Redescription of *Microzetes auxiliaris appalachicola* Jacot (Acari: Cryptostigmata, Microzetidae)

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REDESCRIPTION OF
MICROZETES AUXILIARIS APPALACHICOLA JACOT
(ACARI: CRYPTOSTIGMATA, MICROZETIDAE)1

Harold G. Higgins2 and Tyler A. Woolley3

ABSTRACT

In the original work on this race, Jacot (1938) neither figured nor adequately separated this form from the species auxiliaris. The race is figured and a short diagnostic description made for clarification.—H.G.H.

Jacot, in 1938, described Microzetes auxiliaris appalachicola from specimens taken from mossy interspaces of Andropogon sod, old field, Case Place, Bent Creek Exp. Forest, North Carolina on 6 February 1935. These specimens were placed on his slide 34F24-3. At the time Jacot made his description, he wrote only four lines and made no drawing of this new taxon. Since that time several writers including Balogh (1962b) and Higgins (1965) have commented upon the problem that was associated with the identification of this species. Recently in an attempt to identify a small collection of Microzetes from the Southern States, an effort was made to compare them with the species described by Jacot. A single cotype, taken from the original slide and labeled Microzetes appalachicola, became available for study. This specimen, unfortunately, has a dark spot in the area of the lamellar hair and appears to be mounted in balsam making easy remounting impossible. Nevertheless, this specimen appears to be similar in other respects to our specimens from Mississippi and Louisiana. A short diagnostic description with figures follows.

Microzetes auxiliaris appalachicola Jacot

Similar to Microzetes auxiliaris Grandjean, but differing in the following aspects: Lamellae long, reaching to tip of rostrum; inner edge of lamellar cusp longer than lateral edge; apex of cusps without incision; lamellar hairs long, extending beyond tip of cusps with long cilia as shown in Fig. 2; interlamellar hairs long, rising on lamellae and tapered abruptly near the tip (Fig. 3); lamellar apophysis on inner margin of lamellae long, decurved, with a single dorsal projection.

Ventral surface and setae similar to M. auxiliaris. Length. 174\(\mu\) x 126\(\mu\).

SPECIMENS EXAMINED

LOUISIANA: Four specimens from Gonzales, Ascension Parish, 16 October 1953 by H. S. Dybas.

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Fig. 1. Dorsal view of *Microzetes auxiliaris appalachicola* Jacot.
Fig. 1A. Tip of lamellae showing lamellar hair.
Fig. 1B. Tip of interlamellar hair.

**Mississippi:** Thirteen specimens from Tunica, Mississippi. 9 July 1939 by N. Park.

**References**


