

Rezultati kartiranja dnevnih metuljev na Goričkem

Results of butterfly mapping in Goričko

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Goričko

- NE part of Slovenia
- 460 km²
- hilly landscape (average altitude is 275 m)
- the lowest precipitation in Slovenia (800 mm)
- agriculture
- eastern/western part

- landscape park and Natura 2000 site
 - *P. teleius*
 - *P. nausithous*
 - *L. dispar*
 - *C. myrmidone*
 - *E. aurinia*



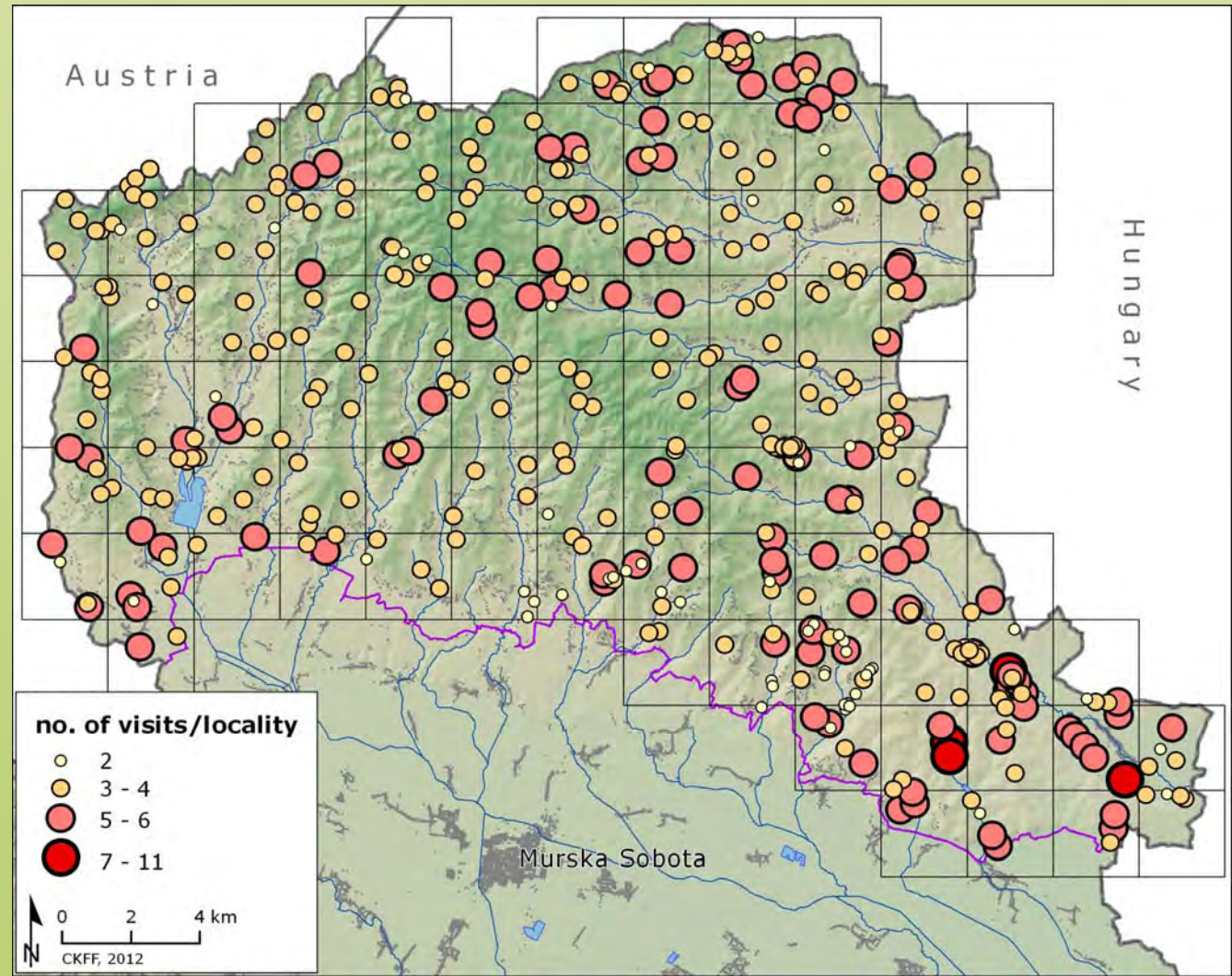
What we knew before?

- Student research camp Šalovci 1999 (Verovnik 2000)
 - 2006: mapping of Large Blues (*Phengaris* spp.) at Goričko – PHARE Cross Border Cooperation Programme Slovenia Austria 2003 (Rebeušek et al. 2006)
-

