

DESCRIPTIONS OF NEW MALLOPHAGA, II.

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4. *Physostomum merulae* nov. sp. (Fig. 1, D.)

Female: Body, length 4.7 mm., width 1.3 mm.; light fulvous, of rather uniform color except abdomen, which has the lateral bands distinctly marked: of large size and evenly rounded outline.

Head, length .75 mm., width .75 mm.; front broad and evenly rounded, margins diverging somewhat and slightly swelling, ocular notch medium, fleck distinct, notch with one small hair; temple extended posteriorly, slightly obtuse, three large bristles along margin evenly spaced, anterior two with one small hair between; occipital margin deeply re-entering; labral lobes large; antennal fossae well-marked by brown bands on lateral borders, interior band much broader; palpi extending beyond margins; anterior submargin with four long, and numerous short hairs.

Thorax, length 1.20 mm., width 1.04 mm.; prothorax broader than long, a little narrower than head, anterior convex, posterior concave, margins nearly straight except at anterior, which has a rounded notch; the anterior angle has two small hairs and a bristle; the rounded posterior angle has one bristle; marginal extensions of even width and clear.

Metathorax larger than prothorax, rounded in front and widely diverging to rear, posterior margin slightly concave; two small bristles at posterior angle; lateral margins with wide light-brown band; lighter and narrower bands diverging from posterior of prothorax to posterior two-thirds of metathorax and uniting with marginal bands; legs same color as head and thorax, of medium size.

Abdomen rounded oblong, first seven segments of nearly equal length; the transverse sutures straight; first four segments have a hair and a long bristle at angles, the next have two bristles and the eighth two long bristles on posterior border with a fringe of fine short hairs between; lateral line terminating abruptly on median border, but continued to lateral borders by a lighter shade, no lateral line on last segment.

Description from specimen in Professor Osborn's collection, taken from *Merula migratoria propinqua* at Ft. Collins, Col., by C. F. Baker.

This species bears a close resemblance to *P. mystax* Nitzsch, but is distinguished by larger palettes and the shallower and more anteriorly placed notch of the prothoracic extensions.

5. *Physostomum cherriei* sp. nov.

Female (Fig. 1, E.). Length 3.4 mm., width .9 mm.; except the pitchy brown sub-marginal lateral bands on abdomen and similarly colored blotches on head and thorax, it is of very uniform pale-brown.

Head, length .78 mm., width .62 mm.; evenly rounded in front and rather broad, widening toward posterior, the lateral margins nearly straight; ocular notch small with three small hairs, fleck wanting; temple clear, with two small hairs and two large bristles alternating, posterior angle just perceptibly out-turned; occipital margin broadly concave with narrow sub-marginal band; palettes of medium size, light-brown backward-curved band behind; two curved, brown blotches between antennal fossae and labral lobes; antennal fossae with narrow dark-brown curving line near minor border; palpi not extending beyond margin of head; clypeal suture marked by pale band.

Thorax, length .88 mm., width .73 mm.; prothorax broader than long and narrower than head; anterior and posterior margins concave, lateral and posterior angles rounded, the former with a short and a medium length bristle, the latter with one long bristle; a short thick bristle nearly opposite temporal angle; dark-brown bands extend from anterior to posterior part, being marginal half the distance back, the rest of the way submarginal; a narrower and paler band on each side of the median line extends nearly full length of prothorax with slight outward curve; narrow dark bands in posterior half extend obliquely backward toward median line; marginal extensions pale brown.

Metathorax longer and wider than prothorax, anterior part covered by it; width a little less than length; anterior margin rounded then incurved at middle of lateral margin, which then diverges to posterior angle; posterior angle with one short and one long bristle; anterior rounded margin with three small bristles; dark-brown marginal bands extend along anterior border halfway back then curve in, cross the straight sub-marginal bands running whole length of metathorax, and then curve forward to a point two-thirds from posterior margin. Legs of pale-golden color.

Abdomen, with sides only slightly swelling widest at middle, last segment evenly rounded, with border of genital opening slightly extending; segments of nearly equal length and transverse sutures straight except last three which are posteriorly convex; posterior angles have long bristles, last segment with two shorter bristles on each side half way from median line, genital extension with fringe of fine hairs; lateral line dark-brown with band of lighter brown extending to margin of body

and broken obliquely at sutures, band in last segment half the length of the segment; central part of segments clear light-brown.

Male (Fig. 1, F.). Length 3.07 mm., width .81 mm. General form very close to that of female, markings of head, thorax, and body a little darker, lateral bands not extending into eighth segment.

Described from seven specimens in Professor Herbert Osborn's collection, taken by George H. Cherrie from *Melozone cabanisi* and *Melozone leucotis*, four females from the former and two males and one female from the latter.

This species shows considerable resemblance to *P. subangulatum* Carriker and to *P. subhastatum* sp. nov. in general form but differences in size and in arrangement and form of markings and various details of shape seem to require the establishment of a new species.

This work was carried out in the Zoological Laboratory of Ohio State University under the direction of Professor Herbert Osborn, to whom the writer is greatly indebted for valuable assistance.

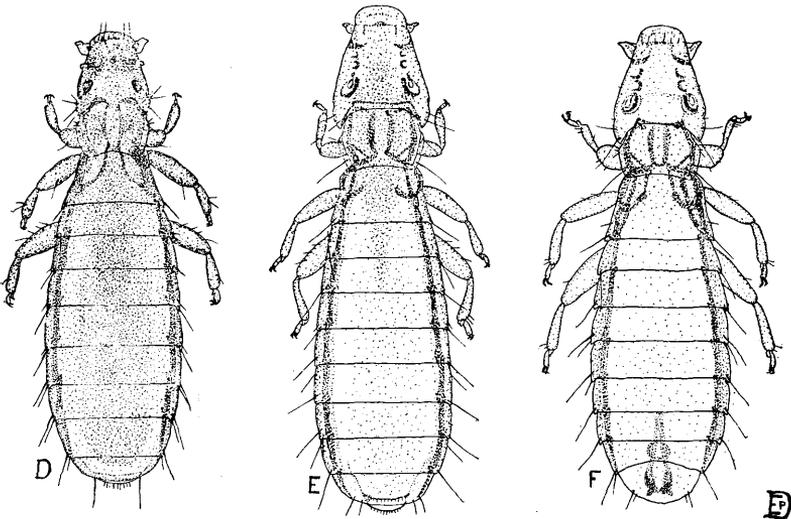


Fig. 1. D. *Physostomum merulae*, from *Merula migratoria propinqua*. x 15. E. *Physostomum cherriei*, from *Melozone* sp. x 20. F. *Physostomum cherriei*, male, from *Melozone* sp. x 24.