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Catalogue of the Types in the Snow Entomological Museum. Part II (Mallophaga)*

BY

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ABSTRACT: Types of 68 species and subspecies of Mallophaga are listed, together with references, notes on host, present taxonomic status, and type numbers as recorded in the catalogue of the types in the Snow Entomological Museum.

INTRODUCTION

The Snow Entomological Museum of the University of Kansas contains more Mallophaga type material than is generally known. This is because the disposition of all type material has been omitted in a majority of the taxonomic papers. Usually the author has given the disposition of the holotype and allotype, and recorded the number of paratypes. The disposition of paratypes has in most instances, been made by the collector, or curator of the collection from which the series was obtained. The presence of paratypes in the Snow Entomological Museum has not been noted in most papers, as this material was obtained as gifts following publication. The number of species represented is significant; and probably is exceeded, in the United States, in only three or four collections.

Except for the Kellogg type material, all is of recent origin; hence it has presented no unusual problems in the compilation of this list. A few explanatory remarks concerning the Kellogg material are necessary to clarify the position taken with regard to this material. Much of the material utilized by Kellogg, in his first three taxonomic papers on Mallophaga, was obtained during his tenure as a member of the faculty of the University of Kansas, and before joining the faculty of Stanford University. After the publication of

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these papers, some of the type material was returned to the University of Kansas. This information is found in the author's preface of "North American Mallophaga," 1896, Leland Stanford Jr. University, in which he states: "Types of the new species described will be placed in the collections of this University, in the collections of the California Academy of Sciences, and in those of the University of Kansas." Kellogg did not designate a holotype, allotype or type for each species described, but considered all of the material examined as cotypes. In some instances, the series examined by Kellogg contained material which now represents more than one species. In these cases, M. A. Carriker, Jr., the author, and others examining the Kellogg material at Stanford University, have selected as lectotype the specimen from which illustrations were prepared. This was not difficult as the information was noted on the label. All other specimens, which are conspecific with the lectotype, and with the same collection data, are considered by the author to be syntypes. Material which is not conspecific with the lectotype, and that in which the collection data does not agree with that noted in the original description, has not been accepted as syntypes. Mr. M. A. Carriker, Jr., has prepared a paper in which lectotypes are designated for several species. The action taken by Carriker has been recognized during the preparation of this list. All type material is listed alphabetically according to the name given in the original description.

ACKNOWLEDGMENTS

I am greatly indebted to the late Dr. G. F. Ferris for the loan of many types in the Kellogg Collection at Stanford University; to Mr. M. A. Carriker, Jr., for providing me with the manuscript of his paper on the Kellogg Collection; and to Dr. C. D. Michener for assistance and suggestions given during the preparation of this report.

MALLOPHAGA

Actornithophilus mexicanus Emerson, 1953, J. Kansas Ent. Soc., vol. 26, p. 134. Type host: *Himantopus mexicanus* = *Himantopus himantopus mexicanus* (Müller). ♀ paratype, no. 4677, from type host collected May 18, 1933 by A. R. Phillip at Tucson, Arizona. Present status: *Actornithophilus himantopi mexicanus* Emerson, 1953.

Anatoecus autumnalis Carriker, 1956, Florida Ent., vol. 39, p. 126. Type host: *Dendrocygna autumnalis autumnalis* (Linnaeus). ♂ paratype and 2 ♀ paratypes, no. 5643, from type host collected

