

The synonymy and diagnostic characters of the species may now be given :—

Haliclona indistincta (Bowerbank).

Isodictya indistincta Bowerbank, 1866, p. 290; Parfitt, 1868, p. 8; Bowerbank, 1874, p. 131, pl. li. figs. 1-4; 1882, p. 119. *Reniera indistincta* Stephens, 1912, p. 25; 1921, p. 8; *nec* Ridley, 1884, Topsent, 1892, Swartschewsky, 1906, and Ferrer, 1914.

Diagnosis.—External form ranging from irregularly massive and encrusting to flabellate; oscules crateriform, mammiform or in series with margins level with surface; texture, alive and in spirit, soft, compressible, friable, in dried state, firm but fragile; colour alive, yellowish green, olive-green, grey, greyish purple or brown, dried, brown to blackish brown; skeleton a subisodictyal to isodictyal reticulation, unispicular to bi- or trispicular; megascleres oxea, 0·12-0·16 by 0·005-0·006 mm.

Distribution.—Orkney, south-west England (Devon and Cornwall), Ireland (Westport Bay, Ballynakil Harbour and Blacksod Bay), Guernsey, and English Channel. From between tide-marks down to 41 fathoms.

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XXXV.—*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. 1940, ser. 11, vol. vi. p. 418.]

Note.—Unfortunately it was not possible for me to continue with the publication of this list during the war years. The production of this part, however, completes the birds from which Mallophaga have been described, and which are listed in Volume 1 of Peters's "Check-list of the Birds of the World," except for new species of Mallophaga which have been described since the publication of the various parts. A supplement will be published in the future bringing the published lists up-to-date and I shall be grateful for any comments, corrections, etc., which will help to make this list useful to every specialist of the Mallophaga. In order to facilitate the early production of the remainder of this work, it will be appreciated if reprints of all papers dealing with the Mallophaga are sent to me as soon as possible after publication. Copies of the parts of the type-host list published to date are available for exchange.

* 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.

Order FALCONIFORMES.

Suborder CATHARTÆ.

Family Cathartidæ.

271. *Vultur gryphus* Linn. (Condor.)

Menopon gryphus Giebel, 1874. On *Sarcorhamphus gryphus*.

Falcophilus fasciaferum Harrison, 1916, nom. nov. for *fasciatum* Rudow, 1869, nec Scopoli, 1763. On *Sarcorhamphus gryphus*.

Falcophilus zonatum Piaget, 1885. On *Sarcorhamphus gryphus*, Genoa Mus.

Colpocephalum trichosum Harrison, 1916, nom. nov. for *setosum* Piaget, 1880, p. 521, nec p. 519. On *Cathartes (Sarcorhamphus) gryphus*, Rotterdam Zoo.

Degeeriella albescens (Piaget), 1890. On *Sarcorhamphus gryphus*, Leyden Mus.

Struthiolipeurus aetheronomus (Nitzsch) *, in Giebel, 1861. On *Sarcorhamphus gryphus* Dum.

Falcolipeurus assessor (Giebel), 1874. On *Sarcorhamphus gryphus*.

272. *Sarcorhamphus papa* (Linn.). (King Vulture.)

Falcophilus cathartæ-papæ Nitzsch, in Giebel, 1861. On *Sarcorhamphus papa* Linn.

Colpocephalum gypagi Carriker, 1903. On *Gypagus papa* from Costa Rica.

Colpocephalum megalops Giebel, 1874. On *Sarcorhamphus papa*.

Læmbothrion delogramma Carriker, 1903. On *Gypagus papa* from Costa Rica.

Læmbothrion glutinans Nitzsch, in Giebel, 1861. On *Sarcorhamphus papa* Linn.

Philopterus (? *Ægyptecus*) *brevifrons* (Burmeister), 1838. On *Cathartes papa*.

Falcolipeurus breviceps (Giebel), 1874. On *Cathartes papa*.

Falcolipeurus ternatus (Burmeister), 1838. On *Cathartes papa*.

* *Vide* Hopkins (1941, Ann. & Mag. Nat. Hist. ser. 11, vol. vii. p. 36), who states that this species is a synonym of *Struthiolipeurus struthionis* (Gervais)—see No. 1 *antea*.

