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A NEW SPECIES OF SURICATOECUS (MALLOPHAGA: TRICHODECTIDAE) FROM THE WESTERN CUSIMANSE, CROSSARCHUS OBSCURUS (CARNIVORA: VIVERRIDAE)

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ABSTRACT

The new species, *Suricatoecus occidentalis*, is described and illustrated from specimens taken off *Crossarchus obscurus* F. Cuvier (Carnivora: Viverridae) from the Ivory Coast and Nigeria. A key to the species in the *Suricatoecus helogale* group is provided.

Werneck (1948) reviewed the 11 species of Suricatoecus Bedford and subsequently Emerson and Price (1967) described an additional species, S. congoensis. We have recently received a series of African Suricatoecus from the western cusimanse, Crossarchus obscurus F. Cuvier, that differs from these 12 known species, thereby representing a new species. It is our intent to describe and illustrate this new species here.

Suricatoecus occidentalis Emerson and Price, NEW SPECIES

Type-host: Crossarchus obscurus F. Cuvier.

DESCRIPTION: Male external morphology and chaetotaxy as shown in Fig. 1. Preantennal head margin triangular with small median indentation. Basal antennal segment enlarged. Head width 0.46 mm, length 0.38-0.40 mm. Abdominal segments II-VIII each with single median tergal plate, III-VIII each with single median sternal plate; tergal plates with lateral margins elongated, tapered; tergal plate on II with heavier long seta at each corner. Genitalia symmetrical, parameres of equal length, and sac with numerous small serrations and 4 prominent large spines as shown in Fig. 4. Terminal abdominal segments elongated and sharply pointed as in Fig. 3. Total length, 1.41-1.50 mm.

Female external morphology and chaetotaxy as shown in Fig. 2. Preantennal head margin triangular with small median indentation. Head width 0.47-0.49 mm, length 0.38-0.41 mm. Antenna filiform. Abdominal segments II-VIII each with single median tergal plate, III-VI each with single median sternal plate. Lateral margins of abdominal tergal and sternal plates elongated, tapered. Posterior margin of vulva broadly rounded with median inverted V indentation as shown in Fig. 5. Gonopods without internal lobes. Total length, 1.34-1.43 mm.

TYPE-MATERIAL: Holotype &, allotype Q, 5 paratypes collected off Crossarchus obscurus (LWR-1542), 24-VII-1969, Yabrasso, Ivory Coast, by L. W. Robbins; 2 paratypes collected off C. obscurus (HH-2108), 10-III-1965, Calabar, Eastern Region, Nigeria, by H. J. Herbert. The holotype and allotype will be deposited in the U. S. National Museum, with paratypes there and in other major collections.

Suricatoecus occidentalis belongs in the helogale species group, which includes the 4 species in which the gonopods of the \circ have no internal lobes and the \circ has a combination of sexually dimorphic antennae and elongated genitalic parameres.

Key to Species of the Suricatoecus helogale Group

ale
osterior abdomen sharply attenuated (Fig. 3) occidentalis n. sp. osterior abdomen bluntly rounded
o abdominal segments with more than 1 tergal plate
t least 1 abdominal segment with 2 tergal plates 4
enitalic parameres symmetrical; medioanterior head margin the shallow indentation helogaloidis Werneck, 1948
enitalic parameres asymmetrical; medioanterior head margin enly rounded congoensis Emerson and Price, 1967
alval margin anterior to gonopods, evenly rounded, with edian inverted V indentation (Fig. 5)
ulval margin produced between gonopods, with fine irregular arp projections and median inverted U indentation 6
nly abdominal segments VII-VIII each with tergal plate
el te

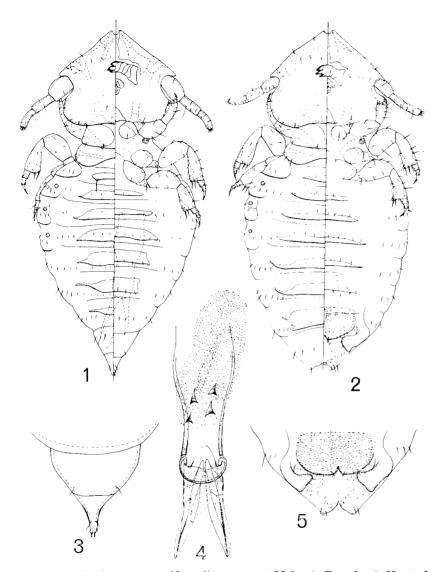


Fig. 1-5, Suricatoecus occidentalis, n. sp.: 1. Male; 2. Female; 3. Ventral terminalia of male; 4. Male genitalia; 5. Ventral terminalia of female.

 may be conspecific. The species of Mallophaga on each of these hosts are quite different; our experience to date on host-parasite relationships causes us to conclude that the 2 hosts are not likely to be conspecific.

LITERATURE CITED

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