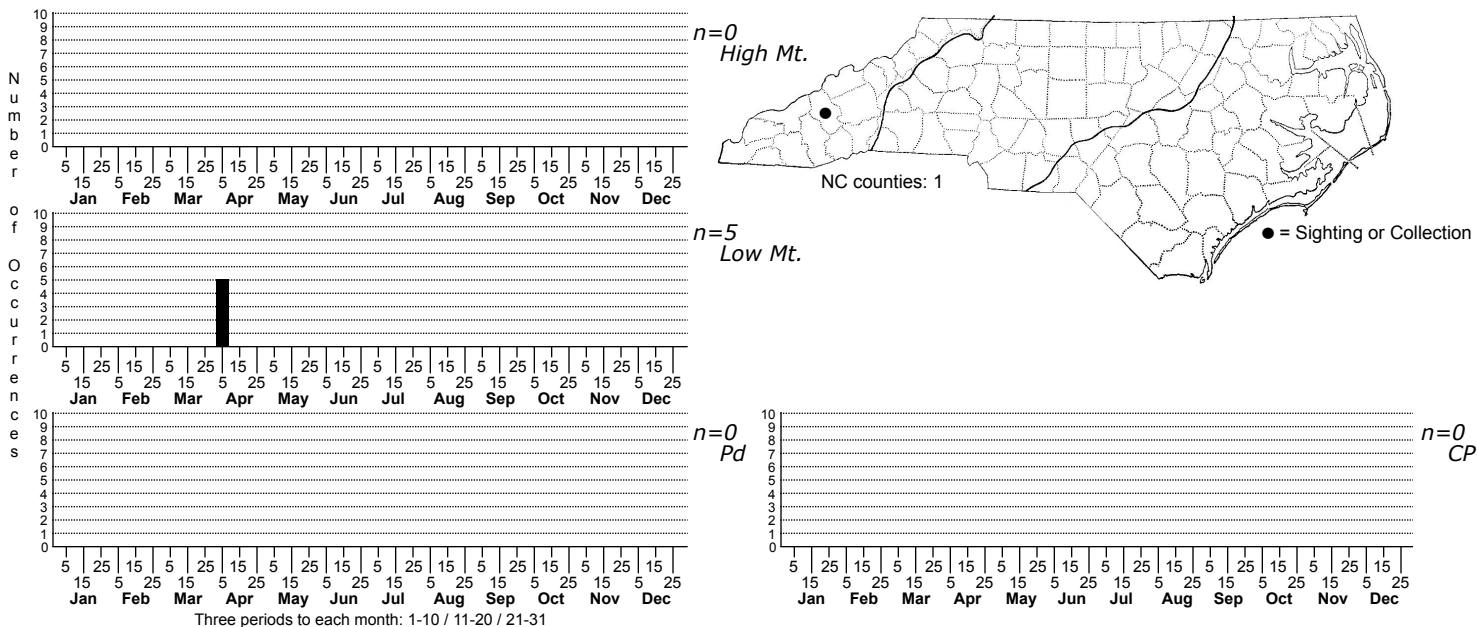


Doryphoribius longistipes



FAMILY: Doryphoribiidae

TAXONOMIC COMMENTS: This is a new species discovered in Bartels' Smokies inventory, described in Bartels et al. 2008.

SPECIES COMMENTS: Freshwater. Only reported from GSMNP.

ID COMMENTS: Body length 298.0 μm . Body colour unknown, eyes present. Cuticle smooth. Mouth anteroventral. Bucco-pharyngeal apparatus of the Doryphoribius type: peribuccal lamellae and papulae absent, ventral lamina present. Oral cavity armature absent or not visible in PCM/DIC. Buccal tube 30.2 μm long and 3.5 μm [11.6 pt] (external) wide; 2.8 μm [9.3 pt] (internal) wide. Ventral lamina 18.6 μm [61.6 pt] long. At the end of the buccal tube, triangular pharyngeal apophyses present. Stylet supports inserted on the buccal tube at 22.0 μm [72.8 pt]. Pharyngeal bulb spherical (31.3 μm x 31.3 μm) with three granular macroplacoids [length configuration 1 (shortest)–2 (longer)–3 (longest)]. Microplacoid and septulum absent. First macroplacoid, 2.3 μm [7.6 pt]; second 2.5 μm [8.3 pt]; and third 3.0 μm [9.9 pt] long. Macroplacoid row 10.1 μm [33.4 pt] long. Claws of the Isohypsibius type, similar in size and shape. Primary branches of claws with well-developed accessory points. Lunules and other cuticular thickenings on legs absent. Claw lengths: leg I: external: basal claw 7.1 μm [23.5 pt], primary branch 12.2 μm [40.4 pt], secondary branch 10.6 μm [35.1 pt]; leg IV: posterior (internal): basal claw 7.8 μm [25.8 pt], primary branch 12.3 μm [40.7 pt], secondary branch 10.6 μm [35.1 pt]. Other claws not measurable. Eggs unknown. -Bartels et al. 2008

DISTRIBUTION: Please refer to the dot map.

HABITAT: Freshwater streams in periphyton in NC samples, in TN found in wet limestone cave sediments in Cades Cove.

OBSERVATION METHODS: PC and DIC