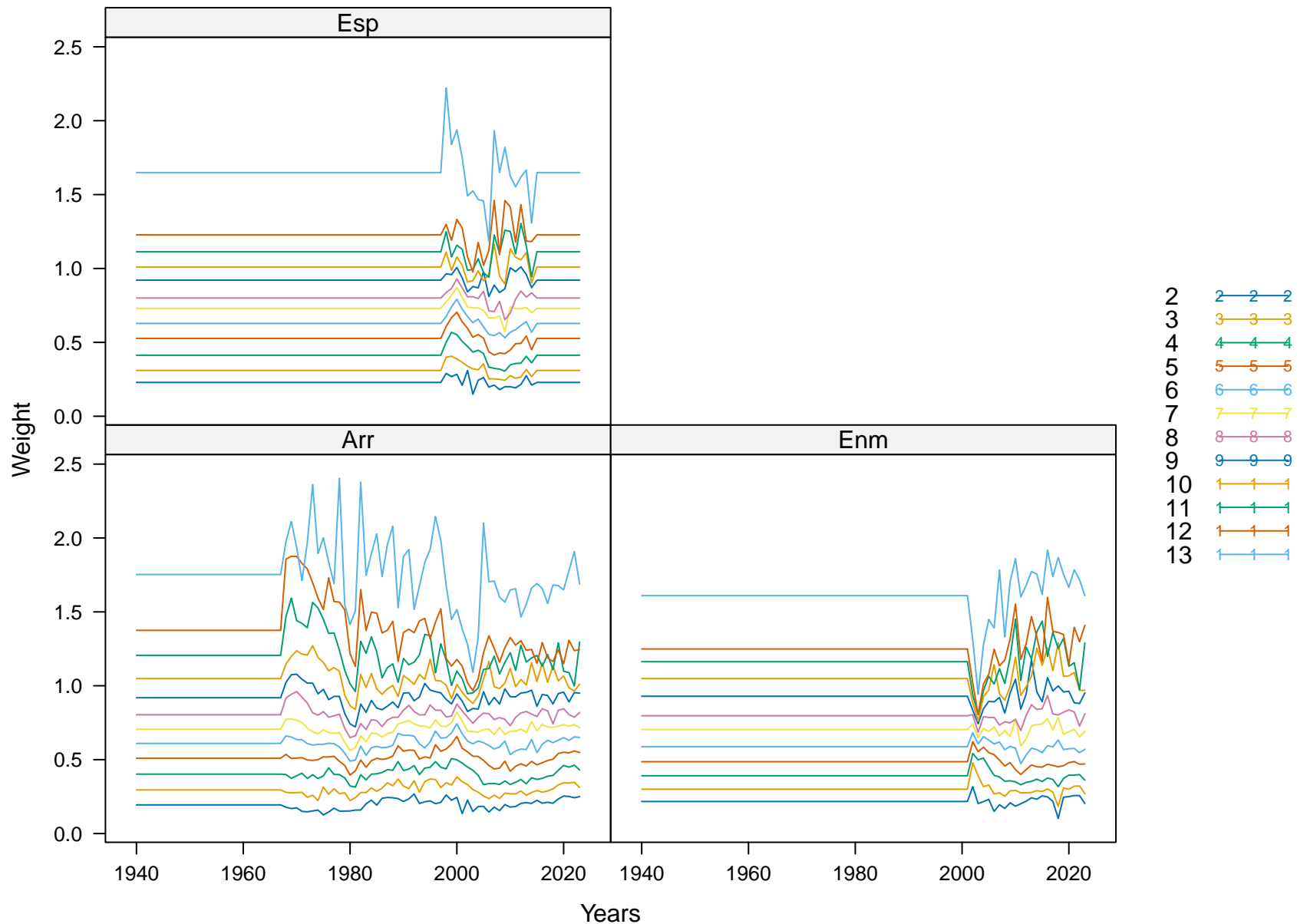
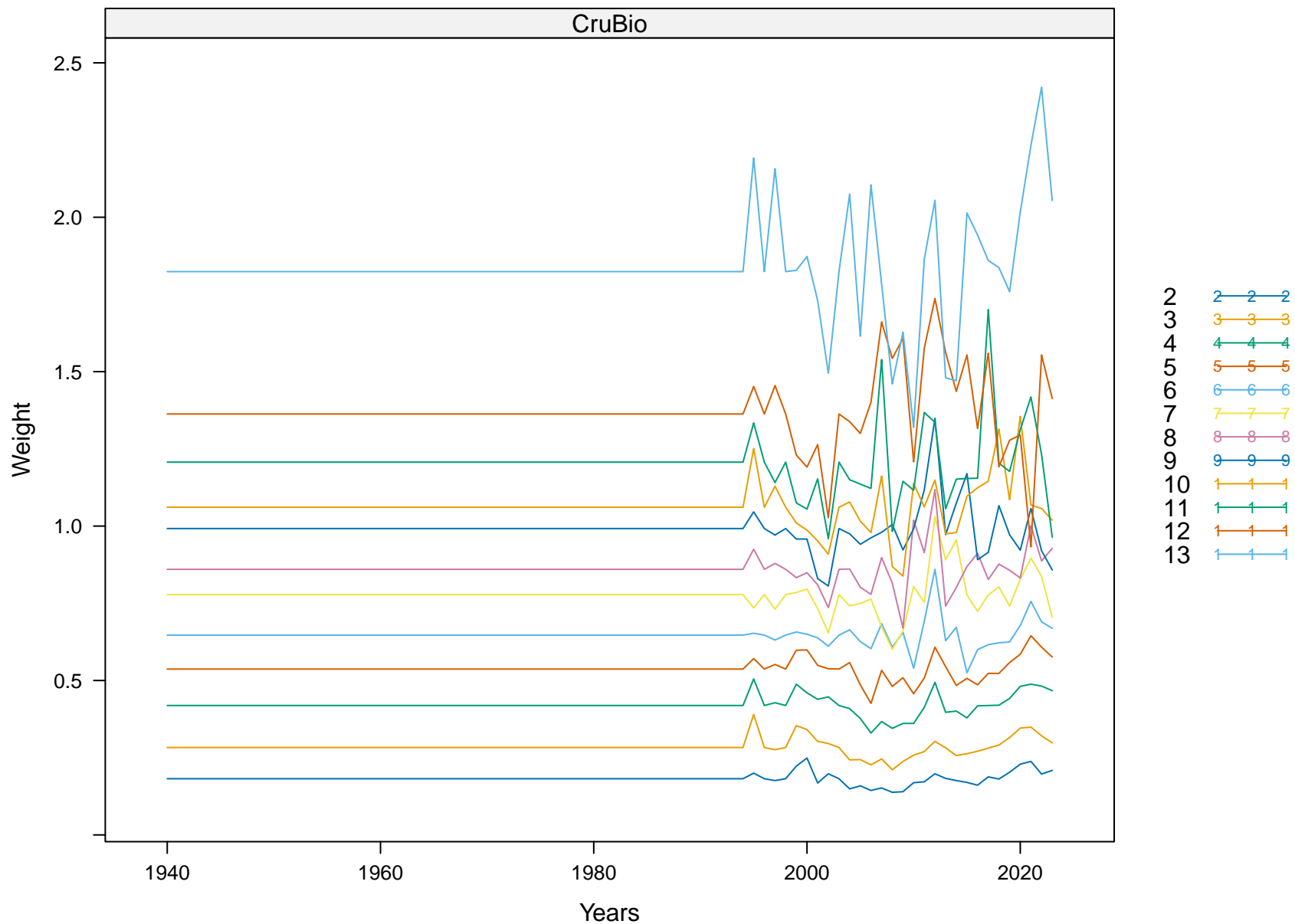


