

THE
ANNALS AND MAGAZINE
OF
NATURAL HISTORY.

[ELEVENTH SERIES.]

No. 15. MARCH 1939.

XXIX.—*A List of the Type-hosts of the Mallophaga and the Lice described from them* *. By GORDON B. THOMPSON.

[Continued from Ann. & Mag. Nat. Hist. ser. II, vol. ii, p. 593.]

Superorder NEOGNATHÆ.

Order SPHENISCIFORMES.

Family Spheniscidæ.

53. *Aptenodytes patagonica halli* Mathews.

Nesiotinus demersus Kellogg, 1903. On *Aptenodytes longirostris* from Kerguelen I.

Austrogoniodes brevipes (Giebel), 1876. On *Aptenodytes longirostris* from Kerguelen I.

54. *Aptenodytes forsteri* G. R. Gray. (Emperor Penguin.)

Austrogoniodes mawsoni Harrison, 1937. On *Aptenodytes forsteri*.

55. *Pygoscelis adeliæ* (Hombron & Jacquinet).

Austrogoniodes antarcticus Harrison, 1937. On *Pygoscelis adeliæ* from Adeliæ Land.

* *Note*.—It must be borne in mind when using this list that the type-hosts of the various species of Mallophaga are not fixed but only listed.

Ann. & Mag. N. Hist. Ser. 11. Vol. iii. 16

56. **Eudyptes sclateri** Buller.
Austrogoniodes strutheus Harrison, 1915. On *Eudyptes sclateri*, probably from Southern New Zealand.
57. **Eudyptes crestatus** (J. F. Miller). (Rockhopper Penguin.)
Austrogoniodes macquariensis Harrison, 1937 (part; see no. 58). On *E. chrysocome* * from Macquarie I.
Austrogoniodes hamiltoni Harrison, 1937. On *E. chrysocome* * from Macquarie I.
58. **Eudyptes schlegeli** Finsch.
Austrogoniodes macquariensis Harrison, 1937 (part; see no. 57). On *E. schlegeli* from Macquarie I.
59. **Eudyptula minor novæhollandiæ** (Stephens).
Austrogoniodes waterstoni (Cummings), 1914. On *Eudyptula minor* from Furneaux Is., off Tasmania.
60. **Spheniscus magellanicus** (J. R. Forster).
Austrogoniodes bifasciatus (Piaget), 1885. On *Spheniscus magellanicus (demersus)*. Hyslop coll.

Order GAVIIFORMES.

Family Gaviidæ.

61. **Gavia stellata** (Pontoppidan). (Red-throated Diver.)
Philopterus colymbinus (Denny), 1842. On *Colymbus septentrionalis* from Britain.
Degeeriella frontata (Nitzsch in Giebel), 1866 (part; see no. 62). On *Eudytes septentrionalis*.
62. **Gavia arctica arctica** (Linn.). (Black-throated Diver.)
Degeeriella frontata (Nitzsch in Giebel), 1866 (part; see no. 61). On *Eudytes arcticus*.

Order COLYMBIFORMES.

Family Colymbidæ.

63. **Poliocephalus ruficollis ruficollis** (Pallas). (Little Grebe or Dabchick.)

* This host is referred to as the Victoria Penguin in the original. The name *Catarrhates pachyphynchus* is, however, corrected (to *E. chrysocome*) in a note by the editor at the end of the paper.

- Degeeriella podiceps* (Denny), 1842. On *Podiceps minor* from England.
- Degeeriella runcinata* (Nitzsch in Giebel), 1866 (part; see no. 66). On *Podiceps minor*, apparently from Germany.
64. **Poliocephalus ruficollis capensis** (Salvadori). (African Little Grebe.)
Degeeriella kilimandjarensis (Kellogg), 1910. Straggler on to skin of *Buteo augur* (= *Buteo rufofuscus augur* Rüppell) from adjacent skin of *Colymbus capensis*, Tanganyika Territory.
65. **Colymbus nigricollis californicus** (Heermann). (American Eared Grebe.)
Pseudomenopon insolens (Kellogg), 1896. On *Colymbus nigricollis californicus* * from California.
Eulæmbothrion simile (Kellogg), 1896. On *Colymbus nigricollis californicus* from Kansas.
Philopterus kansensis (Kellogg), 1896. Same data.
Degeeriella americana (Kellogg & Chapman), 1899. On *Colymbus nigricollis californicus* from California.
66. **Colymbus cristatus cristatus** Linn. (Great Crested Grebe.)
Colpocephalum dolium Rudow, 1869. On *Podiceps cristatus*.
Degeeriella runcinata (Nitzsch in Giebel), 1866 (part; see no. 63). On *Podiceps cristatus*, apparently from Germany.
67. **Colymbus auritus** Linn. (Slavonian Grebe.)
Degeeriella colymbina (Scopoli), 1763. On *Colymbus auritus* from Carniola, Yugoslavia.
Degeeriella fuscomarginata (Denny), 1842. On *Podiceps auritus* from Ireland.
68. **Æchmophorus occidentalis** (Lawrence). (Western Grebe.)
Pseudomenopon par (Kellogg), 1896. On *Æchmophorus occidentalis* from Kansas.

