 1948)

Menopon setigerum Blagoveshtchensky, 1948. Mag.
Parasit., Leningr., 10: 260, fig. 1.

Aix sponsa (Linnaeus)--Wood Duck

Anaticola crassicornis lepidotus (Rudow, 1869)

Lipeurus lepidotus Rudow, 1869. Beitr. Kenntn.
Malloph. : 36.

Aythya americana (Eyton)--Redhead

Anatoecus icterodes simillimus Keler, 1960

Anatoecus icterodes simillimus Keler, 1960. Zeitr.
Parasit., 20: 275.

Aythya ferina (Linnaeus)--Common Pochard

Anaticola crassicornis fuligulae (T. Müller, 1927)
Lipeurus fuligulae T. Müller, 1927. Ber. westpreuss.
bot.-zool. Ver., 49: 23.

Anatoecus icterodes difficilis Cummings, 1916
Anatoecus difficilis Cummings, 1916. Proc. Zool. Soc.
Lond., 1916: 654 and 659.

Holomenopon nyrocae (Blagoveshtchensky, 1940)
Monopon nyrocae Blagoveshtchensky, 1940. Mag. Parasit.,
Leningr., 8: 25 and 76, fig. 1.
Holomenopon hanslohrli Eichler, 1958. Nachr. Natr. Mus.
Aschaffenburg, 58: 62, figs. 4-5.

Trinoton querquedulae nyrocae Eichler, 1943
Trinoton nyrocae Eichler, 1943. Stettin. Ent. Ztg.,
104: 97, figs. 6-7.

Aythya valisineria (Wilson)--Canvasback

Acidoproctus kelloggi (Carriker, 1902)
Akidoproctus kelloggi Carriker, 1902. J. N. Y. Ent.
Soc., 10: 228, pl. 22, figs. 1-2.

Aythya affinis (Eyton)--Lesser Scaup

Anaticola crassicornis cornicephalus (Zavaleta, 1946)
Esthiopterum cornicephalum Zavaleta, 1946. Ann. Inst.
Biol. Mex., 16: 445, fig. 1.

Anatoecus dentatus affinis Keler, 1960
Anatoecus dentatus affinis Keler, 1960. Zeitr.
Parasit., 20: 285.

Anatoecus icterodes marcui Keler, 1960
Anatoecus icterodes marcui Keler, 1960. Zeitr.
Parasit., 20: 284.

Aythya fuligula (Linnaeus)--Tufted Duck

Anatoecus dentatus fuligulae Keler, 1960

Anatoecus dentatus fuligulae Keler, 1960. Zeitr.
Parasit., 20: 280.

Anatoecus icterodes obtusus (Giebel, 1866)

Docophorus obtusus Giebel, 1866. Z. ges. NatWiss.,
28: 363.

Bucephala islandica (Gmelin)--Barrow's Golden-eye

Anaticola crassicornis clangulae (O. Fabricius, 1780)

Pediculus clangulae O. Fabricius, 1780. Fauna
Groenlandica: 217.

Clangula hyemalis (Linnaeus)--Oldsquaw

"Anaticola crassicornis frater" (Giebel, 1874)

Lipeurus frater Giebel, 1874. Insecta Epizoa:
242 (nec p. 210).

Anatoecus dentatus clangulus Emerson, 1953

Anatoecus clangulus Emerson, 1953. J. Kansas
Ent. Soc., 26: 136, figs. 7 and 9.

Anatoecus icterodes natatorum (Rudow, 1869)

Docophorus natatorum Rudow, 1869. Beitr. Kenntn.
Malloph.: 15.

Polysticta stelleri (Pallas)--Stellar's Eider

Anatoecus dentatus latiusculus Keler, 1960

Anatoecus dentatus latiusculus Keler, 1960. Zeitr.
Parasit., 20: 293.

Somateria mollissima (Linnaeus)--Common Eider

Anaticola crassicornis rubromaculatus (Rudow, 1869)
Lipeurus rubromaculatus Rudow, 1869. Beitr. Kenntn.
Malloph.: 43.

Anatoecus dentatus somateriae Keler, 1960.
Anatoecus dentatus somateria Keler, 1960. Zeitr.
Parasit., 20: 291.

Anatoecus icterodes mollissimae Keler, 1960
Anatoecus icterodes mollissimae Keler, 1960. Zeitr.
Parasit., 20: 289.

Somateria spectabilis (Linnaeus)--King Eider

"Anaticola crassicornis gracilis" (Giebel, 1874)
Lipeurus gracilis Giebel, 1874 (nec Packard, 1870).
Insecta Epizoa: 242.

Melanitta fusca (Linnaeus)--Velvet Scoter

Anaticola crassicornis punctulatus (Rudow, 1869)
Lipeurus punctulatus Rudow, 1869. Beitr. Kenntn.
Malloph.: 35.

Anatoecus dentatus roesleri Eichler, 1946
Anatoecus dentatus roesleri Eichler, 1946. Tijdschr.
Ent. 87: 76.

Melanitta deglandi (Bonaparte)--White-winged Scoter

Anaticola crassicornis constrictus (Kellogg, 1896)*
Lipeurus constrictus Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 125, pl. 8, figs. 7-8.

Holomenopon loomisii (Kellogg, 1896)
Menopon loomisii Kellogg, 1896. Proc. Calif. Acad. Sci.
6: 162, pl. 15, fig. 6.

* Type host has not been designated.

Melanitta perspicillata (Linnaeus)--Surf Scoter

Anaticola crassicornis constrictus (Kellogg, 1896)*

Lipeurus constrictus Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 125, pl. 8, figs. 7-8.

Oidemia nigra (Linnaeus)--Common Scoter

Anaticola crassicornis angustolimbatus (Giebel, 1866)

Lipeurus angustolimbatus Giebel, 1866. Z. ges. NatWiss.,
28: 386.

Holomenopon lunarium (Rudow, 1869)

Menopon lunarium Rudow, 1869. Z. ges. NatWiss.,
34: 402.

Trinoton quequedulae minus Osborn, 1896

Trinoton minor Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 248.

Mergus merganser Linnaeus--Common Merganser

Anatoecus dentatus dentatus (Scopoli, 1763)

(Type host: Anas platyrhynchos Linnaeus)

Anatoecus icterodes bipunctatus (Giebel, 1874)

Docophorus bipunctatus Giebel, 1874. Insecta Epizoa: 116.

* Type host has not been designated.

Mergus serrator Linnaeus--Red-breasted Merganser

Anaticola crassicornis mergiserrati (DeGeer, 1778)

Ricinus mergi-serrati DeGeer, 1778. Mem. Hist. Inst.,
7: 78, pl. 4, fig. 13.

Pediculus mergi J. C. Fabricius, 1781. Spec. Ins.,
2: 480. (nn for R. mergi-serrati DeGeer, 1778).

Lipeurus temporalis Nitzsch, 1818. Germar's Mag.
Ent., 3: 292. (nn for "R. mergi DeGeer").

Anatoecus icterodes icterodes (Nitzsch, 1818)

Docophorus icterodes Nitzsch, 1818. Germar's Mag.
Ent., 3: 290.

Pediculus mergi Guerin, 1818 (nec J. C. Fabricius, 1781).
Bonaterre's Encyc. Method., pt. 24: 128, pl. 254, fig. 2.

Nirmus fuligulae Denny, 1852. List. Brit. Animals
in Brit. Mus., pt. 2 Anoplura: 13. (nn for D. icterodes
Nitzsch, 1818).

Trinoton querquedulae mergi Eichler, 1943

Trinoton querquedulae mergi Eichler, 1943. Stettin.
Ent. Ztg., 104: 100, fig. 9.

FALCONIFORMES
Cathartidae

The genus Colpocephalum has been mentioned previously.

The genus Cuculiphilus Uchida, 1926 (J. Coll. Agri. Tokyo, 9: 47) is also found on the family Cuculidae, order Cuculiformes. For a discussion of the species found on this family, see Eichler, 1948, Entomologist, 81: 251. Eichler considered this group to be Falcophilus which is a synonym of Cuculiphilus.

The genus Falcolipeurus Bedford, 1931 (Rep. Vet. Res. S. Afr., 17: 290) is found on the larger hosts of Falconiformes. The genus is under revision by Dr. Tandan (University of Lucknow, India).

The genus Laemobothrion is mentioned previously. No comprehensive work on the genus has been published.

FALCONIFORMES
Cathartidae

Cathartes aura (Linnaeus)--Turkey Vulture

Colpocephalum kelloggi Osborn, 1902

Colpocephalum kelloggi Osborn, 1902. Ohio Nat., 2: 175,
pl. 2, fig. 2.

Cuculiphilus alternatus (Osborn, 1902)

Menopon alternatum Osborn, 1902. Ohio Nat.,
2: 175, pl. 2, fig. 1.

Falcolipeurus marginalis (Osborn, 1902)

Lipeurus marginalis Osborn, 1902. Ohio Nat., 2: 176.
Lipeurus assessor minor Kellogg and Paine, 1910 (nec
Plaget, 1880). Ent. News, 21: 460.

Laemobothrion canalense Eichler, 1942

Laemobothrion delogramma Kellogg and Paine, 1910
(nec Carriker, 1903). Ent. News, 21: 460.

Laemobothrion canalense Eichler, 1942. Zool. Anz.,
139: 31. (nn for L. delogramma Kellogg and Paine, 1910).

Coragyps atratus (Bechstein)--Black Vulture

Colpocephalum foetens (Eichler, 1954)

Neocolpocephalum foetens Eichler, 1954. Beitr. Fauna
Perus, 4: 44, figs. 27-29.

Cuculiphilus coragypsis (Eichler, 1948)

Falcophilus coragypsis Eichler, 1948. Entomologist,
81: 251, figs. 1-7.

Laemobothrion museihamburgi Eichler, 1954

Laemobothrion museihamburgi Eichler, 1954. Beitr.
Fauna Perus., 4: 34, figs. 10-11.

FALCONIFORMES
Accipitridae

The genus Acutifrons Guimaraes, 1942 (Pap. Avulsos Dep. Zool. S. Paulo, 2: 235) is not well-known, but appears to be found on the hosts with a neotropical distribution.

The genus Craspedorrhynchus Keler, 1938 (Arb. Morph. Tax. Ent. Berlin-Dahlem, 5: 239) is only known from hosts of this family. Better collecting might indicate it's presence on the family Falconidae. For a discussion of the genus, see Emerson, 1960, Proc. Biol. Soc. Wash., 73: 39.

The genus Degeeriella Neumann, 1906 (Bull. Soc. Zool. Fr., 20: 60) is also found on the family Falconidae. For a discussion of the genus see Clay, 1958, Bull. Brit. Mus. (N.H.), Ent., 7: 123.

The genus Kurodaia Uchida, 1926 (J. Coll. Agri. Tokyo, 9: 50) is also found on the family Falconidae, and the order Strigiformes.

The genera Colpocephalum, Falcolipeurus and Laemobothrion were mentioned previously.

The species of Colpocephalum and Kurodaia found on this family are being reviewed by Dr. Price (University of Minnesota).

FALCONIFORMES
Accipitridae

Elanus leucurus (Vieillot)--White-tailed Kite

Colpocephalum osborni Kellogg, 1896

Colpocephalum osborni Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 521, pl. 71, figs. 2-3.

Degeeriella elani Tendeiro, 1955

(Type host: Elanus caeruleus (Desfontaines))

Degeeriella elani Tendeiro, 1955. Bol. Cult. Guine Port., 9: 598, figs. 36-37 and photographs 17-18.

Elanoides forficatus (Linnaeus)--Swallow-tailed Kite

Degeeriella guimaraesi Clay, 1958

Degeeriella guimaraesi Clay, 1958. Proc. R. Ent. Soc. Lond. (B) 27: 2, pl. 1, figs. 1, 4, and tf. 1, 4, 5, 6, 10, 12 and 15

Kurodaia fulvofasciata (Piaget, 1880)

(Type host: Buteo buteo (Linnaeus))

Menopon fulvofasciatum Piaget, 1880. Les .ediculines: 492, pl. 11, fig. 9.

Kurodaia tagatoi Eichler, 1952. Zool. Anz., 149: 258, figs. 12-14.

Rostrhamus sociabilis (Vieillot)--Everglade Kite

Craspedorrhynchus obscurus (Giebel, 1874)

Docophorus obscurus Giebel, 1874. Insecta Epizoa: 72.

Falcolipeurus quadriguttatus (Giebel, 1874)

Lipeurus quadriguttatus Giebel, 1874. Insecta Epizoa: 212

Accipiter gentilis (Linnaeus)--Goshawk

Craspedorrhynchus haematopus (Scopoli, 1763)

Pediculus haematopus Scopoli, 1763. Ent. Carniolica: 381

Pediculus strigis J. C. Fabricius, 1775 (nec Pontoppidan, 1763). Syst. Ent.: 806 (nn for P. haematopus Scopoli, 1763)

Docophorus platyrhynchus Nitzsch, 1818. Germar's Mag.

Ent. 3: 290. (nn for P. haematopus Scopoli, 1763)

Pediculus tinnunculi Latreille, 1818 (nec Linnaeus, 1758).

In Guerin, Encyc. Meth.: 128, pl. 254, fig. 1.

Docophorus asturinus Mjöberg, 1910. Ark. Zool. 6: 112, pl. 1, figs. 6-7.

Degeeriella nesus vagans (Giebel, 1874)

Nirmus vagans Giebel, 1874. Insecta Epizoa: 126.

Accipiter striatus Vieillot--Sharp-skinned Hawk

Degeeriella nesus nesus (Giebel, 1866)

(Type host: Accipiter nesus (Linnaeus))

Nirmus nesus Giebel, 1866. Z. ges. NatWiss., 28: 364.

Accipiter cooperii (Bonaparte)--Cooper's Hawk

Craspedorrhynchus subhaematopus Emerson, 1960

Craspedorrhynchus subhaematopus Emerson, 1960. Proc. Biol. Soc. Wash., 73: 39, figs. 5-8.

Degeeriella nesus vagans (Giebel, 1874)

(Type host: Accipiter gentilis (Linnaeus))

Buteo jamaicensis (Gmelin)--Red-Tailed Hawk

Colpocephalum napiforme Rudow, 1869

Colpocephalum napiforme Rudow, 1869. Z. ges. NatWiss., 24: 395.

Craspedorrhynchus americanus Emerson, 1960

Craspedorrhynchus americanus Emerson, 1960. Proc. Biol. Soc. Wash., 73: 40, figs. 9, 13 and 17.

Degeeriella fulva (Giebel, 1874)

(Type host: Aquila chrysaetos (Linnaeus))

Degeeriella regalis regalis (Giebel, 1866)*

(Type host: Milvus milvus Linnaeus)

Nirmus regalis Giebel, 1866. Z. ges. NatWiss., 28: 364.

Nirmus vittatus Giebel, 1874. Insecta Epizoa: 127.

Nirmus appendiculatus Piaget, 1880. Les Pediculines: 132, pl. 11, fig. 2.

Nirmus incertus Piaget, 1885. Les Pediculines, Supplement: 20, pl. 2, fig. 9.

Nirmus curvilineatus Kellogg and Kuwana, 1902. Proc. Wash. Acad. Sci., 4: 470, pl. 29, fig. 4.

Nirmus pseudophaeus Carriker, 1902. Univ. Stud. Nebr., 3: 143, pl. 3, fig. 1.

Kurodala fulvofasciata (Piaget 1880)

(Type host: Buteo buteo (Linnaeus))

Buteo harlani (Audubon)--Harlan's Hawk

Degeeriella fulva (Giebel, 1874)

(Type host: Aquila chrysaetos Linnaeus)

* Based upon one collection

Buteo lineatus (Gmelin)--Red-shouldered Hawk

Craspedorrhynchus buteonis (Packard, 1870)

Docophorus buteonis Packard, 1870. Amer. Nat., 4: 93,
pl. 1, fig. 3.

Degeeriella fulva (Giebel, 1874)

(Type host: Aquila chrysaetos (Linnaeus))

Kurodaia fulvofasciata (Piaget, 1880)

(Type host: Buteo buteo (Linnaeus))

Buteo platypterus (Vieillot)--Broad-winged Hawk

Acutifrons orbiculatus Carriker, 1956

Acutifrons orbiculatus Carriker, 1956. Rev. Brasil Ent.,
5: 119, figs. 5-7.

Kurodaia macrocybe (Carriker, 1903)

Menopon macrocybe Carriker, 1903. Univ. Stud. Nebr.,
3: 181, pl. 7, fig. 2.

Buteo swainsoni Bonaparte--Swainson's Hawk

Colpocephalum costaricense Carriker, 1903

Colpocephalum osborni costaricense Carriker, 1903. Univ.
Stud. Nebr., 3: 172.

Degeeriella regalis regalis (Giebel, 1866)

(Type host: Milvus milvus Linnaeus)

Kurodaia fulvofasciata (Piaget, 1880)

(Type host: Buteo buteo (Linnaeus))

Laemobothrion buteonivorum (Packard, 1872)

Nirmus buteonivorus Packard, 1872. Rept. U. S. Geol. Surv.,
6: 733, fig. 61.

Laemobothrion oligothrix Carriker, 1903. Univ. Stud. Nebr.
3: 161, pl. 4, fig. 7.

Buteo brachyurus Vieillot--Short-tailed Hawk

Degeeriella fulva (Giebel, 1874)

(Type host: Aquila chrysaetos Linnaeus)

Buteo lagopus (Pontoppidan)--Rough-legged Hawk

Craspedorrhynchus dilatatus (Rudow, 1869)

Docophorus dilatatus Rudow, 1869. Beitr. Kenntn. Malloph.: 1r.

Docophorus eurygaster Giebel, 1874. Insecta Epizoa: 69.

Docophorus taurocephalus Kellogg, 1896. Proc. Calif. Acad. Sci., 6:471, pl. 65, fig. 1.

Craspedorrhynchus buteolagopi Merisuo, 1945. Ann. Ent. Fenn., 2: 104, figs. 1, 2c and 3c.

Degeeriella fulva (Giebel, 1874)

(Type host: Aquila chrysaetos (Linnaeus))

Kurodaia fulvofasciata (Plaget, 1880)

(Type host: Buteo buteo (Linnaeus))

Buteo regalis (Gray)--Ferruginous Hawk

Craspedorrhynchus hirsutus Carriker, 1956

Craspedorrhynchus hirsutus Carriker, 1956. Florida Ent., 39: 27, fig. 18.

Degeeriella fulva (Giebel, 1874)

(Type host: Aquila chrysaetos (Linnaeus))

Parabuteo unicinctus (Temminck)--Harris' Hawk

Degeeriella emersoni Clay, 1958

(Type host: Buteogallus gundlachi (Cabanis))

Degeeriella emersoni Clay, 1958. Bull. Brit. Mus. (NH), Ent., 7: 154, t.f. 28, 45, 78 and 87.

Kurodaia koepcke Eichler, 1953

Kurodaia koepcke Eichler, 1953. In Niethammer, Bonn. Zool. Beitr., 4: 265, fig. 32a.

Aquila chrysaetos (Linnaeus)--Golden Eagle

Colpocephalum impressum Rudow, 1866

Colpocephalum impressum Rudow, 1866. Z. ges. NatWiss.: 27, 475.

Craspedorrhynchus aquilinus (Denny, 1842)

Docophorus aquilinus Denny, 1842. Mon. Anopl. Brit.: 46 and 81, pl. 2, fig. 7.

Docophorus chrysophthalmi Denny, 1842. Mon. Anopl. Brit.: 46 and 99, pl. 2, fig. 3.

Philopterus triangulifer Gervais, 1844. Hist. Nat. Ins., 3: 342, pl. 49, fig. 4.

Docophorus orbicularis Rudow, 1870. Z. ges. NatWiss., 35: 460.

Docophorus pictus Giebel, 1874. Insecta Epizoa: 74.

Degeeriella discocephalus aquilarum Eichler, 1943

(Type host: Aquila nipalensis Hodgson)

Degeeriella aquilarum Eichler, 1943. Zool. Anz., 1942: 92, fig. 1.

Degeeriella fulva (Giebel, 1874)

Nirmus fuscus Nitzsch, 1861 (nec Denny, 1842). In Giebel, Z. ges. NatWiss., 17: 525.

Nirmus fulvus Giebel, 1874. Insecta Epizoa: 124.

Nirmus angustus Giebel, 1874. Insecta Epizoa: 126.

Nirmus flavidus Giebel, 1874. Insecta Epizoa: 301.

Degeeriella giebels Hopkins, 1947. Entomologist, 80: 77.

(an for N. fuscus Nitzsch, 1861)

Degeeriella borealis Carriker, 1956. Florida Ent., 39: 41, figs. 38 and 40b.

Degeeriella genitalis Carriker, 1956. Florida Ent., 39: 43, figs. 41-42.

Falcolipeurus suturalis (Rudow, 1869)

Lipeurus quadripustulatus Denny, 1842 (nec Burmeister, 1838). Mon. Anopl. Brit.: 58 and 167, pl. 16.

Lipeurus suturalis Rudow, 1869. Beitr. Kenntn. Malloph.: 44.

Lipeurus dennyi Giebel, 1874. Insecta Epizoa: 211 (nn for L. quadripustulatus Denny, 1842)

Lipeurus variopictus Giebel, 1874. Insecta Epizoa: 211 (in partim).

Laemobothrion mendesi Tendeiro, 1955

Laemobothrion mendesi Tendeiro, 1955. Bol. Cult. Guine Port., 9: 211, figs. 7-8.

Haliaeetus leucocephalus (Linnaeus)--Bald Eagle

Craspedorrhynchus halioti (Osborn, 1896)

Docophorus halioti Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 218.

Degeeriella discocephalus discocephalus (Burmeister, 1838)

(Type host: Haliaeetus albicilla (Linnaeus))

Nirmus discocephalus Burmeister, 1838. Handb. Ent.,
1: 430.

Nirmus discocephalus amblys Kellogg, 1896. Proc. Calif.
Acad. Sci., 6: 499, pl. 67, fig. 6.

Haliaeetus pelagicus (Pallas)--Steller's Sea Eagle

Colpocephalum flavescens (deHaan, 1829)

Liotheum flavescens deHaan, 1829. Mem. Mus. Hist. Nat.
Paris, 18: 309.

Craspedorrhynchus macrocephalus (Nitzsch, 1874)

Docophorus macrocephalus Nitzsch, 1874. In Giebel,
Insecta Epizoa: 73.

Degeeriella discocephalus discocephalus (Burmeister, 1838)

(Type host: Haliaeetus albicilla (Linnaeus))

Falcolipeurus sulcifrons (Denny, 1842)

Lipeurus sulcifrons Denny, 1842. Mon. Anopl. Brit.: 58
and 169, pl. 14, fig. 1.

Lipeurus quadrioculatus Nitzsch, 1861. In Giebel.
Z. ges. NatWiss., 17: 522.

Lipeurus variopictus Giebel, 1874. Insecta Epizoa: 211.
(in partim).

Circus cyaneus (Linnaeus)--Marsh Hawk

Degeeriella fusca (Denny, 1842)

(Type host: Circus aeruginosus (Linnaeus))

Nirmus fuscus Denny, 1842. Mon. Anopl. Brit.: 49 and 118.

Nirmus aeruginosi Denny, 1852. List. Brit. Animals in
Brit. Mus., pt. 11, Anoplura: 16 (nn for N. fuscus Denny, 1842).

Nirmus socialis Giebel, 1874. Insecta Epizoa: 127.

Kelerinirmus circi Boetticher and Eichler, 1954. Biol.
Zbl., 73: 215.

Kurodaia fulvofasciata (Piaget, 1880)

(Type host: Buteo buteo (Linnaeus))

Pandion haliaëtus (Linnaeus)--Osprey

Kurodaia haliaëti (Denny, 1842)

Colpocephalum haliaëti Denny, 1842. Mon. Anopl. Brit.:
199 and 216, pl. 19, fig. 1.

Colpocephalum pachygaster Giebel, 1874. Insecta Epizoa: 264.

