

Systematic Notes on the Piaget Collections of Mallophaga.—Part I. By THERESA CLAY, British Museum (Natural History).

[Continued from p. 838.]

MENOPON MAJOR Piaget
(1880, p. 471.)

Menopon pallescens var. *major* Piaget.

Type host : *Perdix rubra* = *Alectoris r. rufa* (Linn.).

B.M. : 1 ♂, 1 ♀ *Menopon*, slide no. 211, from type host.

Again no new name will be given to this species, as a revision of the genus *Menopon sens. str.* may show that it is conspecific with another named species from a related host.

Present status : *Menopon major* Piaget *nec* Piaget, 1880, p. 441.

Lectotype of *Menopon pallescens* var. *major* Piaget : ♂ in the B.M., slide no. 211 a.

MENOPON MAJOR Piaget.
(1880, p. 480.)

Menopon tridens var. *major* Piaget.

Type host : *Fulica atra* Linn.

B.M. : 3 ♂♂, 2 ♀♀ *Pseudomenopon*, slides nos. 883-4, from type host.

These specimens agree with authenticated ones from the type host. As shown below under *Menopon tridens* Burmeister, Piaget was confused over the correct type host of this species, which is *Fulica atra*; *major*, described from the type host of *tridens*, therefore, becomes a synonym of this species. Eichler (1937, p. 97) following Piaget's confusion of hosts, renamed *major* as *thompsoni*, this name also becomes a synonym of *tridens*.

Present status: *Pseudomenopon tridens* (Burmeister).

Lectotype of *Menopon tridens* var. *major* Piaget: ♂ in the B.M., slide no. 883.

MENOPON MAMILLATUM Piaget.

(1885, p. 114, pl. xii. fig. 5.)

Type host: *Theristicus caudatus* (Boddaert).

B.M.: 4 ♀♀ *Plegadiphilus*, slides nos. 665-6, from type host.

Present status: *Plegadiphilus mamillatus* (Piaget).

Lectotype of *Menopon mamillatum* Piaget: ♀ in the B.M., slide no. 666.

MENOPON MENADENSE Piaget.

(1880, p. 458, pl. xlii. fig. 8.)

Type host: *Macropygia (Columba) menadensis* = *Turacoena manadensis* (Quoy and Gaimard).

B.M. and Leiden: No specimens.

No specimens of any *Amblycera* have been seen from the type host, but a single female *Hohorstiella* from a species of *Macropygia*, a genus related to *Turacoena*, agrees generically with Piaget's figure. It can be presumed, therefore, that Piaget's original specimen belonged to this genus.

Present status: *Hohorstiella menadensis* (Piaget).

MENOPON MENISCUS Piaget.

(1880, p. 447, pl. xxxvi. fig. 7.)

Type host: *Emberiza lapponica* = *Calcarius lapponicus* (Linn.).

B.M.: 2 ♀♀ *Menacanthus*, slide no. 667, from type host.

Leiden: 1 ♂, 2 ♀♀ *Menacanthus*, slide no. 274 *, from type host.

Present status: *Menacanthus meniscus* (Piaget).

MENOPON MERUM Piaget.
(1885, p. 108, pl. xi. fig. 10.)

Type host : *Ptilopus fasciatus*. Error.

B.M. : 1 nymph *Myrsidea*, slide no. 821, from type host.

The host given is a pigeon (Columbiformes); the type specimen is presumably a straggler from one of the Passeriformes. The identification of its true host will be difficult if not impossible.

Present status : *Myrsidea mera* (Piaget).

(MENOPON MESOLEUCUM (Nitzsch), 1818 (*sensu* Piaget)
(1880, p. 426, pl. xxxiv. fig. 7.)

Type host : *Corvus cornix* = *Corvus corone cornix* Linn.

Piaget's hosts : *Corvus cornix* = *Corvus corone cornix* Linn. and *Corvus corone* = *Corvus corone corone* Linn.

B.M. : 2 ♂♂, 5 ♀♀, 8 nymphs *Myrsidea*, slides nos. 955-9, from *Corvus cornix*.

Leiden : 2 ♀♀ *Myrsidea*, slide no. 266 *, from *Corvus cornix*.

Menopon mesoleucum (Nitzsch), 1818, owes its validity to the reference to de Geer's figure (1778, pl. 4. fig. 11) of *Ricinus cornicis*. This figure is a *Myrsidea*, and *mesoleucum* is merely an unnecessary new name for De Geer's species. As Piaget's specimens agree with *Myrsidea* specimens from the type host of *cornicis*, that is *Corvus corone cornix*, they should be placed under this species.

Present status : *Myrsidea cornicis* (De Geer).

MENOPON MINOR Piaget.
(1880, p. 418.)

Menopon fulvofasciatum var. *minor* Piaget.

Type host : *Accipiter (Astur) nisus* = *Accipiter n. nisus* (Linn.).

B.M. : 3 ♂♂, 2 ♀♀ *Genus c.* (Clay, 1947, p. 471), slide no. 839, from type host.

Lectotype of *Menopon minor* Piaget : ♂ in the B.M., slide no. 839 a.

MENOPON MINOR Piaget.
(1880, p. 420.)

Menopon longipes var. *minor* Piaget.

Type host : *Strix noctua* = *Athene noctua* (Scopoli).

B.M. : 5 ♀♀ *Kurodaia*, slides nos. 694-5, from type host.

Piaget's specimens agree with authenticated material from the type host. Piaget described another *Kurodaia* under *Colpocephalum subpachygaster* from three owls, including *Athene noctua*; the lectotype of this species will be so designated that *Tyto alba* becomes the type host. *Kurodaia cryptostigmation* (Nitzsch), 1861, was described from *Strix passerina*; this latter name has been used for *Athene noctua* and *Glaucidium passerina*, however, in Giebel's host list (1874, viii-ix), there is no mention of *Strix noctua* (= *Athene noctua*), but *Strix pygmeæ*, another name for *Glaucidium passerina*, is given. From this it is almost certain that Nitzsch used *Strix passerina* for the little owl (*Athene noctua*). *K. cryptostigmation* can therefore be used for *M. minor* Piaget, 1880, p. 420, nec Piaget, 1880, p. 418; *K. xairido* (Eichler), 1943, a new name for *M. minor* Piaget, also becomes a synonym of Nitzsch's name.

Present status: *Kurodaia cryptostigmation* (Nitzsch).

Lectotype of *Menopon minor* Piaget: ♀ in the B.M., slide no. 694.

