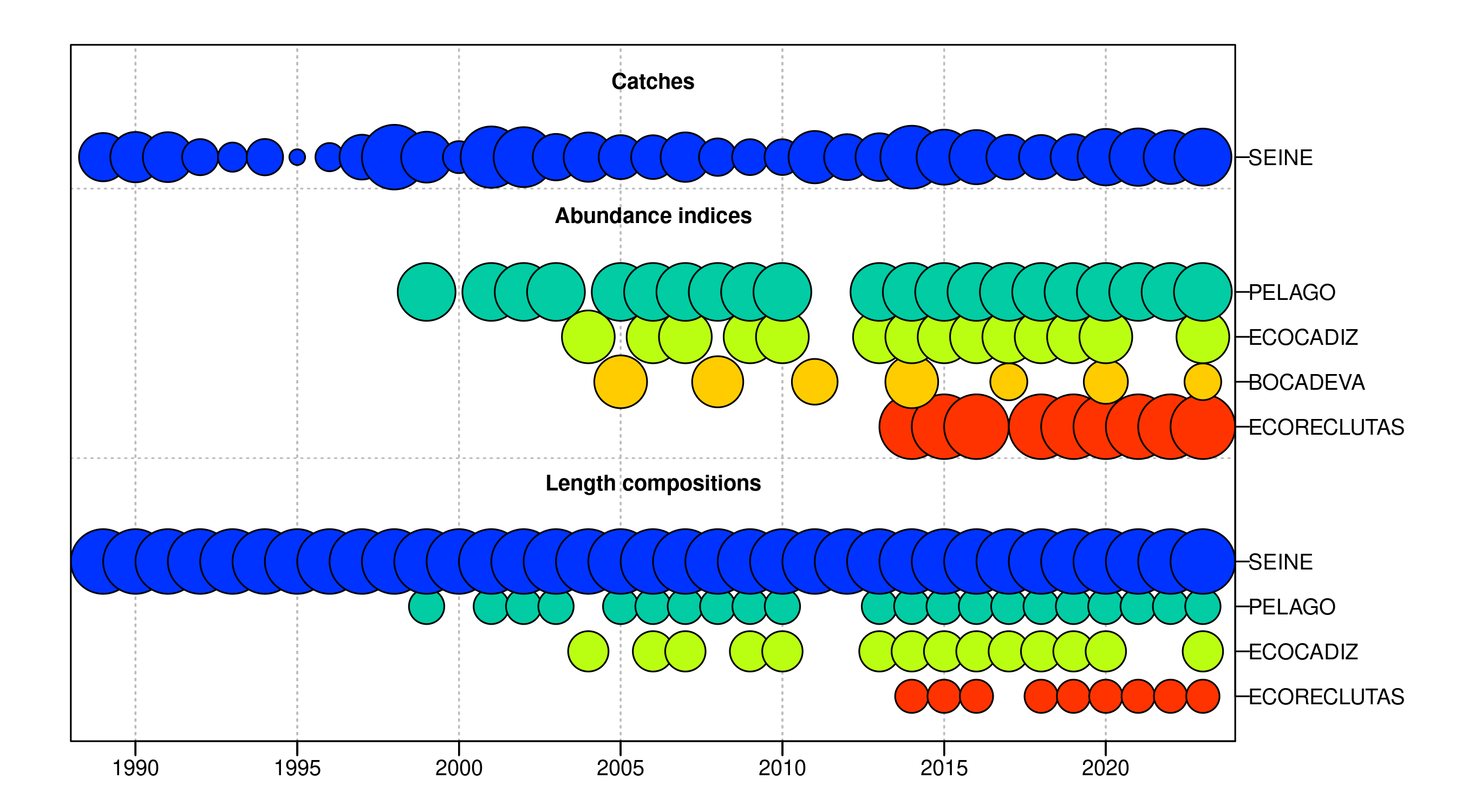
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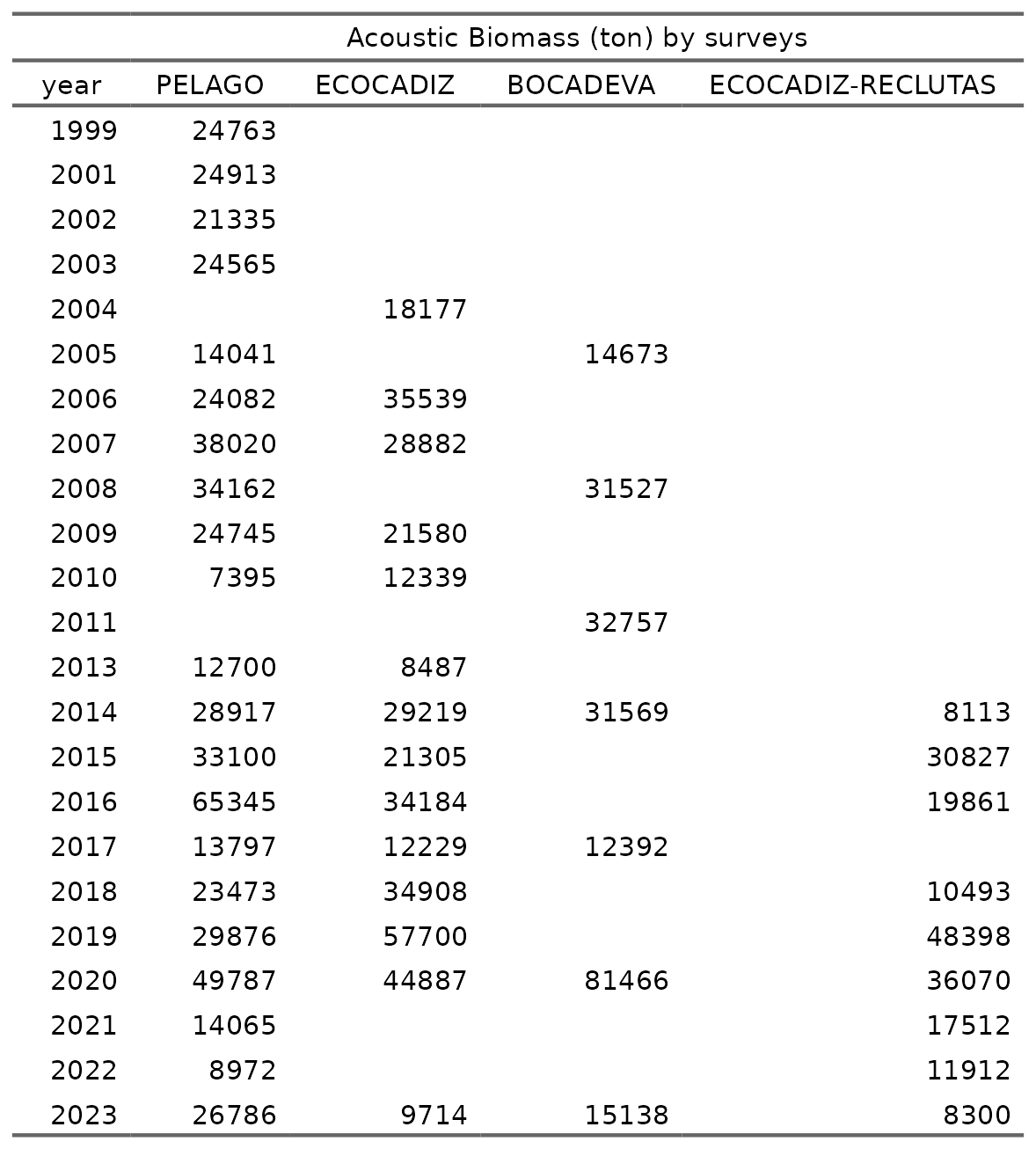
# Anchovy Stock in ICES Subdivision 9a South (Ane.27.9a): Assessment Using Length Composition data:

