

1.

Mallophaga from Gallinaceous Birds.

By

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The present paper is the result of an examination of a rather large material of Mallophaga from gallinaceous birds found in the Zoological Museum of Copenhagen. Species already fully described are only dealt with in order to catalogue the material. Descriptions and figures are not given except in case of doubt or in order to supplement previous statements. As regards the nomenclature, I have followed Kéler (1939) for the *Goniodidae* and Clay (1938) for the *Lipeuridae*. Since no monographs exist of the remaining groups in question, I have followed the principle to use the names most commonly employed. The names of genera are those used by Harrison (1916), the only exceptions being *Columbicola* and *Menacanthus*. My list of synonyms does not claim to be complete, I have only endeavoured to give the names most commonly used in earlier records and to refer to works giving the best descriptions and in some cases also figures.

If not otherwise stated, the material from pheasants and partridges has been collected by Holger Madsen, mag. sc. The remaining specimens seem to be of a rather casual origin; where possible, I have given the name of the collector in parentheses.

Lastly, my best thanks are due to S. L. Tuxen, mag. sc., for his readiness in placing the material at my disposal and for much good advice.

Goniodidae.

1. *Goniodes pavonis* (L.).

Pollino del pavone, Pollino del pavone bianco Redi 1668, *Pediculus pavoni* Linné 1758, *Nirmus tetragonocephalus* Olfers 1815, *Goniodes falcicornis* Nitzsch 1818, *Goniodes falcicornis* Boisduval et Lacordaire 1835.

Zool. Gardens 1. 4. 1901: 23 ♂♂ 14 ♀♀, 21 juvv. (leg. Schlick). — Zool. Gard. 7. 7. 1925: ♂, 3 ♀♀. —

Agricultural College: ♂, 2 ♀♀, juv. — All from *Pavo cristatus*.

Distribution: Sweden, England, Holland, France, Germany, Hungary, Italy, U. S. A., India, S. Africa. Hosts: *Pavo cristatus*, *P. muticus*, *P. nigripennis*.

2. *Goniodes spinicornis* Nitzsch.

Goniodes spinicornis Nitzsch 1838, *G. spinicornis* Giebel 1866, *G. bicuspidatus* Piaget 1880.

Zool. Gard. (*Tragopan satyra*) 29. 2. 1912: 6 ♂♂, 10 ♀♀, 22 juvv. — Zool. Gard. (*Trag. temmincki*) 30. 5. 1913: 9 ♂♂, 8 ♀♀, 3 juvv. — Without locality 12. 3. 1918: 12 ♂♂, 6 ♀♀. — Zool. Gard. (*Trag. satyra*) 10. 11. 1932: 10 ♂♂, 11 ♀♀, 3 juvv. — Zool. Gard. (*Trag. sp.*) 10. 11. 1935: ♀.

Distribution: Holland, France, India, Himalaya, China. Hosts: *Tragopan satyra* and *T. temmincki*.

3. *Gonotyles cervinicornis* (Giebel).

Gonotyles sp. Nitzsch 1866, *G. cervinicornis* Giebel 1874.

Zool. Gard. (*Gennaues nycthemerus*) 15. 10. 1937: ♂, ♀. Distribution: Vienna, India, Himalaya, Siam, China, Cochin-China, California. Hosts: *Gennaues nycthemerus*, *Tragopan satyra*, *Lophura diardi*.

4. *Gonocephalus chelicornis* (Nitzsch).

Goniodes chelicornis Nitzsch 1818, 1832, *Goniodes bituberculatus* Rudow 1869.

Without locality: ♀, juv. (leg. Schlick). — Skåne, Sweden, 17. 12. 1934: 2 ♂♂, 7 ♀♀. — Both from *Tetrao urogallus*.

Distribution: Sweden, Finland, England, Holland, Germany, Hungary, Russia, Arctic N. America. Hosts: *Tetrao urogallus*, *T. medius*, *Lagopus lagopus*.

5. *Gonocephalus tetraonis* (L.).

Pediculus tetraonis Linné 1758, *Goniodes tetraonis* Denny 1842 (pars), *Goniodes heteroceros* Nitzsch 1861, *Goniodes homoceros* Giebel 1861.

Denmark: 36 ♂♂, 21 ♀♀, 28 juvv. — Nymindegab

26. 1. 1914: 59 ♂♂, 35 ♀♀, 22 juvv. — Both from *Lyrurus tetrrix*.

