Case 3151

RHOPALURUSINAe Bücherl, 1971 (Arachnida, Scorpiones, Buthidae): proposed conservation as the correct spelling to remove homonymy with RHOPALURIDAE Stunkard, 1937 (Orthonecida)

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Abstract. The purpose of this application, under Articles 29 and 55.3.1 of the Code, is to remove homonymy between the family-group names RHOPALURINAE Bücherl, 1971 (family Buthidae, Scorpiones) and RHOPALURIDAE Stunkard, 1937 (phylum Orthonecida) by changing the spelling of the junior homonym. To date both names have had little use, but the name RHOPALURINAE is likely to be used in future taxonomic revisions of the Buthidae. Before this junior homonym becomes adopted in the literature, it is proposed that the whole of the generic name of the type genus (Rhopalurus Thorell, 1876) of RHOPALURUSINAe Bücherl, 1971, leaving the orthonecrid senior homonym (RHOPALURIDAE Stunkard, 1937) unchanged.

Keywords. Nomenclature; taxonomy; Orthonecida; Arachnida; Scorpiones; RHOPALURIDAE; RHOPALURUSINAe; Rhopalura; Rhopalurus; Rhopalura ophiocoma; Rhopalurus laticauda.

1. The family name RHOPALURIDAE Stunkard, 1937 (p. 6) (phylum Orthonecida) is based on the name of its type genus, Rhopalura Giard, 1877 (p. 813) (type species Rhopalura ophiocoma Giard, 1877, by monotypy). Giard (1877, pp. 812–813) described the animal in question and just after the description wrote ‘Je donne à cet animal étrange le nom de Rhopalura Ophiocoma’ (p. 813). The name RHOPALURIDAE was introduced by Stunkard (1937, p. 6) as a replacement name for the family called ORTHONECTIDAE by Hartmann (1925). Hartmann’s family name was not available because it was not based on any included genus, but merely derived from the phylum name Orthonecida Giard, 1877. The name RHOPALURIDAE was later also proposed by Caullery (1961, p. 703), but Stunkard (1937) has priority as its author. However, family-group names are rarely used in the latest treatments of the phylum Orthonecida (e.g. Kozloff, 1992; Slyusarev & Miller, 1998).
2. The subfamily name **rhopalurinae** Büberl, 1971 (p. 325) (Scorpiones, family **buthidae**) was based on the type genus *Rhopalurus* Thorell, 1876 (p. 9) (type species *R. laticauda* Thorell, 1876 (p. 9) by original designation). *Rhopalurus* is a well-known and diverse genus of large, medically important scorpions from South America and the Caribbean (Kraepelin, 1899; Mello-Leitão, 1945; Büberl, 1971; Lourenço, 1982, 1986; Sissom, 1990; Fet & Lowe, 2000). The name *rhopalurinae* is an available name under the Code and has no synonyms, but it has not been used in the literature since its introduction, mainly because the subfamilial structure of **buthidae** is generally unresolved. Recent treatments of this family have avoided using the subfamily category altogether (Francke, 1985; Sissom, 1990; Fet & Lowe, 2000). However, the name *rhopalurinae* is likely to be used in further taxonomic revisions of the **buthidae**.

3. According to Article 29.3, *Rhopahira* Giard, 1877 and *Rhopalurus* Thorell, 1876 have the same stem (*Rhopahir-*). Therefore, according to Article 55.3, *rhopaluridae* Stunkard, 1937 and *rhopalurinae* Büberl, 1971 are homonyms in the family-group category and the case must be brought to the Commission for a ruling to remove homonymy.

4. The most straightforward way to remove the homonymy between these two names would be to use the whole of the generic name *Rhopalurus* Thorell, 1876 as the stem for the scorpion family-group name, thereby emending the name *rhopalurinae* Büberl, 1971 to *rhopalurusinae* Büberl, 1971. The latter form is preferred by the Code as a means of avoidance of homonymy in family-group names (see Recommendation 29.6A).

5. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary power to rule that for the purposes of Article 29 of the Code the stem of the generic name *Rhopalurus* Thorell, 1876 is *Rhopalus*-;

(2) to place on the Official List of Generic Names in Zoology the following names:
   (a) *Rhopalurus* Thorell, 1876, type species by original designation *Rhopalurus laticauda* Thorell, 1876 (Arachnida);
   (b) *Rhopalura* Giard, 1877, type species by monotypy *Rhopalura ophiocomae* Giard, 1877 (Orthonecida);

(3) to place on the Official List of Specific Names in Zoology the following names:
   (a) *laticauda* Thorell, 1876, as published in the binomen *Rhopalurus laticauda* (specific name of the type species of *Rhopalurus* Thorell, 1876) (Arachnida);
   (b) *ophiocomae* Giard, 1877, as published in the binomen *Rhopalura ophiocomae* (specific name of the type species of *Rhopalura* Giard, 1877) (Orthonecida);

(4) to place on the Official List of Family-Group Names in Zoology the following names:
   (a) *rhopaluridae* Stunkard, 1937, type genus *Rhopalura* Giard, 1877 (Orthonecida);
   (b) *rhopalurusinae* Büberl, 1971, type genus *Rhopalurus* Thorell, 1876 (spelling emended by the ruling in (1) above) (Arachnida);

(5) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name *rhopalurinae* Büberl, 1971 (an incorrect original spelling of *rhopalurusinae*, as ruled in (1) above) (Arachnida).
Acknowledgements

We are grateful to Claus Nielsen (Zoological Museum, University of Copenhagen) and Philip Tubbs (The Natural History Museum, London) for helpful discussions and for reading through earlier drafts of the manuscript.

References


Acknowledgement of receipt of this application was published in BZN 57: 2.

Comments on this case are invited for publication (subject to editing) in the Bulletin; they should be sent to the Executive Secretary, I.C.Z.N., c/o The Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: iczn@nhm.ac.uk).

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