Laemobothrion bureschi Eichler, 1943

Laemobothrion bureschi Eichler, 1943. Mitt. Naturw. Inst.
Sofia, 16: 209, fig. 4.

FALCONIFORMES
Falconidae

All genera found on this family of host have been mentioned in the discussion of the Accipitridae. Very few collections have been made from the members of his family.

FALCONIFORMES
Falconidae

Caracara cheriway (Jacquin)--Caracara

Colpocephalum polybori Rudow, 1869

Colpocephalum polybori Rudow, 1869. Z. ges. NatWiss.,
34: 397.

Falco rusticolus Linnaeus--Gyrfalcon

Degeeriella rufa rufa (Burmeister, 1838)

(Type host: Falco tinnunculus Linnaeus)

Nirmus rufus Burmeister, 1838. Handb. Ent., 2: 430.

Nirmus fasciatus Rudow, 1869. Beitr. Kennt. Malloph.: 20.

Nirmus quadraticollis Rudow, 1870. Z. ges. NatWiss., 35: 469.

Nirmus nitzschi Giebel, 1874 (nec Ponton, 1871). Insecta
Epizoa: 125.

Nirmus burmeisteri Giebel, 1874. Insecta Epizoa: 126.

Nirmus platyclypeatus Piaget, 1880. Les Pediculines: 145,
pl. 12, fig. 1.

Kelerinirmus rufus boliviensis Eichler, 1954. Beitr.
Fauna Perus, 4: 38.

Degeeriella rufa drosti Timmermann, 1955. Naturur-
fraedingurinn, 1: 49 (nn for N. nitzschi Giebel, 1874).

Degeeriella falconoides Carriker, 1956. Florida Ent.,
39: 42, figs. 39 and 40a.

Degeeriella masumae Ansari, 1955. Proc. VII Pakistan
Sci. Conf., Biology: 42.

Degeeriella splendidus Ansari, 1955. Proc. VII Pakistan
Sci. Conf., Biology: 42.

Degeeriella rufa applanata Tendeiro, 1958. Bol. Cult.
Guine Port., 13: 33, fig. 3-2 and Photos 5-6.

Degeeriella rufa subbutionis Tendeiro, 1958. Bol. Cult.
Guine Port., 13: 43, fig. 3-4, photos 11-12.

Degeeriella rufa clayae Tendeiro, 1958. Bol. Cult. Guine
Port., 13: 47, figs. 3-5, photos 15-16.

Falco mexicanus Schlegel--Prairie Falcon

Degeeriella rufa rufa (Burmeister, 1838)

(Type host: Falco tinnunculus Linnaeus)

Falco peregrinus Turnstall-Peregrine Falcon

Degeeriella rufa rufa (Burmeister, 1838)
(Type host: Falco tinnunculus Linnaeus)

Falco columbarius Linnaeus--Pigeon Hawk

Degeeriella rufa rufa (Burmeister, 1838)
(Type host: Falco tinnunculatus Linnaeus)

Laemobothrion semicirculus Carriker, 1961
Laemobothrion semicirculus Carriker, 1961. Nov. Cien.
Mus. Hist. Nat. LaSalle, No. 28: 39, fig. 4.

Falco sparverius Linnaeus--Sparrow Hawk

Degeeriella rufa carruthi Emerson, 1953
Degeeriella carruthi Emerson, 1953. J. Kansas Ent.
Soc., 26: 132, figs. 2-3.

Kurodaia macrura Eichler, 1952
Kurodaia macrura Eichler, 1952. Zool. Anz., 149: 257,
fig. 11.

Laemobothrion intermedium McGregor, 1917.
Laemobothrium intermedium McGregor, 1917. Ent.
News. 28: 434, pl. 28, figs. 2 and 5.

GALLIFORMES
Cracidae

The genus Amyrsidea Ewing, 1927 (J. Wash. Acad. Sci., 17: 90) is found on several families of the order Galliformes. Carriker has published on several groups found on neotropical forms, but no comprehensive paper on the genus is available.

The genus Chelopistes Keler, 1939 (Nova Acta Leop-Carol. (N.F.), 8: 180) in North America is found on the Chachalaca and the Turkey. For a discussion of the two species see Emerson, 1960, Florida Ent., 43: 195.

The genus Menacanthus Neumann, 1912 (Arch. Parasit., 15: 353) has not been recorded from this family in North America, but as undescribed species is known to parasitize this host. The genus is found in North America on several families of order Galliformes, the order Piciformes, and the order Passeriformes.

The genus Oxylipeurus Mjöberg, 1910 (Ark. Zool., 6: 91) is found on several families of the order Galliformes. For discussions of the genus, see Clay, 1938, Proc. Zool. Soc. Lond. (B), 108: 157; Carriker, 1944, Rev. Brasil Biol., 4: 557 and 1945, 5: 91; and Keler, 1958, Dtsch. Ent. Zeits., 5: 299.

GALLIFORMES
Cracidae

Ortalis vetula (Wagler)--Chachalaca

Amyrsidea spicula Carriker, 1950

Amyrsidea spicula spicula Carriker, 1950. Rev. Acad.
Colomb. Sci., 7: 506, figs. 54-55a.

Chelopistes texanus Emerson, 1960

Chelopistes texanus Emerson, 1960. Florida Ent., 43:
195, figs. 1-3.

Oxylipeurus chiniri vetulae Carriker, 1944

Oxylipeurus chiniri vetulae Carriker, 1944. Rev. Brasil
Biol., 4: 579, figs. 50-53.

GALLIFORMES
Tetraonidae

The genus Amyrsidea has been discussed previously.

The genus Goniodes Nitzsch, 1818, (Germar's Mag. Ent., 3: 293) is also found on the family Phasianidae. For a discussion of the genus see Clay, 1940, Proc. Zool. Soc. Lond., (B) 110: 1. For a key to the North American species, see Emerson, 1950, J. Kansas Ent. Soc., 23: 122.

The genus Lagopoecus Waterston, 1922, (Ent. Month. Mag., 58: 159) is also found on the family Phasianidae. For a discussion of the genus see Emerson, 1950, J. Kansas Ent. Soc., 23: 97.

The genus Menacanthus as discussed previously is also found on this family.

GALLIFORMES
Tetraonidae

Dendragapus obscurus (Say)--Blue Grouse

Goniodes merriamanus Packard, 1873

Goniodes merriamanus Packard, 1873. Rept. U. S. Geol. Surv., 1872: 731, fig. 59.

Goniodes simoni Clay, 1940. Proc. Zool. Soc. Lond. (B), 110: 44, figs. 1c and 28.

Lagopoecus obscurus Emerson, 1948

Lagopoecus obscurus Emerson, 1948. J. Kansas Ent. Soc., 21: 137, figs. 1-3.

Canachites canadensis (Linnaeus)--Spruce Grouse

Goniodes corpulentus Kellogg and Mann, 1912

Goniodes corpulentus Kellogg and Mann, 1912. Ent. News, 23: 14, figs. 1-2.

Bonasa umbellus (Linnaeus)--Ruffed Grouse

Amyrsidea megalosoma (Overgaard, 1943)

(Type host: Phasianus colchicus Linnaeus)

Goniodes bonasus Emerson, 1948

Goniodes bonasus Emerson, 1948. J. Kansas Ent. Soc., 21: 92, figs. 1-4.

Lagopoecus umbellus Emerson, 1950

Lagopoecus umbellus Emerson, 1950. J. Kansas Ent. Soc., 23: 101, pl. 1, fig. 8, and pl. 2, fig. 6.

Lagopus lagopus (Linnaeus)--Willow Ptarmigan

Amyrsidea lagopi (Grube, 1851)

Menopon lagopi Grube, 1851. Middendorff's sibir.

Reise, 2: 491, pl. 31, fig. 7.

Menopon striatum Kellogg, 1899. Occ. Pap. Calif.

Acad. Sci., 6: 44, pl. 4, fig. 6.

Goniodes lagopi (Linnaeus, 1758)

Pediculus lagopi Linnaeus, 1758. Syst. Nat., ed. 10:614.

Pediculus lagopidis Smelin, 1790. Car. a Linne...Syst.

Nat., ed. 13, 1: 2920 (nn for P. lagopi Linnaeus, 1758).

Goniodes chelicornis Children, 1836. Back's Arctic

Land Exped.: 539.

Goniodes lagopi greenlandicus Carriker, 1945. Rev. Acad.

Colomb. Sci., 6: 359, fig. 9.

Gonocephalus lagopi timmermanni Eichler, 1950. Doriana,

1: 6, figs. 8-10.

Lagopoecus affinis (Children, 1836)

Nirmus affinis Children, 1836. Back's Arctic Land Exped.: 537.

Lipeurus protervus Kellogg, 1899. Occ. Pap. Calif. Acad.

Sci., 6: 31, pl. 3, fig. 4.

Nirmus nigrescens Evans, 1912. Scot. Nat., 1912: 280.

Lagopus mutus (Montin)--Rock Ptarmigan

Mallophaga found on this host apparently cannot be separated from those found on Lagopus lagopus (Linnaeus), and all are listed under that species.

Lagopus leucurus (Richardson)--White-tailed Ptarmigan

Amyrsidea lagopi (Grube, 1851)

(Type host: Lagopus lagopus (Linnaeus))

Goniodes leucurus Emerson, 1952

Goniodes leucurus Emerson, 1952. J. Kansas Ent. Soc.,

25: 29.

Lagopoecus affinis (Children, 1836)

(Type host: Lagopus lagopus (Linnaeus))

Tympanuchus cupido (Linnaeus)--Greater Prairie Chicken

Amyrsidea megalosoma (Overgaard, 1943)
(Type host: Phasianus colchicus Linnaeus)

Goniodes cupido Rudow, 1870
Goniodes cupido Rudow, 1870. Z. ges. NatWiss., 35: 482.

Tympanuchus pallidicinctus (Ridgway)--Lesser Prairie Chicken

Goniodes cupido Rudow, 1870
(Type host: Tympanuchus cupido (Linnaeus))

Pedioecetes phasianellus (Linnaeus)--Sharp-tailed Grouse

Amyrsidea megalosoma (Overgaard, 1943)
(Type host: Phasianus colchicus Linnaeus)

Goniodes nebraskensis Carriker, 1945
Goniodes nebraskensis Carriker, 1945. Rev. Acad. Colomb.
Sci., 6: 357, figs. 6-8.

Lagopoecus perplexus (Kellogg and Chapman, 1899)
Lipeurus perplexus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 103, pl. 7, fig. 3.

Centrocercus urophasianus (Bonaparte)--Sage Grouse

Goniodes centrocerci Simon, 1938
Goniodes centrocerci Simon, 1938. J. Kansas Ent. Soc.,
11: 104, pl.

Lagopoecus gibsoni Hopkins, 1947
Lagopoecus gibsoni Hopkins, 1947. Ann. Mag. Nat. Hist.,
(11), 13: 172, figs. 1-3.

GALLIFORMES
Phasianidae

The remarks which follow apply to native birds only.

The genera Amyrsidea, Goniodes, Lagopoecus, Menacanthus, and Oxylipeurus were discussed previously.

The genus Colinicola Carriker, 1945 (Rev. Acad. Colomb. Sci., 6: 360) apparently is restricted to New World Galliformes. Clay considers this genus to be a synonym of Lagopoecus. For a discussion of North American species, see Emerson, 1949, Ento. News, 60: 116.

The species found on the introduced birds and domestic Gallinaceous fowls are fairly complete as listed.

GALLIFORMES
Phasianidae

Colinus virginianus (Linnaeus)--Bob-white

Colinicola numidiana (Denny, 1842)

Goniodes numidianus Denny, 1842. Mon. Anopl. Brit. : 57
and 163, pl. 13, fig. 7.

Lipeurus aberrans McGregor, 1917. Psyche, 24: 112,
pl. 7, figs. 1-4.

Goniodes ortygis Denny, 1842

Goniodes ortygis Denny, 1842. Mon. Anopl. Brit.: 56
and 158, pl. 13, fig. 6.

Goniodes dispar minor Piaget, 1880. Les Pediculines
248 (nec p. 241).

Oxylipeurus clavatus (McGregor, 1917)

Lipeurus clavatus McGregor, 1917. Psyche, 24: 115,
pl. 7, fig. 3.

Epicolinus cubanus Carriker, 1945. Rev. Brasil Biol.
5: 108.

Callipepla squamata (Vigors)--Scaled Quail

Colinicola pallida Emerson, 1949

Colinicola pallida Emerson, 1949. Ent. News, 60: 116,
fig. 2.

Goniodes squamatus Emerson, 1950

Goniodes squamatus Emerson, 1950. J. Kansas Ent. Soc.,
23: 122, figs. 7-9.

Oxylipeurus callipeplus callipeplus (Carriker, 1945)

Epicolinus callipeplus callipeplus Carriker, 1945.
Rev. Brasil Biol., 5: 106, figs. 35-38.

Lophortyx californica (Shaw)--California Quail

Colinicola docophoroides (Piaget, 1880)

Lipeurus docophoroides Piaget, 1880. Les Pediculines: 357, pl. 28, fig. 9.

Lipeurus docophoroides minhaensis Kellogg and Chapman, 1902, J. N. Y. Ent. Soc., 10: 159.

Goniodes stefani Clay and Hopkins, 1955

"Goniodes mamillatus" Keler, 1939 (nec Rudow, 1870).

Nova Acta Leop.-Carol. (n.f.), 8: 88, figs. 45-46.

Goniodes stefani Clay and Hopkins, 1955. Mitt. Hamburg Zool. Mus. Inst., 53: 57 (nn for "G. mamillatus" Keler, 1939).

Lophortyx gambelii Gambel--Gambel's Quail

Goniodes submamillatus Emerson, 1950

Goniodes submamillatus Emerson, 1950. J. Kansas Ent. Soc., 23: 121, figs. 4-6.

Lagopoecus gambelii Emerson, 1949

Lagopoecus gambelii Emerson, 1949. J. Kansas Ent. Soc., 22: 75, figs. 3-5.

Oxylipeurus ellipticus (Keler, 1958)

Epicolinus ellipticus Keler, 1958. Dtsch. Ent. Zeits., 5: 322, figs. 55-56.

Oreortyx pictus (Douglas)--Mountain Quail

Goniodes pictus Emerson, 1950

Goniodes picta Emerson, 1950. J. Kansas Ent. Soc. 23: 120, figs. 1-3.

Lagopoecus californicus (Kellogg and Chapman, 1899)

Lipeurus docophoroides californicus Kellogg and Chapman, 1899. Occ. Pap. Calif. Acad. Sci., 6: 103.

Cyrtonyx montezumae (Vigors)--Harlequin Quail

Colinicola mearnsi Emerson, 1948

Colinicola mearnsi Emerson, 1948. J. Kansas Ent. Soc., 21: 137, figs. 4-6.

Oxylipeurus montezumae Emerson, 1949

Oxylipeurus montezumae Emerson, 1949. J. Kansas Ent. Soc., 22: 75, figs. 3-5.

Alectoris graeca (Meisner)--Chuckar

Mallophaga found on this host apparently cannot be separated from those found on Perdix perdix (Linnaeus), and all are listed under that species.

Perdix perdix (Linnaeus)--Gray Partridge

Amyrsidea perdicis (Denny, 1842)

Menopon perdicis Denny, 1842. Mon. Anopl. Brit.
200 and 225, pl. 21, fig. 9.

Cuculotogaster heterogrammicus (Nitzsch, 1866)

Lipeurus heterogrammicus Nitzsch, 1866. In Giebel,
Z. ges. NatWiss., 28: 379.

Goniocotes microthorax (Stephens, 1829)

Goniodes microthorax Stephens, 1829. Cat. Brit. Ins., 2: 333.

Goniocotes alatus Piaget, 1885. Les Pediculines,
Supplement: 45, pl. 5, fig. 4.

Goniocotes simillimus Keler, 1937. Arb. morph. tax. Ent.
Berlin-Dahlem, 4: 128, figs. 1-2.

Goniodes dispar Burmeister, 1838

Goniodes dispar Burmeister, 1838. Handb. Ent., 3: 432.

Goniodes flaviceps Rudow, 1869. Beitr. Kennt. Malloph.: 28.

Goniodes truncatus Giebel, 1874. Insecta Epizoa: 194

Goniodes brevantennatus Piaget, 1885. Les Pediculines,
Supplement: 50, pl. 5, fig. 8.

Solenodes cypricus Keler, 1939. Nova Acta Leop.-Carol.
(n.f.), 8: 107, fig. 56.

Menopon pallens Clay, 1949

Menopon pallescens Nitzsch, 1874 (nec Giebel, 1866).

In Giebel, Insecta Epizoa: 293.

Menopon pallescens major Piaget, 1880. Les Pediculines: 471.

Menopon pallescens pallida Piaget, 1880. Les Pediculines: 471.

Menopon pallens Clay, 1949. Ann. Mag. Nat. Hist., (12) 2: 901
(nn for M. pallescens Nitzsch 1874).

Menopon pallens Hopkins, 1950 (nec Clay, 1949). Ann. Mag.
Nat. Hist., (12), 3: 240 (nn for M. pallescens Nitzsch, 1874).

Phasianus colchicus Linnaeus--Ring-necked Pheasant*

Amyrsidea megalosoma (Overgaard, 1943)

Menopon megalosomum Overgaard, 1943. Ent. Medd.,
23: 13, figs. 5-6.

Menopon hexapilosus Vrazic, 1956. Vet. Arhiv.
Zagreb, 26: 121, 126, and 129.

Goniocotes chrysocephalus Giebel, 1874

Goniocotes chrysocephalus Giebel, 1874. Insecta Epizoa: 189.

Goniodes colchici Denny, 1842

Goniodes colchici Denny, 1842. Mon. Anopl. Brit.: 56 and
158, pl. 12, fig. 4.

Goniodes colchicus Giebel, 1874. Insecta Epizoa: 200.

Lagopoecus colchicus Emerson, 1949

Lagopoecus colchicus Emerson, 1949. J. Kansas Ent. Soc.,
22: 78, fig. 6.

Degeeriella brionica Vrazic, 1956. Vet. Arhiv. Zagreb,
26: 124, 128, and 131.

Lipeurus maculosus Clay, 1938

Lipeurus maculosus Clay, 1938. Proc. Zool. Soc. Lond.
(B), 108: 116, figs. 5a., 6a and pl. 1, fig. e.

Oxylipeurus mesopelios colchicus Clay, 1938

Oxylipeurus mesopelios colchicus Clay, 1938. Proc. Zool.
Soc. Lond. (B), 108: 177, pl. 11, fig. 3.

Lipeurus ponnonicus Vrazic, 1956. Vet. Arhiv.
Zagreb, 26: 123, 127, and 130.

* Mallophaga normally found on the chicken (not listed here) are
also sometimes found on the Ring-necked Pheasant.

Pavo cristatus (Linnaeus)--Domestic Peafowl

Amyrsidea minuta Emerson, 1961

Amyrsidea minuta Emerson, 1961. Florida Ent., 44: 117,
figs. 1-3.

Amyrsidea phaeostoma (Nitzsch, 1866)

Menopon phaeostomum Nitzsch, 1866. In Giebel,
Z. ges. NatWiss, 28: 391.

Colpocephalum taursi (Ansari, 1951)

Galliferrisia taursi Ansari, 1951. Proc. Nat. Inst.
Sci. India, 17: 151, fig. 10.

Goniocotes parviceps (Piaget, 1880)

Goniodes parviceps Piaget, 1880. Les Pediculines: 277,
pl. 23, fig. 2.

Goniocotes yngarejsuf Eichler, 1950. Doriana, 1: 4, figs. 3-4.

Goniocotes rectangulatus Nitzsch, 1866.

Goniocotes rectangulatus Nitzsch, 1866. In Giebel,
Z. ges. Nat Wiss., 28: 389.

Goniocotes rectangulus Giebel, 1874. Insecta Epizoa: 185.
(nn for G. rectangulatus Nitzsch, 1866)

Goniodes meinertzhageni Clay, 1940.

Goniodes meinertzhageni Clay, 1940. Proc. Zool. Soc.
Lond. (B), 110: 9, figs. 1b, 4b, 6, 7 and 9b.

Goniodes pavonis (Linnaeus, 1758)

Pediculus pavonis Linnaeus, 1758. Syst. Nat., ed. 10: 613.

Nirmus tetragonocephalus Olfers, 1816. De Veget....: 90.

Philopterus falcicornis Nitzsch, 1818. Germar's
Mag. Ent., 3: 293.

Lipeurus pavo Clay, 1938

Lipeurus pavo Clay, 1938. Proc. Zool. Soc. Lond. (B),
108: 125, figs. 2c, 4d, 7d, 10a, and pl. 4, fig. 1.

Menacanthus stramineus (Nitzsch, 1818)

(Type host: Meleagris gallopavo Linnaeus)

Domestic chicken *

- Cuculotogaster heterographus heterographus (Nitzsch, 1866)
Lipeurus heterographus Nitzsch, 1866. In Giebel,
Z. ges. NatWiss., 28: 381.
Goniocotes burnetti Packard, 1870. Amer. Nat.,
4: 94, fig. 26.
Lipeurus pallidus Giebel, 1874. Insecta Epizoa: 219.
Lipeurus heterographus major Piaget, 1880. Les
Pediculines: 362.
Goniocotes eynsfordii Theobald, 1896. Parasitic
Diseases Poultry: 26, fig. 8.
Cuculotogaster laticorpus Carriker, 1936. Proc. Acad.
Nat. Sci. Philad., 88: 67, pl. 1, fig. 2.
- Goniocotes gallinae (DeGeer, 1778)
Ricinus gallinae DeGeer, 1778. Mem. Hist. Ins.,
7: 79, pl. 4, fig. 15.
Philocterus hologaster Nitzsch, 1818.
Germar's Mag. Ent., 3: 294 (nn for R. gallinae DeGeer, 1778).
- Goniodes dissimilis Denny, 1842
Goniodes dissimilis Denny, 1842. Mon. Anopl. Brit.: 57
and 162, pl. 12, fig. 6.
Goniodes dissimilis bankiva Piaget, 1880. Les
Pediculines: 269.
- Goniodes gigas (Taschenberg, 1879)
(Type host: Numida meleagris Linnaeus)
- Lagopoecus sinensis (Sugimoto, 1930)
Degeeriella sinensis Sugimoto, 1930. J. Soc. Trop.
Agric. Taiwan, 2: 130, pl. 3-4.

* For a complete discussion, see Emerson, J. Kansas Ent. Soc., 1956
29: 63 and 1957, 30: 9.

Lipeurus caponis (Linnaeus, 1758)
Pediculus caponis Linnaeus, 1758, Syst. Nat., ed. 10:614.
Lipeurus variabilis Burmeister, 1838. Handb. Ent., 2: 434.
Nirmus tessellatus Denny, 1842. Mon. Anopl. Brit.:
 49 and 121, pl. 7, fig. 2.
Lipeurus antennatus Piaget, 1885 (nec Giebel, 1874). Les
 Pediculines, Supplement: 75, pl. 8, fig. 3.
Lipeurus variabilis alpha Kellogg, 1908. In Wytsman's
 Gen. Ins., 66, Mallophaga: 45.
Lipeurus variabilis beta Kellogg, 1908. In Wytsman's
 Gen. Ins., 66 Mallophaga: 45.
Lipeurus variabilis gamma Kellogg, 1908. In Wytsman's
 Gen. Ins., 66, Mallophaga: 45.
Lipeurus lineatus McGregor, 1917 (nec Giebel, 1874).
 Psyche, 24: 114, pl. 7, figs. 2 and 5.
Lipeurus dovei McGregor, 1918. Psyche., 25: 46. (nn for
L. lineatus McGregor, 1917 nec Giebel, 1874)
Lipeurus formosanus Sugimoto, 1929 (nec Uchida, 1917).
 Rept. Dept. Agri. Res. Inst. Formosa, 43: 53.
Lipeurus caponis borcherti Eichler, 1953. Mh. Vet.
 Med., 8: 566, fig.
Lipeurus bakeri Carriker, 1956. Florida Ent., 39: 128,
 fig. 76 (? type is a nymph).