- September 19, 1946 by O. Shaw at Tamuin, San Luis Potosí, Mexico. Present status: *Anatoecus autumnalis* Carriker, 1956.
- Anatoecus clangulus* Emerson, 1953, J. Kansas Ent. Soc., vol. 26, p. 136. Type host: *Clangula hymenalis* (Linnaeus). ♂ paratype and ♀ paratype, no. 4675, from type host collected January 2, 1950 at Tucson, Arizona. Present status: *Anatoecus clangulus* Emerson, 1953.
- Bovicola americanum* Jellison, 1935, J. Parasit., vol. 21, p. 410. Type host: *Cervus canadensis* (Erxleben). Two ♀ paratypes, no. 5644, from type host collected February, 1935 by C. B. Philip in Yellowstone Park. Present status: *Bovicola americanus* Jellison, 1935.
- Briëlia laticeps prasinus* Carriker, 1954, Florida Ent., vol. 37, p. 199. Type host: *Aulocorhynchus prasinus prasinus* (Gould). Two ♀ paratypes, no. 5674, from type host collected February 7, 1947 by Robert J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Briëlia laticeps prasinus* Carriker, 1954.
- Briëlia marginella xilitla* Carriker, 1954, Florida Ent., vol. 37, p. 200. Type host: *Momotus momota caeruleiceps* (Gould). ♂ paratype and ♀ paratype, no. 5675, from type host collected February 12, 1947 by Robert J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Briëlia marginella xilitla* Carriker, 1954.
- Briëlia melanococca abbasi* Carriker, 1956, Florida Ent., vol. 39, p. 119. Type host: *Thraupis abbas* (Lichtenstein). Two ♀ paratypes, no. 5687, from type host collected January 27, 1947 by Robert J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Briëlia melanococca abbasi* Carriker, 1956.
- Briëlia saltatora* Carriker, 1956, Florida Ent., vol. 39, p. 119. Type host: *Saltator coerulescens vigorsii* G. R. Gray. ♂ paratype, no. 5688, from type host collected January 22, 1947 by Robert J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Briëlia saltatora* Carriker, 1956.
- Carduiceps eroliae* Carriker, 1956, Florida Ent., vol. 39, p. 123. Type host: *Erolia fuscicollis* (Vieillot). ♀ paratype, no. 5689, from type host collected May 21, 1947 by D. S. Farner at Lawrence, Kansas. Present status: *Carduiceps zonarius eroliae* Carriker, 1956.
- Carduiceps lapponicus* Emerson, 1953. Proc. Ent. Soc. Wash., vol. 55, p. 209. Type host: *Limosa lapponica lapponica* (Linnaeus). ♂ paratype and ♀ paratype, no. 5422, from a museum skin of

- type host collected September, 1899 at Mainz, Germany. Present status: *Carduiceps cingulatus lapponicus* Emerson, 1953.
- Carduiceps pusillus* Carriker, 1956, Florida Ent., vol. 39, p. 125. Type host: *Ereunetes pusillus* (Linnaeus). 2 ♀ paratypes, no. 5690, from type host collected May 15, 1947 by George H. Lowery at Lawrence, Kansas. Present status: *Carduiceps zonarius pusillus* Carriker, 1956.
- Colinicola mearnsi* Emerson, 1948, J. Kansas Ent. Soc., vol. 21, p. 137. Type host: *Cyrtonyx montezumae mearnsi* Nelson. ♀ paratype, no. 4069, from type host collected November 25, 1938 by A. R. Phillip at Nogales, Arizona. Present status: *Colinicola mearnsi* Emerson, 1948.
- Colpocephalum osborni* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 521. Type host: *Elanus glaucus* = *Elanus leucurus majusculus* Bangs and Penard. ♂ syntype and ♀ syntype, no. 1336, from type host collected at Palo Alto, California. Present status: *Colpocephalum osborni* Kellogg, 1896.
- Craspedorhynchus brevicapitis* Carriker, 1956, Florida Ent., vol. 39, p. 26. Type host: *Buteo magnirostris griseicauda* Ridgway. ♀ paratype, no. 5691, from type host collected February 12, 1947 by Robert J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Craspedorhynchus brevicapitis* Carriker, 1956.
- Craspedorhynchus genitalis* Carriker, 1956, Florida Ent., vol. 39, p. 29. Type host: *Geranospiza nigra nigra* (Du Bus). ♂ paratype and two ♀ paratypes, no. 5692, from type host collected August 1, 1947 by Robert J. Newman at Heda Capulin, San Luis Potosí, Mexico. Present status: *Craspedorhynchus genitalis* Carriker, 1956.
- Craspedorhynchus tubulus* Carriker, 1956, Florida Ent., vol. 39, p. 26. Type host: *Busarellus nigr. collis nigr. collis* (Latham). ♂ paratype, no. 5693, from type host collected September 19, 1946, by C. Shaw at Tamuin, San Luis Potosí, Mexico. Present status: *Craspedorhynchus tubulus* Carriker, 1956.
- Degeeriella carruthi* Emerson, 1953, J. Kansas Ent. Soc., vol. 26, p. 132. Type host: *Falco sparverius sparverius* Linnaeus. ♂ paratype, no. 5663, from type host collected April 6, 1936 at Flagstaff, Arizona. Present status: *Degeeriella rufa carruthi* Emerson, 1953.
- Docophorus atricolor* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 93. Type host: *Synthliborhampus antiquus* and *Brachyrhampus marmoratus* (both in error) = *Gavia arctica pacifica* (Lawrence); see Emerson, 1955, Ann. Mag. Nat. Hist., series 12, vol. 8,

