



Entomofauna

ZEITSCHRIFT FÜR ENTOMOLOGIE

Band 31, Heft 26: 405-412

ISSN 0250-4413

Ansfelden, 19. November 2010

First record of velvet ant *Smicromyrme tristis* LELEJ 1984 from Austria (Hymenoptera: Mutillidae: Smicromyrmini)

Esther OCKERMÜLLER & Arkady LELEJ

Abstract

The velvet ant *Smicromyrme tristis* LELEJ 1984 is recorded from the Eastern Austria for the first time. This is the most western record for this species. Its description, figures and the distribution map of Austria are given.

Key words: Mutillidae, velvet ants, *Smicromyrme tristis*, first record, Austria, Central Europe.

Introduction

During the identification of the mutillid material from Austria, which is deposited in the Museum of Linz, we discovered the *Smicromyrme* species, which was unknown from Austria. Since this species is newly recorded in Central Europe, the diagnosis and the description are given below.

***Smicromyrme (Smicromyrme) tristis* LELEJ 1984**

Smicromyrme (Smicromyrme) tristis LELEJ 1984: 82, figs 1, 8-10, ♂ [holotype - ♂, Central Kazakhstan, 10-30 km NEE from Derzhavinsk, 4.VII.1977, leg. V. Kazenas, deposited in Zoological Institute, St. Petersburg, examined].

Smicromyrme (Smicromyrme) tristis: LELEJ 1985: 233, figs 61, 9, 62, 7, 8, ♂.

Smicromyrme (Smicromyrme) tristis: LELEJ 2002: 72.

Description. ♂. Body length 4.2-10.5 mm. Head as in Fig. A. Mandible bidentate with strong subbasal ventral tooth. Ocelli medial size, diameter of anterior one equal to distance between anterior and posterior ocellus. Ratio of postocellar distance: oculocellar distance 0.5-0.6 times. Clypeus with weakly elevated median part and two preapical teeth. Flagellomere 2 almost two times flagellomere 1 and equal or slightly longer than flagellomere 3. Hind coxa mesally convex. Fore wing hyaline. Second abscissa of radial vein usually shorter than third abscissa and slightly thicker than anterior side of radial cell. Length of metasomal tergum 1 less than its maximal width. Genitalia as in Figs C, D. Metasomal tergum 2 densely punctate with distance between punctures less than puncture diameter, equal or more than diameter on disc. Antennae and legs black, mesosoma black with ferruginous-red pronotum, mesoscutum, mesoscutellum, and tegula; rarely metanotum ferruginous-red also. Body and legs with sparse pale setae which form fringe on posterior border of metasomal terga and sterna; mesoscutellum and tegula with subappressed brown setae.

♀ unknown.

Distribution. Russia (Orenburg region), Kazakhstan (Western, Central and Eastern), Ukraine (Odessa region, Zaporozhje region, Crimea), Austria (new record).

Biology. The males of *Smicromyrme tristis* have been collected in Western Kazakhstan on the flowers of *Euphorbia* sp. (Euphorbiaceae) (LELEJ 1985). The species inhabits steppe zone and occurs in Eastern Austria (Pannonian Territory and Southeastern Alpine Foreland) from June to August.

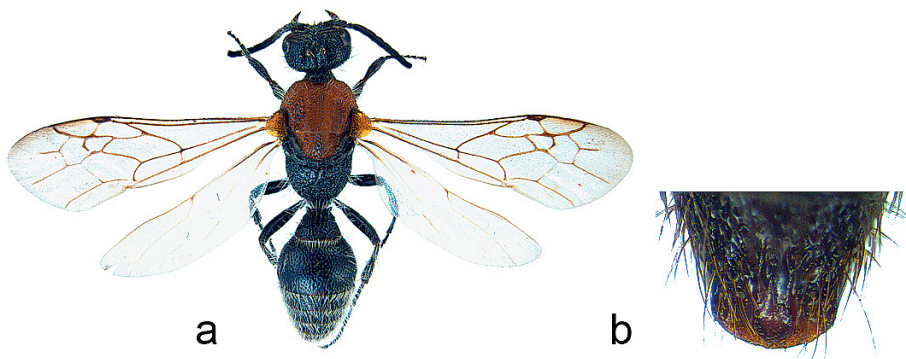


Fig. 1: *Smicromyrme tristis*: (a) Habitus; (b) Tergit 7, dorsal view.