* Also recorded from *Sterna forsteri* Nuttall (Kansas, Lawrence), but almost certainly a straggler.

Order PROCELLARIIFORMES.

Family Diomedeidæ.

69. *Diomedea exulans* Linn. (Wandering Albatross.)

Menopon affine Piaget, 1890. On *Diomedea exulans*.
Leyden Mus.

Perineus hyalinus (Neumann), 1911. On *Diomedea exulans* from South Indian Ocean and South of Tasmania.

Perineus lepturus (Enderlein), 1909 (part; see no. 74). On *Diomedea exulans* * from Kerguelen I.

Naubates fuliginosus (Taschenberg), 1882 (part; see no. 73). On *Diomedea exulans*, Meyer coll.

Naubates prioni (Enderlein), 1909 (part; see no. 81). On *Diomedea exulans*, Kerguelen I.

? *Harrisoniella diomedea* (Fabricius), 1775. On *Diomedea* from Brazil.

Episbates angulicollis (Giebel), 1876. On *Diomedea exulans* from Kerguelen I.

Episbates elongatus (Müller), 1927 (*nec Lipeurus elongatus* Packard, 1870), *nom. nov.* for *Lipeurus breviceps* Piaget, 1890, *nec* 1888. On *Diomedea exulans*, Rotterdam Zoo.

Episbates pederiformis (Dufour), 1835. On *Diomedea exulans*.

Esthiopteron nigropunctatum (Enderlein), 1917. On *Diomedea exulans* from between Cape of Good Hope and Tristan da Cunha.

Docophoroides brevis (Dufour), 1835. On *Diomedea exulans*.

Docophoroides dentatus Giebel, 1876. On *Diomedea exulans* from Kerguelen I.

Docophoroides taurus (Giebel), 1861 (*unnecessary nom. nov.* for *brevis* Dufour). On *Diomedea exulans*.

70. *Diomedea albatrus* Pallas. (Short-tailed Albatross.)

Menopon irrupens Kellogg & Chapman, 1899. On *Diomedea albatrus* from California.

Menopon navigans Kellogg, 1896. Same data. (? Straggler from *Sula* sp.; see Sulidæ.)

* I have already expressed the opinion that I do not think this species is its true host (Thompson, 1938).

Colpocephalum pingue Kellogg, 1896. Same data.
Neocolpocephalum minor (Uchida), 1926. On *Diomedea albatrus* from Japan.

Perineus concinnus (Kellogg & Chapman), 1899. On *Diomedea albatrus* from California.

Perineus giganticola (Kellogg), 1896. Same data.

Harrisoniella densa (Kellogg), 1896. Same data.

Docophoroides pacificus (Kellogg), 1914 (*nom. nov.* for *taurus* "Nitzsch." Kellogg, 1896, *nec* Giebel, 1861). On *Diomedea albatrus* * from California.

71. *Diomedea nigripes* Audubon. (Black-footed Albatross.)

Perineus confidens (Kellogg), 1899. On *Diomedea nigripes* from North Pacific.

Episbates macilhennyi (Kellogg & Kuwana), 1900. On *Diomedea nigripes* from Alaska.

Docophoroides ferrisi Harrison, 1937. On *Diomedea nigripes*.

72. *Diomedea melanophris melanophris* Temminck. (Black-browed Mollymawk.)

Harrisoniella ferox (Giebel), 1867. On *Diomedea melanophris*.

Esthiopteron ferreirai de Barros Netto, 1933. On *Diomedea melanophris*.

Docophoroides harrisoni Waterston, 1917. On *Diomedea melanophris* from South Africa.

Docophoroides murphyi (Kellogg), 1914 (part; ?straggler, see nos. 73 and 76). On *Diomedea melanophris* from S. Atlantic.

Docophoroides simplex (Waterston), 1914. On *Diomedea melanophris* † from South Africa.

73. *Diomedea chlororhynchus* Gmelin. (Yellow-billed Mollymawk.)

Naubates fuliginosus (Taschenberg), 1882 (part; see no. 69). On *Diomedea chlororhynchus*, Meyer coll.

