## ON SOME EUROPEAN LEPTOPHLEBIIDAE

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Summary. In Europe, the family Leptophlebiidae includes seven genera. Two of them present high taxonomical problems: Habrophlebia Eaton and Habroleptoides Schöenemund.

According to the main important works of Peters and Edmunds /1970/ and Peters /1975/ the validity of these two genera is confirmed and they are regarded as close but separate.

The status of the following species is discussed: Habroleptoides auberti Bianch., H. berthelemyi Thomas, H. ner-vulosa Etn., Habrophlebia umbratilis Etn.

The male imago of <u>H</u> auberti from the Swiss Jura is redescribed in comparison with <u>H</u> berthelemyi from the French Pyrenees. These two species are well distinct from <u>H</u> modesta Hag by the shape of the first article of the male genital forceps, which possesses a median convex process. Furthermore, <u>H</u> auberti and <u>H</u> berthelemyi show some important differences in their geographical and ecological habits.

If <u>H</u>. <u>auberti</u> is found until 1,400 m and often in the same biotope as <u>H</u>. <u>modesta</u>, on the other hand, <u>H</u>. <u>berthe-lemyi</u> may occur at altitude of over 2,000 m in rivers arose from high altitude lakes, and scarcely live in the same localities as <u>H</u>. <u>modesta</u> /Thomas 1968/.

Concerning <u>H\_ nervulosa</u> and <u>H\_ umbratilis</u>, Eaton described these two species in 1884 without any drawings, this caused much subsequent confusion.

A figure of a paralectotype of <u>H. nervulosa</u> was published in 1960 by Kimmins. After verification of this specimen as well as the lectotype, this species belongs to the genus <u>Habroleptoides</u>.

H. umbratilis was redescribed by Biancheri in

1954 from material caught in the topotype. For her, this species is related to the genus <u>Habroleptoides</u>. Kimmins published in 1960 a figure of a paralectotype, which is a <u>Habrophlebia</u>. After verification of the lectotype, this one is without any doubt conformed to Biancheri's species, i. e. it is a <u>Habrole-ptoides</u>!

Kimmins' paralectotype belongs to another species / Habrophlebia eldae sp.n., in prep./ and its status will be discussed later by Jacob and Sartori /in prep./.

Data about the distribution of  $\underline{H}_{\bullet}$  nervulosa in Portugal and Spain are rather too fragmentary. The same problem arises for  $\underline{H}_{\bullet}$  umbratilis which presence out of the Italian Peninsula needs to be confirmed.

## Short bibliography

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