

Overview and descriptions of fossil non-biting midges in Baltic amber (Diptera: Chironomidae)

[Übersicht und Beschreibungen von fossilen Zuckmücken
des Baltischen Bernsteins (Diptera: Chironomidae)]

by

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Abstract	We describe two new fossil species of the subfamily Tanypodinae: <i>Procladius eocenicus</i> spec. nov. and <i>Coelotanypus antiquus</i> spec. nov., and give a short overview of the 30 fossil chironomid species found in Baltic amber. These belong to 26 genera and to the following 6 subfamilies: Prodiamesinae (1 species), Podonominae (3), Tanypodinae (4), Buchonomyiinae (1), Orthoclaadiinae (17), and Chironominae (4). The chironomid fauna of Baltic amber consists of only two extinct but 24 extant genera, which indicates a close relationship to present-day chironomids. Details of the diagnostic characters and determination of chironomids from Baltic amber are briefly discussed.
Key words	Chironomidae, non-biting midges, Tanypodinae, <i>Coelotanypus</i> , <i>Procladius</i> , fossil insects, Baltic amber
Zusammenfassung	Wir beschreiben zwei neue fossile Arten aus der Unterfamilie Tanypodinae: <i>Procladius eocenicus</i> spec. nov. und <i>Coelotanypus antiquus</i> spec. nov. und geben einen kurzen Überblick über die insgesamt 30 fossilen Chironomiden-Arten aus Baltischem Bernstein. Diese verteilen sich auf 26 Gattungen und auf die folgenden sechs Unterfamilien: Prodiamesinae (1 Art), Podonominae (3), Tanypodinae (4), Buchonomyiinae (1), Orthoclaadiinae (17) und Chironominae (4). 24 von den 26 Gattungen sind rezent und deuten auf enge verwandtschaftliche Beziehungen zur heutigen Chironomiden-Fauna hin. Besonderheiten hinsichtlich der diagnostischen Merkmale und der Determination von Chironomiden des Baltischen Bernsteins werden kurz diskutiert.
Stichwörter	Chironomidae, Zuckmücken, Tanypodinae, <i>Coelotanypus</i> , <i>Procladius</i> , fossile Insekten, Baltischer Bernstein

Introduction

Chironomids belong to the most abundant insects in Baltic amber. They are by far the most frequent aquatic insects in this amber source (HOFFEINS & HOFFEINS 2003, SONTAG 2003, WEITSCHAT & WICHARD 2010). However, the documentation of these fossil insects is very fragmentary. Since the works of MEUNIER (1899, 1904, 1916) who described 77 species of 6 genera, almost 100 years passed by until the study of Baltic amber chironomids was continued (SEREDSZUS & WICHARD 2002, 2007; WICHARD et al. 2009; GILKA 2010). These new papers gave an insight into the composition of the subfamilies and delivered further impressions about the species abundance of this group of fossil insects. In the present study two new fossil species of Tanypodinae are introduced.

Systematics

Subfamily TANYPODINAE THIENEMANN & ZAVŘEL, 1916

Genus *Procladius* SKUSE, 1889

Type species: *Procladius paludicola* SKUSE, 1889.