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1836) (Trichoptera: Uenoidae)

Henri TACHET & John C.MORSE

FISCHER (1970) noted the occurrence in France of the fontaine de Jouvence is located a few kilometers Thremma fontium (VALLOT, 1836). This species, from Dijon (Department of Côte d'Or, France), a city described by VALLOT as Phryganea fontium, was with a University where there always have been considered by ULMER (1955) as belonging to the genus hydrobiologists. Thremma, although with some reservations. This species is absent from the list of the French Trichoptera course of the Suzon River about 15 kilometers from of BERLAND and MOSELY (1936), and it does not Dijon (see above) at an elevation of about 400 m. The appear in the list of the European Trichoptera water of the fontaine deJouvence is very hard, forming (BOTOSANEANU & MALICKY, 1978). Wishing to bring accumulations of calcareous tufa. We know now that up to date the list of French Trichoptera, we have Thremma occurs in the crystalline Massifs and in soft wanted to clarify the situation. We have considered that water. Moreover, especially in France, Thremma the best means was to go through the original always occurs above 500 m, often at higher elevations, description. VALLOT (1836) wrote:

petits cailloux réunis par des filets soyeux, que la larve these areas. Thus it is impossible that the species se construit une demeure aquatique fixe et immobile, described by VALLOT is a Thremma. appliquée contre les pierres latérales et le fond des bassins de la fontaine de Jouvence. La forme case or retreat of the larva does not correspond to that irrégulière de ces petites habitations n'y ferait of a Thremma case. VALLOT described "small piles of soupconner aucun habitant. On les prendrait en effet gravel" and cases or retreats made "with grains of sand. pour graviers, de petits amas de irrégulièrement et que l'on pourrait rapporter à des case of Thremma, which is always portable, except sortes de concrétions. Mais si on les détache de la during pupation, and made of very small and similarpierre, on les trouve hémisphériques et renfermant soit size mineral particles. Moreover the case of Thremma une larve, soit une chrysalide, suivant l'époque à looks like a shell of Ancylus, not a pile of gravel. Thus. laquelle on fait l'observation. ... Voûte hémisphérique, again, the description does not apply to a Thremma. On ovale, formée de grains de sable, de petites pierres the other hand this description could apply to the appliquées fortement à la surface des pierres saddle-case of a glossosomatid, an oval dome of sand immergées, et offrant de petites dimensions. Longueur and small pebbles [e.g., WARINGER & GRAF 1997, de 5 à 10 millimètres (2 à 4 lignes); largeur de 5 p.21, figs 13a, 13b, 14, cases of Agapetus fuscipes millimètres (2 lignes). ... Aussi j'appellerai celle sur Curtis and Synagapetus krawanyi (ULMER)], or the laquelle je viens de donner des détails, Phryganea fixed retreat of a psychomylid (e.g. WIGGINS 1996, fontium. ... M.Pictet a publié un Mémoire très- figs. 10.1E, 10.4F, retreats of Lype sp. and Tinodes intéressant sur les larves de Némoures (c'est ainsi qu'il sp.). Glossosomatids occur in springs, brooks, and appelle les Phryganes) ; je n'y ai point trouvé l'espèce small rivers; some species (for example Synagapetus dont je parle. »