## Assessment model

### Data







### survey date, coeficient variation (CV) and samples size (nm)



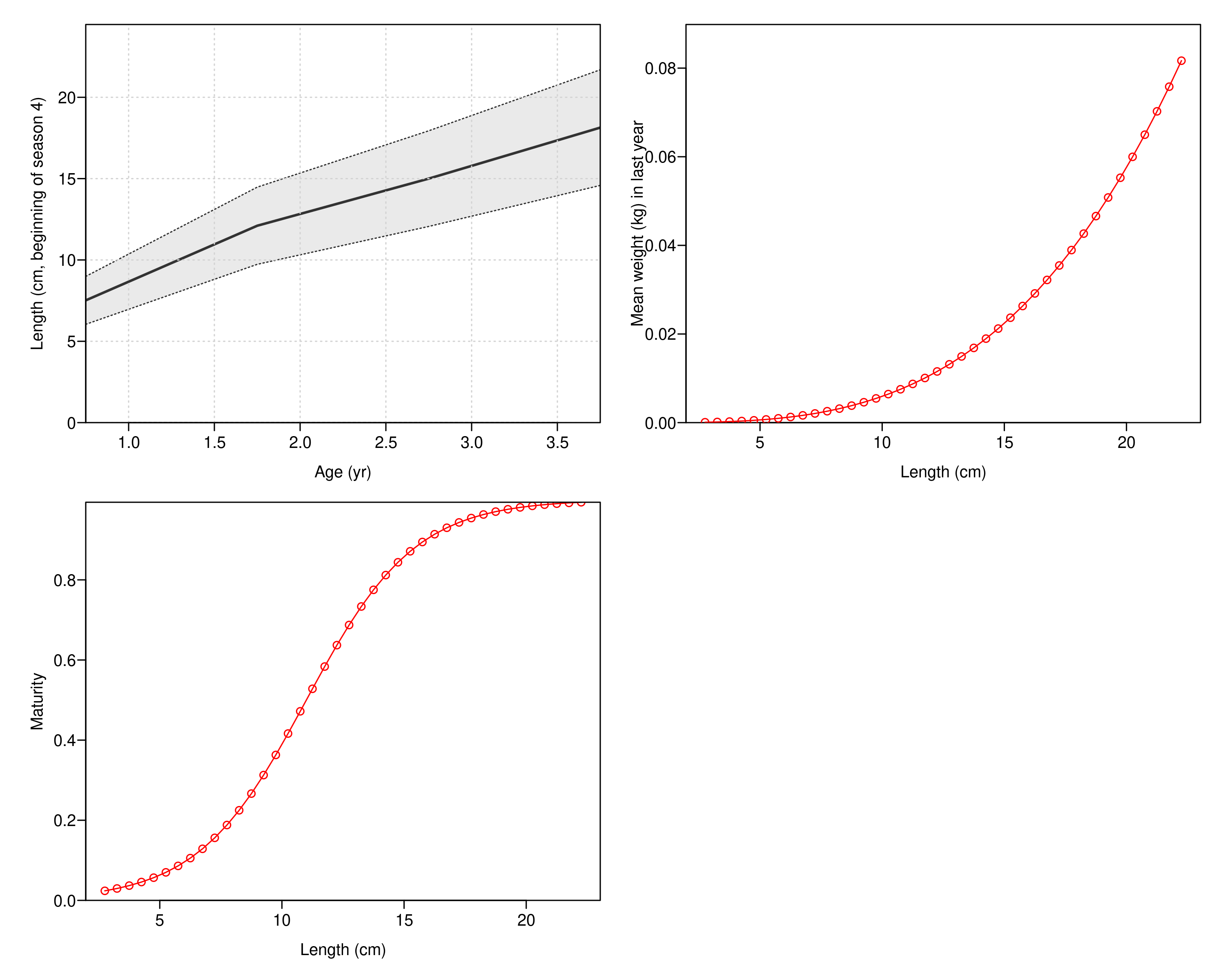
### Model setting

* *Natural mortality*:



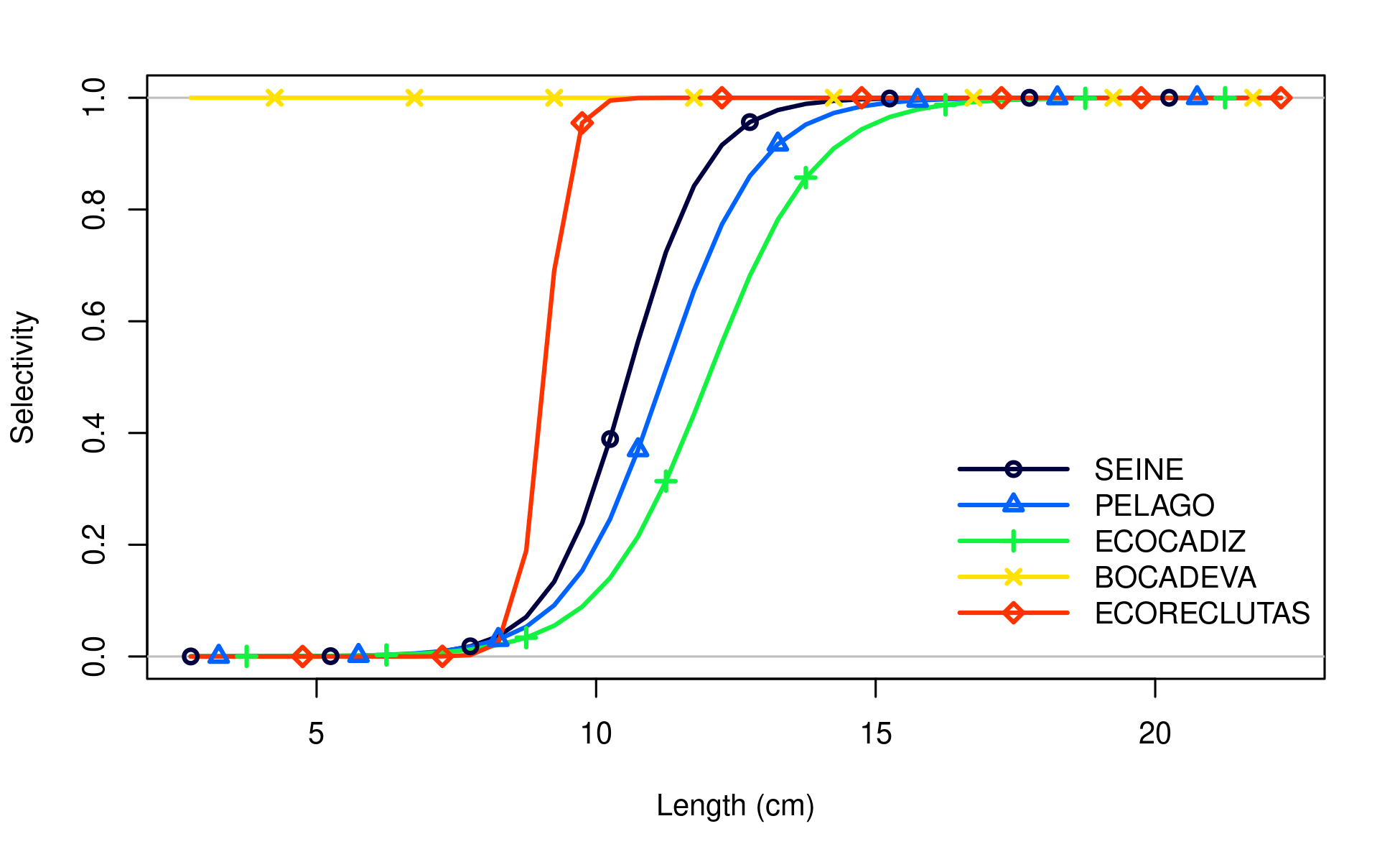
* *Growth parameters*, *Length-weight relationship* and *Maturity*:

