

BRAUERIA (Lunz am See, Austria) 30:26-27 (2003)

The larva of *Limnephilus hirsutus* (Pictet, 1834).

Fernanda CIANFICCONI, Piero SALERNO

Abstract – The larva of *Limnephilus hirsutus* is illustrated.

Larvae and pupae of *Limnephilus* sp., collected in May 1998 from a disused drinking trough near Colfiorito Marsh (Central Italy, PG) were reared in the laboratory (Cianficconi et al., 2000; 2002). Males and females of *Limnephilus hirsutus* which emerged in July allowed us to identify the larva of this species hitherto unknown and not described in the "Guida dei Tricotteri italiani" (MORETTI 1983). Larvae of this species have also been found in a sulphurous spring (Umbria: Acqua Solfa, M. Luiano, Gubbio, 400 m, PG, leg. Salerno, 1993).

This paper presents detailed drawings of the 5th instar larva (Figs. 1-16) and abdominal hook-plates of pupal exuvia (Figs. 17; 20) and also photographs of the larval cases.

The larva is 15 mm long. The sclerified parts are reddish brown. It is an omnivorous shredder (the gut contains organic debris from decomposing leaves and insect remains).

The larval case is 15-16 mm long and consists mainly of sand grains. It is slightly curved and narrower at the posterior end which is sometimes made of leaf fragments (Figs. 18-19).

Acknowledgement – We would like to express our gratitude to Angelo Speziale for the drawings of the larva.

References

CIANFICCONI F., CORALLINI C., MAZZERIOLI S., SALERNO P., 2000 – Palude di Colfiorito (Umbria, Perugia). I Tricotteri e i loro simbionti. - Boll. Assoc. Romana Entom., 55 (3-4): 45-66.

CIANFICCONI F., CORALLINI C., MAZZERIOLI S., SALERNO P., 2002 – Rassegna fotografica dei Tricotteri della Palude di Colfiorito. - In: E. Orsomando & M. Sensi (eds.), Studi sull'ambiente naturale degli Altipiani di Colfiorito, 3: 525-535.

MORETTI G.P., 1983 – Tricotteri. Guide per il riconoscimento delle specie animali delle acque interne italiane. - C.N.R. AQ/1/196, 19: 155 pp.

Address of the authors – Dipartimento di Biologia Animale ed Ecologia; Università di Perugia, Via Elce di Sotto – I - 06123 PERUGIA, Italy.

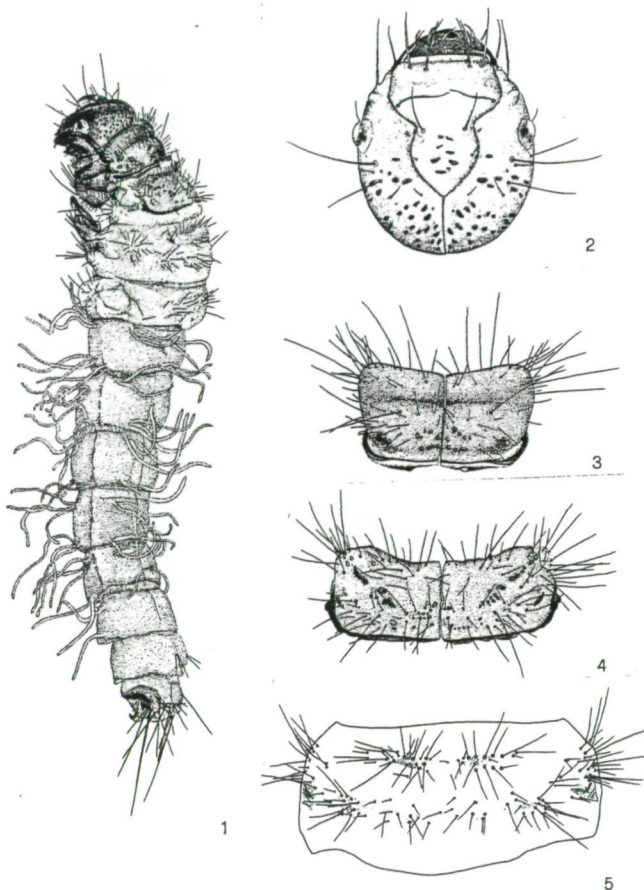
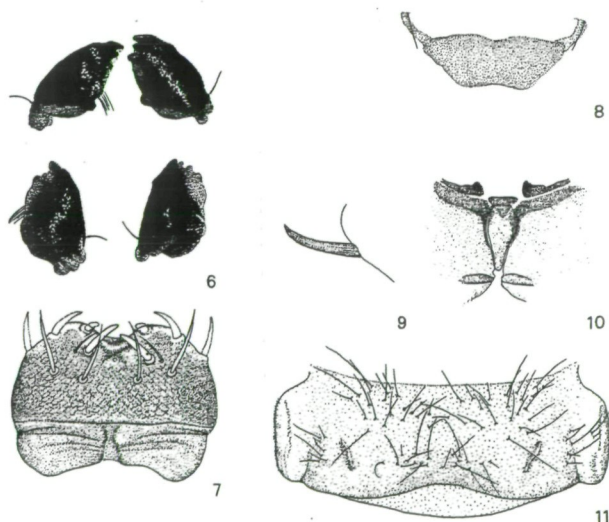


