



“Biodiversity crisis in a changing world”

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Book of Abstracts

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# Effects of an invasive plant, the sand dropseed (*Sporobolus cryptandrus*) on arthropod assemblages in sand habitats of Hungary

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## Sand dropseed

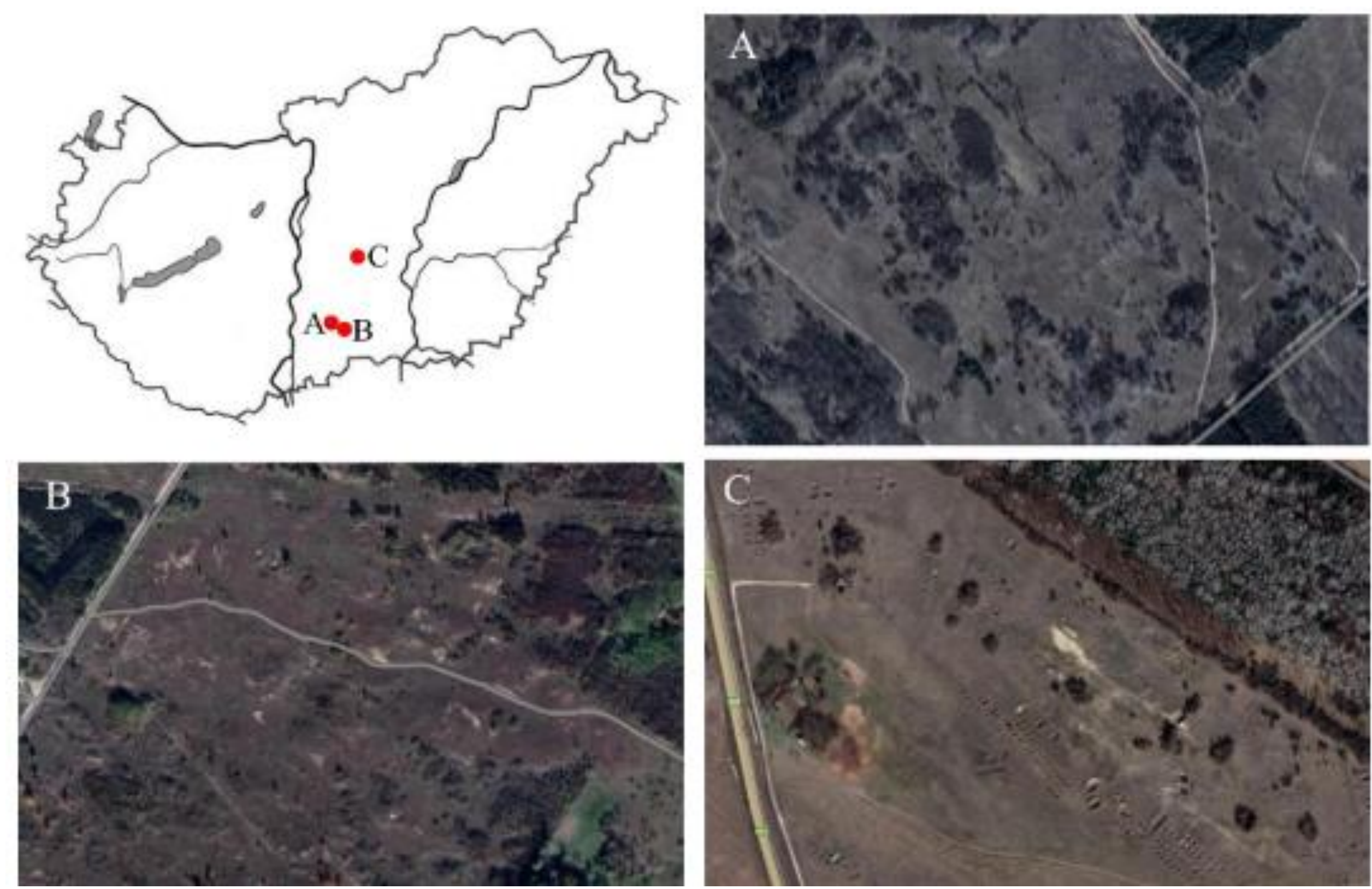
- Origin: North-America
- Dry habitats (C4 plant), characteristic plant of prairie
- Occurrence: Europe, Asia, Australia
- First record in Hungary: 2016
- Fast spreading in sand areas
- Strong effects on sand vegetation
- Steppe transformation

## Questions

- Does sand dropseed invasion affect arthropod communities?
- Do possible effects of sand dropseed invasion differ between different arthropod groups?

