

## NOTA / NOTE

*Pantilius (Pantilius) tunicatus* (Fabricius, 1781) (Hemiptera: Miridae: Mirinae), new species for PortugalJosé Manuel Grosso-Silva<sup>1</sup>, Thijs Valkenburg<sup>2</sup> & Ernesto Gonçalves<sup>3</sup>

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**Abstract:** *Pantilius (Pantilius) tunicatus* (Fabricius, 1781) (Hemiptera: Miridae: Mirinae) is recorded for the first time from Portugal. An overview of the global distribution of the species is presented and its known Iberian distribution is summarised and mapped.

**Key words:** Hemiptera, Miridae, *Pantilius tunicatus*, first records, Portugal.

**Resumen:** *Pantilius (Pantilius) tunicatus* (Fabricius, 1781) (Hemiptera: Miridae: Mirinae), nueva especie para Portugal. Se cita *Pantilius (Pantilius) tunicatus* (Fabricius, 1781) (Hemiptera: Miridae: Mirinae) por primera vez de Portugal. Se presenta una visión general de la distribución mundial de la especie y se resume y mapea su distribución ibérica conocida.

**Palabras clave:** Hemiptera, Miridae, *Pantilius tunicatus*, primeras citas, Portugal.

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The genus *Pantilius* Curtis, 1833 (Hemiptera: Miridae: Mirinae) comprises three species worldwide (KIM et al., 2016) and is represented in Europe by a single species, *Pantilius (Pantilius) tunicatus* (Fabricius, 1781) (KERZHNER & JOSIFOV, 1999).

*Pantilius (P.) tunicatus* was described by FABRICIUS (1781)<sup>1</sup> from "Germania" (Germany) as *Cimex tunicatus*. The currently recognized synonyms of this nominal taxa include *Pantilius infuscatus* J. Sahlberg, 1920, *Pantilius pallidissimus* J. Sahlberg, 1920, and *Pantilius pulcher* Stichel, 1957 plus *Cimex gothicus* Geoffroy in Fourcroy, 1785 non *Cimex gothicus* Linnaeus, 1758, the latter resulting from a misidentification (KERZHNER & JOSIFOV, 1999).

The known distribution range of *P. (P.) tunicatus* includes most of Europe (close to 30 European countries are listed) and Asia, from Armenia and Georgia to the Russian Far East (KERZHNER & JOSIFOV, 1999). The currently known Iberian distribution (Map 1) includes the Spanish provinces of (only the earliest record for each province is presented) Girona (CUNÍ MARTORELL, 1889), Barcelona (SÁNCHEZ, 1920), Tarragona (RIBES, 1982), Guipúzcoa (PAGOLA-CARTE et al., 2005), and Álava (PAGOLA-CARTE et al., 2006).

Despite a reference (GOULA, 1988) to a supposed record of *P. (P.) tunicatus* from Portugal by SEABRA (1926), this author did not report the species from any Portuguese locality, mentioning instead the existence of material from France, collected by Puton and O. Vogt, in the collection of the

<sup>1</sup> The species is described on p. 369. Publication dates according to KERZHNER & JOSIFOV (1999): pp. 1-494 (1781); pp. 495-517 (1782).

Zoological Museum of the University of Coimbra. As a result, the species remains unrecorded from Portugal and the records presented in this note, based on specimens photographed by the authors in three different municipalities in the northern half of Portugal are the first from the country.

## Images examined and iNaturalist Portuguese records

### PORTUGAL:

#### Guarda district:

- Gouveia municipality:
  - Near São Paio (40.509377, -7.577646; MGRS: 29TPE2085; alt.: 565 m a.s.l.), 11/10/2022 (1 adult specimen and 1 nymph photographed by Thijs Valkenburg (see [here](#) and [here](#)).

#### Viana do Castelo district:

- Ponte da Lima municipality:
  - Near Lagoa do Mimoso (Mimoso lagoon) (41.771229,-8.630225; MGRS: 29TNG3024; 14 m a.s.l.), 06/10/2022 (1 adult specimen photographed by Ernesto Gonçalves).
  - Near Lagoa de S. Pedro d'Arcos (S. Pedro d'Arcos lagoon) (41.767675,-8.641820; MGRS: 29TNG2924; 7 m a.s.l.), 01/10/2023 (1 adult specimen photographed by Ernesto Gonçalves).

#### Vila Real district:

- Boticas municipality:
  - Boticas Parque (41.675577, -7.716609; MGRS: 29TPG0614; alt.: 723 m a.s.l.), 01/10/2022 (1 adult specimen photographed by J.M. Grosso-Silva on *Betula*, shown in Figs. 1-2).