Lipeurus lawrensis tropicalis Peters, 1931
 (Type host: Numida meleagris Linnaeus)

Menacanthus cornutus (Schrömmmer, 1913)
Menopon cornutus Schömmmer, 1913. Über die Mallophagen.:
 64 and 71, pl. 7, fig. 29.

Menacanthus pallidulus (Neumann, 1912)
Menopon pallidulum Neumann, 1912. Arch. Parasit., 15:
 361, figs. 7-9.

Menacanthus stramineus (Nitzsch, 1818)
 (Type host: Meleagris gallopavo Linnaeus)

Menopon gallinae (Linnaeus, 1758)

Pediculus gallinae Linnaeus, 1758. Syst. Nat., ed. 10: 613.

Nirmus trigonocephalus Olfers, 1816. De Veget...1: 90.

Liotheum pallidum Nitzsch, 1818. Germar's Mag.

Ent. 3: 299.

Menopon productum Piaget, 1880. Les Pediculines: 461,
pl. 37, fig. 8.

Menopon productum major Piaget, 1880. Les Pediculines: 462.

Menopon subaequale producta Piaget, 1885. Les Pediculines,
Supplement: 109.

Menopon brevipes Piaget, 1885. Les Pediculines, Supplement;
110, pl. 12, fig. 1.

Menopon longicephalum Kellogg, 1896. Proc. Calif. Acad.

Sci., 6: 535, pl. 73, fig. 4.

Menopon lunale Eichler, 1947. Ark. Zool., 39A, no. 2: 17,
figs. 35-38.

Oxylipeurus dentatus (Sugimoto, 1934)

Lipeurus dentatus Sugimoto, 1934. Taiwan no Chikusan,
2: 2, figs. 1-12.

Lipeurus denticlypeus Sugimoto, 1934. Zoological Record,
72, Insecta: 419 (nn for L. dentatus Sugimoto, 1934).

Lipeurus angularis Peters, 1935. Ohio J. Sci., 35: 102,
figs. 1-3.

GALLIFORMES
Numididae

The species listed are those normally found on wild guinea fowls in Africa. The few collections made to date from domestic guinea fowls indicate that Mallophaga from the chicken are also found on this host.

The genera Amyrsidea, Gonicotes, Goniodes, Lipeurus, and Menacanthus are mentioned previously.

For a discussion of Clayia Hopkins, 1941 (J. Ent. Soc. S. Afr., 4: 46) see Emerson, 1954, Proc. Ent. Soc. Wash., 56: 203. The genus Numidicola Ewing, 1927 (J. Wash. Acad. Sci., 17:30) is monotypic. For a discussion of Somaphantus Paine, 1914 (Smithsonian Misc. Coll., 61 No. 23: 1) see Emerson, 1958, Ann. Mag. Nat. Hist., (13), 1: 102.

GALLIFORMES

Numididae

Numida meleagris (Linnaeus)--Domestic Guinea Fowl

Amyrsidea desousai (Keler, 1953)*

Menacanthus desousai Keler, 1953. Mocambique, no. 72: 29, figs. 12-13.

Clayia theresae Hopkins, 1941

Clayia theresae Hopkins, 1941. J. Ent. Soc. S. Afr., 4: 46.

Goniocotes maculatus Taschenberg, 1882

Goniocotes hologaster maculatus Taschenberg, 1882.

Nova Acta Leop.-Carol., 44: 76, pl. 3, fig. 3.

Goniocotes nigromaculatus Mjöberg, 1910. Ark. Zool., 6: 107, fig. 62.

Goniocotes numidae Keler, 1939. Nova Acta Leop.-Carol. (n.f.), 8: 147 and 226, figs. 81-82.

Goniocotes valdezi Tendeiro, 1954. Bol. Cult. Guine Port., 9: 327, fig. 13 and plate 16.

Goniodes gigas (Taschenberg, 1879)

Goniocotes hologaster Denny, 1842 (nec Nitzsch, 1818)

Mon. Anopl. Brit.: 56 and 153, pl. 13, fig. 4.

Goniocotes gigas Taschenberg, 1879. Z. ges. Natwiss., 52: 104, pl. 1, fig. 10.

Goniocotes abdominalis Piaget, 1880. Les Pediculines: 238, pl. 20, fig. 9.

* At least one undescribed species of Amyrsidea is known.

- Goniodes numidae Mjöberg, 1910*
Goniodes numidae Mjöberg, 1910. 6: 102, figs. 60-61.
Goniodes fimbriatus Neumann, 1913. Arch. Parasit., 15: 629, figs. 19-20.
Goniodes perlatus Clay, 1940. Proc. Zool. Soc. Lond. (B), 110: 30, figs. 19-20.
- Lipeurus lawrensis lawrensis Bedford, 1929
Lipeurus lawrensis Bedford, 1929. Rept. Vet. Res. S. Afr., 15: 521, figs. 22-24.
- Lipeurus lawrensis tropicalis Peters, 1931
Lipeurus tropicalis Peters, 1931. Ent. News, 42: 195, Figs. 1-2.
- Lipeurus numidae (Denny, 1842)
Nirmus numidae Denny, 1842. Mon. Anopl. Brit.: 48 and 115, pl. 10, fig. 5.
Lipeurus numidianus Mjöberg, 1910. Ark. Zool., 6: 87, pl. 3, figs. 4 and 6.
- Menacanthus numidae (Giebel, 1874)
Menopon numidae Giebel, 1874. Insecta Epizoa: 292.
- Menacanthus stramineus (Nitzsch, 1818)
(Type host: Meleagris gallopavo Linnaeus)
- Numidicola antennatus (Kellogg and Paine, 1911)
Menopon antennatum Kellogg and Paine, 1911. Bull. Ent. Res., 2: 150, pl. 5, fig. 1.
Numidicola longicornis Ewing, 1927. J. Wash. Acad. Sci., 17: 91.
- Somaphantus lusus Paine, 1914
Somaphantus lusus Paine, 1914. Smithsonian Misc. Coll., 61, no. 23: fig. 1.

* Synonyms are tentative as status of the forms listed is confused.

GALLIFORMES
Meleagrididae

Collections have been sparse, hence, distribution data is limited; especially those concerning the genus Oxylipeurus. All genera have been mentioned previously. For discussion and illustrations of species, see Emerson, 1962, J. Kansas Ent. Soc., 35: 196.

GALLIFORMES
Meleagrididae

Meleagris gallopavo Linnaeus--Turkey

Chelopistes meleagridis (Linnaeus, 1758)

Pediculus meleagridis Linnaeus, 1758. Syst. Nat.,
ed. 10: 613.

Philopterus stylifer Nitzsch, 1818.

German's Mag. Ent., 3: 294. (nn for P. meleagridis
Schrank, 1781).

Rhopaloceras styliferum Taschenberg, 1882. Nova
Acta Leop.-Carol., 44: 47.

Oxylipeurus corpulentus Clay, 1938

Oxylipeurus corpulentus Clay, 1938. Proc. Zool. Soc.
Lond. (B), 108: 183, figs. 27b, 38, 39, and pl. 12, fig. 1.

Oxylipeurus polytrapezius polytrapezius (Burmeister, 1838)

Lipeurus polytrapezius Burmeister, 1838. Handb.
Ent., 2: 434.

Menacanthus stramineus (Nitzsch, 1818)

Pediculus meleagridis Panzer, 1793 (nec Linnaeus, 1758).
Faun. Ins. Germ.: 51, fig. 20.

Menopon stramineum Nitzsch, 1818. German's Mag. Ent.,
3: 300 (nn for P. meleagridis Panzer, 1793).

Menopon biseriatum Piaget, 1880. Les Pediculines: 469,
pl. 37, fig. 2.

Zemiodes zumpti Eichler, 1944. Z. hyg. Zool., 35: 172,
fig. 1.

GRUIFORMES
Gruidae

The genus Esthiopterum Harrison, 1916 (Parasitology, 9: 26) is restricted to this family.

The genus Gruimenopon Clay and Meinertzhagen, 1941 (Ann. Mag. Nat. Hist., (11), 7: 339) is restricted to this family.

The genus Helenomus Ferris, 1916 (Canad. Ent., 48: 305) is restricted to this family. For illustrations of the North American species see Emerson, 1947, Canad. Ent., 19: 139.

The genus Saemundssonina discussed previously is known to parasitize this family.

Very few specimens have been collected from this family, however, the four genera mentioned above are known to be normal parasites. Dr. Edwards is reviewing the Mallophaga found on this family.

GRUIFORMES
Gruidae

Grus americana (Linnaeus)--Whooping Crane

Helenomus assimilis (Piaget, 1880)

Colpocephalum assimile Piaget, 1880. Les Pediculines: 544.

Grus canadensis (Linnaeus)--Sandhill Crane

Esthiopterum brevicephalus (McGregor, 1917)

Lipeurus brevicephalus McGregor, 1917. Psyche,
24: 105, pl. 5, figs. 2-3.

Gruimenopon canadense Edwards, 1949

Gruimenopon canadensum Edwards, 1949. Psyche,
56: 116, pl. 6, figs. 1-4.

GRUIFORMES
Aramidae

The genera Ibidoecus, Laemobothrion, and Pseudomenopon have been discussed previously.

The genus Rallicola Johnston and Harrison, 1911 (Proc. Linn. Soc. N. S. W., 36: 324) is also found on the family Rallidae, order Gruiformes; and the family Jacanidae, order Charadriiformes. For discussions of the genus, see Clay, 1953, Proc. Zool. Soc. Lond., 123: 563 and Emerson, 1955, Ann. Ent. Soc. Amer., 48: 284 and 1957, Proc. Ent. Soc. Wash., 59: 185.

GRUIFORMES
Aramidae

Aramus guarauna (Linnaeus)--Limpkin

Ibidoecus scolopaceus Carriker, 1947

Ibidoecus scolopaceus scolopaceus Carriker, 1947. Bol. Ent.
Venezol., 6: 131, figs. 17-19.

Laemobothrion cubense Kellogg and Ferris, 1915

Laemobothrion setigerum cubensis Kellogg and Ferris, 1915.
Ann. Durban Mus., 1: 149, pl. 15, fig. 2.

Pseudomenopon stresemanni Eichler, 1949

Pseudomenopon stresemanni Eichler, 1949. Ornithologie als
biologische Wissenschaft: 250, figs. 1-6.

Rallicola funebris (Nitzsch, 1866)

Nirmus funebris Nitzsch, 1866. In Giebel, Z. ges. NatWiss.,
28: 371

Rallicola bresslaui Pessoa and Guimaraes, 1935. Ann. Fac.
Med. S. Paulo, 11: 169, figs. 1-6.

GRUIFORMES
Rallidae

The genus Fulicoffula Clay and Meinertzhagen, 1938 (Entomologist, 71: 5) apparently is restricted to this family. For a discussion of the genus see Emerson, 1960, J. Kansas Ent. Soc., 33: 162.

The genus Incidifrons Ewing, 1929, (Manual External Parasites: 111 and 189) apparently is restricted to this family.

The genera Laemobothrion, Pseudomenopon, and Rallicola have been mentioned previously.

GRUIFORMS
Rallidae

Rallus elegans Audubon--King Rail

Rallicola ortygometrae californicus (Kellogg and Chapman, 1899)
(Type host: Rallus longirostris Boddaert)

Rallus longirostris Boddaert--Clapper Rail

Rallicola ortygometrae californicus (Kellogg and Chapman, 1899)
Oncophorus bisetosus californicus Kellogg and Chapman, 1899.
Occ. Pap. Calif. Acad. Sci., 6: 106, pl. 7, fig. 6.

Rallus limicola Vieillot--Virginia Rail

Fulicoffula comstocki (Kellogg and Chapman, 1902)
Lipeurus comstocki Kellogg and Chapman, 1902. J. N. Y.
Ent. Soc., 10: 23, pl. 3, fig. 2.

Incidifrons monachus (Kellogg and Paine, 1911)
Docophorus pertusus monachus Kellogg and Paine, 1911. Ent.
News, 22: 75, fig. 1.

Rallicola kelloggi Emerson, 1957
Rallicola kelloggi Emerson, 1957. Proc. Ent. Soc. Wash.,
59: 188, fig. 3.

Porzana carolina (Linnaeus)--Sora

Fulicoffula americana Emerson, 1960
Fulicoffula americana Emerson, 1960. J. Kansas Ent. Soc.,
33: 162, figs. 1-4.

Fulicoffula distincta Emerson, 1960
Fulicoffula distincta Emerson, 1960. J. Kansas Ent. Soc.,
33: 162, figs. 5-7.

Rallicola mystax (Giebel, 1874)
(Type host: Porzana porzana Linnaeus)
(Nirmus mystax Giebel, 1874. Insects Epizoa: 301)

Rallicola ortygometrae subporzanae Emerson, 1957)
Rallicola ortygometrae subporzanae Emerson, 1957. Proc.
Soc. Wash., 59: 186, fig. 2.

Coturnicops noveboracensis (Gmelin)--Yellow Rail

Rallicola porzanae (Piaget, 1889)

Oncophorus bisetosus porzanae Piaget, 1880. Les
Pediculines: 218.

Crex crex (Linnaeus)--Corn Crane

Rallicola ortygometrae ortygometrae (Schränk, 1781)

Pediculus ortygometrae Schränk, 1781. Enum. Ins.
Austr. Indig.: 503.

Nirmus attenuatus Burmeister, 1838. Handb. Ent., 2: 428.
(nn for P. ortygometrae Schränk, 1781)

Porphyryla martinica (Linnaeus)--Purple Gallinule

Rallicola elliotti Emerson, 1955

Rallicola elliotti Emerson, 1955. Ann. Ent. Soc. Amer.
48: 296, figs. 23 and 25.

Gallinula chloropus (Linnaeus)--Common Gallinule

Fulicoffula gallinula Carriker, 1953

Fulicoffula gallinula Carriker, 1953. Florida Ent.,
36: 158, figs. 4-6.

Incidifrons gallinulae Blagoveshtchensky, 1951

Incidifrons pertusus gallinulae Blagoveshtchensky, 1951.
Mag. Parasit., Leningr. 13: 293, fig. 9.

Laemobothrion chloropodis (Schränk, 1803)

Pediculus chloropodis Schränk, 1803. Fauna Boica: 189.

Pseudomenopon pilosum (Scopoli, 1763)

(Type host: Fulica atra (Linnaeus))

Pediculus pilosum Scopoli, 1763, Ent. Carniolica: 384.

Menopon tridens Burmeister, 1838. Handb. Ent., 2: 440.

Menopon tridens major Piaget, 1880. Les Pediculines: 480.

Menopon tridens pacificum Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 166.

Pseudomenopon thompsoni Eichler, 1937. S. B. Ges. Naturf.

Fr. Berlin, 1937: 97. (nn for Menopon tridens major Piaget,
1880).

Rallicola minutus (Nitzsch, 1866)

Nirmus minutus Nitzsch, 1866. In Giebel, Z. ges. Nat. Wiss., 28: 375.

Nirmus parvulus Piaget, 1880. Les Pediculines: 669, pl. 55, fig. 6.

Rallicola bisetosa microcephala Uchida, 1948. Jap. Med. J.,
1: 307.

Fulica americana Gmelin--American Coot

Fulicoffula longiphila (Kellogg, 1896)

Lipeurus longiphilus Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 119, pl. 7, fig. 7.

Lipeurus picturatus Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 121, pl. 8, figs. 1-2.

Incidifrons transpositus (Kellogg, 1896)

Docophorus transpositus Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 478, pl. 65, fig. 6.

Laemobothrion atrum (Nitzsch, 1818)

(Type host: Fulica atra Linnaeus)

Liotheum atrum Nitzsch, 1818. Germar's Mag. Ent., 3: 302.

Laemobothrion nigrum Burmeister, 1838. Handb. Ent. 2: 442.

Laemobothrion lathrobium Kolenati, 1846. Melet. Ent., 5: 139, pl. 19, fig. 6.

Pseudomenopon pilosum (Scopoli, 1763)

(Type host: Fulica atra Linnaeus)

Rallicola advenus (Kellogg, 1896)

Oncophorus advena Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 133, pl. 11, figs. 1-2.

Docophorus minuto-trabeculatus Osborn, 1896. Bull. U. S. Bur. Ent. (n.s.), 5: 221.

CHARADRIIFORMES
Jacanidae

The parasites found on the Jacanidae are not well known. The genera are those normally found on the Rallidae rather than the genera found on the remainder of the Charadriiformes.

CHARADRIIFORMES
Jacanidae

Jacana spinosa (Linnaeus)--Jacana

Rallicola exiguifrons (Carriker, 1944)

Parricola exiguifrons Carriker, 1944. Bol. Ent. Venezol.,
3: 97, pl. 5, figs. 5-7.

CHARADRIIFORMES
Haematopodidae

The genus Actornithophilus Ferris, 1916 (Canad, Ent., 48: 303) is found on several families of the order Charadriiformes. For a discussion of the genus, see Clay, 1962, Bull. Brit. Mus. (N.H.), Ent., 11: 191.

The genus Austromenopon Bedford, 1939 (Onderstepoort J. Vet. Sci., 12: 122) is found on several families of the order Charadriiformes. Clay, 1959 (Proc. R. Ent. Soc. Lond., (B), 28: 157) provides a key to the species found on the order Charadriiformes.

The genus Lunaceps Clay and Meinertzhagen, 1939 (Ann. Mag. Nat. Hist., (11), 4: 450) is found on several families of the order Charadriiformes. For a discussion of the genus see Timmermann, 1954, Ann. Mag. Nat. Hist., (12), 7: 623.

CHARADRIIFORMES
Haematopodidae

Haematopus palliatus Temminck--American Oystercatcher*

Actornithophilus grandiceps (Piaget, 1880)

Colpocephalum graniceps Piaget, 1880. Les Pediculines: 558, pl. 46, fig. 7.

Colpocephalum laticeps Mjöberg, 1910. (nec Kellogg, 1896). Ark. Zool., 6: 42, pl. 2, fig. 4.

Austromenopon haematopi Timmermann, 1954

Austromenopon haematopi Timmermann, 1954. Bonn. Zool. Beitr., 5: 199, fig. 6.

Luniceps haematopi Timmermann, 1954

Luniceps haematopi Timmermann, 1954. Ann. Mag. Nat. Hist., (12), 7: 635.

Quadriceps auratus (DeHaan, 1829)

Docophorus auratus DeHaan, 1829. In Lyonet, Me. Mus. Hist. Nat. Paris, 18: 272 and 310, pl. 13, fig. 9.

Nirmus haematopi Denny, 1842. Mon. Anopl. Brit.: 50 and 126, pl. 10, fig. 3.

Nirmus ochropygos Nitzsch, 1866. In Giebel, Z. ges. Natwiss., 28: 372.

Nirmus ridgwayi Kellogg, 1906. Trans. Amer. Ent. Soc., 32: 317.

Saemundssonina haematopi (Linnaeus, 1758)

Pediculus haematopi Linnaeus, 1758, Syst. Nat., ed. 10: 613.

Pediculus haematopodis Gmelin, 1788. Syst. Nat.: 2919

(nn for P. haematopi Linnaeus, 1758).

Nirmus glaucus Stephens, 1829. Cat. Brit. Ins.: 332

(nn for P. haematopodis "Linnaeus")

Docophorus acanthus Giebel, 1874. Insecta Epizoa: 101.

Docophorus haematopi Giebel, 1874. Insecta Epizoa: 101.

(nn for D. acanthus Giebel, 1874).

Haematopus bachmani Audubon--Black Oystercatcher*

* Mallophaga cannot be separated from those found on Haematopus ostralegus Linnaeus, type host for the species listed.

CHARADRIIFORMES
Charadriidae

The genera Actornithophilus, Austromenopon, Quadriceps, and Saemundssonina have been discussed previously. The references given previously for Actornithophilus and Austromenopon include the species found on this family.

CHARADRIIFORMES
Charadriidae

Vanellus vanellus (Linnaeus)--Lapwing

Actornithophilus gracilis (Piaget, 1880)

Colpocephalum gracile Piaget, 1880. Les Pediculines: 555,
pl. 46, fig. 5.

Liotheum scopularium Neumann, 1912, Arch. Parasit.,
15: 370, fig. 16.

Actornithophilus sobodyae Balat, 1953. Zool. Ent. Listy.
2: 100, 101, 105, fig. 4.

Actornithophilus sobodyi Balat, 1957. Acta Veterinaria,
7: 445 (nn for A. sobodyae Balat, 1953).

Austromenopon aegialitidis (Durrant, 1906)

(Type host: Charadrius vociferus Linnaeus)

Quadriceps junceus (Scopoli, 1763)

Pediculus junceus Scopoli, 1763. Ent. Carniolica: 384.

Nirmus vanelli Denny, 1842. (nec Schrank, 1803). Mon.

Anopl. Brit.: 51 and 128, pl. 7, fig. 6.

Saemundssonina platygaster temporalis (Giebel, 1874)

Docophorus temporalis Giebel, 1874. Insecta Epizoa: 102.

Charadrius semipalmatus Bonaparte--Semipalmated Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)
Liotheum ochraceum Nitzsch, 1818. German's Mag. Ent., 3: 299.
Colpocephalum flavipes Giebel, 1874. Insecta Epizoa: 276.
Colpocephalum timidum Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 145, pl. 12, fig. 6.
Colpocephalum perplanum Kellogg and Chapman, 1899. Occ. Pap. Calif. Acad. Sci., 6: 109, pl. 7, fig. 8.
Actornithophilus perrarus Blagoveshtchensky, 1948. Mag. Parasit., Leningr., 10: 270, fig. 8.
Actornithophilus laveni Eichler, 1953. Die Vogelwarte, 16: 173.

Actornithophilus sabulosus Clay, 1962

Actornithophilus sabulosus Clay, 1962. Bull. Brit. Mus. (N.H.), Ent., 11: 228, pl. 4, fig. 3; pl. 9, fig. 1; and t.f. 7, 12, 18, 61 and 62.

Austromenopon aegialitidis (Durrant, 1906)

(Type host: Charadrius vociferus Linnaeus)

Quadriceps fissus (Burmeister, 1838)

(Type host: Charadrius hiaticula Linnaeus)
Nirmus fissus Burmeister, 1838. Handb. Ent., 2: 427.
Nirmus hiaticulae Denny, 1842 (nec O. Fabricius, 1780).
Mon. Anopl. Brit.: 52 and 136, pl. 11, fig. 10.
Nirmus crassipes Denny, 1852. List. Brit. Animals in Brit. Mus., pt. II, Anoplura: 21 (nn for N. fissus Burmeister, 1838).
Nirmus opacus Kellogg and Chapman, 1899. Occ. Pap. Calif. Acad. Sci., 6: 83, pl. 6, fig. 6.

Quadriceps hiaticulae hiaticulae (O. Fabricius, 1780)

(Type host: Charadrius hiaticula Linnaeus)
Pediculus hiaticulae O. Fabricius, 1789. Fauna Groenlandica: 220.
Quadriceps praegracilis Carriker, 1956. Rev. Brasil. Ent., 5: 136, fig. 22.

Saemundssonis platygaster platygaster (Denny, 1842)

(Type host: Charadrius hiaticula Linnaeus)
Docophorus platygaster Denny, 1842. Mon. Anopl. Brit.: 44 and 83, pl. 2, fig. 5.
Docophorus peristicta Kellogg and Kuwana, 1902. Proc. Wash. Acad. Sci., 4: 462, pl. 28, fig. 2.
Philopterus chenamycha Seguy, 1949. Mem. Inst. Sci. Madagascar, 2A: 166, figs. 3-5.
Saemundssonis optimalis Eichler, 1953. In Neithammer, Bonn. Zool. Beitr., 4: 275, fig. 37.

