

Zeitschrift: Bollettino della Società ticinese di scienze naturali
Herausgeber: Società ticinese di scienze naturali
Band: 102 (2014)

Artikel: Brachyarthrum limitatum fieber (hemiptera: heteroptera: miridae) new to southern Europe
Autor: Dioli, Paride
DOI: <https://doi.org/10.5169/seals-1003040>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 18.03.2026

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

Brachyartrum limitatum Fieber (Hemiptera: Heteroptera: Miridae) new to Southern Europe

Paride Dioli

Museo Civico di Storia Naturale, Corso Venezia 55, I-20121 Milano

paridedioli@virgilio.it

Abstract: *Brachyartrum limitatum* Fieber 1858 was so far only recorded from Central and Northern Europe. Its presence in Southern Europe is herein documented based on a series of specimens housed in the collection of the Museo cantonale di storia naturale di Lugano. (Switzerland). The studied specimens were collected on the Monte Bré, a locality close to the Italian border, which let assume that *B. limitatum* is probably as well present in neighboring regions.

Key words: Insecta, Heteroptera, Miridae, Switzerland, Cantone Ticino

***Brachyartrum limitatum* Fieber (Hemiptera:Heteroptera:Miridae) in Canton Ticino, Svizzera, nuovo nell'Europa meridionale**

Riassunto: La specie era stata sin'ora trovata nel Centro e Nord Europa. La sua presenza nel Sud Europa è stata appurata dall'esame di una serie di esemplari conservati nella collezione del Museo cantonale di storia naturale di Lugano. Gli esemplari studiati furono raccolti in località Monte Bré che è molto vicina al confine italiano: pertanto è assai probabile una presenza anche nelle regioni del circondario.

Parole chiave: Insecta, Heteroptera, Miridae, Svizzera, Cantone Ticino

INTRODUCTION

The Heteroptera collection of the Museo cantonale di storia naturale di Lugano (MCSN) represents the fauna of true-bugs in the Cantone Ticino. The collection was built by different studies during the last 30 years by Joachim Otto, Rezbanyai Reser and Isabella Giacalone-Forini. Among the undetermined material, the mirid species *Brachyartrum limitatum* Fieber 1858 could be reported for the first time for the Southern part of the Alps: it was, so far, only known from Central and Northern Europe.

MATERIALS

CANTONE TICINO – “Lugano, MonteBrè-Ost, 835 m” (as in the original label), 21-30.6.1984, 4 spec. light-trap, leg. Rezbanyai Reser (MCSN).

Diagnosis

Brachyartrum is a monospecific genus (Aukema & Rieger 1999). It can be distinguished by males and females having thin and pale pubescence on dorsal surface (Fig. 1); the throat is short and oblique; eyes wide, tylus prominent; general coloration of legs pale; posterior tarsi with third segment longer as second segment; tibial thorns brown; rostrum exceeds the intermediate coxae.



Figure 1: *Brachyartrum limitatum* (foto P. Dioli)

Fieber (1858) in the original description says: "Ockergelblich, weisslich behaart. Leib, Kopf und Fühler schwarz. Nacken und Fühlerglied 4 rostroth. Schnabel gelb. Hüften weisslich. Schildgrund braun. Cuneus orange rötlich. Membran blassrauchbraun. Zellrippe bräunlich, die Binderippe und eine Winkelinie an derselben weiss. Corium ockergelblich. Schienbeine schwachbedornt. Klauenglied schwarz".

Redescription based on the studied material as followed:

Male: Dorsal coloration brown or blackish brown; ventral surface black.; head and antennae black; anterior part of pronotum yellowish; basal part of the cuneus yellowish or yellowish red; legs yellow or yellowish red; tibia with brown thorns; general body shape elongated; head 0.67 times as wide as width of pronotum; vertex almost as wide as eye; second antennal 1.5 times longer than width of pronotum and longer than third and fourth segments together. Length: 4.4 to 4.8 mm.

