

BRAUERIA (Linz am See, Austria) 35:9-10 (2008)

## Status of four Chinese species of Hydropsychinae (Trichoptera: Hydropsychidae)

János OLÁH, J.C. MORSE & C. SUN

Much confusion has surrounded the common use of the species epithet "chinensis" among species of Hydropsychinae genera. Here we attempt to resolve some of these issues in order to clarify and stabilize the use of these names.

### *Potamyia chinensis* (ULMER, 1915)

*Hydropsyche chinensis* ULMER, 1915: 47-48, figs. 14-15. Described from China (Beijing and Honanfu). The holotype was borrowed, examined and is deposited in Museum für Naturkunde an der Humboldt-Universität zu Berlin, Germany. *Potamyia chinensis* (ULMER); changed combination by TIAN and LI, 1987: 128.

*Hydropsyche echigoensis* TSUDA, 1949: 20, 21-22, figs. 2a-c; synonymized by OLÁH & al., 2006: 751. Described from Japan. The holotype of this species is lost.

*Cheumatopsyche tiennuiaca* SCHMID, 1965: 145, pl. VI figs. 5-7; synonymized by TIAN & al., 1996: 138; synonymy confirmed by OLÁH & al., 2006: 751. Described from China (Zhejiang). The holotype male is in the Zoologisches Forschungsinstitut und Museum A Koenig, Bonn, Germany.

ULMER (1915) described *Hydropsyche chinensis* from China. It was transferred to *Potamyia* by TIAN & LI (1987). It is a true *Potamyia* species giving the name of the *Potamyia chinensis* Species Group (OLÁH & al. 2006).

### *Potamyia martynovi* OLÁH & MORSE, Nomen Novum

*Potamyia chinensis* MARTYNOV, 1930: 79-80, textfig. 23. Described from China ("Chungking" = Chongqing, Sichuan). The holotype was examined and is deposited in The Natural History Museum, London, United Kingdom.

*Cheumatopsyche chekiangensis* SCHMID, 1965: 142, 145, pl. VI figs. 3-4; New Synonym. Described from China (Zhejiang). The holotype was examined and is deposited in the Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany.

*Potamyia chekiangensis* (SCHMID); changed combination by OLÁH & al. 2006: 743, 751.

MARTYNOV (1930) described *Potamyia chinensis* from China. *Cheumatopsyche chekiangensis* SCHMID was transferred to *Potamyia* by OLÁH & al. (2006). We have reexamined the holotype and paratype of *Potamyia chekiangensis* SCHMID, 1965, and found it almost identical with *Potamyia chinensis* MARTYNOV, 1930, such that we consider them the same species. However, *Potamyia chinensis* MARTYNOV, 1930, is a homonym of *Potamyia chinensis* (ULMER, 1915). Here we give a New Name *Potamyia martynovi* OLÁH & MORSE for *Potamyia chinensis* MARTYNOV, and synonymize *Potamyia chekiangensis* SCHMID as a New Synonym of *Potamyia martynovi* OLÁH & MORSE.

### *Cheumatopsyche chinensis* (MARTYNOV, 1930)

*Hydropsyches chinensis* MARTYNOV, 1930: 80-81, textfigs. 24-25. Described from China ("Chungking" = Chongqing, Sichuan). The holotype is in The Natural History Museum, London, United Kingdom.

*Cheumatopsyche chinensis* (MARTYNOV); changed combination by MOSELY, 1939: 27.

*Cheumatopsyche banksi* MOSELY, 1942: 351-352, 361, figs. 26-28. Synonymized with *Cheumatopsyche amurensis* MARTYNOV by TIAN & al., 1996: 131, but synonymized with *Cheumatopsyche chinensis* (MARTYNOV) by OLÁH & al., 2008a: 150. Described from China (Fujian). Holotype is examined and is deposited in The Natural History Museum, London, United Kingdom.

*Potamyia parva* TIAN & LI, 1987: 128. Changed combination and *nomen novum* for *Hydropsychedes chinensis* MARTYNOV, 1930, the changed combination having created homonymy with *Potamyia chinensis* MARTYNOV, 1930.