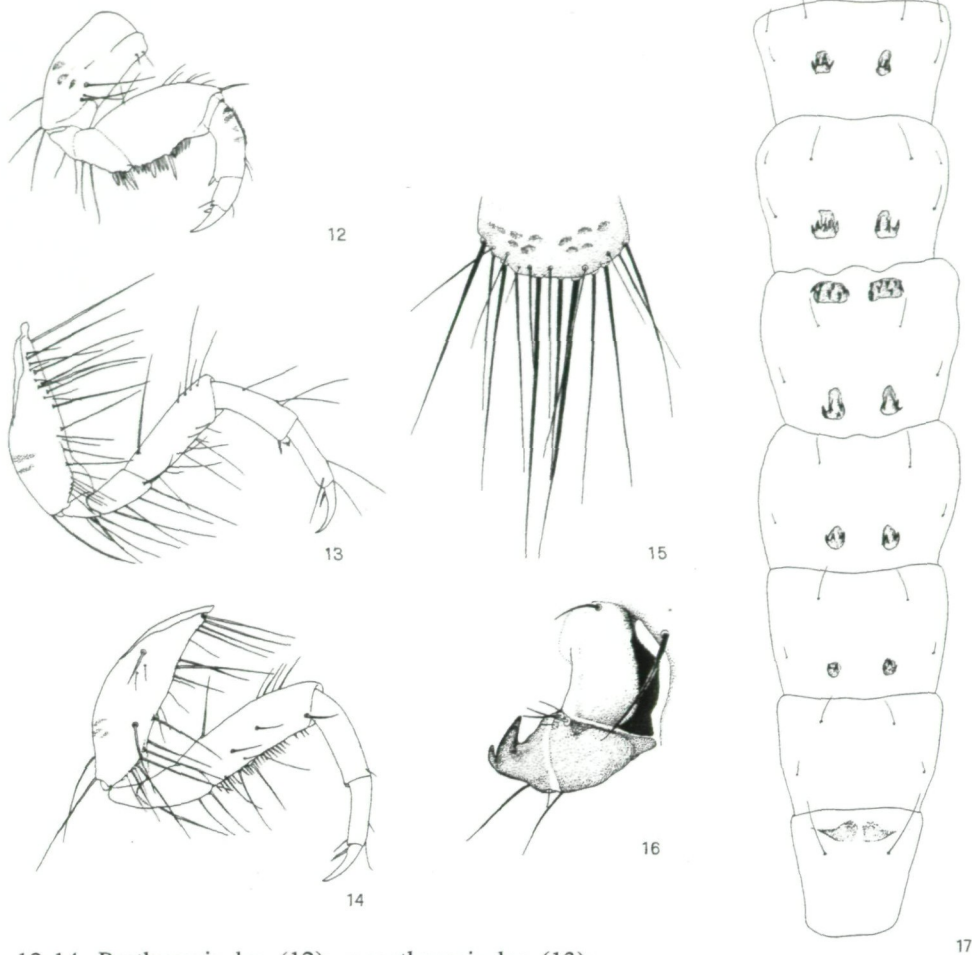
Fig. 1. *Limnephilus hirsutus*: larva (5th instar)