111 species of butterflies

Methods

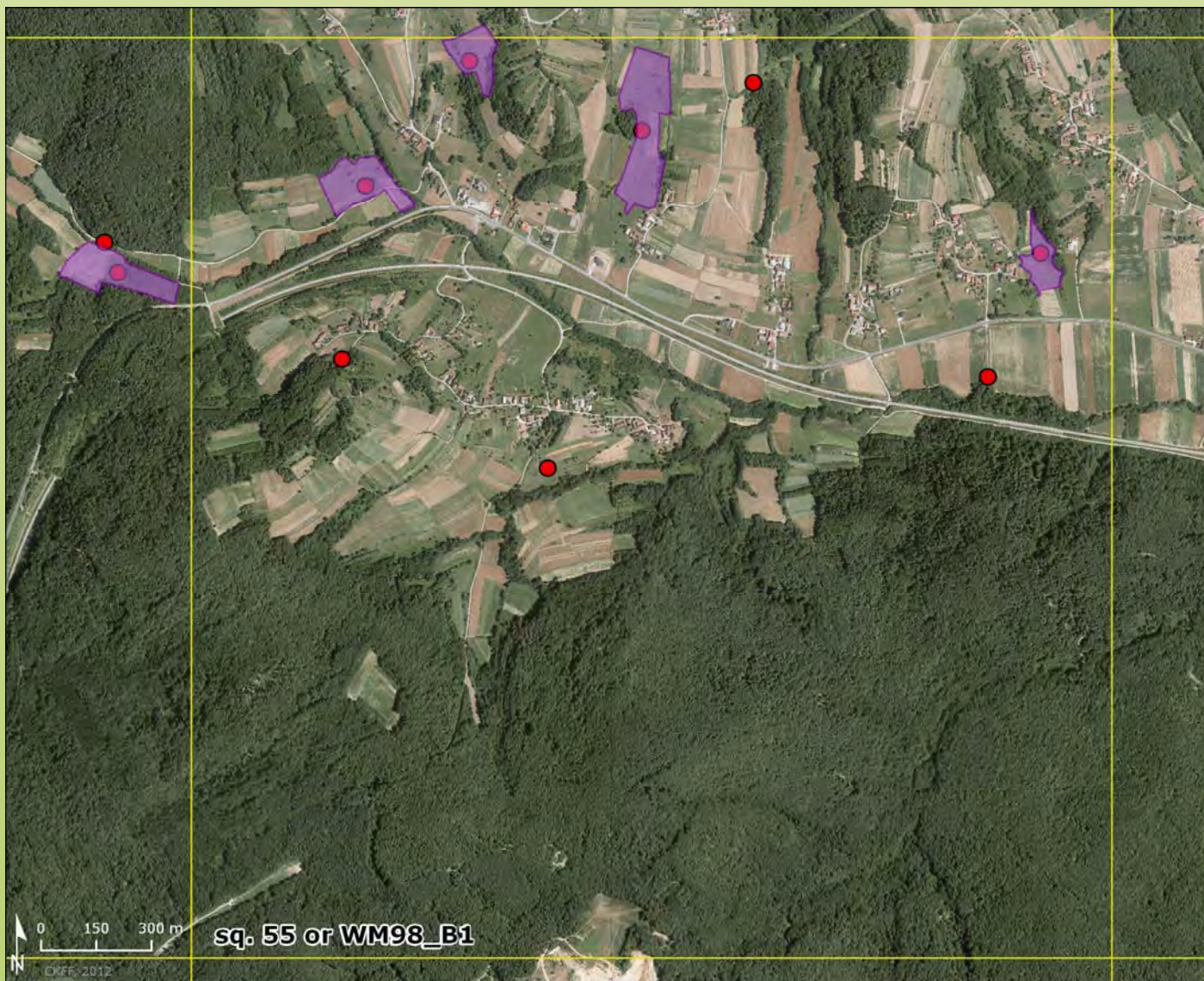
- polygons



Methods

- polygons
- additional searching of selected species (*P. mnemosyne*, *P. aegeria*, *P. alcon* ...)
- coincidental findings (*N. antiopa*, *N. polychloros*)
- eggs searching (*T. betulae*, *P. alcon*)
- examination of male genitalia (*Melitaea britomartis/aurelia*)
- determination of *Leptidea sinapis/reali*
- searching for caterpillars of *Phengaris teleius* and *P. nausithous* (May, June 2012)

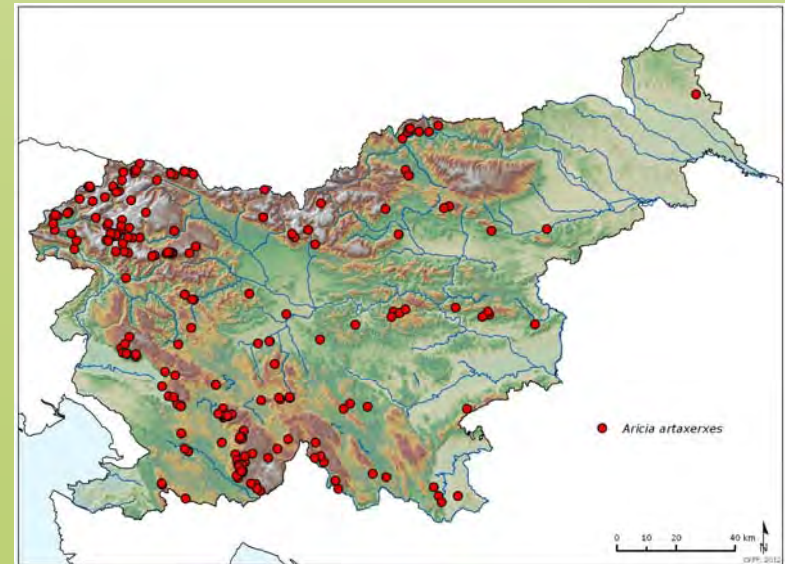
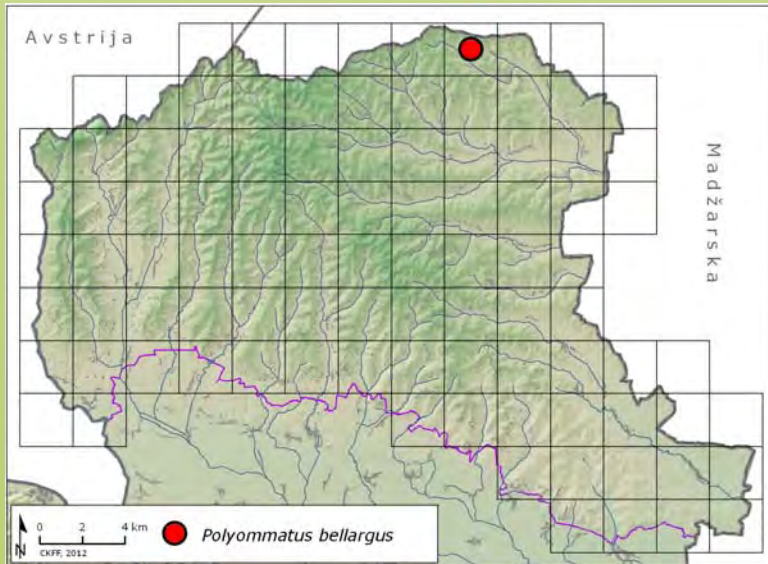
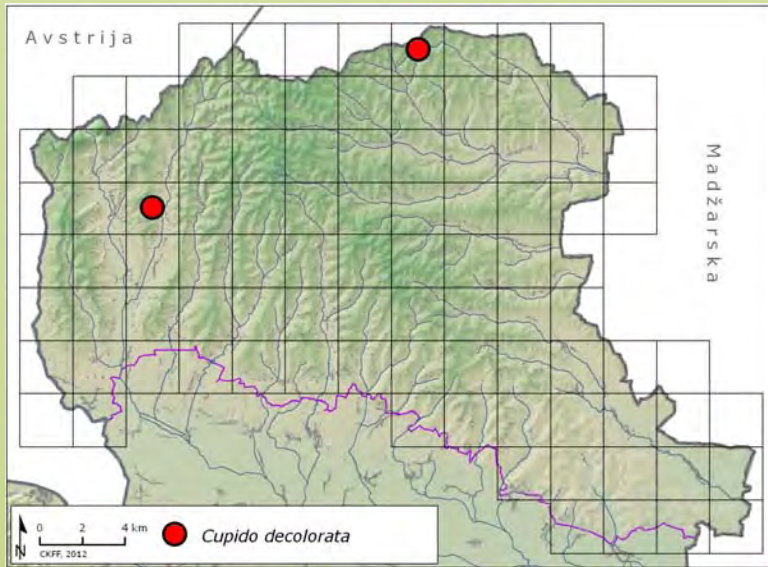
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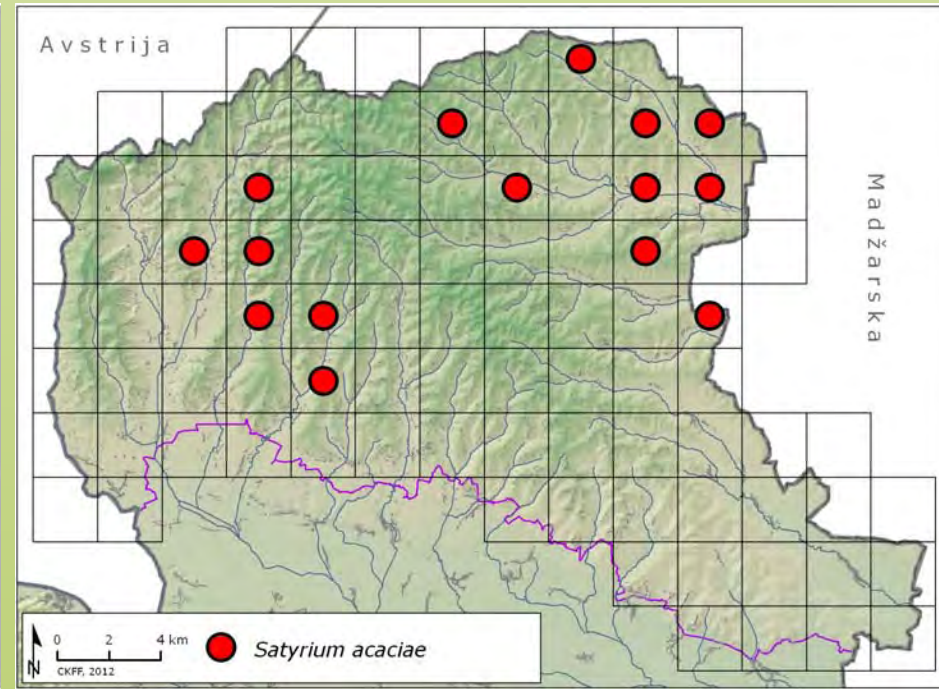
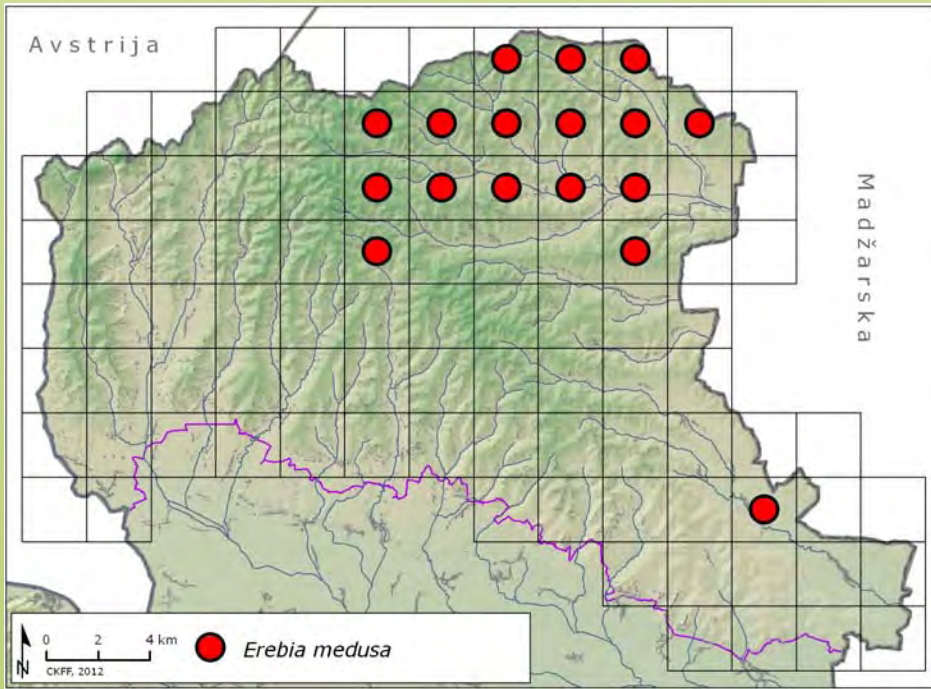
Results