Distribution: Sweden, England, Holland, Germany, Russia, Siberia, Canada, Greenland. Hosts: *Lyrurus tetrrix*, *Lagopus lagopus*, *L. scoticus*, *L. mutus*.

6. *Gonocephalus mammillatus* (Rudow) 1870.

Nahiktartorvik, Lower Kazan River (*Lagopus mutus rupestris*) 24. 5. 1922: ♀ (leg. Knud Rasmussen). The find has been published by K. L. Henriksen in Rep. of the Fifth Thule Exp. 1921—24, Insects p. 33). Distribution: N. America. Hosts: *Lagopus lagopus*, *L. mutus rupestris*.

7. *Gonocephalus colchici* (Denny).

Goniodes colchici Denny 1842, *Goniodes colchicus* Giebel 1874. Taarnborg 25. 6. 1937: ♀. — Sandved 8. 7. 1937: ♂, 2 ♀♀. — Gaunø 21. 6. 1937: ♂. — Brahetrolleborg 15. 4. 1937: 2 ♂♂, ♀, 6 juvv. — Brahetrolleborg 24. 6. 1937: 2 ♀♀. — All from *Phasianus colchicus*. — Zool. Gardens (*Euplocamus swinhoii*): ♂, 26 ♀♀. Distribution: England, Germany. Host: *Phasianus colchicus*.

8. *Oulocrepis dissimilis* (Nitzsch).

Goniodes dissimilis Nitzsch 1818, *Goniodes dissimilis* Denny 1842.

Gram 1858: 4 ♂♂, 3 ♀♀, 2 juvv. — Without locality: ♀. — Both from *Gallus domesticus*.

Distribution: Finland, England, Holland, Germany, Hungary, China, Japan, Java, Bahama, U. S. A., Argentina. Host: *Gallus domesticus*.

9. *Solenodes dispar* (Nitzsch).

Goniodes dispar Nitzsch 1818, 1838, *Gonocephalus dispar* Kéler 1937.

Haarlev, Stensved 29. 10. 1936: ♂, 2 ♀♀. — Lundby 14. 7. 1937: 7 ♂♂, 26 ♀♀, 9 juvv. — Broholm, Gudme 6. 8. 1937: ♀. — Bøgden, Faaborg 26. 10. 1936: ♂, ♀. — Brahetrolleborg 29. 10. 1936: ♀, juv. — Brahetrolle-

borg 17. 1. 1937: 5 ♂♂, 7 ♀♀, 3 juvv. — Brahetrolleborg 15. 2. 1937: ♀, 3 juvv. — Venø 4. 2. 1937: 13 ♂♂, 8 ♀♀, 8 juvv. — Fur 27. 10. 1936: 2 ♂♂, ♀. — Jerne, Esbjerg 30. 10. 1936: juv. — Jerne 13. 4. 1937: 2 ♂♂, ♀, juv. — Jerne 27. 4. 1937: 2 ♂♂, ♀, juv. — Sommersted, Haderslev 24. 10. 1936: ♀, 2 juvv. — Broholm-Langholm, Haderslev 28. 7. 1937: ♂. — All from *Perdix perdix*.

Distribution: England, Holland, Germany, Hungary, Russia. Host: *Perdix perdix*.

10. *Solenodes capitatus* Kéler 1940.

Brahetrolleborg 24. 6. 1937: ♀. — Vorsø 27. 2. 1937: ♀, 3 juvv. — Both from *Phasianus colchicus*.

Distribution: Germany. Host: *Phasianus colchicus*.

11. *Stenocrotaphus gigas* (Tasch.).

Goniocotes hologaster Denny 1842, Goniocotes gigas Taschenberg 1879, Goniocotes abdominalis Piaget 1880.

Gram 1858: 32 ♂♂, 29 ♀♀, 18 juvv. — Viborg 23. 1. 1889: 31 ♂♂, 30 ♀♀, 5 juvv. (leg. C. A. Gad). — Viborg 21. 8. 1889: 2 ♂♂, 2 ♀♀. — Ordrup: ♂, ♀. — Agric. College: ♀. — All from *Gallus domesticus*. — The material further includes a tube containing 10 ♂♂, 25 ♀♀, 6 juvv. It is seen from the label that they have been found on a peacock at Viborg. Probably, however, a confusion of labels has taken place.

Distribution: England, Germany, Hungary, Sudan, S. Africa, Japan, U. S. A., Argentina. Host: *Gallus domesticus*.