Material examined: Lower-Austria, Stammersdorf, 28.7.1949, 1♂, leg. Kocourek / det. Lelej 2010; Oberweiden, 16° 50' E, 48° 18' N, 16.7.1986, 1♂, leg. Dollfuss / det. Lelej 2010; Falkenstein, Höhlenstein, 48° 43' N, 16° 35' E, 4.7.1999, 1♂, leg. Bregant E. / det. Ockermüller 2010; 7 km NE Krems, Gedersdorf, 11.7.2008, 1♂, leg. Halada & Kadlecová / det. Lelej 2010; 1 km E Poysdorf, 22.7.2009, 1♂, leg. Halada J. / det. Lelej 2010; Burgenland (South-), Oberhenndorf N Jennersdorf, 46° 59' N, 16° 08' E, 24.7.1996, 1♂, leg. Bregant E. / det. Ockermüller 2010; Burgenland (North-), Heidl N Nickelsdorf, 47°56' N, 17° 04' E, 6.6.1998, 2♂♂, leg. Bregant E. / det. Lelej 2010; the same place, 9.8.1998, 1♂, leg. Bregant E. / det. Ockermüller 2010; the same place, 31.7.1999, 1♂, leg. Bregant E., det. Lelej 2010; Zurndorfer Eichenwald, 47° 57' N, 17° 00' E, 2.8.1999, 1♂, leg. Bregant E. / det. Lelej 2010.