Docophoroides murphyi (Kellogg), 1914 (part ‡; see nos. 72 and 76). On *Thalassogeron chlororhynchus* from South Atlantic.

* Also stragglers from *Fulmarus glacialis rodgersii* Cassin.

† This is almost certainly not the true host. It is probably *Phaethria p. palpebrata* (Forster).

‡ This is probably the true host of this species.

74. **Phœbetria palpebrata palpebrata** (Forster). (Light-mantled Sooty Albatross.)
Perineus meridionalis (Rudow), 1869. On *Diomedea fuliginosa*.
Perineus tricolor (Piaget), 1880. On *Diomedea fuliginosa*. Leyden Mus.

75. **Diomedea** (*s. l.*), spp. indet.

- Perineus miriceps* (Kellogg & Kuwana)*, 1902. Described from straggler on *Geospiza fuliginosa* Gould from Galapagos Is., Albemarle I.
Episbates levis (Rudow), 1870. On *Diomedea* sp., South Seas.
Docophoroides tonsus (Rudow), 1869. On *Diomedea* sp., South Seas.

Family **Procellariidæ**.

Subfamily **FULMARINÆ**.

76. **Macronectes giganteus** (Gmelin). (Giant Fulmar.)
Philopterus coloratus (Rudow), 1869. On *Procellaria gigantea*.
Philopterus gaini Neumann, 1913. On *Ossifraga gigantea* from Petermann I.
Perineus obscurus (Rudow), 1869. On *Procellaria gigantea*.
Perineus gaini (Neumann), 1913. On *Ossifraga gigantea*, Petermann I.
Perineus melanocnemis (Giebel), 1874. On *Procellaria gigantea*.
Docophoroides murphyi (Kellogg), 1914 (part; almost certainly straggler; see nos. 72 and 73). On *Ossifraga gigantea* from S. Atlantic.
Docophoroides hunteri Harrison, 1937. On *Macronectes gigantea* from Macquarie I. and King George V. Land.
Trabeculus heteracanthus (Waterston), 1912. On *Procellaria gigantea* from S. Africa.

77. **Daption capensis** (Linn.). (Pintado, or Cape Pigeon.)
Ancistrona procellariæ Westwood, 1874. On *Procellaria capensis*.

* The true host of this species is probably *Diomedea irrorata* Salvin.

- Pseudonirmus gurli* (Taschenberg), 1882. On *Procellaria capensis*.
 ? *Pseudonirmus lugubris* (Taschenberg), 1882. Straggler on *Sula fiber*. Hamburg Mus.
Perineus mutabilis (Piaget), 1880 (part; see no. 78). On *Procellaria capensis*, Leyden Mus.
Naubates testaceus (Taschenberg), 1882. On *Procellaria capensis*, Meyer Coll.
78. **Fulmarus glacialis glacialis** (Linn.). (The Fulmar Petrel.)
Menopon brevifimbriatum Piaget, 1880. On *Procellaria glacialis*.
Ancistrona vagelli (Fabricius), 1787. On *Procellaria glacialis*.
Ancistrona gigas (Piaget), 1885. On *Procellaria glacialis*, Barendt's North Polar Expedition.
Perineus mutabilis (Piaget), 1880 (part; see no. 77). On *Procellaria glacialis*, Leyden Mus.
Perineus nigrolimbatus (Giebel), 1874. On *Procellaria* sp., Arctica ("in höchsten Norden").
79. **Fulmarus glacialis rodgersii** Cassin. (The Glupisch or Pacific Fulmar.)
Menopon numerosum Kellogg, 1896. On *Fulmarus glacialis* vars. *glupischa* and *rodgersii* from California.
Philopterus occidentalis (Kellogg), 1896. On *Fulmarus glacialis pacificus* and *F. g. rodgersii* from California.
Perineus celer (Kellogg), 1896. On *Fulmarus glacialis* vars. *glupischa* and *rodgersii* from California.
Perineus varius (Kellogg), 1896. Same data.
80. **Halobæna cærulea** (Gmelin). (Blue Petrel.)
Naubates clypeatus (Gmelin), 1874. On *Pachyptila cærulescens*.
81. **Pachyptila desolata desolata** (Gmelin).
Naubates prioni (Enderlein), 1909 (part; see no. 69). On *Prion desolatus* from Kerguelen I.

Subfamily **PUFFININÆ**.

82. **Priocella antarctica** (Stephens). (Silver-grey Petrel.)
Colpocephalum cinctum Rudow, 1866. On *Procellaria glacialisoides*.

