

NOTA / NOTE

Nemausus sordidatus (Stål, 1858) (Hemiptera: Alydidae) in PortugalJosé Manuel Grosso-Silva¹, Paride Dioli² & Berend Aukema³

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Abstract: A new southern Portuguese record of *Nemausus sordidatus* (Stål, 1858) (Hemiptera: Alydidae) from the early 1990s improves the knowledge about the occurrence of the species in Portugal, confirming its presence in the country 30 years ago. Details on another record recently published from a nearby locality are also provided.

Key words: Hemiptera, Alydidae, *Nemausus sordidatus*, new record, earliest known captures, faunistics, Portugal.

Resumen: *Nemausus sordidatus* (Stål, 1858) (Hemiptera: Alydidae) en Portugal. Se presenta un nuevo registro en el sur portugués de *Nemausus sordidatus* (Stål, 1858) (Hemiptera: Alydidae) de comienzos de los años 1990 que mejora el conocimiento sobre la presencia de la especie en Portugal y confirma su presencia en el país hace 30 años. También se proporcionan detalles sobre otro registro recientemente publicado de una localidad cercana.

Palabras clave: Hemiptera, Alydidae, *Nemausus sordidatus*, nuevo registro, primera captura conocida, faunística, Portugal.

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Introduction

The genus *Nemausus* Stål, 1866 (Hemiptera: Alydidae) contains three species, all of African origin: *N. inornatus* (Stål, 1858), *N. lattini* Schaefer & O'Donnell, 2008 and *N. sordidatus* (Stål, 1858). They were revised by GÖLLNER-SCHIEDING (2000) and two of them arrived in Europe and are considered alien species: *N. inornatus*, recently found in Spain (Alicante), the first and only European record so far (DIOLI et al., 2021), and *N. sordidatus*, known from several southern European countries: Italy (Sicily only), Portugal, and Spain, as compiled by GROSSO-SILVA & RAMOS (2021). Since then, *N. sordidatus* was also recorded from Greece (Crete) and Cyprus (DAVRANOGLU et al., 2021).

Nemausus sordidatus was recently reported for the first time from a precise locality in mainland Portugal based on a photograph obtained in Lisbon on 12 January 2021 (GROSSO-SILVA & RAMOS, 2021). As stated in that note, the species was not new for the Portuguese fauna as its occurrence was already reflected (without any additional details) in the sixth volume of the Catalogue of the Heteroptera of the Palaearctic Region (AUKEMA et al., 2013). More recently, a second Portuguese locality was briefly mentioned by DIOLI et al. (2021) when *N. inornatus* was recorded from Spain.

In this new note, an additional new record from southern Portugal from the early 1990s is presented, which was the basis for the inclusion of Portugal among the European countries of occurrence by AUKEMA *et al.* (2013), and further details on the record by DIOLI *et al.* (2021) are provided. The resulting known Portuguese distribution of *N. sordidatus* is shown in Map 1. These southern records extend at least by 30 years back the presence of *N. sordidatus* in mainland Portugal as regards the data presented by GROSSO-SILVA & RAMOS (2021).

Material examined

Faro district:

- Albufeira municipality: Praia da Oura (37.086061, -8.227860; MGRS: 29SNB6804), 11-10-1991 (1 ♂, 2 ♀♀, Kees den Bieman leg., col. Berend Aukema).
- Monchique municipality: Caldas de Monchique (37.2806007, -8.5548576; MGRS: 29SNB3926), 08-1992 (22 specimens on *Acacia dealbata* Link, Paride Dioli leg. & col.) (previously published by DIOLI *et al.*, 2021).

Discussion

It has been suggested that the presence of *Nemausus sordidatus* in the southern part of the Iberian Peninsula could be linked to the importation of some Fabaceae for ornamental purposes, specifically *Acacia karroo* Hayne (BAENA & COELLO, 2012; VIVAS & BURGERS, 2015), but the species has also adapted well to other acacias. In fact, the numerous specimens of *N. sordidatus* collected in Caldas de Monchique show that it also adapts well to common mimosas (*Acacia dealbata* Link). It should be emphasized that, prior to the discovery in Monchique, a furious fire had devastated the area and the specimens took refuge on one of the few mimosas that had been spared. Furthermore, on the Canary Islands it lives on *Acacia cyclops* A. Cunn. ex G. Don (6 males and 16 females collected between 1997 and 2002 in the islands of Lanzarote and Fuerteventura, Berend Aukema leg. & col.), an invasive Australian species that has also become established in Portugal. It is therefore predictable that the species will be found in other areas of the country since there are a number of *Acacia* species present throughout Portugal.

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Map 1.- Iberian distribution of *Nemausus sordidatus* (Stål, 1858), with the previously known Spanish provinces and Portuguese districts in grey, the previously known Portuguese MGRS 100 km² squares in blue, and the new Portuguese MGRS 100 km² square in orange.