## Comments

The records of *P. (P.) tunicatus* presented in this study, besides adding the species to the Portuguese mirid catalogue, significantly expand its known distribution range in northern Iberia, as shown in Map 1. This extensive westward expansion suggests a very poor knowledge about the species area of occurrence in both the Spanish and Portuguese territories which may be derived from a lower field sampling effort during its predominantly early autumnal adult phenology [all the Iberian records presented by RIBES (1982), GOULA (1986, 1988) and PAGOLA-CARTE *et al.* (2005, 2006) are from late September and early to mid-October, as the new ones presented here].

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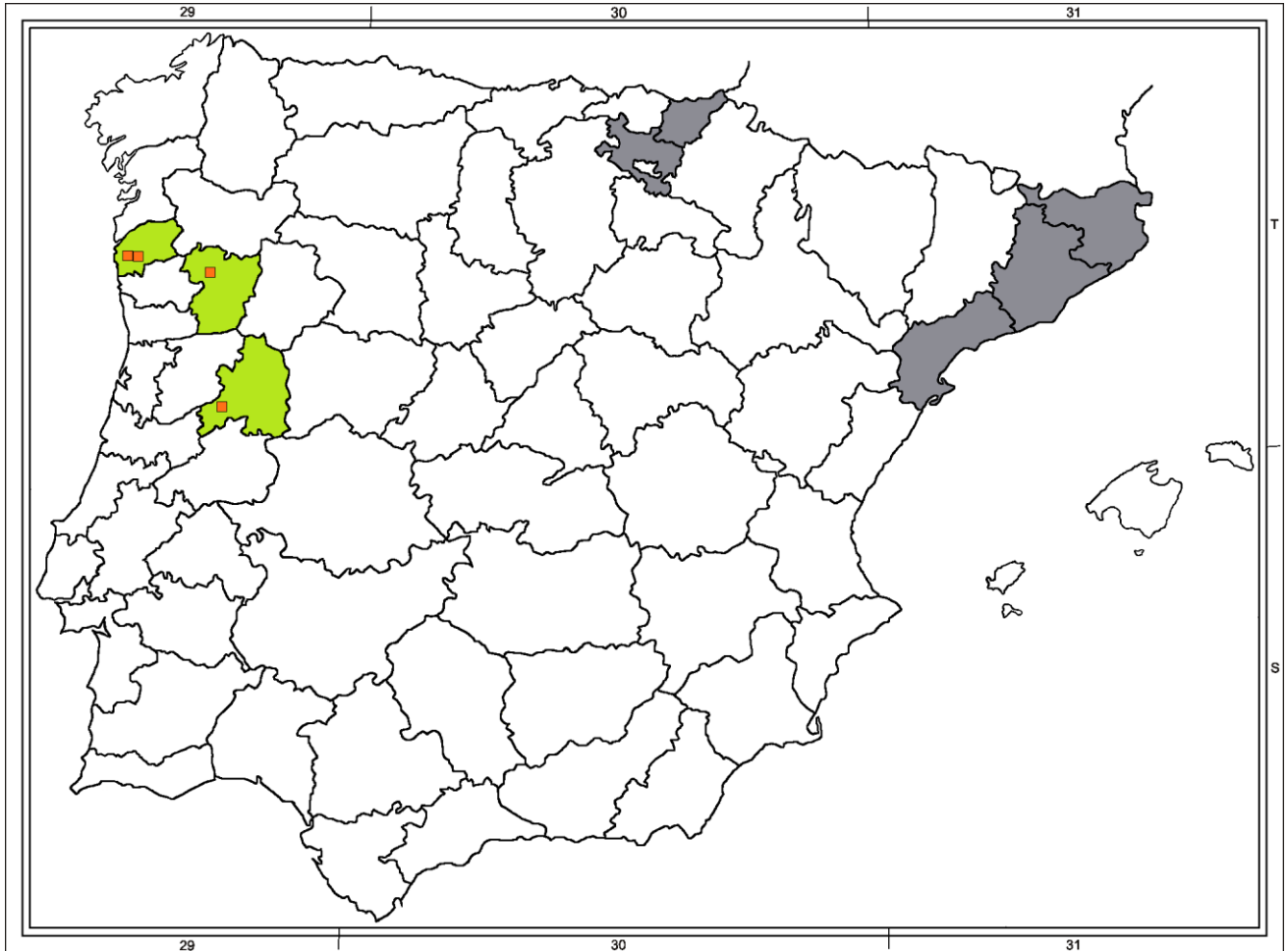
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**Figs. 1-2.** - Two views of the specimen of *Pantilius (Pantilius) tunicatus* (Fabricius, 1781) photographed in the Boticas Parque (Boticas, Vila Real, Portugal) on 01/10/2022. Photos: J.M. Grosso-Silva.



**Map 1.** - Iberian distribution of *Pantilius (Pantilius) tunicatus* (Fabricius, 1781) [grey: previously known Spanish provinces; green: new Portuguese districts; orange: new Portuguese MGRS 100 km<sup>2</sup> squares].