- Philopterus bicolor Rudow, 1870. Same data.
 "Esthiopterum" * caudatum (Rudow), 1869. On *Procellaria glacialisoides*, South Seas.
83. **Thalassoica antarctica** (Gmelin). (Antarctic Petrel.)
Pseudonirmus antarcticus Harrison, 1937. On *Thalassœca antarctica*.
84. **Adamastor cinereus** (Gmelin). (Pediunker or Grey Shearwater.)
Menopon longithoracicum Piaget, 1880. On *Procellaria cinerea*, Rotterdam Zoo.
Halipeurus angusticeps (Piaget), 1880. Same host species, Leyden Mus.
85. **Procellaria æquinoctialis æquinoctialis** Linn. (White-chinned Petrel or Cape Hen.)
Giebelia hexakon Waterston, 1914. On *Majaqueus æquinoctialis* from S. Africa.
86. **Puffinus creatopus** Coues. (Pink-footed Shearwater.)
Menopon paululum Kellogg & Chapman, 1899 (part; see nos. 89 and 90). On *Puffinus creatopus* from California.
Naubates (fuliginosus var.) major (Kellogg & Chapman, 1899, *nec* *Lipeurus major* Piaget, 1880 (part; see no. 90). Same data.
87. **Puffinus gravis** O'Reilly. (Great Shearwater.)
Naubates harrisoni Bedford, 1930. On *Ardenna gravis* from South Africa, Cape Province.
Halipeurus abnormis (Piaget), 1885. On *Puffinus major*, Amsterdam Zoo.
88. **Puffinus puffinus puffinus** (Brünnich). (Manx Shearwater.)
Trabeculus aviator (Evans), 1912. On *Puffinus anglorum*, Scotland.
Trabeculus dimorphus (Waterston), 1912. Same data.

* It is almost impossible to place this species. It may, however, be a *Pseudonirmus*.

89. **Puffinus griseus** (Gmelin). (Sombre Shearwater.)
Menopon paululum Kellogg & Chapman, 1899 (part; see nos. 86 and 90). On *Puffinus griseus* from California.
Menopon petulans Kellogg & Chapman, 1899. Same data.
Halipeurus petulans Kellogg & Chapman, 1896. Same data.
Giebelia coronata (Giebel), 1874. On *Puffinus fuliginosus*.
90. **Puffinus opisthomelas** Coues. (Black-vented Manx Shearwater.)
Menopon paululum Kellogg & Chapman, 1899 (part; see nos. 86 and 89). On *Puffinus opisthomelas* from California.
Philopterus validus (Kellogg & Chapman), 1899. Same data.
Naubates (fuliginosus var.) major (Kellogg & Chapman), 1899 (part; see no. 86). Same data.
Halipeurus diversus (Kellogg), 1896. Same data.
Giebelia mirabilis Kellogg, 1896. Same data.
91. **Puffinus lherminieri subalaris** Ridgway. (Brown-backed Little Shearwater.)
Menopon narboroughi Kellogg & Kuwana, 1902 (part; see footnote * and *Ardeidæ* later). On *Puffinus subalaris* from Galapagos Is.
Philopterus (validus var.) minor (Kellogg & Kuwana)† 1902, *nec* Piaget, 1880. Same data.
Halipeurus (diversus var.) major (Kellogg & Kuwana), 1902. On *Puffinus subalaris*, Galapagos Is., Albebarle I.
92. **Pterodroma macroptera macroptera** (A. Smith). (Grey-faced or Great-winged Petrel.)

* Also described from specimens taken from *Butorides sumdevalli* Reichenow (*Butorides plumbeus*), Galapagos Is., Narborough I. I am inclined to think that *Puffinus lherminieri subalaris* Ridgway is the true host. (See Thompson, 1938.)

† Also described from specimens taken from *Nesomimus parvulus barringtoni* Rothschild (*Nesomimus carringtoni*), Galapagos Is., Barrington I. I take those specimens to be stragglers. Kellogg and Kuwana frequently used the specific name *carringtoni* for Galapagos birds, but this is an obvious typographical error for *barringtoni*.

