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An annotated catalogue of the Buprestidae of Iran (Coleoptera: Buprestoidea)

HASSAN GHAHARI¹, MARK G. VOLKOVITSH² & †CHARLES L. BELLAMY³

¹Department of Plant Protection, Yadegar – e- Imam Khomeini (RAH) Branch, Islamic Azad University, Tehran, Iran.
E-mail: hghahari@yahoo.com

²Laboratory of Insect systematics, Zoological Institute RAS, Universitetskaya nab., 1, St. Petersburg, 199034 Russia.
E-mail: polycest@zin.ru

³Plant Pest Diagnostic Branch, California Department of Food & Agriculture, 3294 Meadowview Road, Sacramento, California, 95832, U.S.A. † *Now deceased.*



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Abstract

An annotated taxonomic catalogue of the jewel beetles (Coleoptera: Buprestidae) of Iran is given. Original descriptions and recent revisionary or catalogue data are included along with the distribution, both within and outside of Iran, ecological data and host plant associations, junior synonyms, and comments. A complete bibliography completes the catalogue. In total 428 species and 52 subspecies of jewel beetles belonging to 6 subfamilies (Julodinae, Polycestinae, Galbellinae, Chrysochroinae, Buprestinae, and Agrilinae), 20 tribes, and 38 genera are known from Iran including doubtful records and 4 nomina nuda. It is likely that the number of jewel beetle species from Iran will be between 460–480 and possibly even more species.

Key words: Iran, Coleoptera, Buprestidae, taxonomy, catalogue, distribution, host plants

Introduction

This catalogue contains only published data on Iranian Buprestidae. The structure and sequence for the classification used herein is the same as that presented in the recent catalogue of Palaearctic Coleoptera (Bílý 2006a; Jendek 2006; Kubáň 2006; Kubáň & Volkovitsh 2006; Volkovitsh 2006; Volkovitsh & Kalashian 2006) and the world catalogue of Buprestoidea (Bellamy 2008a, 2008b, 2008c, 2008d, 2009). Users of this checklist are referred to those volumes for full catalogue and synonymy data, much of which is not repeated here. This work focuses on the respective original description for all valid names, both senior and junior synonyms as well as unavailable names for infraspecific taxa described from Iran. While many of the synonyms listed below were not originally described from Iran, they are nonetheless included because of their current position as junior synonyms of valid species which currently are recorded from Iran. We have not included reference to original descriptions of the genus-group names. All specific epithets are listed in alphabetical sequence with subsequent reference to either subgenus, species-group, or both.

We have added pertinent and relatively recent references to the Iranian buprestid fauna to aid Iranian researchers, e.g. Radjabi (1968, 1974, 1976), Bílý (1983a), Modarres Awal (1997), Borumand (2002), Sakenin *et al.* (2008), Barimani *et al.* (2009), Ghahari *et al.* (2009, 2012), Ghobari *et al.* 2012), etc. However, for those species recorded from Iran, either prior to or subsequent to the 2006 *Catalogue of Palaearctic Coleoptera* with the Buprestidae sections by Bílý (2006a), Jendek (2006), Kubáň (2006), Kubáň & Volkovitsh (2006), Volkovitsh (2006) and Volkovitsh & Kalashian (2006), these are listed with an asterisk (*) which indicates the need for confirmation by specialists. In some cases the records for certain taxa seem unlikely and are not supported by the respective adult and larval host records included with the new records; doubtful records are followed by short notes made by M.G. Volkovitsh frequently containing comments from V. Kubáň and M. Kalashian. Without a modern specialist on Buprestidae in Iran who has experience of the wider Palaearctic fauna and without voucher specimens on which these records were based, we believe that we can only include the taxa for informational thoroughness and yet uphold a standard of accountability.

The spellings of all species epithets have been checked and are herein correct. Several that differ from original or earlier, and perhaps traditional spellings, include: *Cyphosoma lawsoniae* (Chevrolat 1838), *Julodis audouinii* Laporte & Gory 1835, *J. pietzchmanni* Kerremans 1914 and *Melanophila jakovlevi* Semenov-Tian-Shankij 1900 (currently a junior synonym of *M. cuspidata* (Klug 1829)). These are 'incorrect subsequent spellings' validated by subsequent usage according to Article 33.3.1 of the 4th Edition of the *International Code of Zoological Nomenclature* (ICZN 1999).

We have given the distribution for each species and subspecies for provinces within Iran (Figure 1), and separately for countries outside of Iran. We use the common name of the province of Khorasan, as it is mentioned