

## Misidentified record of *Tessellana orina* (Orthoptera, Tettigoniidae) in Serbia

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### Abstract

*Tessellana orina* was erroneously reported from Serbia, and that error originated from a misidentification of a *T. carinata* specimen. This short note explains circumstances and reasons of that misidentification.

### Zusammenfassung

*Tessellana orina* wurde irrtümlich für Serbien angegeben. Dieser Irrtum beruht auf einer Fehlbestimmung eines Tieres von *T. carinata*. Der vorliegende Text erklärt die Umstände und den Grund für diese Fehlbestimmung.

### Introduction

Orina Slender Bush-cricket, *Tessellana orina* (Burr, 1899), a species distributed in western part of the Balkan Peninsula (Fig. 1) (HOCHKIRCH et al. 2016), has been reported by PAVIĆEVIĆ et al. (2018) as new for the fauna of Serbia, from the locality Pčinja, Starac Mt. (600 m). Report included photos of a male and female with a description "*Tessellana orina* (Burr, 1899), male (Photo: L. Horvat)" (Fig. 2) and "*Tessellana orina* (Burr, 1899), female (Photo: L. Horvat)" However, an examination of photos and previously collected material, has shown they do not belong to *T. orina*, but to another species: *T. carinata*.

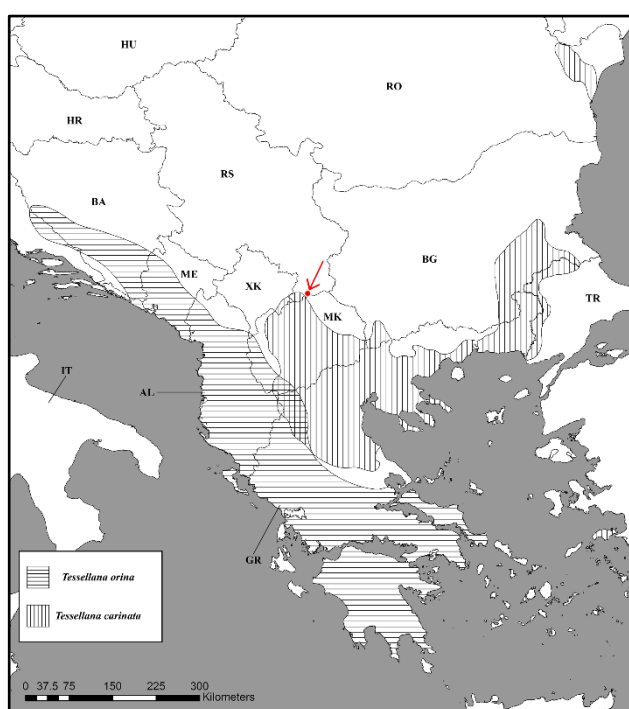


Fig. 1:  
A map showing the distribution of *Tessellana carinata* and *T. orina* in Europe. Red dot represents locality published in this paper. Country names given on the map are in ISO 3166–1 Alpha-2 codes.



Fig. 2: *Tessellana carinata*, male and detailed view of a keel on the pronotum. Photo: L. Horvat.

## Material and Methods

During field trip to southern Serbia on 7.8.2013, authors collected two male specimens of *T. carinata* in an open meadow with tall grass vegetation near the Pčinja River (N 42.336°, E 21.904°). Specimens were pinned, dried and preserved in the author's private collection.

## Results and Discussion

An examination of the photos presented in a "Red Data Book of Fauna of Serbia. 4, Orthoptera" and preserved material shown that they do not belong to *T. orina*, but to *T. carinata*. These two species are easily differentiated by the evident keel present along the entire length of the pronotum (Fig. 2) in *T. carinata*, while in *T. orina*, the keel is evident only in the metazona (MASSA & FONTANA, 2011, WILLEMSE et al. 2018).

*T. carinata* was already reported as present in Serbia during preparation of European Red List of Grasshoppers, Crickets and Bush-crickets (CHOBANOV et al. 2016) (Fig. 1) based on specimens presented in this paper. Therefore, the records of *T. orina* (published by PAVIĆEVIĆ et al. 2018) and *T. nigrosignata* (published by HARZ 1969) reported from the same area (Southern Serbia) are both actually records of *T. carinata*.

Although we have confirmed the presence of *T. carinata* in Serbia, the exact distribution of the species remains uncertain. Southern Serbia in orthopterological

sense is no doubt an insufficiently investigated area, since in just few short field trips we managed to find several species new for the country, therefore, it is to be expected further research of this area will bring many new interesting findings.

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