

Balkanian species of the genus *Isoperla* Banks, 1906 (Plecoptera: Perlodidae)

DÁVID MURÁNYI

Department of Zoology, Hungarian Natural History Museum, Baross u. 13, H-1088 Budapest, Hungary
E-mail: muranyi@zool.nhmus.hu

Table of contents

Abstract	1
Introduction	1
Material and methods	2
Penial structure of the West Palaearctic <i>Isoperla</i> species	2
Species groups of the West Palaearctic <i>Isoperla</i>	3
Taxonomy	4
<i>Isoperla oxylepis oxylepis</i> (Despax, 1936)	4
<i>Isoperla oxylepis balcanica</i> Raušer, 1962	8
<i>Isoperla bosnica</i> Aubert, 1964 stat. rev.	10
<i>Isoperla citrina</i> sp. n.	12
<i>Isoperla albanica</i> Aubert, 1964	16
<i>Isoperla vevcianensis</i> Ikonomov, 1980	21
<i>Isoperla tripartita tripartita</i> Illies, 1954	23
<i>Isoperla obliqua</i> Zwick, 1978 stat. n.	32
<i>Isoperla pesici</i> sp. n.	33
<i>Isoperla autumnalis</i> sp. n.	20
Annotated checklist of the Balkanian <i>Isoperla</i> species	40
Significant records of additional Plecoptera (Nemouridae & Leuctridae) associated with this work	43
Acknowledgements	43
References	43

Abstract

Ten taxa of Balkan *Isoperla* Banks, 1906 are described or redescribed on the basis of SEM studies of the penis, traditional morphological features, and egg structure: *I. oxylepis oxylepis* (Despax, 1936), *I. oxylepis balcanica* Raušer, 1962, *I. bosnica* Aubert, 1964 stat. rev., *I. citrina* sp. n., *I. albanica* Aubert, 1964, *I. vevcianensis* Ikonomov, 1980, *I. tripartita tripartita* Illies, 1954, *I. obliqua* Zwick, 1978 stat. n., *I. pesici* sp. n. and *I. autumnalis* sp. n. The types and arrangement of scales and sensilla on penial lobes are summarized for West Palaearctic species groups with some preliminary changes in species grouping proposed. An annotated checklist of the Balkanian species is given and the known distribution of endemic taxa are depicted on maps. *Isoperla oxylepis balcanica* and *I. vevcianensis* are new for the fauna of Albania, while *I. bosnica* and *I. grammatica* (Poda, 1761) are new for Montenegro and Greece, respectively. Additional significant new country records are provided for *Amphinemura triangularis* (Ris, 1902), *A. quadrangularis* Zwick, 1978, *Nemoura caligula* Zwick, 1978 and *Leuctra jahorinensis* Kaćanski, 1972.

Key words: Plecoptera, *Isoperla*, species groups, new species, redescription, penial structures, SEM, Balkans

Introduction

The genus *Isoperla* Banks, 1906 is Holarctic and Oriental, the most species rich genus among the Perlodidae with about 150 species worldwide (DeWalt et al. 2011, Baumann & Lee 2009, Szczytko & Stewart 1979, Zwick & Surenkhorloo 2005). The western Nearctic and eastern Palaearctic species are relatively well known, even in the