MENOPON MINOR Piaget.

(1885, p. 101.)

Menopon tibiale var. *minor* Piaget.

Type host: *Lamprocolius auratus* = *Hartlaubius auratus* (Müller).

B.M.: 5 ♀♀ *Menacanthus*, slides nos. 872-3, from type host.

Present status: *Menacanthus minor* (Piaget), 1885, nec Piaget, 1880, p. 418.

Lectotype of *Menopon minor* Piaget: ♀ in the B.M., slide no. 872.

MENOPON MINOR Piaget.

(Thompson, 1937, p. 24.)

Menopon fuscofasciatum var. *minor* Piaget.

Type host: *Sterna cantiaca* = *Thalasseus sandvicensis* (Latham).

B.M.: 1 ♂, 2 ♀♀ *Austromenopon*, slide no. 681, from type host and 2 ♂♂, 2 ♀♀ *Austromenopon*, slides nos. 677, 680, from type host, but without varietal name.

Piaget (1880, p. 493) stated that specimens from *Sterna cantiaca* (= *Thalasseus sandvicensis* (Latham) and *Sterna*

gracilis (= *Sterna dougallii gracilis* Gould) differed from typical *fuscofasciatum* from *Lestris pomarina* in certain characters which he enumerated; he did not publish a name for these specimens. Unfortunately Thompson in his list of the Piaget collection (1937, p. 24) published the name *minor* (which is written on one of the above slides, no. 681) as a varietal name; as Thompson also referred to Piaget's remarks on page 493, in which he gives certain characters for these specimens, *minor* becomes valid but pre-occupied.

As Thompson did not mention the second host given by Piaget, this restricts the type host to *Sterna cantiaca*.

Present status: *Austromenopon minor* (Piaget), 1937, nec Piaget, 1880.

Lectotype of *Menopon minor* Piaget: ♂ in the B.M., slide no. 681 a.

MENOPON MINUSCULUM Piaget.

(1885, p. 104, pl. xi. fig. 5.)

Type hosts: *Philepitta jala* de Madagascar = *Philepitta castanea* (Müller) and *Rhipidura* sp. ?

B.M.: 3 ♂♂ *Myrsidea*, slide no. 826, from *Philepitta jala* (Magad.); 1 ♂ *Myrsidea*, slide no. 827, from *Rhipidura* sp. ?

In the absence of specific determination of the *Rhipidura* host, one of the males on slide no. 826 will be designated as lectotype, thus fixing the type host of *minusculum* as *Philepitta castanea* (Müller).

Present status: *Myrsidea minuscula* (Piaget).

Lectotype of *Menopon minuscula* Piaget: ♂ in the B.M., slide no. 826.

MENOPON OBOVATUM Piaget.

(1880, p. 429, pl. xxxiv. fig. 1.)

Type host: *Corvus scapulatus* = *Corvus albus* Müller.

B.M.: 2 ♂♂, 3 ♀♀ *Myrsidea*, slides nos. 410-2, from type host.

Piaget's specimens agree with authenticated material from the type host, but are distinct from *Myrsidea sjaestedti* (Kellogg) and *M. subanaspila* Bedford from the same host.

Present status: *Myrsidea obovata* (Piaget).

Lectotype of *Menopon obovatum* Piaget : ♀ in the B.M., slide no. 401 b.

MENOPON OBSCURUM Piaget.

(1880, p. 497, pl. xl. fig. 8.)

Type host : *Anas radjah* = *Tadorna radjah* (Lesson).

B.M. : 1 ♂ *Holomenopon*, 1 ♂ *Eomenopon*, slide no. 691, from type host.

Leiden : 1 ♂, 1 ♀ *Holomenopon*, slide no. 303*, from type host.

There does not appear to be any reference to the male *Eomenopon* in the description, and the figure is that of the *Holomenopon*; the former specimen is a straggler and should be ignored.

Present status : *Holomenopon obscurum* (Piaget).

Lectotype of *Menopon obscurum* Piaget : ♂ in the B.M., slide no. 691 a.

MENOPON OVATUM Piaget.

(1880, p. 430, pl. xxxiv. fig. 6.)

Type host : *Corvus scapularis* = *Corvus albus* Müller.

B.M. : 1 ♀ *Menacanthus*, slide no. 404, from type host.

This specimen agrees with authenticated *Menacanthus* females from the type host and with a female paratype of *Menacanthus corvus* Bedford, 1930; this latter name, therefore, becomes a synonym of *ovatum*.

Present status : *Menacanthus ovatus* (Piaget).

MENOPON OVATA Piaget.

(1885, p. 102.)

Menopon crassipes var. *ovata* Piaget.

Type host : *Paradisea rubra* Daudin; *P. sexpennis* = *Parotia sefilata* (Forster).

B.M. : 2 ♂♂, 2 nymphs *Myrsidea*, slides nos. 792-3, from *P. rubra*.

As the specimens recorded by Piaget from *Parotia sefilata* are neither in the B.M. nor Leiden collections and are most probably lost, the adult male on slide no. 793 will be designated as lectotype, thus fixing *Paradisea rubra* Daudin as the type host of *ovata*.

Present status : *Myrsidea ovata* (Piaget), 1885, nec Piaget, 1880, p. 430.

Lectotype of *Menopon ovata* (Piaget): ♂ in the B.M., slide no. 793.

MENOPON PACHYPUS Piaget.
(1888, p. 161, pl. iv. fig. 4.)

Type host: *Sterna hirundo* Linn.

B.M.: 1 nymph *Austromenopon* labelled *Menopon fuscofasciatum*, slide no. 679, from *Sterna hirundo*.

There is one slide labelled *Menopon pachypus* in the B.M. collection, but this is obviously an error for *Colpocephalum pachypus* and will be discussed under that genus. The specimen listed above, a nymph *Austromenopon* from the type host, agrees with Piaget's figure of *Menopon pachypus*. Piaget refers to the specimen as a female and it can therefore be presumed that the male genitalia were absent, this together with the shape of the head as shown in the figure makes it certain that Piaget's specimen was a nymph. There seems little doubt, therefore, that the specimen labelled *Menopon fuscofasciatum* from the type host is that from which Piaget made his figure and description of *Menopon pachypus*, and that it should be considered as the type.

Present status: *Austromenopon pachypus* (Piaget).

MENOPON PALLESCENS Nitzsch, 1874 (*nec* Nitzsch, 1866)
sensu Piaget.

(1880, p. 470, pl. xxxviii. fig. 6.)