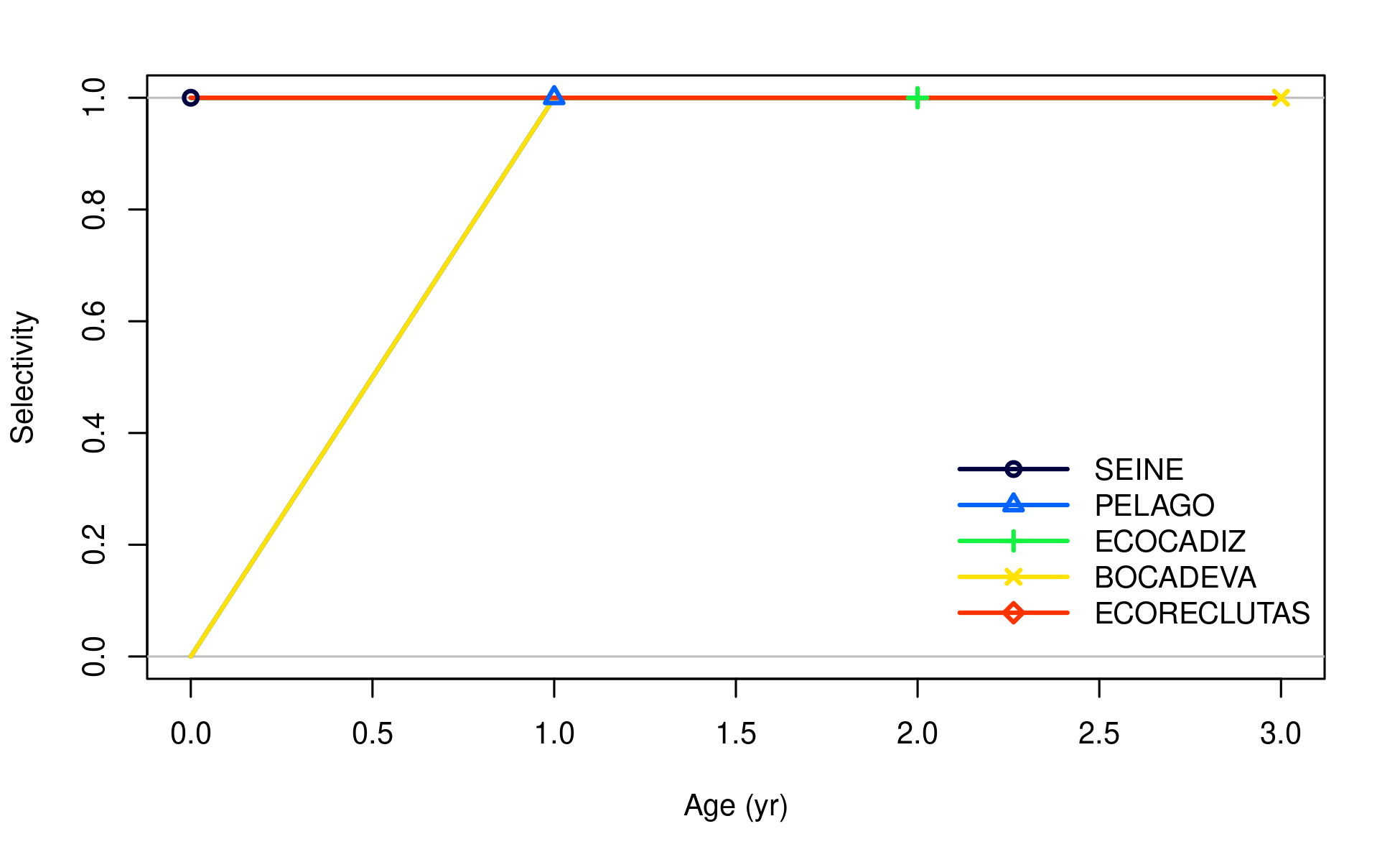




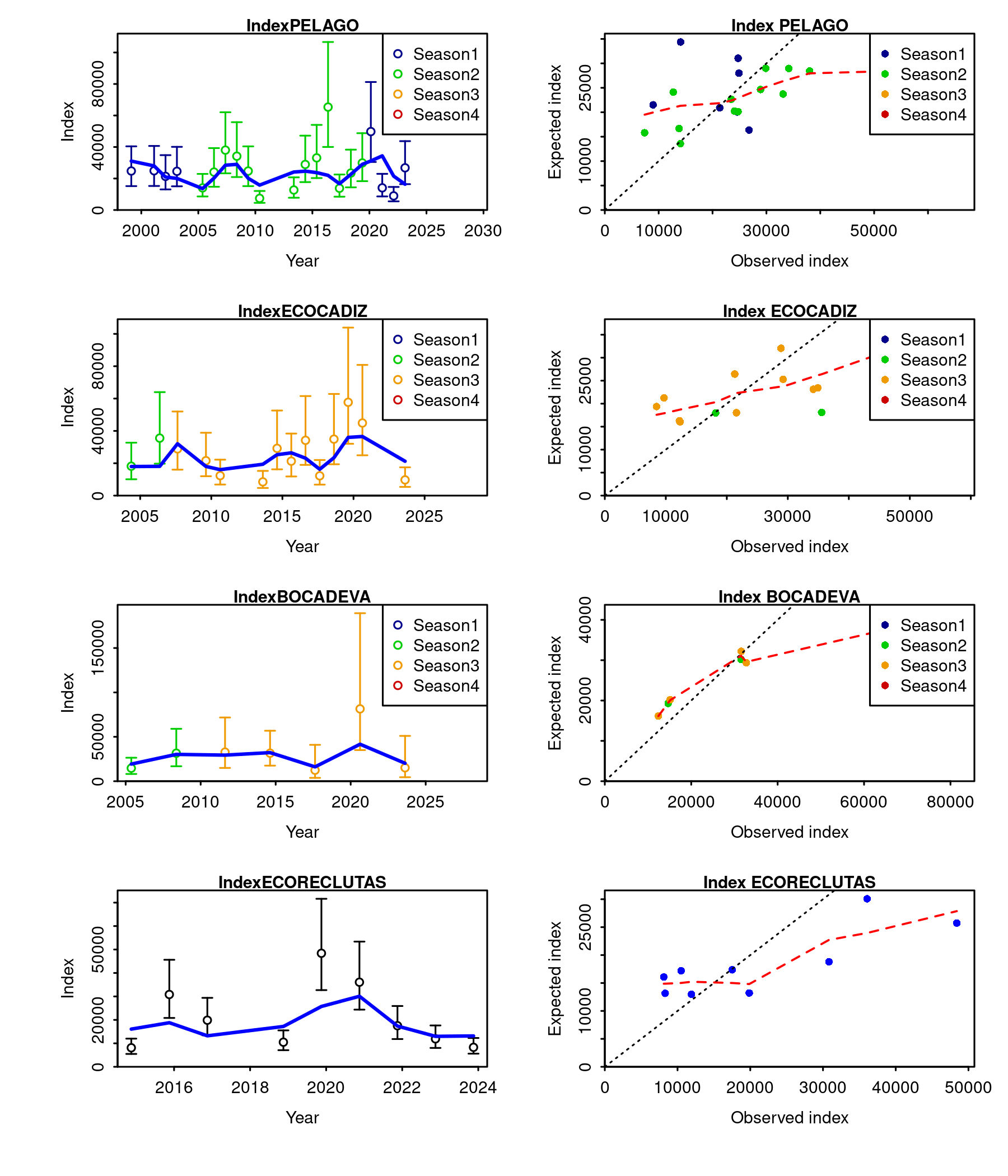
* *Recruitment*, *catchability* and *length and age selectivity*:

