

Habitat selection of *Lullula arborea* (Woodlark) in the Swiss Jura wood pastures

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Wood pastures



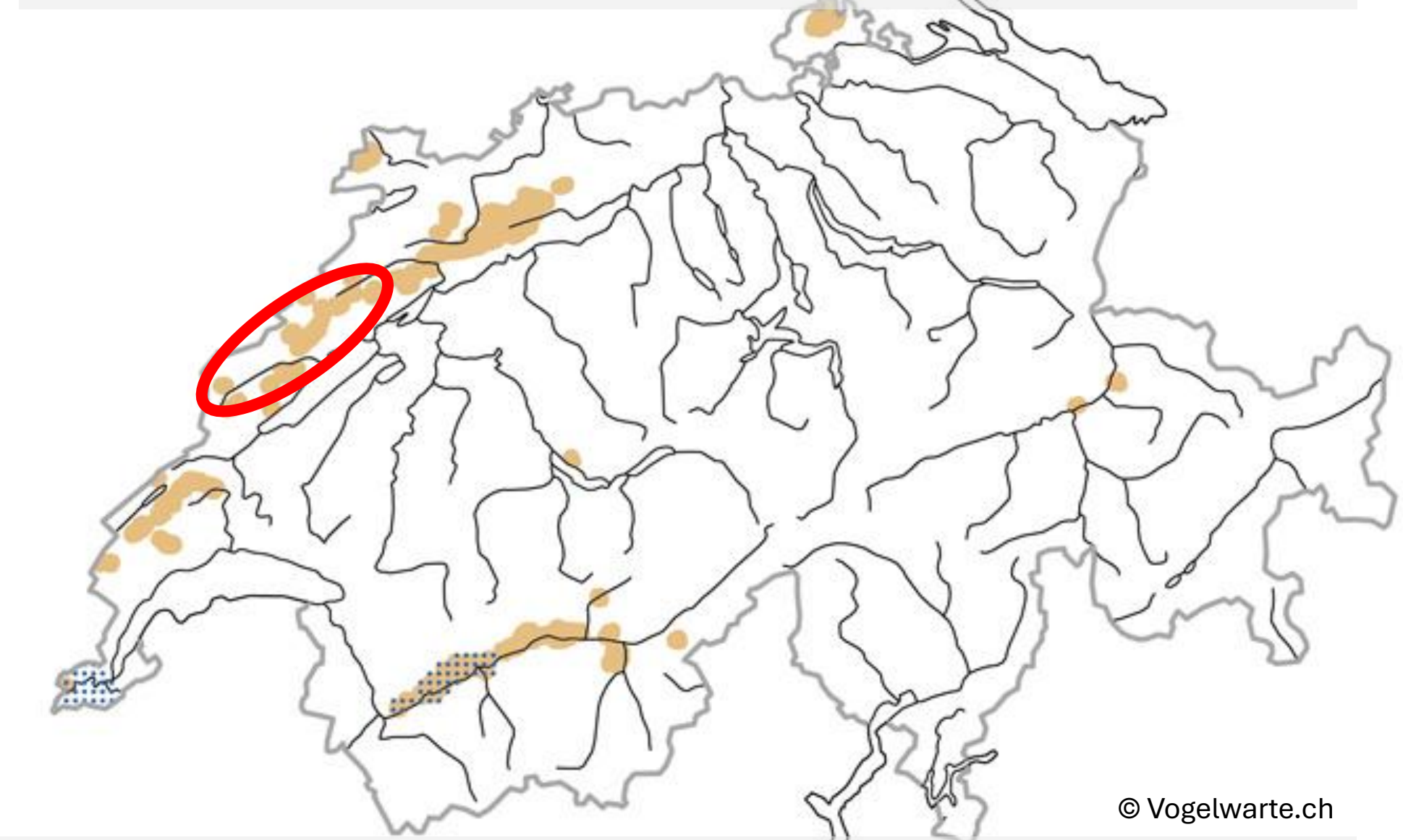
A mosaic of cattle grazed pastures and scattered trees
A Semi – open habitat with high value for biodiversity