12. *Margaritenes eurygaster* (Piaget).

Goniodes eurygaster Piaget 1885.

Zool. Gard. 30. 5. 1911: 78 ♂♂, 113 ♀♀, 21 juvv. — Zool. Gard.: 12 ♂♂, 26 ♀♀, 11 juvv. — Both from *Lophophorus impeyanus*.

The species has been described by Piaget, but with-

out detailed figures, and Kéler's note in his monograph is based partly on Piaget's description and partly on three larvae which constituted the only

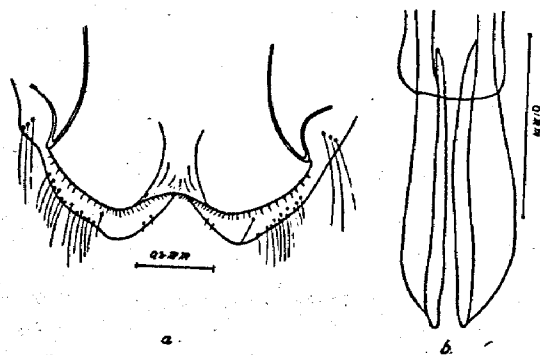


Fig. 1. *Margaritenes eurygaster* (Piaget).
a ventral view of last segments of female abdomen;
b male genitalia.

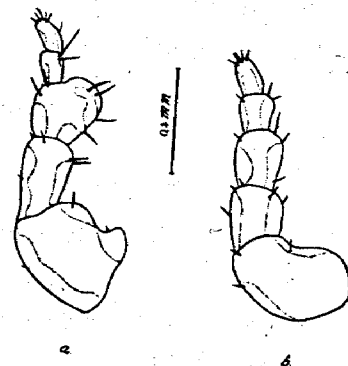


Fig. 2. *Margaritenes eurygaster* (Piaget).
Ventral view of left antenna of male (a)
and female (b).

material accessible to him. To supplement the previous literature, I give figures of male and female genitalia and antennae (figs. 1 and 2). The shape of the genitalia shows that Kéler is quite right in placing the species in a separate genus.

Distribution: Piaget found the species in the Zoological Gardens of Amsterdam. Host: *Lophophorus impeyanus*. Besides, Kellogg and Paine state that they have found it on the same bird in Himalaya; however, they give neither descriptions nor figures.

13. *Goniocotes hologaster* Nitzsch.

Ricinus gallinae de Geer 1778, *Goniodes hologaster* Nitzsch 1818.

Viborg 1889 (*Gallus domesticus*): 2 ♂♂, 11 ♀♀ (C. A. Gad leg.).

Distribution: Sweden, England, Holland, Germany, Polonia, Hungary, Algeria, S. Africa, China, Formosa, Japan, Canada, U. S. A. (It is reported to have made its appearance in America after 1896). Hosts: *Gallus domesticus*, *Numida papillosa*, *N. coronata*, *Pternistes castaneiventris*.

14. *Goniocotes simillimus* Kéler 1937.

Haarlev, Stensved 29. 10. 1936: 3 ♀♀. — Lundby 14. 7. 1937: 11 ♂♂, 11 ♀♀, 13 juvv. — Gaunø 6. 7. 1937: juv. — Brahetrolleborg 29. 10. 1936: 2 ♀♀, juv. — Bøgden, Faaborg 26. 10. 1936: ♀. — Jerne, Esbjerg 13. 4. 1937: ♂, 6 ♀♀, juv. — Jerne 27. 4. 1937: ♀. — Rødding, Haderslev 30. 10. 1936: ♂, ♀, juv. — Sommersted, Haderslev 24. 10. 1936: ♀, juv. — All from *Perdix perdix*.

Distribution: Germany (Berlin). Host: *Perdix perdix*.

15. *Goniocotes chrysocephalus* Giebel.

Goniodes colchici Giebel 1866, *Goniocotes chrysocephalus* Giebel 1874.

Skelskør 25. 6. 1937: ♂, ♀. — Sandved 8. 7. 1937: ♂. — Both from *Phasianus colchicus*.

Distribution: Germany. Host: *Phasianus colchicus*.

16. *Dictyocotes diplogonus* (Nitzsch).

Goniocotes diplogonus Nitzsch 1838, 1866.

Zool. Gard. (*Tragopan satyra*) 29. 2. 1912: ♂, ♀. —

Zool. Gard. (*Trag. temmincki*) 30. 5. 1913: ab. 475 ♂♂, 500 ♀♀, 100 juvv.

