# *Chelifer longimanus* Kollar, 1848: a nomen nudum corresponding to *Neobisium spelaeum* (Schiödte, 1847) (Pseudoscorpiones: Chelonethi: Neobisiidae)

### Mark L.I. Judson & Christoph Hörweg

doi: 10.5431/aramit4408

**Abstract:** The manuscript name *Chelifer longimanus* Kollar, 1848, most often cited as *Obisium longimanum* Kollar, was first introduced in a note by KOLLAR (1848) that has been overlooked in the taxonomic literature on pseudoscorpions. No description or indication has been associated with this name, which is therefore a nomen nudum. It corresponds to the valid pseudoscorpion species *Neobisium spelaeum* (Schiödte, 1847), having been found at one of the type localities of the latter (Postojna Cave, Slovenia). Two specimens originally identified as *0.longimanum* (probably by V. Kollar) are present in the collections of the Naturhistorisches Museum Wien.

Key words: Nomenclature, Postojna cave, pseudoscorpion, Slovenia

The early literature on karst animals contains frequent references to a pseudoscorpion with the manuscript name *Obisium longimanum* Kollar (KHEVENHÜLLER-METSCH 1852, 1853, POKORNY 1854, SCHINER 1854, 1870, HALIDAY in WRIGHT 1857, LÖW 1862, FRIES 1874). Thereafter, this name was generally ignored, except for the catalogue of WOLF (1938). It has not been mentioned in the specialist literature on pseudoscorpions, being absent from the lists of nomina nuda provided by BEIER (1932) and HARVEY (1991, 2011). Here we clarify the status of this name, based on a literature survey and an examination of two surviving specimens originally attributed to *O. longimanum*.

### Identity of Chelifer longimanus Kollar

The name *Chelifer longimanus* was introduced by KOLLAR (1848), who wrote:

"Auch aus der Classe der *Arachniden* entdeckte Herr Schmid eine ausgezeichnete Art der Afterscorpione *Chelifer*, welche ich *Chelifer longimanus* nenne, bei dem ebenfalls keine Augen sichtbar sind." [Also from the class of arachnids Mr Schmid discovered a distinctive species of *Chelifer* false-scorpions, which I call *Chelifer longimanus*, in which also no eyes are visible.] KOLLAR (1848) only mentioned the absence of eyes with reference to other cave dwelling animals, not to

Mark JUDSON, Muséum national d'Histoire naturelle,

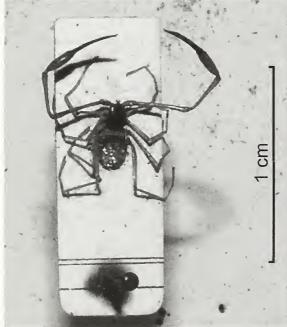
Département Systématique et Évolution, CNRS UMR 7205, 57 rue Cuvier, C.P. 53, 75005 Paris, France; E-Mail: judson@mnhn.fr

Christoph HÖRWEG, Naturhistorisches Museum Wien, 3. Zoologische Abteilung, Burgring 7, 1010 Wien, Austria; E-Mail: christoph.hoerweg@nhm-wien.ac.at

eingereicht: 28.8.2012, akzeptiert: 9.11.2012; online verfügbar: 28.12.2012

other pseudoscorpions. It was not being proposed as a diagnostic character and it did not define the species because other eyeless pseudoscorpions were known by that time. The "Herr Schmid" credited with the discovery of the species is F.J. Schmidt, who first mentioned it in a talk given to the Eighth Assembly of Hungarian Physicians and Naturalists in Oedenburg on 16 August 1847. The name Schmidt proposed there, Chelifer troglodytes, was mentioned (as a nomen nudum) in reports of the meeting by HAMMERSCHMIDT (1847, p. 196) and ZIPSER (1847). SCHMIDT (1848) later described the species as Obisium troglodytes Schmidt, 1848, which is now considered a junior synonym of Neobisium spelaeum (Schiödte, 1847) (see JUDSON 2012). Kollar's paper was read to the Austrian Academy during its meeting of 30 March 1848, but he does seem to have been aware of Schmidt's description of O. troglodytes, which had been published in the supplement (Illyrisches Blatt) of a local newspaper (Laibacher Zeitung) on 8 January 1848. Because KOLLAR (1848) did not mention O. troglodytes by name, C. longimanus cannot be considered a nomen novum for that species. The simple mention of Schmidt's discovery is too vague to constitute an indication in the sense of the INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE (1999), which requires "a bibliographic reference to a previously published description or definition" (Article 12.2.1). Thus, in the absence of a description or indication, Chelifer longimanus is a nomen nudum. KOLLAR (1848) also seems to have been unaware of SCHIÖDTE's (1847) description of Blothrus spelaeus from Postojna cave, which had been published on 12 August 1847 (JUDSON 2012).