Woodlark



Insectivorous bird
Nest on the ground

Red listed Specie
Major threat : Habitat loss

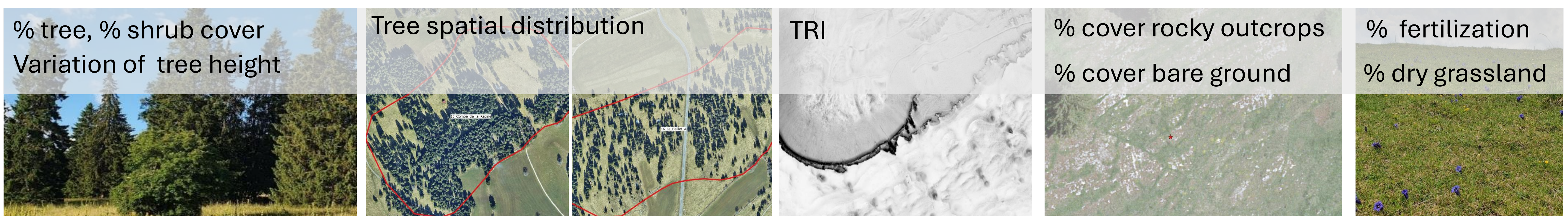


Distribution of the specie, with study region (red circle)

Which environmental parameters explain habitat selection of the Woodlark ?
What are the management options to preserve this habitat ?

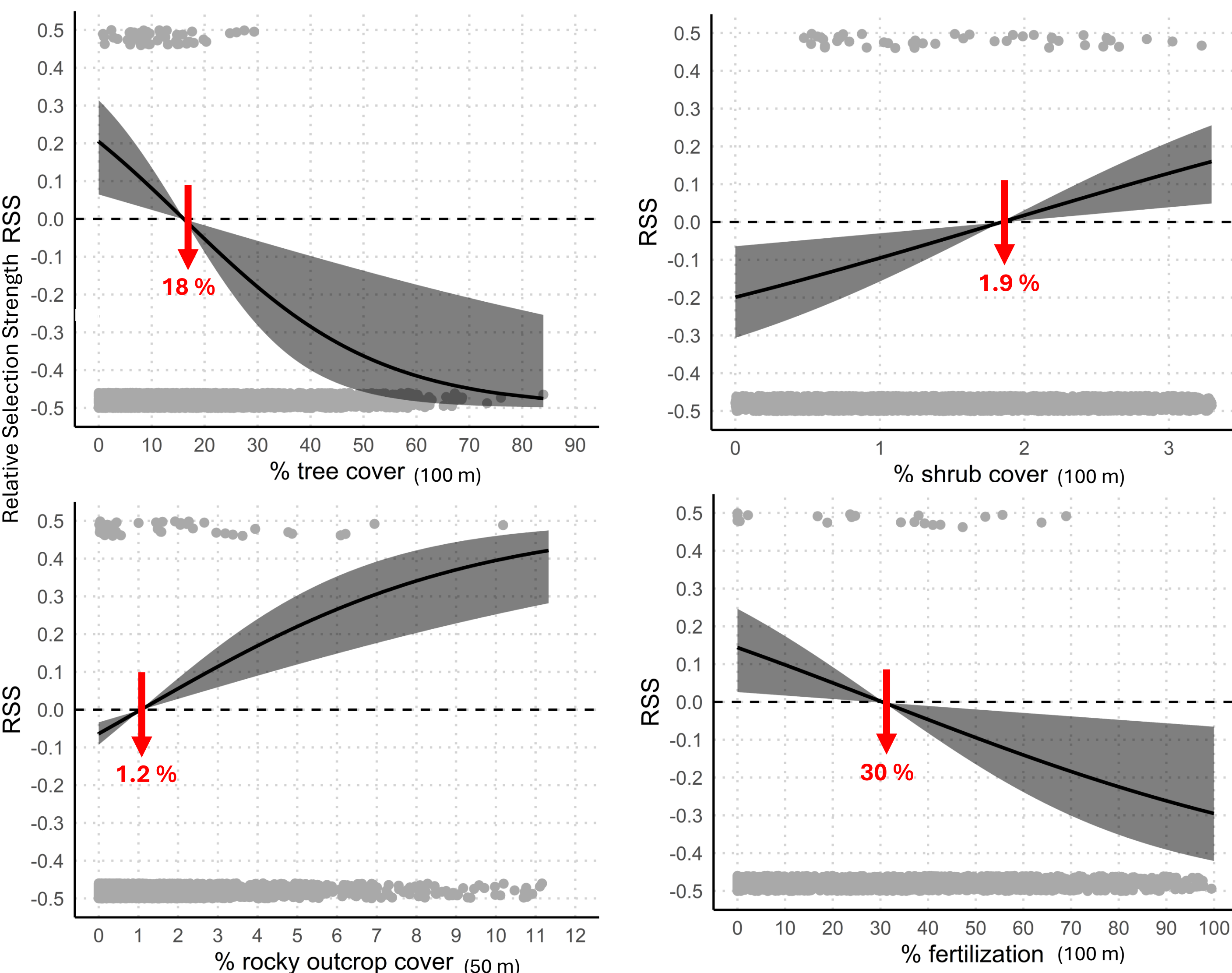
Model

Habitat selection function at multiple spatial scales (from 50 to 500 m radius around observations)



Binary response: 96 **presence** collected along transects in 22 sectors (total study area 3'690.3 ha.) & generated **pseudoabsences**.