273. *Cathartes aura septentrionalis* Wied. (Turkey Vulture or Turkey Buzzard.)

Falcophilus alternatum Osborn, 1902. On *Cathartes aura* from Iowa and Nebraska.

Colpocephalum kelloggi Osborn, 1902. Same data.

Falcolipeurus marginalis (Osborn), 1902. On *Cathartes aura* from Iowa.

274. *Cathartes aura aura* (Linn.).

Læmbothrion canalensis Eichler, 1942, nom. nov. for *delogramma* Kellogg & Paine, 1910, nec Carriker, 1903. On *Cathartes aura* from Canal Zone, Panama.

Falcolipeurus (assessor var.) *minor* (Kellogg & Paine), 1910 nec *Lipeurus minor* Piaget, 1880. Same data.

275. New World Vulture?

Falcolipeurus oviceps (Piaget), 1880. On undetermined host.

Suborder FALCONES.

Superfamily SAGITTARIOIDEA.

Family Sagittariidæ.

276. *Sagittarius serpentarius* (J. F. Miller). (Secretary-bird.)

Colpocephalum cucullare Giebel, 1874. On *Gypogeranus serpentarius*.

Colpocephalum (caudatum var.) *major* (Piaget), 1880. On *Gypogeranus serpentarius*.

Læmbothrion grossei Eichler, 1943. On *Sagittarius serpentarius*.

Falcolipeurus secretarius (Giebel), 1874. On *Gypogeranos serpentarius*.

Superfamily FALCONOIDEA.

Family Accipitridæ.

Subfamily ELANINÆ.

277. *Elanus leucurus majusculus* Bangs & Penard. (White-tailed Kite.)

Falcophilus decoratum Kellogg, 1896. On *Elanus leucurus** from California.

* Host record doubtful.

Colpocephalum osborni Kellogg, 1896. On *Elanus glaucus* from California.

Subfamily PERNINÆ.

278. *Pernis apivorus apivorus* (Linn.). (Honey-Buzzard.)
Craspedorhynchus melittoscopus (Nitzsch), in Giebel, 1874. On *Pernis apivorus*.
Degeeriella phlyctopyga (Nitzsch), in Giebel, 1861. On *Falco apivorus* Linn.

Subfamily MILVINÆ.

279. *Harpagus bidentatus* (Latham).
Craspedorhynchus (pachypus var.) cornutus (Piaget), 1880. On *Falco bidentatus*.
280. *Helicolestes hamatus* (Temminck).
Craspedorhynchus obscurus (Giebel), 1874. On *Rosthramus hamatus*.*
Falcolipeurus quadriguttatus (Giebel), 1874. On *Cymindis hamatus* in Berlin [Mus. or Zoo].
281. *Milvus milvus milvus* (Linn.). (European Kite.)
Neocolpocephalum tricinctum wetzeli Eichler, 1941.
On *Milvus milvus milvus*.
Degeeriella regalis (Giebel), 1874. On *Milvus regalis*.
282. *Milvus migrans migrans* (Boddaert). (Black Kite.)
Colpocephalum tricinctum Nitzsch, in Giebel, 1861.
On *Milvus ater* Gmel.
Læmbothrion titan Piaget, 1880. On *Milvus atollus* (ater).
Craspedorhynchus spathulatus (Giebel), 1874. On *Milvus ater*.
Degeeriella appendiculata (Piaget), 1880 (part; see 283 and 325). On *Milvus ater* from Rotterdam Zoo.
Degeeriella stenorhyncha (Giebel), 1874. On *Milvus atollus* (*Falco fuscoater*). [Probably a straggler.]
Degeeriella vittata (Giebel), 1874. On *Milvus ater*.

* True host probably *Rosthramus socialis* (Vieillot). *Vide* Guimarães, 1943, Rev. Soc. ent. Argent. xi. p. 430.