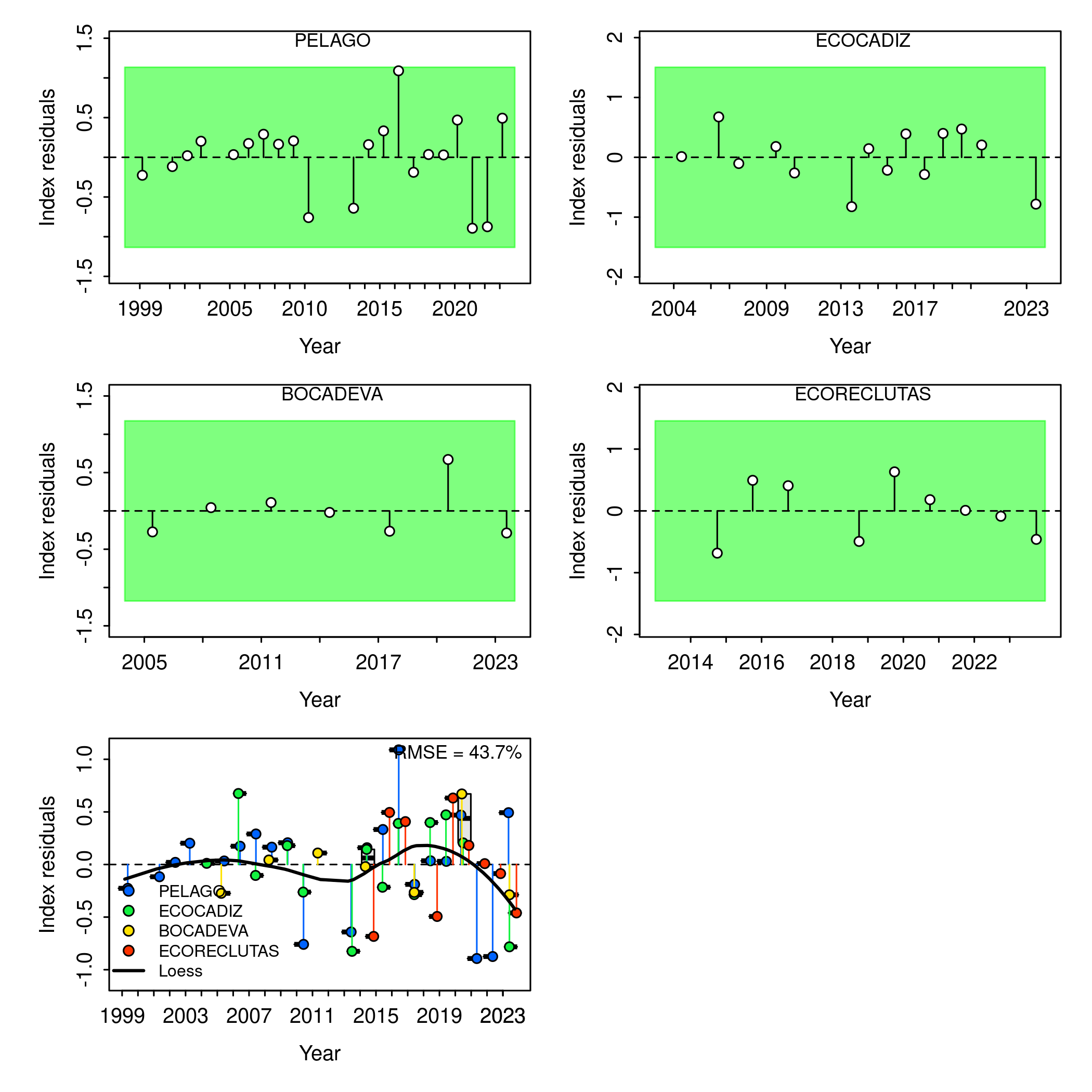


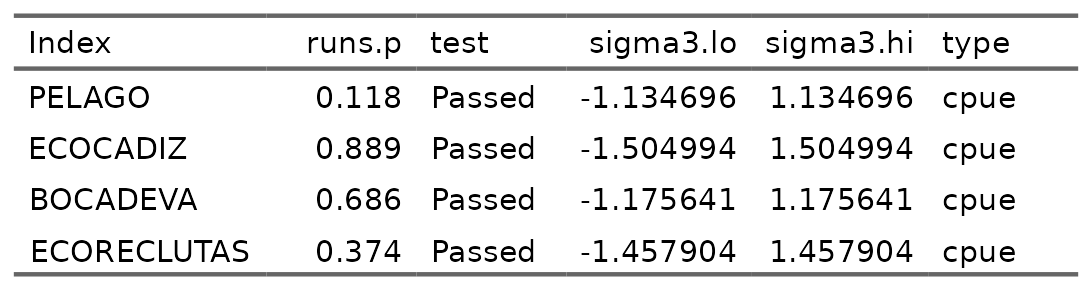


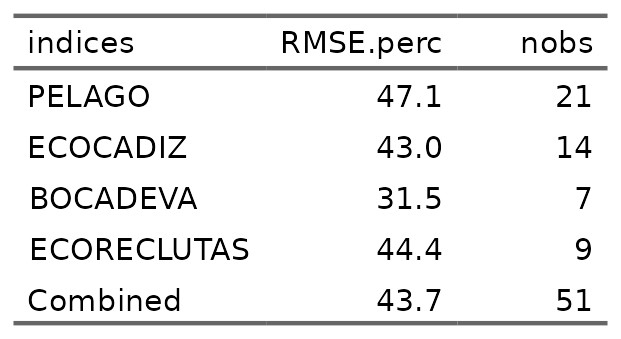


### Fit and residuals indices

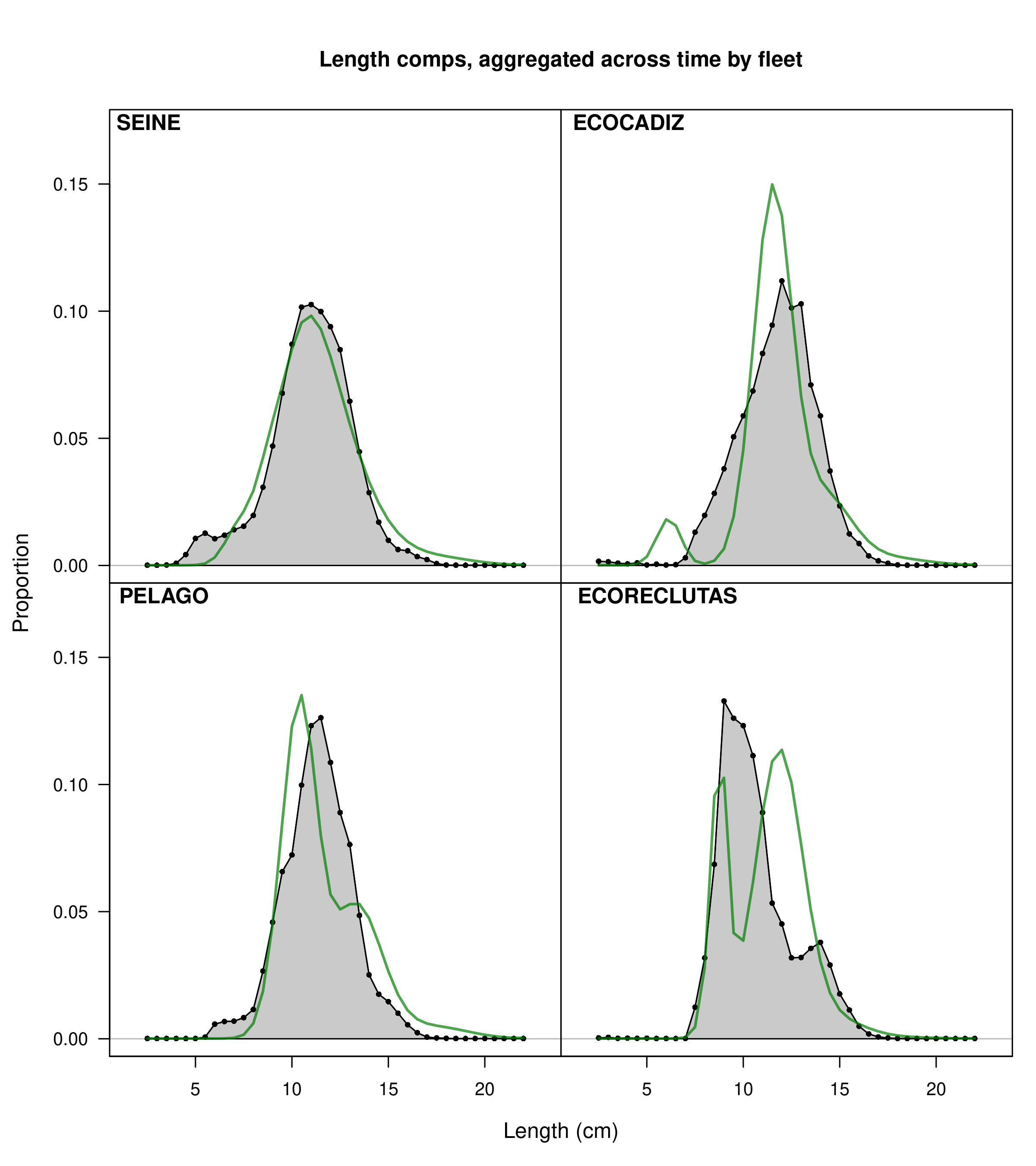