- **Fig. 1**: Two specimens of *Neobisium spelaeum* in the Naturhistorisches Museum Wien previously identified as '*Obisium longimanum*' (nomen nudum), conserved dry in box ( $8 \times 6.5 \times 5$  cm; glass lid removed), with Beier's identification label pinned above original label.
- Fig. 2: One of the two specimens of *Neobisium spelaeum* in the Naturhistorisches Museum Wien previously identified as '*Obisium longimanum*' (nomen nudum).

"Chelifer longimanus Koll" was later mentioned by SCHINER (1851), who noted that three specimens had been found in Adelsberg cave (now Postojna cave, Slovenia) by KHEVENHÜLLER-METSCH, in

### M. Judson & C. Hörweg

August 1850. SCHINER (1852) also reported evidence that this pseudoscorpion fed on the beetle Leptodirus hochenwartii Schmidt, 1832, and stated that this confirmed Schmidt's suspicions on this subject. No reference is given, but this may be an allusion to SCHMIDT's (1848) article, where he writes "Das Thier lebt allem Anschein nach gleich seinen Stammverwandten von Insecten, und ich habe allen Grund zu vermuthen, daß ihm der etwas träge Leptodirus nicht selten zur Beute wird, nachdem ich an einigen Orten, wo mir das Obisium troglodytes zu Theil

wurde, Ueberreste von Hohenwart's Höhlerkäfern fand." [This animal seems to live on insects like its relatives, and I have every reason to suppose that the somewhat sluggish *Leptodirus* is often the prey, since in places where *Obisium troglodytes* occurred, I found remains of Hohenwart's cave beetle.]

KHEVENHÜLLER-METSCH (1852) referred to the pseudoscorpion he had collected from Postojna cave as "Obisium longimanum Koll. (Blothrus spelaeus Schiödte)". This was the first time that the identity of C. longimanus with B. spelaeus had been recognized. However, the way in which it was presented led to some confusion. FRIES (1874) mistakenly treated O. longimanum as a senior synonym of B. spelaeus, while other authors, such as POKORNY (1854), MÜLLER (1857: as C. longimanus) and SCHINER (1870), treated it as a valid name, without mentioning the synonymy. HALIDAY (in WRIGHT 1857) even listed O. longimanum and B. spelaeus as distinct species in separate genera. These errors could have been avoided because SCHINER (1854: 264) had clearly summarized the situation when he wrote "Blothrus spelaeus. (Obisium troglodytes Schmidt. — Obisium longimanum Kollar in litt.)" in a standard reference on the karst fauna.

It is not clear why KHEVENHÜLLER-METSCH (1852) decided that the combination *Obisium longi-manum* should be used, given that *Obisium* was used in two different senses during the 19<sup>th</sup> century (JUD-SON 2012). If the genus intended was *Obisium* Illiger, 1798 (a synonym of *Chelifer* Geoffroy, 1792), this would simply indicate a lack of familiarity with the taxonomic literature on pseudoscorpions. If, however,

#### Chelifer longimanus

*Obisium* auct. was intended, this would be remarkably perspicacious because it was not until much later that *Blothrus* Schiödte, 1847 was recognized to be a polyphyletic assemblage of cavernicolous species within *Neobisium* Chamberlin, 1930 (= *Obisium* auct.).

KHEVENHÜLLER-METSCH stated that he had visited Postojna cave in September 1850, August and December 1851, and May 1852 (KHEVENHÜLLER-METSCH 1852, 1853), and mentioned collecting five specimens of *O. longimanum*, three of which

were preserved in alcohol and two dry. The latter two specimens probably correspond to those listed under the name O. longimanum by LÖW (1862, p. 57, table) as being in the collections of the Kaiserlich-königliche zoologisch-botanische Gesellschaft. These are still preserved dry in the collections of the Naturhistorisches Museum Wien (Figs 1-2), labelled "Obisium longimanus [sic] gestiftet im J[ahre] 1851 oder 1852 von Hr Fürst von Khevenhüller, ... [illegible], 14/2" (old handwritten label; Fig. 3) and "Obisium (Blothrus) spelaeum Schiödte, det. Dr. Beier" (label in Beier's handwriting; Fig. 1). These specimens were listed amongst the material of N. spelaeum examined by BEIER (1928), who did not mention the manuscript name. Because Kollar was the curator of the natural history collections of the Kaiserlich-königliche zoologisch-botanische Gesellschaft (THALER & GRU-BER 2003)—hence the references to "Kustos Kollar" in SCHINER (1852) and KHEVENHÜLLER-METSCH (1852, 1853)-he must have seen these specimens and may well have been responsible for their identification. Thus they provide an indirect confirmation that C. longimanus and N. spelaeum refer to one and the same species.

