

Taxonomic Notes
on the Genus *Adenophlebiodes* Ulmer
(Ephemeroptera : Leptophlebiidae)

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The genus *Adenophlebiodes* was erected by ULMER (1924) for the single species *A. ornata* ULMER which he had described earlier from Cameroons as *Adenophlebia ornata* (1915). No additional species have been placed in the genus.

CRASS (1947) has named the genus *Euphlebia* on the basis of a single species, *E. bicolor*, from Natal. A comparison of the description and figures given by ULMER (1915) with those given by CRASS (*op. cit.*) leaves no doubt in my mind that the genus *Euphlebia* CRASS must fall as a synonym of *Adenophlebiodes* ULMER. The small venational differences are not of generic significance. The species described by CRASS is apparently distinct from *A. ornata* and is herein regarded as a valid species. CRASS has given excellent figures of the nymphs of this genus.

M.-L. VERRIER (1951) has recently described a mayfly from the Ivory Coast as *Habrophlebia delamarei*. From the figure it is apparent to me that this species is not *Habrophlebia*, but instead it is closely related to *Adenophlebiodes ornata*. In ULMER's key to the genera of Leptophlebiidae (Peking Nat. Hist. Bull., 7:201-204; 1933) the genus *Habrophlebia* is separated from *Adenophlebiodes* by the fact that in the former the claws of each pair of legs are dissimilar, one being blunt, the other pointed and hooked, while in the latter genus both are pointed and hooked. This feature is not mentioned in the description given by VERRIER nor can it be ascertained with certainty from the figure, although it appears that both claws are hooked and pointed.

The venation of the forewings appears to be typical of *Adenophlebiodes* rather than *Habrophlebia*. Neither the hind wings nor the genitalia are figured.

The synonymy of this genus is thus as follows.

Genus ADENOPHLEBIODES ULMER.

Genotype *ornata* (ULMER) 1924, *Konowia*, 3:33-35.

Euphlebia GRASS, genotype *bicolor* GRASS, 1947, *Ann. Natal Mus.*, 11:104-108, figs. 37-38, new synonymy.

1. *Adenophlebiodes ornata* (ULMER).

Adenophlebia ornata ULMER, 1915, *Arch. für Naturg.*, 81:13-14, figs. 12-14.

2. *Adenophlebiodes bicolor* (GRASS), new combination.

Euphlebia bicolor GRASS, 1947, *Ann. Natal Mus.*, 11:104-106, figs. 37-38.

3. *Adenophlebiodes delamarei* (VERRIER), new combination.

Habrophlebia delamarei VERRIER, 1951, *Bull. Soc. Ent. France*, 56:45-47, 1 fig.

It is possible that some of the African species that have been placed in *Adenophlebia* by NAVAS (various papers) may possibly belong to *Adenophlebiodes* but in the absence of types it is impossible to consider them at this time.