

## Case 3123

**DOLICHOPODINI Brunner von Wattenwyl, 1888 (Insecta, Grylloptera): proposed emendation of spelling to DOLICHOPODAINI, so removing the homonymy with DOLICHOPODIDAE Latreille, 1809 (Insecta, Diptera)**

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**Abstract.** The family-group name DOLICHOPODINI Brunner von Wattenwyl, 1888 (Insecta, Grylloptera) is a junior homonym of DOLICHOPODIDAE Latreille, 1809 (Insecta, Diptera). Both names are currently in use and refer, respectively, to a group of Palaearctic wingless camel crickets or cave crickets, and a large family of about 6000 species of long-legged flies with a world wide distribution in most habitats. It is proposed that the homonymy be removed by changing the spelling of the gryllopteran family-group name to give DOLICHOPODAINI by emending the stem of the name of the type genus *Dolichopoda* Bolívar, 1880, while leaving the dipteran name (based on *Dolichopus* Latreille, 1796) unchanged. The names *Dolichopus* Latreille, 1796 and DOLICHOPODIDAE Latreille, 1809 were placed on Official Lists in Direction 49 (November 1956).

**Keywords.** Nomenclature; taxonomy; Diptera; Grylloptera; DOLICHOPODIDAE; DOLICHOPODAINI; *Dolichopus*; *Dolichopoda*; long-legged flies; camel crickets; cave crickets.

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1. The dipteran family name DOLICHOPODIDAE was first established by Latreille (1809, pp. 239, 290) as DOLICHOPODES, based on the genus *Dolichopus* Latreille, 1796 (p. 159). In Direction 49 (November 1956) the Commission placed DOLICHOPODIDAE Latreille on the Official List, recording Loew (1862, p. 32) as the first author to publish the name in the correct form. However, Sabrosky, Thompson & Evenhuis (1999, p. 117) have recently noted that Latreille's (1809) family name was, in fact, first correctly spelled by Agassiz (1846, p. 128) as DOLICHOPODIDAE. The homonymy of the dipteran family name with DOLICHOPODINI Brunner von Wattenwyl, 1888 in Grylloptera was not considered in Direction 49 (see paras. 4 and 5 below).

2. Latreille (1796) established the genus *Dolichopus* without included species. In 1802 (pp. 439–440) he placed two species in the genus and in 1810 (p. 443) he designated one of these, *Dolichopus unguilatus* 'Fab.' (actually, Linnaeus, 1758), as the type species. The generic name *Dolichopus* and the specific name of *Musca unguilata* Linnaeus, 1758 were also placed on Official Lists in Direction 49. The names *Dolichopus* and *D. unguilatus* refer to long-legged flies.

3. The dipteran family is large, about 6000 species, with a world wide distribution in most habitats, especially those near water or moist areas. The family-group name DOLICHOPODIDAE has been widely and consistently used in the entomological literature. Significant representative publications include Foote, Coulson & Robinson (1965), Robinson (1970a, 1970b), Dyte (1975), Dyte & Smith (1980), Robinson & Vockeroth (1981), Ulrich (1981) and Bickel & Dyte (1986). Negrobov (1987, 1991) divided the subfamily DOLICHOPODINAE into the tribes DOLICHOPODINI and TACHYTRECHINI.

4. The gryllopteran name DOLICHOPODINI was established by Brunner von Wattenwyl (1888, p. 256), as DOLICHOPODAE, for a tribe of Palearctic raphidophorids (wingless camel crickets or cave crickets). Karny (1929, p. 64) emended the spelling to DOLICHOPODINI. The tribal name was based on the genus *Dolichopoda* Bolivar, 1880 (p. 72), which was erected for the single species *Gryllus (Tettigonia) palpata* Sulzer, 1776 (p. 83, pl. 9, fig. 2) from Sicily. The tribal name DOLICHOPODINI has been used in publications by Chopard (1931) and Hubbell (1936). Beier (1955) adopted DOLICHOPODINAE at the subfamily level and this has been followed by Harz (1969) and Hubbell & Norton (1978). The gryllopteran family-group name has been used in several recent publications; these include Vickery & Kevan (1983), Willemse (1984), Caccone & Powell (1987), Sbordoni et al. (1987) and Allegrucci, Caccone, Cesaroni & Sbordoni (1992).