- 964 localities
- 28.404 records
- 99 species
 - 16 unconfirmed species
 - 5 new species
 - *Aricia artaxerxes*
 - *Polyommatus bellargus*
 - *Cupido decolorata*
 - *Erebia medusa*
 - *Satyrium acaciae*
 - *Spialia sertorius*
 - *Zerynthia polyxena*
 - *Colias alfacariensis*
 - *Polyommatus coridon*
 - *Argynnis niobe*
 - *Brenthis hecate*
 - *Chazara briseis*
 - *Pyrgus alveus*
 - *Colias myrmidone*
 - *Colias erate*
 - *Lycaena alciphron*
 - *Leptotes pirithous*
 - *Polyommatus daphnis*
 - *Limenitis reducta*
 - *Limenitis populi*
 - *Boloria euphrosyne*

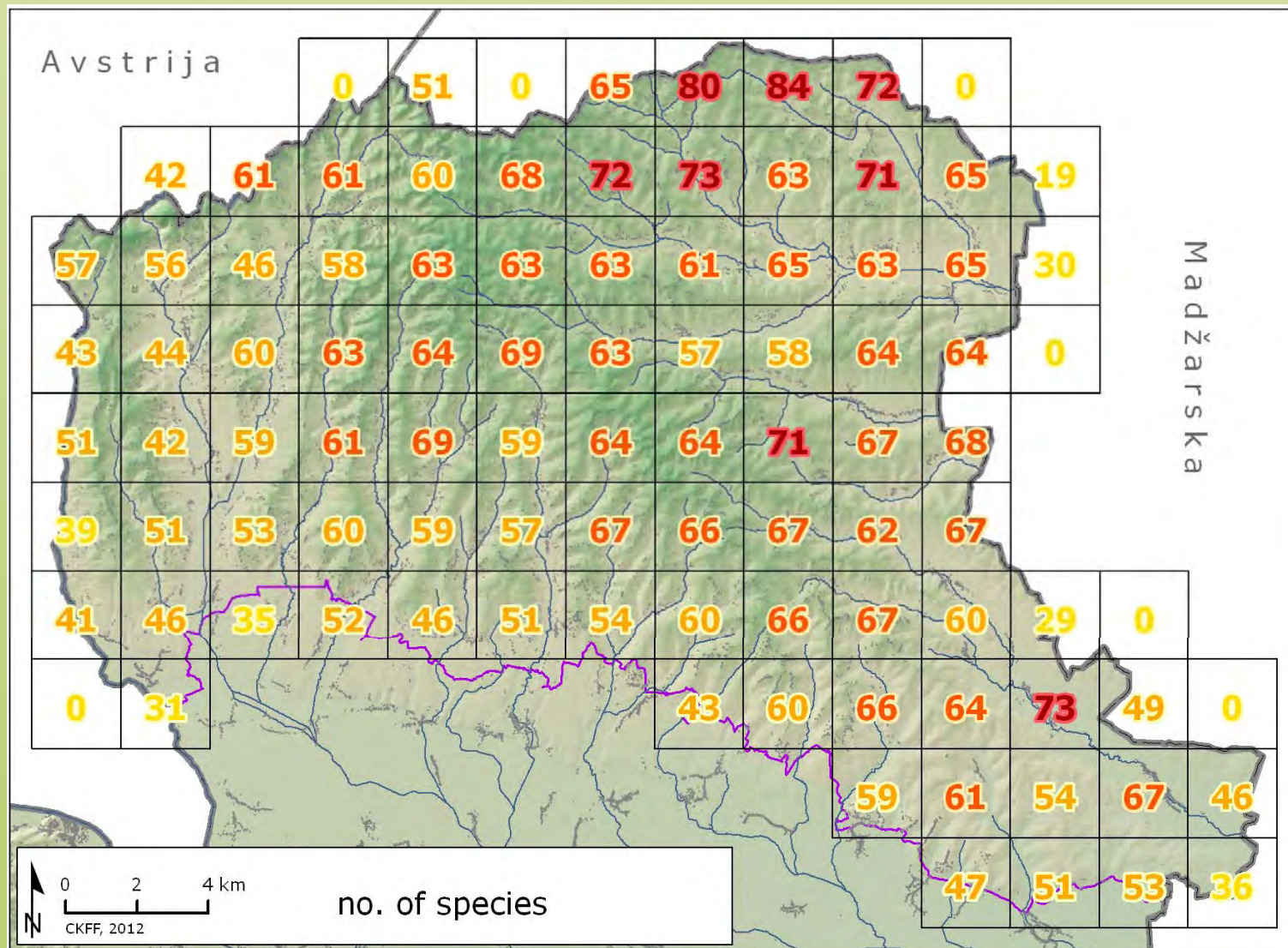
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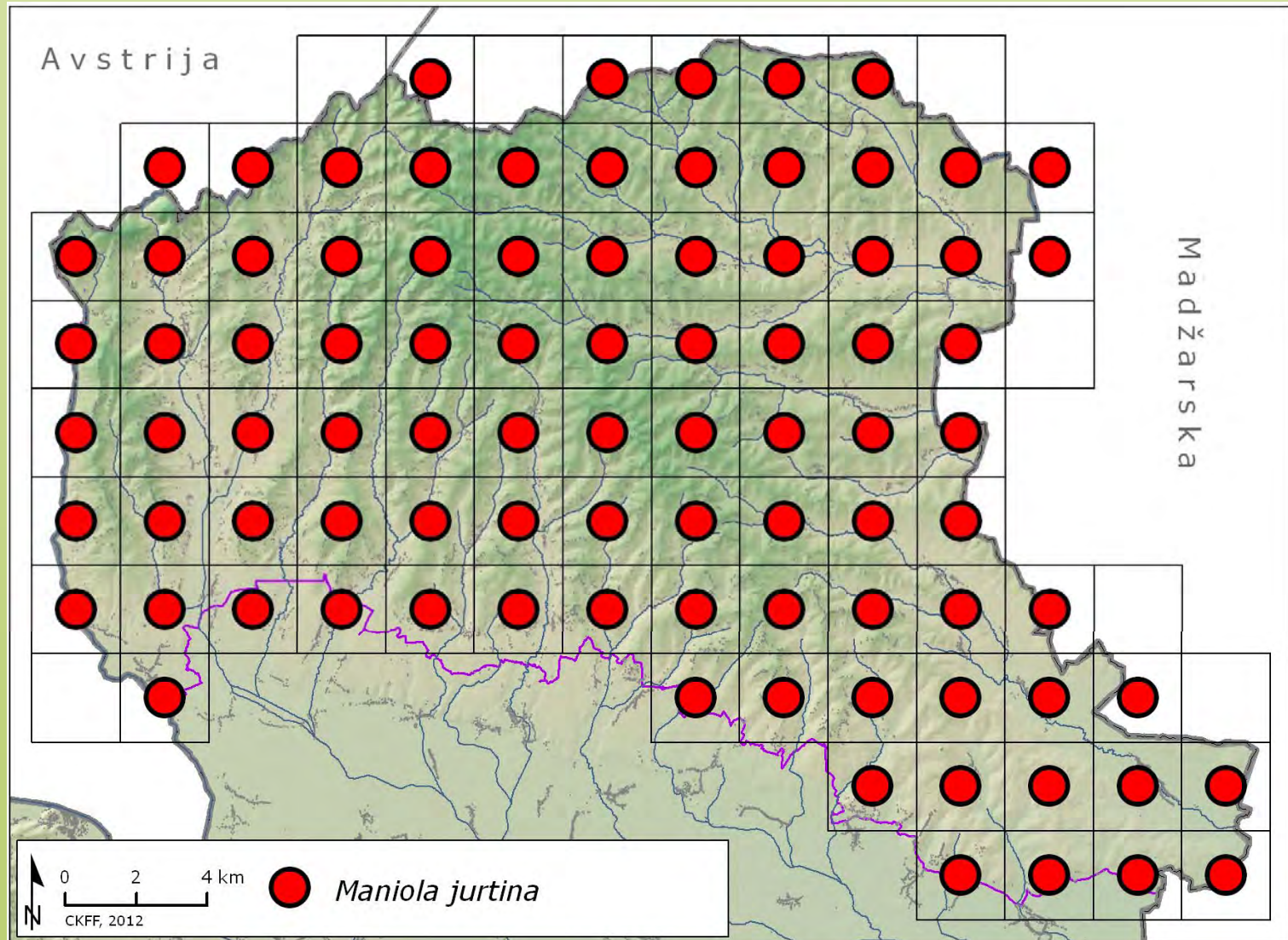
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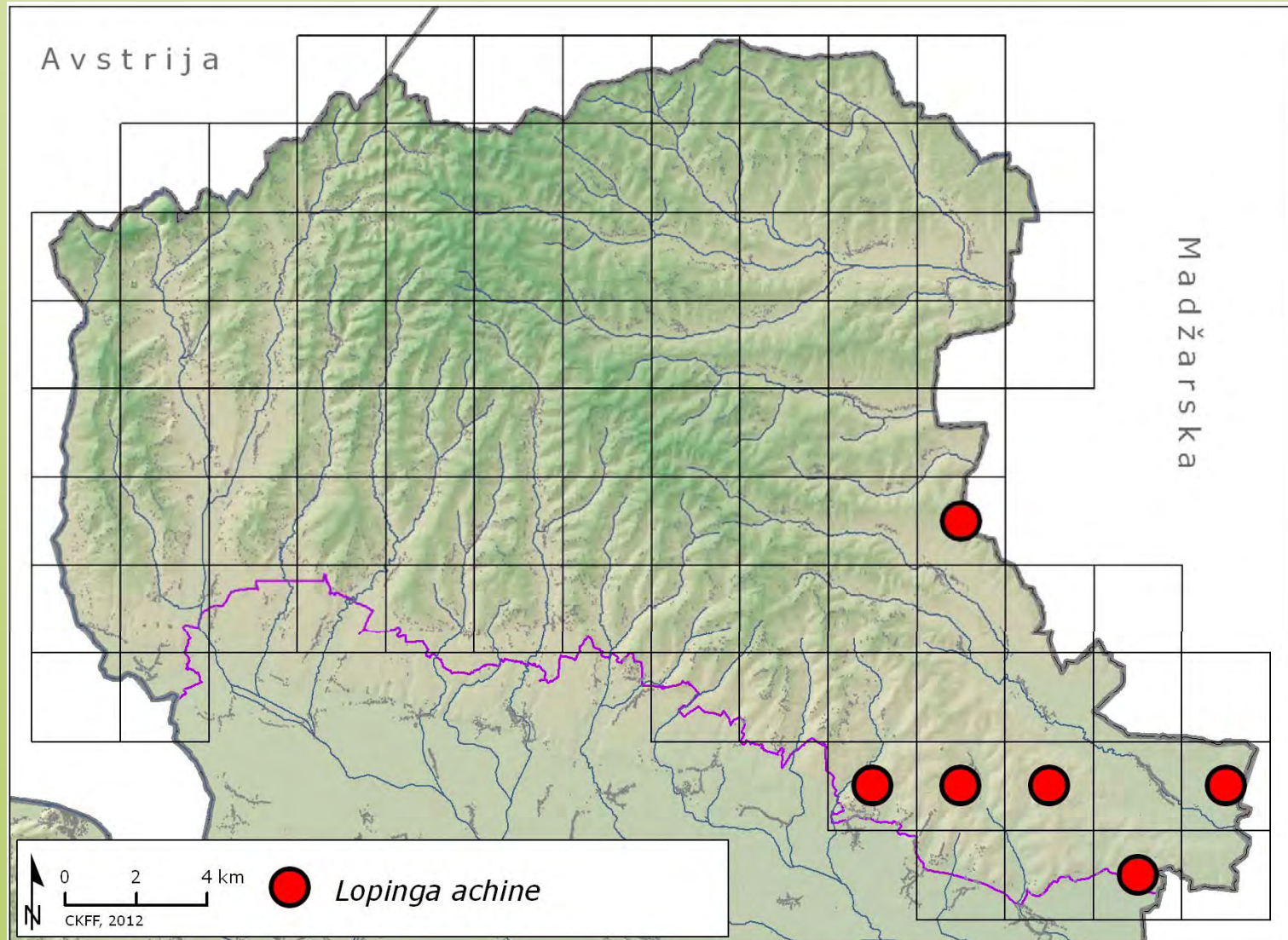