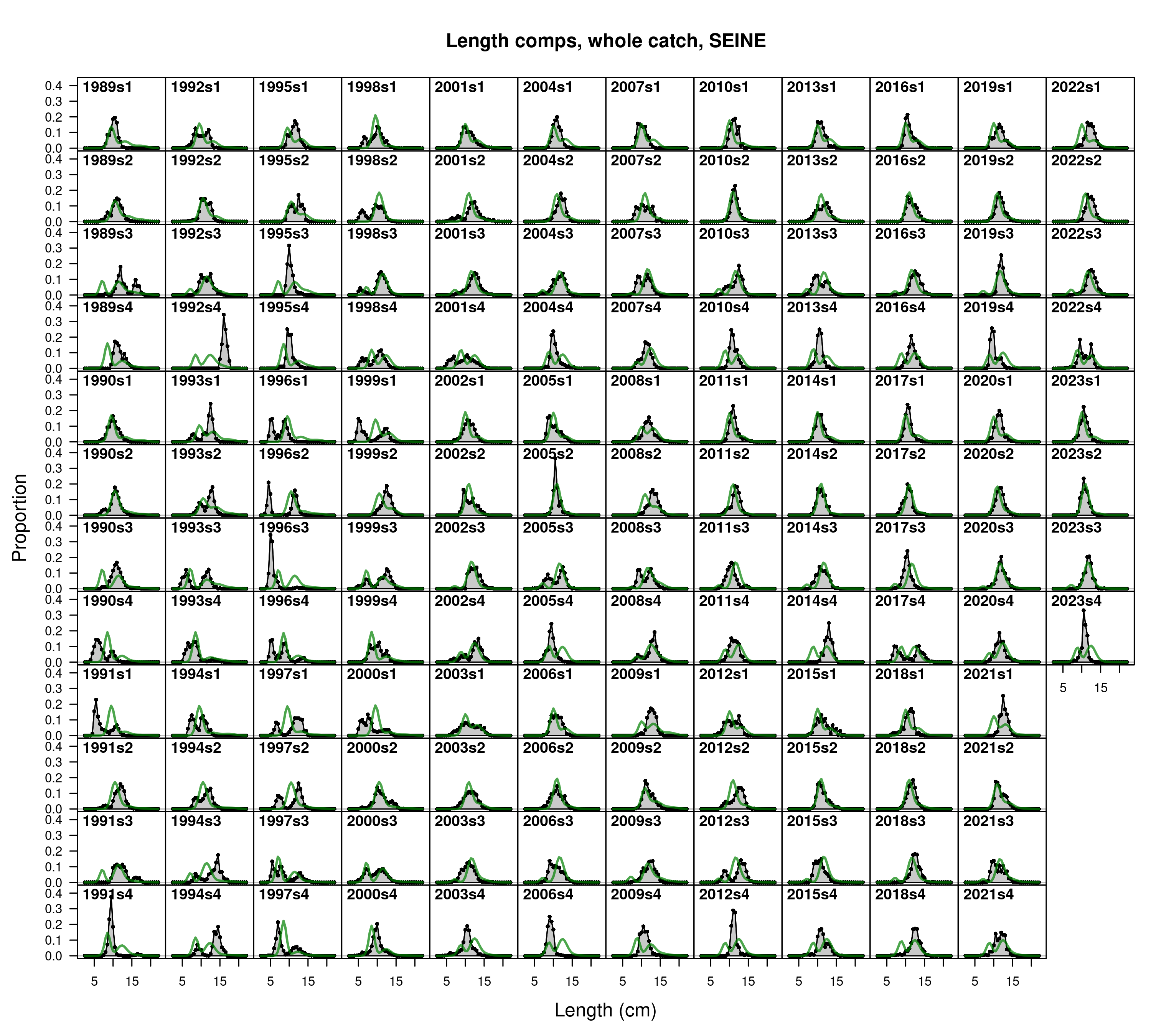


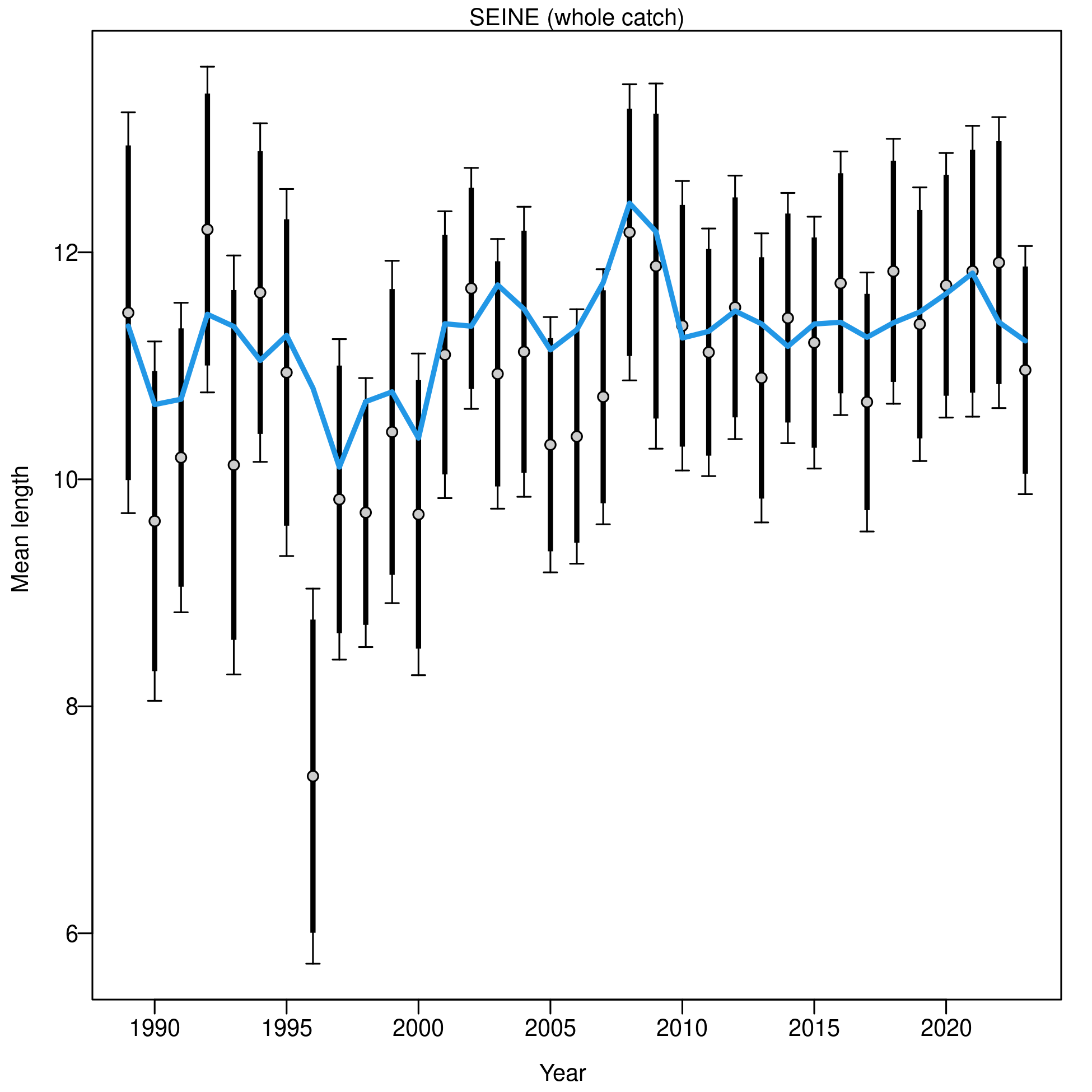


### Fit and residuals length composition

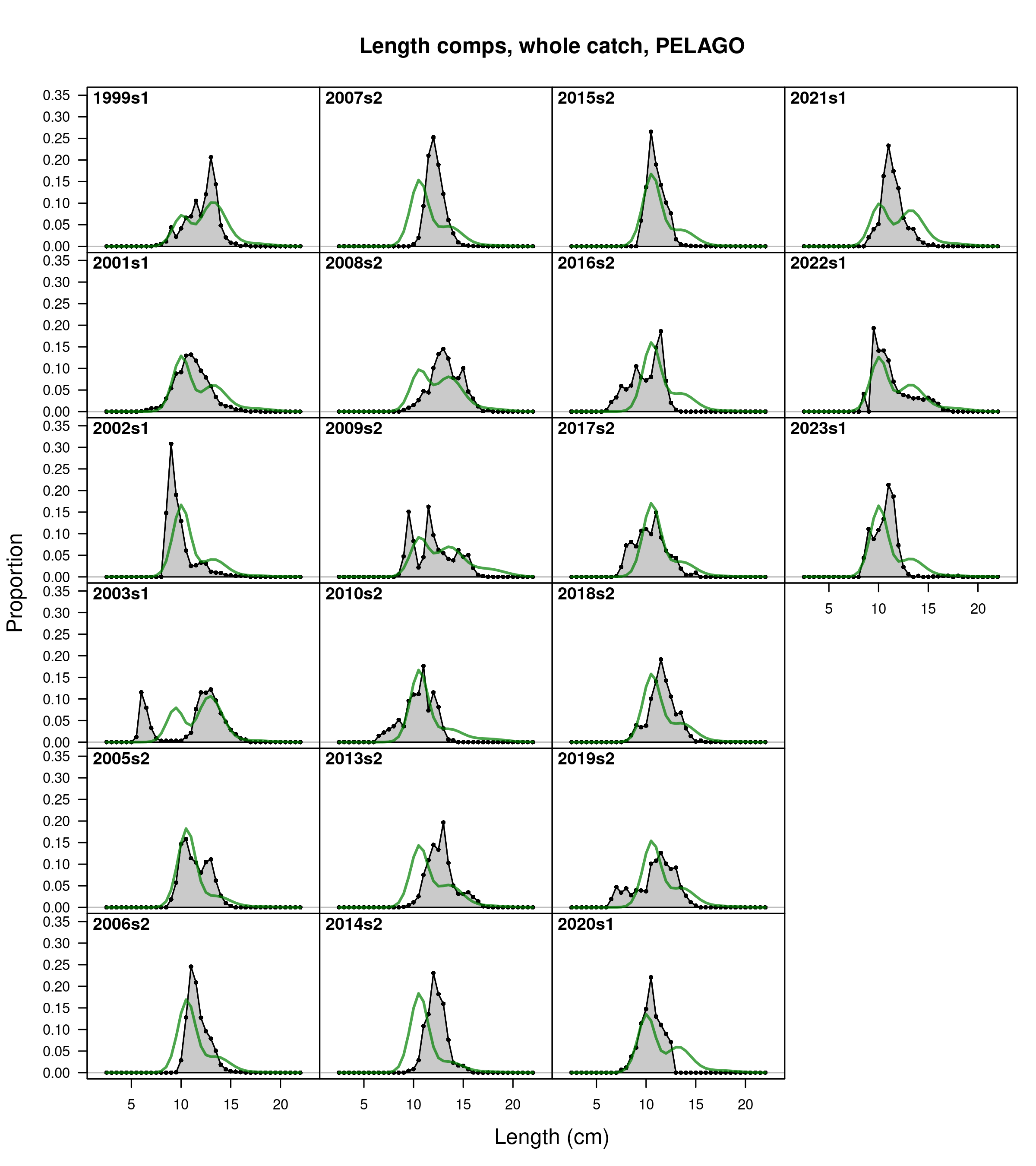


