

First records of mayflies from Bas-Rhin (France) [Ephemeroptera]

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14 species of mayflies were recorded from Bas-Rhin (NE France), where no earlier data are available. *Brachycercus harrisellus* is new for NE France.

Premières citations d'Ephémères du Bas-Rhin (NE France) [Ephemeroptera]

Mots clés : Ephéméroptères, Faune de France, NE France.

14 espèces d'Ephémères sont citées du département du Bas-Rhin d'où aucune donnée antérieure n'est disponible. *Brachycercus harrisellus* est nouveau pour le Nord-Est de la France.

As far as known, no records of mayflies from Bas-Rhin department (France) were ever published (THOMAS & MASSELOT, 1996). The list below is a first small contribution to our knowledge on Ephemeroptera and refers to only three localities at or nearby the border to Rhineland-Palatinate (SW-Germany).

Station 1

Stream : the Halbmühlbach in Haguenau forest, near the road D 344 Soufflenheim to Betschdorf (48°53' N, 7°56' E). Elevation : 130 m a. s. l.; width : 5-8 m; sandy substratum and dead wood.

Station 2

Stream : the Sauerbach at Tannenbrück (49°03' N, 7°46' E). Elevation : 200 m a. s. l.; width : 5-10 m; sandy and stony substratum.

Station 3

Stream: the Sauerbach downstream Hirschthal (49°03'10'' N, 7°46' E), no man's land between France and Germany. Elevation : 205 m a. s. l.; width : 5-10 m, sandy substratum, few small stones, wooden debris in lentic parts, some submersed vegetation.

Leptophlebiidae

Habrophlebia fusca (Curtis, 1834)

Station (= St.) 1, 06-VI-1997 : 1 L.

Paraleptophlebia cincta (Retzius, 1783)

St. 2, 06-VI-1997 : 1 L.

Paraleptophlebia submarginata (Stephens, 1835)

St. 3, 05-V-1997 : 2 L; 11-VII-1996 : 1 L.

Ephemeridae

Ephemera danica Müller, 1764

St. 1, 06-VI-1997 : 3 L. St. 3, 05-V-1997 : 1 L.

Caenidae

Brachycercus harrisellus Curtis, 1834

St. 3, 11-VII-1996 : 2 L.

B. harrisellus is recorded for the first time in NE France. *B. harrisellus*, common in the Northern Lowlands and in the Danube catchment basin of Germany is extremely rare in its central parts. This record from the German border has been published for the German part, too (HAYBACH, 1996). A wider distribution within Bas-Rhin is expected.

From the zoogeographical point of view this species belongs to the siberian species group (JACOB, 1972), which resettled Europe from the East after the last glacial period. Larvae live on solid mud layers in lentic parts, mainly of lowland-streams. Additional notes concerning their ecology and morphological adaptations to this special habitat were given by LANDA (1957).

Ephemerellidae

Serratella ignita (Poda, 1761)

St. 1, 06-VI-1997 : 2 L. St. 2, 06-VI-1997 : 5 L. St. 3, 05-V-1997 : 1 L ; 11-VII-1996 : 8 L.

Baetidae

Baetis fuscatus (Linné, 1761)

St. 3, 05-V-1997 : 2 L.

Baetis rhodani (Pictet, 1845)

St. 1, 06-VI-1997 : 1 L. St. 2, 06-VI-1997 : 12 L. St. 3, 05-V-1997 : 6 L ; 06-VI-1997 : 4 L.

Baetis vernus Curtis, 1834

St. 1, 06-VI-1997 : 1 L. St. 3, 05-V-1997 : 4 L ; 06-VI-1997 : 8 L ; 11-VII-1996 : 1 L.

Centroptilum luteolum (Müller, 1776)

St. 3, 05-V-1997 : 3 L ; VII-1996 : 2 L.

Heptageniidae

Ecdyonurus macani Thomas & Sowa, 1970

St. 3, 05-V-1997 : 2 L (reared to one male imago and one female imago : 08-V-1997).

Heptagenia flava Rostock, 1878

St. 3, 06-VI-1997 : 1 L ; 11-VII-1996 : 17 L.

Heptagenia longicauda (Stephens, 1836)

St. 1, 06-VI-1997 : 7 L (lentic, wooden debris).

Heptagenia sulphurea (Müller, 1776)

St. 1, 06-VI-1997 : 4 L. St. 2, 06-VI-1997 : 1 M, 5 L. . St. 3, 05-V-1997 : 8 L ; 06-VI-1997 : 1 L ; 11-VII-1996 : 12 L.

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