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INTRODUCTION

Odontopodisma rubripes is a characteristic Orthoptera species of the north-eastern part of the Great Hungarian Plain. The area of this Carpathian sub-endemic grasshopper covers the eastern part of the Carpathian Basin including Northeast Hungary and the western part of Transylvania. Formerly, we had only sporadic distribution data from forest refuges and bogs near Lónya, Csaroda, Barabás, Tarpa, Szatmárcseke, Gulács Kömörő, and Bátorliget villages. Considering these data, *O. rubripes* prefers meadows with diverse vegetation structure including mostly wet grasslands with shrubs however collaterally occur in forest edges, clearings and hedges of cultivated areas.

MATERIALS AND METHODS

We studied *O. rubripes* in 2005-2007 in order to approve and complete our knowledge on distribution of the species. Considering habitat preferences we appointed potential habitats of the species by maps (1:10000) and air photos then searched populations by direct search and sweep netting.

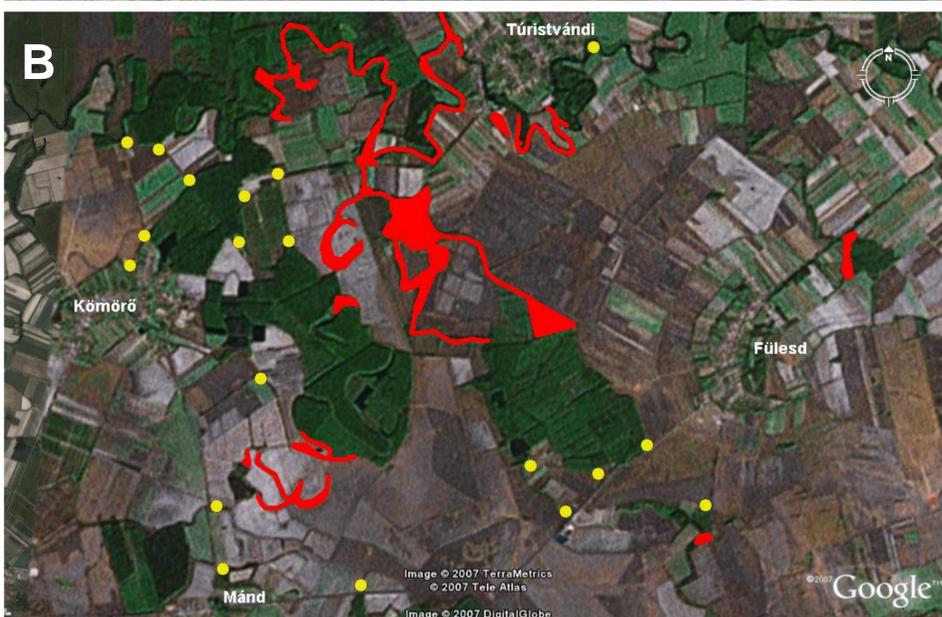
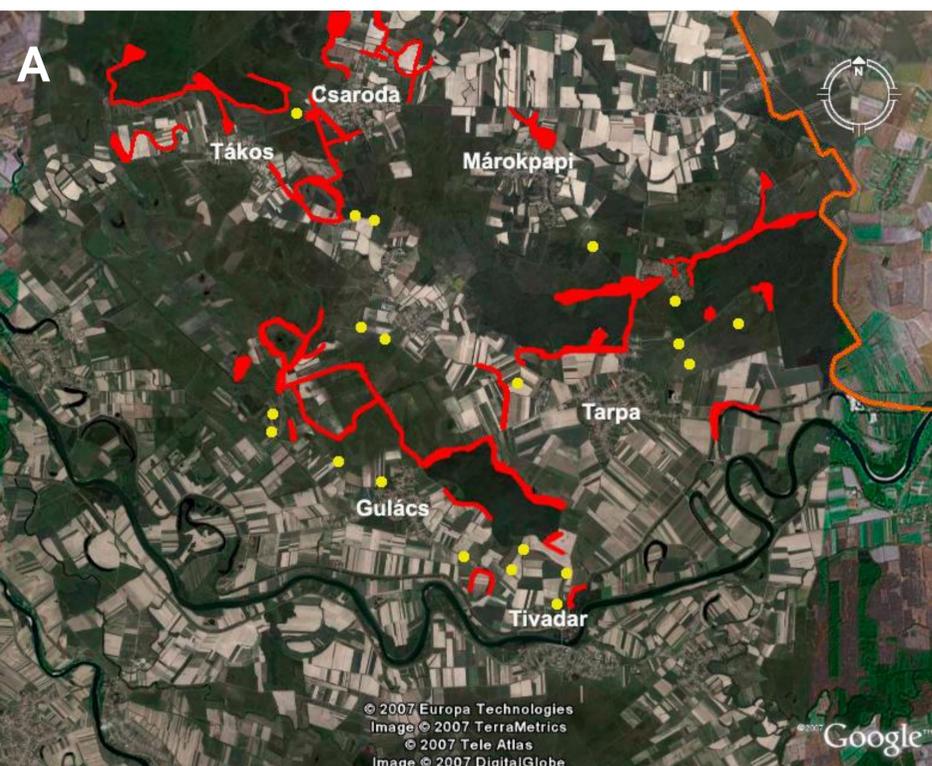