Type host: *Perdix cinera* = *Perdix p. perdix* (Linn.).

Piaget's host: As type host.

B.M.: 2 ♂♂, 3 ♀♀ *Menopon*, slides nos. 212-213, from type host.

Leiden: 2 ♂♂, 2 ♀♀ *Menopon*, slide no. 286, from type host.

The name *Menopon pallescens* Nitzsch was first published in Giebel, 1866, p. 391. No description was given, but only a reference to *M. fulvo-maculatum* Denny with an incorrect figure number. Nitzsch's description of *M. pallescens* was published by Giebel, 1874, p. 293. Kéler (1937, p. 132) discussed the material on which Nitzsch's description of *pallescens* was based and gave figures which shows it to be a *Menopon sens. str.* *M. fulvo-maculatum* Denny, from a different host, is an

Amyrsidea. It is apparent from these facts that *Menopon pallescens* Nitzsch was first published in 1866 as an unnecessary *nomen novum* for *M. fulvo-maculatum* Denny and must stand as a synonym of that name. As the type material of *Menopon pallescens* Nitzsch, Giebel, 1874 nec *M. pallescens* Nitzsch, Giebel, 1866, as figured by Kéler, 1937, is lost, this species is named *Menopon pallens* and types designated (see below). Piaget's specimens agree with Kéler's figures.

Menopon perdicis Denny, 1842, represented in the B.M. Denny collection by 3 ♀♀, is an *Amyrsidea*. *Menopon megalosomum* Overgaard was described from specimens taken from *Perdix perdix* and *Phasianus colchicus*, no holotype nor type host being designated. This species is an *Amyrsidea* and may prove to be conspecific with *A. perdicis* Denny.

Menopon appendiculatum Piaget, supposedly, from the same host has already been discussed.

Present status: *Menopon pallens*, sp. n.

Holotype of *Menopon pallens*: ♂ in the B.M. collection, slide no. 441, which agrees with Kéler, 1937, fig. 4, from *Perdix p. perdix* from Scotland; allotype: ♀, slide no. 442, with the same data, which agrees with Kéler, 1937, fig. 3; paratypes: 13 ♂♂, 22 ♀♀ from the same host species from various localities.

MENOPON PALLIDUM Nitzsch, 1818 (*sensu* Piaget).
(1880, p. 459, pl. xxxvii, fig. 7.)

Type host: *Gallus domesticus*.

Piaget's hosts: *Gallus domesticus*; "presegue tous les oiseaux de basse-cour; . . . pigeons; canards".

B.M.: 7 ♀♀ *Menopon* and 2 ♂♂, 6 ♀♀, 7 nymphs *Menacanthus*, slides nos. 190-1 and 1010-1012, from *Gallus domesticus*.

Leiden: 1 ♀ *Menopon* and 2 ♂♂, 3 ♀♀ *Menacanthus*, slides nos. 276-7*, from *Gallus domesticus*.

In his figures Piaget has shown the *Menopon* species of the domestic fowl, but has confused the sexes (7 is a male, 7 b and 7 c show the end of the ♀ abdomen). The earliest name for this species is *Menopon gallinæ* (Linn.), of which *M. pallidum* Nitzsch is a synonym.

Present status: *Menopon gallinæ* (Linn.).

MENOPON PALLIDA Piaget.
(1880, p. 471, pl. xxxviii. fig. 7.)

Menopon pallescens var. *pallida* Piaget.

Type host: *Cacabis saxatilis* = *Alectoris gracca saxatilis* (Bechstein).

B.M. and Leiden: No specimens.

The figure shows this to be a species of *Menopon sens. str.*

Present status: *Menopon pallida* Piaget, 1880, nec Nitzsch, 1818.

MENOPON PALLIDA Piaget.
(1885, p. 102, pl. xi. fig. 2.)

Menopon crassipes var. *pallida* Piaget.

Type host: *Epimachus albus* = *Seleucides nigricans* (Shaw).

B.M.: 2 ♂♂, 1 nymph *Myrsidea*, slide no. 794, from type host; 1 ♀ *Myrsidea*, slide no. 630, labelled *Menopon crassipes*, from type host.

The label of slide no. 794 is marked male and female, but it seems unlikely that Piaget made the description of the female from the nymph as he states that "les dimensions de la femelle sont un peu plus fortes" to that of *M. crassipes*; this is not the case with the nymph on slide no. 794. It is probable that the single female on slide no. 630 was the specimen used, Piaget having omitted to add the varietal name to the label. The name *pallida* being pre-occupied by *Menopon pallida* Nitzsch, 1818, Harrison (1916, p. 59) renamed Piaget's species *piageti*.

Present status: *Myrsidea piageti* Harrison.

Lectotype of *Menopon pallida* Piaget: ♂ in the B.M., slide no. 794.

MENOPON PALLIPES Piaget.
(1885, p. 111, pl. xii. fig. 2.)

Type host: *Excalfactoria [chinensis] australis* Gould.

B.M.: 1 ♀ *Menacanthus*, slide no. 207, from type host.

Present status: *Menacanthus pallipes* (Piaget).

MENOPON PARUMPILOSUM Piaget.

(1880, p. 421, pl. xxxiii. fig. 6.)

Type host : *Trichoglossus ornatus*. Error.B.M. : 1 ♀ *Pseudomenopon*, slide no. 1404, from type host.

This specimen recorded from a parrot is a straggler, probably from one of the Rallidæ.

Present status : *Pseudomenopon parumpilosum* (Piaget).

MENOPON PARVICEPS Piaget.

(1880, p. 446, pl. xxxvi. fig. 3.)

Type host : *Alauda arvensis* Linn.B.M. : 2 ♀♀ *Menacanthus*, slide no. 820, from type host.Piaget's specimens agree with authenticated material from the type host. Elsewhere it will be shown that the earliest name for the *Menacanthus* from this host is *M. alaudæ* (Shrank).Present status : *Menacanthus alaudæ* (Shrank).Lectotype of *Menopon parviceps* Piaget : ♀ in the B.M., slide no. 820.

MENOPON PARVULUM Piaget.

(1880, p. 444, pl. xxxv. fig. 4.)

Type host : *Cypselus apus* = *Apus a. apus* (Linn.).B.M. : 1 ♂ *Menacanthus*, slide no. 782, from type host.No *Menacanthus* species has been seen or recorded from any of the Cypseli ; it is likely, therefore, that *Cypselus apus* is not the true host of this species.Present status : *Menacanthus parvulus* (Piaget).