- p. 719. Two ♀ syntypes, no. 1321, with collection data "*Synthliborhampus antiquus*, Monterey Bay, California". Present status: *Craspedornirmus colymbinus* (Denny), 1842.
- Docophorus californiensis* Kellogg, 1896. Proc. Calif. Acad. Sci., vol. 6, p. 483. Type host: *Melanerpes formicivorus bairdi* Ridgway. Two male syntypes, no. 1324, from the type host collected at Palo Alto, California. Present status: *Penenirmus californiensis* (Kellogg), 1896.
- Docophorus domesticus* Kellogg, 1896. Proc. Calif. Acad. Sci., vol. 6, p. 475. Type host: *Progne subis subis* (Linnaeus). One male syntype, no. 1327, from type host collected at Lawrence, Kansas. Present status: *Philoferus domesticus* (Kellogg), 1896.
- Docophorus excisus major* Kellogg, 1896. Proc. Cal. Acad. Sci., vol. 6, p. 490. Type host: *Petrochelidon lunifrons* = *Petrochelidon albifrons albifrons* Rafinesque (and *Tachycineta bicolor*, error; see Carriker, 1957, Microentomology, 22; p. 97). One ♀ syntype, no. 1328, from type host collected at Palo Alto, California. Present status: *Philoferus major* (Kellogg), 1896.
- Docophorus insolitus* Kellogg, 1896. Proc. Cal. Acad. Sci., vol. 6, p. 94. Type host: *Ptychoramphus aleuticus* (Pallas). One ♂ syntype, no. 1320, from type host collected in the Bay of Monterey, California. Present status: *Saemundssonina insolita* (Kellogg), 1896.
- Docophorus montereyi* Kellogg, 1896. Proc. Cal. Acad. Sci., vol. 6, p. 87. Type host: *Synthliborhampus antiquus* (Gmelin), *Brachyramphus marmoratus marmoratus* (Gmelin) (error), and *Ptychoramphus aleuticus* (Pallas) (error); from Carriker *in litt.* Two ♀ syntypes, no. 5694, from type host collected in Monterey Bay, California. Present status: *Saemundssonina montereyi* (Kellogg), 1896.
- Docophorus occidentalis* Kellogg, 1896, Proc. Cal. Acad. Sci., vol. 6, p. 89. Type host: *Fulmarus glacialis* vars *glupischa* and *rodgersii* = *Fulmarus glacialis rodgersii* Cassin. Three ♀ syntypes, no. 1323, from type host collected in the Bay of Monterey, California. Present status: *Saemundssonina occidentalis* (Kellogg), 1896.
- Docophorus procax* Kellogg and Chapman, 1899, Occ. Pap. Cal. Acad. Sci., vol. 6, p. 54. Type host: *Cephus columba columba* Pallas. ♂ syntype and ♀ syntype, no. 5695, from type host collected in the Bay of Monterey, California. Present status: *Saemundssonina procax* (Kellogg and Chapman), 1899.