Distribution: Holland, France. Host: *Tragopan satyra*. Piaget (1880) mentions the species from *T. temmincki* (Zool. Museum of Leyden). However, Kéler does not regard its identity as established. Its presence on the latter bird in my material would seem to show that Piaget's specimens really belong to *Dictyocotes diplogonus*.

17. *Chelopistes meleagridis* (L.).

Pediculus meleagridis Linné 1758, *Goniodes styliifer* Nitzsch 1818.

Agric. College (*Gallus domesticus*): ♀. — Viborg (*Meleagris gallopavo*) 8. 6. 1889: 9 ♂♂, 17 ♀♀ (C. A. Gad leg.). — Denmark: 13 ♂♂, 16 ♀♀, 8 juvv. (leg. Schlick).

Distribution: Sweden, England, Holland, France, Germany, Hungary, Italy, S. Africa, Japan, Formosa, U. S. A. Host: *Meleagris gallopavo* (besides some stragglers from *Gallus domesticus*).

Phloptoridae.

18. *Phlopterus platyrhynchus* (Nitzsch).

Docophorus platyrhynchus Nitzsch 1861, *Docophorus platyrhynchus* Piaget 1880, *Docoph. platyrhynchus* Mjöberg 1910.

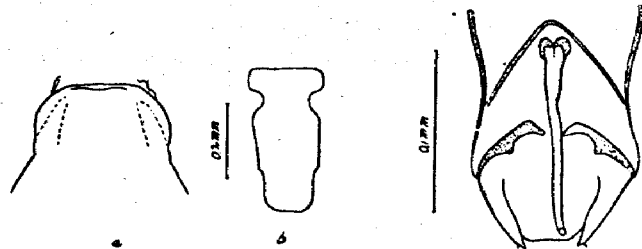


Fig. 3. *Phlopterus platyrhynchus* (Nitzsch). a clypeus, b male genital plate.

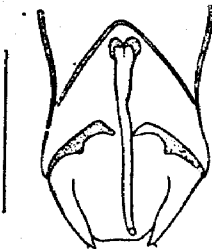


Fig. 4. *Lagopoeus lyrurus* Clay. Male genitalia.

Without locality (*Lagopus lagopus*) (leg. Fischer): ♂. The occurrence on *Lagopus lagopus* must be regarded as occasional, as it is a common species on various Accipitres (*Astur gentilis*, *Milvus milvus*). Formerly *Ph. platyrhynchus* included a few; now separate, species, one of which occurred on *Buteo lagopus*; perhaps the similarity of the names had caused a lapsus on the label: *Lagopus lagopus* instead of *Buteo lagopus*. Mjöberg (1910) gives a figure of the clypeus and the male genital plate of *Philopterus gentilis* Mjög.; my fig. 3 shows the corresponding parts of *Ph. platyrhynchus* (Nitzsch).

Lipeuridae.

19. *Lipeurus caponis* (L.).

Pediculus caponis Linné 1758, *Lipeurus variabilis* Burmeister 1838, *Lipeurus antennatus* Piaget 1885, *Lipeurus variabilis* var. *formosanus* Sugimoto 1929.

Gram 1858: 3 ♀♀. — Viborg 21. 8. 1889: ♂, ♀ (C. A. Gad leg.). — Both from *Gallus domesticus*.

Distribution: England, Burma, Siam, Sikkim, Annam, Ceylon, India, Java. Hosts: *Gallus domesticus*, *Gallus g. gallus*, *G. gallus murghi*, *G. gallus jabouillei*, *G. sonneratii*, *G. varius*, *Euplocamus swinhoii*.

20. *Lipeurus maculosus* Clay 1938.

Sandved 8. 7. 1937: 3 ♂♂, 3 ♀♀. — Taarnborg 25. 6. 1937: ♂. — Gaunø 21. 6. 1937: ♂, 2 ♀♀. — Brahetrolleborg 15. 4. 1937: 4 ♀♀. — All from *Phasianus colchicus*.

Distribution: England, Hungary. Host: *Phasianus colchicus*.

21. *Gallipeurus heterographus heterographus* (Giebel).

Lipeurus heterographus Giebel 1866, *Goniocotes burnetti* Packard 1870, *Goniodes eynsfordii* Theobald 1896, *Lipeurus burnetti* Harrison 1916.

Denmark (*Gallus domesticus*): 44 ♂♂, 51 ♀♀, 6 juvv.