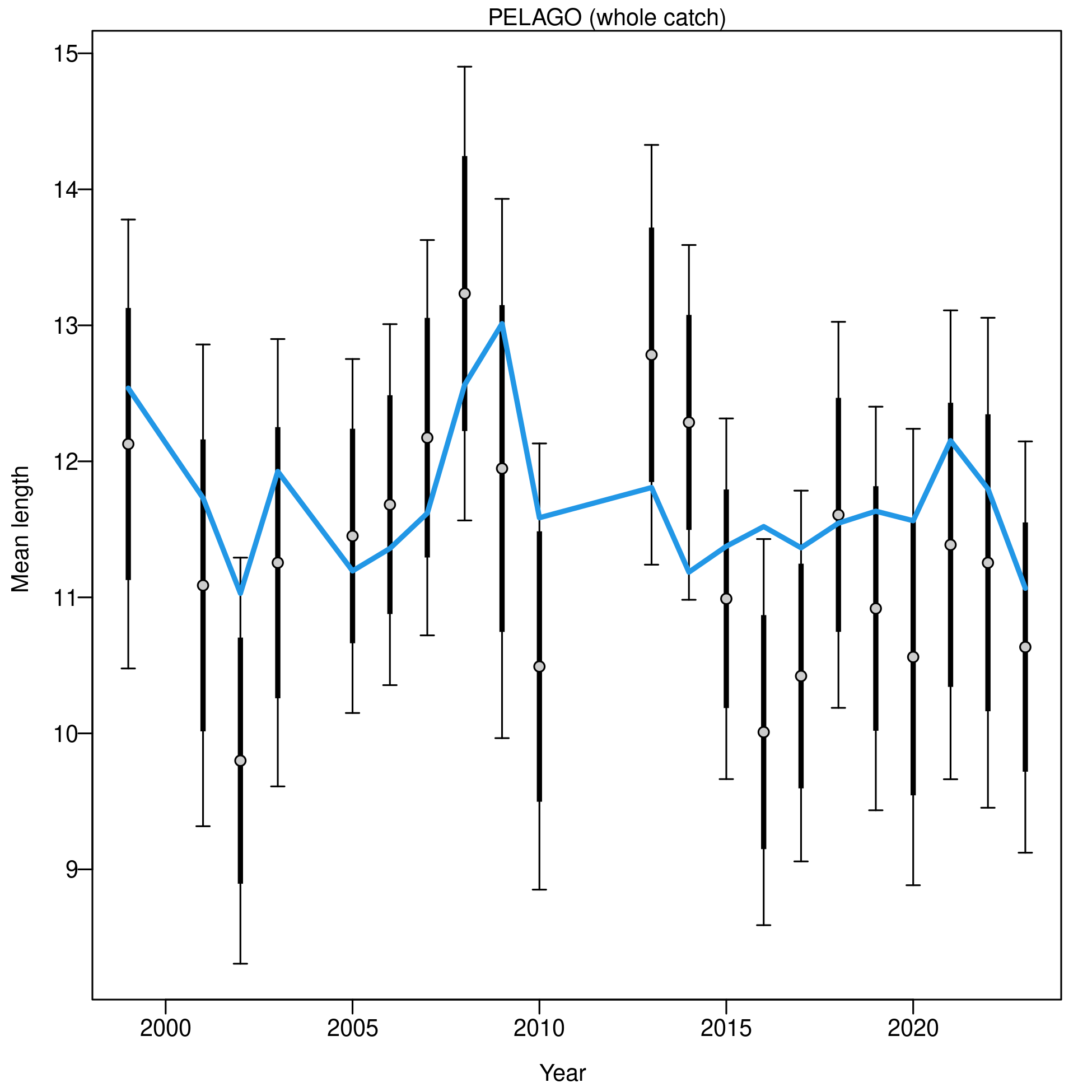
#### *SEINE* Fleet by quarters





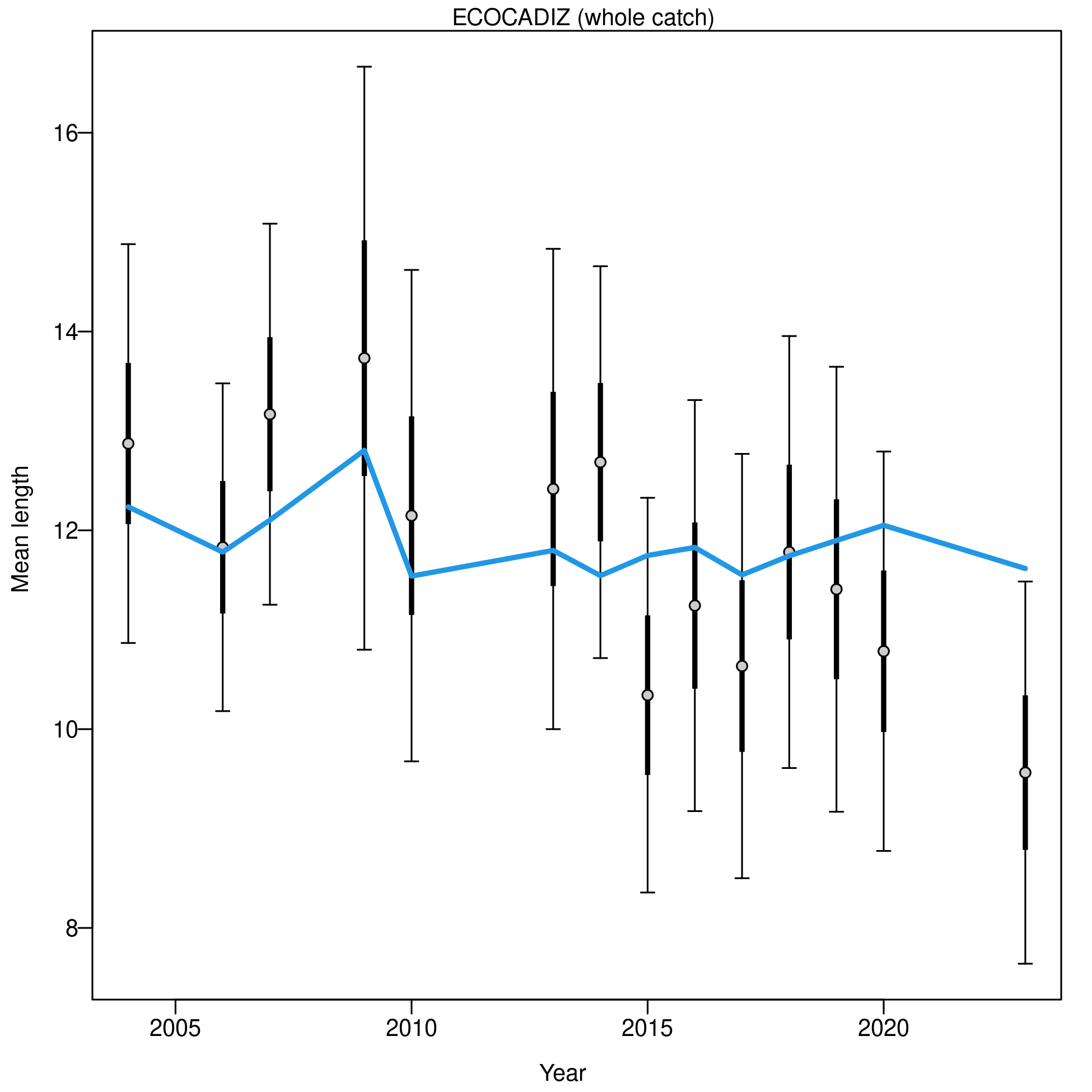
#### *PELAGO* spring survey



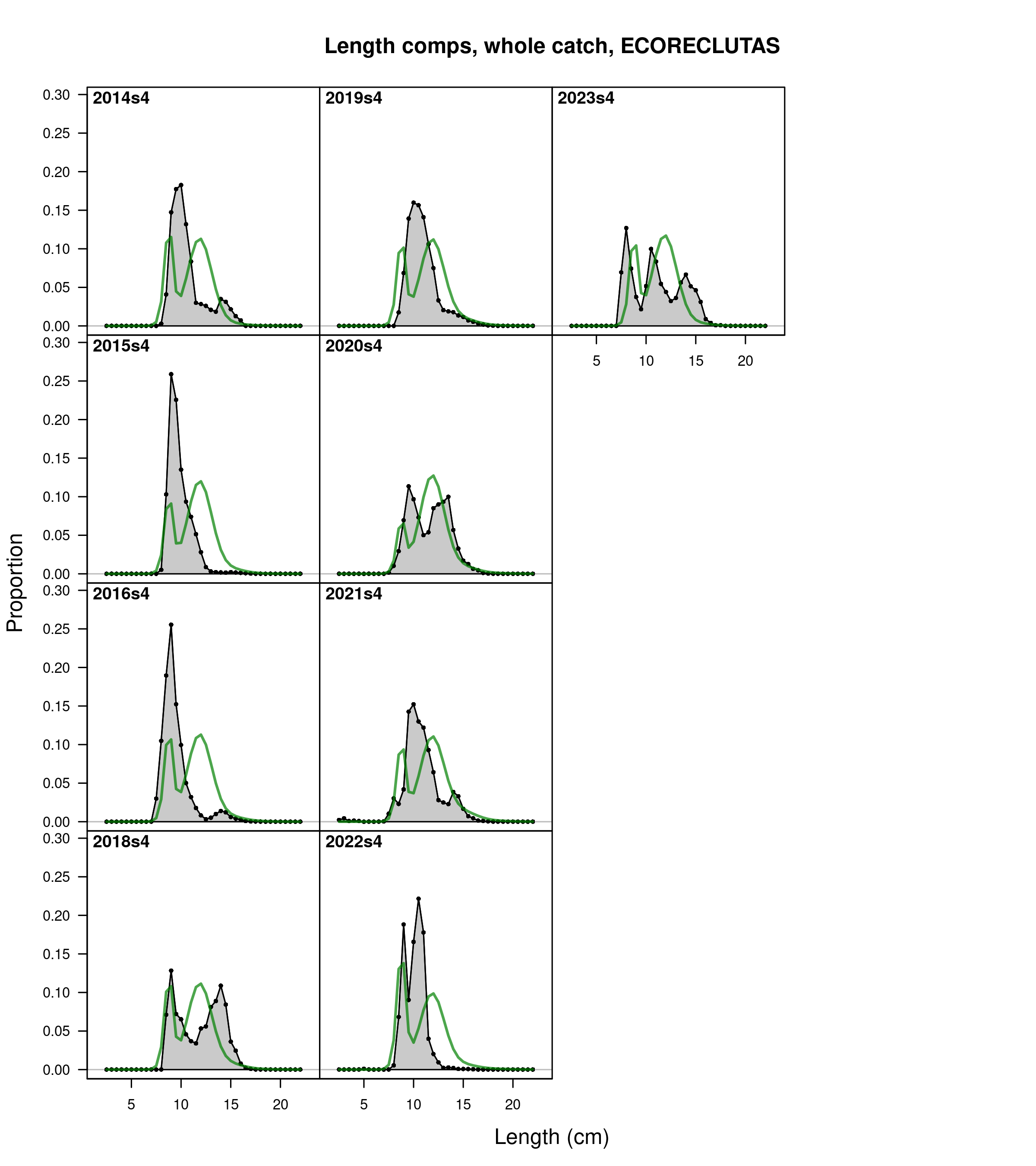


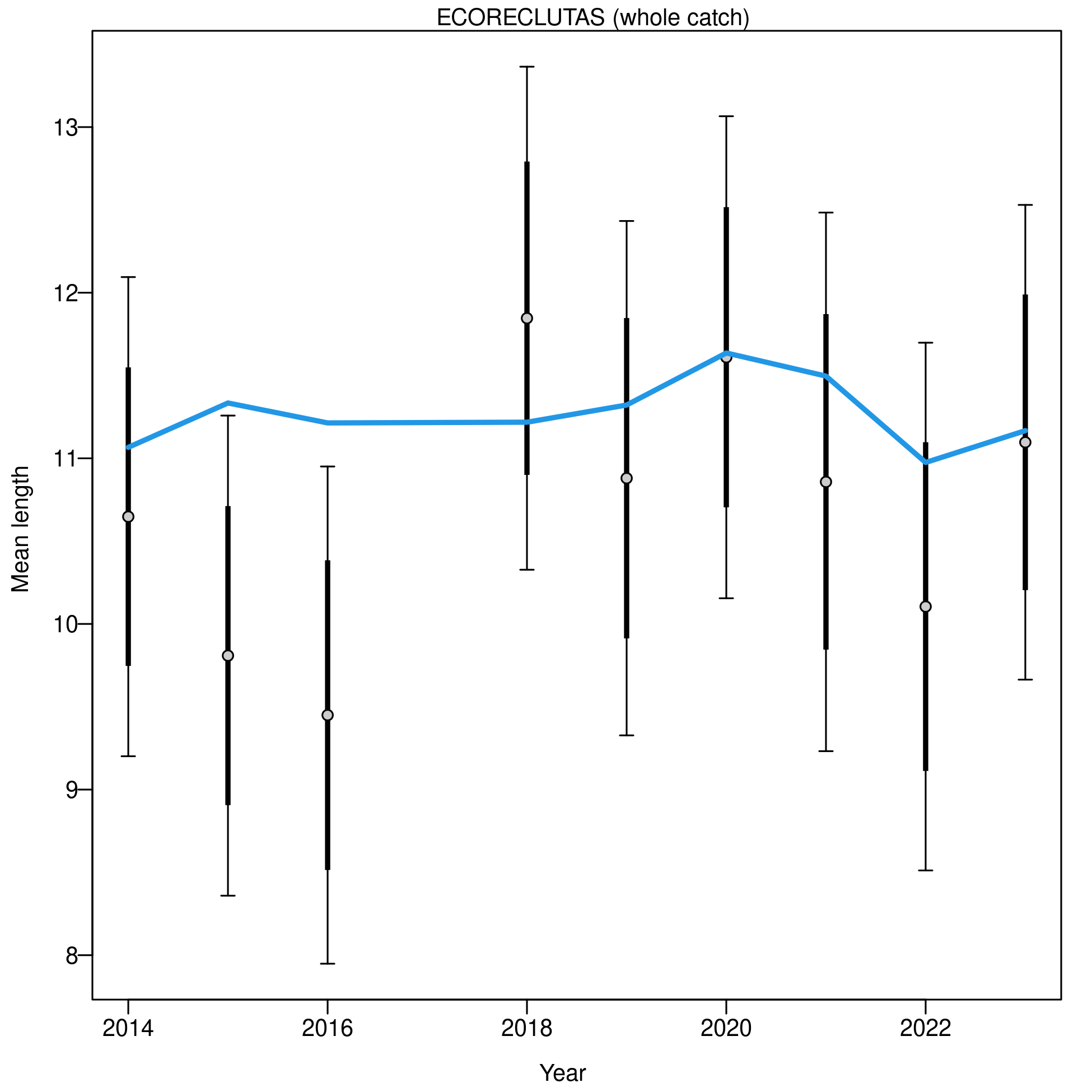