MENOPON PECTINIFERUM Piaget.

(1885, p. 90, pl. ix. fig. 8.)

Type host : *Milvago pezoporus* = *Milvago c. chimango* (Vieillot).B.M. : 1 ♂, 1 ♀ *Osborniella*, slide no. 819, from type host.These specimens are similar to a type of *Colpocephalum* found on the *Cuculi*, of which *Colpocephalum crotophagæ* Stafford has recently been made the type species of a new genus *Osborniella* Thompson, 1948. No other species of this type have been seen from any of the Falconiformes and so it is not possible to say whether Piaget's specimens are stragglers, or whether in addition to *Cuculiphilus*, the

Cuculi and Falconiformes have in common another genus of Amblycera. As *pectiniferum* is rather different from the species from *Crotophaga*, the latter suggestion may be correct.

Present status : *Osborniella pectinifera* (Piaget).

Lectotype of *Menopon pectiniferum* Piaget : ♂ in the B.M., slide no. 819.

MENOPON PERFORATUM Piaget.

(1880, p. 453, pl. xlii. fig. 9.)

Type host : *Eremophila chrysolæna* = *Eremophila alpestris chrysolæma* (Wagler).

B.M. : 1 ♀ *Menacanthus*, slide no. 829, from type host.

Present status : *Menacanthus perforatus* (Piaget).

MENOPON PHÆOPUS Nitzsch, 1866 (*sensu* Piaget).

(1880, p. 501, pl. xli. fig. 8.)

Type host : *Larus ridibundus* Linn.

Piaget's hosts : *Larus ridibundus* Linn. and *Larus glaucus* = *Larus hyperboreus* Gunnerus.

B.M. : 1 ♀, 1 nymph *Austromenopon*, slide no. 297, from *Larus glaucus*.

Leiden : 1 ♀ *Austromenopon*, slide no. 297 *, from *Larus glaucus*.

There is little doubt that *Menopon phæopus* Nitzsch is an *Austromenopon*. *M. ridibundus* Denny was described from the same host ; the figure (1842, pl. xx. fig. 3.), although poor, represents an *Austromenopon*. In the Denny collection in the British Museum there is a single female *Austromenopon* without host which was labelled as the type of *M. ridibundus* by the person responsible for remounting the Denny collection ; this suggests that it was labelled *Menopon ridibundus* by Denny †. This single female agrees with authenticated females from the type host and should be considered as the type specimen. The type of *phæopus* Nitzsch being lost, it can be assumed that this species is the same as *ridibundus* Denny, of which it becomes a synonym.

It is doubtful whether Piaget had any specimens from the first host he mentions ; he probably took this from the original description of *phæopus* ; if this is so, his

† Unfortunately the original labels were not affixed to the slides when the specimens were mounted and now seem to be lost.

description and figure were made from the female specimens now in the collections. The species found on *Larus hyperboreus* is not *ridibundus* and may be new.

MENOPON PHÆOSTOMUM Nitzsch, 1866 (*sensu* Piaget).
(1880, p. 466, pl. xxxviii. fig. 1.)

Type host : *Pavo cristatus* Linn.

Piaget's hosts : *Pavo cristatus* Linn. and *Pavo spiciferus* = *Pavo muticus* Linn. and *Pavo javanacus* = *Pavo muticus* Linn.

B.M. : 2 ♂♂, 2 ♀♀ *Amyrsidea*, slide no. 381, from *Pavo javanicus* ; 6 ♂♂, 3 ♀♀ *Amyrsidea*, slides nos. 382-4, from *P. spiciferus*, one slide marked from Java.

Leiden : 4 ♂♂, 2 ♀♀ *Amyrsidea*, slides nos. 283-4, from *Pavo spicifer*, from Java.

It is doubtful whether Piaget saw specimens from the type host of *phæostomum*, that is *Pavo cristatus* ; his description and figure were probably made from the specimens from *Pavo muticus*. There are three species of *Amyrsidea* parasitic on *Pavo*, one of which is considerably larger than the other two ; a tracing of the figure of *phæostomum* in the Nitzsch manuscript shows that his species is the large one. Piaget specimens resemble one of the smaller species, and are not conspecific with *phæostomum* Nitzsch.

MENOPON PICÆ Piaget.
(1880, p. 433, pl. xxxiv. fig. 2.)

Type host : *Corvus pica* = *Pica pica* (Linn.).

B.M. : 6 ♀♀ *Menacanthus*, slides nos. 411 and 415, from *Pica caudata* = *Pica pica* (Linn.).

Piaget attributed the authorship of this name to Denny, but, as Hopkins (1947, p. 100) has shown, Denny never described such a species ; Hopkins also discusses the species of Menoponidæ from *Pica pica* and shows that *M. picæ* Piaget becomes a synonym of *Menacanthus eury sternum* (Burmeister), the earliest name for the *Menacanthus* from this host.

Present status : *Menacanthus eury sternum* (Burmeister).

Lectotype of *Menopon picæ* Piaget : ♀ in the B.M., slide no. 411 a.

MENOPON PICI Denny, 1842 (*sensu* Piaget).

(1885, p. 93, pl. x. fig. 3.)

Type host : *Picus viridis (pluvius)* Hartert.

Piaget's host : As type host.

B.M. : 3 ♂♂, 6 ♀♀ *Menacanthus*, slides nos. 412-4, from type host.Denny's type material of *Menopon pici*, in the British Museum, comprises 2 ♀♀ *Menacanthus*, of the same species as Piaget's specimens and of authenticated material from the type host.Present status : *Menacanthus pici* (Denny).Lectotype of *Menopon pici* Denny : ♀ in the B.M., Denny collection, slide no. 773.

MENOPON PILOSUM Piaget.

(1880, p. 432, pl. xxxiii. fig. 9.)

Type host : *Corvus senex* = *Corvus tristis* Lesson and Garnot.B.M. : 1 ♂, 2 ♀♀ *Myrsidea*, slide no. 783, from type host.

Leiden : 2 ♀♀, 1 nymph, slide no. 268, from type host.

These specimens comprise two species, in one of these (represented by one of the females on slide no. 783) the anterior abdominal segments of the female are not modified (as shown in pl. xxxiii. fig. 9); in the other (represented by one female on slide 783 and two females on slide 268) the first two abdominal segments of the female are strongly modified. As the description and figure refer to the female with the unmodified abdomen this specimen must be taken as the type of *pilosum*. It is not possible to say to which species the single male belongs. Neither of the species discussed above are conspecific with *M. robsoni* Cummings, allegedly from the same host.