## Was *Obisium longimanum* made available under Article 11.6 of the Code?

Article 11.6 of the International Code of Zoological Nomenclature states that "A name which when first published in an available work was treated as a junior synonym of a name then used as valid is not thereby made available". However, Article 11.6.1 goes on to specify the conditions under which such a name could later be made available: "if such a name published as a junior synonym had been treated before 1961 as an available name and either adopted as the name of a taxon or treated as a senior homonym, it is made available thereby but dates from its first publication as a synonym." A literal reading of Article 11.6 might suggest that it only applies to the first work in which the name appeared, but the entry for 'nomen nudum' in the glossary makes it clear that this is not the case: "A nomen nudum is not an available name, and therefore the same name may be made available later for the same or a different concept; in such a case it would take authorship and date from that act of establishment, not from any earlier publication as a nomen nudum."

It could be argued that KHEVENHÜLLER-METSCH (1852) published O. longimanum as a junior synonym of Blothrus spelaeus Schiödte, 1847 and that this name was adopted as the name of the species by POKORNY (1854), MÜLLER (1857), SCHINER (1870) and FRIES (1874), thus making it an available name in accordance with Article 11.6. However, we do not think that this would be correct. There is an ambiguity in Article 11.6.1, due to the unqualified use of the word "adopted". Does this mean generally adopted, or just adopted by at least one author? We think it unlikely that this article was intended to be used to allow nomina nuda to be treated as available names simply through subsequent erroneous usage, as in the case of the authors cited above who used O. longimanum as if it were a valid name. We therefore interpret Article 11.6 as applying only to names that were generally adopted by taxonomists familiar with the group. Because the great majority of authors have always recognized Blothrus spelaeus (and later combinations) as the valid name for the species, we do not consider O. longimanum to have been made



Fig. 3: Original label accompanying the specimens of *Neobisium spelaeum* in the Naturhistorisches Museum Wien, previously identified as '*Obisium longimanum*' (nomen nudum).

available from KHEVENHÜLLER-METSCH (1852) by any subsequent work.

### Potential value of nomina nuda

From a strictly nomenclatural point of view, nomina nuda are nothing more than a nuisance and ought to be avoided. Nevertheless, once created they should not be entirely ignored, since pertinent information concerning a species may be associated with such names in the literature. In the case of O. longimanum, for example, KHEVENHÜLLER-METSCH (1852) and SCHINER (1852, 1854) reported indirect evidence of predation on the cave beetle Leptodirus hochenwartii Schmidt, 1832 (Leiodidae) and SCHINER (1870) observed apparent avoidance of the pseudoscorpion by the beetle. Because very little is yet known about the biology of cavernicolous pseudoscorpions, even such anecdotal observations still have some worth. Other types of information, such as distribution records, may also be associated with nomina nuda, so it is useful to keep track of them and, when possible, to identify them with valid names.

### Acknowledgements

We are grateful to Theo Blick and an anonymous referee for comments and corrections that improved the text.

### References

- BEIER M. (1928): Die Pseudoskorpione des Wiener Naturhistorischen Museums. I. Hemictenodactyli. – Annalen des Naturhistorischen Museums in Wien 42: 285-314
- BEIER M. (1932): Pseudoscorpionidea II. Subord. C. Cheliferinea. – Tierreich 58: i-xxi, 1-294
- FRIES S. (1874): Die Falkensteiner Höhle, ihre Fauna und Flora. – Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg 30: 86-164
- HAMMERSCHMIDT K. (1847): Bericht über die diesjährige VIII. Versammlung ungarischer Naturforscher und Aerzte in Oedenburg. – Berichte über die Mittheilungen von Freunden der Naturwissenschaften in Wien 3 (2): 179-208
- HARVEY M.S. (1991) ["1990"]: Catalogue of the Pseudoscorpionida. Manchester Univ. Press, Manchester. vi + 726 p.
- HARVEY M.S. (2011): Pseudoscorpions of the World, version 2.0. Western Australian Museum, Perth. – Internet: http://www.museum.wa.gov.au/catalogues/pseudoscorpions (accessed in Aug. 2012)
- INTERNATIONAL COMMISSION ON ZOOLOGICAL NO-MENCLATURE (1999): International Code of Zoological Nomenclature. Fourth edition, International Trust for Zoological Nomenclature, London. XXIX + 306 p.
- JUDSON M.L.I. (2012): Nomenclatural problems associated with the generic names *Obisium* Leach, 1814, *Blothrus* Schiödte, 1847 and *Neobisium* Chamberlin,

