

## Reversals of precedence in Scolytinae (Coleoptera: Curculionidae): validation

Miloš KNÍŽEK

Forestry and Game Management Research Institute,  
Strnady 136, CZ-252 02 Jiloviště, Czech Republic  
e-mail: knizek@vulhm.cz

**Nomenclature, Coleoptera, Curculionidae, Scolytinae, *Cryphalus saltuarius*, *Hylurgops glabratus*, *Hylurgops palliatus***

**Abstract.** Three species, *Cryphalus saltuarius* Weise, 1891, *Hylurgops glabratus* (Zetterstedt, 1828) and *Hylurgops palliatus* (Gyllenhal, 1813) were declared nomina protecta in Knížek (2011) and the acts were supported by 25 references. One of the supporting references, an electronic database, is unavailable for nomenclatural purposes. Reversals of precedence of all three scolytine species are newly declared.

### INTRODUCTION

Three species, *Cryphalus saltuarius* Weise, 1891, *Hylurgops glabratus* (Zetterstedt, 1828) and *Hylurgops palliatus* (Gyllenhal, 1813) were declared nomina protecta in Knížek (2011), according to ICZN Art. 23.9.1.2. The acts were supported by the following references, all given fully: Alexandrovitch et al. (1996), Bovey (1987), Bright & Skidmore (1997, 2002), Burakowski et al. (1992), Heliövaara et al. (1998), Izhevskiy et al. (2005), Knížek (2004), Krivolutskaya (1996), Křístek & Urban (2004), Lekander (1968), Lekander et al. (1977), Lundberg (1995), Masutti (1995), Michalski & Mazur (1999), Nunberg (1981), Pfeffer (1989, 1995), Pfeffer & Knížek (1993), Razowski (1991), Schnaider (1991), Silfverberg (1992), Voolma et al. (2000), Wood & Bright (1992), Yin et al. (1984). One of the references, (Knížek 2004) is an electronic database, unavailable for nomenclatural purposes. Thus, the declarations in Knížek (2011) do not fulfil the requirements of the ICZN Art. 23.9.2 and are neither available. Therefore, reversals of precedence of the three scolytine species have to be newly declared.

### RESULTS

Reversals of precedence of the three scolytine species are newly declared here (the respective senior synonyms have not been used as valid after 1899):

*Cryphalus saltuarius* Weise, 1891 over *Cryphalus scribe* Gozis, 1886; *Cryphalus saltuarius* Weise, 1891 is declared nomen protectum, according to ICZN Art. 23.9.1.2,

*Hylurgops glabratus* (Zetterstedt, 1828) over *Hylurgops paykullii* (Duftschmid, 1825);

*Hylurgops glabratus* (Zetterstedt, 1828) is declared nomen protectum, according to ICZN Art. 23.9.1.2,

*Hylurgops palliatus* (Gyllenhal, 1813) over *Hylurgops piceus* (Marsham, 1802) and *Hylurgops rufus* (Marsham, 1802); *Hylurgops palliatus* (Gyllenhal, 1813) is declared nomen protectum, according to ICZN Art. 23.9.1.2.

The reversals are supported by the following references: Alexandrovitch et al. (1996), Bovey (1987), Bright & Skidmore (1997, 2002), Burakowski et al. (1992), Heliövaara et al. (1998), Izhevskiy et al. (2005), Krivolutskaya (1996), Křístek & Urban (2004), Lekander (1968), Lekander et al. (1977), Lundberg (1995), Masutti (1995), Michalski & Mazur (1999), Nunberg (1981), Pfeffer (1989, 1995), Pfeffer & Knízek (1993), Razowski (1991), Schedl (1981), Schnaider (1991), Silfverberg (1992), Voolma et al. (2000), Wood & Bright (1992), Yin et al. (1984).

ACKNOWLEDGEMENTS. Author is grateful to Miguel A. Alonso-Zarazaga (Madrid, Spain) for pointing to the invalid declaration and to Ivan Löbl (Geneva, Switzerland) for comments to the manuscript. The study was supported Ministry of Agriculture of the Czech Republic - Resolution RO0117 (6779/2017-MZE-14151).