#### *ECOCADIZ* summer survey



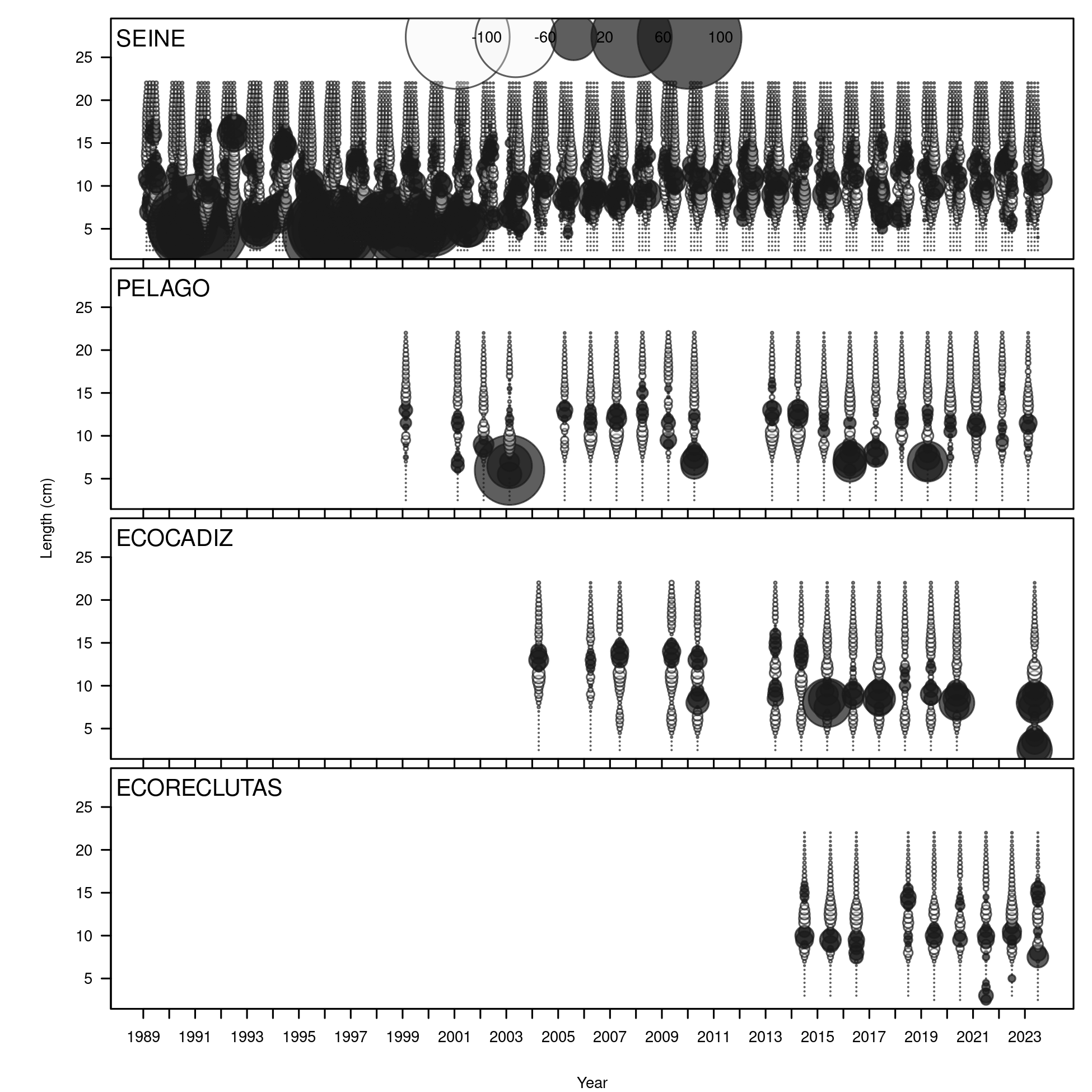


#### *ECOCADIZ-RECLUTAS* fall survey

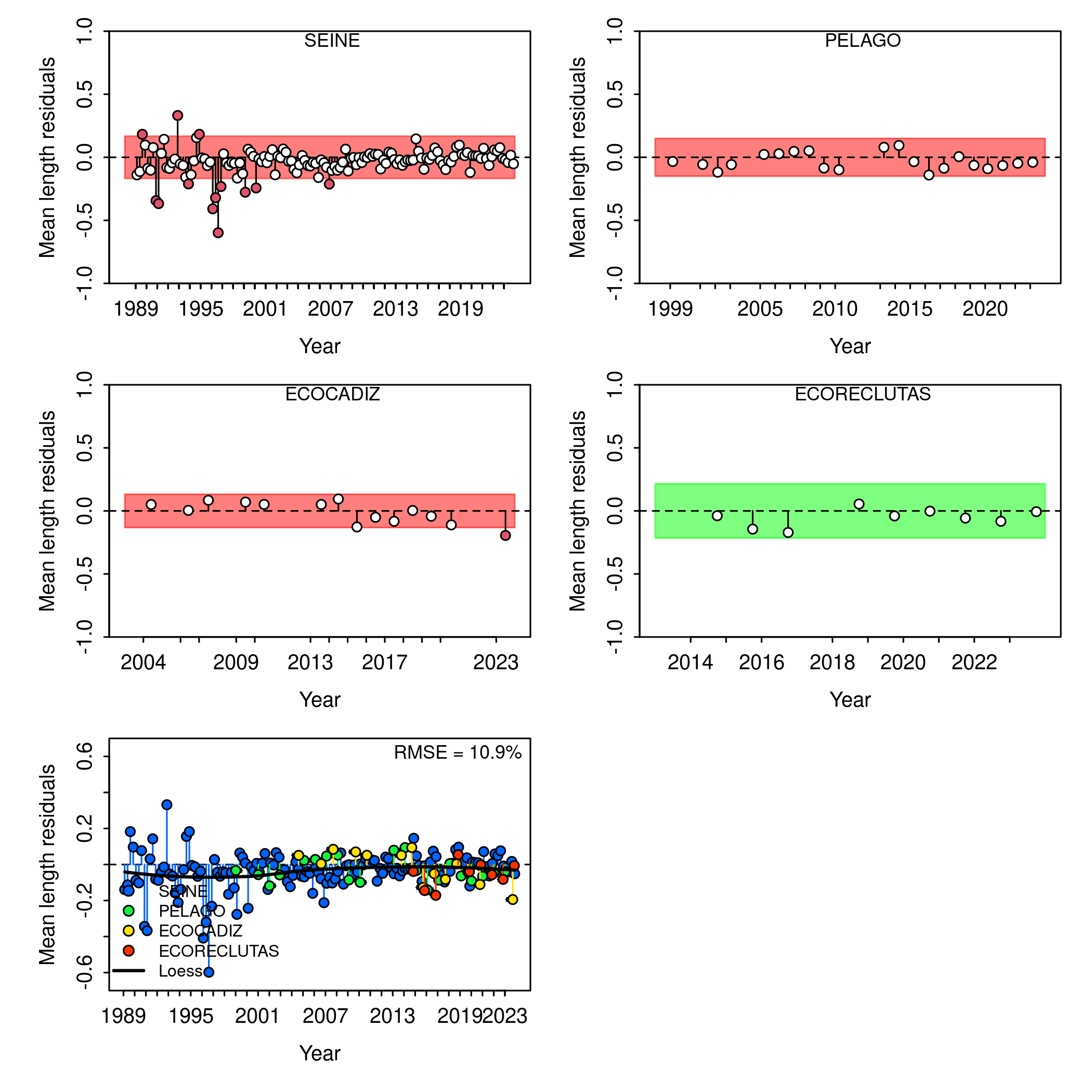