283. *Milvus migrans ægyptius* (Gmelin). (Egyptian Kite.)
Colpocephalum abruptofasciatum Mjöberg, 1910. On *Milvus ægyptius* from Cairo.
Colpocephalum dissimile Piaget, 1880. On *Milvus ægyptius*, Leyden Mus.
Craspedorhynchus milvi (Mjöberg), 1910. On *Milvus ægyptius* from Cairo.
Craspedorhynchus (pachypus var.) penicillatus (Piaget), 1880. On *Milvus ægyptiacus*.
Degeeriella appendiculata (Piaget), 1880 (part; see 282 and 325). On *Milvus ægyptius* from Rotterdam Zoo.
284. *Milvus migrans govinda* Sykes.
Læmbothrion indica Sen, 1942. On *Milvus m. govinda* from Calcutta.
Craspedorhynchus milvi tropica (Sen), 1942. Same data.
285. *Haliastur indus indus* (Boddaert). (Brahminy Kite.)
Craspedorhynchus pachypus (Giebel), 1874. On *Falco pondicerianus*.
286. *Haliastur indus intermedius* Blyth.
Læmbothrion mjöbergi Eichler, 1944. On *Haliastur indus intermedius* Blyth from ? Sumatra (Mjöberg coll.).
Subfamily ACCIPITRINÆ.
287. *Accipiter gentilis gentilis* (Linn.). (Goshawk.)
Craspedorhynchus asturinus (Mjöberg), 1910. On *Astur palumbarius*, Gothenburg Mus.
Craspedorhynchus hæmatopus (Scopoli), 1763. On *Falco palumbrius* from Carniola, Yugoslavia.
Craspedorhynchus platyrhynchus (Nitzsch), 1818, nom. nov. for *hæmatopus* Scopoli, 1763. On *Falco palumbarius*.
Degeeriella vagans (Giebel), 1874. On *Astur palumbarius*.
288. *Accipiter bicolor bicolor* (Vieillot).
Degeeriella (fusca var.) epustulata (Carriker), 1903.
On *Accipiter bicolor* from Costa Rica.

289. *Accipiter nisus nisus* (Linn.). (Sparrow-Hawk.)
Menopon (fulvofasciatum var.) minus Piaget, 1880.
 On *Accipiter (Astur) nisus*.
Craspedorrhynchus gonorhynchus (Giebel), 1861. On
Astur nisus Linn.
Craspedorrhynchus nisi (Denny), 1842. On *Accipiter*
nisus from Britain.
Degeeriella nisus (Giebel), 1874. On *Astur nisus*.

Subfamily BUTEONINÆ.

290. *Geranoæetus melanoleucus melanoleucus* (Vieillot).
Degeeriella aguiæ (Gervais), 1844. On *Falco aguia*
 Temm.
 291. *Buteo rufinus rufinus* (Cretzschmar).
Læmbothrion niethammeri Eichler, 1942. On *Buteo*
rufinus rufinus from Turkey.
 292. *Buteo rufofuscus rufofuscus* (J. R. Forster). (Jackal
 Buzzard.)
Craspedorrhynchus leucogaster (Giebel), 1874. On
Buteo jaktal from Natal, South Africa.
Degeeriella flavida (Giebel), 1874. Same data.
 293. *Buteo jamaicensis borealis* (Gmelin). (Eastern Red-
 tailed Hawk.)
Colpocephalum napiforme Rudow, 1869. On *Buteo*
calurus.
Craspedorrhynchus calurus (Rudow), 1870. On *Buteo*
calurus.
 294. *Buteo jamaicensis costaricensis* Ridgway.
Colpocephalum (osborni var.) costaricense Carriker,
 1903. On *Buteo borealis costaricensis* from Costa
 Rica.
Læmbothrion oligothrix Carriker, 1903. Same data.
 295. *Buteo galapagoensis* (Gould).
Degeeriella curvilineata (Kellogg & Kuwana), 1902.
 Described from stragglers on *Nesopelia galapago-*
ensis and *Oceanites gracilis*, from Albemarle, Gal-
 pagos Is.