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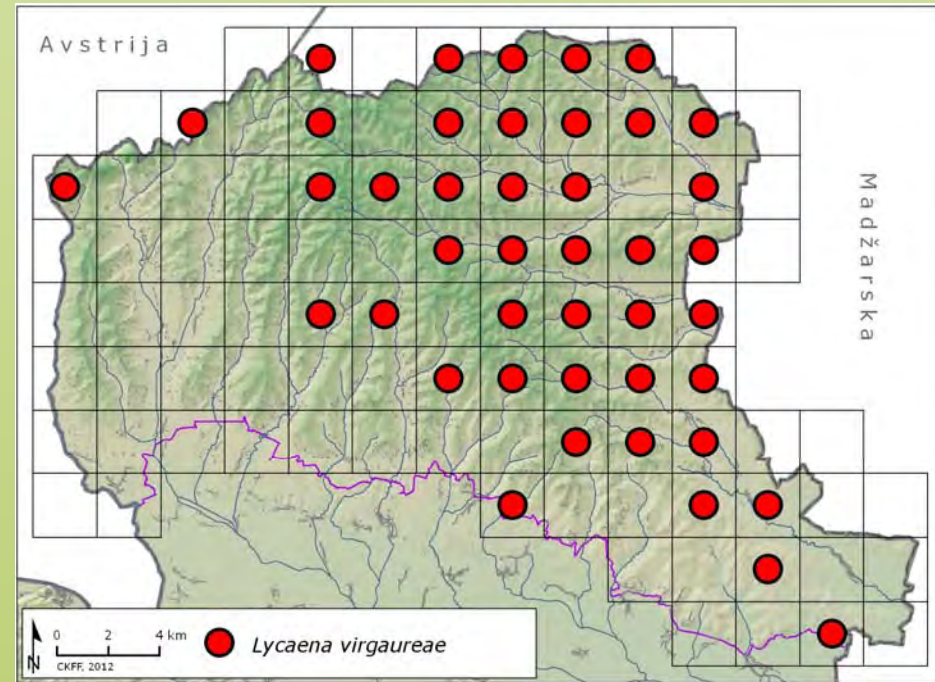
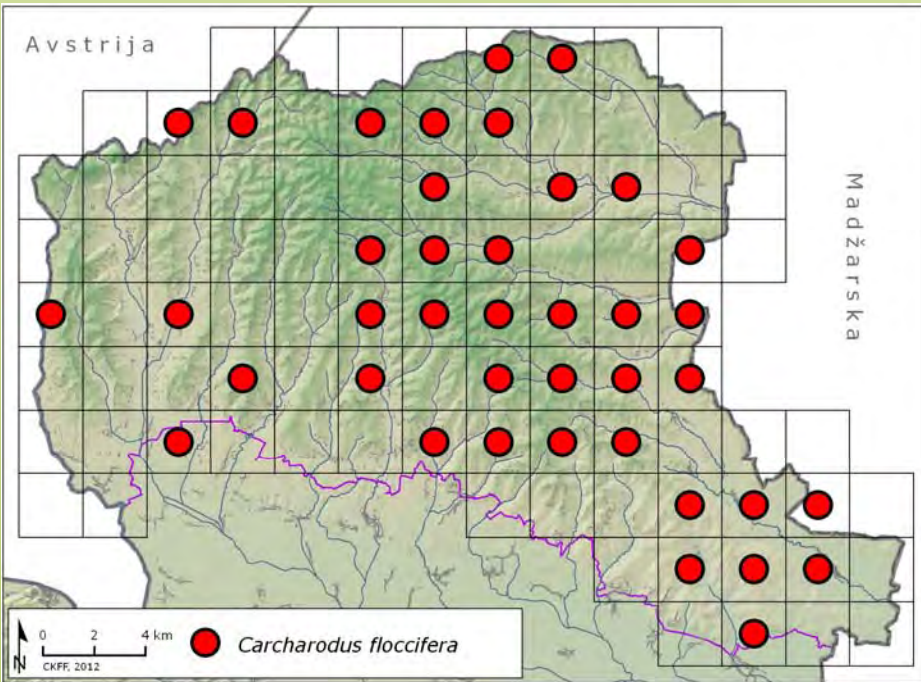
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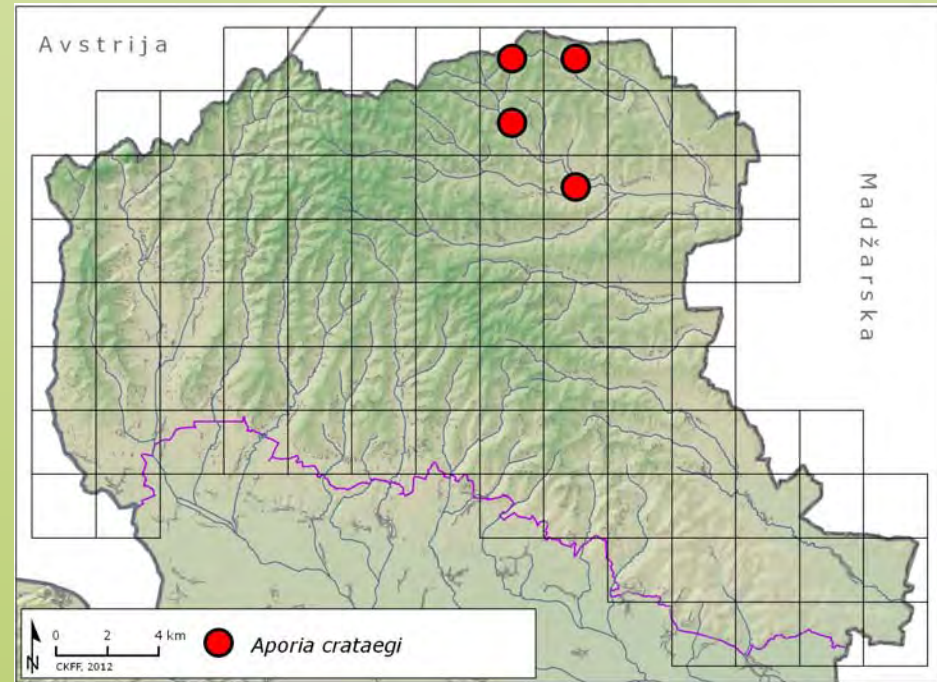
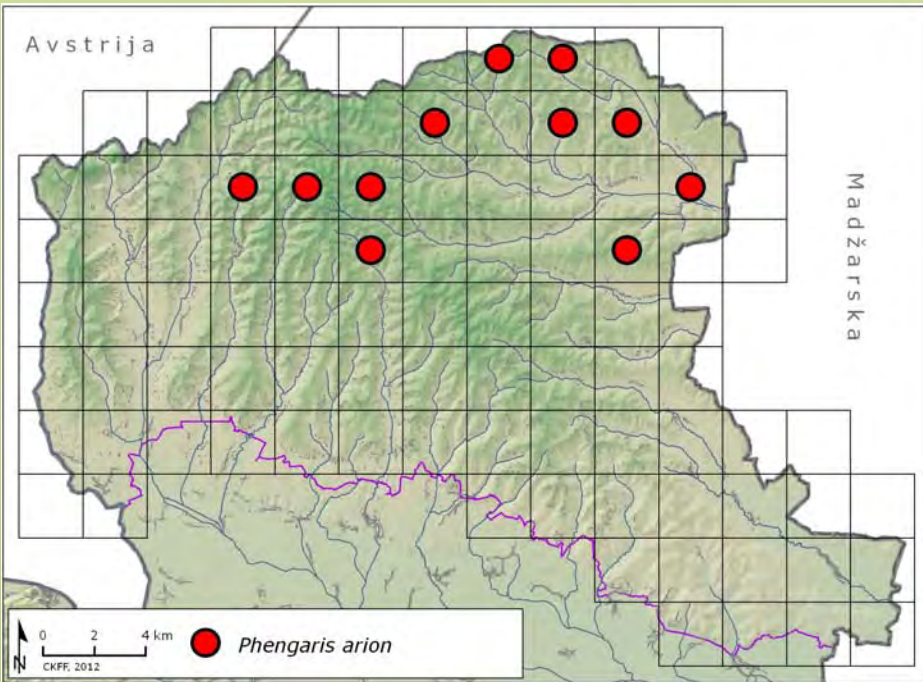
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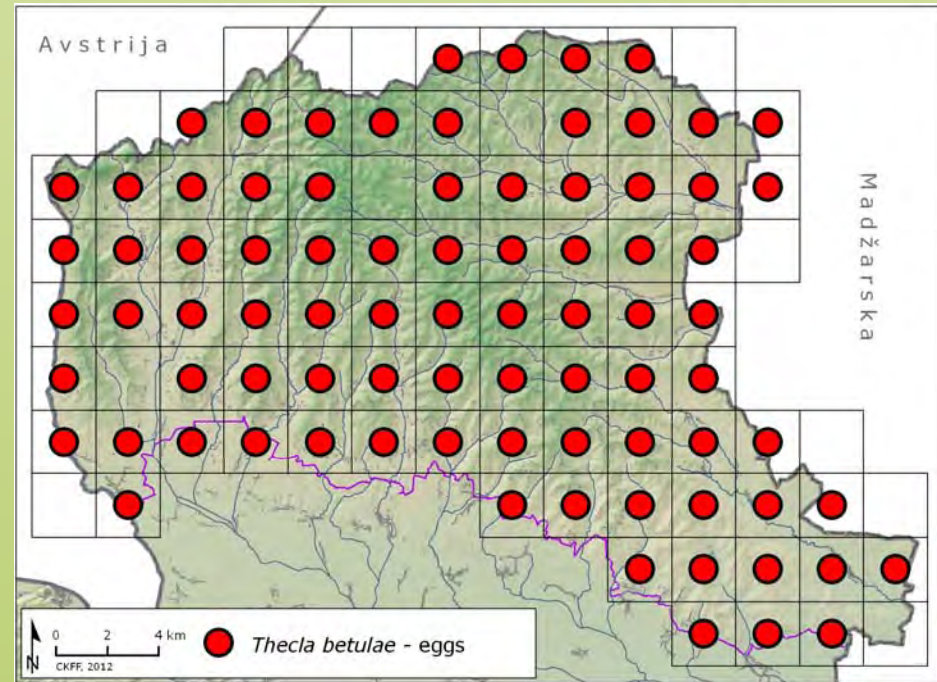
