

NOTA / NOTE

Cataglyphis viatica (Fabricius, 1787) (Hymenoptera: Formicidae), host ant for *Thorictus buigasi* Escalera, 1923 (Coleoptera: Dermestidae: Thorictinae) from Morocco.

Jiří Háva^{1,5}, Alain Lenoir², Abdallah Dahbi³ & Fernando Amor⁴

¹ Department of Forest Protection and GM, Faculty of Forestry and Wood Sciences, Czech University of Life Sciences
Kamýcká 1176, CZ-165 21, Prague 6 - Suchbát, Czech Republic.
e-mail: jh.dermestidae@volny.cz

² IRBI, UMR CNRS 7261, Université François Rabelais, Faculté des Sciences, Parc de Grandmont, 37200 Tours, France.
e-mail: alain.lenoir@univ-tours.fr

³ Département des Sciences de la Vie et de la Terre, Faculté Poly-disciplinaire, Université Caddi Ayyad, Safi, Morocco.
e-mail: abdoubis@hotmail.com

⁴ Estación Biológica de Doñana (CSIC). Av. Américo Vespucio, 41092, Sevilla, Spain.
e-mail: fernanamor@terra.es

⁵ corresponding author.

Abstract: *Cataglyphis viatica* (Fabricius, 1787) is firstly reported as a host ant for the dermestid beetle *Thorictus buigasi* Escalera, 1923 from Morocco. New locality data from Morocco are also recorded for *T. buigasi* Escalera, 1923.
Key words: Hymenoptera, *Cataglyphis*, Coleoptera, *Thorictus*, Faunistics, new records, Morocco.

Resumen: *Cataglyphis viatica* (Fabricius, 1787) (Hymenoptera: Formicidae), hormiga huésped de *Thorictus buigasi* Escalera, 1923 en Marruecos (Coleoptera: Dermestidae: Thorictinae). *Cataglyphis viatica* (Fabricius, 1787) se registra por primera vez como hormiga huésped de *Thorictus buigasi* Escalera, 1923 en Marruecos. También se aportan nuevos datos de localidades de *T. buigasi* Escalera, 1923 en Marruecos.
Palabras clave: Hymenoptera, *Cataglyphis*, Coleoptera, *Thorictus*, Faunistics, new records, Morocco.

Recibido: 23 de agosto de 2012
Aceptado: 25 de agosto de 2012

Publicado on-line: 3 de septiembre de 2012

Introduction

The dermestid genus *Thorictus* Germar, 1834 currently includes 165 species and subspecies known from the Palaearctic, Oriental and Afrotropical Regions (Háva 2012). Host ants are known for 42 species and all these species are myrmecophiles and hosts of various ant genus (Háva 2012).

Here we present *Cataglyphis viatica* (Fabricius, 1787) as a new host ant for the species *Thorictus buigasi* Escalera, 1923 recorded for the first time from Morocco.

Results

Thorictus buigasi Escalera, 1923

Material examined: Morocco, Marrakesh (31°41'50.8"N, 7°59'17.2"W, 420 m), 5.V.2012, A. Lenoir leg., 2 spec., in coll. J. Háva. Two colonies were dug, one with 5 beetles; Ait Ourir near Marrakech (31°32'40.8N, 7°38'55.3"W, 710 m), 6.V.2012, A. Lenoir coll. Three colonies were dug, with 0, 3 and 15 beetles.

Distribution: This species was already known from just one locality in Morocco: Essaouira (called Mogador in John 1965, Kocher 1969). With these two new localities, the species seems to be located in South Morocco.

Biology: The specimens of *Thorictus buigasi* were collected in the field, on the heads of *Cataglyphis viatica* workers (see Háva & Lenoir, 2008). They clutch on the host ant antennae with their mandibles (Figs. 1 & 2).

Cataglyphis viatica (Fabricius, 1787)

Material examined: Morocco, Marrakesh, 5-6.V.2012, A. Lenoir, Xim Cerdá, A. Dahbi leg.; Ait Ourir near Marrakech (31°32'40.8N, 7°38'55.3"W, 710m), 6.V.2012, A. Lenoir coll., more specimens in coll. Université François Rabelais, Faculté des Sciences.

Distribution: This species is known from North Africa and Middle East (Bolton *et al.* 2007). It is a new host ant for the myrmecophilous beetle species *Thorictus buigasi*.

Acknowledgements

We are indebted to our colleagues Raphaël Boulay and Xim Cerdá for collecting this material.

References

- Bolton B.; Alpert G.; Ward P.S. & Naskrecki P. 2007. *Bolton's Catalogue of Ants of the World: 1758-2005 (CD-ROM)*. Harvard University Press; CDR edition 2007.
- Háva J. 2012. *Dermestidae of the World (Coleoptera). An interactive manual*. Available from: <http://www.dermestidae.wz.cz> (accessed 11 January 2012)
- Háva J. & Lenoir A. 2008. *Thorictus martinezi* sp. n. from Burkina Faso (Coleoptera: Dermestidae: Thorictini). *Calodema Supplementary Paper 77*: 1-5.
- Hetschko A. 1926. *Coleopterorum Catalogus*. Pars 83 - *Thorictidae, Catopochrotidae, Monoedidae, Synteliidae, Cossyphodidae*. In: Junk W. & Schenkling S. (eds.): *Coleopterorum Catalogus*. Berlin: W. Junk, 15 pp.
- Hetschko A. 1930. *Coleopterorum Catalogus*. Pars 109 - *Cucujidae, Thorictidae (Suppl.), Cossyphodidae (Suppl.)*. In: Junk W. & Schenkling S. (eds.): *Coleopterorum Catalogus*. Berlin: W. Junk, 122 pp. + 2 pp. not numbered.