296. *Buteo lineatus lineatus* (Gmelin). (Red-shouldered
 Hawk.)
Craspedorrhynchus buteonis (Packard), 1870. On
 Red-shouldered Hawk from New Hampshire,
 U.S.A.
 297. *Buteo swainsoni* Bonaparte.
Læmbothrion buteonivorus (Packard), 1872. On
Buteo swainsoni from Wyoming Territory.
 298. *Buteo buteo buteo* (Linn.). (Common Buzzard.)
Menopon fulvofasciatum Piaget, 1880. On *Buteo*
vulgaris.
Læmbothrion giganteum Nitzsch, 1818, nom. nov.
 for *P. buteonis* J. C. Fabricius, 1776, *P. maximus*
 Scopoli, 1763 and *P. circi* Geoffroy, 1762 (part;
 see 327). On *Falco buteo*.
Læmbothrion maximum (Scopoli), 1763. On *Falco*
buteo from Carniola, Yugoslavia.
Craspedorrhynchus (pachypus var.) angulatus (Piaget),
 1880. On *Buteo vulgaris*.
Philopterus platystomus (Burmeister), 1838. On *Falco*
buteo.
Degeeriella giebeli Hopkins, 1947. On *Buteo b*
buteo from England.
 299. *Buteo lagopus lagopus* (Pontoppidan). (Rough-
 legged Buzzard.)
Craspedorrhynchus dilatatus (Rudow), 1869. On
Falco lagopus.
Craspedorrhynchus eurygaster (Giebel), 1874. On
Buteo lagopus.
Craspedorrhynchus buteolagopi Merisuo, 1945. On
Buteo lagopus from Finland.
Degeeriella angusta (Giebel), 1874. On *Buteo lagopus*.
 300. *Buteo lagopus s. johannis* (Gmelin). (American
 Rough-legged Hawk.)
Craspedorrhynchus taurocephalus (Kellogg), 1896.
 On *Archibuteo lagopus sancti-johannis* from Kansas.
 301. *Buteo platypterus platypterus* (Vieillot). (Broad-
 winged Hawk.)
Menopon macrocybe Carriker, 1903. On *Buteo platy-*
pterus from Costa Rica.

302. *Leucopternis albicollis ghiesbrechti* (DuBus).
Craspedorrhynchus candidus (Rudow), 1870. On
Buteo ghiesbrechti.
(*Goniocotes irregularis* Rudow, 1870. Straggler on
same host.)
303. *Leucopternis semiplumbea* Lawrence.
Craspedorrhynchus (*platystomus* var.) *umbrosus*
(Carriker), 1903. On *Leucopternis semiplumbea*
from Costa Rica.
304. *Hypomorphus urubitinga urubitinga* (Gmelin).
Acutifrons vieirai Guimaraes, 1942. On *Hypo-*
morphus u. urubitinga (Gmelin).
305. *Spizaëtus cirrhatus cirrhatus* (Gmelin). (Crested
Hawk-Eagle.)
Colpocephalum pustulatum Piaget, 1880. On *Gypo-*
geranus (Spizaëtus) cirratus.
Falcolipeurus elongatus (Piaget), 1880 nec *Lipeurus*
elongatus Packard, 1870. On *Spizaëtus cirratus*,
Rotterdam Zoo.
306. *Hieraëtus pennatus* Gmelin.
Læmbothrion hieraaëti Eichler, 1943. On *Hieraëtus*
pennatus Gmelin.
307. *Aquila chrysaëtos chrysaëtos* (Linn.). (Golden Eagle.)
? Colpocephalum flavescens de Haan, 1829. On
“un aigle.”
Colpocephalum impressum Rudow, 1866. On *Aquila*
fulva.
Craspedorrhynchus aquilinus (Denny), 1842. On
Aquila chrysaëtos from Britain.
Craspedorrhynchus chrysophthalmi (Denny), 1842.
On *Clangula chrysophthalmus* from Britain, the
error probably due to a misreading of “Golden
Eagle” as “Golden Eye.”
? Philopterus cicatricosus (Percheron), 1835. On
“Aigle” from Piedmont.
Craspedorrhynchus longisetaceus (Giebel), 1874. On
Aquila fulva.