Charadrius melodus Ord--Piping Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)

Austromenopon aegialitidis (Durrant, 1906)

(Type host: Charadrius vociferus Linnaeus)

Quadriceps assimilis major (Kellogg, 1899)

(Type host: Charadrius alexandrinus Linnaeus)

Saemundssonina platygaster platygaster (Denny, 1842)

(Type host: Charadrius hiaticula Linnaeus)

Charadrius alexandrinus Linnaeus--Snowy Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)

Austromenopon aegialitidis (Durrant, 1906)

(Type host: Charadrius vociferus Linnaeus)

Quadriceps assimilis major (Kellogg, 1899)

Nirmus fissus major Kellogg, 1899. Occ. Pap. Calif. Acad. Sci., 6: 15, pl. 2, fig. 2.

Nirmus macrocephalus Waterston, 1914. Ann. S. Afr. Mus., 10: 284, pl. 35, figs. 2 and 5.

Saemundssonina platygaster platygaster (Denny, 1842)

(Type host: Charadrius hiaticula Linnaeus)

Charadrius wilsonia Ord--Wilson's Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)

Austromenopon aegialitidis (Durrant, 1906)

(Type host: Charadrius vociferus Linnaeus)

Quadriceps assimilis major (Kellogg, 1899)

(Type host: Charadrius alexandrinus Linnaeus)

Saemundssonina platygaster platygaster (Denny, 1842)

(Type host: Charadrius hiaticula Linnaeus)

Charadrius vociferus Linnaeus--Killdeer

Austromenopon aegialitidis (Durrant, 1906)

Menopon aegialitidis Durrant, 1906. Ohio Nat., 6: 529, fig. 1c.

Quadriceps hiaticulae boophilus (Kellogg, 1896)

Nirmus boophilus Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 107, pl. 5, fig. 7.

Nirmus parallelus Osborn, 1896. Bull. U. S. Bur. Ent. (n.s.) 5: 229, pl. 2, fig. d.

Saemundssonina concia concia (Denny, 1842)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)

Docophorus conicus Denny, 1842. Mon. Anopl. Brit.: 45 and 90, pl. 5, fig. 2.

Docophorus fuliginosus hawaiiensis Kellogg and Chapman, 1902. J. N. Y. Ent. Soc., 10: 157.

Philoterus wallacei Johnson and Harrison, 1912. Trans. N. Z. Inst., 44: 370, figs. 5-6.

Philoterus numenicola Johnson and Harrison, 1912. Trans. N. Z. Inst., 44: 372, figs. 11-12.

Eupoda montana (Townsend)--Mountain Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)

Quadriceps assimilis assimilis (Piaget, 1890)

(Type host: Eupoda asiatica (Pallas))

Nirmus assimilis Piaget, 1890. Proc. Ent. Soc. Lond., 1890: 23, fig.

Pluvialis dominica (Müller)--American Golden Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvialis apricaris oreophilos Meinertzhagen)

Quadriceps charadrii orarius (Kellogg, 1896)

Nirmus orarius Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 104, pl. 5, fig. 5.

Nirmus orarius hawaiiensis Kellogg and Chapman, 1902. J. N. Y. Ent. Soc., 10: 159.

Saemundssonina conica conica (Denny, 1842)

(Type host: Pluvialis apricaria oreophilos Meinertzhagen)

Squatarola squatarola (Linnaeus)--Black-bellied Plover

Actornithophilus ochraceus (Nitzsch, 1818)

(Type host: Pluvalis apricaris oreophilos Meinertzhagen)

Austromenopon squatarolae Timmermann, 1954

Austromenopon squatarolae Timmermann, 1954. Bonn.
Zool. Beitr., 5: 199.

Quadriceps charadrii hospes (Nitzsch, 1866)

Nirmus hospes Nitzsch, 1866. In Giebel, Z. ges. NatWiss.,
28: 371.

Nirmus vanelli Denny, 1842 (nec Schrank, 1803). Mon.
Anopl. Brit.: 51 and 128, pl. 7, fig. 6.

Saemundssonina conica naumanni (Giebel, 1874)

Docophorus naumanni Giebel, 1874. Insecta Epizoa: 100.

Docophorus fuliginosus Kellogg, 1896. Proc. Calif. Acad.
Sci. 6: 80, pl. 3, fig. 2.

Arenaria interpres (Linnaeus)--Ruddy Turnstone

Actornithophilus bicolor (Piaget, 1880)

Colpocephalum bicolor Piaget, 1880. Les Pediculines: 561, pl. 47, fig. 1.

Colpocephalum paetulum Kellogg and Kuwana, 1900. Proc. Acad. Sci. Philad., 23: 157, pl. 7, fig. 4.

Colpocephalum spinulosm obscurum Carriker, 1910 (nec Giebel, 1874). Ent. News, 21: 52.

Colpocephalum ocularis Carriker, 1910. Ent. News, 21: 52, pl. 5, fig. 1.

Colpocephalum tigrum Kellogg and Mann, 1912. Ent. News, 23: 64.

Actornithophilus pediculoides (Mjöberg, 1910)

Colpocephalum pediculoides Mjöberg, 1910. Ark. Zool., 6: 44, pl. 2, fig. 6.

Quadriceps strepsilaris (Denny, 1842)

Nirmus strepsilaris Denny, 1842. Mon. Anopl. Brit.: 52 and 155, pl. 11, fig. 4.

Nirmus subcingulatus Nitzsch, 1866. In Giebel, Z. ges. NatWiss., 28: 372.

Nirmus euprepes Kellogg and Chapman, 1902. J. N. Y. Ent. Soc., 10: 21, pl. 3, fig. 1.

"Saemundssonina cordiceps (Piaget, 1880) (nec Giebel, 1874)"

Docophorus cordiceps Piaget, 1880 (nec Giebel, 1874). Les Pediculines: 664, pl. 54, fig. 7.

Saemundssonina tringae (O. Fabricius, 1780)

(Type host: Erolia maritima (Brünnich))

Arenaria melanocephala (Vigors)--Black Turnstone

The Mallophaga on this host apparently cannot be separated from those found on Arenaria interpres (Linnaeus)--Ruddy Turnstone.

CHARADRIIFORMES
Scolopacidae

The references given for Actornithophilus, Austromenopon, and Lunaceps include the species found on this family.

The species of Quadraceps parasitic on Tringinae have been reviewed by Hopkins and Timmermann, 1954, Trans. R. Ent. Soc. Lond., 105: 131. The remaining species of Quadraceps on this family have not been reviewed.

The several studies todate of Saemundssonina found on this family are not satisfactory. The classification used here may be too conservative, but in the absence of a thorough revision it seems warranted.

The genus Carduiceps Clay and Meinertzhagen, 1939 (Ann. Mag. Nat. Hist., (11), 4: 451) is found only on this family. For a discussion of the genus see Timmermann, 1954, Ann. Mag. Nat. Hist., (12), 7: 40.

The genus Cummingsiella Ewing, 1930 (Proc. Biol. Soc. Wash., 42: 125) is found only on this family.

The genus Rhynonirmus Thompson, 1935 (Parasitology, 27: 281) is found only on this family. For a discussion of the genus see Clay, 1961, Bull. Brit. Mus. (N.H.), Ent., 11: 50.

The genus Rotundiceps Edwards, 1952 (Psyche, 59: 28) is monotypic.

CHARADRIIFORMES
Scolopacidae

Philohela minor (Gmelin)--American Woodcock

Rhynonirmus parsonae Clay, 1961

Rhynonirmus parsonae Clay, 1961. Bull. Brit. Mus. (N.H.),
Ent., 11: 50, figs. 9-11, and plate 1, figs. 2, 5 and 6.

Capella gallinago (Linnaeus)--Common Snipe

Actornithophilus stictus (Kellogg and Paine, 1911)

Colpocephalum stictum Kellogg and Paine, 1911. Ent. News,
22: 77, fig. 2.

Austromenopon durisetosum (Blagoveshtchensky, 1948)

Menopon durisetosum Blagoveshtchensky, 1948. Mag.
Parasit., Leningr., 10: 263, fig. 3.

Cummingsiella ambigua (Burmeister, 1838)

Docophorus ambiguus Burmeister, 1838. Handb. Ent., 2: 426.
Docophorus amphibolus Giebel, 1861. Z. ges. NatWiss.,
18: 314 (nn for D. ambiguus Burmeister, 1838).
Docophorus nirmicides Piaget, 1880. Les Pediculines: 104,
pl. 9, fig. 2.
Docophorus nirmoides major Waterston, 1912 (nec Kellogg,
1896). Ent. Mon. Mag., 23: 62.

Rhynonirmus scolopacis (Denny, 1842)

Nirmus scolopacis Denny, 1842. Mon. Anopl. Brit.: 54
and 149, pl. 2, fig. 8.
Nirmus truncatus Nitzsch, 1866 (nec Olfers, 1816). In
Giebel, Z. ges. NatWiss., 28: 375.
Lipeurus emarginatus Piaget, 1885. Les Pediculines: 328,
pl. 28, fig. 2.
Nirmus truncatus magnocephalus Carriker, 1902. J. N. Y.
Ent. Soc., 10: 2-8, pl. 20, fig. 4.

Saemundssonina kratochvili Balat, 1950

Saemundssonina kratochvili Balat, 1950. Folia Ent., Brno,
13: 109 and 112, figs. 3 and 3a.

Numenius americanus Bechstein--Long-billed Curlew

Cummingsiella longirostricola (Wilson, 1937)

Philopterus longirostricola Wilson, 1937. Canad. Ent.,
69: 264, figs. 1-2.

Lunaceps numenii numenii (Denny, 1842)

(Type host: Numenius arquata (Linnaeus))

Nirmus numenii Denny, 1842. Mon. Anopl. Brit.: 53 and
144, pl. 9, fig. 6.

Nirmus inaequalis Piaget, 1880. Les Pediculines: 176,
pl. 15, fig. 4.

Saemundssonina scolopaciphaeopodis (Schrank, 1803)

(Type host: Numenius phaeopus (Linnaeus))

Numenius phaeopus (Linnaeus)--Whimbrel

Actornithophilus ocellatus (Rudow, 1869)

Colpocephalum ocellatum Rudow, 1869. Z. ges. NatWiss.,
34: 392.

Austromenopon phaeopodis (Schrank, 1802)

Pediculus phaeopodis Schrank, 1802. Briefe Natur.-----: 361.

Menopon ambiguum Nitzsch 1874. In Giebel, Insecta
Epizoa: 295.

Lunaceps numenii phaeopi (Denny, 1842)

Nirmus phaeopi Denny, 1842. Mon. Anopl. Brit.: 54 and
144, pl. 10, fig. 7.

Nirmus phaeopodis Giebel, 1874. Insecta Epizoa: 166.

Nirmus trimaculatus Piaget, 1880. Les Pediculines: 174,
pl. 14, fig. 8.

Degeeriella oliveri Johnston and Harrison, 1812. Trans.
N. Z. Inst., 44: 367, fig. 3.

Saemundsson scolopacisphaeopodis (Schränk, 1803)

Pediculus scolopacisphaeopodis Schränk, 1803. Fauna
Boica: 191.

Docophorus humeralis Denny, 1842. Mon. Anopl. Brit.: 45,
88, pl. 5, fig. 7.

Docophorus rotundus Rudow, 1869. Beitr. Kenntn. Malloph.: 11.

Philopterus armatus Johnston and Harrison, 1912. Trans.
N. Z. Inst., 44: 370, figs. 7-10.

Docophorus viridicola Kellogg, 1914. Sci. Bull. Brooklyn
Inst., 2: 82, pl. 16, fig. 2.

Saemundsson humeralis americana Carriker, 1956. Florida
Ent., 39: 31, figs. 24-25.

Numenius tahitiensis (Gmelin)--Bristle-thighed Curlew

Lunaceps numenii hopkinsi Timmermann, 1954

Lunaceps hopkinsi Timmermann, 1954. Ann. Mag. Nat.
Hist. (12), 7: 634, fig. 5e.

Saemundsson scolopacisphaeopodis (Schränk, 1803)

(Type host: Numenius phaeopus (Linnaeus))

Numenius borealis (J. R. Forster)--Eskimo Curlew

Lunaceps numenii rileyi Timmermann, 1954

Lunaceps rileyi Timmermann, 1954. Ann. Mag. Nat. Hist.,
(12), 7: 635, fig. 5h.

Saemundsson scolopacisphaeopodis (Schränk, 1803)

(Type host: Numenius phaeopus (Linnaeus))

Bartramia longicauda (Bechstein)--Upland Plover

Rhynonirmus infuscatus (Osborn, 1896)

Lipeurus infuscatus Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 234, pl. 2, figs. e and f.

Actitis macularia (Linnaeus)--Spotted Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)

(Type host: Erolia testacea (Pallas))

Colpocephalum umbrinum Burmeister, 1838. Handb. Ent., 2: 438.

Colpocephalum brilobatum Giebel, 1874. Insecta Epizoa: 275.

Colpocephalum umbrinum Piaget, 1880 (nec Burmeister, 1838).

Les Pediculines: 556, pl. 46, fig. 6.

Colpocephalum spinulosum minor Kellogg and Chapman, 1899
(nec Piaget, 1880). Occ. Pa. Calif. Acad. Sci., 6: 112,
pl. 7, fig. 9.

Colpocephalum morsitans Kellogg and Mann, 1912. Ent.
News. 23: 15, fig. 3.

Colpocephalum umbrosum Harrison, 1916. Parasitology,
9: 56 (nn for C. umbrinum Piaget, 1880).

Actornithophilus albus Emerson, 1948. Ent. News, 59: 178,
figs. 1-2. (nn for C. spinulosum minor Kellogg and Chapman, 1899).

Actornithophilus hrabei Balat, 1953. Zool. Ent. Listy,
2: 98 and 104, fig. 2.

Actornithophilus hirsutus Carriker, 1954. Florida Ent.,
37: 139, fig. 1.

Quadriceps rarus (Kellogg, 1899)

Nirmus furvus rarus Kellogg, 1899. Occ. Pap. Calif. Acad.
Sci., 6: 14, pl. 2, fig. 1.

Degeeriella subfusca Blagoveshtchensky, 1948. Mag. Parasit.,
Leningr., 10: 286, figs. 20 and 20a.

Saemundssonina platygaster nitzschi (Giebel, 1866)

(Type host: Tringa erythropus (Pallas))

Docophorus nitzschi Giebel, 1866. Z. ges. NatWiss., 28: 361.

Docophorus cordiceps Giebel, 1874. Insecta Epizoa: 103.

Docophorus frater Giebel, 1874. Insecta Epizoa: 103.

Docophorus glareolae Giebel, 1874. Insecta Epizoa: 103.

Docophorus mollis Nitzsch, 1874. In Giebel, Insecta Epizoa: 103.

Docophorus cephalosus Carriker, 1902. J. N. Y. Ent. Soc.
10: 217, pl. 20, fig. 1.

Tringa solitaria Wilson--Solitary Sandpiper

Quadriceps waterstoni Hopkins and Timmermann, 1954

Quadriceps waterstoni Hopkins and Timmermann, 1954. Trans.
R. Ent. Soc. London, 105: 143, fig. 9; pl. 2, figs. 11-12.

Saemundssonina platygaster nitzschi (Giebel, 1866)

(Type host: Tringa erythropus (Pallas))

Heteroscelus incanum (Gmelin)--Wandering Tattler

Actornithophilus kilauensis (Kellogg and Chapman, 1902)

Colpocephalum kilauensis Kellogg and Chapman, 1902, J. N.
Y. Ent. Soc., 10: 161, pl. 14, fig. 1.

Quadriceps impar Hopkins and Timmermann, 1954

Quadriceps impar Hopkins and Timmermann, 1954. Trans.
R. Ent. Soc. London, 105: 147, fig. 12; pl. 2, figs. 17-18.

Catoptrophorus semipalmatus (Gmelin)--Willet

Actornithophilus lacustris Clay, 1962

Actornithophilus lacustris Clay, 1962. Bull. Brit. Mus.
(N.H.), Ent., 11: 220, pl. 5, figs. 1 and 4; pl. 11, fig. 5
and t.f. 20.

Austromenopon sachtlebeni Timmermann, 1954

Austromenopon sachtlebeni Timmermann, 1954. Bonn. Zool.
Beitr., 5: 202, fig. 11.

Quadriceps carrikeri Hopkins and Timmermann, 1954

Quadriceps carrikeri Hopkins and Timmermann, 1954. Trans.
R. Ent. Soc. London, 105: 147, fig. 13; pl. 2, figs. 19-20.

Totanus melanoleus (Gmelin)--Greater Yellowlegs

Actornithophilus paludosus Clay, 1962.

(Type host: Tringa nebularis (Gunnerus))

Actornithophilus paludosus Clay, 1962. Bull. Brit.

Mus. (N.H.), Ent., 11: 219, pl. 5, figs. 3 and 6; t.f. 47.

Quadriceps similis (Giebel, 1866)

(Type host: Tringa nebularis (Gunnerus))

Nirmus similis Giebel, 1866. Z. ges. NatWiss., 28: 374.

Nirmus interruptus Piaget, 1880. Les Pediculines: 173,
pl. 14, fig. 6.

Nirmus clypeatus Kellogg and Paine, 1914. Rec. Indian
Mus., 10: 237, pl. 14, fig. 3.

Degeeriella austini Peters, 1931. Ann. Ent. Soc. Amer.,
24: 585, fig. 2.

Degeeriella dissimilis Blagoveshtchensky, 1948. Mag.
Parasit., Leningr., 10: 283, figs. 15 and 15a.

Saemundssonina platygaster nitzschi (Giebel, 1866)

(Type host: Tringa erythropus (Pallas))

Totanus flavipes (Gmelin)--Lesser Yellowlegs

Actornithophilus totani (Schrank, 1803)

(Type host: Tringa totanus (Linnaeus))

Pediculus totani Schrank, 1803. Fauna Boica: 191.

Colpocephalum affine Nitzsch, 1874. In Giebel, Insecta
Epizoa: 276.

Quadriceps falcigerus (Peters, 1931)

Degeeriella falcigera Peters, 1931. Ann. Ent. Soc. Amer.,
24: 583, fig. 1.

Saemundssonina platygaster nitzschi (Giebel, 1866)

(Type host: Tringa erythropus (Pallas))

Calidris canutus (Linnaeus)--Knot

Actornithophilus umbrinus (Burmeister, 1838)

(Type host: Actitis macularia (Linnaeus))

Carduiceps zonarius (Nitzsch, 1866)

(Type host: Erolia minuta (Leisler))

Nirmus zonarius Nitzsch, 1866. Z. ges. NatWiss., 28: 274.

Nirmus complexivus Kellogg and Chapman, 1899. Occ.

Pap. Calif. Acad. Sci., 6: 75, pl. 6, fig. 3.

Carduiceps eroliae Carriker, 1956. Florida Ent., 39: 123, figs. 68-70b.

Carduiceps pusillus Carriker, 1956. Florida Ent., 39: 125, figs. 70a, 71-72.

Luniceps holophaeus drosti Timmermann, 1954

Luniceps drosti Timmermann, 1954. Ann. Mag. Nat. Hist., (12), 7: 627, fig. 1b.

Saemundssonia platygaster islandica Timmermann, 1951

Saemundssonia platygaster islandica Timmermann, 1951. Ann. Mag. Nat. Hist., (12), 4: 395.

Saemundssonia tringae (O. Fabricius, 1780)

(Type host: Erolia maritima (Brünnich))

Erolia maritima (Brünnich)--Purple Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps meinertzhageni Timmermann, 1954
(Type host: Erolia alpina (Linnaeus))

Lunaceps holophaeus nereis Timmermann, 1954
Lunaceps nereis Timmermann, 1954. Ann. Mag. Nat.
Hist., (12), 7: 628, fig. 1c.

Saemundssonina tringae (O. Fabricius, 1780)
Pediculus tringae O. Fabricius, 1780. Fauna
Groenlandica: 219.
Docophorus canuti Denny, 1842. Mon. Anopl. Brit.: 44
and 84, pl. 3, fig. 5.
Docophorus fusiformis Denny, 1842. Mon. Anopl. Brit.: 44
and 84, pl. 1, fig. 2.
Docophorus varibilis Denny, 1842. Mon. Anopl. Brit.: 42
and 71, pl. 3, fig. 4.
Docophorus alpinus Giebel, 1874. Insecta Epizoa; 105.
Docophorus lari Grube, 1851 (nec O. Fabricius, 1789).
Middendorff's sibir. Reise: 473.
Docophorus arcticus Mjöberg, 1910. Ark. Zool., 6: 122,
fig. 69.
Saemundssonina grubei Eichler, 1942. Zool. Anz., 139: 31
(nn for D. lari Grube, 1851).

Erolia ptilocnemis (Coues)--Rock Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps meinertzhageni Timmermann, 1954
(Type host: Erolia alpina (Linnaeus))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Erolia acuminata (Horsfield)--Short-tailed Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Erolia melanotos (Vieillot)--Pectoral Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Erolia fuscicollis (Vieillot)--White-rumped Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Erolia bairdii (Coues)--Baird's Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Erolia minutilla (Vieillot)--Least Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Erolia alpina (Linnaeus)--Dunlin

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Austromenopon alpinum Timmermann, 1954
Austromenopon alpinum Timmermann, 1954. Bonn. Zool.
Beitr., 5: 202, fig. 8.

Carduiceps meinertzhageni Timmermann, 1954
Carduiceps meinertzhageni Timmermann, 1954. Ann. Mag.
Nat. Hist., (12), 7: 44, fig. 6b.

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Limnodromus griseus (Gmelin)--Short-tailed Dowitcher

Actornithophilus limarius Clay, 1962
(Type host: Limnodromus scolopaceus (Say))

Carduiceps cingulatus cingulatus (Denny, 1842)
(Type host: Limosa limosa (Linnaeus))
Nirmus cingulatus Denny, 1842. Mon. Anopl. Brit.: 54 and
146, pl. 11, fig. 3.

Quadriceps nigrolimbatus (Mjöberg, 1910)
Nirmus nigrolimbatus Mjöberg, 1910. Ark. Zool., 6: 135,
pl. 5, fig. 4.

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia Maritima (Brünnich))

Limnodromus scolopaceus (Say)--Long-tailed Dowitcher

Actornithophilus limarius Clay, 1962
Actornithophilus limarius Clay, 1962. Bull. Brit. Mus.
(N.H.), Ent., 11: 222, pl. 5, figs. 2 and 5; pl. 11, fig. 4.

Carduiceps cingulatus cingulatus (Denny, 1842)
(Type host: Limosa limosa (Linnaeus))

Quadriceps nigrolimbatus (Mjöberg, 1910)
(Type host: Limnodromus griseus (Gmelin))

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Micropalama himantopus (Bonaparte)--Stilt Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Ereunetes pusillus (Linnaeus)--Semipalmated Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Luniceps holophaeus pusillus Carriker, 1956
Luniceps pusillus Carriker, 1956. Florida Ent., 39: 74,
figs. 50-51.

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia Maritima (Brünnich))

Ereunetes mauri Cabania--Western Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Luniceps holophaeus cabanisi Timmermann, 1954
Luniceps cabanisi Timmermann, 1954. Ann Mag. Nat.
Hist., (12), 7: 625, fig. 1a.

Saemundssonina tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

Tryngites subruficollis (Vieillot)--Buff-breasted Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Limosa fedoa (Linnaeus)--Marbled Godwit

Actornithophilus limosae (Kellogg, 1908)

(Type host: Limosa lapponica (Linnaeus))

Austromenopon limosae Timmermann, 1954

(Type host: Limosa limosa (Linnaeus))

Austromenopon limosae Timmermann, 1954. Bonn. Zool.
Beitr., 5: 202, fig. 10.

Carduiceps cingulatus clayae Timmermann, 1954

Carduiceps clayae Timmermann, 1954. Ann. Mag. Nat.
Hist., (12), 7: 42, fig. 4.

Luniceps limcsella clayae Timmermann, 1954

Luniceps clayae Timmermann, 1954. Ann. Mag. Nat.
Hist., (12), 7: 629, fig. 4a.

Rotundiceps cordatus (Osborn, 1896)

Nirmus cordatus Osborn, 1896, Bull. U. S. Bur. Ent.,
(n.s.), 5: 228, pl. 2, fig. a.