Hetschko A. & Wasmann E. 1925. Übersicht der Thorictidae mit Angabe der Wirte. *Wiener Entomologische Zeitung* **42**: 183-189.

John H. 1965. Revision der Gattung *Thorictus* Germar (Thorictidae, Clavicornia, Coleoptera). Eine Bestandaufnahme, Kritik und Neubeschreibungen. II. Teil. *Entomologische Abhandlungen und Berichte aus dem Staatlichen Museum für Tierkunde in Dresden* **31**: 319-395.

Kocher L. 1969. *Catalogue commenté des Coléoptères du Maroc*. Feuillet Rectificatifs. Feuillet Rectificatif No. 12. (fascicule IV, pp. 70-72). Fam. Thorictidae pp. 1-6. Rabat: *Travaux de l'Institut Scientifique Chérifien et de la Faculte des Sciences*.

Zhantiev R.D. 2011. New and little known dermestid-beetles of the genus *Thorictus* (Coleoptera, Dermestidae). *Zoologicheskij Zhurnal* **90**: 706-711 (in Russian, English summary).



Figs. 1 & 2.- *Thorictus buigasi* on the head of *Cataglyphis viatica*. (photos Fernando Amor)



Appendix 1. - List of *Thorictus* species with hosts of genre *Cataglyphis* (Hetschko & Wasmann 1925; Hetschko 1926, 1930; Háva & Lenoir 2008; and Zhantiev 2011).

Species	Host ant *
"castaneus species group"	
<i>Thorictus bonnairei bonnairei</i> Wasmann, 1894	<i>Cataglyphis bicolor</i> (Fabricius, 1793)
<i>Thorictus bonnairei nigroides</i> Wasmann, 1925	<i>Cataglyphis bicolor</i> (Fabricius, 1793)
<i>Thorictus buigasi</i> Escalera, 1923	<i>Cataglyphis viatica</i> (Fabricius, 1787), new record
<i>Thorictus castaneus castaneus</i> Germar, 1834	<i>Cataglyphis bombycinus</i> (Roger, 1859), <i>C. diehlii</i> (Forel, 1902)
<i>Thorictus foreli</i> Wasmann, 1894	<i>Cataglyphis bicolor</i> var. <i>megalocola</i> (Foerster, 1850), <i>C. hispanica</i> (Emery, 1906), <i>C. altisquamis</i> (André, 1881)
<i>Thorictus foveicollis</i> Reitter, 1880	<i>Cataglyphis cursor</i> (Fonscolombe, 1846), <i>C. aenescens</i> (Nylander, 1849)
<i>Thorictus gibbosus</i> Zhantiev, 2010	<i>Cataglyphis setipes</i> (Forel, 1894), <i>C. foreli</i> (Ruzsky, 1903)
<i>Thorictus manni</i> Reichenspenger, 1926	<i>Cataglyphis</i> sp.
<i>Thorictus martinezi</i> Háva & Lenoir, 2008	<i>Cataglyphis</i> sp. nov.
<i>Thorictus medvedevi</i> Zhantiev, 2010	<i>Cataglyphis setipes</i> (Forel, 1894)
<i>Thorictus pauciseta</i> Wasmann, 1894	<i>Cataglyphis viatica</i> (Fabricius, 1787) (= <i>bicolor desertorum</i> (Forel, 1894))
<i>Thorictus pilosus</i> Peyron, 1857	<i>Cataglyphis diehlii</i> (Forel, 1902)
<i>Thorictus puncticollis</i> Lucas, 1846	<i>Cataglyphis altisquamis</i> (André, 1881)
<i>Thorictus sulcicollis</i> Pérez Arcas, 1868	<i>Cataglyphis hispanica</i> (Emery, 1906)
"orientalis species group"	
<i>Thorictus bifoveolatus</i> Reitter, 1887	<i>Cataglyphis aenescens</i> (Nylander, 1849)
<i>Thorictus fairmairii fairmairii</i> Raffray in Fairmaire & Raffray, 1873	<i>Cataglyphis albicans</i> (Roger, 1859)
<i>Thorictus grandicollis grandicollis</i> Germar, 1842	<i>Cataglyphis cursor</i> (Fonscolombe, 1846)
<i>Thorictus kaznakovi</i> R. Schmidt, 1904	<i>Cataglyphis aenescens</i> (Nylander, 1849)
<i>Thorictus koenigi</i> Reitter, 1887	<i>Cataglyphis aenescens</i> (Nylander, 1849)
<i>Thorictus lederi</i> Reitter, 1881	<i>Cataglyphis cursor</i> (Fonscolombe, 1846)
<i>Thorictus myrmecophilus</i> Reitter, 1881	<i>Cataglyphis</i> sp.
<i>Thorictus postangulis</i> Reitter, 1895	<i>Cataglyphis aenescens</i> (Nylander, 1849)
<i>Thorictus ruzskii</i> Semenov-Tian-Shanskiy, 1903	<i>Cataglyphis setipes</i> (Forel, 1894)

* other host ants have not yet been reported.