- Eurymetopus pacificus* Kellogg, 1914, Sci. Bull. Brooklyn Inst., vol. 2, p. 87. *Nomen novum* for "*Eurymetopus taurus*," sensu Kellogg, 1896 (nec Nitzsch, 1866). Type host: *Diomedea albatrus* Pallas. 2 ♂ syntypes, no. 5696, from type host collected in Monterey Bay, California. This slide is labeled "*Nirmus giganticola*," which is an obvious error. Present status: *Docophoroides pacificus* (Kellogg), 1914.
- Fulicoffula heliornis* Carriker, 1953, Florida Ent., vol. 36, p. 155. Type host: *Helornis fulica* (Boddaert). ♀ paratype, no. 5697, from type host collected July 16, 1947 by Robert J. Newman on Rio Huichihuayan near Xilitla, San Luis Potosí, Mexico. Present status: *Fulicoffula heliornis* Carriker, 1953.
- Giebelia mirabilis* Kellogg, 1896, Proc. Cal. Acad. Sci., vol. 6, p. 138. Type host: *Puffinus opisthomelas* (Coues). Three ♀ syntypes, no. 5698, from type host collected in Monterey Bay, California. Present status: *Trabeculus mirabilis* (Kellogg), 1896.
- Goniocotes creber* Kellogg, 1896. Proc. Cal. Acad. Sci., vol. 6, p. 510. Type host: *Phasianus nychthemerus* = *Gennaeus nychthemerus* (Linnaeus). Two ♀ syntypes, no. 1335, from type host collected in a bird store in San Francisco, California. Present status: *Goniocotes albidus* Giebel, 1874.
- Goniodes merriamanus* Packard, 1873, report U. S. Geological Survey 1872, p. 731. Type host: *Tetrao richardsoni* = *Dendragapus obscurus richardsonii* (Douglas). ♀ neoparatype, no. 4070, from type host collected August 9, 1923 in Missoula County, Montana. Neotypes designated by Emerson, 1948, J. Kansas Ent. Soc., vol. 21, p. 93. Present status: *Goniodes merriamanus* Packard, 1873.
- Gruimenopon canadensum* Edwards, 1949, Psyche, vol. 56, p. 116. Type host: *Grus canadensis canadensis* (Linnaeus). ♂ paratype and ♀ paratype, no. 5361, from type host collected December 11, 1912 by F. B. Armstrong in Refugio County, Texas. Present status: *Gruimenopon canadense* Edwards, 1949.
- Heptapsogaster inexpectatus potosii* Carriker, 1954, Florida Ent., vol. 37, p. 205. Type host: *Crypturellus cinnamomeus mexicanus* (Salvadori). ♀ paratype, no. 5699, from type host collected April 21, 1947 by Robert J. Newman at Rio Axtla, San Luis Potosí, Mexico. Present status: *Heptapsogaster inexpectatus potosii* Carriker, 1954.
- Lagopoecus colchicus* Emerson, 1949, J. Kansas Ent. Soc., vol. 22, p. 78. Type host: *Phasianus colchicus torquatus* Gmelin. ♀