Present status : *Myrsidea pilosa* (Piaget).Lectotype of *Menopon pilosum* Piaget : ♀ in the B.M., slide no. 783.

MENOPON PLANICEPS Piaget.

(1885, p. 115, pl. xii. fig. 6.)

Type host : *Ardea leucolopha* = *Tigriornis leucolopha* (Jardine).

B.M. : 1 ♀ *Ciconiphilus*, slide no. 833, from type host.
Present status : *Ciconiphilus planiceps* (Piaget).

MENOPON PLATYGASTER Giebel, 1874 (*sensu* Piaget).
(1880, p. 420, pl. xxxiii. fig. 5.)

Type host : *Scythrops novæhollandiæ* Latham.

Piaget's host : As type host.

B.M. : 1 ♀, 1 nymph *Cuculiphilus*, slide no. 1405, from type host.

Piaget's female specimen agrees with authenticated females from the type host and with Giebel's description of *M. platygaster*.

Present status : *Cuculiphilus platygaster* (Giebel).

MENOPON POPELLUS Piaget.
(1890, p. 251, pl. x. fig. 5.)

Type host : *Podoa senegalensis* = *Podica senegalensis* (Vieillot). Error.

B.M. : 1 ♂ (labelled ♀) *Austromenopon*, slide no. 830, from type host.

Piaget refers to the female only and the slide is labelled female, but the specimen is a male. Piaget's figure represents a male and it can be assumed that the specimen now in the collection is the one on which Piaget based his description and figure. The specimen is almost certainly a straggler from a member of the *Procellariiformes*.

Present status : *Austromenopon popellus* (Piaget).

MENOPON PRODUCTUM Piaget.
(1880, p. 461, pl. xxxvii. fig. 8.)

Type hosts : *Phasianus pictus* = *Chrysolophus pictus* (Linn.) and *Phasianus colchicus* Linn.

B.M. : 1 ♂, 1 ♀ *Menopon* ; 1 ♂ *Menacanthus*, slide no. 364, from *Phasianus pictus*.

The figure shows a male and female *Menopon sens. str.*, the single male *Menacanthus* should, therefore, be ignored.

As there are no specimens from the second mentioned host, the male from *Chrysolophus pictus* will be made the lectotype, thus fixing that host as the type host of *productum*. Harrison (1916, p. 43) placed this species as a synonym of *M. fulvo-maculatum* Denny, this latter species

is not only from another host, but belongs to the genus *Myrsidea*.

Present status : *Menopon productum* Piaget.

Lectotype of *Menopon productum* Piaget : ♂ in the B.M., slide no. 364 b.

MENOPON PRODUCTUM Piaget.

(1885, p. 109.)

Menopon subæquale var. *producta* Piaget.

Type host : *Euplocomus swinhoii* = *Hierophasis swinhoii* (Gould).

B.M. : 4 ♂♂, 4 ♀♀ *Menopon*, slides nos. 374–376, from type host.

Present status : *Menopon productum* Piaget, 1885, nec Piaget, 1880.

Lectotype of *Menopon productum* Piaget : ♂ in the B.M., slide no. 376 b.

MENOPON PULLULUM Piaget.

(1885, p. 105, pl. xi. fig. 6.)

Type host : *Artamia bernieri* = *Oriolia bernieri* Geoffroy.

B.M. : 1 ♂ *Myrsidea*, slide no. 837, from type host.

Present status : *Myrsidea pullula* (Piaget).

MENOPON PUSTULOSUM Nitzsch, 1866 (*sensu* Piaget).

(1880, p. 490, pl. xli. fig. 3.)

Type host : *Sula alba* = *Morus bassanus* (Linn.).

Piaget's hosts : *Sula alba* and *Sula fiber* = *Sula leucogaster plotus* (Forster).

B.M. : 7 ♂♂, 11 ♀♀ *Eidmaniella*, slides nos. 935–943, from *Sula alba* ; 1 ♂, 2 ♀♀, slide no. 934, from *Sula bassana*.

Leiden : 1 ♂, 1 ♀ *Eidmaniella*, slide no. 304 *, from *Sula alba*.

Piaget's specimens agree with authenticated material from the type host of *pustulosum*. Kéler in his original description of the genus *Eidmaniella* (1938, p. 84) placed *Menopon pustulosum* Nitzsch, the type material of which he had seen, in that genus ; there is little doubt that Piaget's specimens are conspecific with *pustulosum* Nitzsch.

Present status : *Eidmaniella pustulosa* (Nitzsch).

MENOPON QUADRIFASCIATUM Piaget.
(1880, p. 440, pl. xxxv. fig. 6.)

Type host : *Passer [d.] domesticus* (Linn.).

B.M. and Leiden : No specimens.

The characters of the head, prosternal plate and abdominal sternites as shown in the figure represent those of a species of *Myrsidea*. That Piaget's original specimens were, in fact, *Myrsidea* is to some extent confirmed by the presence in the collection of a slide labelled *Menopon quadrifasciatum* from *Passer montanus* with two specimens of *Myrsidea*. *Menopon annulatum* Giebel from the same host is almost certainly a *Menacanthus*. *Liotheum scopularium* Neumann allegedly from *Passer domesticus* appears, from the figure, to be an *Actornithophilus* and is presumably a straggler from one of the Charadriiformes.

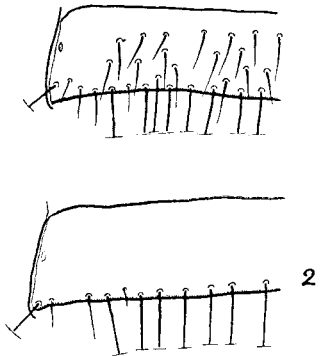
Present status : *Myrsidea quadrifasciata* (Piaget).

MENOPON RUSTICUM Giebel, 1874 (*sensu* Piaget).
(1880, p. 443, pl. xxxvi. fig. 2.)

Type host : *Hirundo [r.] rustica* Linn.

Piaget's hosts : Type host and *Hirundo riparia* = *Riparia r. riparia* (Linn.).

Figs. 1 and 2.



Part of tergite V ($\times 156$) of *Myrsidea* spp.

