

**A contribution to the knowledge of *Polytrichophora* CRESSON
(Diptera: Ephydridae) in the Western Palaearctic,
with the description of three new species**

[Ein Beitrag zur Kenntnis von *Polytrichophora* CRESSON
(Diptera: Ephydridae) in der westlichen Paläarktis,
mit der Beschreibung von drei neuen Arten]

by

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Abstract

Three new species of the Ephydrid genus *Polytrichophora* are described: *P. graeca* spec. nov. (Greece), *P. jordanensis* spec. nov. (Jordan), and *P. indistincta* spec. nov. (Germany). A key for the five West Palaearctic *Polytrichophora* species is presented and the male postabdomen of all species is illustrated.

Key words

Ephydridae, *Polytrichophora*, Palaearctic Region, Germany, Greece, Jordan, Liechtenstein, Switzerland, taxonomy, faunistics, new species, key

Zusammenfassung

Drei neue Arten der Ephydridengattung *Polytrichophora* werden beschrieben: *P. graeca* spec. nov. (Griechenland), *P. jordanensis* spec. nov. (Jordanien), and *P. indistincta* spec. nov. (Deutschland). Ein Bestimmungsschlüssel für die fünf westpaläarktischen *Polytrichophora*-Arten wird vorgelegt und das Postabdomen aller Arten wird dargestellt.

Stichwörter

Ephydridae, *Polytrichophora*, paläarktische Region, Deutschland, Griechenland, Jordanien, Liechtenstein, Schweiz, Taxonomie, Faunistik, neue Arten, Bestimmungstabelle

1 Introduction

Polytrichophora CRESSON, 1924 is a well-defined genus of shore flies and was recently described in detail by MATHIS & ZATWARNICKI (2012) and ZATWARNICKI et al. (2016). There are thirty-two valid species worldwide belonging to two subgenera *Polytrichophora* s. str. and *Skłodowskopa* ZATWARNICKI, CIELNIAK & POCHRZAST, 2016 [based on MATHIS & ZATWARNICKI (1995) with additions in EBRAHIM et al. (2007), MATHIS & ZATWARNICKI (2003, 2012), and ZATWARNICKI et al. (2016)]. The genus is known from the Palaearctic Region (3 species), the Nearctic Region (9 species), the Oriental Region (1 species), the Afrotropical Region (7 species), and the Neotropical Region (12 species). BECKER (1896) described the first European species of *Polytrichophora* as *Clasiopa duplosetosa* and DUDA (1942) published *Dislasiopa strandi*, which is treated as a junior synonym of BECKER's species. *Polytrichophora duplosetosa* (BECKER, 1896) is well known from several countries of the Western Palaearctic Region and there are additional records from the Afrotropical Region (MATHIS & ZATWARNICKI 1995). *Polytrichophora mira* EBRAHIM, EL-HAWAGRY, NEGM & EL-MOURSRY, 2007 has only recently been described from Egypt and *Polytrichophora pollinosa* MIYAGI, 1977 is known currently only from Japan. After collecting a small series of *Polytrichophora* from Jordan, I examined structures of the male genitalia and was very surprised to discover that there are several species of *Polytrichophora* – most of them undescribed – occurring in the West Palaearctic Region. In this paper I describe the previously unknown species and add faunistic data.