- paratype, no. 4071, from type host collected March 9, 1945 by P. E. Telford at Logan, Utah. Present status: *Lagopoecus colchicus* Emerson, 1949.
- Lagopoecus obscurus* Emerson, 1948, J. Kansas Ent. Soc., vol. 21, p. 137. Type host: *Dendragapus obscurus richardsonii* (Douglas). ♀ paratype, no. 4054, from type host collected July 19, 1930 in the Harlan District, Ravalli County, Montana; and ♂ paratype, no. 4054, from type host collected May 9, 1920 in Ravalli County, Montana. Present status: *Lagopoecus obscurus* Emerson, 1948.
- Lagopoecus umbellus* Emerson, 1950, J. Kansas Ent. Soc., vol. 23, p. 101. Type host: *Bonasa umbellus* (probably *phaia* Aldrich and Friedmann). ♂ paratype and ♀ paratype, no. 4111, from type host collected March 30, 1941 by S. D. Beck in the Moscow Mountains, Latah County, Idaho. Present status: *Lagopoecus umbellus* Emerson, 1950.
- Lipeurus deignani* Emerson and Elbel, 1957. Proc. Ent. Soc. Wash., 59, p. 237, figs. 3 and 19. Type host: *Lophura diardi* (Bonaparte). One ♀ paratype, no. 5719, collected February 3, 1954, at Ban Sang Kho, Khok Phu, Sakon Nakhon, Thailand, by Robert E. Elbel. Present status: *Lipeurus deignani* Emerson and Elbel, 1957.
- Lipeurus diversus* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 123. Type host: *Puffinus opisthomelas* (error) = *Puffinus griseus* (Gmelin); see Hopkins and Clay, 1952, A check list of the genera and species of Mallophaga, British Museum. ♀ syntype, no. 1332, with collection data "*Puffinus opisthomelas*, Monterey Bay, California". Present status: *Halipeurus diversus* (Kellogg), 1896.
- Lipeurus gracilicornis* var *major* Kellogg, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 30. *Epifregata fregatiphagus* Eichler, 1943, Zool. Anz., vol. 141, p. 59, *Nomen novum* for *Lipeurus gracilicornis* var *major* Kellogg, 1899 (*nec. L. major* Piaget, 1880). Type host: *Fregata aquila* = *Fregata magnificens rothschildi* Mathews. ♂ syntype and ♀ syntype, no. 5700, from type host collected in Panamá. Present status: *Pectinopygus fregatiphagus* (Eichler), 1943.
- Lipeurus limitatus* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 124. Type host: *Puffinus griseus* (Gmelin). ♀ syntype, no. 5358, from type host collected in the Bay of Monterey, California. Present status: *Halipeurus diversus* (Kellogg), 1896.

- Lipeurus macrocephalus* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 504. Type host: *Chordeiles virginianus henryi* = *Chordeiles minor henryi* Cassin. Two ♀ syntypes, no. 1334, from type host collected at Palo Alto, California. Present status: *Multicola macrocephalus* (Kellogg), 1896.
- Lipeurus protervus* Kellogg, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 31. Type host: *Lagopus lagopus* = *Lagopus lagopus alexandrae* Grinnell. Two ♀ syntypes, no. 5701, from type host collected on Kodiak Island, Alaska. Present status: *Lagopoecus affinis* (Children), 1836.
- Menopon hopkinsi* Emerson, 1954, Ann. Mag. Nat. Hist., series 12, vol. 7, p. 229. Type host: *Polyplectron malacensis* (Scopoli). ♀ paratype, no. 5665, collected from museum skin of type host collected in Malaya. Present status: *Menopon hopkinsi* Emerson, 1954.
- Menopon infrequens* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 161. Type host: *Larus glaucescens* Naumann. ♂ syntype and ♀ syntype, no. 5702 from type host collected in Monterey Bay, California. Kellogg, in his description, states: "a single female taken from Glaucous-winged Gull, *Larus glaucescens* (Bay of Monterey, California)". It appears that Kellogg made an error in recording the number of specimens examined, as there are also types in the U. S. National Museum and Stanford University. The slide labels clearly indicate that all are a part of the same series. Present status: *Austromenopon infrequens* (Kellogg), 1896.
- Menopon incertum* Kellogg, 1896. Proc. Calif. Acad. Sci., vol. 6, p. 533. Type host: *Spinus tristis* = *Carduelis tristis salicamans* (Grinnell) and *Turdus ustulatus* = *Hylocichla ustulata ustulata* (Nuttall). One ♀ syntype, no. 1319, from *Turdus ustulatus* collected at Palo Alto, California. The type host of this species cannot be determined until the remainder of the type series can be examined. Present status: *Myrsidea incerta* (Kellogg), 1896.
- Menopon numerosum* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 159. Type host: *Fulmarus glacialis* vars *glupischa* and *rodersii* = *Fulmarus glacialis rodersii* Cassin. ♂ syntype and two ♀ syntypes, no. 1317, from type host collected in Monterey Bay, California. This slide is labeled "*Lipeurus varius*" which is obviously in error. The handwriting is the same as that on other Kellogg slides. Present status: *Procellariaphaga brevifimbriata* (Piaget), 1880.

