

## New records of *Petaloptila (Petaloptila) fermi* Gorochov & Llorente, 2001 and *Gryllomorpha (Gryllomorphella) uclensis* Pantel, 1890 from continental Portugal (Orthoptera, Gryllidae)

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**Abstract:** The known distribution ranges of *Petaloptila fermi* Gorochov & Llorente 2001 and *Gryllomorpha uclensis* Pantel, 1890 (Orthoptera, Gryllidae) in continental Portugal are extended. *Petaloptila fermi* extends its known distribution westwards to the Candeeiros Mountain range. *Gryllomorpha uclensis* extends its range to two municipalities in Trás-os-Montes and westwards and southwards to Estremadura, Alentejo and Algarve.

**Key words:** Orthoptera, Gryllidae, *Gryllomorpha uclensis*, *Petaloptila fermi*, new records, distribution, continental Portugal.

**Nuevo registro de *Petaloptila (Petaloptila) fermi* Gorochov & Llorente, 2001 y *Gryllomorpha (Gryllomorphella) uclensis* Pantel, 1890 para Portugal continental (Orthoptera, Gryllidae)**

**Resumen:** Se amplía el rango de distribución conocido de *Petaloptila fermi* Gorochov & Llorente 2001 y *Gryllomorpha uclensis* Pantel, 1890 (Orthoptera, Gryllidae) en Portugal continental. *Petaloptila fermi* la amplía hacia el oeste en la Sierra de Candeeiros. *Gryllomorpha uclensis* amplía su área de distribución conocida a dos municipios en Trás-os-Montes y hacia el oeste y el sur a Estremadura, Alentejo y Algarve.

**Palabras clave:** Orthoptera, Gryllidae, *Gryllomorpha uclensis*, *Petaloptila fermi*, nuevos registros, distribución, Portugal continental.

*Petaloptila (Petaloptila) fermi* Gorochov & Llorente 2001 was described from one male from “Casar de Palomera” and two females from “Las Hurdes” and “Jarandilla”, all sites from the province of Cáceres, Spain (Gorochov & Llorente, 2001). The species was recorded for the first time in Portugal in 2008 by Ferreira & Grosso-Silva (2008a). Field work conducted between 1999 and 2005 provided several new sites for the species on the Serra da Estrela Natural Park, where the species was collected between 550 and 1450 metres above sea level, in a variety of habitats which included open areas, mixed forests with predominance of oak and pine forest (Ferreira & Grosso-Silva, 2008a). Additionally, the identity of specimens previously identified as *P. (P.) aliena* by Aires & Menano (1915) from “Mata do Fundão” and “Sobreiral” was attributed to *P. (P.) fermi* (Ferreira & Grosso-Silva, 2008a). More recently the species has been recorded in Spain from 18 1 km<sup>2</sup> squares in the Monfragüe National Park and peripheral protection zone – Cáceres (Llucià-Pomares & Fernández-Ortín 2011).

The presence of *Gryllomorpha (G.) uclensis* Pantel, 1890 in Portugal was referred by Kirby (1906) and Chopard (1943) but lacked confirmation due to the absence of voucher specimens and precise localities (Fernandes, 1960; Gorochov & Llorente, 2001). In 2008, it was recorded for the first time in two localities of Vila Flor municipality (Trás-os-Montes): “Abreiro” and “Vilarinho das Aze-nhas”, representing an extension of its previously known range towards the north-west of Iberia (Ferreira & Grosso-Silva, 2008b; Gorochov & Llorente, 2001).

This paper presents new records of both species, *P. (P.) fermi* and *G. (G.) uclensis*, in continental Portugal. The material was collected using pitfall traps in Douro Internacional Natural Park (Trás-os-Montes), in Moura municipality (Alentejo) and in Monchique (Algarve). In Serra de Aire e Candeeiros Natural Park the material was collected by direct search.

*Petaloptila (P.) fermi* was recorded from one new site at Serra de Aires e Candeeiros Natural Park: **Porto de Mós (District of Leiria)**: Barroca (29SND1681 - 240m) 16-03-2014 (2 ♀♀) (ORTON col.) (2 ♂♂, 1 ♀) (S. Ferreira col.) (Figure 1).

*Gryllomorpha (G.) uclensis* was recorded in eight new localities, three in Douro Internacional Natural Park: **Miranda do Douro (District of Bragança)**: Fonte da Aldeia (29TQF1789 – 700m), 2001 (1 ♂) (S. Ferreira col.), Vila Chã de Braciosa (29TQF2188 - 710m), 05-09-2001 (1 ♂) (S. Ferreira col.), **Freixo de Espada à Cinta (District of Bragança)**: Mazouco (29TPF8559 - 730m), 05-09-2001 (1 ♂), 19-09-2001 (1 ♂), 30-10-2001 (1 ♀) (S. Ferreira col.). It was also recorded on three localities of Serra de Aire e Candeeiros Natural Park: **Porto de Mós (District of Leiria)**: Mendiga (29DND1473 - 472m), 26-10-2013 (1 ♂) (Barros col.), Monsanto (29SND2168 - 157m), 26-11-2010 (1 ♀) (Barros col.), São Bento (29SND1974 - 545m) 26-10-2013 (1 ♂) (Barros col.) and on two localities in the south of the country: **Moura (District of Beja)**: Pomares de Baixo (29SPC3919 - 185m) 12-09-2007 (1 ♂), 15-10-2007 (3 ♂♂) (Moura col.) **Monchique (District of Faro)**: (29SNB 3530 - 780m) Fóia 16-09-2007 (1 ♂, 3 ♀♀) (CIBIO-UP col.) (Fig. 1).

The present work extends the distribution range of both species to the south-western part of Portugal. *Petaloptila (P.) fermi*, previously only known in Portugal from Estrela and Gardunha Mountain ranges, extends its distribution to the west to the Candeeiros Mountain range, where it was found in open limestone areas at 240 m above the sea level. This range extension indicates that the species is probably more widely distributed along the Iberian Central System.

*Gryllomorpha (G.) uclensis* was only previously known in Portugal from one municipality in Trás-os-Montes (Ferreira & Grosso-Silva, 2008b). In this work its range is expanded in two other municipalities in Trás-os-Montes and towards west and south to Estremadura, Alentejo and Algarve. Given the new records and its wide distribution in Spain, this species is probably widespread in Portugal, but more studies are required to understand its real distribution in the country.

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**Fig. 1.** Known distribution of *Petaloptila (Petaloptila) fermini* Gorochov & Llorente, 2001 and *Gryllomorpha (Gryllomorphella) uclensis* Pantel, 1890 in continental Portugal. Empty symbols represent bibliographic records, black symbols represent new records. // Distribución conocida de *Petaloptila (Petaloptila) fermini* Gorochov & Llorente, 2001 y *Gryllomorpha (Gryllomorphella) uclensis* Pantel, 1890 en Portugal continental. Los símbolos vacíos representan registros bibliográficos y los símbolos negros representan nuevos registros.

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