- Naubates pterodromi Bedford, 1930. On *Pterodroma macroptera* from South Africa, Cape Province.
- Esthiopterum constrictiventre Pessôa & Guimarães, 1935. On *Aestrelata macroptera* from Brazil.
93. **Pterodroma lessonii lessonii** (Garnot).
Naubates heteroproctus Harrison, 1937. On *Aestrelata lessonii* from Macquarie I.
94. **Pterodroma rostrata rostrata** (Peale). (Thick-billed Petrel.)
Halipeurus marquesanus (Ferris), 1932. On *Pterodroma rostrata* from Marquesas Is.
95. **Pterodroma brevirostris** (Lesson). (Short-billed or Kerguelen Petrel.)
Bedfordiella unica Thompson, 1937. On *Pterodroma brevirostris* from Kerguelen I.
96. **Pterodroma phillipii** (G. R. Gray).
Halipeurus (diversus var.) excavatus Johnston & Harrison, 1912. On *Aestrelata neglecta* from Sunday I.
Halipeurus kermadecense Johnston & Harrison, 1912. On *Aestrelata neglecta* from Kermadec Is.
Gibelia fuscoeypeata Johnston & Harrison, 1912. Same data.
97. **Pterodroma mollis mollis** (Gould). (Soft-plumaged Petrel.)
Colpocephalum furcatum Rudow, 1866. On *Procellaria mollis*.
Trabeculus aestrelatæ (Enderlein), 1917. On *Oestrelata mollis* from sea North-west of Tristan da Cunha.
Trabeculus schillingi Rudow, 1866. On *Procellaria mollis*.
"Esthiopterum" nigricans* (Rudow), 1869. On *Procellaria mollis*. South Seas.
98. **Pagodroma nivea** (Forster). (Small-billed Snowy Petrel.)
Pseudonirmus charcoti (Neumann), 1907. On *Pagodroma nivea*.

* This may be a *Perinans*. (See Thompson, 1938.)

Philopterus antarcticus Wood, 1937. On *Pagodroma nivea* from Adelie Land.

Family **Hydrobatidæ**.

99. **Oceanites gracilis galapagensis** Lowe. (Graceful Storm Petrel.)
Philopterus platycephalus (Kellogg & Kuwana)*, 1902. On *Oceanites gracilis* from Galapagos Is., Albemarle I.
Synnautes exiguus (Kellogg & Kuwana) †, 1902. Same data.
Synnautes languidus (Kellogg & Kuwana) ‡, 1902 (part; see no. 101). Same data.
100. **Hydrobates pelagicus** (Linn.). (Storm Petrel.)
Philopterus thalassidromæ (Denny), 1842. On *Thalassidroma pelagica* from Britain.
Synnautes pelagicus (Denny), 1842. Same data.
Perineus grandis (Piaget) §, 1880. ? Straggler on *Thalassidroma (Procellaria) pelagica*, Rotterdam Zoo.
101. **Oceanodroma tethys tethys** (Bonaparte). (The Galapagos White-rumped Storm Petrel.)
Synnautes languidus (Kellogg & Kuwana), 1902 (part; see no. 99). On *Procellaria tethys* from Galapagos Is., Albemarle I.
Philoceanus becki Kellogg, 1903. On *Procellaria tethys* from Galapagos Is.
102. **Oceanodroma leucorhoa leucorhoa** (Vieillot). (Leach's Fork-tail Petrel.)
Synnautes subangusticeps (Piaget), 1880. On *Thalassidroma leachi*, Rotterdam Zoo.

* Also described from a straggler on *Geospiza f. fuliginosa* Gould from Galapagos Is., Albemarle I. (See Thompson, 1938.)

† See previous footnote.

‡ Also described from stragglers on *Sula sula websteri* Rothschild, *Actitis macularia* (Linn.), *Pyrocephalus nanus intercedens* Ridway, *Nesomimus p. parvulus* (Gould), *Geospiza f. fuliginosa* Gould and *Cactospiza pallida producta* (Ridway) from Galapagos Is.

§ The true host of this species seems to be a Skua. See Stercoraridæ later.

103. **Oceanodroma macrodactyla** W. E. Bryant. (Guadeloupe Fork-tail Petrel.)

Colpocephalum dominicanum Kellogg & Mann, 1912.
On *Oceanodroma macrodactyla*.

104. **Oceanodroma furcata** (Gmelin). (Fork-tail Petrel.)

Philoceanus annuliventris (Uchida), 1917. On
Oceanodroma furcata from Japan.

Family **Pelecanoididæ**.

105. **Pelecanoides urinatrix** (Gmelin). (Diving Petrel.)

Pelmatocerandra eatoni Kellogg, 1914 (*nom. nov.* for
"Lipeurus" setosus Giebel). On *Pelecanoides*
urinatrix from South Georgia I.

106. **Pelecanoides exsul** Salvin*.

Pelmatocerandra setosa (Giebel), 1876. On *Procellaria urinatrix* from Kerguelen I.

[To be continued.]

* This is in all probability a subspecies of *urinatrix* Gmelin.

† Mayr (*loc. cit.*).

‡ Forel, Ann. Soc. Ent. Belg. xxxvii. p. 162 (1893).