- Menopon praecursor* Kellogg, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 46. Type host: *Melanerpes uropygialis* = *Melanerpes hypopolioides uropygialis* (Baird). ♂ syntype and ♀ syntype, no. 1331, from type host collected in Baja California. Present status: *Menacanthus praecursor* (Kellogg), 1899.
- Menopon titan* var *linearis* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 165. Type host: *Pelecanus californicus* = *Pelecanus occidentalis californicus* Ridgway. ♀ syntype, no. 1318, from type host collected in Monterey Bay, California. Present status: *Piagetiella bursaepelecani* (Perry), 1876.
- Menopon tridens* var *pacificum* Kellogg, 1896, Proc. Calif. Acad. Sci., vol. 6, p. 166. Type host: *Urinator pacificus* (error) and *Fulica americana americana* Gmelin; see Emerson, 1949, Psyche, vol. 56, p. 91. One ♂ syntype and 1 ♀ syntype, no. 1316, from type host collected in Monterey Bay, California. The ♂ is labeled "*Lipeurus ferox*" which is obviously in error; the ♀ is labeled "*Urinator pacificus*, Bay of Monterey, Calif." The handwriting is the same as that on other Kellogg slides. Present status: *Pseudomenopon pacificum* (Kellogg), 1896.
- Meropoecus smithi* Emerson and Elbel, 1956, Ent. News, vol. 67, p. 118. Type host: *Merops leschenaulti leschenaulti* Vieillot. ♂ paratype and ♀ paratype, no. 5703, from type host collected December 22, 1952 by Robert E. Elbel at Ban Khlua Klang, Prachuap Kiri Khan, Thailand. Present status: *Meropoecus smithi* Emerson and Elbel, 1956.
- Mulcticola deignani* Emerson and Elbel, 1957, Canad. Ent., vol. 89, p. 420. Type host: *Caprimulgus macrurus bimaculatus* Peale. One ♂ and 4 ♀ paratypes, no. 5667, from type host collected July 20, 1953 by Robert E. Elbel on Nip Mountain, Lopburi, Thailand. Present status: *Mulcticola deignani* Emerson and Elbel, 1957.
- Nirmus actophilus* Kellogg and Chapman, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 78. Type host: *Calidris arenaria* = *Crocethia alba* (Pallas). ♂ syntype and ♀ syntype, no. 5704, from type host collected in the Bay of Monterey, California. Present status: *Lunaceps holophaeus actophilus* (Kellogg and Chapman), 1899.
- Nirmus complexivus* Kellogg and Chapman, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 75. Type host: *Tringa minutilla* (error) and *Calidris arenaria* = *Crocethia alba* (Pallas); from Carriker in litt. Two ♂ syntypes, no. 1329, from type host collected in