MARTYNOV (1930) described *Hydropsychedes chinensis* from China. It was transferred to *Cheumatopsyche* by MOSELY (1939). Later it was transferred to *Potamyia* by TIAN & LI (1987) without examining the type and a replacement name *Potamyia parva* TIAN & LI, 1987, was proposed because of the resultant homonymy with *Potamyia chinensis* (ULMER, 1915). We have examined the holotype of *Hydropsychedes chinensis* MARTYNOV, 1930, and it clearly belongs in *Cheumatopsyche* (OLÁH & al. 2006), giving the name for the *Cheumatopsyche chinensis* Species Group (OLÁH & al. 2008a). The reinstatement of *Cheumatopsyche chinensis* (MARTYNOV, 1930) as the valid name of the species is consistent with the International Code of Zoological Nomenclature (International Commission on Zoological Nomenclature, 1999, Article 59.4).

### *Potamyia nuonga* OLÁH & BARNARD 2006

*Potamyia parva* TIAN & LI; TIAN & al., 1996: 140, figs. 218a-d. Reported from China (Guangdong, Sichuan, Yunnan). Specimen illustrated is of a species of *Potamyia* that is not *Hydropsychedes chinensis* MARTYNOV [now *Cheumatopsyche chinensis* (MARTYNOV)], and not a valid replacement name for *Potamyia chinensis* MARTINOV.

TIAN & al. (1996) cited *Potamyia parva* TIAN & LI, 1987, as the valid name for *Potamyia chinensis* MARTYNOV, 1930, but their drawings actually represent a previously undescribed species with thin and pointed hook formation at the apex of tergum X. *Potamyia chinensis* MARTYNOV, 1930 (now *Potamyia martynovi* OLÁH & MORSE) is without any sign of hook formation on the apices of segment X. Later this animal with hook formation was described as *Potamyia nuonga* OLÁH & BARNARD from Vietnam (OLÁH & al. 2006). TIAN & LI's (1987) nomenclatural act was based on a misidentification. The resulting name is invalidated herein, but the species to which this name was referred by TIAN et al. (1996) remained unnamed until OLÁH & BARNARD (2006) named it based on other specimens. We re-examined the specimens from the works by TIAN & LI (1987) and TIAN et al. (1996) and discovered that the endothecal process is short, and not long as depicted by TIAN & al. (1996), corresponding well with the shape of the endothecal process of *Potamyia nuonga* OLÁH & BARNARD.

New Records of *Potamyia nuonga* OLÁH & BARNARD: CHINA: 2 males, down stream of Bian-ao river, Huaping county, Yunnan ( $101.2679^{\circ}$ ,  $26.6278^{\circ}$ ), 1280m, V-30, 1996, lighttrap, collected by Yang Lianfang, John Morse, and Du Yuzhou; CHINA: 2 males, branch of Jinshajiang river, Xinzhuan village ( $101.1937^{\circ}$ ,  $26.5818^{\circ}$ ), Huaping county, Yunnan, 1280m, V-30, 1996, lighttrap, collected by Wang Beixin and Zhou Changfa; CHINA: 5 males, Xinzhuan river, Huaping county, Yunnan, 1280m, V-30, 1996, lighttrap, collected by Wang Xinhua.