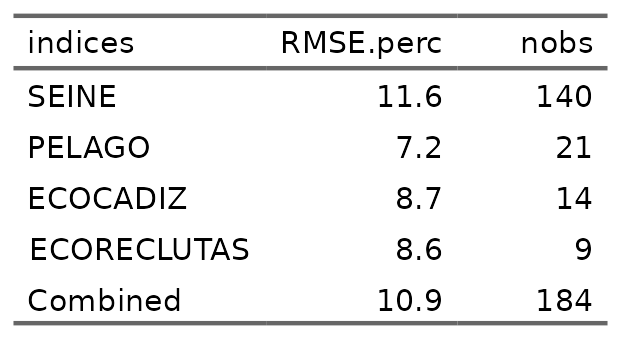
### Length residuals



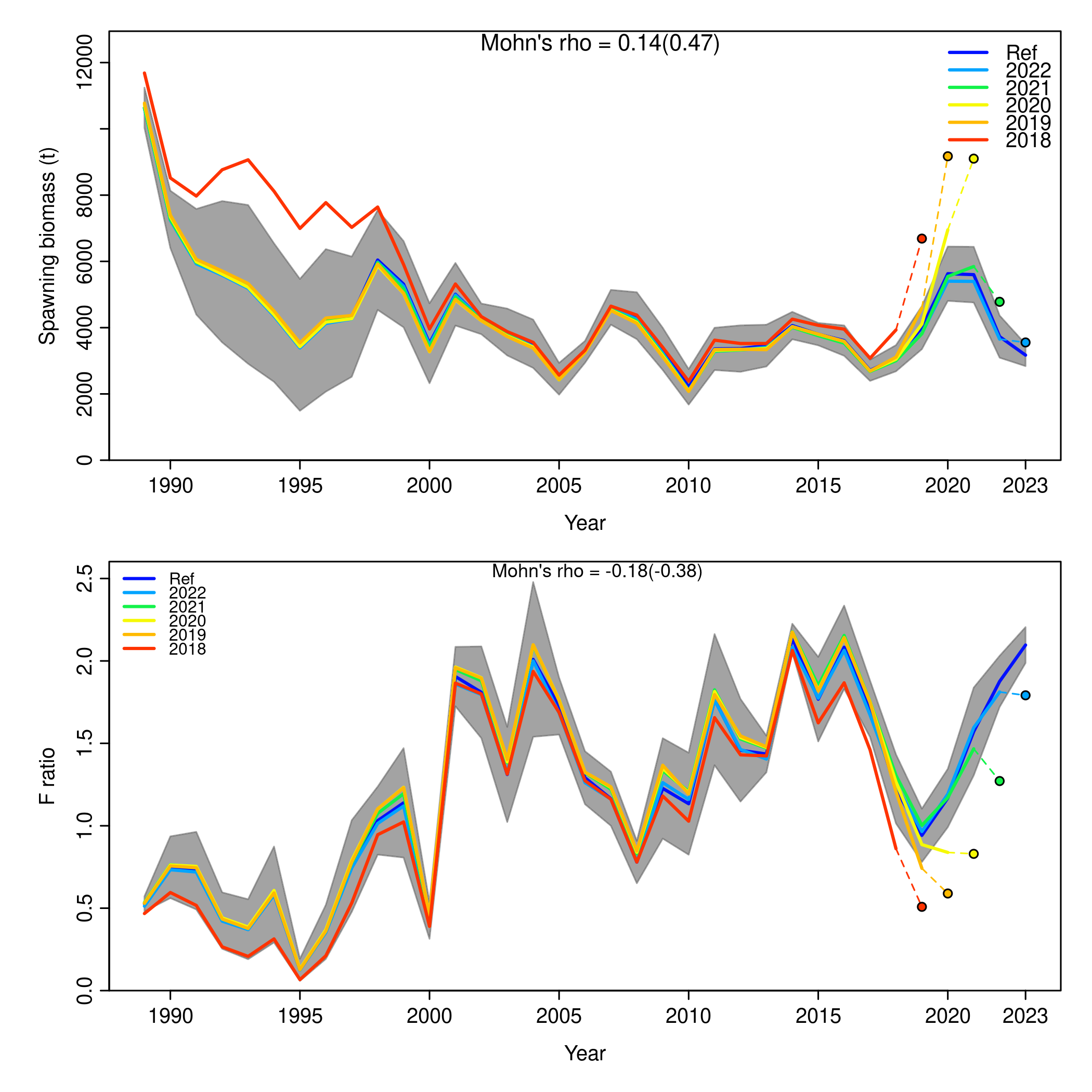
### Mean length residuals

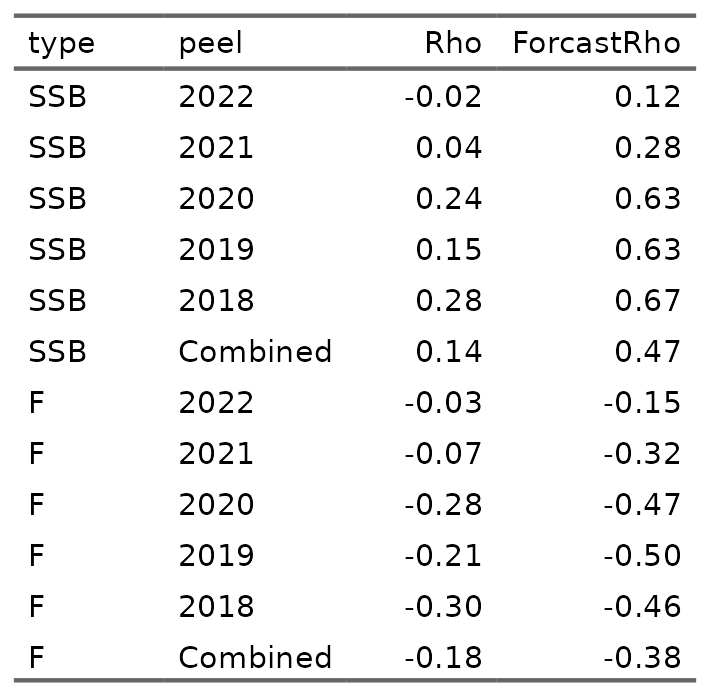






### Restrospective





## References