- Craspedorrhynchus orbicularis (Rudow), 1870. On
Aquila fulva.
Craspedorrhynchus pictus (Giebel), 1874. On *Aquila*
chrysaëtos.
Craspedorrhynchus triangulifer (Gervais), 1844. On
Falco chrysaëtos.
Degeeriella fulva (Giebel), 1874. On *Aquila fulva*
from Pfauen I., Germany (probably captive bird).
Falcolipeurus dennyi (Giebel), 1874, *nom. nov.* for
quadripustulatus Denny, 1842, *nec* Burmeister, 1838.
On *Aquila chrysaëtos* from Britain.
Falcolipeurus suturalis (Rudow), 1869. On *Aquila*
fulva.
Falcolipeurus variopictus (Giebel), 1874 (part; see
316). On *Aquila fulva*.
308. *Aquila nipalensis nipalensis* (Hodgson).
Craspedorrhynchus nipalensis Eichler, 1944. On
Aquila nipalensis (nipalensis Hodgson) from Berlin
Zoo.
Degeeriella aquilarum Eichler, 1943. On *Aquila*
nipalensis from Seschugomba, upper course of
R. Jolung.
309. *Aquila pomarina pomarina* C. L. Brehm.
Craspedorrhynchus nævius (Giebel), 1861. On *Aquila*
nævia Naum.
310. *Aquila verreauxii* Lesson.
Læmbothrion hoeschi Eichler, 1942. On *Aquila*
verreauxi from S.W. Africa.
311. *Aquila wahlbergi* Sundevall.*
Craspedorrhynchus insolitus Kéler, 1938. On “Raub-
vogel aus Ekona, Kamerun.”
312. *Haliaëtus vocifer vocifer* (Daudin). (Fish Eagle.)
Craspedorrhynchus intermedius (Piaget), 1880. On
Haliaëtus vocifer, Rotterdam Zoo.

* Host according to Clay; 1940, Ann. & Mag. Nat. Hist. ser. 11,
vol. vi, p. 433.

313. *Haliæetus leucogaster* (Gmelin).

Colpocephalum (dissimile var.) *major* Piaget, 1885,
nec 1880. On *Haliæetus leucogaster*, Leyden Mus.

314. *Haliæetus leucoryphus* (Pallas).

Colpocephalum ailurum Nitzsch, in Giebel, 1861.
On *Haliætos macei* Temm.

315. *Haliæetus leucocephalus leucocephalus* (Linn.). (Bald Eagle.)

Craspedorhynchus halieti (Osborn), 1896. On *Haliætus leucocephalus* from Florida.
Degeeriella (*discocephalus* var.) *amblys* (Kellogg),
1896. On *Haliætos leucocephalus* from Kansas.

316. *Haliæetus albicilla* (Linn.). (White-tailed Eagle or Sea-Eagle.)

Craspedorhynchus macrocephalus (Nitzsch), in Giebel,
1874. On *Haliætos albicilla*.
Degeeriella discocephala (Burmeister), 1838. On
Aquila albicilla.
Falcolipeurus quadrioculatus (Nitzsch), in Giebel,
1861. On *Haliætos albicilla* Naum.
Falcolipeurus sulcifrons (Denny), 1842. On *Aquila albicilla* from England.
Falcolipeurus variopictus (Giebel), 1874 (part; see
307). On *Haliætos albicilla*.

Subfamily AEGYPIINÆ.

317. *Aegypius monachus* (Linn.). (Cinereous Vulture.)

Aegypœcus brevicollis (Burmeister), 1838. On
Vultur cinereus.
Aegypœcus vulturinus (Kolenati), 1846 (part; see 318).
On *Vultur cinereus* from Transcaucasia.
Falcolipeurus quadripustulatus (Burmeister), 1838.
On *Vultur cinereus*.

318. *Gyps fulvus fulvus* (Hablizl). (European Griffon Vulture.)

Falcophilus gypsis (Eichler), 1943. On *Gyps fulvus*
from Sennaar (Kotschy coll., Vienna Museum).
(?) *Aegypœcus trigonoceps* (Giebel), 1874. On
Vultur fulvus, Reichenbach coll.

Ægypœcus vulturinus (Kolenati), 1846 (part; see 317).

On *Vultur fulvus* Linn. from Transcaucasia.
Læmbothrion bulgaricum Eichler, 1943. On *Gyps f. fulvus* (Hablizl).

Falcolipeurus perspicillatus (Nitzsch), in Giebel, 1861.

On *Vultur fulvus* Linn.

319. *Gyps (fulvus) coprotheres* (J. R. Forster). (Cape Vulture.)

Læmbothrion gypsis Kellogg, 1906. On *Gyps kolbi* from Eastern Transvaal.
Falcolipeurus africanus Bedford, 1931. (*Pseudogyps africanus fulleborni*).*

320. *Gyps himalayensis* Hume.