5. The family-group names established by Latreille (1809) and Brunner von Wattenwyl (1888) are homonyms under Article 53.1 of the Code. Sabrosky, Thompson & Evenhuis (1999) pointed out that family-group names based on *Dolichopoda* Bolivar, 1880 are homonyms of those based on the 'very distinct genus *Dolichopus*' in Diptera, and that the latter 'are much older'. Both family-group names are currently in use and we propose that the homonymy be removed by emending the stem of the junior name from DOLICHOPOD- to DOLICHOPODA-, thereby changing the gryllopteran family-group name to DOLICHOPODAINI, while leaving the dipteran name (DOLICHOPODIDAE Latreille, 1809) unaltered.

6. 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 *Dolichopoda* Bolivar, 1880 (Grylloptera) is DOLICHOPODA-;
- (2) to place on the Official List of Generic Names in Zoology the name *Dolichopoda* Bolivar, 1880 (gender: feminine), type species by monotypy *Gryllus (Tettigonia) palpata* Sulzer, 1776 (Grylloptera);
- (3) to place on the Official List of Specific Names in Zoology the name *palpata* Sulzer, 1776, as published in the binomen *Gryllus (Tettigonia) palpata* (specific name of the type species of *Dolichopoda* Bolivar, 1880) (Grylloptera);
- (4) to emend the entry on the Official List of Family-Group Names in Zoology for the name DOLICHOPODIDAE Latreille, 1809 to record that it was first published in the correct form by Agassiz (1846) (Diptera);
- (5) to place on the Official List of Family-Group Names in Zoology the name DOLICHOPODAINI Brunner von Wattenwyl, 1888, type genus *Dolichopoda* Bolivar, 1880 (spelling emended by the ruling in (1) above) (Grylloptera);

- (6) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name DOLICHOPODINI Brunner von Wattenwyl, 1888 (spelling emended to DOLICHOPODAINI by the ruling in (1) above) (Grylloptera).

## References

- Agassiz, L.** 1846. *Nomenclatoris zoologici index universalis, nomina systematica classium, ordinum, familiarum et generum animalium omnium ...* 393 pp. Soloduri.
- Allegrucci, G., Caccone, A., Cesaroni, D. & Sbordoni, V.** 1992. Evolutionary divergence in *Dolichopoda* cave crickets: a comparison of single copy DNA hybridization data with allozymes and morphometric distances. *Journal of Evolutionary Biology*, **5**: 121–148.
- Beier, M.** 1955. Embioidea und Orthopteroidea. *Bronns Klassen und Ordnungen des Tierreichs*, Band 5, Abteilung 3, Buch 6. 304 pp.
- Bickel, D.J. & Dyte, C.E.** 1986. Family Dolichopodidae. Pp. 393–418 in Evenhuis, N. (Ed.), *Catalog of Australasian and Oceanian Diptera*. Bishop Museum, Honolulu.
- Bolivar, M.J.** 1880. Note sur les locustiens cavernicoles d'Europe. *Annales de la Société Entomologique de France*, (5)**10**(1): 71–72.
- Brunner von Wattenwyl, C.** 1888. Monographie der Stenopelmatiden und Gryllacriden. *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wein*, **38**: 247–394.
- Caccone, A. & Powell, J.R.** 1987. Molecular evolutionary divergence among North American cave crickets II. DNA-DNA hybridization. *Evolution*, **41**: 1215–1238.
- Chopard, L.** 1931. Biospéologica LVI–8, Campagne spéléologique de C. Bolivar et R. Jeannel dans l'Amérique du Nord (1928), Orthoptères. *Archives de Zoologie Expérimentale et Générale*, **71**: 389–402.
- Dyte, C.E.** 1975. Family Dolichopodidae. Pp. 212–258 in Delfinado, M.D. & Hardy, D.E. (Eds.), *A catalog of the Diptera of the Oriental Region*, vol. 2. University of Hawaii, Honolulu.
- Dyte, C.E. & Smith, K.V.G.** 1980. Family Dolichopodidae. Pp. 443–463 in Crosskey, R.W. (Ed.), *A catalog of the Diptera of the Afrotropical Region*. British Museum (Natural History), London.
- Foote, R.H., Coulson, J.R. & Robinson, H.** 1965. Family Dolichopodidae. Pp. 482–530 in Stone, A., Sabrosky, C.W., Wirth, W.W., Foote, R.H. & Coulson, J.R. (Eds.), *A catalog of the Diptera north of Mexico*. Agriculture Handbook No. 276. United States Department of Agriculture, Washington D.C.
- Harz, K.** 1969. *The Orthoptera of Europe*, vol. 1. 749 pp. Junk, The Hague.
- Hubbell, T.H.** 1936. A monographic revision of the genus *Ceuthophilus* (Orthoptera, Gryllo-lacrididae, Rhaphidophorinae). *University of Florida Publication, Biological Science Series*, **2**(1): 1–551.
- Hubbell, T.H. & Norton, R.M.** 1978. The systematics and biology of the cave-crickets of the North American tribe Hadenoecini (Orthoptera Saltatoria: Ensifera: Rhaphidophoridae: Dolichopodinae). *Miscellaneous Publications, Museum of Zoology, University of Michigan*, **156**: 1–124.
- Karny, H.H.** 1929. Phylogenetische und tiergeographische Erwägungen zur Systematik der Rhaphidophorinen (Orth. Fam. Gryllacridae). *Archiv für Klassifikatorische und Phylogenetische Entomologie* **1**(2): 57–76.
- Latreille, P.A.** 1796. *Précis des caractères génériques des insectes, disposés dans un ordre naturel*. 179 pp. Paris.
- Latreille, P.A.** 1802. *Histoire naturelle, générale et particulière des crustacés et des insectes*, vol. 3. xii, 13–467 pp. Paris.
- Latreille, P.A.** 1809. *Genera crustaceorum et insectorum secundum ordinem naturalem in familias disposita, iconibus exemplisque plurimis explicata*, vol. 4. 399 pp., 4 pls. Paris & Strasbourg.
- Latreille, P.A.** 1810. *Considérations générales sur l'ordre naturel des animaux composant les classes des crustacés, des arachnides et des insectes avec un tableau méthodique de leurs genres disposés en familles*. 444 pp. Paris.