Nirmus lucidus Kellogg and Mann, 1912. Ent. News, 23: 60.

Limosa lapponica (Linnaeus)--Bar-tailed Godwit

Actornithophilus limosae (Kellogg, 1908)

Colpocephalum ochraceum Grube, 1851 (nec Nitzsch, 1818).
Middendorff's sibir. Reise, 2: 490.

Colpocephalum limosae Kellogg, 1908. In Wytman's Gen. Ins., Mallophaga: 56 (nn for C. ochraceum Grube, 1851).

Austromenopon meyeri (Giebel, 1874)

Menopon meyeri Giebel, 1874. Insecta Epizoa: 296.

Carduceps cingulatus lapponicus Emerson, 1953

Carduceps lapponicus Emerson, 1953. Proc. Ent. Soc. Wash., 55: 209, fig. 2.

Luniceps limosella limosella Timmermann, 1954

Luniceps limosella Timmermann, 1954. Ann. Mag. Nat. Hist., (12), 7: 629, fig. 4b.

Saemundssonia limosae (Denny, 1842)

Docophorus limosae Denny, 1842. Mon. Anopl. Brit.: 44 and 86, pl. 4, fig. 2.

Docophorus meyeri Giebel, 1874. Insecta Epizoa: 104.

Limosa haemastica (Linnaeus)--Hudsonian Godwit

Luniceps limosella paschalis Timmermann, 1954

Luniceps paschalis Timmermann, 1954. Ann. Mag. Nat. Hist., (12), 7: 630, fig. 4c.

Saemundssonia haemastica Carriker, 1956

Saemundssonia haemastica Carriker, 1956. Florida Ent., 39: 31, figs. 26-28.

Philomachus pugnax (Linnaeus)--Ruff

Actornithophilus pustulosus (Piaget, 1880)

Colpocephalum cornutum Giebel, 1866 (nec Rudow, 1866)

Z. ges. NatWiss., 28: 395.

Colpocephalum pustulosum Piaget, 1880. Les Pediculines: 559,
pl. 46, fig. 8.

Austromenopon lutescens (Burmeister, 1838)

Menopon lutescens Burmeister, 1838. Handb. Ent., 2: 440.

Carduiceps scalaris (Piaget, 1880)

Nirmus scalaris Piaget, 1880. Les Pediculines: 190,
pl. 17, fig. 2.

Luniceps holophaeus holophaeus (Burmeister, 1838)

Nirmus holophaeus Burmeister, 1838. Handb. Ent., 2: 427.

Quadriceps lahorensis Ansari, 1956

Quadriceps lahorensis Ansari, 1956. Indian J. Ent., 1 : 399.

Saemundssonina platygaster ashi Timmermann, 1955.

Saemundssonina scolopacisphaeopodis ashi Timmermann, 1955.
Ann. Mag. Nat. Hist., (12), 8: 514, fig. 1.

Crocethia alba (Pallas)--Sanderling

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Carduiceps zonarius (Nitzsch, 1866)
(Type host: Erolia minuta (Leisler))

Luniceps holophaeus actophilus (Kellogg and Chapman, 1899)
Nirmus actophilus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 78, pl. 6, fig. 4.

Saemundssonia platygaster islandica Timmermann, 1951
(Type host: Calidris canutus (Linnaeus))

Saemundssonia tringae (O. Fabricius, 1780)
(Type host: Erolia maritima (Brünnich))

CHARADRIIFORMES
Recurvirostridae

The genera Actornithophilus, Austromenopon, and Quadriceps have been discussed previously.

The genus Cirrophthirus Timmermann, 1953 (Bombus, no. 78/79: 330) apparently is found only on hosts of the family Recurvirostridae.

CHARADRIIFORMES
Recurvirostridae

Recurvirostra americana Gmelin--American Avocet

Actornithophilus uniseriatum (Piaget, 1880)

(Type host: Recurvirostra avosetta Linnaeus)

Colpocephalum uniseriatum Piaget, 1880. Les Pediculines: 562, pl. 47, fig. 2.

Colpocephalum uniforme Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 142, pl. 12, fig. 4.

Austromenopon micrandum (Nitzsch, 1866)

(Type host: Recurvirostra avosetta Linnaeus)

Menopon micrandum Nitzsch, 1866. In Giebel, Z. ges. Nat. Wiss., 28: 392.

Menopon indistinctum Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 157, pl. 14, figs. 6-7.

Cirrophthirus testudinarius (Children, 1836)

Nirmus testudinarius Children, 1836. In Back, Arctic Land Exped.: 538.

Nirmus biseriatus Children, 1836. In Back, Arctic Land Exped.: 538.

Cummingsiella inexpectata Carriker, 1954. Florida Ent., 37: 192, figs. 10-12.

Quadriceps zephyra (Timmermann, 1954)

Cistellatrix zephyra Timmermann, 1954. Zool. Anz., 152: 165, figs. 1e and 2.

Himantopus mexicanus (Müller)--Black-necked Stilt

Actornithophilus mexicanus Emerson, 1953

Actornithophilus mexicanus Emerson, 1953. J. Kansas Ent. Soc., 26: 134, fig. 4.

Austromenopon himantopi Timmermann, 1954

(Type host: Himantopus himantopus (Linnaeus))

Austromenopon himantopi Timmermann, 1954. Bonn. Zool.

Beitr., 5: 199, fig. 6a.

Austromenopon mohani Ansari, 1955. Indian J. Ent., 17: 400.

Quadriceps hemichrous (Nitzsch, 1866)

(Type host: Himantopus himantopus (Linnaeus))

Nirmus hemichrous Nitzsch, 1866. In Giebel, Z. ges. NatWiss., 28: 372.

Nirmus opisthotomus Kellogg, 1910. Wiss. Ergebn. Schwed. Zool. Exped. Kilimandjaro, 3, abt. 15: 46, pl. 7, fig. 4.

Quadriceps semifissus mexicanus Carriker, 1944

Quadriceps semifissa mexicana Carriker, 1944. Bol. Ent. Venezol., 3: 99, pl. 5, figs. 8-9.

CHARADRIIFORMES
Phalaropodidae

The genera Actornithophilus, Austromenopon, Quadriceps,
and Saemundssonina have been discussed previously.

CHARADRIIFORMES
Phalaropodidae

Phalaropus fulicarius (Linnaeus)--Red Phalarope

Actornithophilus umbrinus (Burmeister, 1838)
(Type Host: Erolia testacea (Pallas))

Austromenopon corporosum (Kellogg and Kuwana, 1900)
Menopon corporosum Kellogg and Kuwana, 1900. Proc.
Acad. Nat. Sci. Philad., 23: 158, pl. 7, fig. 5.

Quadriceps phalaropi (Denny, 1842)
Nirmus phalaropi Denny, 1842. Mon. Anopl. Brit.: 53 and
139, pl. 8, fig. 6.
Nirmus infectus Kellogg and Kuwana, 1900. Proc. Acad.
Nat. Sci. Philad., 23: 153, pl. 7, fig. 2.
Nirmus fulvoguttatus Mjöberg, 1910. Ark. Zool., 6: 139,
pl. 1, fig. 3.

Steganopus tricolor (Vieillot)--Wilson's Phalarope

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Quadriceps fimbriatus (Giebel, 1866)
Nirmus fimbriatus Giebel, 1866. Z. ges. Natwiss., 28: 374.

Saemundssonina tricolor Carriker, 1956
Saemundssonina tricolor Carriker, 1956. Florida Ent.,
39: 32, fig. 29.

Lobipes lobatus (Linnaeus)--Northern Phalarope

Actornithophilus umbrinus (Burmeister, 1838)
(Type host: Erolia testacea (Pallas))

Austromenopon spenceri Timmermann, 1956
Austromenopon spenceri Timmermann, 1956. Bonn. Zool.
Beitr., 7: 192, fig. 7.

Quadriceps connexus (Kellogg and Mann, 1912)
Nirmus infectus connexus Kellogg and Mann, 1912.
Ent. News: 23: 13.

CHARADRIIFORMES
Stercorariidae

The genera Austromenopon, Harrisoniella, Quadriceps, and Saemundssionia were mentioned earlier.

In most literature Harrisoniella grandis is referred to as Perineus grandis. This is an aberrant species, but appears to be closest to the other species of Harrisoniella.

CHARADRIIFORMES
Stercorariidae

Stercorarius pomarinus (Temminck)--Pomarine Jaeger

Austromenopon fuscofasciatum (Piaget, 1880)

Menopon fuscofasciatum Piaget, 1880. Les Pediculines: 492,
pl. 40, fig. 9.

Menopon circinatum Piaget, 1890. Tijdschr. Ent., 33: 249,
pl. 10, fig. 4.

Harrisoniella grandis (Piaget, 1880)

(Type host: Stercorarius sp., probably parasiticus (Linnaeus))

Quadriceps normifer stellaepolaris Timmermann, 1952

Quadriceps normifer stellaepolaris Timmermann, 1952.
Ann. Mag. Nat. Hist., (12), 5: 1037).

Saemundssonina euryrhyncha (Giebel, 1874)

Docophorus euryrhynchus Giebel, 1874. Insecta Epizoa: 112.

Stercorarius parasiticus (Linnaeus)--Parasitic Jaeger

Austromenopon fuscofasciatum (Piaget, 1880)

(Type host: Stercorarius pomarinus (Temminck))

Harrisoniella grandis (Piaget, 1880)

Lipeurus grandis Piaget, 1880. Les Pediculines: 323, pl. 26,
fig. 7.

Lipeurus laculatus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 93, pl. 7, fig. 1.

Perineus piratae Timmermann, 1955. Ann. Mag. Nat.
Hist., (12), 8: 532, fig. 16.

Perineus antarcticus Carriker, 1958, Acta Zool. Lilloana,
15: 186, fig. 7.

Quadriceps normifer normifer (Grube, 1851)

Nirmus normifer Grube, 1851. Middendorf's sibir. Reise,
2: 478, pl. 31, fig. 8.

Nirmus triangulatus Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 378.

Saemundssonina cephalus (Denny, 1842)

Docophorus cephalus Denny, 1842. Mon. Anopl. Brit.: 44 and
81, pl. 2, fig. 8.

Docophorus pustulosus Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 363.

Docophorus lari magna Piaget, 1880. Les Pediculines: 112.

Docophorus atlanticus Kellogg, 1914. Brooklyn Sci. Bull.,
2: 81, pl. 16, fig. 1.

Stercorarius longicaudus Vieillot--Long-tailed Jaeger

Austromenopon fuscofasciatum (Piaget, 1880)

(Type host: Stercorarius pomarinus (Temminck))

Harrisoniella grandis (Piaget, 1880)

(Type host: Stercorarius sp.)

Quadriceps normifer parvopallidus (Eichler, 1951)

Koeniginirmus normifer parvopallidus Eichler, 1951.

Bonn. Zool. Beitr., 1/2: 127 (nn for "Nirmus d'une Lestris spinicauda Piaget, 1880, p. 202").

Catharacta skua Brünnich--Skua

Austromenopon fuscofasciatum (Piaget, 1880)

(Type host: Stercorarius pomarinus (Temminck))

Harrisoniella grandis (Piaget, 1880)

(Type host: Stercorarius sp.)

Quadriceps normifer alpha (Kellogg, 1914)

Nirmus traingulatus alpha Kellogg, 1914. Brooklyn Sci. Bull, 2: 84.

Saemundssonia stresemanni Timmermann, 1949

Saemundssonia stresemanni Timmermann, 1949. Verh. Visind. Isl., (2), 3: 13, figs. 7 and 9.

CHARADRIIFORMES

Laridae

Hosts of this family have at least one species in each of the genera Actornithophilus, Austromenopon, Quadriceps, and Saemundssonina which have been mentioned previously.

For a discussion of the species of Quadriceps found on the Gulls, see Timmermann, 1952, Ann. Mag. Nat. Hist., (12), 5: 209 and 595.

For incomplete discussions of the species of Quadriceps found on the Terns, see Eichler, 1951, Beitr. Bonn. Zool., 2: 125 and Timmermann, 1952, Zool. Anz., 148: 71.

For a discussion of the species of Saemundssonina found on the Gulls, see Timmermann, 1951, Parasit. News, (2), 1: 1. For a discussion of the species of Saemundssonina found on the Terns, see Ward, 1955, Proc. U. S. Nat. Mus., no. 3353, 105: 83.

CHARADRIIFORMES

Laridae

Larus hyperboreus Gunnerus--Glaucous Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps ornatus striolatus (Nitzsch, 1866)
Nirmus striolatus Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 377.

Saemundssonia lari lari (O. Fabricius, 1780)
Pediculus lari O. Fabricius, 1780. Fauna Groenlandica: 219.
Saemundssonia gonothorax lariphaga Timmermann, 1949.
Verh. Visind. Isl. (2), 3: 8.
Saemundssoni gonothorax lariphaga Eichler, 1950 (nec
Timmermann, 1949). Verh. Visind. Isl. (3), 1: 13, figs. 10-13.

Larus glaucoides Meyer--Iceland Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps ornatus striolatus (Nitzsch, 1866)
(Type host: Larus hyperboreus Gunnerus)

Saemundssonia lari breviappendiculata (Piaget, 1880)
(Type host: Larus argentatus Pontoppidan)

Larus glaucescens Naumann--Glaucous-winged Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Larus marinus Linnaeus--Great Black-backed Gull

Actornithophilus picerus lari (Packard, 1870)

Colpocephalum lari Packard, 1870. Amer. Nat., 4: 96,
pl. 1, fig. 1.

Colpocephalum fuscipes Piaget, 1880. Les Pediculines: 567,
pl. 47, fig. 7.

Colpocephalum funebre Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 147, pl. 12, fig. 7.

Colpocephalum Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 523, pl. 71, fig. 5.

Colpocephalum abbotti Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 36, pl. 4, fig. 9.

Colpocephalum grandiculum Kellogg and Chapman, 1899.
Occ. Pap. Calif. Acad. Sci., 6: 113, pl. 7, fig. 10.

Austromenopon transversum (Denny, 1842)

(Type host: Rissa tridactyla (Linnaeus))

Quadriceps ornatus ornatus (Grube, 1851)

(Type host: Larus canus Linnaeus)

Quadriceps ornatus striolatus (Nitzsch, 1866)

(Type host: Larus hyperboreus Gunnerus)

Saemundssonina lari gonothorax (Giebel, 1874)

Docophorus gonothorax Giebel, 1874. Insecta Epizoa: 111.

Docophorus lari parvus Piaget, 1880. Les Pediculines: 112.

Larus schistisagus Stejneger--Slaty-backed Gull

Actornithophilus piceus lari (Packard, 1870)

(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)

(Type host: Rissa tridactyla (Linnaeus))

Larus occidentalis Audubon--Western Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus Marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps punctatus sublingulatus Timmermann, 1952
(Type host: Larus delawarensis Ord)

Saemundssonina lari gonothorax (Giebel, 1874)
(Type host: Larus marinus Linnaeus)

Larus argentatus Pontoppidan--Herring Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps punctatus regressus Timmermann, 1952
Quadriceps punctatus regressus Timmermann, 1952.
Ann. Mag. Nat. Hist., (12), 5: 215.

Saemundssonina lari breviappendiculata (Piaget, 1880)
Docophorus breviappendiculatus Piaget, 1880. Les
Pediculines: 108, pl. 9, fig. 9.

Larus californicus Lawrence--California Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps punctatus sublingulatus Timmermann, 1952
(Type host: Larus delawarensis Ord)

Larus delawarensis Ord--Ring-billed Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps punctatus sublingulatus Timmermann, 1952
Quadriceps punctatus sublingulatus Timmermann, 1952.
Ann. Mag. Nat. Hist., (12), 5: 215.

Saemundssonina lari congener (Giebel, 1874)
(Type host: Larus canus Linnaeus)

Larus canus Linnaeus--Mew Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps ornatus ornatus (Grube, 1851)
Nirmus ornatus Grube, 1851, Middendorff's sibir. Reise,
2: 477, pl. 31, fig. 4.
Nirmus lineolatus atrimarginatus Kellogg and Chapman, 1899.
Occ. Pap. Calif. Acad. Sci., 6: 75.

Quadriceps ornatus striolatus (Nitzsch, 1866)
(Type host: Larus hyperboreus Gunnerus)

Saemundssonina lari congener (Giebel, 1874)
Docophorus congener Giebel, 1874. Insecta Epizoa: 111.
Pediculus lari Larrangaga, 1928 (nec O. Fabricius, 1780).
In Vogelsang, Ann. Mus. Hist. Nat. Montevideo (2), 2: 429.

Larus atricilla Linnaeus--Laughing Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Saemundssonina lari atricilla Carriker, 1956
Saemundssonina atricilla Carriker, 1956. Florida Ent.,
39: 29, figs. 21-23.

Larus pipixcan Wagler--Franklin's Gull

Actornithophilus piceus lari (Packard, 1870).
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Larus philadelphia (Ord)--Bonaparte's Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps punctatus sublingulatus Timmermann, 1952
(Type host: Larus delawarensis Ord)

Larus minutus Pallas--Little Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps eugrammicus eugrammicus (Burmeister, 1838)
Nirmus eugrammicus Burmeister, 1838. Handb. Ent., 2: 428.
Phlopterus grammicus Gervais, 1844. In Walckenaer,
Hist. Nat. Ins., 3: 350 (nn for N. eugrammicus Burmeister, 1838).

Saemundssonina inexpectata Timmermann, 1951
Saemundssonina inexpectata Timmermann, 1951. Parasit.
News, (2), 1: 9, fig. 1.

Saemundssonina lari waterstoni Timmermann, 1951
Saemundssonina lari waterstoni Timmermann, 1951. Parasit.
News, (2), 1: 8.

Larus heermanni Cassin--Heermann's Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps punctatus felix (Giebel, 1874)
Nirmus felix Giebel, 1874. Insecta Epizoa: 175.
Koeniginirmus punctatus kelloggi Eichler, 1951.
Bonn. Zool. Beitr., 2: 132.

Saemundssonina lari meinertzhageni Timmermann, 1951
Saemundssonina lari meinertzhageni Timmermann, 1951.
Parasit. News, (2), 1: 8.

Pagophila eburnea (Phipps)--Ivory Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Saemundssonina lari pagophilae Timmermann, 1949
Saemundssonina gonothorax pagophilae Timmermann, 1949.
Verh. Visind. Isl., 3: 8, figs. 2 and 3.

Rissa tridactyla (Linnaeus)--Black-legged Kittiwake

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
Menopon transversum Denny, 1842. Mon. Anopl. Brit.: 201
and 226, pl. 21, fig. 7.
Menopon ridibundis Denny, 1842. Mon. Anopl. Brit.: 201
and 227, pl. 20, fig. 3.
Menopon obtusum Giebel, 1866. Z. ges. NatWiss., 28: 392.
Menopon phaeopus Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 392.
Menopon pachypus Piaget, 1888. Tijdschr. Ent., 31: 161,
pl. 4, fig. 4.
Menopon infrequens Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 161, pl. 15, fig. 5.
Menopon lemniscatum Enderlein, 1908. Dtsch. südpoler
Exped. Zool., 2: 456, pl. 62, figs. 203, 207 and 210.

Quadriceps ornatus paulschulzei (Timmermann, 1949)
Koeniginirmus ornatus paulschulzei Timmermann, 1949.
Verh. Visind. Isl., 2: 86, fig. 1.

Saemundssonina lari tridactylae Timmermann, 1949
Saemundssonina gonothorax tridactylae Timmermann, 1949.
Verh. Visind. Isl., 3: 7, fig. 1.

Rissa brevirostris (Bruch)--Red-legged Kittiwake

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps eugrammicus bryki Timmermann, 1952
Quadriceps eugrammicus bryki Timmermann, 1952. Ann.
Mag. Nat. Hist., (12), 5: 221.

Xema sabini (Sabine)--Sabine's Gull

Actornithophilus piceus lari (Packard, 1870)
(Type host: Larus marinus Linnaeus)

Austromenopon transversum (Denny, 1842)
(Type host: Rissa tridactyla (Linnaeus))

Quadriceps eugrammicus lineatus (Piaget, 1880)
Nirmus lineatus Piaget, 1880. Les Pediculines: 204.
pl. 16, fig. 7.
Nirmus or Degeeriella jugifer Müller, 1932. Ber. westpreuss.
bot.-zool. Ver., 54: 29 and 32.

Saemundssonina lari fallai Timmermann, 1951
(Type host: Larus novae-hollandiae Stephens)
Saemundssonina lari fallai Timmermann, 1951. Parasit. News,
(2), 1: 7.

Gelochelidon nilotica (Gmelin)--Gull-billed Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))
Menopon atrofulvum Piaget, 1880. Les Pediculines: 483,
pl. 39, fig. 2.
Menopon sternophilum Ferris, 1932. Bull. Bishop. Mus.,
98: 59, fig. 12.
Menopon fuscifasciatum minor Piaget, 1937 (nec 1880).
In Thompson, Ann. Mag. Nat. Hist., (10), 20: 24.

Quadriceps baliola baliola (Blagoveshtchensky, 1951)
Degeeriella caspia baliola Blagoveshtchensky, 1951.
Mag. Parasit., Leningr, 13: 300, fig. 13.
Quadriceps insignis calendae Timmermann, 1952. Zool.
Anz., 148: 83.

Quadriceps kekra Ansari, 1947
Quadriceps kekra Ansari, 1947. Proc. Nat. Inst. Sci.
India, 13: 276, fig. 8.

Saemundssonina sterna (Linnaeus, 1758)
(Type host: Sterna hirundo Linnaeus)

Sterna forsteri Nuttall--Forster's Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Saemundssonina parvigentalis Ward, 1955
Saemundssonina parvigentalis Ward, 1955. Proc. U. S.
Nat. Mus., no. 3353, 105: 87, figs. 1a and 1b.

Sterna hirundo Linnaeus--Common Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps sellatus sellatus (Burmeister, 1838)
Nirmus sellatus Burmeister, 1838. Handb. Ent., 2: 428.
Nirmus sellinger Giebel, 1861. Z. ges. NatWiss., 18: 315
(nn for N. sellatus Burmeister, 1838).
Philopterus stellatus Gervais, 1884. In Walckenaer, Hist.
Nat. Insectes, 3: 346 (misspelling of sellatus Burmeister).

Saemundssonina sterna (Linnaeus, 1758)
Pediculus sterna Linnaeus, 1758. Syst. Nat., ed. 10: 612.
Nirmus fornicatus Olfers, 1816. De Veget....: 89.
Docophorus 5-maculatus Piaget, 1885. Les Pediculines,
Supplement: 9, pl. 1, fig. 10.

Sterna paradisaea Pontoppidan--Arctic Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps sellatus houri Hopkins, 1949
Quadriceps houri Hopkins, 1949. Ann. Mag. Nat. Hist.,
(12), 2: 52, pl. 3, figs. 9-10.

Saemundssonina lockeyi Clay, 1949
(Type host: Sterna vittata georgiae Reichenow)
Saemundssonina lockeyi Clay, 1949. Amer. Mus. Novit.,
no. 1409: 11, figs. 17, 24 and 25.

Sterna dougallii Montagu--Roseate Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps giebeli (Eichler, 1951)
Koeniginirmus nycthemerus giebeli Eichler, 1951.
Bonn. Zool. Beitr., 2: 128 (nn for "Nirmus anagrapsus
var.", Giebel, 1874).

Saemundssonina sterna (Linnaeus, 1758)
(Type host: Sterna hirundo Linnaeus)

Sterna aleutica Baird--Aleutian Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Sterna fuscata Linnaeus--Sooty Tern

Actornithophilus incisus (Piaget, 1880)
(Type host: Anous stolidus (Linnaeus))

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps birostris (Giebel, 1874)
Nirmus birostris Giebel, 1874. Insecta Epizoa: 174.
Nirmus gloriosus Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 467, pl. 29, fig. 1.
Nirmus obtusus Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 468, pl. 29, fig. 2.