Distribution: England, Rumania, Canada, Mexico.

Host: *Gallus domesticus*.

22. *Gallipeurus heterogrammicus* (Giebel).

Lipeurus heterogrammicus Giebel 1866.

Lundby 14. 7. 1937: ♀, 3 juvv. — Broholm, Gudme 6. 8. 1937: 2 ♀♀, 4 juvv. — Bøgden, Faaborg 22. 10. 1936: ♀. — Brahetrolleborg 17. 1. 1937: 5 ♂♂, 2 ♀♀. — Brahetrolleborg 15. 2. 1937: ♀, juv. — Fur 27. 10. 1936: ♂. — Venø 4. 2. 1937: 6 ♂♂, 4 ♀♀, 12 juvv. — Broholm-Langholm, Haderslev 28. 7. 1937: 3 ♀♀. — All from *Perdix perdix*.

Distribution: England, Hungary. Host: *Perdix perdix*. Compared with Clay's investigations it seems to be far more common in Denmark than in England.

23. *Oxylipeurus himalayensis burmeisteri* (Taschenberg).

Lipeurus burmeisteri Taschenberg 1887, *Lipeurus castaneus* Piaget 1885, *Lipeurus stygius* Giebel 1861.

Zool. Gard. (*Tragopan temmincki*) 30. 5. 1913: ♀. — Zool. Gard. (*Lophophorus impeyanus*): ♂, 10 ♀♀. — Zool. Gard. (*Loph. impeyanus*) 23. 1. 1902: 30 ♂♂, 47 ♀♀, 11 juvv.

Distribution: Nepal, Sikkim, Yunnan, Upper Minho (India), China. Hosts: *Lophophorus impeyanus*, *L. sclateri*, *L. lhuysii*, *Tragopan blythii*, *T. temmincki*, *T. caboti*.

24. *Oxylipeurus longus* (Piaget).

Lipeurus longus Piaget 1880.

Zool. Gardens 10. 11. 1932: ♂, ♀, juv. — Without locality (*Tragopan satyra*): ♂. — Without locality and host: ♂.

Distribution: Sikkim. Hosts: *Tragopan satyra*, *T. temmincki*.

25. *Oxylipeurus mesopelios colchicus* Clay 1938.

Krusesminde, Korsør 21. 4. 1937: ♂, juv. — Taarnborg 25. 6. 1937: ♂, ♀. — Skelskør 25. 6. 1937: ♀, 2 juvv. — Sandved 8. 7. 1937: ♂. — Gaunø 21. 6.

1937: ♂. — Aalholm 23. 6. 1937: 2 ♂♂, 4 juvv. — Brahetrolleborg 15. 4. 1937: ♂, 6 ♀♀. — Haderslev and Fur 4.—25. 2. 1937: ♀, juv. — All from *Phasianus colchicus*.

Distribution: England. Host: *Phasianus colchicus*.

26. *Oxylipeurus polytrapezius polytrapezius* (Burm.).
Lipeurus polytrapezius Burmeister 1838.
 Viborg 1885 (*Meleagris gallopavo*): ♂, 13 ♀♀ (leg. C. A. Gad).
 Distribution: England, Texas. Hosts: *Meleagris gallopavo domesticus*, *M. gallopavo merriami*.
27. *Lagopoecus lyrurus* Clay 1938.
Nirmus cameratus Burmeister 1839, *Lagopoecus cameratus* Waterston 1922.
 Sandved 8. 7. 1937: ♂, 2 ♀♀. — Taarnborg 25. 6. 1937: ♀. — Skelskør 25. 6. 1937: ♂. — Gaunø 21. 6. 1937: ♀. — All from *Phasianus colchicus*. — Broholm-Langholm, Haderslev 28. 7. 1937: ♂, ♀ from *Perdix perdix*.
 Distribution: Norway, Esthonia, Scotland, Germany. Hosts: *Lyrurus t. tetrrix*, *L. tetrrix britannicus*. As will be seen, the species has not been found on either of the two hosts mentioned here. However, a very thorough examination did not reveal any difference from Clay's description except for the male genitalia, where a slight deviation was found (fig. 4, p. 7). The female genitalia as well as the chaetotaxis, length, and indices of both sexes were wholly as stated by Clay for *L. lyrurus*.
28. *Lagopoecus affinis* (Children).
Nirmus affinis Children 1836, *Nirmus cameratus* var. *nigrescens* Evans 1912, *Lagopoecus affinis* Waterston 1922.
 Nahiktartorvik, Lower Kazan River (*Lagopus mutus rupestris*) 24. 5. 1922: ♂, ♀ (leg. Knud Rasmussen).
 Distribution: Arctic N. America, Canada, Scotland, Spitsbergen. Hosts: *Lagopus l. lagopus*, *L.*