Falcolipeurus gallivalerioi Eichler, 1941. On *Gyps himalayensis* Hume.
Degeeriella gypsvorum Eichler, 1943. Same data.

321. *Gyps indicus indicus* (Scopoli).

Colpocephalum caudatum Giebel, 1874. On *Vultur indicus*.
Colpocephalum gypæ (Qadri), 1935. On *Gyps indicus indicus* from North India.

322. *Pseudogyps africanus* (Salvadori). (African White-backed Vulture.)

Læmbothrion africanum Kellogg, 1910. On *Pseudogyps africanus* from Tanganyika Territory. (Also straggler from *Ardea purpurea* (Linn.)).
Falcolipeurus lineatus Bedford, 1931. On *Terathopius ecaudatus* and *Gyps coprotheres*.*

323. *Necrosyrtes monachus monachus* (Temminck).

(Common or Hooded Vulture.)
Colpocephalum oxyurum Nitzsch, in Giebel, 1861.
On *Neophron monachus* Lath.
Læmbothrion validum Giebel, 1874. On *Neophron monachus*.
Falcolipeurus monilis (Nitzsch), in Giebel, 1861. On *Neophron monachus* Lath.

* *Vide* Hopkins (1941), Ann. & Mag. Nat. Hist. ser. 11, vol. vii.
pp. 292-293.

324. *Neophron perenopterus perenopterus* (Linn.).
(Egyptian Vulture.)

Menopon albidum Giebel, 1874. On *Neophron percnopterus*.
Læmbobothrion pallidum Giebel, 1874. On *Neophron percnopterus* from Egypt.
Læmbobothrion perenopteri (Gervais), 1844. On *Vultur percnopterus* ("Alger").
Aegypoeus neophron (Clay & Meinertzhagen), 1938.
Neophron p. percnopterus from Egypt.
Falcolipeurus frater (Giebel), 1874. On *Neophron percnopterus*.

325. *Gypaetus barbatus barbatus* (Linn.). (Lammer-
geyer or Bearded Vulture.)

Degeeriella appendiculata (Piaget), 1880 (part; see
282 and 283). On *Spizaetus occidentalis* (Rotterdam
Zoo).
Degeeriella euzonia (Nitzsch), in Giebel, 1861. On
Gypætos barbatus St. (from Switzerland and
Germany).
Degeeriella punctifer (Gervais)*, 1844. On *Gypætos
barbatus* from Atlas [Mts.].
Falcolipeurus quadripunctatus (Nitzsch), in Giebel,
1861. On *Gypætos barbatus* St.

Subfamily CIRCINÆ.

326. *Circus pygargus* (Linn.). (Montagu's Harrier.)

Læmbobothrion nigrolimbatum Giebel, 1874 (part;
see 327). On *Circus cineraceus*.
Degeeriella socialis (Giebel), 1874 (part; see 327).
On *Circus pygargus* and *C. cineraceus*.

327. *Circus aeruginosus aeruginosus* (Linn.).
(Marsh Harrier.)

Colpocephalum bicinctum (Nitzsch), in Giebel, 1861.
On *Circus aeruginosus* Linn.

* The host of this species is almost certainly *Gypaetus b. barbatus* (Linn.), whereas the remainder are probably from *Gypaetus barbatus aureus* (Hablizl).

Læmbobothrion giganteum Nitzsch, 1818, nom. nov.
for *P. buteonis* J. C. Fabricius, 1776, *P. maximus*
Scopoli, 1763 and *P. circi* Geoffroy, 1762. "Pou
de busard des marais, *circus* Bellon" (part;
see 298). On *Falco aeruginosus*.

Læmbobothrion nigrolimbatum Giebel, 1874 (part;
see 326). On *Circus aeruginosus*.

Philopterus (pachypus var.) rotundatus (Piaget),
1880. On *Circus rufus*.

Degeeriella fusca (Denny), 1842. On *Circus rufus*
from Britain.

Degeeriella socialis (Giebel), 1874 (part; see 326).
On *Circus aeruginosus*.

Menopon rotundifrons Blagoveshtchensky, 1940.
On *Circus a. aeruginosus* (L.).

328. *Gymnogenys typicus pectoralis* (Sharpe).