Saemundssonina petersi Ward, 1955
Saemundssonina petersi Ward, 1955. Proc. U. S. Nat.
Mus., no. 3353, 105: 90, figs. 1b, d. and f.

Sterna anaethetus Scopoli--Bridled Tern

Actornithophilus incisus (Piaget, 1880)

(Type host: Anous stolidus (Linnaeus))

Actornithophilus piceus piceus (Denny, 1842)

(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)

(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps legatus Timmermann, 1952

Quadriceps legatus Timmermann, 1952. Zool. Anz., 148: 77,
figs. 4-5

Saemundssonia meridiana Timmermann, 1950

Saemundssonia meridiana Timmermann, 1950. Parasit.
News, (1), 1: 1, fig. 1.

Sterna albifrons Pallas--Least Tern

Actornithophilus piceus piceus (Denny, 1842)

(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)

(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps nychthemerus (Burmeister, 1838)

Nirmus nychthemerus Burmeister, 1838. Handb. Ent., 2: 428.

Nirmus urniger Giebel, 1861. Z. ges. Natwiss., 18: 315.

(nn for N. nychthemerus Burmeister, 1838).

Nirmus mesomelas Nitzsch, 1874. In Giebel, Insecta
Epizoa: 174, pl. 5, fig. 8.

Saemundssonia melanocephalus (Burmeister, 1838)

Docophorus melanocephalus Burmeister, 1838.
Handb. Ent., 2: 426.

Thalasseus maximus (Boddaert)--Royal Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps praestans (Kellogg, 1896)
Nirmus praestans Kellogg, 1896. Proc. Calif. Acad. Sci.
6: 99, pl. 5, figs. 1-2.
Nirmus hebes Kellogg, 1896. Proc. Calif. Acad. Sci.
6: 101, pl. 5, fig. 3

Saemundssonia laticaudata (Rudow, 1869)
(Type host: Thalasseus sandvicensis (Latham))

Thalasseus elegans (Gambel)--Elegant Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Austromenopon atrofulvum (Piaget, 1880)
(Type host: Thalasseus bergi (Lichtenstein))

Thalasseus sandvicensis (Latham)-- Sandwich Tern

Actornithophilus piceus piceus (Denny, 1842)

Colpocephalum piceum Denny, 1842. Mon. Anopl. Brit.: 198
and 212, pl. 18, fig. 4.

Colpocephalum maurum Nitzsch, 1866 In Giebel, Z. ges.
NatWiss., 28: 395.

Colpocephalum sulcatum Piaget, 1880. Les Pediculines: 565,
pl. 47, fig. 5.

Colpocephalum crassipes Piaget, 1880. Les Pediculines: 566,
pl. 47, fig. 6.

Actornithophilus funebre candidus Carriker, 1949. Proc.
U. S. Nat. Mus., no. 3254, 100: 17.

Austromenopon atrofulvum (Piaget, 1880)

(Type host: Thalasseus bergi (Lichtenstein))

Quadriceps longicollis (Rudow, 1869)

Nirmus longicollis Rudow, 1869. Beitr. Kenntn. Malloph.: 49.

Saemundssonina brevicornis (Giebel, 1874)

(only on Thalasseus sandvicensis acufavidus (Cabot))

Docophorus brevicornis Giebel, 1874. Insecta Epizoa: 112.

Saemundssonina laticaudata (Rudow, 1869)

Docophorus laticaudatus Rudow, 1869. Beitr. Kenntn.
Malloph.: 12.

Hydroprogne caspia (Pallas)--Caspian Tern

Actornithophilus piceus piceus (Denny, 1842)

(Type Host: Thalasseus sandvicensis (Latham))

Quadriceps griseus (Rudow, 1869)

Nirmus griseus Rudow, 1869. Beitr. Kenntn. Malloph.: 21.

Nirmus caspius Giebel, 1874. Insecta Epizoa: 174.

Chlidonias nigra (Linnaeus)-- Black Tern

Actornithophilus piceus piceus (Denny, 1842)
(Type host: Thalasseus sandvicensis (Latham))

Quadriceps phaeonotus Nitzsch, 1866)
Nirmus phaeonotus Nitzsch, 1866. In Giebel, Z. ges.
NatWiss., 28: 375.

Saemundssonina lobaticeps lobaticeps (Giebel, 1874)
Docophorus lobaticeps Giebel, 1874. Insecta Epizoa: 109.
Docophorus laricola Nitzsch, 1874. In Giebel, Insecta
Epizoa: 110.
Docophorus pustuliferus Picaglia, 1885. Atti. Soc. Ital.
Sci. Nat., 28: 84.

Anous stolidus (Linnaeus)--Noddy Tern

Actornithophilus ceruleus (Timmermann, 1954)
Clypeodon ceruleus Timmermann, 1954. Ann. Mag. Nat.
Hist., (12), 7: 830, figs. 2c and d, and pl. 26, fig. c.

Actornithophilus incisus (Piaget, 1880)
Colpocephalum incisum Piaget, 1880. Les Pediculines:
569, pl. 47, fig. 9.
Colpocephalum milleri Kellogg and Kuwana, 1902. Proc.
Wash. Acad. Sci., 4: 483, pl. 30, fig. 6.
Colpocephalum epiphanes Kellogg and Chapman, 1902.
J. N. Y. Ent. Soc., 10: 161, pl. 14, fig. 2.
Clypeodon pacificus Timmermann, 1955. Ann. Mag. Nat.
Hist., (12), 8: 534.

Quadriceps separatus (Kellogg and Kuwana, 1902)
Nirmus separatus Kellogg and Kuwana, 1902. Proc. Wash.
Acad. Sci., 4: 472, pl. 29, fig. 6.
Nirmus gloriosus emarginatus Kellogg and Chapman, 1902.
N. N. Y. Ent. Soc., 10: 159.

Saemundssonina lobaticeps remota Timmermann, 1951
Saemundssonina lobaticeps remota Timmermann, 1951.
Naturufraedningnum, 3: 142.

CHARADIIFORMES
Alcidae

Mallophaga from the North American species of this family are not well-known. Apparently each host species has Mallophaga from each of the genera Austromenopon, Quadriceps, and Saemundssionia which have been discussed previously.

CHARADRIIFORMES
Alcidae

Alca torda Linnaeus--Razorbill

Austromenopon nigropleurum (Denny, 1842)

Menopon nigro-pleurum Denny, 1842. Mon. Anopl.
Brit.: 200 and 224, pl. 20, fig. 1.

Quadriceps alcae (Denny, 1842)

Nirmus alcae Denny, 1842. Mon. Anopl. Brit.: 52 and
137, pl. 9, fig. 1.

Nirmus citrinus Nitzsch, 1866. In Giebel, Z. ges. NatWiss.,
28: 378.

Saemundssonina celidoxa (Burmeister, 1838)

Docophorus celidoxa Burmeister, 1838. Handb. Ent., 2: 426.

Uria aalge (Pontoppidan)--Common Murre

Austromenopon uriae Timmermann, 1954.

Austromenopon uriae Timmermann, 1954. Bonn.Zool.
Beitr., 5: 196, fig. 2.

Quadriceps obliquus (Mjöberg, 1910)

Nirmus obliquus Mjöberg, 1910. Ark. Zool., 6: 148,
pl. 2, figs. 2 and 5.

Saemundssonina calva (Kellogg, 1896)

Docophorus calvus Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 79, pl. 3, fig. 1.

Plautus alle (Linnaeus)--Dovekie

Austromenopon merguli Timmermann, 1954

Austromenopon merguli Timmermann, 1954
Bonn. Zool. Beitr., 5: 197.

Quadriceps klatti Timmermann, 1954

Quadriceps klatti Timmermann, 1954. Zool. Anz.,
152: 172, fig. 9r and 10.

Saemundssonina merguli (Denny, 1842)

Docophorus merguli Denny, 1842. Mon. Anopl. Brit.: 42 and
72, pl. 3, fig. 7.

Cephus grylle (Linnaeus)--Black Guillemot

Saemundsson grylle (O. Fabricius, 1780)

Pediculus grylle O. Fabricius, 1780. Fauna Groenlandica: 218
Docophorus megacephalus Denny, 1842. Mon. Anopl. Brit.:
44 and 86, pl. 5, fig. 5.

Cephus columba Pallas--Pigeon Guillemot

Quadriceps pacificus (Kellogg and Chapman, 1899)

Nirmus pacificus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 70, pl. 5, fig. 8.

Saemundsson procax (Kellogg and Chapman, 1899)

Docophorus procax Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 54, pl. 5, fig. 1.

Synthliboramphus antiquum (Gmelin)--Ancient Murrelet

Saemundsson montereyi (Kellogg, 1896)

Docophorus montereyi Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 87, pl. 3, fig. 6.

Ptychoramphus aleutica (Pallas)--Cassin's Auklet

Quadriceps maritimus (Kellogg and Chapman, 1899)

Nirmus maritimus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 72, pl. 6, fig. 1.

Saemundsson insolita (Kellogg, 1896)

Docophorus insolitus Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 94, pl. 4, fig. 5.

Aethia cristatella (Pallas)--Crested Auklet

Saemundsson wumisuzume (Uchida, 1948)

Philopterus wumisuzume Uchida, 1948. Jap. Med. J.,
1: 535, fig. 9.

Aethia pusilla (Pallas)--Least Auklet

Quadriceps aethereus (Giebel, 1874)

Nirmus aethereus Giebel, 1874. Insecta Epizoa: 301.

Cerorhinca monocerata (Pallas)--Rhinceros Auklet

Saemundssonina acutipecta (Kellogg, 1896)

Docophorus acutipectus Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 84, pl. 3, fig. 4.

Fratercula arctica (Linnaeus)--Common Puffin

Saemundssonina fraterculae (Overgaard, 1942)

Docophorus fraterculae Overgaard, 1942. Zool. Iceland,
3, pt. 42: 10, fig. 2.

CHARADRIIFORMES
Rynchopidae

The genera Quadriceps and Saemundssonina have been discussed previously. Numerous collections have yielded only the two species of Mallophaga listed.

CHARADRIIFORMES
Rynchopidae

Rynchops nigra Linnaeus--Black Skimmer

Quadriceps elongatus (Piaget, 1885)

(Type host: Rynchops flavirostris Vieillot)

Docophorus elongatus Piaget, 1885. Les Pediculines,
Supplement: 15, pl. 2, fig. 4.

Saemundssonia anisorhamphos Timmermann, 1951

(Type host: Rynchops flavirostris Vieillot)

Saemundssonia anisorhamphos Timmermann, 1951.
Naturufraedningum, 3: 142, fig. 2.

COLUMBIFORMES
Columbidae

The genus Colpocephalum is found on several orders of birds and has been discussed previously.

The genus Bonomiella Conci, 1942 (Riv. Soc. Stud. Venezia Tridentina, 23: 1) is found only on this order of hosts. For a discussion of species in this genus see Emerson, 1957, Florida Ent., 40: 63.

The genus Campanulotes Keler, 1939 (Nova Acta Leop-Carol. (n. f.), 8: 157) is found only on this order of hosts.

The genus Coloceras Taschenberg, 1882 (Nova Acta Leop-Carol, 44: 42) is found only on this order of hosts. Keler, 1939 (Nova Acta Leop.-Carol. (n.f.), 8: 59) reviewed the genus and erected Ancistrodes and Nitzschiella which are considered to be synonyms of Coloceras.

The genus Columbicola Ewing, 1929 (Manual of External Parasites: 190) is found only on this order of hosts. Dr. Tendeiro is presently reviewing this genus.

The genus Hohorstiella Eichler, 1940 (Zbl. Bakt. (I. Orig.), 145:362) is found only on this order of hosts. Dr. Ward (Walter Reed Army Institute for Research, Washington, D. C.) is presently reviewing this genus.

The genus Physconelloides Ewing, 1927 (J. Wash. Acad. Sci., 17:94) is found only on this order of hosts. For a discussion of the genus see Emerson, 1960, J. Kans. Ent. Soc., 33: 122.

COLUMBIFORMES
Columbidae

Columba fasciata Say--Band-tailed Pigeon

Hohorstiella frontalis Carriker, 1949

Hohorstiella frontalis Carriker, 1949. Rev. Brasil Biol., 9: 302, figs. 6 and 7

Physconelloides spenceri Emerson and Ward, 1958

Physconelloides spenceri Emerson and Ward, 1958, J. Kans. Ent. Soc., 31: 239, figs. 1 and 4.

Columba livia "domestica"--Domestic Pigeon

Bonomiella columbae Emerson, 1957

Bonomiella columbae Emerson, 1957. Florida Ent., 40: 60, figs. 1-3.

Campanulotes bidentatus compar (Burmeister, 1838)

Goniocotes compar Burmeister, 1838. Handb. Ent., 2: 431

Goniocotes formosanus Sugimoto, 1929. Rept. Dept. Agri. Res. Inst. Formosa, 43: 25.

Coloceras damicorne fahrenheitzi Eichler, 1950

Coloceras damicornis fahrenheitzi Eichler, 1950. Doriana, 1: 3.

Colpocephalum turbinatum Denny, 1842

Colpocephalum turbinatum Denny, 1842. Mon. Anopl. Brit.: 198 and 209, pl. 21, fig. 1.

Columbicola columbae (Linnaeus, 1758)

Pediculus columbae Linnaeus, 1758. Syst. Nat., ed. 10: 614.

Lipeurus baculus Nitzsch, 1818. Germar's Mag. Ent., 3: 293.

Lipeurus antennatus Giebel, 1874. Insecta Epizoa: 213.

Phagopterus columbae Freire and Duarte, 1944. Bol. Soc. Brasil Med. Vet., 13: 14, figs. 1-3.

Hohorstiella lata (Piaget, 1880)

Menopon latum Piaget, 1880. Les Pediculines: 457, pl. 37, fig. 1.

Physconelloides zenaidurae (McGregor, 1917)

(Type host: Zenaidura macroura (Linnaeus))

Zenaida asiatica (Linnaeus)--White-winged Dove

Physconelloides wisemani Emerson, 1960

Physconelloides wisemani Emerson, 1960. J. Kans. Ent. Soc., 33: 122, figs. 4, 9 and 14.

Zenaidura macroura (Linnaeus)--Mourning Dove

Bonomiella columbae Emerson, 1957

(Type host: Columba livia "domestica")

Columbicola baculoides (Paine, 1912)

Lipeurus baculoides Paine, 1912. Rept. Laguna Marine Lab., 1: 174, fig. 95.

Lipeurus texanus McGregor, 1917. Psyche, 24: 109, pl. 6, figs. 1-4.

Esthiopterum macrourae Wilson, 1941. J. Parasit., 27: 262, figs. 5-7.

Physconelloides zenaidurae (McGregor, 1917)

Goniodes zenaidurae McGregor, 1917. Ent. News, 28: 433, pl. 28, figs. 1 and 4

Streptopelia chinensis (Scopoli)--Spotted Dove

Coloceras chinense (Kellogg and Chapman, 1902)

Goniodes minus Piaget, 1880. Les Pediculines: 256, pl. 21, fig. 3 (nec p. 241).

Goniocotes chinense Kellogg and Chapman, 1902. J. N. Y. Ent. Soc., 10: 160, pl. 13, fig. 5

Goniodes piageti Johnston and Harrison, 1912. Proc. Roy. Soc. Qd., 24: 19 (nn for G. minor Piaget, 1880, p. 256).

Coloceras lativentre (Uchida, 1916)

Goniodes lativentre Uchida, 1916. Annot. Zool. Jap., 9: 81, figs. 1-2.

Colpocephalum longicaudum Nitzsch, 1866

Colpocephalum longicaudum Nitzsch, 1866. In Giebel, Z. ges. NatWiss., 28: 392.

Columbicola fulmeki Eichler, 1942

Columbicola baculus fulmeki Eichler, 1943. S. B. ges Naturf. Fr. Berl., 1941: 274, 287, fig. 2.

Columbigallina passerina (Linnaeus)--Ground Dove

Columbicola passerinae (Wilson, 1941)

Esthiopterum passerinae Wilson, 1941. J. Parasit.,
27: 259, figs. 1-4.

Physconelloides passerinae Emerson, 1957

Physconelloides passerinae Emerson, 1957. J. Kans. Ent.
Soc., 30: 37, fig. 4.

Leptotila verreauxi Bonaparte--White-fronted Dove

Columbicola gracilicapitis Carriker, 1955

Columbicola gracilicapitis Carriker, 1955. Bol. Ent.
Venezol., 11: 20, figs. 9-10.

Physconelloides ceratoceps Ewing, 1927

Physconelloides ceratoceps Ewing, 1927. J. Wash. Acad.
Sci., 17: 94.

CAPRIMULGIFORMES
Caprimulgidae

The genus Mulcticola Clay and Meinertzhagen, 1938

(Entomologist, 71: 5) is found only on hosts of the family Caprimulgidae, and is rarely collected. For a discussion and illustrations of several species of the genus see Emerson and Elbel, 1957, Canad. Ent., 89: 420.

CAPRIMULGIFORMES
Caprimulgidae

Chordeiles minor (Forster)--Common Nighthawk

Mulcticola macrocephalus (Kellogg, 1896)

Lipeurus macrocephalus Kellogg, 1896. Proc. Calif.
Acad. Sci., 6: 504, pl. 68, fig. 3.

Nirmus tyrannus Osborn, 1896. Bull. U. S. Bur.
Ent. (n.s.), 5: 228.

CUCULIFORMES
Cuculidae

The genus Cuculicola Clay and Meinertzhagen, 1939 (Entomologist, 72: 165) is found only on hosts of Cuculiformes.

The genus Cuculiphilus was discussed previously.

The genus Cuculoecus Ewing, 1926 (Proc. Ent. Soc. Wash., 28: 148) is found only on hosts of Cuculiformes.

The genus Osborniella Thompson, 1948 (Ann. Mag. Nat. Hist., (12), 1: 53) is found in North America only on hosts of the genus Crotophaga. Dr. Wiseman (Texas State Department of Health, Austin) is describing the form found on the Grove-billed Ani.

The genus Vernoniella Guimaraes, 1942 (Pap. avulsos Dep. Zool. S. Paulo, 2: 133 and 1936, Rev. Mus. Paul., 20: 221), is found in North America only on hosts of the genus Crotophaga.

CUCULIFORMES
Cuculidae

Coccyzus americanus (Linnaeus)--Yellow-billed Cuckoo

Cuculiphilus decoratum (Kellogg, 1896)

Menopon decoratum Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 526, pl. 72, fig. 2.

Cuculoecus coccygi (Osborn, 1896)

Docophorus coccygi Osborn, 1896. Bull. U. S. Bur. Ent
(n. s.), 5: 222, fig. 143

Docophorus latifrons occidentalis Kellogg, 1899 (nec 1896).
Occ. Pap. Calif. Acad. Sci., 6: 6, pl. 1, figs. 5 and 8

Geococcyx californianus (Lesson)--Roadrunner

Cuculicola splendidus (Kellogg, 1899)

Nirmus splendidus Kellogg, 1899. Occ. Pap. Calif. Acad.
Sci., 6: 16, pl. 2, figs. 3 and 6.

Crotophaga ani Linnaeus--Smooth-billed Ani

Osborniella crotophagae (Stafford, 1943)

Colpocephalum crotophagae Stafford, 1943. Bol. Ent.
Venezol., 2: 47, figs. 29-36.

Vernoniella guimaraesi Thompson, 1948

Vernoniella guimaraesi Thompson, 1948. Ann. Mag. Nat.
Hist., (12), 1: 49, figs. 1-6.

Crotophaga sulcirostris Swainson--Grove-billed Ani

Vernoniella macgregori (Kellogg, 1899)

Lipeurus macgregori Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 33, pl. 3, figs. 5-6.

Lipeurus crotophagae McGregor, 1917. Psyche, 24: 106
pl. 5, fig. 4.

STRIGIFORMES
Tytonidae

The genus Kurodaia was discussed previously. For a key to the species found on North American Owls, see Emerson, 1960, Ento. News, 71: 170.

The genus Strigiphilus Mjöberg, 1910 (Ark. Zool., 6: 132) is found only on hosts of the order Strigiformes.

Many collections have yielded only the two species of parasites listed for the Barn Owl.

STRIGIFORMES

Tytonidae

Tyto alba (Scopoli)--Barn Owl

Kurodaia subpachygaster (Piaget, 1880)

Colpocephalum subpachygaster Piaget, 1880. Les
Pediculines: 517, pl. 43, fig. 2

Strigiphilus rostratus (Burmeister, 1838)

Docophorus rostratus Burmeister, 1838. Handb. Ent., 2: 427.

Nirmus flammineae Denny, 1852. List Brit. Animals in

Mus., pt. II, Anoplura: 10 (nn for D. rostratus Burmeister, 1838)

Docophorus sulcatus Piaget, 1888. Tijdschr. Ent., 31: 149,
pl. 3, fig. 2.

STRIGIFORMES
Strigidae

The genera Colpocephalum, Kurodaia and Strigiphilus were discussed previously. The hosts of this family apparently have at least one species of each genus, and in some cases two species. Dr. Price is revising the genus Colpocephalum found on the owls.

STRIGIFORMES
Strigidae

Otus asio (Linnaeus)--Screech Owl

Kurodaia painei (McGregor, 1912)

Colpocephalum painei McGregor, 1912. Ent. News, 23: 305,
fig. 1.

Strigiphilus otus Emerson, 1955

Strigiphilus otus Emerson, 1955. Proc. Ent. Soc. Wash.,
57: 241, figs. 1-2.

Bubo virginianus (Gmelin)--Great Horned Owl

Colpocephalum brachysomum Kellogg and Chapman, 1902
(Type host: Asio flammeus (Pontoppidan))

Kurodaia edwardsi Emerson, 1961

Kurodaia edwardsi Emerson, 1961. Proc. Biol. Soc. Wash.,
74: 190, figs. 3-4.

Strigiphilus acutifrons Emerson, 1961

Strigiphilus acutifrons Emerson, 1961. Proc. Biol. Soc.
Wash., 74: 189, figs. 2 and 10.

Strigiphilus oculatus (Rudow, 1870)

Nirmus oculatus Rudow, 1870. Z. ges. Natwiss., 35: 465.
Docophorus bubonis Osborn, 1896 Bull. U. S. Bur. Ent.
(n.s.), 5: 219.

Nyctea scandiaca (Linnaeus)--Snowy Owl

Colpocephalum menoponoides Ewing, 1930

Colpocephalum menoponoides Ewing, 1930. Proc. Ent. Soc.
Wash., 32: 117.

Strigiphilus ceblebrachys (Denny, 1842)

Pediculus strigis O. Fabricius, 1780 (nec Pontoppidan, 1763)
Fauna Groenlandica: 216.

Docophorus ceblebrachys Denny, 1842. Mon. Anopl. Brit.: 45
and 92, pl. 1, fig. 3.

Surnia ulula (Linnaeus)--Hawk-Owl

Strigiphilus crenulatus (Giebel, 1874)

Docophorus crenulatus Giebel, 1874. Insecta Epizoa: 78

Speotyto cunicularia (Molina)--Burrowing Owl

Colpocephalum pectinatum Osborn, 1902

Colpocephalum pectinatum Osborn, 1902. Ohio Nat.,
2: 201, pl. 14, fig. 2.

Strigiphilus speotyti (Osborn, 1896)

Docophorus speotyti Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 222, fig. 144.

"Strigiphilus speotyti (Eichler, 1954)"

Eustrigiphilus speotyti Eichler, 1954 (nec Osborn, 1896)
Fauna Peru, 4: 38, fig. 15.

Strix varia Barton-- Barred Owl

Kurodaia magna Emerson, 1960

Kurodaia magna Emerson, 1960. Ent. News, 71: 169, figs. 1-3.

Strigiphilus varius Carriker, 1958

Strigiphilus varius Carriker, 1958. Proc. Ent. Soc. Wash.,
60: 169, figs. 3-4.

Strix nebulosa Forster--Great Gray Owl

Strigiphilus remotus (Kellogg and Chapman, 1899)

Oncophorus remotus Kellogg and Chapman, 1899. Occ Pap.
Calif. Acad. Sci., 6: 107, pl. 7, fig. 7.

