

## NOTA / NOTE

First detailed record of *Nemausus sordidatus* (Stål, 1858)  
(Hemiptera: Alydidae) from mainland PortugalJosé Manuel Grosso-Silva<sup>1</sup> & Guilherme Ramos<sup>2</sup>

<sup>1</sup> Museu de História Natural e da Ciência da Universidade do Porto (MHNC-UP) / PRISC, Praça Gomes Teixeira, 4099-002 Porto, Portugal. e-mail: jmgrossosilva@mhnc.up.pt

<sup>2</sup> Associação dos Pombos de Rua, Rua da Murgueira, 36, 3°C, 2610-280 Amadora, Portugal. e-mail: gjmramos2003@gmail.com

**Abstract:** The previous information about the presence of *Nemausus sordidatus* (Stål, 1858) (Hemiptera: Alydidae) in Portugal is commented and the species is recorded from the country for the first time from a precise locality. The world and the Iberian distribution of the species are summarized and a map synthesizing the knowledge about the Iberian distribution is included.

**Key words:** Hemiptera, Alydidae, *Nemausus sordidatus*, Iberian Peninsula, first locality, Portugal.

**Resumen:** Primer registro preciso de *Nemausus sordidatus* (Stål, 1858) (Hemiptera: Alydidae) de Portugal continental. Se comenta la información previa sobre la presencia de *Nemausus sordidatus* (Stål, 1858) (Hemiptera: Alydidae) en Portugal continental y se registra la especie de la primera localidad concreta para el país. Se resume la distribución mundial e ibérica de la especie y se incluye un mapa que sintetiza el conocimiento sobre la distribución de la especie en la Península Ibérica.

**Palabras clave:** Hemiptera, Alydidae, *Nemausus sordidatus*, Península Ibérica, primera localidad, Portugal.

**Recibido:** 28 de enero de 2021

**Publicado on-line:** 13 de febrero de 2021

**Aceptado:** 6 de febrero de 2021

*Nemausus sordidatus* (Stål, 1858) (= *Nemausus simplex* Horváth, 1911, synonymized by LINNAVUORI, 2004) (Hemiptera: Alydidae) is a broad-headed bug described by STÅL (1858) as *Hypselopus sordidatus* from the Swakop river plain in Namibia.

The known distribution of *N. sordidatus* includes the Palaearctic and Afrotropical regions: Asia (Iran, Israel, Jordan, Oman, Saudi Arabia, Turkey, and Yemen), northern Africa (Algeria, the Canary Islands, Egypt, Morocco, and Tunisia), afrotropical Africa, and Europe [Italy (Sicily), Portugal, and Spain] (RIBES, 1971; MOULET, 1995; GÖLLNER-SCHIEDING, 2000; DOLLING, 2006; DURSUN *et al.*, 2010; AUKEMA *et al.*, 2013; CARAPEZZA *et al.*, 2020).

In Spain, *N. sordidatus* was recorded from the provinces of Cádiz (RIBES, 1971), Málaga (VÁZQUEZ, 1985), Seville, and Huelva (VIVAS & BURGERS, 2015). Regarding Portugal, the first reference to the occurrence of *N. sordidatus* was presented in GHAHARI *et al.* (2010) through a statement by Pierre Moulet considering DOLLING's (2006) mention from Poland as erroneous and likely pertaining to Portugal, which was in fact corroborated by AUKEMA *et al.* (2013), who corrected the erroneous record as follows: "PO (Aukema!). Delete PL! [error]". As a result, although the species is undoubtedly cited from Portugal, no localities or additional data have ever been published for the country.

Here we record *N. sordidatus* from a precise locality in Portugal for the first time, based on a specimen photographed by Guilherme Ramos (Fig. 1) on 12 January 2021 at Escola D. Pedro V in Lisbon

(Lisbon district, Lisbon municipality, 29SMC8688, 83 m above sea level), an observation uploaded to the online platform BioDiversity4All (<https://www.biodiversity4all.org/observations/67960037>). Map 1 shows the currently known Iberian distribution of *N. sordidatus*, including the Spanish provinces mentioned and the new Portuguese district.

With the new record of *N. sordidatus* presented here, which in the absence of any details about previous findings may be regarded as a confirmation for mainland Portugal, the list of Alydidae known from the country comprises the five species listed below, three of which were first recorded in the late 19<sup>th</sup> century and two within the last year:

Species	Earliest Portuguese record
<i>Alydus calcaratus</i> (Linnaeus, 1758)	NOBRE (1899)
<i>Camptopus lateralis</i> (Germar, 1817)	LETHIERRY (1877)
<i>Heegeria tangirica</i> (Saunders, 1877)	GROSSO-SILVA <i>et al.</i> (2020)
<i>Nemausus sordidatus</i> (Stål, 1858)	AUKEMA <i>et al.</i> (2013) from "Portugal". Confirmed in the present study.
<i>Micrelytra fossularum</i> (Rossi, 1790)	LETHIERRY (1877)

## Acknowledgements

The authors wish to thank Marcos Roca-Cusachs and Fernando Prieto for their invaluable bibliographic assistance.

