

Isoptera, Embioptera, Neuroptera, Mecoptera and Diptera types (exclusive of Phoridae) in ZFMK

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Abstract. The total type material of the Embioptera, Isoptera, Neuroptera, Mecoptera and Diptera (exclusive of Phoridae) collections housed in the Zoologisches Forschungsinstitut und Museum Alexander Koenig (ZFMK), as of 1 March 2004, are catalogued. The collection contains 225 holotypes, 76 lectotypes and four neotypes. Forty species are represented by syntypes and 282 by para- and paralectotypes. Reference to the original description of each taxon is provided and sex and number of each type given.

INTRODUCTION

The collections of insects covered in this paper are primarily from Europe, with additional holdings from expeditions to North Africa, Afghanistan and China (e.g., Klapperich collections). Additional information concerning the Diptera collection is briefly described in a report on the German Diptera collections (BÄHRMANN 1999).

Under each Order, this catalogue is arranged alphabetically by species name, using the original combination and spellings. Within Diptera, the entries are divided among families, which are also arranged alphabetically. Each entry is arranged in the following order: species and subspecies names, author, year of publication, page number where species was described, original generic assignment in brackets, and the number, sex and kind of type. The following abbreviations were used in the lists: alc. - alcohol or spirit collection, HT - holotype, LT - lectotype, NT - neotype, PLT - paralectotype, PNT - paraneotype, PT - paratype, ST - syntype. Notes about nomenclature, genitalic dissections, general condition of the types, discussion of some problems encountered in determination of the type status and the present generic combination (wherever possible, if readily available from current printed and on-line catalogues) are included in the Remarks. The complete list of original references follows each major category (Order or family). The species are all pinned and dried, unless otherwise indicated. The validity of each type was checked, wherever possible, against the original description.

REFERENCES

Bährmann (1999): Zur Kenntnis der Dipterensammlungen Deutschlands. Beiträge zur Entomologie **49**(1): 173-209.

MECOPTERA

communis raechlei Lauterbach, 1970: 284 (*Panorpa*) - 2 male, 2 female ST (in alc.)
fukiensis Tjeder, 1950: 286 (*Panorpa*) - male HT; 1 female PT

Remarks: HT and PT (labelled as allotype) missing from collection.

germanica corcyraea Lauterbach, 1972: 122 (*Panorpa*) - female HT

Remarks: Genitalia dissected and missing.

germanica euboica Lauterbach, 1972: 121 (*Panorpa*) - male HT; 1 male, 4 female PT

germanica graeca Lauterbach, 1972: 119 (*Panorpa*) - male HT; 12 male, 13 female PT

germanica riegeri Lauterbach, 1971: 65 (*Panorpa*) - 1-3 PT (in alc.)

Remarks: Type material is missing from collection.

germanica rumelica Lauterbach, 1972: 117 (*Panorpa*) - male HT; 1 female PT

Remarks: Genitalia dissected and missing.

klapperichi Tjeder, 1950: 289 (*Panorpa*) - female HT

Remarks: HT missing from collection.

lacedaemonia Lauterbach, 1972: 124 (*Panorpa*) - male HT; 1 male, 2 female PT

Remarks: HT dissected and missing genitalia.

plitvicensis Lauterbach, 1972: 134 (*Panorpa (Aulops)*) - 2 female PT ?

Remarks: One specimen labelled as HT and other as allotype. However, HT is stated to be male. Uncertain whether both are part of the original type series. Whereabouts of other specimens are unknown.

thrakica Willmann, 1976: 61 (*Panorpa*) - male HT; 1 male, 3 female PT

Remarks: HT dissected.

REFERENCES

LAUTERBACH, K.-E. (1970): Eine neue Rasse von *Panorpa communis* L. aus Piemont, zugleich ein Beitrag zur Kenntnis von *Panorpa vulgaris* Imhoff und Labram (Insecta - Mecoptera). Jahreshefte der Gesellschaft für Naturkunde in Württemberg **125**: 284-290.

LAUTERBACH, K.-E. (1971): Eine neue Unterart von *Panorpa germanica* L. aus Bosnien (Mecoptera, Panorpidae). Entomologische Zeitschrift **81**(7): 65-68

LAUTERBACH, K.-E. (1972): Zur Kenntnis der Skorpionsfliegen des Balkans (Mecoptera, Panorpidae). Deutsche Entomologische Zeitschrift **19**: 109-140.

TJEDER, B. (1950): Mecopteren aus Fokien. Bonner zoologische Beiträge **1**(2-4): 286-290.

WILLMANN, R. (1976): Eine neue europäische *Panorpa* (Mecoptera, Panorpidae). Entomologische Zeitschrift **86**(6): 60-64.