## Sampling

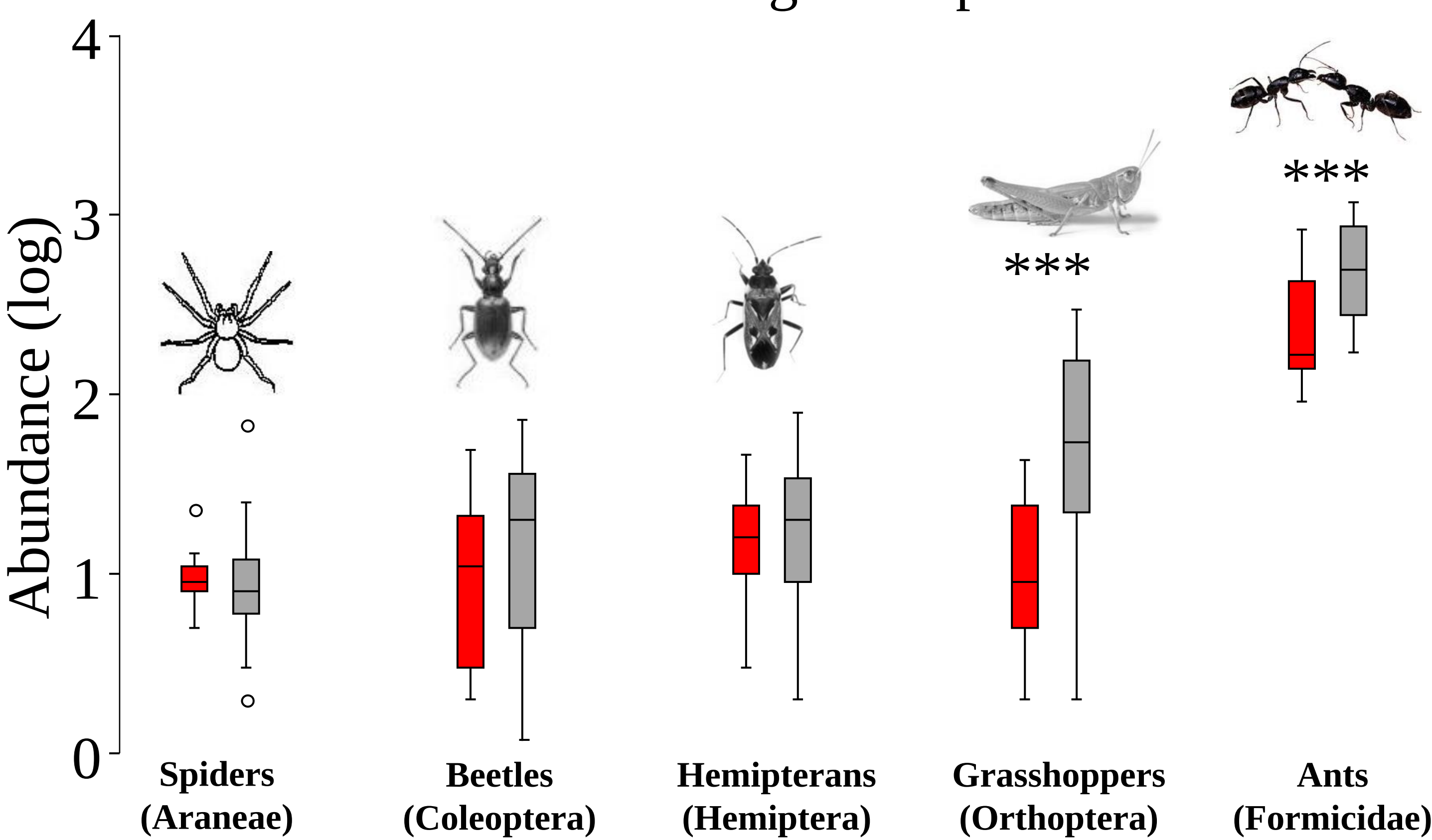
- Three habitat types: forest-steppe (A), open sand grassland (B), and degraded sand grassland (C)
- Invaded and control (non-invaded) plot-pairs in five sites in each habitat type
- Pitfall trapping, sweep netting
- GLMM, negativ binomial