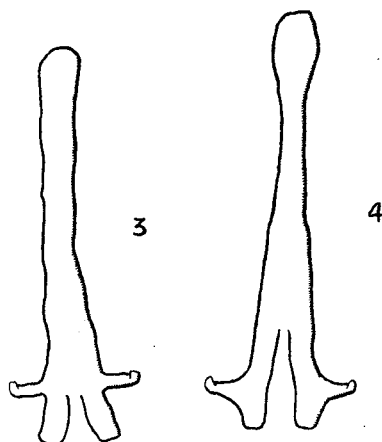
Fig. 1.—*M. rustica* (Giebel).

Fig. 2.—*M. latifrons* (Carriker).

B.M. : 1 nymph *Myrsidea*, slide no. 1043, from *Hirundo rustica* ; 1 ♀ *Myrsidea*, slide no. 1042, from *Hirundo riparia*.

Available specimens of *Myrsidea* from European *Hirundo r. rustica* and *Riparia r. riparia* show that these two hosts are parasitized by distinct species. The most obvious difference between these species is the presence of one or more irregular rows of setæ anterior to the marginal row of each of the abdominal tergites (fig. 1 and Conci, 1942, fig. 2) in male specimens from *Hirundo r. rustica*, and the absence of these setæ in male specimens from *Riparia r. riparia* (fig. 2 and Carriker, 1910, fig. 4); the males can also be distinguished by the shape of the sclerite in the preputial sac (fig. 3 and 4, not shown in

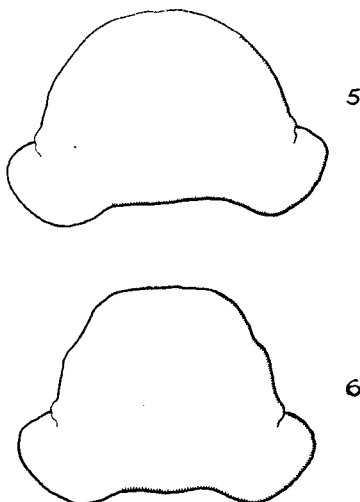
Figs. 3 and 4.

Sclerites from preputial sac ($\times 680$) of *Myrsidea* spp.Fig. 3.—*M. rustica*.Fig. 4.—*M. latifrons*.

(Conci, 1942, fig. 2) and both sexes by the shape of the head (figs. 5 and 6). Conci has figured the male with the plural rows of tergal setæ as *Myrsidea rustica* Giebel, the type host of which is *H. r. rustica*; as Giebel's types are now lost, a neotype and neallotype from this host which agree with Conci's figure will be designated. *Nitzschia latifrons* Carriker, 1910, from *Riparia r. riparia* (Linn.) is almost certainly the usual species of *Myrsidea* found on the European *Riparia r. riparia*, with a single row of tergal setæ in the male, and is the earliest name for that species. Thompson (1935, p. 153) has dealt with the types, now in the British Museum, of two species of *Myrsidea*

described by Kistiakowski (as *Nitzschia*) from *Hirundo* and *Riparia*, but these are not both synonym of *M. rustica* as he suggests. *Myrsidea piageti* (Kistiakowsky), 1926, was described from a male specimen from *Hypotrachiorhis subbuteo* (one of the Falconiformes) and a female from *Riparia r. riparia*; these specimens are both *M. latifrons* (Carriker), the one allegedly from the hawk,

Figs. 5 and 6.

Outlines of female heads ($\times 86$) of *Myrsidea* spp.Fig. 5.—*M. rustica*.Fig. 6.—*M. latifrons*.

without doubt, being a straggler from *Riparia riparia*. *Myrsidea femoralis* (Kistiakowsky), 1926, was described from a female last stage nymph or teneral adult taken from *Hirundo rustica gutturalis* Scop., and although this is in poor condition there seems little doubt that it is *M. rustica sensu* Conci.

Piaget's adult specimen (which he figures in pl. xxxvi. fig. 2) allegedly from *Riparia riparia*, is *Myrsidea rustica*; the nymph is unidentifiable.

The synonymy of the species discussed above is as follows :—

Myrsidea rustica (Giebel), 1874. Type host: *Hirundo r. rustica* Linn. *M. femoralis* (Kistiakowsky), 1926.

Myrsidea latifrons (Carriker), 1910. Type host: *Riparia r. riparia* (Linn.). *M. piageti* (Kistiakowsky), 1926.

Neotype and neallotype of *Menopon rusticum* Giebel: ♂ (slide no. 443) and ♀ (no. 444) in the B.M., which agree with figs. 1, 3, 5 and with Conci, 1942, figs. 1-2, from *Hirundo r. rustica* Linn., England; 6 ♂♂ and 25 ♀♀ paratypes from the same host species from various localities.

Lectotype of *Nitzschia piageti* (Kistiakowsky): ♀ in the B.M., slide no. 209, from *Riparia r. riparia* (Linn.), Kiev, U.S.S.R.

MENOPON SATURATUM Piaget.

(1885, p. 96, pl. x. fig. 6.)

Type host: *Corvus enca* de Sumatra = *Corvus enca compiler* Richmond.

B.M.: 1 ♂, 1 ♀ *Myrsidea*, slide no. 405, from type host and locality.

These specimens are not conspecific with *Myrsidea grandiceps* (Piaget) allegedly from another subspecies of *Corvus enca*.

Present status: *Myrsidea saturata* (Piaget).

Lectotype of *Menopon saturatum* Piaget: ♀ in the B.M., slide no. 405 G.

MENOPON SCALARIS Piaget.

(1885, p. 95, pl. x. fig. 5.)

Menopon impar var. *scalaris* Piaget.

Type host: *Psittacus* [e.] *erithacus* Linn.

B.M.: There is no slide labelled *scalaris*, but one of the slides (no. 431) labelled *impar* has *Psittacus erithacus* on the host label. This slide has two female *Psittacomenopon* of the type shown in the figure of *scalaris* and there is no doubt that these specimens are Piaget's type material.

These females agree with authenticated material from the type host. It has already been shown (p. 818) that the earliest name for this species is *P. heterocephalum* (Nitzsch).

Present status: *Psittacomenopon heterocephalum* (Nitzsch).

Lectotype of *Menopon scalaris* Piaget: ♀ in the B.M., slide no. 431.

MENOPON SCITUM Piaget.

(1880, p. 442, pl. xlii. fig. 6.)

Type host : *Copsychus mindanensis* Wagler. Error.B.M. : 1 ♂ *Pseudomenopon*, slide no. 769, from type host.The alleged host is a *Passerine*, a group from which *Pseudomenopon* is not known ; the true host is probably one of the Rallidæ.Present status : *Pseudomenopon scitum* (Piaget).