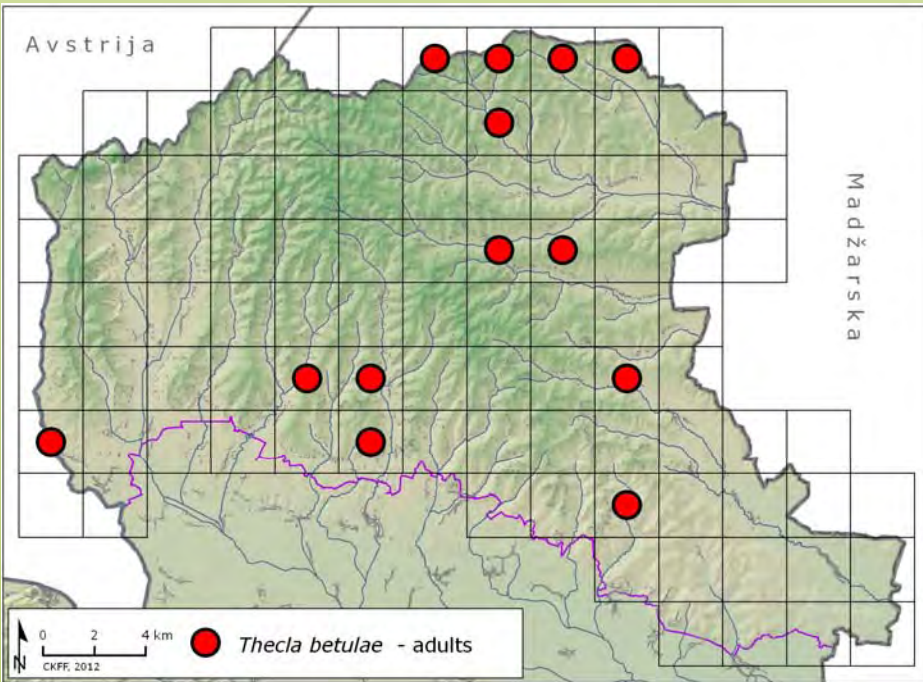
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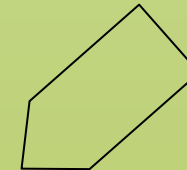
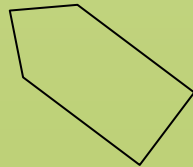
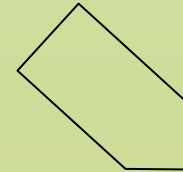
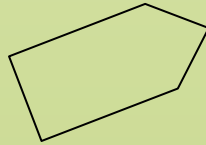
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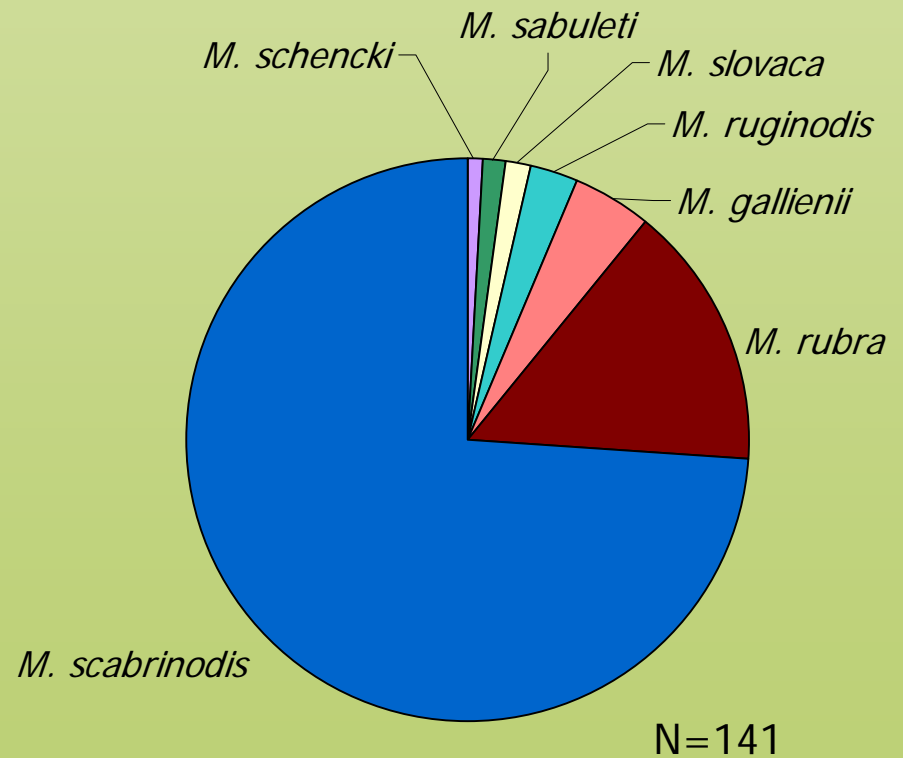
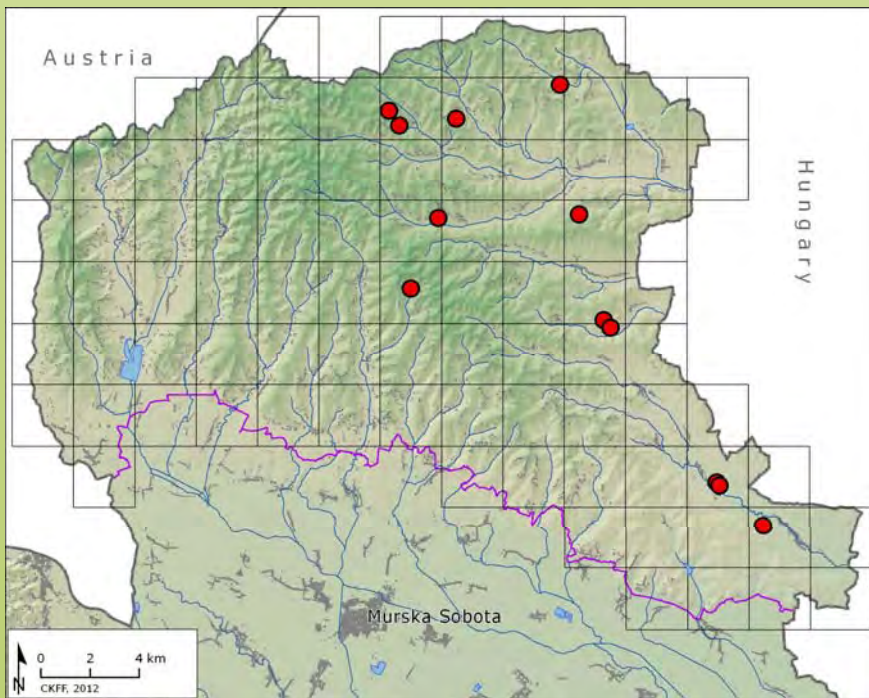