- lagopus scoticus*, *L. mutus hyperboreus*, *L. mutus mil-laisi*, *L. mutus rupestris*. The find has been published by K. L. Henriksen in the Rep. of the Fifth Thule Exp. 1921—24, Insects p. 34, where it is recorded as *Lipeurus protervus* Kellogg. This species, however, is rather doubtful, and it is clearly seen from Clay's excellent monograph that the specimens in question belong actually to *L. affinis* (Children). *L. protervus* Kellogg has not been mentioned in the literature since the original description, which gives no details as to the genitalia, etc.
29. *Lagopoecus pallidovittatus* (Grube).
Nirmus pallidovittatus Grube 1851, *Nirmus quadrulatus* Giebel 1866, *Lagopoecus pallidovittatus* Waterston 1922.
 Skåne, Sweden, 17. 12. 1934 (*Tetrao urogallus*): 3 ♂♂, ♀, 2 juvv.
 Distribution: Esthonia, Scotland, the Pyrenees.
 Hosts: *Tetrao u. urogallus*, *T. urogallus aquitanicus*.
30. *Lagopoecus heterotypus* (Mégnin).
Nirmus heterotypus Mégnin 1880, *Goniocotes nirmoides* Kellogg and Paine 1914.
 Zool. Gardens (*Lophophorus impeyanus*) 23. 1. 1902: ♂, 3 ♀♀, juv.
 Distribution: Nepal, Sikkim, Yunnan, Tibet.
 Hosts: *Lophophorus impeyanus*, *L. sclateri*, *L. vhuysii*.
31. *Syrhaptococcus alchatae* (Rudow).
Nirmus alchatae Rudow 1870, *Nirmus alchatae* Piaget 1880.
 Without locality: ♀, 7 juvv. (leg. Fischer). — Viborg 25. 7. 1889: ♂, 2 ♀♀, juv. (leg. C. A. Gad). — Both from *Syrhaptus paradoxus*.
 Distribution: Holland, S. E. Europe. Hosts: *Pterocles alchata*, *Syrhaptus paradoxus*.
32. *Columbicola columbae* (L.).
Pediculus columbae Linné 1758, *Lipeurus baculus* Nitzsch 1832, *Lipeurus baculus* Piaget 1880.
 Haarlev, Stensved (*Perdix perdix*) 29. 10. 1936: ♂,

juv. — Agric. College (*Gallus domesticus*): 2 ♂♂, 5 ♀♀, 3 juvv.

Distribution: Sweden, England, Germany, U. S. A. Hosts: *Columba l. livia*, *C. livia domestica*, *C. oenas*. The species has hitherto only been recorded from various *Columbidae*. A single occurrence on domestic fowl may be explained as occasional, but material present from two different gallinaceous birds from two different localities may, no doubt, be taken to indicate a rather normal occurrence on Galli, too.

Menoponidae.

33. *Menopon pallescens* Nitzsch.

Menopon pallescens Nitzsch 1861, *M. pallescens* Piaget 1880 (pars), *M. pallescens* Kéler 1937.

Without locality: 2 ♂♂ (leg. Schlick). — Haarlev, Stensved 29. 10. 1936: ♂, ♀. — Broholm, Gudme 6. 8. 1937: 5 ♂♂, 6 ♀♀, 19 juvv. — Lundby 14. 7. 1937: 20 ♂♂, 11 ♀♀, 21 juvv. — Gaunø 6. 7. 1937: ♀. — Brahetrolleborg 15. 2. 1937: 6 ♂♂, 4 ♀♀, 13 juvv. — Bøgden, Faaborg 26. 10. 1936: 8 ♂♂, 12 ♀♀. — Fur 27. 10. 1936: 4 ♂♂, ♀, juv. — Dronninglund 9. 1871: 7 ♂♂, 5 ♀♀, 2 juvv. (leg. Løvendal). — Jerne, Esbjerg 30. 10. 1936: 2 ♂♂, juv. — Jerne 13. 4. 1937: 15 ♂♂, 26 ♀♀, 15 juvv. — Jerne 27. 4. 1937: 6 ♂♂, 3 ♀♀, 5 juvv. — Rødding, Haderslev 30. 10. 1936: 2 ♂♂. — Sommersted, Haderslev 24. 10. 1936: 10 ♂♂, 4 ♀♀, juv. — All from *Perdix perdix*.