bottom of the basin of the Fountain of Youth, the larva of running waters and lentic habitats. If Phryganea builds a fixed and stationary aquatic dwelling with fontium were a glossosomatid, we should not usually small grains of sand and with small pebbles joined expect larvae in the "fixed" version of the case, only together with silk thread. Because their shape is prepupae and pupae. If the species were a psychomyiid, irregular, these small dwellings seem uninhabited. we should not expect the shape to be "hemispherical." They look like small piles of gravel, irregularly Unfortunately, therefore, the description provided by distributed, which look like some kind of concretion. VALLOT is insufficient to identify the family, a fortiori However, if we pick them up from the stone, they the genus or the species. appear hemispheric containing either a larva or a pupa, according to the date [or season, in the life cycle] of the this species and the morphology of ist case, the observation. ... Hemispherical vault, oval, formed with description of VALLOT (1836) indicated clearly that grains of sand, small pebbles firmly applied to the Phryganea fontium is not a Thremma. Possibly, it is a surface of the immersed stones, and with small glossosomatid or a psychomyiid, but it is impossible to dimensions: length from 5 to 10 millimeters (2 to 4 identify further. Thus we suggest that this species name lines), width 5 millimeters (2 lines). ... Thus I will be suppressed as a Nomen Dubium, in the list of name this larva/case [in the French text "this" is Trichoptera and more especially from the Trichoptera feminine, such that Vallot is referring to either the World Checklist (MORSE, 2001).

larva or the case!] about which I have given some details, Phryganea fontium. ... M.Pictet has published a Considerations about Thremma fontium (Vallot, very interesting thesis about the larvae of Némoures (Pictet's name for caddisflies); but I do not find [in his thesis] the species described above."

There is no drawing with this description.

There have been no other reports of this species In the Trichopterorum Catalogus (page 282), since its original description. This is strange because

The fontaine de Jouvence is located on the in the Massif Central and in the Pyrénées (GIUDICELLI, "C'est avec des petits grains de sable et des 1971; MALICKY, 1983). Burgundy is clearly out of

The description of the "fixed and stationary" déposés small pebbles." This description does not fit that of the dubitans MCLACHLAN) occur in calcareous streams Proposed translation : « On the walls and the (VAILLANT, 1967). Psychomyiids live in a wide variety

Considering the ecology and distribution of

Acknowledgement. We thank Dr. Martine Chauney- Books reviews Bouillot, Municipal Library of Dijon (Côte d'Or, France), who has procured for us copies of the original Atlas of plants and animals in Baltic Amber. By description by Vallot, and different publications about the fontaine de Jouvence.

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Correspondence: H.Tachet, UMR CNRS 5023, Écologie des Hydrosystèmes fluviaux, 43 Bd. 11 nov. recent literature. But besides the scientific content of 1918, F-69622 Villeurbanne Cedex.

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Wolfgang Weitschat and Wilfried Wichard. 256 pages, hardbound, ISBN 3-931516-94-6. Verlag Dr. Friedrich Pfeil, München, 2002.

This book is a translation by Maryann review in BRAUERIA 26 on page 43. The English version is largely identical with the German one, with the recent literature and some colour photographs added. Some photographs were replaced by others. The book gives an excellent survey on the present state of knowledge of Amber fossils, with an instructive text and drawings and photographs of outstanding quality. It will not only delight everyone interested in amber and its fascinating inclusions but also serves as an authoritative reference book to the scientific community. Ma

Biological Atlas of aquatic insects. By W. Wichard, W. Arens and G. Eisenbeis and a foreword by Vincent H. Resh. 339 pages, hardbound, ISBN 87-88757-60-9. Apollo Books, Stenstrup, Denmark 2002.

This book is another translation of an earlier book in German, Atlas zur Biologie der Wasserinsekten, published 1995 by Gustav Fischer Verlag, Stuttgart. It consists, in addition to the text, of about 900 scanning electron photographs of excellent quality. The text is presented in one-page chapters on particular topics such as The wood-boring larvae of Asthenopus (Polymitarcidae), Function of the pygidial glands of dytiscid beetles, Osmoregulatory adaptation of limnephilid larvae, Spiracular gills of the blackfly pupae (Simuliidae), and the like, with a selection of six details may be found in the review of the German der version in BRAUERIA 23 on page 4. Information on topics, particularly respiration, on osmoregulation, hydrodynamics and feeding, were scattered in the literature if they existed at all; here they are collected together in one volume. Many schematic drawings are added. The book may be immediately used for teaching and as a reference source. The text is updated in some chapters according to the references of the book, studying the pictures alone is an aesthetic pleasure. Ma.

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