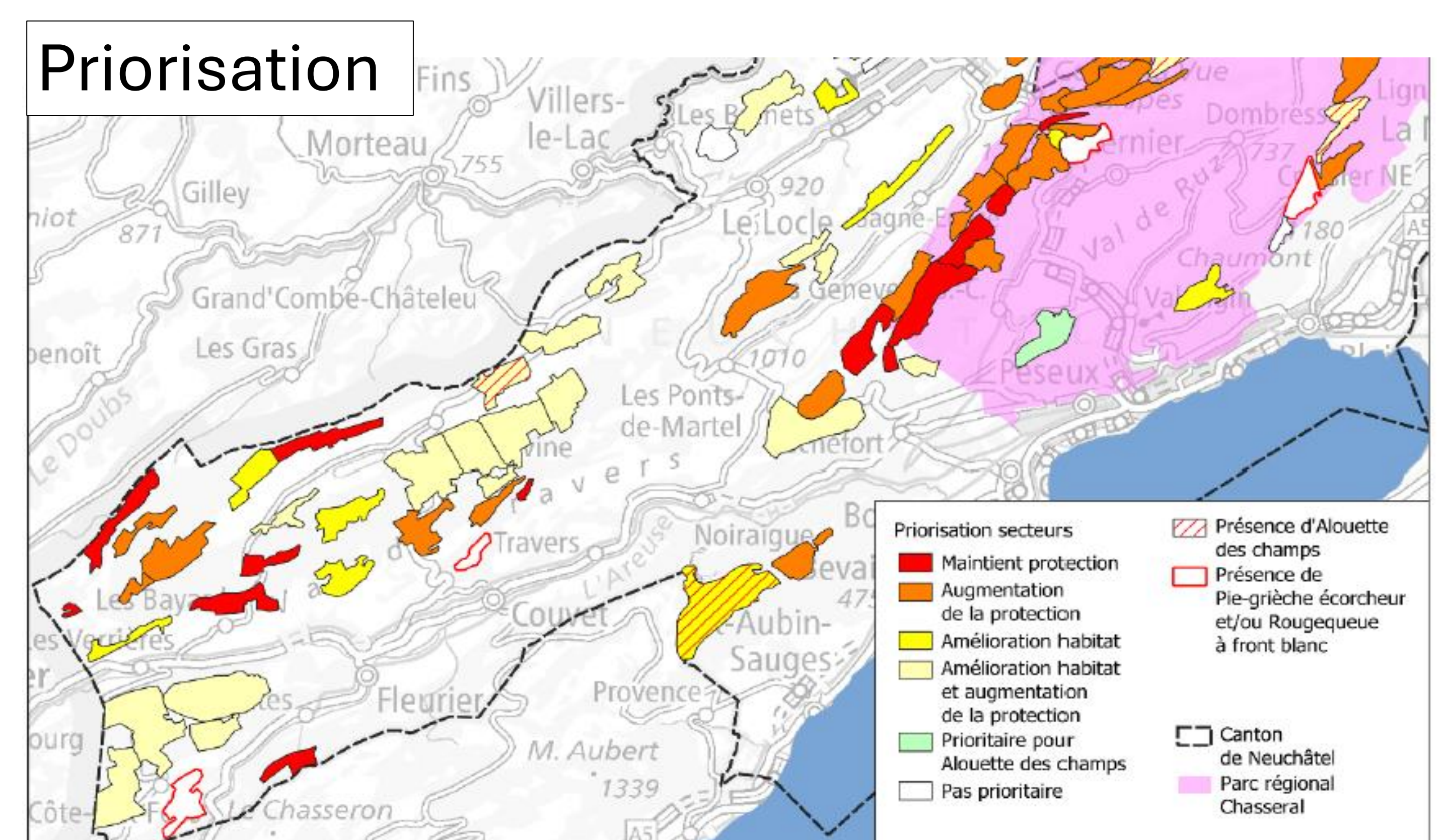
Results



Recommendations

- Tree cover < 18% (opt. 11%)
- Preserve shrubs and rocky outcrops
- Fertilization < 30% of parcels
- Conservation measures on smooth terrain

Application



- > Management plans, Farmers advices
- > Young trees plantation, keep optimal cover
- > Fertilisation reduction

Combe des Fies - Le Plandion

Fertilisation

Données avifaune NE

Alouette des champs

Alouette lulu

Pipit des arbres

Zones LPN

Condition LPN : Pas de fumure

Rétributions LPN : 150/ha/an

Surface estimée : 20ha

Total des rétributions LPN = 3000CHF/an