Distribution: Since *Menopon pallescens* Nitzsch and *M. perdicis* Denny have been regarded as identical — under the name of *M. perdicis* — it is rather difficult to state the exact distribution of the two species; they were not separated until 1937 by Kéler. It seems that in England *M. perdicis* Denny is a

common Mallophage on partridges, while it is rare on the continent, and conversely, *M. pallescens* Nitzsch is rare in England but common in continental Europe, where it has been found in Germany and the Ukraine. Host: *Perdix perdix*.

34. *Menopon pallidum* Nitzsch.

Menopon pallidum Nitzsch 1838, *M. pallidum* Piaget 1880, *M. pallidum* Ancona 1935.

Ordrup: 3 ♂♂, 2 ♀♀. — Viborg 21. 8. 1889: 2 ♂♂, ♀. — Gram 1858: 7 ♂♂, 12 ♀♀. — All from *Gallus domesticus*. — Viborg 1889 (*Pavo cristatus*): 12 ♂♂, 13 ♀♀, 7 juvv.

Distribution: Sweden, Finland, England, Holland, Germany, Italy, U. S. A. Host: *Gallus domesticus*.

35. *Menopon megalosomum* n. sp.

Description of male:

Measurements (in mm.) of 10 specimens:

	Interval	Average
Length of head:	0.33—0.35.	0.34.
Total length:	1.77—2.21.	1.83.
Breadth of head:	0.63—0.65.	0.64.
Breadth of prothorax:	0.46—0.50.	0.48.
Breadth of metathorax:	0.52—0.55.	0.54.

Dorsal chaetotaxis as seen in fig. 5. Ventral chaetotaxis as in most other *Menopon* species: In the medial part of each abdominal segment a group of longer hairs is directed backward, while another group of shorter hairs, directed outward and backward, is situated laterally on each segment. Two parallel rows consisting of 4—6 long hairs are situated paramedially on the hind part of the ventral surface of the head, reaching the mouth parts in front. The shape of the antennae is seen in fig. 6a. Lateral edges of the abdominal segments rather protruding. Genitalia very characteristic, differing from those of all other species of *Menopon* described

from gallinaceous birds (fig. 6 c). Colour (alcohol specimens!) brownish; ocular and occipital notches,

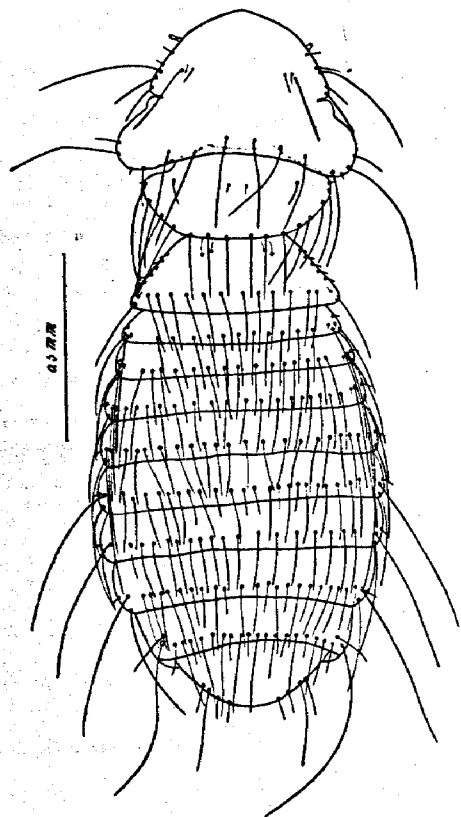


Fig. 5. *Menopon megalosomum* n. sp.
Dorsal view of male.

transverse and longitudinal bars of prothorax, lateral edges of thorax and abdominal segments, and a broad transverse band across each abdominal segment (dorsal and ventral) darker brown.

Female:

Measurements of 10 specimens:

	Interval	Average
Length of head:	0.33—0.38.	0.35.
Total length:	2.07—2.35.	2.19.
Breadth of head:	0.64—0.71.	0.68.
Breadth of prothorax:	0.50—0.55.	0.54.
Breadth of metathorax:	0.60—0.64.	0.63.