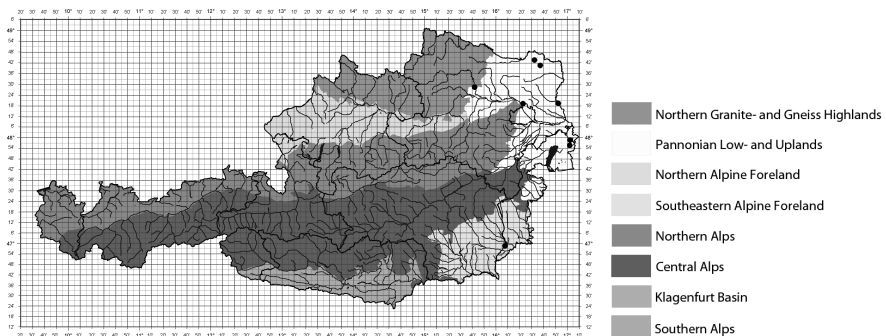


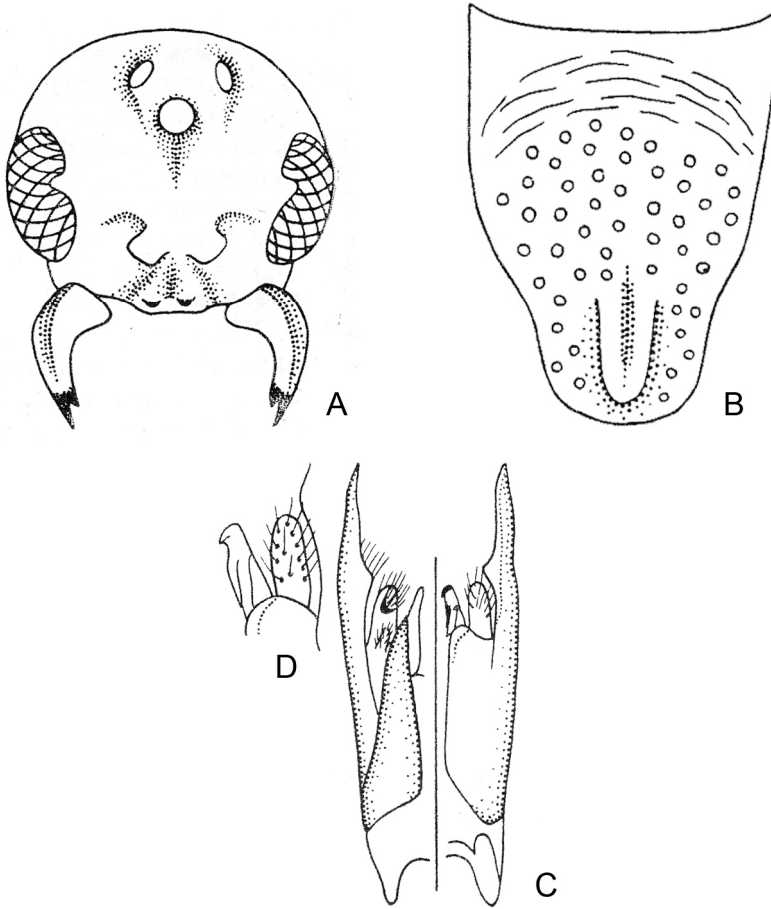
Fig. 2: Distribution map of Austria. Source: RABITSCH & ESSL 2009.

Acknowledgements

Our thanks are due to the collectors of the specimens: Miroslav Kocourek, Mag. Hermann Dollfuss, Eugen Bregant, Jiri Halada and Mrs. Kadlecová. We are in debt to Mag. Fritz Gusenleitner who willingly provided us with the collection.

References

- LELEJ A.S. (1984): New and little-known species of velvet ants of the genus *Smicromyrme* THOMSON (Hymenoptera, Mutillidae). – In: SAVTSHENKO E.N. (ed.), Taxonomy and zoogeography of insects. Kiev: 79-89, 4 pls. [In Russian].
- LELEJ A.S. (1985): Osy-nemki (Hymenoptera, Mutillidae) fauny SSSR i sopredel'nykh stran [The velvet ants (Hymenoptera, Mutillidae) of the USSR and neighbouring countries]. Leningrad: Nauka. 268 pp., 64 tables. [In Russian].
- LELEJ A.S. (2002): Catalogue of the Mutillidae (Hymenoptera) of the Palaearctic region. – Vladivostok: Dalnauka, 171 pp.
- RABITSCH W. (2009): Heteroptera (Wanzen). – In: RABITSCH W. & F. ESSL (Hrsg.), Endemiten – Kostbarkeiten in Österreichs Pflanzen- und Tierwelt. Naturwissenschaftlicher Verein für Kärnten, Klagenfurt und Umweltbundesamt, Wien, 617-624.



Figures A–D: *Smicromyrme tristis*, ♂, paratype: **(A)** head, frontal view; **(B)** metasomal tergum 7, dorsal view; **(C)** genitalia, left side – ventral view, right side – dorsal view; **(D)** volsella and penial valve, dorsal view.

Adresses of the authors:

Esther OCKERMÜLLER

3053 Laaben 161

Austria

E-mail: a0500736@unet.univie.ac.at

Arkady LELEJ

Russian Academy of Sciences

Far Eastern Branch

Institute of Biology and Soil Science

690022 Vladivostok-22

Russia

E-mail: lelej@ibss.dvo.ru

Entomofauna, Supplement 15 (2009)

Artbestand, Ökologie und Habitatwahl von Bienen ausgewählter Offenlebensräume im Lazovski Zapovednik (Ferner Osten Russland) (Hymenoptera, Apiformes)

Michael QUEST

In 2001, 2002 and 2003 the bee communities of naturally treeless habitats within a forest-dominated region in the Russian Far East were investigated for the first time. The study was carried out in the Lasovski Nature Reserve and adjacent areas in the south of the Sikhote-Alin mountain range in the Russian Far East east of Vladivostok. The region is characterised by species-rich broad-leaved and largely undisturbed mixed forest showing natural habitat dynamics. In this area the bee communities of naturally open habitats like floodplains, coastlines, sites above the timberline and isolated mountain tops within the broad-leaved forest were investigated. The present study shows the importance of natural dynamics in woodlands for the bee fauna. It is demonstrated that in contradiction to previous assumptions natural woodlands possess a rich and specialized bee fauna.....



