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World Catalogue of the Family Tanypezidae (Diptera: Schizophora)

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Abstract

Family, genus and species group names in the family Tanypezidae (Diptera: Schizophora) are catalogued, providing references to occurrence in the literature and nomenclature. Full synonymies are provided, including generic combinations for species, type localities, and repositories and sex for name-bearing types. Species distributions by country are provided, noting biogeographic region(s). The Tanypezidae are known from 28 species in two genera (*Tanypeza* Fallén and *Neotanypeza* Hendel).

Key words: Distribution, synonymy, type specimen, type locality, depository, nomenclature

Introduction

The Tanypezidae (Fig. 1) is a small family of acalyptrate Diptera with 28 species in two genera that is almost entirely restricted to the New World. *Tanypeza* Fallén contains two species, the Nearctic *T. picticornis* Knab & Shannon and the Holarctic *T. longimana* Fallén (the type species). *Neotanypeza* Hendel is Neotropical in distribution and contains 26 species, one of which (*N. dominicana* Lonsdale & Apigian) is known from Dominican amber dating from 17–20mya (Lonsdale & Apigian, 2010).

The family Tanypezidae is well-supported as sister to the Strongylophthalmyiidae, but unlike the Tanypezidae, it is mostly Old World in distribution. Species primarily occur in the eastern Palaearctic and Oriental Regions, although two species occur in North America (Barber, 2006).

The Tanypezidae (together with the Strongylophthalmyiidae) was last treated by Lonsdale (2013), who clarified family- and genus-level concepts and relationships, revised the species of *Neotanypeza*, and provided a phylogenetic analysis of the Tanypezidae. The present catalogue is meant to complement this 2013 study, summarizing what is presently known of tanypezid classification and diversity; references to this family in the literature are listed, including all publications containing nomenclatural acts. This work builds on previous species-level catalogues of the Tanypezidae, including those compiled by Steyskal (1967) [Neotropical], Soós (1984) [Palaearctic] and Shewell (1965) [Nearctic], who provided excellent regional treatments.

Tanypezids are infrequently encountered and many species are still known from a small number of exemplars, at least in the Neotropical Region, so it is expected that many new species and occurrences await discovery. There is also much left to accomplish taxonomically because species concepts are often blurred and overlapping, and the biology and larval stages are practically unknown. It is hoped that this catalogue will facilitate future studies.

Material and methods

Biogeographic Regions are abbreviated as follows: NE (Nearctic); NT (Neotropical); PA (Palaearctic). Name-bearing types are abbreviated as follows: HT (holotype); LT (lectotype); ST (syntype).

The following abbreviations are used for those repositories housing the material listed below: AMNH (American Museum of Natural History, New York); BMNH (the Natural History Museum, London); CAS (California Academy of Sciences, San Francisco); CBFC (Colección Boliviana de Fauna, La Paz); CNC (Canadian

Schlinger 1969: 342 [Alberta, manual of western North American flies]; Griffiths 1972: 133 [phylogenetics, male terminalia, illustration of external male genitalia].

picticornis Knab & Shannon. **NE:** United States of America (Maryland, Michigan, New York, Virginia).

Tanypeza picticornis Knab & Shannon 1916: 35. USA. Maryland, near Plummer's Island; Virginia, Great Falls. ST 2♂ USNM [Cat. No. 20189]. Johannsen 1928: 854 [New York]; Hennig 1936: 37 [family treatment]; Steyskal 1965a: 641 [catalogue, America north of Mexico, New York], 1965b: 201 [key]; Lonsdale 2013: 45 [illustration of male abdomen].

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