Strigiphilus syrnii (Packard, 1873)

Docophorus syrnii Packard, 1873. Rep. U. S. Geol.
Survey, 1872: 733, fig. 62.

Asio otus Linnaeus--Long-eared Owl

Strigiphilus barbatus (Osborn, 1902)

Docophorus barbatus Osborn, 1902. Ohio Nat., 2: 201,
pl. 14, fig. 1.

Neodocophorus asionis Eichler, 1949. Beitr. Tax, Zool.,
1: 12, pl. 1, figs. 1-12.

Asio flammeus (Pontoppidan)--Short-eared Owl

Colpocephalum brachysomum Kellogg and Chapman, 1902

Colpocephalum brachysomum Kellogg and Chapman, 1902.

J. N. Y. Ent. Soc., 10: 162, pl. 14, fig. 3.

Colpocephalum discrepans Kellogg and Chapman, 1902.

J. N. Y. Ent. Soc., 10: 164, pl. 15, fig. 1.

Kurodaia keleri Emerson, 1961. Proc. Biol. Soc. Wash.,
74: 191, figs. 7-9.

Strigiphilus cursor (Burmeister, 1838)

Docophorus cursor Burmeister, 1838. Handb. Ent., 2: 426

Nirmus brachyoti Denny, 1852. List Brit. Animals in Brit.

Mus., pt. II, Anoplura: 13 (nn for D. cursor Burmeister, 1838).

Nirmus stridulae Denny, 1852. List Brit. Animals in Brit.

Mus., pt. II, Anoplura: 13 (nn for D. cursor Burmeister, 1838).

Strigiphilus nudipes (Piaget, 1880)

Docophorus nudipes Piaget, 1880. Les Pediculines: 26,
pl. 1, fig. 6.

Aegolius funereus (Linnaeus) -Boreal Owl

Strigiphilus pallidus (Giebel, 1874)

Docophorus pallidus Giebel, 1874. Insecta Epizoa: 78.

Docophorus clypeatus Mjöberg, 1910. Ark. Zool., 6:113., fig. 64.

APODIFORMES

Apodidae

The genera Dennyus Neumann, 1906 (Bull. Soc. Zool. Fr., 20: 60) and Eureum Nitzsch, 1818 (Germar's Mag. Ent., 3: 301) are found only on hosts of the family Apodidae. For a discussion of the species, in both genera, found in North America see Emerson and Pratt, 1956, J. Kansas Ent. Soc., 29: 21.

APODIFORMES

Apodidae

Cypseloides niger (Gmelin)--Black Swift

Dennyus spiniger Ewing, 1930

Dennyus spiniger Ewing, 1930. Proc. U. S. Nat. Mus.,
no. 2843, 77: 9. figs. 4 and 7d.

Eureum spenceri Emerson and Pratt, 1956

Eureum spenceri Emerson and Pratt, 1956. J. Kansas Ent.
Soc., 29: 25, figs. 10 and 10a.

Chaetura pelagica (Linnaeus)--Chimney Swift

Dennyus dubius (Kellogg, 1896)

Nitzschia dubius Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 540, pl. 73, fig. 6.

Eureum ewingi Eichler, 1942

"Eureum cimicoides Nitzsch" Ewing, 1930 (nec Burmeister, 1838).
Proc. U. S. Nat. Mus., no. 2843, 77: 10, figs. 5 and 7e.

Eureum ewingi Eichler, 1942. Zool. Anz., 138: 179 (nn for
"Eureum cimicoides Nitzsch" Ewing, 1930).

Chaetura vauxi (Townsend)-- Vaux's Swift

Dennyus vauxi Emerson and Pratt, 1956

Dennyus vauxi Emerson and Pratt, 1956. J. Kansas Ent. Soc.,
29: 23, figs. 3-5.

Aëroautes saxatalis (Woodhouse)--White-throated Swift

Dennyus bruneri (Carriker, 1903)

Nitzschia pulicaris tibialis Carriker, 1902 (nec Piaget, 1880).
J. N. Y. Ent. Soc., 10: 225, pl. 22, figs. 4-5.

Nitzschia bruneri Carriker, 1903. Univ. Stud. Nebr., 3: 177
(nn for N. tibialis Carriker, 1902).

APODIFORMES
Trochilidae

The genera Trochiloecetes Paine and Mann, 1913 (Psyche, 20: 21) and Trochiliphagus Carriker, 1960 (Proc. U. S. Nat. Mus., no. 3438, 112: 331) are found only on the Hummingbirds. Very few collections have been made from North American Hummingbirds. Carriker, 1960, Proc. U. S. Nat. Mus., no. 3438, 122: 307, has reviewed the species of Mallophaga found on the Hummingbirds.

APODIFORMES
Trochilidae

Archilochus colubris (Linnaeus)--Ruby-throated Hummingbird

Trochiliphagus lineatus (Osborn, 1896)

Physostomum lineatum Osborn, 1896. Bull. U. S. Bur.
Ent. (n.s.), 5: 248.

Calypte costae (Bourcier)--Costa's Hummingbird

Trochiloecetes prominens (Kellogg and Chapman, 1899)

Physostomum prominens Kellogg and Chapman, 1899.
Occ. Pap. Calif. Acad. Sci., 6: 137, pl. 9, fig. 5.

Selasphorus rufus (Gmelin)--Rufous Hummingbird

Trochiliphagus ochoterenai (Zavaleta, 1943)

Trochiloecetes ochoterenai Zavaleta, 1943. Tesis Univ.
Mexico Fac. Cien. Dep. Biol.: 54, pl. 5, fig. 6.

CORACIIFORMES
Alcedinidae

The Mallophaga on North American Kingfishers are not well-known. All collections examined have yielded only the species listed. Two genera are represented on Old-World Kingfishers.

The genus Alcedoecus Clay and Meinertzhagen, 1939 (Entomologist, 72: 62) which includes the short, broad Ischnoceran forms has not been collected in North America.

The genus Alcedoffula Clay and Meinertzhagen, 1939 (Entomologist, 72: 161) includes the slender Ischnoceran forms. The two species recorded from North America are aberrant forms, closely resembling species of Quadriceps. In fact, there is some justification for including the North American forms in the genus Quadriceps.

CORACIIFORMES
Alcedinidae

Mergaceryle alcyon (Linnaeus)--Belted Kingfisher

Alcedoffula alcyonae Carriker, 1959

Alcedoffula alcyonae Carriker, 1959. Novedades
Colombianas, 1 (4): 207, figs. 6-7.

Chloroceryle americana (Gmelin)--Green Kingfisher

Alcedoffula columbiana Carriker, 1959

Alcedoffula columbiana Carriker, 1959. Novedades
Colombianas, 1 (4): 205, figs. 1-2.

TROGONIFORMES

Trogonidae

The genus Trogoninirmus Eichler, 1944 (Stettin. Ent. Ztg. 105: 82) is found only on hosts of this order of birds.

The genus Philopterus Nitzsch, 1818 (Germar's Mag. Ent., 3: 281 and 288) is found on birds of the orders Trogoniformes and Passeriformes.

TROGONIFORMES
Trogonidae

Trogon elegans Gould--Coppery tailed Trogon

Trogoninirmus elegans Emerson, 1952

Trogoninirmus elegans Emerson, 1952. J. Kansas Ent.
Soc., 25: 118.

PICIFORMES
Picidae

The genus Brüelia Keler, 1936[©] (Arb. morp.-tax. Ent. Berlin-Dahlem, 3: 257) is found on hosts of the orders Piciformes and Passeriformes. Collections of Brüelia sp. from North American Woodpeckers are fairly common, but todate none have been described.

The genus Menacanthus is found on hosts of several orders of birds, and has been discussed previously.

The genus Penenirmus Clay and Meinertzhagen, 1938 (Entomologist, 71: 73) is found on hosts of the orders Piciformes and Passeriformes. For a discussion of the species found on Woodpeckers, see Emerson and Johnson, 1961, J. Kansas Ent. Soc., 34: 34.

The genus Picicola Clay and Meinertzhagen, 1938 (Entomologist 71: 2) is found on hosts of the orders Piciformes and Passeriformes.

Species of each genus listed above are usually found on each species of host. In some cases, the parasites are not host specific.

PICIFORMES
Picidae*

Colaptes auratus (Linnaeus)--Yellow-shafted Flicker

Menacanthus colaptis (Durrant, 1908)

Menopon colaptis Durrant, 1908. Ohio Nat., 8: 355, fig. 1h.

Penenirmus jungens (Kellogg, 1896)

Decophorus jungens Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 481, pl. 66, fig. 4.

Picicola mississippiensis (McGregor, 1917)

Lipeurus mississippiensis McGregor, 1917. Psyche, 24: 107, pl. 1, figs. 1 and 5.

Colaptes cafer (Gmelin)--Red-shafted Flicker

Penenirmus jungens (Kellogg, 1896)

(Type host: Colaptes auratus (Linnaeus))

Dryocopus pileatus (Linnaeus)--Pileated Woodpecker

Penenirmus serrilimbus pileatus Emerson and Johnson, 1961

Penenirmus serrilimbus pileatus Emerson and Johnson, 1961. J. Kansas Ent. Soc., 34: 40, figs. 11, 18, and 30.

Picicola marginatulus (Harrison, 1916)

Nirmus marginatus Osborn, 1896 (nec Burmeister, 1838). Bull. U. S. Bur. Ent. (n.s.), 5: 228, pl. 2, fig. b.
Degeeriella marginatula Harrison, 1916. Parasitology, 9: 117 (nn for N. marginatus Osborn, 1896).

*Host of Picicola snodgrassi (Kellogg, 1896) is unknown.

Centurus carolinus (Linnaeus)--Red-bellied Woodpecker

Penenirmus serrilimbus aurifrons Carriker, 1956
(Type host: Centurus aurifrons (Wagler))

Picicola americana Carriker, 1956
Picicola praeposterus americana Carriker, 1956.
Florida Ent., 39: 71, figs. 45-46.

Centurus aurifrons (Wagler)--Golden-fronted Woodpecker

Penenirmus serrilimbus aurifrons Carriker, 1956
Penenirmus auritus aurifrons Carriker, 1956. Florida
Ent., 39: 37, figs. 34-35.

Centurus uropygialis Baird--Gila Woodpecker

Menacanthus praecursor (Kellogg, 1899)
Menopon praecursor Kellogg, 1899. Occ. Pap. Calif. Acad.
Sci., 6: 46, pl. 4, fig. 8.

Melanerpes erythrocephalus (Linnaeus)--Red-headed Woodpecker

Penenirmus californiensis californiensis (Kellogg, 1896)
(Type host: Melanerpes formicivorus (Swainson))

Melanerpes formicivorus (Swainson)--Acorn Woodpecker

Penenirmus californiensis californiensis (Kellogg, 1896)
Docophorus californiensis Kellogg, 1896. Proc. Calif.
Acad. Sci., 6: 483, pl. 66, fig. 6.

Asyndesmus lewis (Gray)--Lewis's Woodpecker

Penenirmus serrilimbus asyndesmus Emerson and Johnson, 1961
Penenirmus serrilimbus asyndesmus Emerson and Johnson, 1961.
J. Kansas Ent. Soc., 34: 40, figs. 12, 21, and 31.

Sphyrapicus varius (Linnaeus)--Yellow-bellied Sapsucker

Penenirmus californiensis varius Emerson, 1953
Penenirmus varius Emerson, 1953. J. Kansas Ent. Soc.,
26: 134, pl. 2, figs. 6 and 8.

Dendrocopos villosus (Linnaeus)--Hairy Woodpecker

Penenirmus villosus Emerson and Johnson, 1961

Penenirmus villosus Emerson and Johnson, 1961. J. Kansas
Ent. Soc., 34: 41, figs. 13, 15, and 32.

Dendrocopos pubescens (Linnaeus)--Downy Woodpecker

Penenirmus auritus evagens (Kellogg, 1896)

Docophorus evagens Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 480, pl. 66, fig. 2.

Dendrocopos arizonae (Hargitt)--Arizona Woodpecker

Penenirmus auritus evagens (Kellogg, 1896)

(Type host: Dendrocopos pubescens (Linnaeus))

Picoides arcticus (Swainson)--Black-headed Three-toed Woodpecker

Menacanthus picicola (Packard, 1873) *

Menopon picicola Packard, 1873. Rept. U. S. Geol. Surv.,
1872: 731, fig. 58.

Penenirmus californiensis arcticus Carriker, 1958.

Penenirmus arcticus Carriker, 1958. Proc. Ent. Soc.
Wash., 60: 168, figs. 1-2.

Picoides tridactylus (Linnaeus)--Northern Three-toed Woodpecker

Menacanthus picicola (Packard, 1873) *

Menopon picicola Packard, 1873. Rept. U. S. Geol. Surv.,
1872: 731, fig. 58.

Penenirmus californiensis arcticus Carriker, 1958

(Type host: Picoides arcticus (Swainson))

* The type host has not been designated.

PASSERIFORMES
Tyrannidae

Very little taxonomic work has been undertaken on the Mallophaga found on this family of hosts.

The genera Brulelia, Menacanthus, Philopterus, and Picicola discussed previously are found on this family of hosts.

The genus Myrsidea Waterson, 1915 (Ent. Mon. Mag., 51: 12) is found in North America only on hosts of the order Passeriformes.

The genus Ricinus DeGeer, 1778 (Mem. Hist. Ins., 7: 69) is found in North America only on hosts of the order Passeriformes.

PASSERIFORMES
Tyrannidae

Tyrannus tyrannus (Linnaeus)--Eastern Kingbird

Ricinus angulatus (Kellogg, 1896)

Physostomum angulatum Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 515, pl. 70, fig. 5.

Tyrannus melancholicus Vieillot--Tropical Kingbird

Brulelia parabologybe (Carraker, 1903)

Nirmus parabologybe Carraker, 1903. Univ. Stud. Nebr., 3: 137, pl. 2, fig. 3.

Tyrannus vociferans Swainson--Cassin's Kingbird

Ricinus arcuatus (Kellogg and Mann, 1912)

Physostomum fasciatus arcuatus Kellogg and Mann, 1912. Ent. News, 23: 65.

Pitangus sulphuratus (Linnaeus)--Kiskadee Flycatcher

Myrsidea magnidens Stafford, 1943

Myrsidea magnidens Stafford, 1943. Bol. Ent. Venezol., 2: 41, figs. 10-17.

Myiarchus cinerascens (Lawrence)--Ash-throated Flycatcher

Menacanthus distinctum (Kellogg and Chapman, 1899)

Menopon distinctum Kellogg and Chapman, 1899. Occ. Pap. Calif. Acad. Sci., 6: 126, pl. 8, fig. 7.

Philoptyerus rufus (Kellogg, 1899)

Docophorus rufus Kellogg, 1899. Occ. Pap. Calif. Acad. Sci., 6: 7, pl. 1, figs. 6 and 9.

Empidonax difficilis Baird--Western Flycatcher

Brulelia ductilis (Kellogg and Chapman, 1899)

Nirmus ductilis Kellogg and Chapman, 1899. Occ. Pap. Calif. Acad. Sci., 6: 89, pl. 6, fig. 8.

Ricinus sucinaceus (Kellogg, 1896)

Physostomum sucinaceum Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 514, pl. 70, fig. 2.

Contopus virens Linnaeus--Eastern Wood Pewee

Philoptyerus fuscoventralis (Osborn, 1896)

Docophorus fusco-ventralis Osborn, 1896. Bull. U. S. Bur. Ent. (n. s.), 5: 221.

PASSERIFORMES
Hirundinidae

The genera Brüelia, Myrsidea, and Philopterus discussed previously are found on this family of hosts.

The genus Machaerilaemus Harrison, 1915 (Parasitology, 7: 389) is found on hosts of several families of Passeriformes. For a discussion of the genus, see Emerson, 1947, Canad. Ent., 79: 209.

PASSERIFORMES
Hirundinidae

Riparia riparia (Linnaeus)--Bank Swallow

Brüelia tenuis (Burmeister, 1838)

Nirmus tenuis Burmeister, 1838. Handb. Ent., 2: 429.

Myrsidea latifrons (Carriker, 1910)

Nitzschia latifrons Carriker, 1910. In Carriker and Shull,
Ent. News, 21: 56, pl. 5, fig. 4.

Nitzschia piageti Kistiakowsky, 1926 (nec Harrison, 1916).
Zool. Anz., 68: 11, fig. 2.

Hirundo rustica Linnaeus--Barn Swallow

Brüelia domestica (Kellogg and Chapman, 1899)

Nirmus longus domesticus Kellogg and Chapman, 1899. Occ.
Pap. Calif. Acad. Sci., 6: 93.

Machaerilaemus malleus (Burmeister, 1838)

Eureum malleus Burmeister, 1838. Handb. Ent., 2: 441.

Myrsidea rustica (Giebel, 1874)

Menopon rusticum Giebel, 1874. Insecta Epizoa: 288.

Nitzschia femoralis Kistiakowsky, 1926. Zool. Anz.,
68: 10, fig. 1.

Philopterus excisus microsomaticus Tandan, 1955

Docophorus hirundinis Piaget, 1871 (nec Schrank, 1803).
Tijdschr. Ent., 14: 134, pl. 7, fig. 13.

Philopterus excisus microsomaticus Tandan, 1955. Ann.
Mag. Nat. Hist., (12), 8: 421, figs. 8-12 (nn for D.
hirundinis Piaget, 1871).

Petrochelidon pyrrhonota (Vieillot)--Cliff Swallow

Brüelia longa (Kellogg, 1896)

Nirmus longus Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 490, pl. 67, fig. 1.

Machaerilaemus malleus (Burmeister, 1838)

(Type host: Hirundo rustica Linnaeus)

Philopterus excisus major (Kellogg, 1896)

Docophorus excisus major Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 490.

Progne subis (Linnaeus)--Purple Martin

Machaerilaemus americanus (Ewing, 1930)

Hirundoecus americanus Ewing, 1930. Proc. U. S. Nat. Mus.,
77, art. 20: 13, figs. 6 and 7f.

Myrsidea dissimilis (Kellogg, 1896)

Menopon dissimilis Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 536, pl. 73, fig. 5.

Philopterus excisus domesticus (Kellogg, 1896)

Docophorus domesticus Kellogg, 1896. Proc. Calif. Acad.
Sci. 6: 475, pl. 65, fig. 4.

PASSERIFORMES
Alaudidae

The genera Menacanthus and Ricinus were discussed previously.
The genera Brüelia, Myrsidea, and Philopterus have also been
collected from hosts of this family.

PASSERIFORMES
Alaudidae

Eremophila alpestris (Linnaeus)--Horned Lark

Menacanthus perforatus (Piaget, 1880)

Menopon perforatum Piaget, 1880. Les Pediculines: 453,
pl. 42, fig. 9.

Ricinus serratus (Durrant, 1906)

Physostomum serratum Durrant, 1906. Ohio Nat., 6: 528,
fig. 1b.

Physostomum clypeatum Mjöberg, 1910. Ark. Zool.,
6: 60, figs. 35-36, and pl. 2, fig. 1.

PASSERIFORMES
Corvidae

The genera Brüelia, Menacanthus, Myrsidea, and Philopterus were discussed previously.

For a discussion of the species of Brüelia found on hosts of this family, see Ansari, 1956, Bull. Brit. Mus. (N. H.) Ent., 4: 371 and 1957, Ibid, 5: 143.

A few undescribed specimens of Penenirmus, a genus discussed previously, have been collected from the smaller hosts of this family.

Specimens of the genus Colpocephum, discussed previously, are found on the Crows and Ravens. Since no taxonomic work on this group has been attempted, it is not known whether they are new or represent species found on Old World Corvidae.

PASSIFORMES
Corvidae

Cyanocitta cristata (Linnaeus)--Blue Jay

Brüelia clayae Ansari, 1956

Brüelia clayae Ansari, 1956. Bull. Brit. Mus. (NH) Ent.
4: 375, figs. 7-13.

Philopterus cristata Malcomson, 1929

Philopterus cristata Malcomson, 1929. Ann. Ent. Soc.
Amer., 22: 729, fig. 2.

Cyanocitta stelleri (Gmelin)--Stellar's Jay

Brüelia deficiens (Piaget, 1885)

(Type host: Cyanopica cyanus cooki Bonaparte)

Nirmus deficiens Piaget, 1885. Les Pediculines,
Supplement: 23, pl. 3, fig. 3.

Nirmus ampullatus Piaget, 1885. Les Pediculines,
Supplement: 25, pl. 3, fig. 4.

Aphelocoma coerulescens (Bosc)--Scrub Jay

Brüelia deficiens (Piaget, 1885)

(Type host: Cyanopica cyanus cooki Bonaparte)

Menacanthus persignatus (Kellogg and Chapman, 1899)

Menopon persignatum Kellogg and Chapman, 1899. Occ.
Pap. Calif. Acad. Sci., 6: 128, pl. 9, fig. 1.

Cyanocorax yucas (Boddaert)--Green Jay

Brüelia hopkinsi Ansari, 1956

Brüelia hopkinsi Ansari, 1956. Bull. Brit. Mus (NH) Ent.,
4: 379, figs. 21-27.

Pica pica (Linnaeus)--Black-billed Magpie

Brüelia biocellata (Piaget, 1880)

Nirmus biocellatus Piaget, 1880. Les Pediculines: 666, pl. 55, fig. 2.

Nirmus biocellatus migropictus Carriker, 1902. J. N. Y. Ent. Soc., 10: 219, pl. 21, fig. 1.

Menacanthus eury sternum (Burmeister, 1838)

Menopon eury sternum Burmeister, 1838. Handb. Ent., 2: 439.

Menopon picae Piaget, 1880. Les Pediculines: 433, pl. 34, fig. 2.

Myrsidea picae (Linnaeus, 1758)

Pediculus picae Linnaeus, 1758. Syst. Natr., ed. 10: 612.

Colpocephalum eury sternum Denny, 1842. Mon. Anopl.

Brit.: 199 and 213, pl. 18, fig. 6.

Philopterus picae (Denny, 1842)

Docophorus picae Denny, 1842. Mon. Anopl. Brit.: 41 and 67, pl. 1, fig. 9.

Docophorus subcrassipes Nitzsch, 1866. In Giebel, Z. ges. NatWiss., 27: 116.

Docophorus singularis Kellogg and Chapman, 1899. Occ. Pap. Calif. Acad. Sci., 6: 61, pl. 5, fig. 5.

Pica nuttalli (Audubon)--Yellow-billed Magpie

The Mallophaga from this host apparently cannot be separated from those found on Pica pica (Linnaeus).

Corvus corax Linnaeus--Common Raven

Brüelia argula (Burmeister, 1838)

Nirmus argulus Burmeister, 1838. Handb. Ent., 2: 430.

Menacanthus gonophaeus (Burmeister, 1838)

Menopon gonophaeus Burmeister, 1838. Handb. Ent., 2: 440.

Myrsidea anaspila (Nitzsch, 1866)

Menopon anaspilum Nitzsch, 1866. In Giebel, Z. ges. Natwiss., 27: 119.

Philopterus corvi (Linnaeus, 1758)

Pediculus corvi Linnaeus, 1758. Syst. Natr., ed. 10: 612.

Nirmus adustus Olfers, 1816. De Veget.....: 88.

Docophorus semisignatus Denny, 1842. Mon. Anopl. Brit.: 41 and 66, pl. 1, fig. 5.

Nirmus coracis Denny, 1852. List Brit. Animals in Brit.

Mus., pt. II, Anoplura: 7 (nn for D. semisignatus Denny, 1842).

Docophorus distinctus Kellogg, 1896. Proc. Calif. Acad. Sci., 6: 477, pl. 65, fig. 5.

Corvus cryptoleucus Couch--White-necked Raven

Brüelia afzali Ansari, 1957

Brüelia afzali Ansari, 1957. Bull. Brit. Mus. (NH) Ent., 5: 154, figs. 14, 36-37, and 83-87.