Læmbobothrion eidmanni Eichler, 1942. On *Gymno-
genys typicus pectoralis* (Sharp) from "Spanish
Guinea."

Subfamily CIRCAËTINÆ.

329. *Terathopius ecaudatus* (Daudin). (Bateleur Eagle.)

Colpocephalum (caudatum var.) setosum Piaget,
1880. On *Helotarsus (Circaetus) ecaudatus*.

330. *Circaetus cinerascens* J. W. Müller. (Smaller Banded
Harrier Eagle.)

(?) *Craspedorrhynchus triangularis* (Rudow), 1869. On
Aquila brachydactylus.
Degeeriella leucopleura (Nitzsch), in Giebel, 1874.
On *Falco brachydactylus*.

Subfamily PANDIONINÆ.

331. *Pandion haliaetus haliaetus* (Linn.) (Osprey.)

Læmbobothrion burenschi Eichler, 1943. On *Pandion
haliaetus haliaetus* Linn.

Kurodaia haliaeeti (Denny), 1842. On *Pandion
haliaeetus* from England.

Kurodaia pachygaster (Giebel), 1874. On *Pandion
haliaeetus*,

Family Falconidæ.

Subfamily HERPETOTHERINÆ.

332. *Micrastur semitorquatus semitorquatus* (Vieillot).

Craspedorrhynchus femoralis (Giebel), 1874. On *Falco leucomelas*.

333. *Micrastur ruficollis guerilla* Cassin.

Craspedorrhynchus transversifrons (Carriker), 1903. On *Micrastur guerilla* from Costa Rica.

Subfamily POLYBORINÆ.

334. *Milvago chimango chimango* (Vieillot).

Colpocephalum pectiniferum (Piaget), 1885. On *Milvago pezoporus*, Amsterdam Zoo.

335. *Polyborus planeus planeus* (J. F. Miller).

Colpocephalum polybori Rudow, 1869. On *Polyborus tharos*.

Læmbobothrion caracaraensis Kellogg, 1906. On *Polyborus tharos* from Argentina.

(*Anaticola polybori* (Rudow), 1869. On *Polyborus tharos*; apparently a straggler, perhaps from a duck.)

336. *Polyborus planeus brasiliensis* (Gmelin).

Menopon cingulatum Piaget, 1885. On *Polyborus vulgaris*, Leyden Mus.

Colpocephalum maculatum Piaget, 1880. On *Polyborus (Caracara) brasiliensis*, Rotterdam Zoo.

337. *Polyborus cheriway audubonii* Cassin. (Audubon's Caracara.)

Acutifrons splendidus (Kellogg), 1899. On *Polyborus cheriway* from Lower California, Mexico.

338. *Polyborus lutosus* Ridgway. (Guadeloupe Caracara.)

Degeeriella caracarensis (Kellogg & Mann), 1912. On *Polyborus lutosus* from Guadeloupe I., Lower California, Mexico.

Subfamily FALCONINÆ.

339. *Falco rusticulus islandus* Brünnich. (Iceland Falcon.)

Degeeriella fasciata (Rudow), 1869. On *Falco islandicus*.

340. *Falco peregrinus peregrinus* Tunstall. (Peregrine Falcon.)

Degeeriella nitzschi (Giebel), 1874, nec Ponton, 1872 (part; see 341 and 342). On *Falco peregrinus*.

341. *Falco subbuteo subbuteo* Linn. (European Hobby.)

Læmbobothrion laticolle Nitzsch, in Denny, 1842. On *Falco subbuteo* from Britain.

Læmbobothrion anatolicum Eichler, 1942. On Baumfalken from Turkey [probably straggler].

Degeeriella nitzschi (Giebel), 1874 (part; see 340 and 342). On *Falco subbuteo*.

342. *Falco columbarius æsalon* Tunstall. (Merlin.)

Degeeriella nitzschi (Giebel), 1874 (part; see 340 and 341). On *Falco æsalon*.

343. *Falco vespertinus* Linn. (Red-legged Kestrel.)

Menopon lucidum Rudow, 1869. On *Falco rufipes*.

Degeeriella quadraticollis (Rudow), 1870. On *Falco rufipes*.

344. *Falco tinnunculus tinnunculus* Linn. (Kestrel.)

