

## GEA, FLORA ET FAUNA

# Confirmation of the presence of *Sciocoris* (*Neosciocoris*) *sideritidis* Wollaston, 1858 (Heteroptera: Pentatomidae) in the Iberian Peninsula and first records for the province of Barcelona

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## Abstract

*Sciocoris* (*Neosciocoris*) *sideritidis* is known from Western Mediterranean region and the Macaronesia. The species is recorded in the Iberian Peninsula through pictures in the photosharing website «Biodiversidad Virtual», and in a key to the species of Pentatomoidea of France. With this note, we confirm the record in the Iberian Peninsula and we widen its distribution range southwards.

**Key words:** Faunistics, distribution, Hemiptera, true bug, Iberian Peninsula.

## Resum

**Confirmació de la presència de *Sciocoris* (*Neosciocoris*) *sideritidis* Wollaston, 1858 (Heteroptera: Pentatomidae) a la península Ibèrica i les primeres cites per la província de Barcelona**

*Sciocoris* (*Neosciocoris*) *sideritidis* és present a la Mediterrània occidental i la Macaronèsia. S'ha citat de la península Ibèrica per mitjà de fotografies al portal fotogràfic «Biodiversidad Virtual» i en una clau d'espècies de Pentatomoidea de França. Amb aquesta nota es confirma la cita ibèrica per l'espècie i s'amplia la seva àrea de distribució cap al sud.

**Paraules clau:** Faunística, distribució, hemípter, xinxa de camp, península Ibèrica.

## Introduction

Genus *Sciocoris* Fallén, 1829 comprises about a hundred species from which half of them inhabit the Palaearctic region (Derjanschi & Péricart, 2005). Wagner (1965) subdivided the genus in five subgenera according to the evaporatory area extension and the external shape of the male genitalic capsule.

The species *Sciocoris* (*Neosciocoris*) *sideritidis* Wollaston, 1858 has a Western Mediterranean distribution, with a localized citation in Iran, which has to be still confirmed (Derjanschi & Péricart, 2005; Rider, 2006).

Species of genus *Sciocoris* cannot be identified only using dorsal habitus pictures, in addition, *Sciocoris sideritidis* may be easily mixed up with *S. maculatus* Fieber, 1851 (Lupoli & Dusoulier, 2015). There is the need for a detailed observation of the male genitalia and evaporatory area, together with external features, in order to get a correct identification to species level (Derjanschi & Péricart 2005; Lupoli & Dusoulier, 2015).

In the Iberian Peninsula, the species was recorded for the first time by Vivas (2013) through pictures uploaded in the photosharing website Biodiversidad Virtual ([www.biodiversidadvirtual.org](http://www.biodiversidadvirtual.org)). This record is uncertain, as the picture does

not show shape and extension of the evaporatory area and the shape of the male genital capsule.

Lupoli & Dusoulier (2015) validate the Iberian presence of *S. sideritidis*, after examination of adult and nymph specimens from the locality of L'Estartit, Girona, Catalonia.

In this note, we inform of some more Iberian specimens. As *S. sideritidis* is reported from France, N. Africa and Macaronesia (Rider, 2006), more Iberian localities should be found with time, either by newly collected samples or by the revision of samples attributed to the very close species *S. maculatus*.

## Material studied

Can Coll (Collserola, Barcelona, Catalunya), 5.VI.2010, 1 ♂; M. Goula leg; in Goula collection, glued on card. Masos de Pals (Girona, Catalunya), 11. VIII.2015: 1 ♂; Roca-Cusachs leg; in Roca-Cusachs collection, MRCPEN177; glued on point; two legs preserved in absolut ethanol for further molecular purposes. Parc Agrari del Baix Llobregat (Gavà, Barcelona, Catalunya), 12.vii.2016: 2 ♂ & 2 ♀; Roca-Cusachs leg;

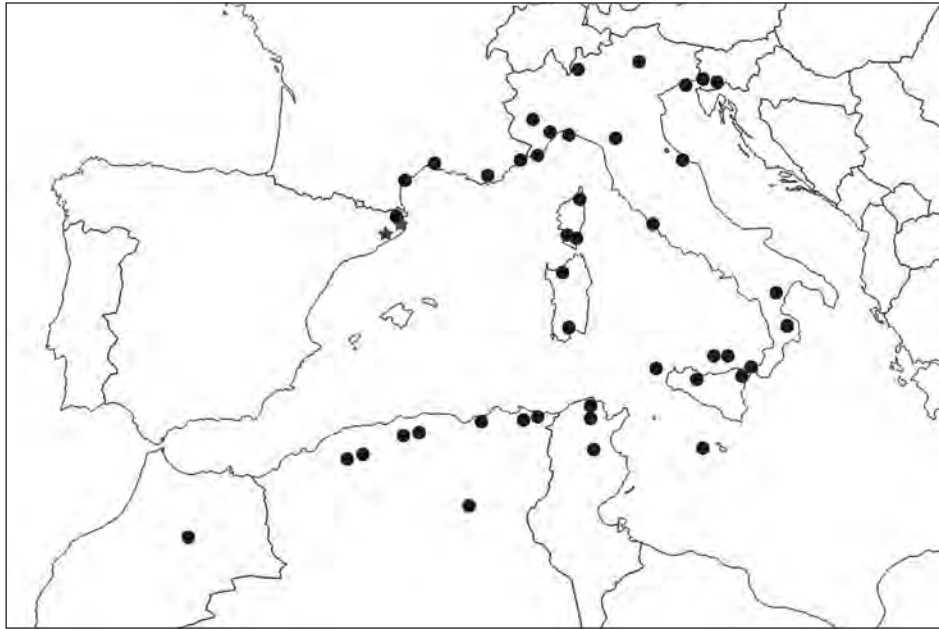


Figure 1. Distribution map of *Sciocoris (Neosciocoris) sideritidis* Wollaston, 1858 in the Mediterranean basin. The Macaronesic archipelagos are not included. Black circles correspond to known localities. Red stars correspond to the new localities. Adapted from Derjanschi & Péricart (2005).

in Goula collection, glued on point (1 ♂ & 1 ♀) and preserved in absolute ethanol for molecular purposes (1 ♂ & 1 ♀).

## Discussion and Conclusion

Species of genus *Sciocoris* cannot be identified using only dorsal habitus, and particularly *Sciocoris sideritidis* may be easily mixed up with *S. maculatus* Fieber, 1851 as their external features are very similar (Lupoli & Dusoulier, 2015). Therefore, the record in the photosharing website Biodiversidad Virtual has to be considered ambiguous, as information required is lacking.

The localities of Masos de Pals and Estartit, both in Girona province, on one side, and Parc Agrari del Baix Llobregat and Collserola on the other side, are separated for more than 100km. With this new finding, the distribution of the species is extended southwards, with two independent populations located in the northeast Iberian Peninsula (Fig. 1).

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