MENOPON SEMILUNARE Piaget.

(1880, p. 424, pl. xxxiii. fig. 8.)

Type host : *Cuculus orientalis*. Error.B.M. : 1 ♂ *Eomenopon*, slide no. 843, from type host.This specimen is presumably a straggler from one of the Psittaciformes, the only order on which *Eomenopon* is known to occur.Present status : *Eomenopon semilunare* (Piaget).

MENOPON SETOSUM Piaget.

(1885, p. 103, pl. xi. fig. 4.)

Type host : *Coccothraustes vulgaris* = *Coccothraustes c. coccothraustes* (Linn.).B.M. : 2 ♀♀ *Menacanthus*, slide no. 855, from type host.Present status : *Menacanthus setosus* (Piaget).Lectotype of *Menopon setosum* (Piaget) : ♀ in the B.M., slide no. 855.

MENOPON SPINIFERUM Piaget.

(1885, p. 99, pl. x. fig. 9.)

Type host : *Cyanocorax pileatus* = *Cyanocorax chrysops* (Vieillot).B.M. : 1 ♂, 7 ♀♀ *Menacanthus*, slides nos. 1406-8, from type host.Present status : *Menacanthus spiniferus* (Piaget).Lectotype of *Menopon spiniferum* Piaget : ♂ in the B.M., slide no. 1406.

MENOPON SPINOSUM Piaget.

(1880, p. 449, pl. xxxvi. figs. 4-5.)

Type host : *Cardinalis virginianus* = *Richmondia cardinalis* (Linn.).

B.M. : 2 ♂♂, 7 ♀♀ *Menacanthus*, slides nos. 856-9, from type host.

Leiden : 1 ♂, 2 ♀♀, *Menacanthus*, slide no. 273 *, from type host.

Present status : *Menacanthus spinosus* (Piaget).

Lectotype of *Menopon spinosus* Piaget : ♂ in the B.M., slide no. 859.

MENOPON SUBÆQUALE Piaget.

(1880, p. 463, pl. xxxvii. fig. 5.)

Type host : *Euplocamus ignitus* = *Lophura ignita* (Shaw).

B.M. : 6 ♂♂ *Amyrsidea*, slides nos. 361, 367-9, from type host.

Leiden : 2 ♀♀ *Amyrsidea*, slide no. 369, from type host.

Harrison (1916, p. 45) re-named this species *substitutum*, considering that it was invalidated by *subæquale* Lyonet, 1889; however, Mr. G. H. E. Hopkins has pointed out (*in litt.*) that Piaget's name is valid because *subæquale* Lyonet was described as a *Liotheum* (e.g. *Colpocephalum*) and is now in *Myrsidea*.

Present status : *Amyrsidea subæqualis* (Piaget).

Lectotype of *Menopon subæquale* Piaget : ♂ in the B.M., slide no. 361 b.

MENOPON SUBROTUNDUM Piaget.

(1880, p. 453, pl. xxxv. fig. 2.)

Type host : *Gracula sulcirostris* = *Phalacrocorax sulcirostris* (Brandt).

B.M. : 1 ♂, 1 ♀ *Eidmaniella*, slide no. 851, labelled *Menopon rotundum*, from type host.

As Thompson (1937, p. 26) has said, there seems little doubt that these specimens, although incorrectly labelled, are the type material used by Piaget for his original description.

Present status : *Eidmaniella subrotunda* (Piaget).

MENOPON SULCATUM Piaget.

(1880, p. 485, pl. xxxix. fig. 7.)

Type host : *Ardea egretta* = *Casmerodius albus egretta* (Gmelin).

B.M. and Leiden : No specimens.

No specimens of any Amblyceran genus have been seen from the type host, but of the genera known from the Ardeidæ Piaget's figure resembles only *Ciconiphilus*. *Colpocephalum obscurum* Giebel, 1874, from the same host, is almost certainly a *Ciconiphilus* and the name must take priority over *sulcatum*. *Colpocephalum laticeps* Kellogg, 1896, also from the same host, is a *Ciconiphilus*, presumably identical with *obscurum*; and *C. veratrum* Kellogg, 1910, from *Cosmerodius albus melanorhynchus* (Wagler), also a *Ciconiphilus*, may prove to be conspecific with specimens from *C. albus egretta*.

Present status: *Ciconiphilus obscurus* (Giebel).

MENOPON TARSATUM Piaget.

(1880, p. 472, pl. xlii. fig. 4.)

Type host: *Cryptonyx coronatus* = *Rollulus roulroul* (Scopoli).

B.M.: 7 ♂♂, 2 ♀♀ *Menacanthus*, slides nos. 377-9, from type host.

Menacanthus okadai (Uchida), 1926, from the same host is almost certainly the same as *tarsatum*, and should be considered as synonym of this latter name.

Present status: *Menacanthus tarsatus* (Piaget).

Lectotype of *Menopon tarsatum* Piaget: ♂ in the B.M., slide no. 377.

MENOPON TEMPORALE Piaget.

(1880, p. 487, pl. xxxix. fig. 6.)

Type host: *Leptoptilus argala* = *Leptoptilos dubius* (Gmelin).

B.M.: 4 ♂♂, 4 ♀♀, 3 nymphs *Ciconiphilus*, slides nos. 865-9, from type host.

Leiden: 1 ♂, 1 ♀ *Ciconiphilus*, slide no. 295, from type host.

The host name given by Piaget, *Leptoptilus argala* has been used for both *L. dubius* (Gmelin) and *L. crumeniferus* (Lesson); however, specimens of *Ciconiphilus* from the two hosts are easily distinguished by the characters of the male genitalia, and there is no doubt that Piaget's specimens came from *L. dubius*. The type material of *Colpocephalum eurygaster* Piaget, allegedly from *Leptoptilus argala*, is *Bucerophagus*, and presumably originated from one of the Bucerotidæ.

Present status: *Ciconiphilus temporale* (Piaget).

Lectotype of *Menopon temporale* Piaget: ♂ in the B.M., slide no. 865.

MENOPON TIBIALE Piaget.

(1885, p. 100, pl. xi. fig. 1.)

Type host: *Cyanopolius cooki* = *Cyanopica cyanus cooki* Bonaparte.

B.M.: 5 ♀♀ *Menacanthus*, slides nos. 870-1, from type host.

Present status: *Menacanthus tibialis* (Piaget).

Lectotype of *Menopon tiabiale* Piaget: ♀ in the B.M., slide no. 871.

MENOPON TITAN Piaget.

