

SCIENTIFIC NOTE

NEW STATE RECORD FOR *PSEUDOHOLOSTROPHUS DISCOLOR* (HORN) (COLEOPTERA: TETRATOMIDAE) FROM NORTH CAROLINA, USA

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Pollock (2012) reviewed the North American Eustrophinae (Tetratomidae) and documented the Canadian (province) and US (state) distribution of *Pseudoholostrophus discolor* (Horn). Since that time, Karns (2017) reported *P. discolor* from Ohio, USA. Here, *P. discolor* is reported from North Carolina, USA for the first time, **new state record** (Fig. 1). The specimen is deposited in the Clemson University Arthropod Collection (CUAC), Clemson University, Clemson, South Carolina, USA. Label data were transcribed exactly, with a bullet (•) indicating the beginning of the label, a backslash “\” indicating a line break, and material in square brackets “[]” indicating a database number.

Specimen Examined. NORTH CAROLINA: Yancey Co.: •USA:NC: Yancey Co. \ 36.0374°N, 82.4296°W \ Devils Gap trail \ vii.24.2015, S. Myers \ S. Langton, Sifted litter [CUAC000026637].

Known Distribution of *P. discolor*. CANADA: NB, QC. **UNITED STATES:** IN, MA, MD, NC, NH, OH, PA, RI, TN, VA.

Pseudoholostrophus discolor has a predominantly “northern” distribution—presumably because of the cooler climate—but was known from Tennessee and Virginia, USA, so its discovery in the Appalachian Mountains of North Carolina is not unexpected. There is a remote chance it could exist

as relict populations at high elevation in Georgia or Alabama, USA. North Carolina has a rich history of cataloging its insect fauna (Brimley 1938; Wray 1967), but clearly there is more to discover in the state.

Pseudoholostrophus discolor has probably gone undetected due (in part) to a poor understanding of its natural history and suitable collection methods. Previously, *P. discolor* has been collected using a Malaise trap (Pollock 2008), intercept traps (Karns 2017; Pollock 2008, 2012), and a Lindgren funnel (Karns 2017). This is the first report of a specimen sifted from leaf litter and collected with a Berlese funnel. Hand collected specimens were from “hardwood forest, on or near fleshy polypore fungi on beech log” (Pollock 2008, 2012), in polypore fungus (Pollock 2012), and “headlamping on rotten logs” (Karns 2017). Chantal (1985) collected *P. discolor* in Québec, Canada from polypore fungi growing on trunks of small trees, including red cherry, *Prunus pensylvanica* L. f. (Rosaceae), and maple, *Acer* L. (Sapindaceae). Apparently, *P. discolor* is not attracted to light traps and is only very rarely collected in passive intercept traps or by sifting leaf litter. Active searching of polypore fungi at night (Pollock 2012) may be needed to better understand the distribution and natural history of this species.



Fig. 1. *Pseudoholostrophus discolor* collected from Yancey Co., North Carolina, USA, 24 July 2015 [CUAC0000 26637]. Frontal, dorsal, and lateral habitus.

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