- Linnaeus, C.** 1758. *Systema Naturae*, Ed. 10, vol. 1. 824 pp. Salvii, Holmiae.
- Loew, H.** 1862. Monographs of the Diptera of North America, part 1. *Smithsonian Miscellaneous Collections*, **6**: 1–246.
- Negrobov, O.P.** 1987. On the system and phylogeny of flies of the family Dolichopodidae. *Entomological Review*, **66**: 16–20.
- Negrobov, O.P.** 1991. Family Dolichopodidae. Pp. 11–139 in Soós, A. & Papp, L. (Eds.), *Catalogue of Palearctic Diptera*, vol. 7 (Dolichopodidae-Platypezidae). Elsevier, New York.
- Robinson, H.** 1970a. Family Dolichopodidae. Pp. 1–92 in Papavero, N. (Ed.), *A catalogue of the Diptera of the Americas south of the United States*, part 40. Museu de Zoologia, Universidade São Paulo, Brazil.
- Robinson, H.** 1970b. The subfamilies of the family Dolichopodidae in North and South America (Diptera). *Papéis Avulsos de Zoologia*, **23**(6): 53–62.
- Robinson, H. & Vockeroth, J.R.** 1981. Dolichopodidae. Pp. 625–639 in McAlpine, J.F., Peterson, B.V., Shewell, G.E., Tesky, H.J., Vockeroth, J.R. & Wood, D.M. (Eds.), *Manual of Nearctic Diptera*, vol. 1. Agriculture Canada Monograph No. 27.
- Sabrosky, C.W., Thompson, F.C. & Evenhuis, N.L.** 1999. Family-group names in Diptera and bibliography. *Myia*, **10**: 1–532.
- Sbordoni, V., Giuliana, A., Caccone, A., Carchini, G. & Cesaroni, D.** 1987. Microevolutionary studies in Dolichopodinae cave crickets. Pp. 515–540 in Baccetti, B.C. (Ed.), *Evolutionary biology of Orthopteroid insects*. Wiley, New York.
- Sulzer, J.H.** 1776. *Abgekürzte Geschichte der Insecten Nach dem Linnaeischen System*. 274 pp., 32 pls. Steiner, Zurich.
- Ulrich, H.** 1981. Zur systematischen gliederung der dolichopodiden. *Bronner Zoologische Beiträge*, **31**: 385–402.
- Vickery, V.R. & Kevan, D.K. McE.** 1983. Orthopteroid insects of Canada and adjacent Regions. *Lyman Entomological Museum and Research Laboratory Memoirs*, **13**: 1–1467.
- Willemse, F.** 1984. Catalogue of the Orthoptera of Greece. Fauna Greece. *Fauna Graeciae*, **1**: 1–275.

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