Exploring the external environmental drivers of honey bee colony development

Supplementary material

Nuno Capela[a], Artur Sarmento[a], Sandra Simões[a], Sara Lopes[a], Sílvia Castro[a], António Alves da Silva[a], Joana Alves[a], Yoko L. Dupont[b], Dirk C. de Graaf[c], José Paulo Sousa[a]

[a]Centre for Functional Ecology, Department of Life Sciences, Associated Laboratory TERRA, University of Coimbra, Portugal

[b]Department of Ecoscience, Aarhus University, Aarhus, Denmark

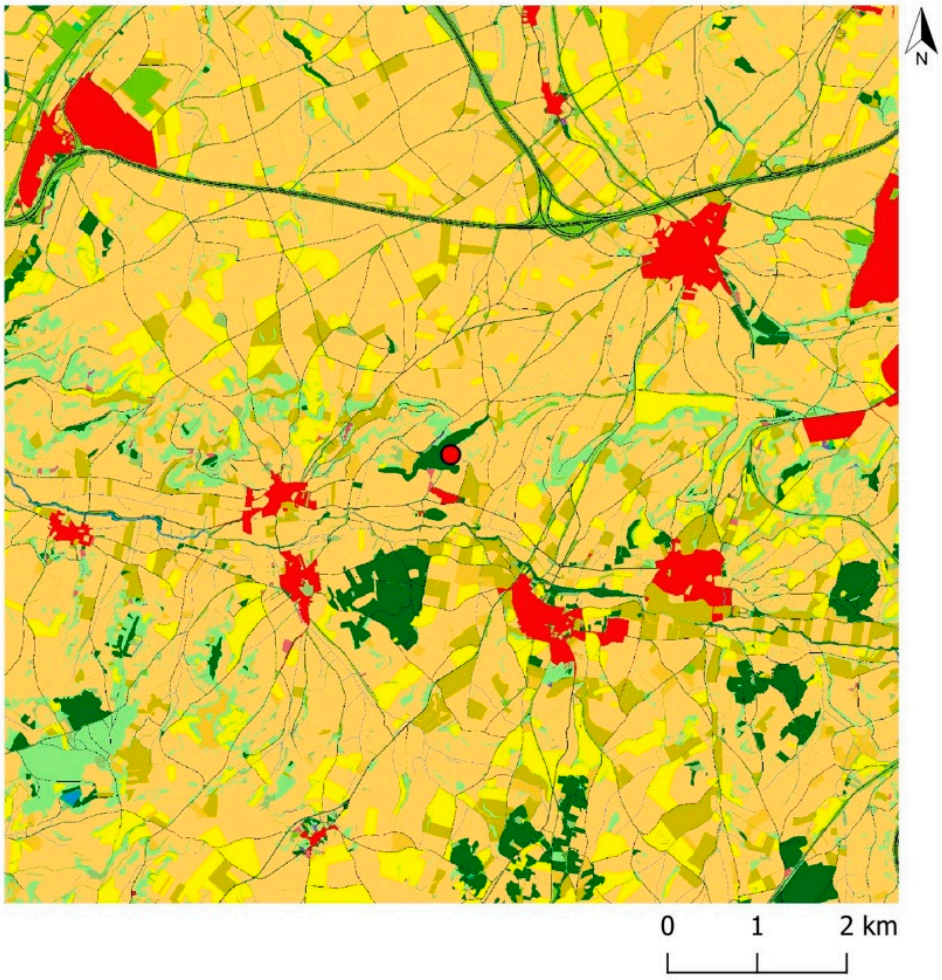
[c]Ghent University, Department of Biochemistry and Microbiology, Krijgslaan 281 S2, B-9000 Ghent, Belgium

This supplementary material includes the visual representation of the three landscapes used in this study.

Burgos

Description:

- Landscape dominated by arable land for cereals (66%) and sunflower (9%) production.
- Low percentage of forested area (4%).

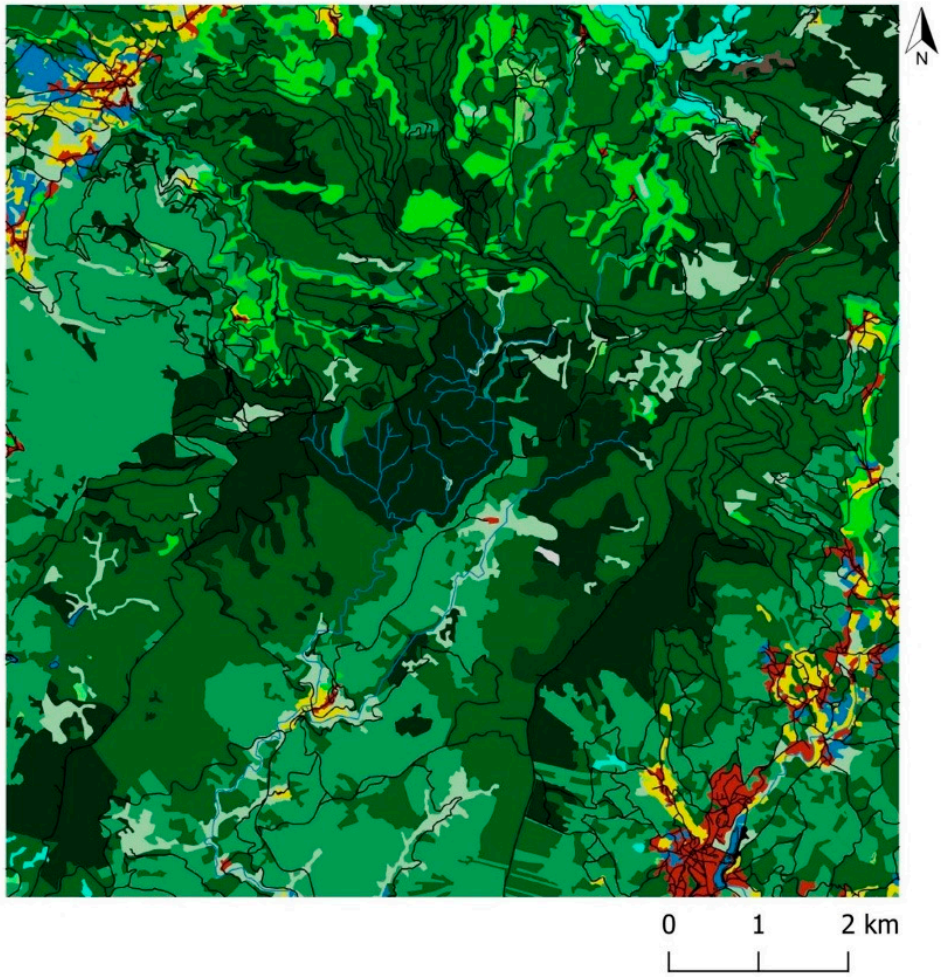


- Road networks
- Water surfaces
- Urban areas
- Bare soil
- Forest
- Pastures
- Cereals
- Sunflower
- Pastures with shrubs
- Pastures with trees
- Fruit trees
- Nut trees
- Olive grooves
- Vineyard
- Legumes
- Beehive

Lousã

Description:

- Landscape dominated by natural areas, mainly forest (43% Maritime Pine and 21% Eucalyptus) and shrubland (17%).
- Very low percentage (less than 2%) of temporary crop fields.



Idanha

Description:

- Landscape dominated by agricultural areas (47% temporary crops, 21% permanent pasture, and 8% montado), mainly Cattle farms.
- Presence of *Eucalyptus* forest (10%).