

SHORT  
COMMUNICATIONS

**A New Species of the Genus *Xanthorhoe* (Lepidoptera,  
Geometridae, Larentiinae) from the Urals  
and Western Siberia**

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**Abstract**—A new geometrid-moth species, *Xanthorhoe pseudoannotinata*, is described. It is similar to *X. annotinata* in the coloration and wing pattern, but differs in structure of the costa of the valva, presence of 9 or 10 spines at the base of the aedeagal vesica of the male, large oval and trapezoid-like ostium, and short conic ductus bursae of the female. The holotype is deposited at the Siberian Zoological Museum, Institute of Animal Systematics and Ecology (Novosibirsk, Russia), the paratypes, at the same museum and in the Finnish Museum of Natural History (Helsinki, Finland).

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The genus *Xanthorhoe* Hb. includes a plenty of species similar in the wing pattern, but differing in the structure of genitalia of both sexes. The numerous representatives of the genus can be met nearly everywhere.

The *X. incursata* (Hübner [1813]) group is one of the taxonomically difficult in the genus. The members of the group occur in the subpolar territories of the Holarctic Region and, less frequently, in the alpine zone of Europe and Siberia. Determination of these species is complicated by their very similar wing pattern and similar structure of genitalia. A row of publications (D'yakonov, 1931; Vasilenko, 1995; Choi, 2003; and others) adequately reveals the species composition of the group. The group includes six species from the Palearctic Region, *X. incursata*, *X. annotinata* (Zetterstedt, 1839), *X. sajanaria* (Prout, 1914), *X. derzhavini* (Djakonov, 1931) and *X. uralensis* Choi, 2003, and also *X. ramaria* Swett et Cassino, 1920 from North America. However, some taxonomical problems remain unresolved for the species *X. annotinata*, and an attempt of their solution is made in the present study.

The types of the taxon described in the study are deposited in the collections of the Siberian Zoological Museum (SZMN) and in the Finnish Museum of Natural History, Helsinki (FMNH). For the total view

of this species, see the sites of SZMN: <http://szmn.eco.nsc.ru/index.htm> and <http://szmn.sbras.ru/Russian.htm>.

*Xanthorhoe pseudoannotinata* Vasilenko, sp. n.

**Material.** Holotype: ♂, Tyumen Prov., Oktyabrskii Vill., left bank of Ob River, 21.VI.1965 (Yu.P. Korshunov) [SZMN]. Paratypes: 6 ♂, 3 ♀, same locality, 21, 23, 26.VI.1965 (Yu.P. Korshunov) [SZMN, FMNH]; 4 ♀, Southern Urals, Chelyabinsk Prov., Mt. Iremel, 900–1300 m, 25–26.VI.1996 (K. Nupponen, J.-P. Kaitila et al.) [FMNH, SZMN]; 1 ♀, Urals, (48) (Sandman) [FMNH].

**Description.** Frons slightly convex, grayish beige, with light admixture of brownish scales. Labial palpi short, obtused, slightly widened in middle part, their length 1.5 times eye diameter in male and 1.2 times eye diameter, in female. Antennae pectinate in male, filiform in female. Head, thorax, and abdomen with grayish beige scales and admixture of brownish ones. Background of wings grayish to beige-gray, with light admixture of gray scales. Wing pattern consisting of curved, not contrasting, dark gray lines serrate on veins. Fore wing with basal, median, postmedian, and marginal veins; median, postmedian, and, less frequently, also marginal bands breaking up into 2 or 3 fine parallel lines. In worn specimens, pattern incon-