**Ja, ich bestelle Exemplar(e)
"Michael QUEST, Entomofauna Suppl. 15"
zum Stückpreis von 30 € (zuzügl. Porto)**

Familienname

Vorname.....

Anschrift.....

Unterschrift.....

Bitte richten Sie Ihre Bestellung an folgende Adresse:

Maximilian Schwarz, Eibenweg 6, 4052 Ansfelden, Austria

Tel.: +43(0)732-307824;

E-Mail: maximilian.schwarz@liwest.at

www.biologiezentrum.at oder

www.insecta-web.org/MWM/

ÖSTERREICHISCHE FACHZEITSCHRIFTEN ONLINE ZUM DOWNLOAD auf **www.biologiezentrum.at**

Nutzen Sie die Möglichkeit, Einzelartikel verschiedener österreichischer Zeitschriften/Reihen als **pdf-Files** auf Ihren Computer herunter zu laden (OCR-gescannt). Viele Arbeiten (vorwiegend ältere Veröffentlichungen, darunter mittlerweile vergriffene Druckversionen) stehen kostenlos zur Verfügung, der kostenpflichtige Anteil wird mit 10 Cent pro Seite verrechnet, ab 500 Seiten gibt es Mengenrabatt. Insgesamt mehr als **700.000 Seiten** umfasst das Angebot und wird ständig erweitert!

Verrechnungsmodus: diverse Kreditkarten (Visa, Mastercard, Diners Club, American Express, JCB), Übertragung verschlüsselt, Zusendung unmittelbar nach Bestellung an die angegebene E-Mailadresse.

Unter www.zobodat.at steht Ihnen der gesamte Literaturdatenbestand mit selektiver Suchparameterabfrage zur Verfügung! Die kostenlosen pdfs stehen auch dort als Download bereit. Ein biografischer Datenpool, hauptsächlich zu österreichischen Entomologen, gibt interessante Einblicke in die Wissenschaftsgeschichte. Eine ausführliche Hilfe führt Sie in die Benutzung ein.

www.biologiezentrum.at

www.zobodat.at

Kontakt: f.gusenleitner@landesmuseum.at

Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich:

Maximilian SCHWARZ, Konsulent f. Wissenschaft der Oberösterreichischen Landesregierung, Eibenweg 6, A-4052 Ansfelden, E-Mail: maximilian.schwarz@liwest.at.

Redaktion: Erich DILLER, ZSM, Münchhausenstraße 21, D-81247 München;
Roland GERSTMEIER, Lehrstuhl f. Tierökologie, H.-C.-v.-Carlowitz-Pl. 2, D-85350 Freising
Fritz GUSENLEITNER, Lungitzerstr. 51, A-4222 St. Georgen/Gusen;
Wolfgang SCHACHT, Scherrerstraße 8, D-82296 Schöngeising;
Wolfgang SPEIDEL, MWM, Tengstraße 33, D-80796 München;
Thomas WITT, Tengstraße 33, D-80796 München.

Adresse: Entomofauna, Redaktion und Schriftentausch c/o Museum Witt, Tengstr. 33, 80796 München, Deutschland, E-Mail: thomas@witt-thomas.com; Entomofauna, Redaktion c/o Fritz Gusenleitner, Lungitzerstr. 51, 4222 St. Georgen/Gusen, Austria, E-Mail: f.gusenleitner@landesmuseum.at

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 2010

Band/Volume: [0031](#)

Autor(en)/Author(s): Ockermüller Esther, Lelej Arkadiy Stepanovitch

Artikel/Article: [First record of velvet ant *Smicromyrme tristis* LELEJ 1984 from Austria \(Hymenoptera: Mutillidae: Smicromyrmini\) 405-412](#)