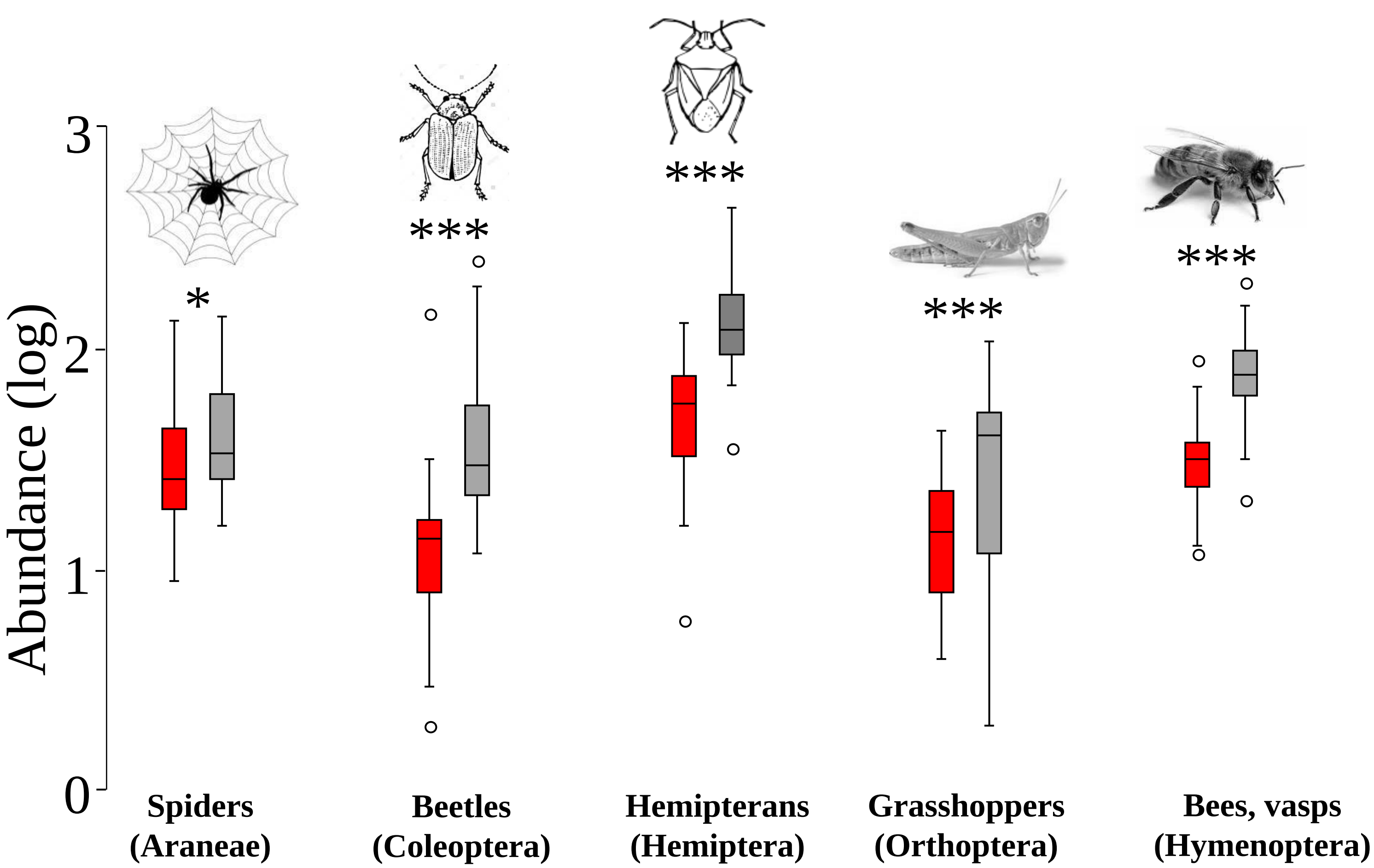
## Preliminary results

■ invaded ■ control

### Ground-dwelling arthropods



### Plant-dwelling arthropods



## Conclusions and further aims

- Strong negative effects particularly on plant-dwelling arthropod abundance
- Further analyses: species richness and composition, trait-based approaches, possible interacting effects between invasion and habitat types