

SOME SPECIFIC HOMONYMS IN MAYFLIES (Ephemeroptera)

MICHAEL D. HUBBARD

Laboratory of Aquatic Entomology, Florida A&M University,
Tallahassee, Fl. 32307 and Department of Biological Science,
Florida State University, Tallahassee, Fl. 32306

ABSTRACT

Five junior specific homonyms in mayflies (Ephemeroptera) of the genera *Baetis*, *Cloeon*, and *Ecdyonurus* are replaced with new names. They are: *Cloeon peterseni* NEW NAME for *Cloeon brunneum* Esben-Petersen, *Baetis murphyi* NEW NAME for *Baetis melleus* Needham and Murphy, *Baetis quebecensis* NEW NAME for *Baetis cingulatus* McDunnough, *Cloeon kimminsi* NEW NAME for *Cloeon viride* Kimmins, and *Ecdyonurus indicus* NEW NAME for *Ecdyonurus subfuscus* Kimmins.

During the course of continuing work on a card catalog of the Ephemeroptera at Florida A&M University, several specific homonyms in mayflies have been discovered. The International Code of Zoological Nomenclature requires that species-group junior homonyms be rejected and that the rejected homonym be replaced. In this paper I propose new names for five such homonyms.

Rambur (1842) described *Cloeon* (= *Cloë*) *brunneum* [= *Heptagenia lateralis* (Curtis)] from Spain. Later Esben-Petersen (1909) described a new species from Argentina as *Cloeon brunneum*. This name is a junior primary homonym of *Cloeon brunneum* Rambur. I therefore propose the NEW NAME *Cloeon peterseni* for *Cloeon brunneum* Esben-Petersen, nec Rambur.

Curtis (1834) described *Baetis melleus* (spelled *mellea*) [= *Potamanthus luteus* (Linnaeus)] from Britain. Later Needham and Murphy (1924) described a species from Argentina and Peru, *Baetis melleus*. *Baetis melleus* Needham and Murphy is therefore a junior primary homonym of *Baetis melleus* Curtis. I propose the NEW NAME *Baetis murphyi* for *Baetis melleus* Needham and Murphy, nec Curtis.

Stephens (1835) described *Baetis cingulatus* (spelled *cingulata*) [= *Habrophlebia fusca* (Curtis)] from Britain. McDunnough later (1925) described a new species, *Baetis cingulatus*, from Quebec. The latter name is a junior primary homonym of *Baetis cingulatus* Stephens. I propose the NEW NAME *Baetis quebecensis* for *Baetis cingulatus* McDunnough, nec Stephens.

Schneider (1885) described a new species, *Cloeon viride*, from the region near Breslau, in modern Poland. This species is probably a color variety of *Cloeon simile* Eaton (Keffermüller 1972). Later Kimmins (1947) described a new species from Calcutta, India, as *Cloeon viride* (spelled *viridis*). *Cloeon viride* Kimmins is thus a junior primary homonym of *Cloeon viride* Schneider. I propose the NEW NAME *Cloeon kimminsi* for *Cloeon viride* Kimmins, nec Schneider.

Stephens (1835) described *Baetis subfuscus* (spelled *subfusca*) from Hertford, England. Later Kimmins (1937) described *Ecdyonurus subfuscus* from Assam, India. *Baetis subfuscus* Stephens is considered to be a synonym (see Kimmins 1942) of *Ecdyonurus dispar* (Curtis). *Ecdyonurus subfuscus* Kimmins is therefore a junior secondary homonym. I propose the NEW NAME *Ecdyonurus indicus* for *Ecdyonurus subfuscus* Kimmins, nec Stephens.

LITERATURE CITED

- Curtis, J. 1834. Descriptions of some nondescript British species of May-flies of anglers. Lond. Edinb. Philos. Mag. J. Sci., 3rd ser., 4:120-125, 212-218.
- Esben-Petersen, T. 1909. New Ephemeroidea from Denmark, Arctic Norway and the Argentine Republic. Deutsch. Entomol. Z., 1909:551-556.
- Keffermüller, M. 1972. *Badania nad fauną jętek* (Ephemeroptera) Wielkopolski. V. Pol. Pismo Entomol., 42:527-533.
- Kimmins, D. E. 1937. Some new Ephemeroptera. Ann. Mag. Nat. Hist., ser. 10, 19:430-440, 1 pl.
- . 1942. Notes on Ephemeroptera. The Entomologist, 75:121-125.
- . 1947. New species of Indian Ephemeroptera. Proc. R. Entomol. Soc. Lond. (B), 16:92-100.
- McDunnough, J. 1925. The Ephemeroptera of Covey Hill, Que. Trans. R. Soc. Can., 3rd ser., 19:207-223, 1 pl.
- Needham, J. G., and H. E. Murphy. 1924. Neotropical mayflies. Bull. Lloyd Libr. no. 24, Entomol. ser. no. 4:1-79.
- Rambur, J. P. 1842. Histoire naturelle des insectes néuroptères. p.:298.
- Schneider, W. G. 1885. Verzeichniss der Neuropteren Schlesiens. Z. Entomol., Breslau, N.F., 10:17-32.
- Stephens, J. F. 1935. Illustrations of British entomology. Mandibulata, 6:60,64.

ACKNOWLEDGMENTS

Authorities at the British Museum have informed me that Mr. D. E. Kimmins is no longer active in entomology and suggested that I propose new names for his species. I would like to thank Dr. William L. Peters for advice and use of facilities at the Laboratory of Aquatic Entomology, Florida A&M University. This paper has benefited from critical comments from W. L. Peters and G. F. Edmunds. Rose Simmons typed the manuscript. This work was supported by a grant from the Cooperative State Research Service, U.S.D.A., P.L. 86-106, to Florida A&M University, W. L. Peters, principal investigator.