Looking for ants ...

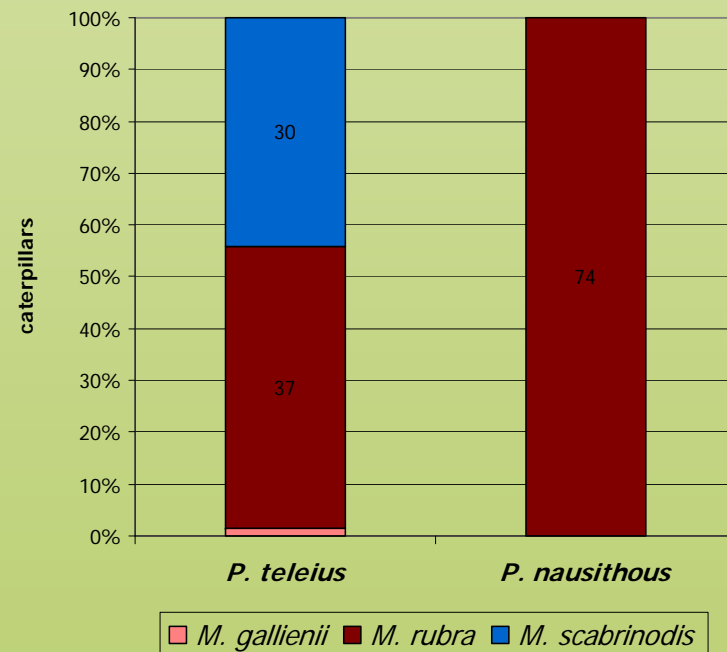
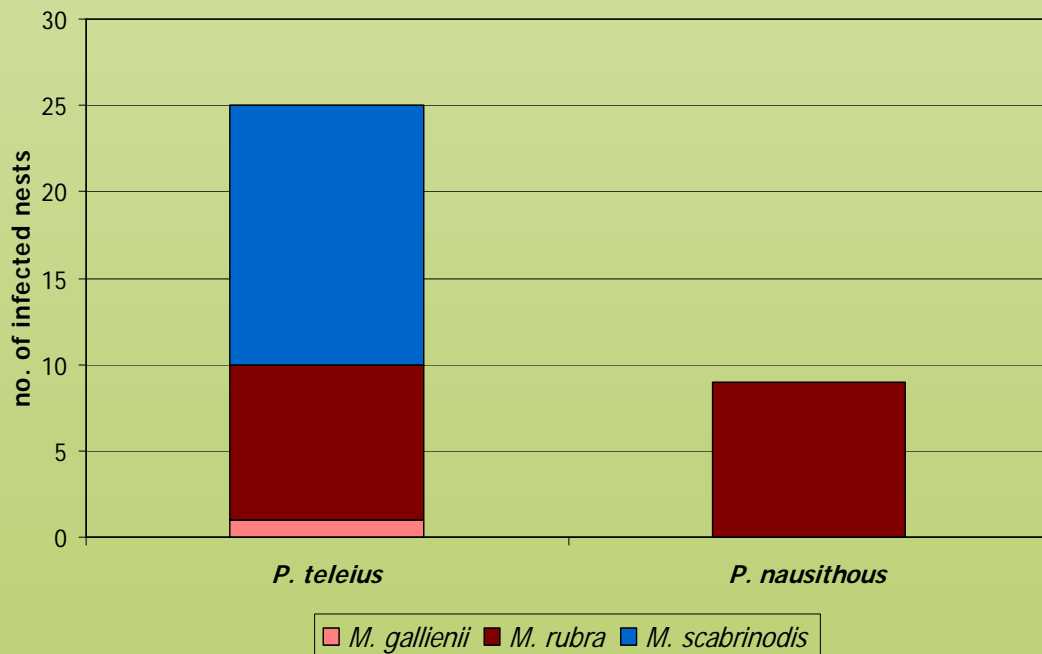


