

NOTA / NOTE

The rose flea beetle, *Luperomorpha xanthodera* (Fairmaire, 1888) (Coleoptera: Chrysomelidae: Galerucinae: Alticini),
new for Portugal

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Abstract: *Luperomorpha xanthodera* (Fairmaire, 1888) (Coleoptera: Chrysomelidae: Galerucinae: Alticini), an Asian flea beetle, is reported from Portugal for the first time, greatly extending its known distribution range in the Iberian Peninsula. An updated global distribution of the species is presented and its Iberian known distribution is summarised and mapped.

Key words: Coleoptera, Chrysomelidae, *Luperomorpha xanthodera*, exotic species, first record, Portugal.

Resumen: El crisomélido *Luperomorpha xanthodera* (Fairmaire, 1888) (Coleoptera: Chrysomelidae: Galerucinae: Alticini), nuevo para Portugal. Se cita la especie asiática *Luperomorpha xanthodera* (Fairmaire, 1888) (Coleoptera: Chrysomelidae: Galerucinae: Alticini) por primera vez de Portugal, ampliando considerablemente su distribución conocida en la Península Ibérica. Se presenta la distribución global actualizada de la especie y se resume y mapea su distribución ibérica conocida.

Palabras clave: Coleoptera, Chrysomelidae, *Luperomorpha xanthodera*, especie exótica, primer registro, Portugal.

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Luperomorpha xanthodera (Fairmaire, 1888) (Coleoptera: Chrysomelidae: Galerucinae), the rose flea beetle, is an Asian species described from Jiangxi (China) by FAIRMAIRE (1888). Its native distribution range includes China and Korea, while outside of this range it is currently known from Austria, Belgium, France, Germany, Hungary, Italy, Montenegro, the Netherlands, Poland, Russia, Spain, Switzerland, and the United Kingdom (DÖBERL, 2010; FAGOT & LIBERT, 2016; VIÑOLAS *et al.*, 2016; SADY, 2020).

In the Iberian Peninsula, VIÑOLAS *et al.* (2016) recorded *L. xanthodera* from the Spanish province of Girona (Map 1). In this study, we present the first Portuguese records of the species derived from the study of one specimen deposited in the collection of MHNC-UP (Museu de História Natural e da Ciência da Universidade do Porto, Portugal) and a photograph uploaded to the citizen science online platform [Biodiversity4all.org](https://www.biodiversity4all.org).

Material examined

Porto district:

- Porto municipality: Porto (city) (41.164346, -8.663410; MGRS 100 km² square: 29TNF25), 09/04/2023, 1 ♀, Grosso-Silva leg., MHNC-UP col. (MHNCUP-ART-41101) (live picture in Fig. 1).

The specimen was dissected and the coxites, the bursa copulatrix rods and the spermatheca are identical to the structures shown in DEL BENE & CONTI (2009, Figure 1).

- Vila Nova de Gaia municipality: Francelos (41.078288, -8.646762; MGRS 100 km² square: 29TNF24), 14/09/2021, 1 specimen photographed by Vítor da Silva (username "amanithor"): <https://www.biodiversity4all.org/observations/94831592>.

The records of *Luperomorpha xanthodera* presented in this study, besides being the first from Portugal, greatly expand the known Iberian range of the species, as illustrated in Map 1. This is the third exotic flea-beetle species (Alticini) to establish in Portugal, following the discoveries of the presence of the potato pests *Epitrix papa* Orlova-Bienkowskaja, 2015 (recorded by OLIVEIRA *et al.*, 2008 as *Epitrix similis* Gentner, 1944) and *Epitrix cucumeris* (Harris, 1850) (reported by DOGUET, 2009).

Acknowledgements

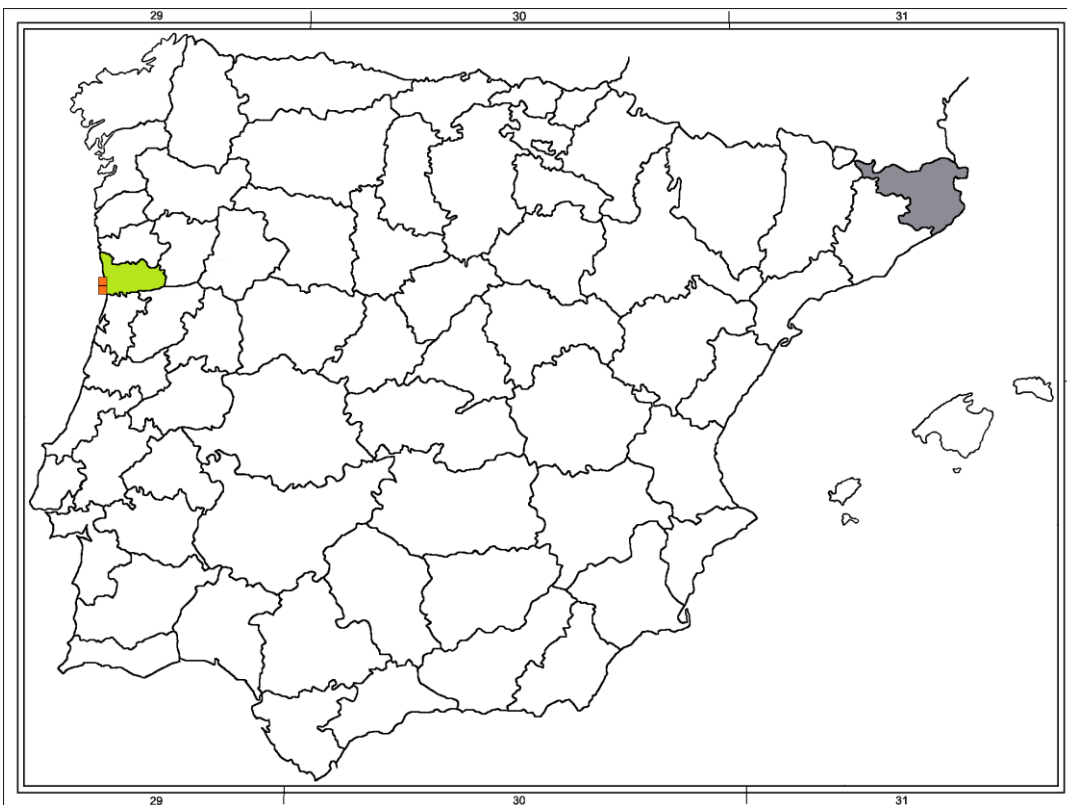
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Fig. 1.- The female specimen of *Luperomorpha xanthodera* (Fairmaire, 1888) collected in the city of Porto (Porto, Portugal) on 9/04/2023 (MHNCUP-ART-41101).



Map 1.- Iberian distribution of *Luperomorpha xanthodera* (Fairmaire, 1888) (grey: previously known Spanish province; green: new Portuguese district; orange: new Portuguese MGRS 100 km² squares).