## References

- AUKEMA, B.; RIEGER, C. & RABITSCH, W. 2013. *Catalogue of the Heteroptera of the Palaearctic Region. Volume 6. Supplement*. The Netherlands Entomological Society, Amsterdam. 629 pp.
- CARAPEZZA, A.; ZAFARANA, M.A. & ZAFARANA, S. 2020. First Italian record of *Nemausus sordidatus* (Stål, 1858) collected in southern Sicily: accidental introduction or expansion of range? (Hemiptera Heteroptera Alydidae). *Il Naturalista siciliano*, S. IV, XLIV(1-2): 155-160.
- DOLLING, W.R. 2006. Family ALYDIDAE Amyot & Serville, 1843, pp. 28-42. In: AUKEMA, B. & RIEGER, C. (eds.). *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5. Pentatomomorpha II*. The Netherlands Entomological Society, Amsterdam. 550 pp.
- DURSUN, A.; KAÇAR, G. & ULUSOY, M.R. 2010. The Alydidae (Hemiptera: Heteroptera: Coreoidea) of Turkey: A Key to the Genera, New Records and a Species Checklist. *Entomological News*, 121(5): 487-497.
- GHAHARI, H.; CARPINTERO, D.L.; MOULET, P.; LINNAVUORI, R.E. & OSTOVAN, H. 2010. Annotated catalogue of the Iranian broad-headed bugs (Hemiptera: Heteroptera: Alydidae). *Acta Entomologica Musei Nationalis Pragae*, 50(2): 425-436.
- GÖLLNER-SCHIEDING, U. 2000. Die Alydinae Afrikas (Insecta: Heteroptera: Coreoidea: Alydidae). *Entomologische Abhandlungen des Staatlichen Museums für Tierkunde Dresden*, 59(1): 5-53.
- GROSSO-SILVA, J.M.; CARRAPIÇO, T. & REIS, S. 2020. *Heegeria tangirica* (Saunders, 1877) (Hemiptera: Alydidae), new species for Portugal. *Arquivos Entomológicos*, 22: 421-422.

LETHIERRY, L. 1877. Relevé des Hemiptères recueillis en Portugal et en Espagne par M. C. van Volxem en mai et juin 1871. *Annales de la Société Entomologique de Belgique*, **20**: 34-43.

LINNAVUORI, R.E. 2004. Heteroptera of the Hormozgan province in Iran. III. Cimicomorpha (Anthocoridae, Cantacaderidae, Tingidae), Pentatomorpha. *Acta Universitatis Carolinae, Biologica*, **48**: 273-286.

MOULET, P. 1995. Hémiptères Coreoidea (Coreidae, Rhopalidae, Alydidae), Pyrrhocoridae et Stenocephalidae Euro-Méditerranéens. Faune de France: France et régions limitrophes, 81. Fédération Française des Sociétés de Sciences Naturelles, Paris. 336 pp.

NOBRE, A. 1899. Catálogo do Gabinete de Zoologia 1898-1899. *Anuario da Academia Polytechnica do Porto*, **22**: 106-140.

RIBES, J. 1971. Hemípteros de la zona de Algeciras (Cádiz). II. *Miscelánea Zoológica*, **3**(1): 21-26.

STÅL, C. 1858. Orthoptera och Hemiptera från södra Afrika. *Öfversigt af Kongliga Vetenskapsakademiens Förhandlingar*, **15**: 307-320.

VÁZQUEZ, M.Á. 1985. *Los Coreoidea ibéricos*. Tesis Doctoral. Publicaciones de la Universidad Complutense de Madrid, Madrid. 322 pp.

VIVAS, L. & BURGERS, A. 2015. Las especies españolas de Alydidae y nuevos datos sobre *Heegeria tangirica* (Saunders, 1877) en la Península Ibérica (Hemiptera: Heteroptera: Coreoidea: Alydidae). *BV news Publicaciones Científicas*, **4**(54): 64-82.



Fig. 1.- Specimen of *Nemausus sordidatus* (Stål, 1858) photographed by Guilherme Ramos on 12 January 2021 in Lisbon, Portugal.



**Map 1.** - Iberian distribution of *Nemausus sordidatus* (Stål, 1858), with the previously known Spanish provinces (in grey), the new Portuguese district (in cyan) and the MGRS 10x10 km square of the observation site in Portugal (in blue).