Looking for ants ...

- 12 meadows
- 141 checked ant nests
- 7 *Myrmica* ant species

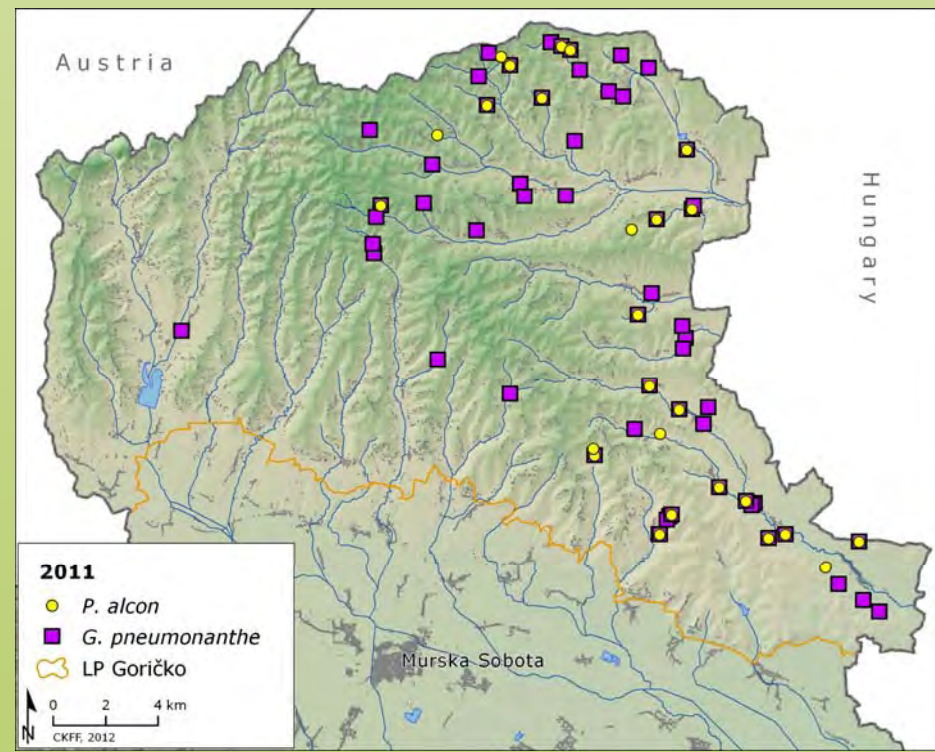
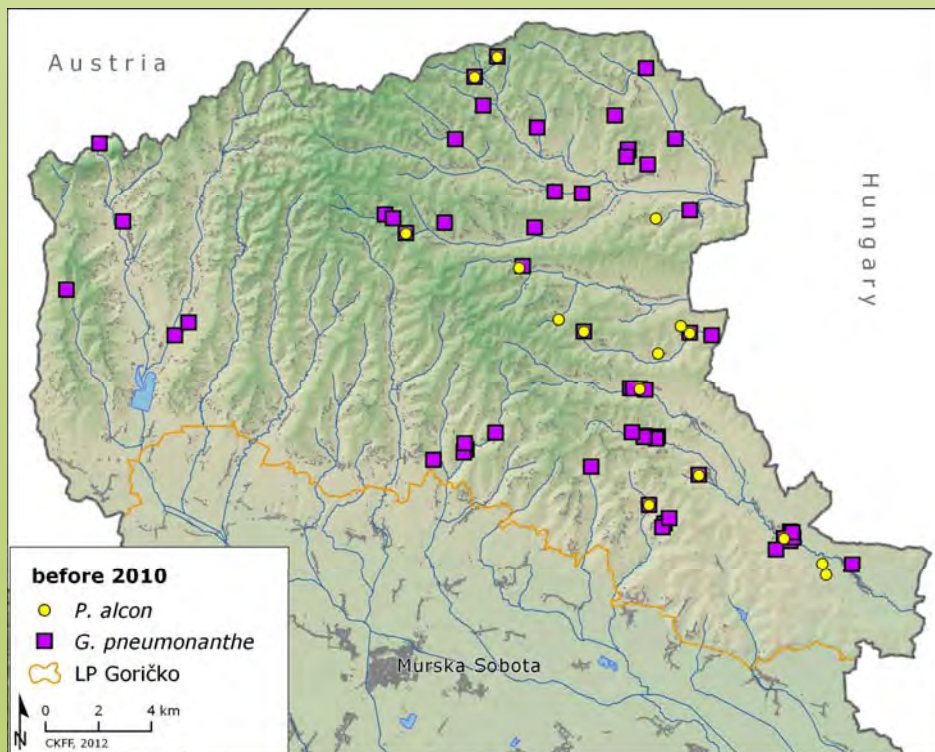


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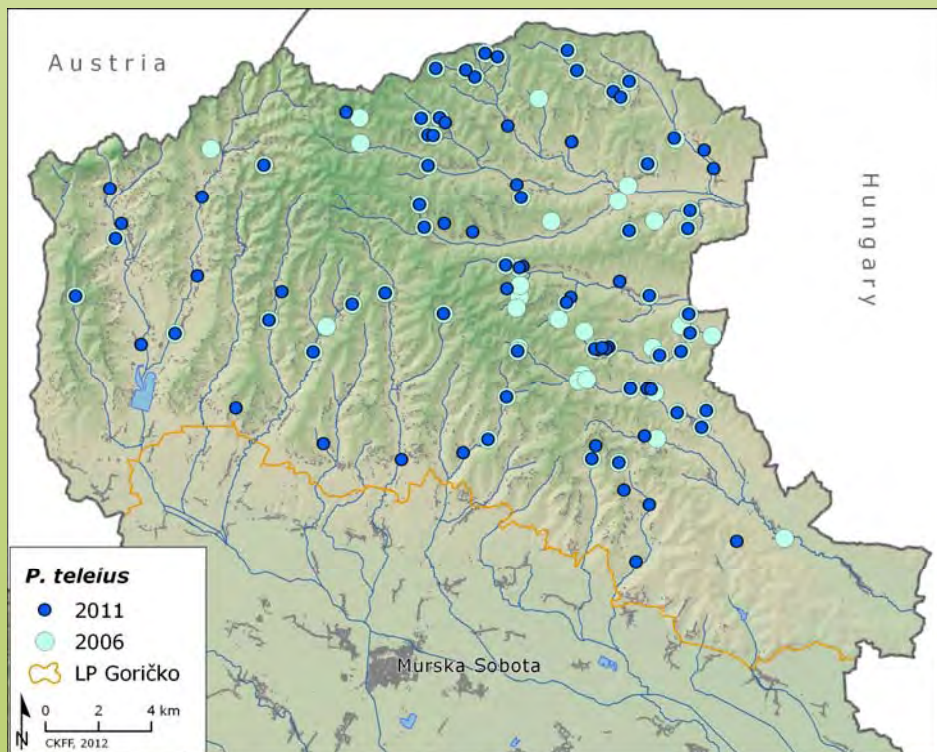
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- 73% patches with *G. pneumonanthe* disappeared
- *P. alcon* was recorded just on 36% of formerly known sites



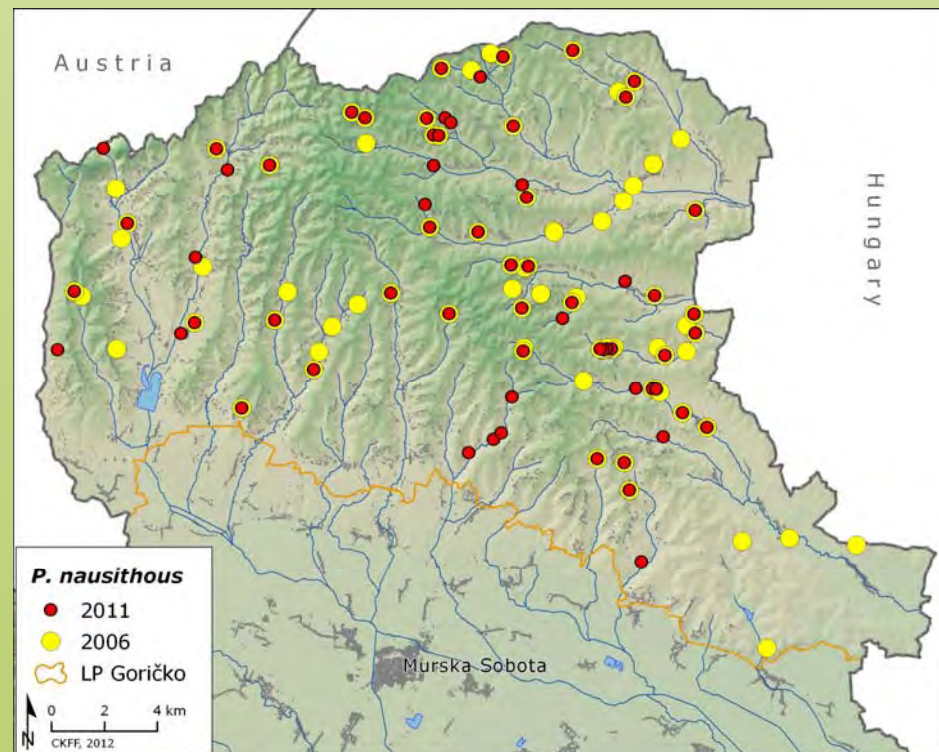
Phengaris teleius

- 83 patches occupied in 2006
- 68% of these were still occupied in 2011
- in addition 30 patches unoccupied in 2006 were noted in 2011



Phengaris nausithous

- 82 patches occupied in 2006
- 55% of these were still occupied in 2011
- in addition 20 patches unoccupied in 2006 were noted in 2011



Thank you for your attention!