Brüelia cryptoleucus Ansari, 1957

Brüelia cryptoleucus Ansari, 1957. Bull. Brit. Mus. (NH) Ent., 5: 164, figs. 19, 45-47, and 105-108.

Corvus brachyrhynchos Brehm--Common Crow

Brüelia rotundata (Osborn, 1896)

Nirmus rotundatus Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 226.

Myrsidea interrupta (Osborn, 1896)

Menopon interruptus Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 245, pl. 2, fig. h.

Menopon mesoleucum americanus Kellogg, 1896. Proc.
Calif. Acad. Sci., 6: 539, pl. 73, fig. 3.

Philopterus ocellatus osborni Edwards, 1952

Lipeurus corvi Packard, 1870 (nec Linnaeus, 1758).

Amer. Nat., 4: 95, pl. 1, fig. 2.

Docophorus corvi Osborn, 1896 (nec Linnaeus, 1758).

Bull. U. S. Bur. Ent. (n.s.), 5: 220, fig. 142.

Philopterus osborni Edwards, 1952. Psyche, 59: 27 (nn for
D. corvi Osborn, 1896).

Gymnorhinus cyanocephalus (Wied)--Pinon Jay

Philopterus phillipi Emerson, 1953

Philopterus phillipi Emerson, 1953. J. Kansas Ent. Soc.,
26: 132, pl. 1, figs. 1 and 3.

PASSERIFORMES

These notes apply to the remaining families of the order Passeriformes.

Mallophaga from the remainder of the order Passeriformes have not been studied in great detail. Most of species of Mallophaga are not restricted to a single host species. This is especially true for the genera Machaerilaemus, Menacanthus, Myrsidea, Penenirmus, Picicola, Philopterus and Ricinus, all of which have been discussed previously. Species of the genus Brüelia appear to be more host specific than those of the genera mentioned above. Many of the species listed here as valid will probably become synonyms when the genera are revised.

The genus Sturnidoecus Eichler, 1944 (Stettin. Ent. Ztg., 105: 81) is found on a few hosts of the order Passeriformes.

The genus Bizarrifrons Eichler, 1939 (Zool. Anz., 124: 226) found on certain neotropical hosts, has been recorded only once from North America, and this record may be in error.

PASSERIFORMES
Paridae

Parus atricapillus (Linnaeus)--Black-capped Chickadee

Brüelia longifrons Carriker, 1956

Brüelia longifrons Carriker, 1956. Florida Ent., 39: 11,
fig. 61.

Philopterus rutteri (Kellogg, 1899)

Docophorus rutteri Kellogg, 1899. Occ. Pap. Calif. Acad.
Sci., 6: 12, pl. 1, fig. 3.

Ricinus medius Uchida, 1926

Physostomum intermedium Uchida, 1915 (nec Plaget, 1880).
Annot. Zool. Jap., 9: 68, fig. 1. (Type host has not been
designated between this host and Parus ater insularis Hellmayr).
Ricinus medius Uchida, 1926. J. Coll. Agri. Tokyo, 9: 54
(nn for P. intermedium Uchida, 1915).

Auriparus flaviceps (Sunderall)--Verdin

Brüelia audax (Kellogg, 1899)

Nirmus audax Kellogg, 1899. Occ. Pap. Calif. Acad. Sci.,
6: 25, pl. 2, fig. 8.

Psaltriparus minimus (Towsend)--Common Bushtit

Menacanthus robustus (Kellogg, 1896)

Menopen robustum Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 528, pl. 72, fig. 3.

PASSERIFORMES
Certhiidae

Certhia familiaris Linnaeus--Brown Creeper

Penenirmus gulosus (Nitzsch, 1866)

Nirmus gulosus Nitzsch, 1866. Z. ges. NatWiss., 27: 117.

Nirmus trimarginis Carriker, 1902. J. N. Y. Ent. Soc.,
10: 222, pl. 20, fig. 2 and pl. 21, fig. 5.

PASSERIFORMES
Cinclidae

Cinclus mexicanus Swainson--Dipper

Philopterus americanus (Kellogg, 1899)

Docophorus laticeps americanus Kellogg, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 11, pl. 1, fig. 4.

PASSERIFORMES
Troglodytidae

Troglodytes troglodytes (Linnaeus)--Winter Wren

Menacanthus tenuifrons Blagoveschtchensky, 1940

Menacanthus tenuifrons Blagoveschtchensky, 1940. Mag.
Parasit., Leningr., 8: 37 and 81, fig. 10.

Myrsidea troglodyti (Denny, 1842)

Menopon troglodyti Denny, 1842. Mon. Anopl. Brit.: 220
and 201, pl. 18, fig. 7.

Penenirmus albiventris (Scopoli, 1763)

Pediculus albriventris Scopoli, 1763. Ent. Carniolica: 385.

Pediculus motacillae J. C. Fabricius, 1776. Gen. Ins.: 310

(nn for P. albiventris Scopoli, 1763).

Docophorus troglodytis Waterston, 1915. Zool. Jb., Abt. Syst.,
39: 27, figs. c-f.

Ricinus frenatus (Burmeister, 1838)

Physostomum frenatum Burmeister, 1838. Handb. Ent.,
2: 442.

Thryomanes bewickii (Audubon)--Bewick's Wren

Philopterus mirus (Kellogg and Chapman, 1899)

Docophorus mirus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 67, pl. 5, fig. 7.

PASSERIFORMES
Mimidae

Dumetella carolinensis (Linnaeus)--Catbird

Picicola orpheus (Osborn, 1896)

Nirxus orpheus Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 227.

PASSERIFORMES
Turdidae

Turdu migratorius Linnaeus--Robin

Brüelia iliaci brevicolor Ansari, 1956
Brüelia iliaci brevicolor Ansari, 1956. *Biologia*, 2: 110,
figs. 8-13.

Ricinus merulae (Durrant, 1906)
Physostomum merulae Durrant, 1906. *Ohio Nat.*, 7: 35, fig. 1a.

Sturnidoecus simplex (Kellogg, 1896)
Nirmus simplex Kellogg, 1896. *Proc. Calif. Acad. Sci.*,
6: 492, pl. 67, fig. 2.
Philopterus migratorii Peters, 1935. *Proc. Ent. Soc.*
Wash., 37: 146, figs. 1-2.

Hylocichla guttata (Pallas)--Hermit Thrush

Brüelia zeropunctata antiqua Ansari, 1956
Brüelia longifrons antiqua Ansari, 1956. *Biologia*, 2: 122,
figs. 48-52.

Hylocichla ustulata (Nuttall)--Swainson's Thrush

Brüelia zeropunctata zeropunctata Ansari, 1957
Brüelia longifrons longifrons Ansari, 1956 (*nec* Carriker, 1956).
Biologia, 2: 121, figs. 43-47.
Brüelia zeropunctata zeropunctata Ansari, 1957. *Pakistan*
J. Health, 6: 270 (*nn* for Brüelia longifrons longifrons Ansari,
1956).

Myrsidea incerta (Kellogg, 1896)
Menopon incertum Kellogg, 1896. *Proc. Calif. Acad. Sci.*,
6: 533, pl. 73, fig. 2 (Type host has not been designated,
original description included Spinus tristis salicamans
Grinnell).

Myrsidea scabrei Ansari, 1956
Myrsidea scabrei Ansari, 1956. *Pakistan J. Health*, 5: 167,
figs. 4a-e (This form will probably be conspecific with
M. incerta (Kellogg, 1896) if Hylocichla ustulata is designated
type host).

Hylocichla fuscescens (Stephens)--Veery

Myrsidea fuscomarginata (Osborn, 1896)

Menopon fusco-marginatus Osborn, 1896. Bull. U. S.
Bur. Ent. (n.s.), 5: 245.

Sialia sialia (Linnaeus)--Eastern Bluebird

Philoterus sialii (Osborn, 1896)

Docophorus sialii Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 220.

Docophorus incisus Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 474, pl. 65, fig. 3.

PASSERIFORMES
Motacillidae

Motacilla flava Linnaeus--Yellow Wagtail

Brüelia kratochvili Balat, 1958

Brüelia kratochvili Balat, 1958. Prace Brn. Zvl.
Ceskosl. Akad. Vet. Jhrg., 30: 410 and 413.

Philopterus passerinus (Denny, 1842)

Docophorus passerinus Denny, 1842. Mon. Anopl. Brit.: 47
and 104, pl. 5, fig. 12. (Type host has not been designated,
original description includes Motacilla alba Linnaeus).

Anthus spinoletta (Linnaeus)--Water Pipit

Philopterus hanzaki Balat, 1955

Philopterus hanzaki Balat, 1955. Zool. Ent. Listy Jhrg.,
4: 390 and 398, fig. 1.

Ricinus japonicus (Uchida, 1915)

Physostomum japonicus Uchida, 1915. Annot. Zool. Jap.,
9:70.

PASSERIFORMES
Bombycillidae

Bombycilla garrula (Linnaeus)--Bohemian Waxwing

Brüelia brachythorax (Giebel, 1874)

Nirmus brachythorax Giebel, 1874. Insecta Epizoa: 134.

Brüelia rossittensis Keler, 1936. Arb. morph. tax. Ent.
Berlin-Dahlem, 3: 257, fig. 1.

Philopterus garrulae (Piaget, 1880)

Docophorus communis garrulae Piaget, 1880. Les Pediculines:
59, pl. 4, fig. 7.

Ricinus bombycillae (Denny, 1842)

Physostomum bombycillae Denny, 1842. Mon. Anopl.

Brit.: 203 and 242, pl. 23, fig. 5.

Physostomum intermedium Piaget, 1880. Les
Pediculines: 605, pl. 50, fig. 4.

Bombycilla cedrorum Vieillot--Cedar Waxwing

Brüelia cedrorum (Piaget, 1880)

Nirmus brachythorax cedrorum Piaget, 1880. Les
Pediculines: 151, pl. 12, fig. 2.

PASSERIFORMES
Ptiligonatidae

Phainopepla nitens (Swainson)--Phainopepla

Brüelia peninsularis (Kellogg, 1899)

Nirmus peninsularis Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 21, pl. 2, fig. 9.

Picicola foedus (Kellogg and Chapman, 1899)

Nirmus foedus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 87, pl. 6, fig. 7.

PASSERIFORMES
Laniidae

Lanius excubitor Linnaeus--Northern Shrike

Brüelia imponderabilica Eichler, 1954.

Brüelia imponderabilica Eichler, 1954. Nach. Nat. Mus.
Aschaffenburg, 42: 61, pl. 11, fig. 3.

Menacanthus camelinus (Nitzsch, 1874)

Menopon camelinum Nitzsch, 1874. In Giebel, Insecta
Epizoa: 288, pl. 15, fig. 3.

Menacanthus dudiyalatora Ansari, 1951. Proc. Nat. Inst.
Sci. India, 17: 143, figs. 7a-k.

Philopterus fuscicollis (Burmeister, 1838)

Docophorus fuscicollis Burmeister, 1838. Handb. Ent.,
2: 425.

PASSERIFORMES
Sturnidae

Sturnus vulgaris Linnaeus--Starling

Brüelia nebulosa (Burmeister, 1838)

Nirmus nebulosus Burmeister, 1838. Handb. Ent., 2: 429.

Docophorus ochroleucus Nitzsch, 1874. In Giebel,

Inspecta Epizoa: 90.

Brüelia chitlatilyar Ansari, 1956. Indian J. Ent., 17: 395.

Menacanthus mutabilis Blagoveshtschensky, 1940

Menacanthus mutabilis Blagoveshtschensky, 1940. Mag.

Parasit., Leningr., 8: 31 and 78, fig. 5.

Menacanthus himalayicus Ansari, 1951. Proc. Nat. Inst.

Sci. India, 17: 148, figs. 9a-f.

Myrsidea cucullaris (Nitzsch, 1818)

Menopon cucullare Nitzsch, 1818. Germar's Mag. Ent.,
3: 300.

Sturnidoecus sturni (Schrank, 1776)

Pediculus sturni Schrank, 1776. Beytr. Naturgesch.: 118,
pl. 5, figs. 11-14.

Philopterus leotondon Nitzsch, 1818. Germar's Mag. Ent.,
3: 290 (nn for P. sturni Schrank, 1776)

Docophorus ostralegi Denny, 1842. Mon. Anopl.

Brit.: 42 and 74, pl. 5, fig. 4.

PASSERIFORMES
Parulidae

Protonotaria citrea (Boddaert)--Prothonotary Warbler

Ricinus pallens (Kellogg, 1899)

Physostomum pallens Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 49, pl. 4, fig. 7.

Vermivora celata (Say)--Orange-crowned Warbler

Ricinus picturatus (Carriker, 1902)

Physostomum picturatus Carriker, 1902. J. N. Y. Ent.
Soc., 10: 224, pl. 23, fig. 3.

Dendroica petechia (Linnaeus)--Yellow Warbler

Brüelia interposita (Kellogg, 1899)

Nirnaus interpositus Kellogg, 1899. Occ. Pap. Calif.
Acad. Sci., 6: 23, pl. 2, fig. 7.

Myrsidea ridulosa (Kellogg and Chapman, 1899)

Menopon ridulosum Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 135, pl. 9, fig. 4.

Seiurus aurocapillus (Linnaeus)--Oven-bird

Menacanthus aurocapillus Carriker, 1958

Menacanthus aurocapillus Carriker, 1958. Proc. Ent. Soc.
Wash., 60: 172, figs. 6-8.

PASSERIFORMES
Ploceidae

Passer domesticus (Linnaeus)--House Sparrow

Brüelia subtilis (Nitzsch, 1874)

Nirmus subtilis Nitzsch, 1874. In Giebel, *Insecta Epizoa*: 137
(Type host has not been designated, original description
included Passer montanus (Linnaeus); however, common
usage has been to use this name for the form found on Passer
domesticus (Linnaeus).

Brüelia subtilis obligata Eichler, 1954. *Nach. Natur.*
Mus. Aschaffenburg, 42: 63, pl. 13, fig. 6.

Menacanthus annulatus (Giebel, 1874)

Menopon annulatum Giebel, 1874. *Insecta Epizoa*: 285.

Myrsidea quadrifasciata (Piaget, 1880)

Menopon quadrifasciatum Piaget, 1880. *Les Pediculines*: 440,
pl. 35, fig. 6.

Philopterus fringillae (Scopoli, 1772)

Pediculus fringillae Scopoli, 1772. *Ann. V. Hist. Nat.*: 125.

Pediculus passeris DeFourcroy, 1785. *Ent. Parisiensis*,
pt. 2: 519 (nn for "P. subflavescens Geoffroy").

Docophorus communis passeris Piaget, 1880 (*nec* DeFourcroy,
1785). *Les Pediculines*: 59.

Passer montanus (Linnaeus)--European Tree Sparrow

Brüelia cyclothorax (Burmeister, 1838)

Nirmus cyclothorax Burmeister, 1838. *Handb. Ent.*, 2: 429
(Type host has not been designated, original description
included Fringilla montifringilla Linnaeus, however, common
usage has been to use this name for the form found on Passer
montanus (Linnaeus).

Brüelia subtilis (Nitzsch, 1874)

(See Passer domesticus (Linnaeus))

"Philopterus fringillae (Denny, 1842)"

Docophorus fringillae Denny, 1842 (*nec* Scopoli, 1772).
Mon. Anopl. Brit.: 43 and 79, pl. 3, fig. 2.

Sturnidoecus ruficeps (Nitzsch, 1866)

Nirmus ruficeps Nitzsch, 1866. In Giebel, *Z. ges. NatWiss.*,
28: 367.

Philopterus suzume Uchida, 1949. *Jap. Med. J.*, 1: 548,
fig. 16.

PASSERIFORMES

Icteridae

Dolichonyx oryzivorus (Linnaeus)--Bobolink

Menacanthus expansus (Osborn, 1896)

Menopon expansum Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 245, pl. 2, fig. j.

Strunella magna (Linnaeus)--Eastern Meadowlark

Brüelia picturata (Osborn, 1896)

Nirmus picturatus Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 226.

Xanthocephalus xanthocephalus (Bonaparte)--Yellow-headed Blackbird

Brüelia xanthocephali (Osborn, 1896)

Nirmus ornatissimus xanthocephali Osborn, 1896. Bull.
U. S. Bur. Ent. (n.s.), 5: 224.

Agelaius phoeniceus (Linnaeus)--Redwinged Blackbird

Brüelia ornatissima (Giebel, 1874)

Nirxus ornatissimus Giebel, 1874. Insecta Epizoa: 144.
Nirmus illustris Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 494, pl. 67, fig. 4.
Nirmus lautisculus Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 90, pl. 6, fig. 9.

Philopterus agelaii (Osborn, 1896)

Docophorus agelaii Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 220.

Cassidix mexicanus (Gmelin)--Boat-tailed Grackle

Bizarrifrons meinertzhageni Eichler, 1938

Bizarrifrons meinertzhageni Eichler, 1938. Zool. Anz.,
124: 232, figs. 3d and g.

Quiscalus quiscula (Linnaeus)--Common Grackle

Philopterus quiscali (Osborn, 1896)

Docophorus quiscali Osborn, 1896. Bull. U. S. Bur. Ent.
(n.s.), 5: 219, fig. 141.

PASSERIFORMES
Fringillidae

Richmondia cardinalis (Linnaeus)--Cardinal

Menacanthus spinosus (Piaget, 1880)

Menopon spinosum Piaget, 1880. Les Pediculines: 449,
pl. 36, figs. 4-5.

Pheucticus ludovicianus (Linnaeus)--Rose-breasted Grosbeak

Brüelia pallidula (Harrison, 1916)

Nirmus pallidus Osborn, 1896 (nec Piaget, 1880)

Bull. U. S. Bur. Ent. (n.s.), 5: 227.

Degeeriella pallidula Harrison, 1916. Parasitology, 9: 120
(nn for N. pallidus Osborn, 1896).

Passerina versicolor (Bonaparte)--Varied Bunting

Ricinus australis (Kellogg, 1896)

Physostomum australe Kellogg, 1896. Proc. Calif. Acad.
Sci., 6: 516, pl. 70, fig. 4.

Carpodacus mexicanus (Miller)--House Finch

Myrsidea conspicua (Kellogg and Chapman, 1902)

Colpocephalum conspicuum Kellogg and Chapman, 1902.
J. N. Y. Ent. Soc., 10: 163, pl. 14, fig. 4.

Ricinus microcephalus (Kellogg, 1896)

Physostomum microcephalum Kellogg, 1896. Proc. Calif.
Acad. Sci., 6: 513, pl. 70, fig. 1.

Pinicola enucleator (Linnaeus)--Pine Grosbeak

Menacanthus alaskensis (Kellogg and Chapman, 1902)

Menopon alaskensis Kellogg and Chapman, 1902. J. N. Y.
Ent. Soc., 10: 27, pl. 3, fig. 5.

Spinus tristis (Linnaeus)--American Goldfinch

Myrsidea incerta (Kellogg, 1896)

Menopon incertum Kellogg, 1896. Proc. Calif. Acad. Sci.,
6: 533, pl. 73, fig. 2 (Type host has not been designated,
original description includes Hylocichla ustulata Nuttall).

Loxia curvirostra Linnaeus--Red Crossbill

Brüelia limbata (Burmeister, 1838)

Nirmus limbatus Burmeister, 1838. Handb. Ent., 2: 429.

Docophorus serenus Rudow, 1869. Beitr. Kenntn.

Malloph.: 16.

Myrsidea quadrimaculata (Carriker, 1902)

Colpocephalum quadrimaculatus Carriker, 1902. J. N. Y.

Ent. Soc., 10: 223, pl. 21, fig. 4.

Philopterus citrinellae curvirostrae (Schrank, 1776)

Pediculus curvirostrae Schrank, 1776. Beitr. Naturgesch.:
117, pl. 5, fig. 8.

Docophorus compar Plaget, 1880. Les Pediculines: 61,
pl. 7, fig. 1.

Pipilo erythrophthalmus (Linnaeus)--Rufous-sided Towhee

Myrsidea melanorum (Kellogg, 1896)

Mecopon melanorum Kellogg, 1896. Proc. Calif. Acad.

Sci., 6: 532, pl. 73, fig. 1.

Penenirmus quadripustulatus (Kellogg and Mann, 1912)

Docophorus californiensis quadripustulatus Kellogg and Mann,
1912. Ent. News, 23: 57.

Ricinus subhastatus (Durrant, 1906)

Physostomum sub-hastatum Durrant, 1906. Ohio Nat., 6: 528,
fig. 1a.

Passerculus sandwichensis (Gmelin)--Savannah Sparrow

Ricinus diffuscus (Kellogg, 1896)

Physostomum diffusum Kellogg, 1896. Proc. Calif. Acad.

Sci., 6: 518, pl. 70, fig. 3.

Chondestes grammacus (Say)--Lark Sparrow

Brüelia angustifrons (Carriker, 1902)

Nirmus angustifrons Carriker, 1902. J. N. Y. Ent. Soc.,
10: 221, pl. 21, fig. 2.

Junco aikenii Ridgway--White-winged Junco

Ricinus hastatus (Osborn, 1902)

Physostomum hastatum Osborn, 1902. Ohio Nat., 2: 203,
pl. 14, fig. 3.

Junco hyemalis (Linnaeus)--Slate-colored Junco

Brüelia vulgata (Kellogg, 1896)

Nirmus vulgatus Kellogg, 1896. Occ. Pap. Calif. Acad.
Sci., 6: 496, pl. 67, fig. 5.

Ricinus pallidus (Kellogg, 1896)

Physostomum diffusum pallidum Kellogg, 1896. Proc.
Calif. Acad. Sci., 6: 519.

Junco oreganus (Towsend)--Oregon Junco

Penenirmus mirinotatus (Kellogg and Chapman, 1899)

Docophorus mirinotatus Kellogg and Chapman, 1899. Occ.
Pap. Calif. Acad. Sci., 6: 65, pl. 5, fig. 6.

Spizella pusilla (Wilson)--Field Sparrow

Machaerilaemus complexus Malcomson, 1937

Machaerilaemus complexus Malcomson, 1937. Ann. Ent. Soc.
Amer., 30: 53, figs. 1-2.

Zonotrichia atricapilla (Gmelin)--Golden-crowed Sparrow

Machaerilaemus maestus (Kellogg and Chapman, 1899)

Menopon maestum Kellogg and Chapman, 1899. Occ. Pap.
Calif. Acad. Sci., 6: 130, pl. 9, fig. 2.

Melospiza melodia (Wilson)--Song Sparrow

Machaerilaemus melospizae Emerson, 1954

Machaerilaemus melospizae Emerson, 1954. J. Kansas
Ent. Soc., 27: 45, fig. 1.

Menacanthus chrysophaeus (Kellogg, 1896)

Colpocephalum chrysophaeum Kellogg, 1896. Proc. Calif.
Acad. Sci. 6: 520, pl. 71, fig. 1.

Ricinus melospizae (McGregor, 1917)

Physostomum melospizae McGregor, 1917. Ent. News,
28: 436, pl. 28, figs. 3 and 6.

Calcurius lapponicus (Linnaeus)--Lapland Longspur

Brüelia infrequens (Carriker, 1902)

Nirmus infrequens Carriker, 1902. J. N. Y. Ent.
Soc., 10: 220, pl. 20, fig. 3.

Menacanthus meniscus (Piaget, 1880)

Menopon meniscus Piaget, 1880 Les Pediculines: 447,
pl. 36, fig. 7.

Plectrophenax nivalis (Linnaeus)--Snow Bunting

Brüelia nivalis (Giebel, 1874)

Nirmus nivalis Giebel, 1874. Insecta Epizoa: 140.

Myrsidea major (Piaget, 1880)

Menopon quadrifasciatum major Piaget, 1880. Les
Pediculines: 441.

Philopterus hamatus (Packard, 1870)

Docophorus hamatus Packard, 1870. Amer. Nat., 4: 94,
pl. 1, fig. 7.

Ricinus thoracicus (Packard, 1870)

Nirmus thoracicus Packard, 1870. Amer. Nat., 4: 94,
pl. 1, fig. 5.

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