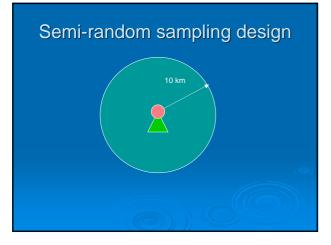
What improvements to CBM would be most effective to increase data value in a 10-20 years perspective?

Effective = Aims / Volunteer Effort

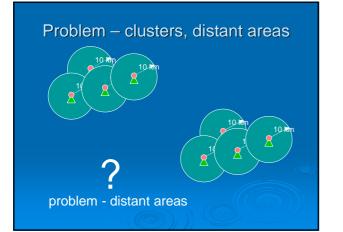
Aims

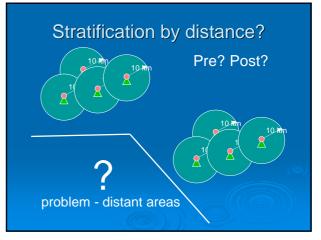
Let's predict the trend in ecology!

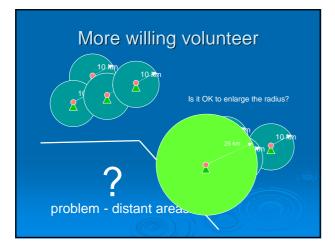
- > Unbiased trends & indices
 Increase accuracy
 - also precision if possible
- > Ecological questions
- > Atlas modelling densities, national popupaltion estimates

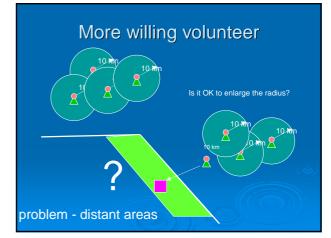


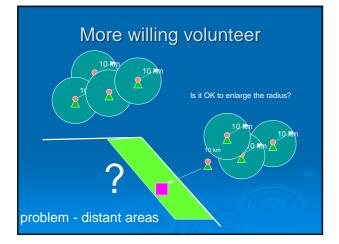












Within the square - free choice?



- we must be representative – not overestimate density!!!
- problem with linear features etc.

What to count?

- > record individuals, pairs, or territories?
- > record juveniles? (UK: ignore)
- > distinguish territorial/nonterritorial behaviour?
- > approach in modelling?



Flyover birds / Aerial feeders

- aerial feeders defined as species or behaviour? (UK: aerial-feeding swifts, swallows and martins not landing or flying into a nest site)
- record in a special category no distance sampling (UK)
- > aerial feeders -> flyovers? (UK)
- approach in modelling ignore? (UK, DE)



Other improvements

- > Heard/seen?
 - Expensive. How important? Workarounds?
- Record habitat for each individual?
 - Expensive
- Record flock sizesUse in modelling?



Feedback is welcome!

Thank you for your help

Flocks

- recording flock sizes: increase in precision, more accurate SE, (A. Lindén 2011)
- > ecology questions
- > other benefits for modelling?

Goals (reminder) • Unbiased trends • Ecological questions • Modelling: Density maps & Abundance estimates