Fig. 2. Two examples of the detailed distribution map of *Odontopodisma rubripes*. A: surroundings of Tarpa – Tivadar – Csaroda villages, B: surroundings of Fülesd - Túristvándi – Kömörő villages. Red: areas (continuous habitat patches) where the species were found in 2005-2007; yellow dots: sites where the species not found in 2005-2007; orange line: country border.

RESULTS AND DISCUSSION

During the study we proved the occurrences of the species at several new location, while the former occurrence near Lónya could not be proved (Fig. 1.). According to new data in Hungary, the area of *O. rubripes* is more continuous and larger than previously assumed. The largest population lives in edges and clearings of forest refuges and large bogs of the Bereg and the Szamos-hát. The connection between these populations maintained by hedges and shrub patches as narrow corridors (Fig. 2A-B.).

Considering management and protection of the species, maintenance of corridors and monitoring are particularly important.

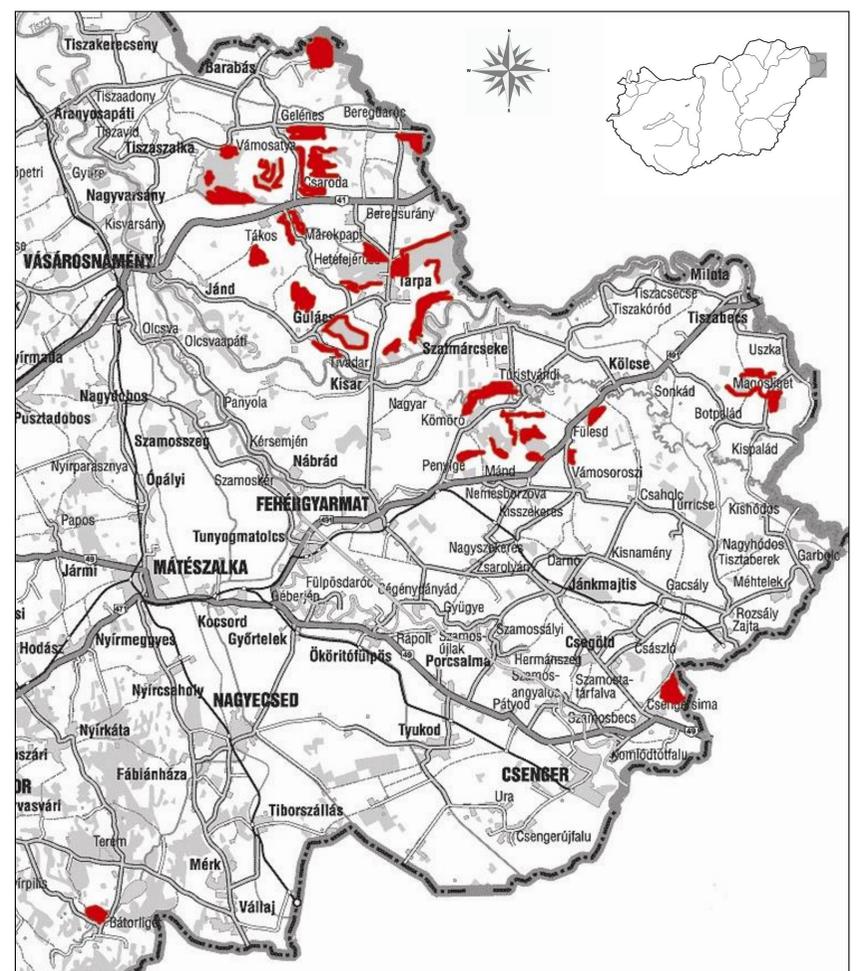


Fig. 1. Distribution of *Odontopodisma rubripes* in Northeast Hungary on the basis of data from 2005-2007. Red: areas where the species were found in 2005-2007.



O. rubripes female from Túristvándi in 2007 and typical habitats (forest edge and hedge) of the species.



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