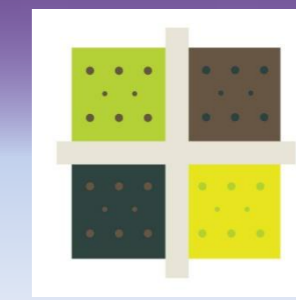


Ground beetles (Coleoptera: Carabidae) from pastures in Southern Bulgaria



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Habitat

10 actively grazed pastures

Thracean Lowland: near the villages of Malak Chardak, Kostievo, Stryama, Momino Selo, Dobrich and Stalevo
Sarnena Sredna Gora Mts.: near the village of Zelenikovo

Model organisms
Ground beetles
(Coleoptera: Carabidae)



Results

Captured beetles belonged to **90 species** and **33 genera**, representing 12% of the species and 26% of the genera in Bulgaria

The most diverse was genus *Harpalus* (22 species), followed by the genera *Amara* (7 species), *Microlestes* (6 species), *Ophonus* (6 species) and *Parophonus* (5 species).

Microlestes minutulus was a constant species occurring in all sampling sites.

New species for the Thracean Lowland:

Amara fulvipes, *Anisodactylus binotatus*, *A. intermedius*, *Apotomus clypeonitens*, *Calathus cinctus*, *Carterus gilvipes*, *Gynandromorphus etruscus*, *Harpalus fuscicornis*, *H. subcylindricus*, *Microlestes apterus*, *M. corticalis*, *M. fulvibasis*, *M. maurus*, *M. minutulus*, *Notiophilus laticollis*, *Pangus scaritides*, *Parophonus laeviceps*, *P. planicollis*, *Polystichus connexus* and *Pterostichus strenuus*

New for the whole Sredna Gora Mts.:

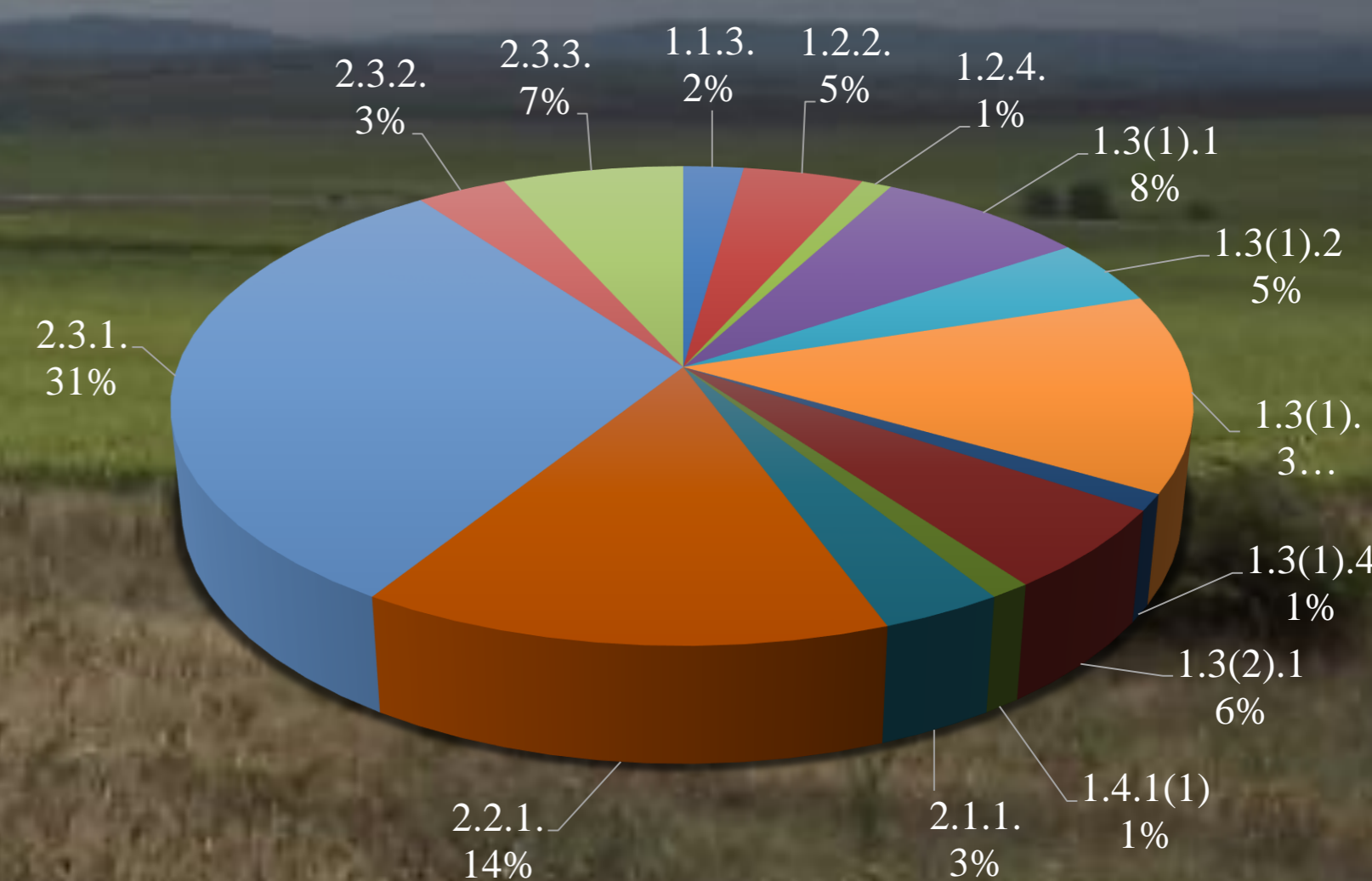
Acinopus picipes, *Acinopus megacephalus*, *Amara anthobia*, *Ditomus calydonius*, *Harpalus albanicus*, *H. angulatus*, *H. attenuatus*, *H. dimidiatus*, *H. flavicornis*, *H. pumilus*, *H. pygmaeus*, *H. subcylindricus*, *H. tardus*, *H. signaticornis*, *Lebia scapularis*, *Microlestes fissuralis*, *M. fulvibasis*, *M. maurus*, *M. minutulus* and *Ophonus sabulicola*

New for the Sarnena Sredna Gora: another 41 species

New genera :
Apotomus, *Gynandromorphus*, *Pangus* and *Polystichus* – new for the Thracean Lowland
Acinopus and *Ditomus* – new for the Sredna Gora Mts.

Life forms

Fourteen life form categories were established (9 zoophagous and 5 mixophytophagous) with a predominance of the mixophytophages (53 species; 59%) over the zoophages (37 species; 41%)



Zoophagous:

Life form subclass: 1.1 – Phytobios; 1.2 – Epigeobios; 1.3 – Stratobios; 1.4 – Geobios.
Life form groups: 1.1.3 – leaf-dwelling dendrohortobios; 1.2.2 – large walking epigeobios; 1.2.4 – flying epigeobios; 1.3(1) – series crevice-dwelling stratobios; 1.3(1).1 – surface & litter-dwelling; 1.3(1).2 – litter-dwelling; 1.3(1).3 – litter & crevice-dwelling; 1.3(1).4 – endogeobios; 1.3(2) – series digging stratobios; 1.3(2).1 – litter & soil-dwelling; 1.4.1(1) – narrow-headed running & digging geobios.

Mixophytophagous:

Life form subclass: 2.1 – Stratobios; 2.2 – Stratohortobios; 2.3 – Geohortobios.
Life form groups: 2.1.1 – crevice-dwelling stratobios; 2.2.1 – stratohortobios; 2.3.1 – harpaloid geohortobios; 2.3.1(1) – crevice-dwelling harpaloid geohortobios; 2.3.1 – harpaloid geohortobios; 2.3.2 – zabroid geohortobios; 2.3.3 – dytomeoid geohortobios.