1930 (Arachnida: Chelonethi). – Zootaxa 3475: 21-35

- KHEVENHÜLLER-METSCH R. Fürst zu (1852): Briefliche Nachricht der Durchforschung der Adelsberger Grotte [account presented by SCHINER, J.R.]. – Verhandlungen des zoologisch-botanischen Vereins in Wien 1: 105-108
- KHEVENHÜLLER[-]METSCH R. Fürst zu (1853): [Entomologische Untersuchung der Adelsberger Höhle.]
  Verhandlungen des zoologisch-botanischen Vereins in Wien 2: 42-44
- KOLLAR [V.] (1848): Über ein neues sehr merkwürdiges Crustaceum aus den unterirdischen Gewässern von Krain, welches Herr Custos H. Freyer an das k. k. Hof-Naturalien-Cabinet eingesendet hat. – Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften (Mathematisch-Naturwissenschaftlichen Classe) 1: 137-138
- LÖW F. (1862): Die Typensammlung der k. k. zoologischbotanischen Gesellschaft. – Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien 11 [1861]: 48-57
- MÜLLER H. (1857): Ueber die Lebensweise der augenlosen Käfer in den Krainer Höhlen. – Entomologische Zeitung 18: 65-74
- POKORNY A. (1854): [Zoologische Ausbeute der Karsthöhlen.] – Verhandlungen des zoologisch-botanischen Vereins in Wien 3 [1853] (Sitzungsberichte): 24-27
- SCHINER [J.]R. (1851): [seltene, oder für die Wiener Gegend neue Käfer...]. – Oesterreichisches Botanisches Wochenblatt 1 (34): 275
- SCHINER J.R. (1852): Neue Käfer für die Fauna austriaca;
   über *Leptodirus* und *Cymindis*. Verhandlungen des zoologisch-botanischen Vereins in Wien 1: 46-50
- SCHINER J.R. (1854): Fauna der Adelsberger-, Luegerund Magdalenen-Grotte. In: SCHMIDL A. (Ed.): Zur Höhlenkunde des Karstes. Kaiserliche Akademie der Wissenschaften, Wien. p. 231-272
- SCHINER J.R. (1870): Eigenthümlichkeiten und Besonderheiten der Insectenwelt. – Schriften des Vereines zur Verbreitung naturwissenschaftlicher Kenntnisse in Wien 10: 47-88
- SCHIÖDTE J.C. (1847): [Undersögelser over den underjordiske Fauna i Hulerne i Krain og Istrien]. – Oversigt over det Kongelige danske Videnskabernes Selskabs Forhandlinger 1847 (6): 75-81
- SCHMIDT F. (1848): Naturhistorisches aus Krain [Schluß]. – Illyrisches Blatt 1848 (3): 10
- THALER K. & J. GRUBER (2003): Zur Geschichte der Arachnologie in Österreich 1758-1955. – Denisia 8: 139-163
- WOLF B. (1938): Animalium Cavernarum Catalogus. Volumen III: Animalium Catalogus. Dr W. Junk, 's-Gravenhage. 918 p.
- WRIGHT E.P. (1857): Notes of a visit to Mitchelstown caves. With supplemental notes on the blind fauna of Europe, by A.H. Haliday. – Natural History Review 4: 231-241, pl. XVIII
- ZIPSER C.A. (1847): Bericht über die achte Versammlung ungarischer Aerzte und Naturforscher in Oedenburg. – Korrespondenz-Blatt des zoologisch-mineralogischen Vereins in Regensburg 1: 134-137

## **ZOBODAT - www.zobodat.at**

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: Arachnologische Mitteilungen

Jahr/Year: 2012

Band/Volume: 44

Autor(en)/Author(s): Judson Mark L.I., Hörweg Christoph

Artikel/Article: Chelifer longimanus Kollar, 1848: a nomen nudum corresponding to Neobisium spelaeum (Schiödte, 1 847) (Pseudoscorpiones: Chelonethi: Neobisiidae) 47-50