Female: Dorsal coloration yellowish or reddish brown; ventral surface black; head blackish, often pale colored medially; antennae and legs as in male; pronotum, and hemelytres monochrome; membrane brown greyish, veins yellowish grey; general body shape. oblong-oval; vertex slightly wider than eye; second antennal segment slightly longer than width of pronotum, and shorter than third and fourth together. Length: 4.3 to 4.8 mm.

General Distribution: The species was described from Bohemia (Fieber, 1858). According to Aukema and Rieger (1999) (Fig.2) it is documented from Austria, Byelorussia, Czech Republic, Denmark, Finland, France, Great Britain, Germany, Luxembourg, Moldavia, The Netherlands, Norway, Poland, Russia (North European Territory), Slovenia, Sweden, Switzerland (Northern parts), Ukraine. In Asia: Mongolia, O-Russia and West Siberia.

Its occurrence is very sparse (Wagner & Weber, 1964).

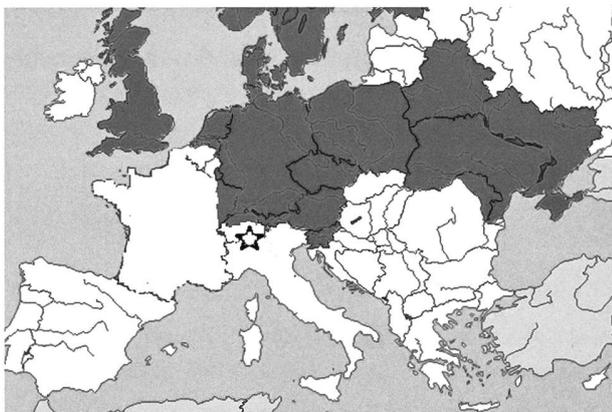


Figure 2: General distribution in Europe ("grey") and the new record ("star") in the Southern part of the Alps.

BIOLOGY AND ECOLOGY

Brachyarthrum limitatum lives on Salicaceae as *Populus tremula* Linnaeus (Göllner-Scheiding, 1972, Kerzhner, 1978) and *Populus laurifolia* Ledebour (Kerzhner, 1978). The adults in Great Britain were found in June and July, eggs hibernate, larvae, which hatch out in May or early June, are in the last instar grey with a distinct greenish tinge. (Southwood & Leston, 1959).

ACKNOWLEDGEMENTS

Thanks to Filippo Rampazzi, Director of the Museo cantonale di storia naturale di Lugano, Lucia Pollini Paltrinieri, Curator, for the loan of specimens and our colleague Denise Winiger (Natur-Museum Luzern,) for her valuable comments

REFERENCES

- Aukema B. & Rieger C. (Eds) 1999. Catalogue of the Heteroptera of the Palearctic Region Vol. 3. Cimicomorpha II. Miridae. The Netherlands Entomological Society. Amsterdam. pp. 576.
- Fieber F. X. 1858. Kriterien zur generischen Theilung der Phytocoriden (Capsini auct.). Wiener entomologische Monatschrift 2: 335-336.
- Göllner-Scheiding U. 1972. Beiträge zur Heteropteren-Fauna Brandenburgs. 2. Übersicht über die Heteropteren von Brandenburg. Veröffentlichungen Bezirksheimat Museum Potsdam 25/26: 5-39.
- Kerzhner I. M. 1978. Heteroptera of Saghalien and Kurile Islands. Trudy Biologo-Pochvvennogo Instituta. Dalnevost. Nauchogo Tsjentra Akademie Nauk AN SSSR, Vladivostok, new ser., 50: 31-57.
- Southwood T. R. E. & Leston D. 1959. Land and Water Bugs of the British Isles. Frederick Warne and Co., London. 436 pp.
- Stehlik J. L. 1978. New records of Heteroptera from Czechoslovakia. Acta Musei Moraviae 63: 107-110.
- Wagner E. & Weber H.H. 1964. Hétero-ptères Miridae. Faune de France 67: 1-592.