**References Cited**

- BARNARD, K.H. (1940) Additional records, and descriptions of new species, of South African Alder-flies (Megaloptera), May-flies (Ephemeroptera), Caddis-flies (Trichoptera), Stone-flies (Perlaria) and Dragon-flies (Odonata). Annals of the South African Museum 32(6): 609-661.
- INTERNATIONAL Commission on Zoological Nomenclature (1999) International Code of Zoological Nomenclature, Fourth Edition. International Trust for Zoological Nomenclature, London. 306 pp.
- KIMMINS, D.E. (1960) A review of the African species of the genus Cheumatopsyche (Trichoptera, Hydropsychidae) with reference to those of South Africa. Bulletin of the British Museum (Natural History), Entomology, 9:253-267.
- MARTYNOV, A.B. (1930) On the trichopterous fauna of China and eastern Tibet. Proceedings of the Zoological Society of London, 1930 (5), 65-112.
- MOSELY, M.E. (1939) Trichoptera. Ruwenzori Expedition 1934-35. British Museum (Natural History), 3 (1), 1-40.
- MOSELY, M.E. (1942) Chinese Trichoptera: A collection made by Mr. M.S. Yang in Foochow. Transactions of the Royal Entomological Society of London, 92, 343-362.
- OLÁH, J., BARNARD, P.C. & MALICKY, H. (2006) A revision of lotic genus *Potamyia* BANKS 1900 (Trichoptera: Hydropsychidae) with the description of eight new species. Linzer biologische Beiträge, 38(1), 739-777.
- OLÁH J., JOHANSON K.J. & BARNARD P.C. (2008a) Revision of the Oriental and Afrotropical species of Cheumatopsyche WALLENGREN (Hydropsychidae, Trichoptera). Zootaxa 1738: 1-171.
- OLÁH J. & K.A. JOHANSON (2008b). Generic review of Hydropsychinae, with description of *Schmidopsyche*, new genus, 3 new genus clusters, 8 new species groups, 4 new species clades, 12 new species clusters and 62 new species from Oriental and Afrotropical regions (Trichoptera: Hydropsychidae). Zootaxa 1802: 1-248.
- SCHMID, F. (1965) Quelques Trichoptères de Chine II. Bonner Zoologische Beiträge, 16 (1-2), 127-154.
- TIAN L. & Y.LI (1987) A preliminary study of the subfamily Hydropsychinae (Trichoptera: Hydropsychidae) in China. p. 125-129. In: Bournard M. and H. Tachet (Eds.) Proceedings of the Fifth International Symposium on Trichoptera. Dr W. Junk Publisher, Series Entomologica 39.
- TIAN, L., L. YANG & Y. LI (1996) Economic Insect Fauna of China 49, Trichoptera (1): Hydroptilidae, Stenopsychidae, Hydropsychidae, Leptoceridae. Science Press, Beijing. 195 pp., 2 pls.
- TSUDA, M. (1949) Zwei neue *Hydropsyche*-arten (Trichoptera) aus Japan. Transactions of the Kansai Entomological Society 14, 2: 20-22.
- ULMER, G. (1915) Trichopteren des Ostens, besonders von Ceylon und Neu-Guinea. Deutsche Entomologische Zeitschrift, 1915, 41-75.
- J.O., Department of Environmental Management, Tessedik College, Residential address: I.kk. 10, H-5540 Szarvas, Hungary, [saker@szarvasnet.hu](mailto:saker@szarvasnet.hu)
- J.M., Department of Entomology, Soils, and Plant Sciences; Clemson University; Clemson, South Carolina 29634, U.S.A., [jmorse@clemson.edu](mailto:jmorse@clemson.edu)
- S.C., Department of Entomology, Nanjing Agricultural University, Nanjing 210095, Jiangsu Province, P.R.China, [chsun@njau.edu.cn](mailto:chsun@njau.edu.cn)

**Addresses of Authors:**

BRAUERIA (Lunz am See, Austria) 35:10 (2008)

Nachträge und Korrekturen zum Atlas der europäischen Köcherfliegen und zum Verzeichnis der Köcherfliegen Europas (3).

Hans MALICKY

*Rhyacophila fonticola* GIUDICELLI & DAKKI 1984: Beschreibung des Weibchens und der Larve: VIEIRALANERO, GONZÁLEZ, RUIZ-GARCIA & COBO 2008, Aquatic Insects 30:21-28.

*Chaetopteryx bektasensis* n.sp. SIPAHILER 2008: Braueria 35:23 (Türkei, Giresun)

*Consorophylax corvo* n.sp. MALICKY 2008: Braueria 35:40 (Italien, Piemont)

*Notidobia kumbetensis* n.sp. SIPAHILER 2008: Braueria 35:23 (Türkei, Giresun)

*Athripsodes caglari* n.sp. SIPAHILER 2008: Aquatic Insects 30: 1-6 (Türkei: Van, Tunceli, Kars, Erzurum)

*Athripsodes ozerenae* n.sp. SIPAHILER 2008: Aquatic Insects 30:1-6 (Türkei: Konya)

# ZOBODAT - [www.zobodat.at](http://www.zobodat.at)

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Braueria](#)

Jahr/Year: 2008

Band/Volume: [35](#)

Autor(en)/Author(s): Olah Janos, Morse John C., Sunanghai

Artikel/Article: [Status of four Chinese species of Hydropsychinae \(Trichoptera: Hydropsychidae\) 9-10](#)