Catalan Common Bird Survey: sampling design implications

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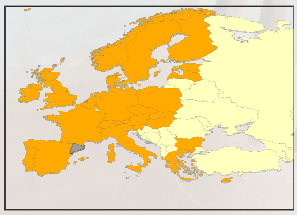
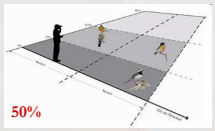
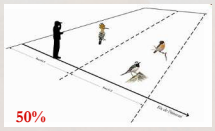


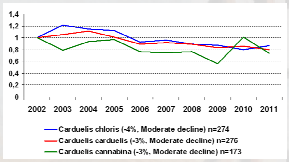
Field method

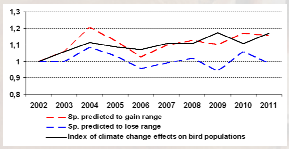
line-transects (3 km)



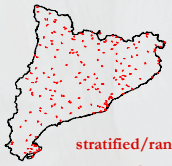


Main products



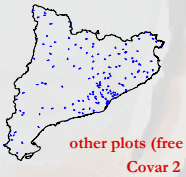


Sampling design implications



stratified/random plots

Covar 1



other plots (free choice)

Covar 2

TRIM Wald test for significance of covariables

n.s. (83% sp) → weights 1 → All data

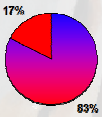
P<0.05 (17% sp) → weights 2 → Strat/rand data

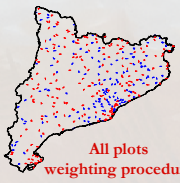
To which degree this statistical difference is biologically relevant?

Would trend classification change for these 17 % of species if *All data* was used instead?

Moderate increase 25%
Moderate decline 20%
Stable 25%
Uncertain 30%

20 sp



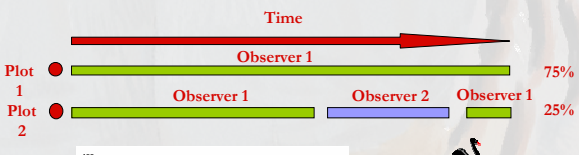


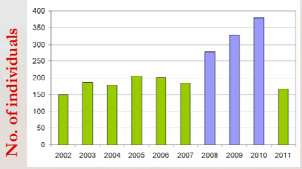
All plots weighting procedure

Only for 3 sp, and slightly

In addition, Wald test problematic for 2% sp whose p-value fluctuated around 0.05...

Observer change implications





Plot remains the same despite observer change

Manual removal of Obs. 2 data in case of large dif in richness or abundance

…subjectivity, data loss

How do you address observer change in TRIM analyses?

Thanks !