- the Bay of Monterey, California. Present status: *Carduceps zonarius complexivus* (Kellogg and Chapman), 1899.
- Nirmus fusco-marginatus* var *americanus* Kellogg and Chapman, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 69. Type host: *Colymbus nigricollis californicus* (Heermann). ♂ syntype and ♀ syntype, no. 1330, from type host collected in the Bay of Monterey, California. Present status: *Aquanirmus americanus* (Kellogg and Chapman), 1899.
- Nirmus pacificus* Kellogg and Chapman, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 70. Type host: *Lunda cirrhata* (Pallas) (error) and *Cepphus columba columba* Pallas; from Carriker *in litt.* ♂ syntype and ♀ syntype, no. 5359, from type host collected in the Bay of Monterey, California. Present status: *Quadriceps pacificus* (Kellogg and Chapman), 1899.
- Nirmus peninsularis* Kellogg, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 21. Type host: *Phainopepla nitens* = *Phainopepla nitens lepida* van Tyne. Two ♀ syntypes, no. 5360, from type host collected in Baja California. Present status: *Briuelia peninsularis* (Kellogg), 1899.
- Oxylipeurus abdominalis* Carriker, 1956, Florida Ent., vol. 39, p. 129. Type host: *Dendrortyx barbatus* Gould. ♂ paratype and ♀ paratype, no. 5705, from type host collected June 12, 1947 by Robert J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Oxylipeurus abdominalis* Carriker, 1956.
- Oxylipeurus annamensis* Emerson and Elbel, 1957. Proc. Ent. Soc. Wash., 59, p. 238, figs. 2 and 13. Type host: *Lophura diardi* (Bonaparte). One female paratype, no. 5720, collected November 25, 1953 by Robert E. Elbel on Khao Sawan Mountain. Sieo. Loei, Thailand. Present status: *Oxylipeurus annamensis* Emerson and Elbel, 1957.
- Pectinopygus tordoffi* Elbel and Emerson, 1956, Ent. News. vol. 67, p. 173. Type host: *Pelecanus erythrorhynchos* Gmelin. 2 ♂ paratypes and ♀ paratype, no. 5706, from type host collected October, 1954 by Harrison Tordoff at Lawrence, Kansas; and ♂ paratype from type host collected October, 1873 by F. H. Snow at Lawrence, Kansas. Present status: *Pectinopygus tordoffi* Elbel and Emerson, 1956.
- Penenirmus aurifrons* Carriker, 1956, Florida Ent., vol. 39, p. 37. Type host: *Melanerpes aurifrons grateloupensis* (Lesson). Three ♂ paratypes and ♀ paratype, no. 5707, from type host collected February 25, 1947 by George H. Lowrey at San Luis Potosí,

- Mexico. Present status: *Penenirmus auritus aurifrons* Carriker, 1956.
- Penenirmus varius* Emerson, 1953, J. Kansas Ent. Soc., vol. 26, p. 134. Type host: *Sphyrapticus varius varius* (Linnaeus). ♂ paratype and ♀ paratype, no. 4678, from *Sphyrapticus varius nuchalis* Baird collected April 2, 1936 in Arizona. Present status: *Penenirmus auritus varius* Emerson, 1953.
- Philopterus phillipi* Emerson, 1953, J. Kansas Ent. Soc., vol. 26, p. 132. Type host: *Cyanocephalus cyanocephalus* (Wied.). ♂ paratype, no. 4676, from type host collected April 26, 1936 at Flagstaff, Arizona. Present status: *Philopterus phillipi* Emerson, 1953.
- Philopterus tropicalis* Carriker, 1956, Florida Ent., vol. 39, p. 20. Type host: *Stelgidopteryx ruficollis serripennis* (Audubon). ♂ paratype, no. 5708, from type host collected January 4, 1947 by Robert J. Newman at San Luis Potosí, Mexico. Present status: *Philopterus tropicalis* Carriker, 1956.
- Physconelloides passerinae* Emerson, 1957, J. Kansas Ent. Soc., vol. 30, p. 37. Type host: *Columbigallina passerina passerina* (Linnaeus). ♂ paratype and ♀ paratype, no. 5666, from *Columbigallina passerina insularis* Ridgway collected August 16, 1930 by H. S. Peters at Guantanamo, Cuba. Present status: *Physconelloides passerinae* Emerson, 1957.
- Physconelloides spenceri* Emerson and Ward, 1958. J. Kansas Ent. Soc., 31: p. 239, figs. 1 and 4. Type host: *Columba fasciata fasciata* Say. One male and one female paratypes from type host collected October 6, 1952 by G. J. Spencer at Vancouver, British Columbia. Present status: *Physconelloides spenceri* Emerson and Ward, 1958.
- Picicola praeposterus americana* Carriker, 1956, Florida Ent., vol. 39, p. 71. Type host: *Melanerpes carolinus zebra* (Boddaert). Two ♀ and one nymph paratypes, no. 5709, from type host collected October 27, 1946 by George H. Lowrey at Lawrence, Kansas. Present status: *Picicola americana* Carriker, 1956.
- Picicola rubina* Carriker, 1956, Florida Ent., vol. 39, p. 73. Type host: *Pyrocephalus rubinus mexicanus* Sclater. ♀ paratype, no. 5710, from type host collected January 25, 1947 by R. J. Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Picicola rubina* Carriker, 1956.
- Rallicola ortygometrae subporzanae* Emerson, 1957, Proc. Ent. Soc. Wash., vol. 59, p. 186. Type host: *Porzana carolina* (Linnaeus). ♂ holotype and ♀ allotype, no. 5668, from type host collected