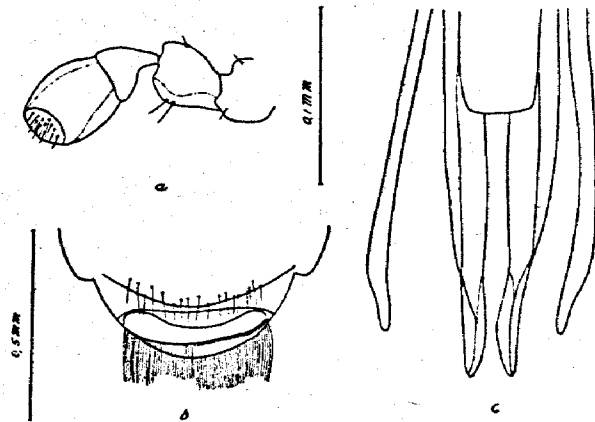


Fig. 6. *Menopon megalosomum* n. sp.

a ventral view of male antenna; b ventral view of last segments of female abdomen (on the left side the hairs of the last abdominal segment, on the right side those of the subgenital plate have been omitted!); c apex of male genitalia.

General chaetotaxis, shape of antenna, and general colour entirely as in the male. Chaetotaxis of subgenital plate and of last abdominal segment shown in fig. 6 b. The base of the subgenital plate with a forwardly concave brown line.

Gaunø 6. 7. 1937: ♀, juv. — Jerne, Esbjerg 13. 4. 1937: ♀. — Sommersted, Haderslev 24. 10. 1936: 3 ♂♂, 6 ♀♀, 1 juv. — All from *Perdix perdix*. — Sofieholm, Uggerløse 1. 12. 1936: ♂. — Skelskør 25. 6. 1937: ♂, 16 juvv. — Skelskør 25. 6. 1937: 3 ♂♂, 7 ♀♀, 6 juvv. — Gaunø 21. 6. 1937: 5 ♂♂,

7 ♀♀, 21 juvv. — Gaunø 21. 8. 1937: ♂, ♀, 2 juvv. — Aalholm 11. 3. 1937: 6 juvv. — Aalholm 23. 6. 1937: 2 ♂♂, ♀, 2 juvv. — Haderslev and Fur 4.— 25. 2. 1937: juv. — All from *Phasianus colchicus*. The species seems to be closely related to *Menopon monostoechum* Kellogg (from *Gennaesus nycthemerus*), differing only in being smaller and differently coloured; however, Kellogg gives no description of the male genitalia, which present the best distinguishing characters. Perhaps Sugimoto (1930) has added to Kellogg's description of *M. monostoechum*, but unfortunately the "Dobuts. Zasshi" is not accessible in Copenhagen.

36. *Menacanthus pallidulum* Neumann 1912.

Viborg (*Gallus domesticus*) 21. 8. 1889: 2 ♂♂, 10 ♀♀, 4 juvv.

Distribution: France, Formosa. Host: *Gallus domesticus*.

37. *Menacanthus stramineus* (Nitzsch).

Menopon stramineum Nitzsch 1874. *Menopon biseriatum* Piaget 1880.

Without locality (*Gallus domesticus*): 2 ♀♀, 6 juvv.

Distribution: Holland, Germany, Russia, Japan, U. S. A. Hosts: *Gallus domesticus*, *Phasianus colchicus*, *Meleagris gallopavo*, *Pavo cristatus*, *Numida sp.*

List of References.

(Containing only the papers referred to in the text. For a complete bibliography see Kéler: Übersicht über die gesamte Literatur der Mallophagen. Zeitschrift für angewandte Entomologie Bd. 25, 1939, p. 485).

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Dansk Oversigt.

De foregaaende Sider er Resultatet af en Gennemgang af Zoologisk Museums Materiale af Mallophager fra Hønsfugle.

Fra 15 Værter foreligger 37 Arter, deraf har een, *Menopon megalosomum* n. sp., ikke kunnet henføres til nogen hidtil beskrevet Art. Artsdiagnoserne for *Margaritenes eurygaster* (Piag.), *Phlopterus platyrhynchus* (Nitzsch) og *Lagopoecus lyrurus* Clay er blevet supplerede. Saavidt det har været mig muligt, er der for hver Art givet en fuldstændig Liste over Udbredelse og Værter, paa begge Punkter har Gennemgangen bragt en Del nye Oplysninger. De vigtigste Synonymer er angivet for hver Art.