Figs. 2-5. Head dorsal view (2); pronotum (3); mesonotum (4); metanotum (5)



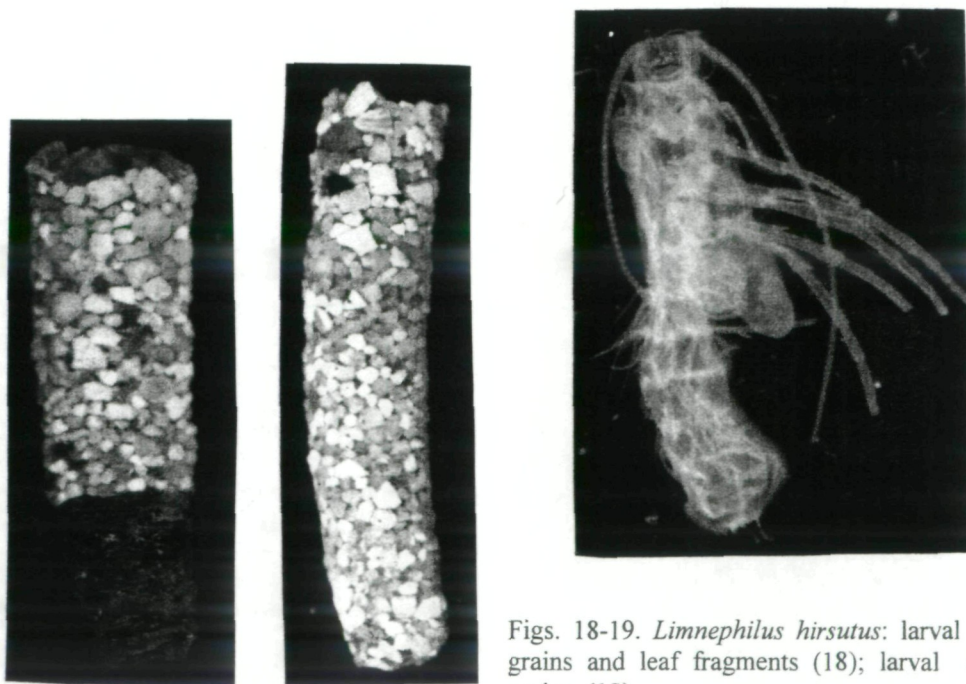
Figs. 6-7. Left and right mandibles (6); labrum (7)

Figs. 8-11. Prosternite (8); prosternal horn (9); gular sclerite (10); 1st abdominal segment, ventral view (11)



Figs. 12-14. Prothoracic leg (12); mesothoracic leg (13);
metathoracic leg (14).
Figs. 15-16. Anal sclerite (15); left anal claw (16)

Fig. 17. Abdominal hook-plates of pupal exuvia



Figs. 18-19. *Limnephilus hirsutus*: larval case with sand
grains and leaf fragments (18); larval case with sand
grains (19)

Fig. 20. Pupal exuvia from the laboratory

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Braueria](#)

Jahr/Year: 2003

Band/Volume: [30](#)

Autor(en)/Author(s): Cianficconi Fernanda, Salerno Piero

Artikel/Article: [The larva of *Limnephilus hirsutus* \(Pictet, 1834\). 26-27](#)