## REFERENCES

- ALEXANDROVITCH O. R., LOPATIN I. K., PISANENKO A. D., TSINKEVITCH V. A. & SNITKO S. M. 1996: *A Catalogue of Coleoptera (Insecta) of Belarus*. Minsk: FFR RB, 103 pp.
- BOVEY P. 1987: 6. *Coleoptera, Scolytidae, Platypodidae*. *Insecta Helvetica, Catalogus*. Zürich: Fotorotar AG, 96 pp.
- BRIGHT D. E. & SKIDMORE R. E. 1997: *A catalog of Scolytidae and Platypodidae (Coleoptera), Supplement 1 (1990-1994)*. Ottawa: NRC Research Press, vii + 368 pp.
- BRIGHT D. E. & SKIDMORE R. E. 2002: *A catalog of Scolytidae and Platypodidae (Coleoptera), Supplement 2 (1995-1999)*. Ottawa: NRC Research Press, viii + 523 pp.
- BURAKOWSKI B., MROCZKOWSKI M. & STEFANSKA J. 1992: *Chrzęszcze Coleoptera, Ryjkowcowate prócz ryjkowców - Curculionoidea prócz Curculionidae. Katalog fauny Polski, Część XXIII, tom 18*. Warszawa: Dział wydawnictw muzeum i institutu Zoologii PAN, 324 pp., 1 map
- HELIÖVAARA K., PELTONEN M., MANNERKOSKI I. & SIITONEN J. 1998: *Suomen Kaarnakuoriaiset (Coleoptera: Scolytidae). Reports 25*. Helsinki: Yliopistopaino, 91 pp.
- INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE 1999: *International Code of Zoological Nomenclature. Fourth Edition*. London: The International Trust for Zoological Nomenclature, XXIX + 306 pp.
- IZHEVSKIY S. S., NIKITSKIY N. B., VOLKOV O. G. & DOLGIN M. M. 2005: *Ilyustrirovannyi spravochnik zhukov-ksilofagov - vreditel' lesa i lesomaterialov Rossiyskoy Federatsii*. Tula: Grif i K., 220 pp.
- KNÍZEK M. 2004: Fauna Europaea: Scolytinae. In: ALONSO-ZARAZAGA M. A. (ed.): Fauna Europaea: Curculionidae. Fauna Europaea version 1.1, <http://www.faunaeur.org> (cited as in the original paper of Löbl & Smetana 2011).
- KNÍZEK M. 2011: Scolytinae. Pp. 86-87, 204-251. In: LÖBL I. & SMETANA A. (eds.): *Catalogue of Palaearctic Coleoptera, Volume 7, Curculionoidea I*. Stenstrup: Apollo Books, 373 pp.
- KRIVOLUTSKAYA G. O. 1996: Sem. Scolytidae - Koroedy. Pp. 312-373. In: LER P. A. (ed.): *Opredelitel nasekomykh Dalnego Vostoka Rosii [Key to the insects of the Russian Far East]. Tom III. Zhestkokrylye, Hi zhuki. Chast 3*. Vladivostok: Nauka, 555 pp.
- KŘÍSTEK J. & URBAN J. 2004: *Lesnická entomologie*. Praha: Serifa, 446 pp.
- LEKANDER B. 1968: *Scandinavian bark beetle larvae, descriptions and classification*. Stockholm: Skogshögskolan, Institutionen för Skogszoologi, 186 pp.
- LEKANDER B., PETERSEN B. B., KANGAS E. & BAKKE A. 1977: The distribution of bark beetles in the nordic countries. *Acta Entomologica Fennica* 32: 1-37, 78 maps.
- LUNDBERG S. 1995: *Catalogue Coleopterorum Sueciae*. Stockholm: Tryckt PÅ i Uppsala AB, 223 pp.

- MASUTTI L. 1995: Famiglia Scolytidae. Pp. 61-64. In: MINELLI A., RUFFO S. & LA POSTA S. (eds): *Checklist delle specie della fauna italiana, Fascicolo 61*. Bologna: Calderini, 5 + 68 pp.
- MICHALSKI J. & MAZUR A. 1999: *Korniki. Praktyczny przewodnik dla lesników*. Warszawa: Drukarnia Naukowo-Techniczna, 188 pp.
- NUNBERG M. 1981: *Klucze do oznaczania owadów Polski, Część XIX Chrzęszcze - Coleoptera, Zeszyt 99-100, Korniki - Scolytidae, Wyrzyniki - Platypodidae*. Warszawa, Wrocław: Wrocławska drukarnia naukowa, 115 pp.
- PFEFFER A. 1989: *Kůrovcovití Scolytidae a jádrohlodovití Platypodidae. Zoologické kľiče*. Praha: Academia, 137 pp.
- PFEFFER A. 1995: Zentral- und Westpaläarktische Borken- und Kernkäfer (Coleoptera: Scolytidae, Platypodidae). *Entomologica Basiliensia* 17: 5-310.
- PFEFFER A. & KNÍZEK M. 1993: Scolytidae. Pp. 153-158. In: JELÍNEK J. (ed.): Check-list of Czechoslovak Insects IV (Coleoptera). *Folia Heyrovskyana, Supplementum* 1: 3-172.
- RAZOWSKI J. 1991: *Checklist of Animals of Poland. Vol. III*. Krakow: Drukarnia Kolejowa, 217 pp. (in Polish and English).
- SCHEDL K. E. 1981: 91. Familie: Scolytidae (Borken- und Ambrosiakäfer), (Ipidae), 34-99. In: FREUDE H., HARDE K. W. & LOHSE G. A. (eds): *Die Käfer Mitteleuropas, Band 10*. Krefeld: Goecke & Evers, 310 pp.
- SCHNAIDER Z. 1991: *Atlas uszkodzen drzew i krzewow powodowanych przez owady i roztocze*. Warszawa: Contrast, 320 pp.
- SILFVERBERG H. 1992: *Enumeratio coleopterorum Fennoscandiae, Daniae et Baltiae*. Helsinki: Viestipaino Oy, V + 94 pp.
- VOOLMA K., OUNAP H. & SUDA I. 2000: *Distribution Maps of Estonian Insects. Vol. 2. Maps 98-165, Scolytidae*. Tartu: Eesti Loodusfoto, 84 pp.
- WOOD S. L. & BRIGHT D. E. 1992: A Catalog of Scolytidae and Platypodidae (Coleoptera), Part 2: Taxonomic Index (Vol. A & Vol. B). *Great Basin Naturalist Memoirs* 13: 1-1553.
- YIN H.-F., HUANG F.-S. & LI Z.-L. 1984: *Economic insect fauna of China. Fasc. 29. Coleoptera: Scolytidae*. Beijing: Science Press, x + 205 pp., 17 pls.

Received: 12.4.2017

Accepted: 10.5.2017

Published: 5.10.2017