(1880, p. 503, pl. xl. fig. 7.)

Type host: *Pelecanus onocrotalus* Linn.

B.M.: 1 ♂, 1 ♀ *Piagetiella*, slide no. 439, from type host.

Leiden: 1 ♂ *Piagetiella*, slide no. 307 *, from type host.

Present status: *Piagetiella titan* (Piaget).

Lectotype of *Menopon titan* Piaget: ♂ in the B.M., slide no. 439.

MENOPON TRANSLUCIDUM Piaget.

(1885, p. 150, pl. xvi. fig. 4.)

Type host: *Amblyrhamphus holosericeus* (Scopoli).

B.M.: 4 ♂♂, 8 ♀♀ *Menacanthus*, slides nos. 874-7, from type host.

Present status: *Menacanthus translucidus* (Piaget).

Lectotype of *Menopon translucidum* Piaget: ♂ in the B.M., slide no. 875.

MENOPON TRIDENS Burmeister, 1838 (*sensu* Piaget).

(1880, p. 479, pl. xxxix. fig. 1.)

Type host: *Fulica [a.] atra* Linn.

Piaget's host: *Gallinula [c.] chloropus* (Linn.).

B.M.: 1 ♂, 6 ♀♀, 10 nymphs *Pseudomenopon*, slides nos. 878-80, from *Gallinula chloropus*.

Leiden: 3 ♀♀, 1 nymph *Pseudomenopon*, slide no. 230, from *Gallinula chloropus*.

Piaget was obviously confused about the type host of *tridens*, as he redescribed this species from specimens

from *Gallinula chloropus* and described specimens from *Fulica atra*, the true type host of *tridens*, as a new variety (see above under *major* 1880, p. 480). Although the species from *Gallinula chloropus* has no name, a new name will not be given to Piaget's description because this is inadequate for recognition and because a revision of the whole genus may show that there is a name available for this species.

MENOPON TRINOTON Piaget.

(1880, p. 431, pl. xxxiii. fig. 10.)

Type host: *Corvus validissimus* = *Corvus validus* Bonaparte.

B.M. : 4 ♂♂, 4 ♀♀ *Myrsidea*, slides nos. 406-8, from type host.

Leiden : 1 ♂, 2 ♀♀ *Myrsidea*, slide no. 267, from type host.

Present status: *Myrsidea trinota* (Piaget).

Lectotype of *Menopon trinoton* Piaget: ♀ in the B.M., slide no. 408 b.

MENOPON TRISERIATUM Piaget.

(1880, p. 460, pl. xxxvii. fig. 3.)

Type host: *Gallus [gallus] bankiva* Temminck.

B.M. : 1 ♂, 3 ♀♀ *Amyrsidea*, slide no. 220, from type host, Java.

Present status: *Amyrsidea triseriata* Piaget.

Lectotype of *Menopon triseriatum* Piaget: ♂ in the B.M., slide no. 220 a.

MENOPON TRITHORAX Piaget.

(1885, p. 97, pl. x. fig. 8.)

Type host: *Corvus macrorhynchus* Wagler.

B.M. : 3 nymphs *Myrsidea*, slide no. 204, from type host.

As at least two species of *Myrsidea* may be found on the Corvidæ it is not possible to say, without a study of nymphal stages, whether *Myrsidea shirakii* Uchida, 1920, from *Corvus macrorhynchus levaillanti* from Formosa (probably *Corvus macrorhynchus colonorum* Swinhow) is a synonym of Piaget's species.

Present status: *Myrsidea trithorax* (Piaget).

MENOPON TUMIDUM Piaget.
(1885, p. 151, pl. xvi. fig. 5.)

Type host : *Plectropterus gambensis* (Linn.).

B.M. : 2 ♂♂, 1 ♀ *Holomenopon*, slide no. 891, from type host.

Menopon africanum Kell. and Paine from the same host is represented in the B.M. collection by three specimens labelled as types, one of these is a nymphal *Menacanthus* and the other two, female *Holomenopon*. These latter specimens differ from Piaget's female in the characters of the dorsal chaetotaxy. Apart from these, only five other female *Holomenopon*, allegedly from the type host, have been seen; of these, three resemble *africanum* and two *tumidum*. Further material is necessary to decide whether there are two closely related species of *Holomenopon* on this type host, or whether some of the specimens examined are stragglers. *H. africanum* is, anyhow, not a synonym of *H. tumidum*.

Present status : *Holomenopon tumidum* (Piaget).

MENOPON UNICOLOR Piaget.
(1880, p. 471, pl. xxxviii. fig. 5.)

Type host : *Perdix javanica* = *Arborophila javanica* (Gmelin) and *Perdix* sp. ? from Celebes.

B.M. : 2 ♂♂, 1 ♀ *Menacanthus*, slide no. 206, from *Perdix javanica*.

Leiden : 2 ♂♂, 1 ♀ *Menacanthus*, slide no. 287 *, from *Perdix javanica*.

As there is no specimen now in the collections from the second-mentioned host and as this, anyhow, is unidentifiable, one of the specimens on slide no. 206 will be designated as lectotype, thus fixing the type host as *Arborophila javanica*.

Present status : *Menacanthus unicolor* (Piaget).

Lectotype of *Menopon unicolor* Piaget : ♂ in the B.M., slide no. 206 a.

MENOPON UNISERIATUM Piaget.
(1880, p. 464, pl. xxxvii. fig. 4.)

Type host : *Phasianus praelatus* = *Diardigallus diardi* (Bonaparte).

B.M. : 3 ♂♂, 3 ♀♀ *Amyrsidea*, slides nos. 214-5, from type host.

Present status : *Amyrsidea uniseriata* (Piaget).

Lectotype of *Menopon uniseriatum* Piaget : ♂ in the B.M., slide no. 215 a.

MENOPON ZONATUM Piaget.

(1885, p. 152, pl. xvi. fig. 6.)

Type host : *Sacrorhamphus gryphus* = *Vultur gryphus* Linn.

B.M. : 3 ♂♂, 6 ♀♀ *Cuculiphilus*, slides nos. 892-4, from type host.

Menopon gryphus Giebel, 1874, from the same host does not seem to be a *Cuculiphilus*, nor is it possible to apply the description to any of the *Amblyceran* parasites of the hawks. As the type is lost the name will probably have to be discarded as unrecognizable.

Present status : *Cuculiphilus zonatus* (Piaget).

Lectotype of *Menopon zonatum* Piaget : ♂ in the B.M., slide no. 894.

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