Læmbobothrion hasticeps (Olfers), 1816. On *Falco tinnunculus*.

Læmbobothrion hastipes Burmeister, 1838. On *Falco tinnunculus*.

Læmbobothrion tinnunculi (Linn.), 1758. On *Falco tinnunculus*.

Degeeriella kunzei (Giebel), 1874. On *Falco tinnunculus*.

Degeeriella rufa (Burmeister), 1838. On *Falco tinnunculus*.

345. *Falco sparverius sparverius* Linn. (American Sparrow Hawk.)
Læmbobothrion intermedium McGregor, 1917. On *Falco sparverius* from Texas.

Miscellaneous FALCONIFORMES.

346. Described from Stragglers or on unidentified hosts.

- Læmbobothrion lichtensteini* Hoffmannsegge, in Giebel, 1874. Straggler on Strauss (=Ostrich) from South Africa.
Læmbobothrion punctatum Gervais, in Gay, 1849. On several undetermined hawks from Chile.
Degeeriella incerta (Piaget), 1885. Straggler on *Totanus glottis*.
Degeeriella pseudophæa (Carriker), 1903. Straggler on *Pezopetes capitalis* from Costa Rica.
? *Degeeriella secondaria* (Osborn), 1896. On *Corvus americanus* from Iowa.

[To be continued]

XXXVI.—*New or little-known Tipulidæ (Diptera).*—
 LXXIX. *Oriental-Australasian Species.* By CHARLES
 P. ALEXANDER, Ph.D., F.R.E.S., University of Massa-
 chusetts, Amherst, Massachusetts, U.S.A.

VIRTUALLY all of the novelties herein considered were taken by Miss L. Evelyn Cheesman in various parts of New Guinea, including the islands of Waigeu and Japen. A few further species are based on extensive series of these flies that were taken in the vicinity of Hollandia, northern Dutch New Guinea, by Mr. Harry Hoogstraal. The types of the Cheesman materials are preserved in the British Museum (Natural History); the Hoogstraal materials are in my personal collection of Tipuloidæ. I wish to express my continued deep thanks to Miss Cheesman and to Mr. Hoogstraal for their interest and thoughtfulness in having devoted the care needed to collect these unusually fragile flies.

new or little-known Tipulidæ.

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Brachypremna waigeuensis, sp. n.

General coloration yellow, the mesonotum conspicuously patterned with brown; thoracic pleura with several brown spots; legs obscure yellow; wings weakly infuscated, the costal border broadly cinnamon brown, the cord and veins beyond very narrowly seamed with brown; R_s short, nearly square at origin; cell 1st M_2 relatively small; abdominal sternites each with a pair of brown spots on basal portions.

Female.—Length about 13 mm.; wing 14 mm.

Frontal prolongation of head yellow, the apex infuscated; palpi obscure yellow, the terminal segment black. Antennæ 9-segmented; scape and pedicel black, flagellum pale brown, the outer segments darker brown. Head yellow; anterior vertex broad, about five times the diameter of scape.

Pronotum brown. Mesonotal præscutum almost uniformly yellow, moderately inflated, patterned with brown, as follows: A spot in the humeral region; posterior ends of three stripes evident just before the suture, the lateral pair larger; each scutal lobe with two brown spots, the more cephalic ones being direct extensions of the lateral præscutal stripes; scutellum narrow but conspicuous, with a median brown stripe; mediotergite with a comparable brown line, pleurotergite chiefly yellow. Pleura yellow, with several brown spots to produce a checkered appearance, the largest on the ventral sternopleurite and meron. Halteres with stem yellow, knob infuscated. Legs with the coxae obscure yellow; trochanters yellow; a single detached leg remains, this obscure yellow, without pattern; outer tarsal segments broken. Wings with the ground weakly tinged with brown, the costal border broadly margined with more cinnamon brown, including all of cells C and Sc and passing into cell R ; stigma slightly darker than the ground, appearing chiefly as a darkened border to the paler area; a broad seam along vein Cu in cell M ; cell 2nd A uniformly darkened; very narrow and inconspicuous brown seams along cord and the outer veins; tips of veins M_2 , M_3 and M_4 abruptly subobsolete, as in the genus; veins beyond cord brownish black, the basal ones, especially in the costal region, paler. Venation: