

***Eogeometer vadens* gen. n., sp. n.,
the first member of Macrolepidoptera
in Eocene Baltic amber
(Lepidoptera, Geometridae)**

Thilo C. FISCHER, Artur MICHALSKI & Axel HAUSMANN

Abstract

Eogeometer vadens gen. n., sp. n., is described and illustrated from a larva in Baltic amber.

Introduction

So far, no reliable report of any member of the Macrolepidoptera (informal group of higher moths and butterflies) existed from Eocene Baltic amber, 44 Mya. In an article in Scientific Reports the authors presented a well-preserved geometrid larva in Baltic amber, supposedly belonging to the subfamily Ennominae, tribe Boarmiini (FISCHER et al. 2019). Since this was published in an exclusively electronic journal, the nomenclatorial availability of the introduced names depends on registration in ZooBank and on the publication of a related short description and diagnosis which is herewith provided.

Results

***Eogeometer* gen. n.**

ZooBank: urn:lsid:zoobank.org:act:3581bdb2-c0cf-444c-b151-24ceefd48302

Etymology: The prefix 'Eo' refers to the Eocene, 'geometer' to the family name.

Diagnosis: The genus *Eogeometer* is established for the below described Eocene geometrid caterpillar supposedly belonging to the tribe Boarmiini. Attribution to any extant geometrid genus would be highly speculative. The amber larva shares the character combination of (supposed) conifer-feeding (see FISCHER et al. 2019) and a conspicuous semicircular anal plate with only a few extant geometrid larvae, which, however, do not show a longitudinal stripe pattern.

***Eogeometer vadens* sp. n.**

ZooBank: urn:lsid:zoobank.org:act:d7cbb96d-9347-491a-94aa-4b4958d9851e

Holotypus: Larva (L1), SNSB-ZSM-LEP amb002; Amber mine of Yantarni, RUS; stratum typicum: "Blaue Erde" (Upper Eocene – Lower Oligocene), coll. Zoologische Staatssammlung München (ZSM).

Etymology: The species name '*vadens*' - "walking" refers to the looping.

Description: Length 5 mm, body elongate, comparatively slender, approximately cylindrical, cuticula smooth, with transversal wrinkles, pattern showing a dark longitudinal stripe. Prolegs well developed at abdominal segments A6 and A10, rudimentary prolegs present at abdominal segment 5. With a semicircular shield-like anal plate on segment A10.

Diagnosis: See diagnosis of genus and discussion in FISCHER et al. (2019).

Zusammenfassung

Eogeometer vadens gen. n., sp. n., wird anhand einer Larve im baltischen Bernstein beschrieben und abgebildet.



Figure 1: Larva (L1) of *Eogeometer vadens* gen. n., sp. n., in Baltic amber, length 5 mm.

References

FISCHER, T. C., MICHALSKI, A. & A. HAUSMANN 2019: Geometrid caterpillar in Eocene Baltic amber. – *Scientific Reports* (2019) **9**:17201; <https://doi.org/10.1038/s41598-019-53734-w>.

Addresses of the authors

Thilo C. FISCHER
SNSB – Zoologische Staatssammlung München
Münchhausenstraße 21,
D-81247 Munich, Germany
(associate private scientist)
thilo.fischer@4gene.de

Artur MICHALSKI
Ul.Mielczarskiego 2/1
51-663 Wrocław Polska / Poland

Axel HAUSMANN
SNSB – Zoologische Staatssammlung München
Münchhausenstraße 21,
D-81247 Munich, Germany
hausmann.a@snsb.de

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Mitteilungen der Münchner Entomologischen Gesellschaft](#)

Jahr/Year: 2020

Band/Volume: [110](#)

Autor(en)/Author(s): Fischer Thilo C., Michalski Artur, Hausmann Axel

Artikel/Article: [Eogeometer vadens gen. n., sp. n., the first member of Macrolepidoptera in Eocene Baltic amber \(Lepidoptera, Geometridae\) 125-126](#)