- May, 1909 in Douglas County, Kansas. Present status: *Rallicola ortyometrae subporzanae* Emerson, 1957.
- Saemundssonina haemastica* Carriker, 1956, Florida Ent., vol. 39, p. 31. Type host: *Limosa haemastica* (Linnaeus). ♀ paratype, no. 5711, from type host collected May 15, 1947 by George H. Lowrey at Lawrence, Kansas. Present status: *Saemundssonina haemastica* Carriker, 1956.
- Saemundssonina humeralis americana* Carriker, 1956, Florida Ent., vol. 39, p. 31. Type host: *Numenius americanus americanus* Bechstein. ♀ paratype, no. 5712, from type host collected May 25, 1940 by Rollin Baker in Colorado County, Texas. Present status: *Saemundssonina humeralis americana* Carriker, 1956.
- Strigiphilus ketupae* Emerson and Elbel, 1957. Proc. Biol. Soc. Wash., vol. 70, p. 196, figs. 2 and 7. Type host: *Ketupa zeylonensis leschenault* (Temminck). One male and one female paratypes, no. 5721, from type host collected December 26, 1952 by Robert E. Elbel and H. G. Deignan at Huai Yang. Prachuap. Khiri Khan, Thailand. Present status: *Strigiphilus ketupae* Emerson and Elbel, 1957.
- Strigiphilus macrogenitalis* Emerson and Elbel, 1957. Proc. Biol. Soc. Wash., vol. 70, p. 197, figs. 4 and 9. Type host: *Glaucidium cuculoides brügeli* (Parrot). One male and one female paratypes, no. 5722, from type host collected January 5, 1952 by Robert E. Elbel at Ban Lat, Ban Kaeng, Khukhieo, Chaiyaphum. Thailand. Present status: *Strigiphilus macrogenitalis* Emerson and Elbel, 1957.
- Strigiphilus otus* Emerson, 1955, Proc. Ent. Soc. Wash., vol. 57, p. 241. Type host: *Otus asio gilmani* Swarth. ♀ paratype, no. 5664, from type host collected April 24, 1937 by A. R. Phillip at Tucson, Arizona. Present status: *Strigiphilus otus* Emerson, 1955.
- Strigiphilus viridicus* Carriker, 1954, Florida Ent., vol. 37, p. 195. Type host: *Ciccaba virgata centralis* Griscom. Two ♀ paratypes, no. 5613, from type host collected March 12, 1947 by Marcella Newman at Xilitla, San Luis Potosí, Mexico. Present status: *Strigiphilus viridicus* Carriker, 1954.
- Sturnidoecus caligineus mexicanus* Carriker, 1956, Florida Ent., vol. 39, p. 39. Type host: *Turdus infuscatus* (Lafresnaye). Two ♀ and one nymph paratypes no. 5614, from type host collected May 27, 1947 by Robert J. Newman at Cerro Conejo, San Luis Potosí, Mexico. Present status: *Sturnidoecus caligineus mexicanus* Carriker, 1956.