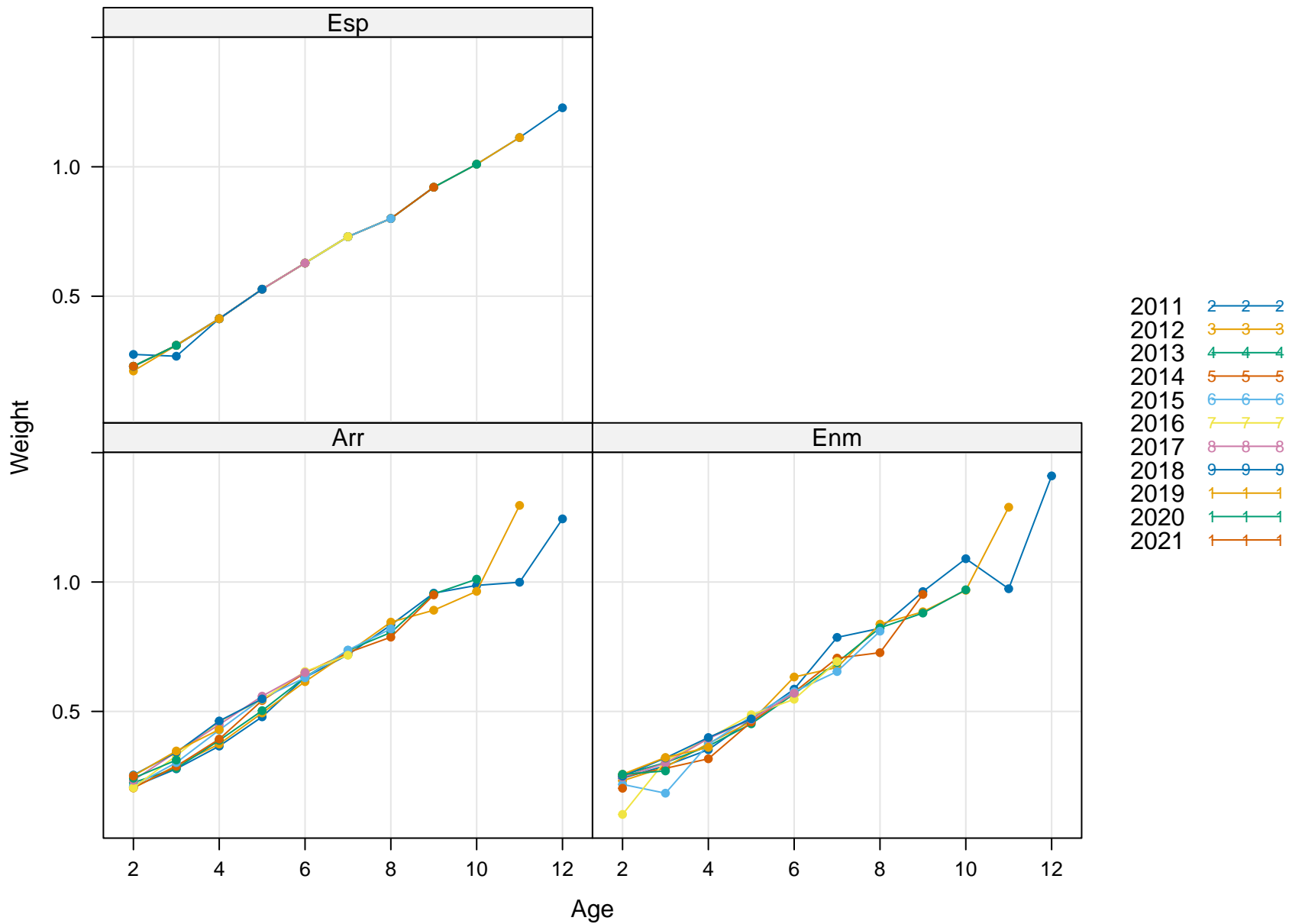
# Weight at age in the fishery



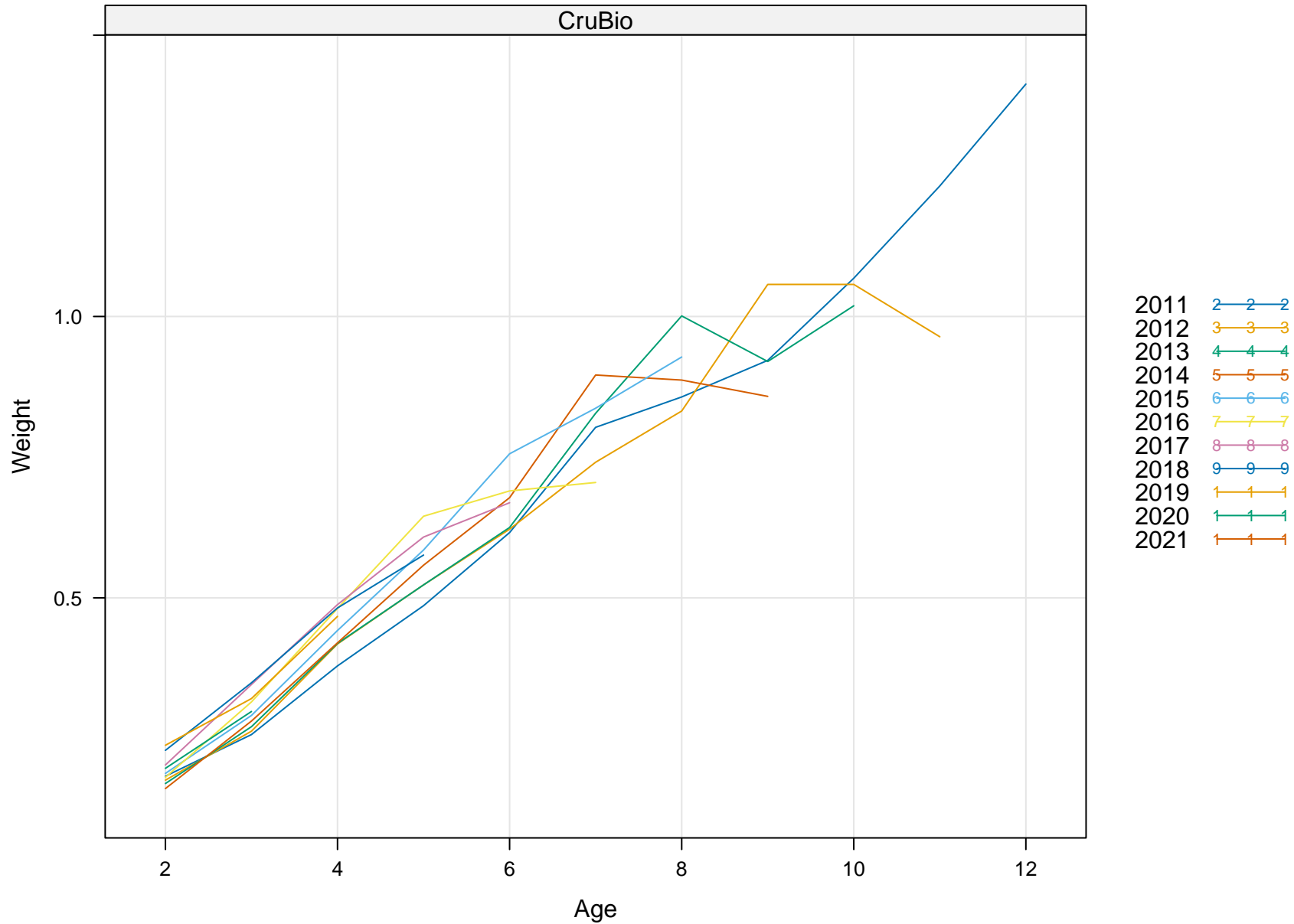
# Weight at age in the survey



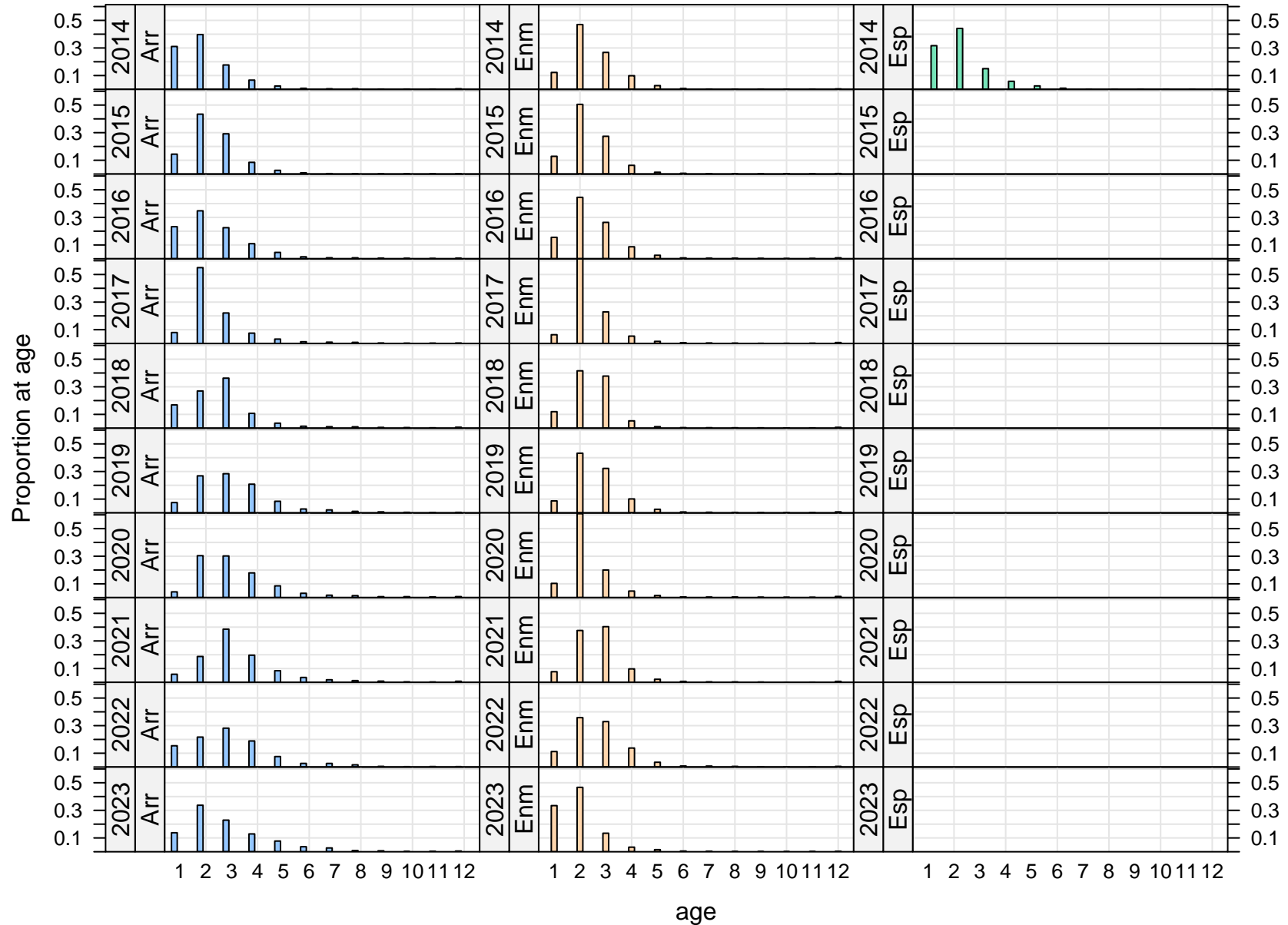
## Weight at age by cohort in the fleet



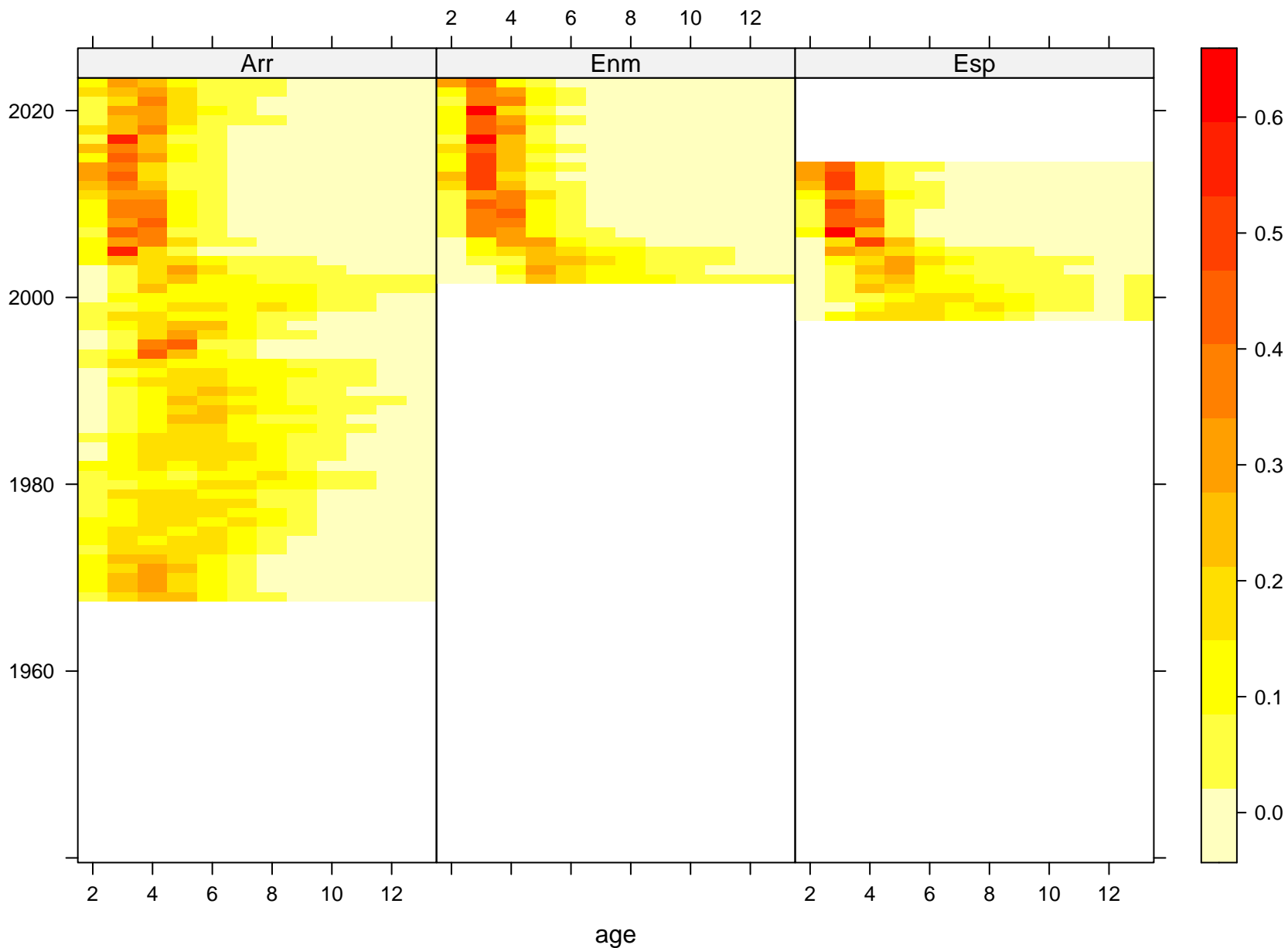
# Weight at age by cohort in the survey



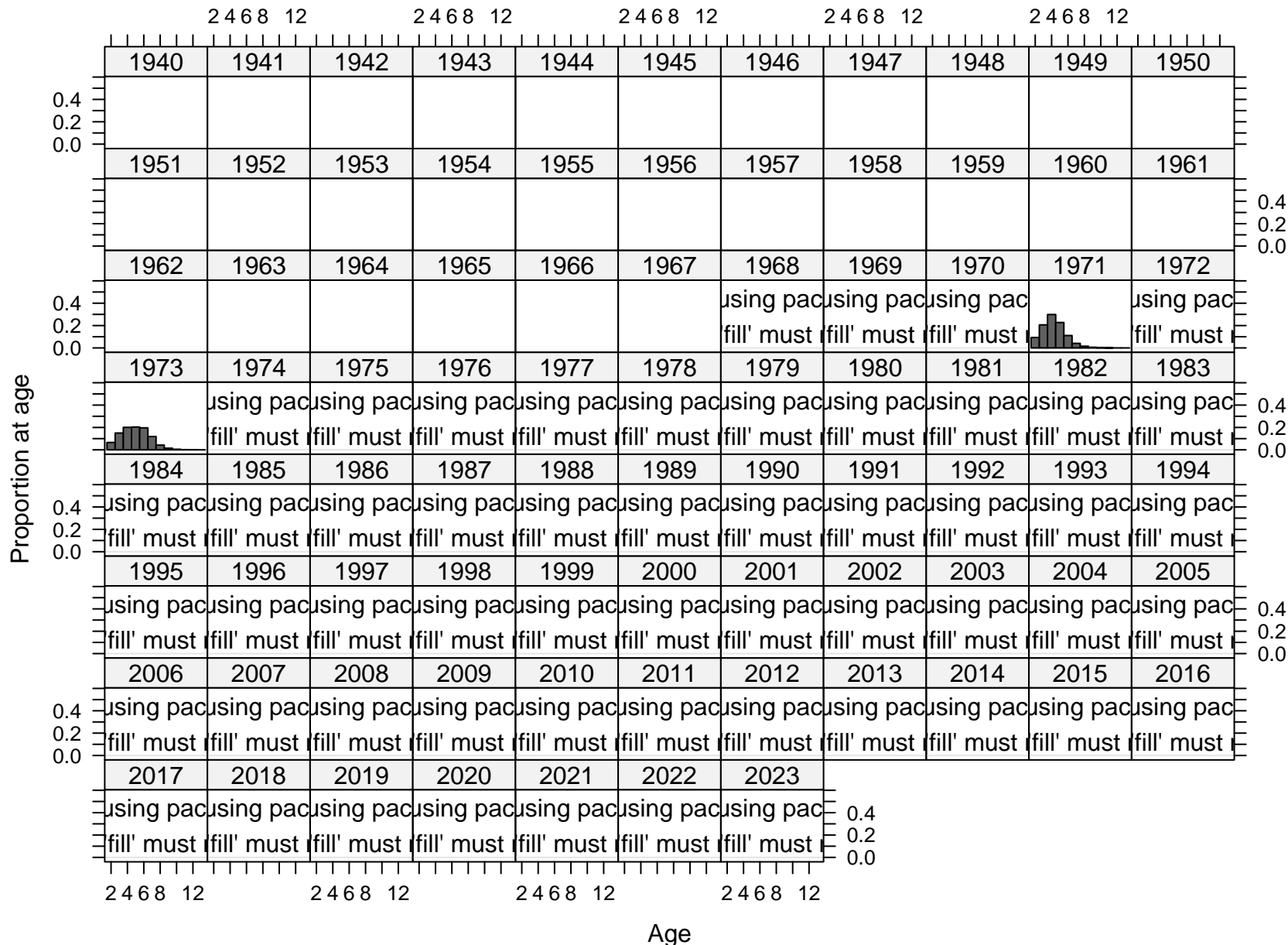
# Age composition in fleets



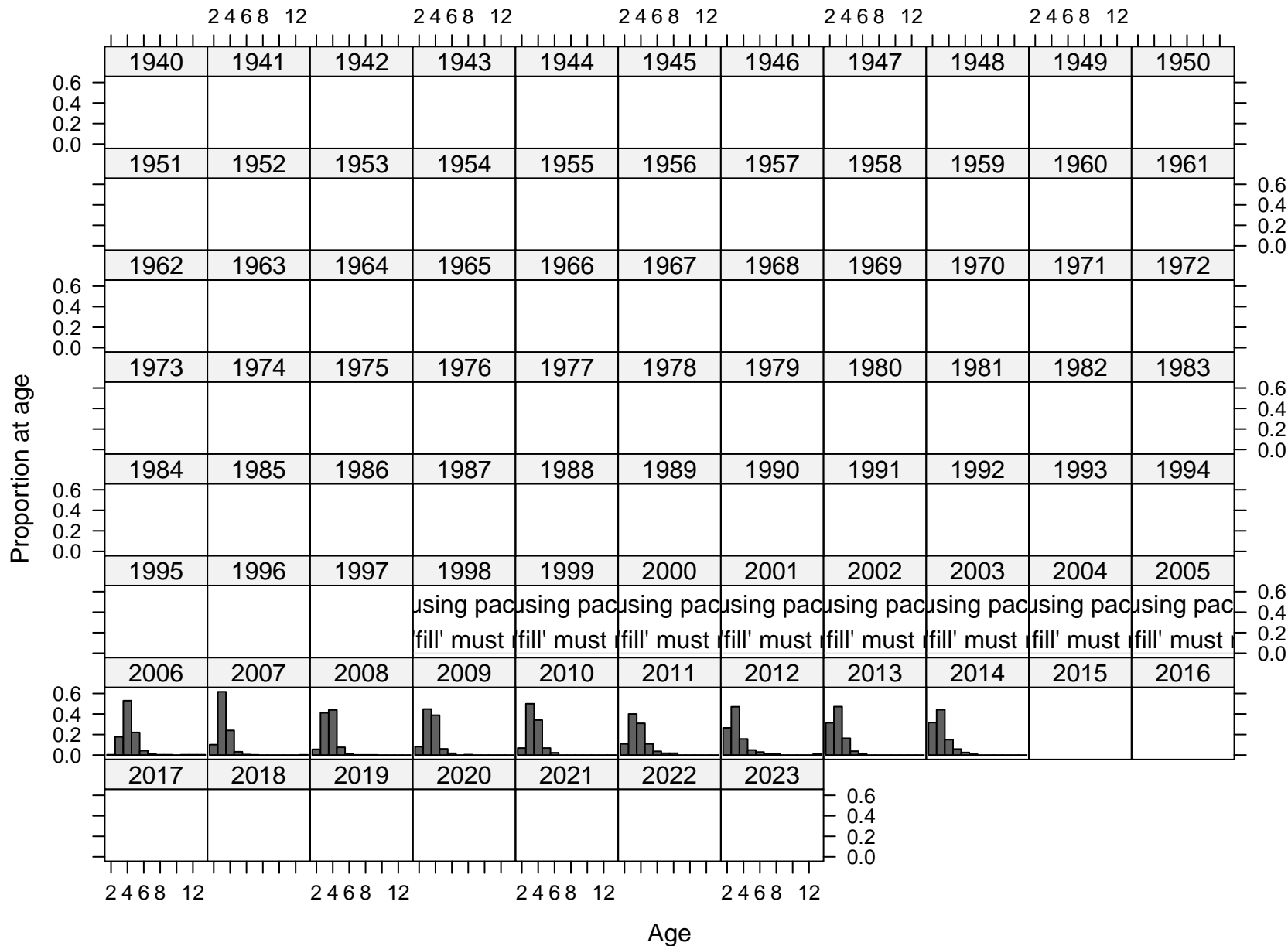
# Age composition in fleets



# Age composition in fleets Arr

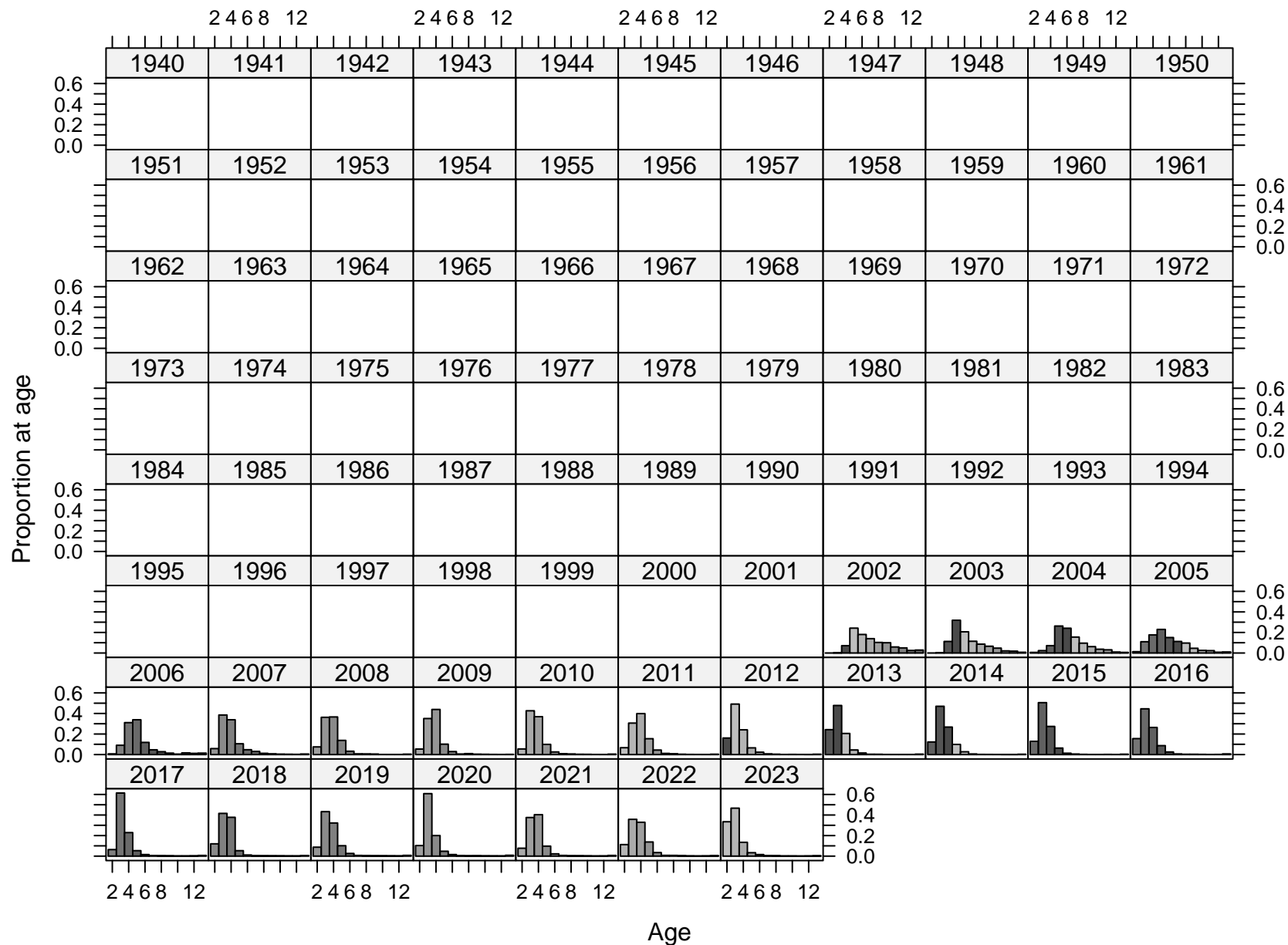


# Age composition in fleets Esp

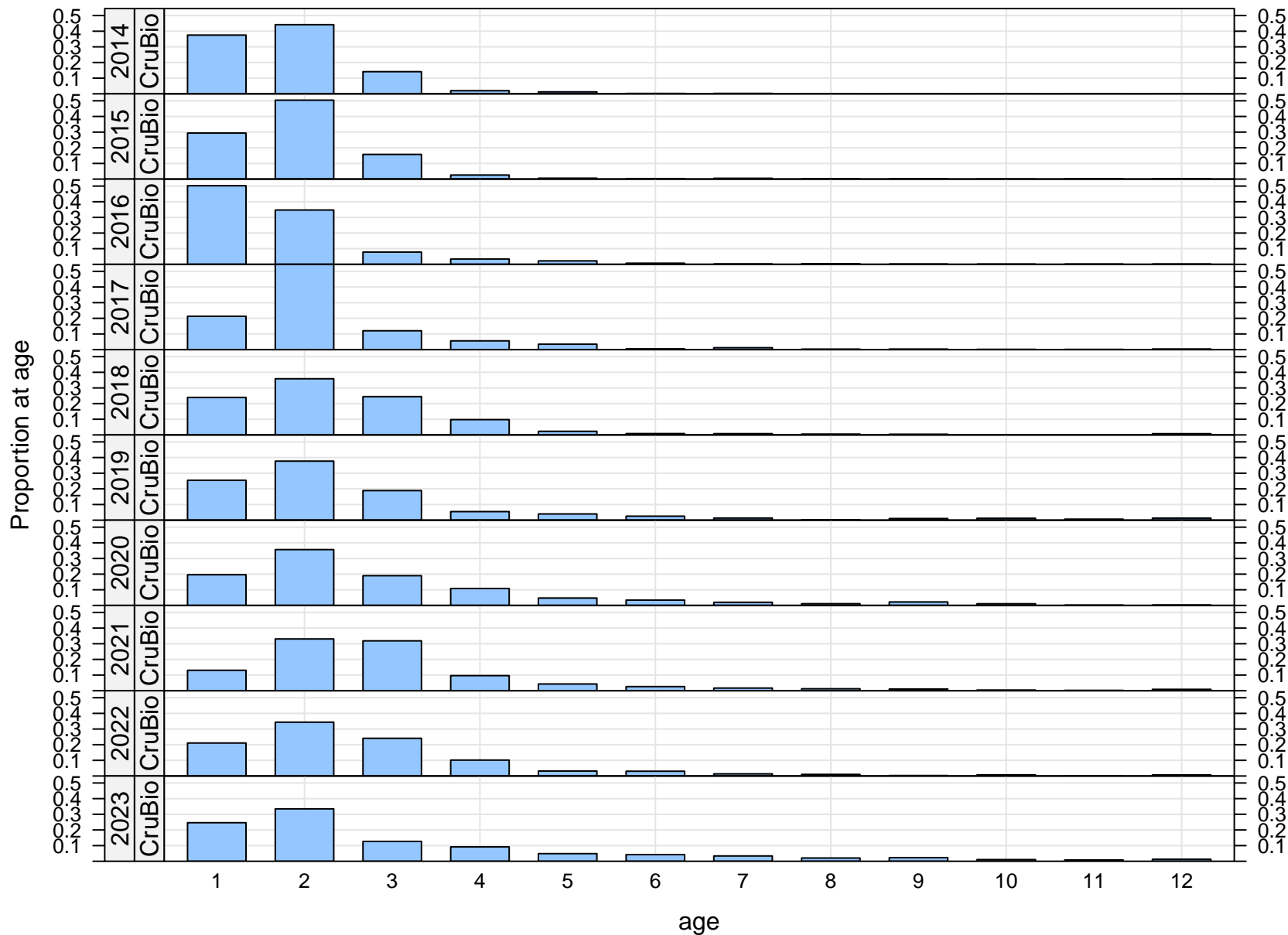




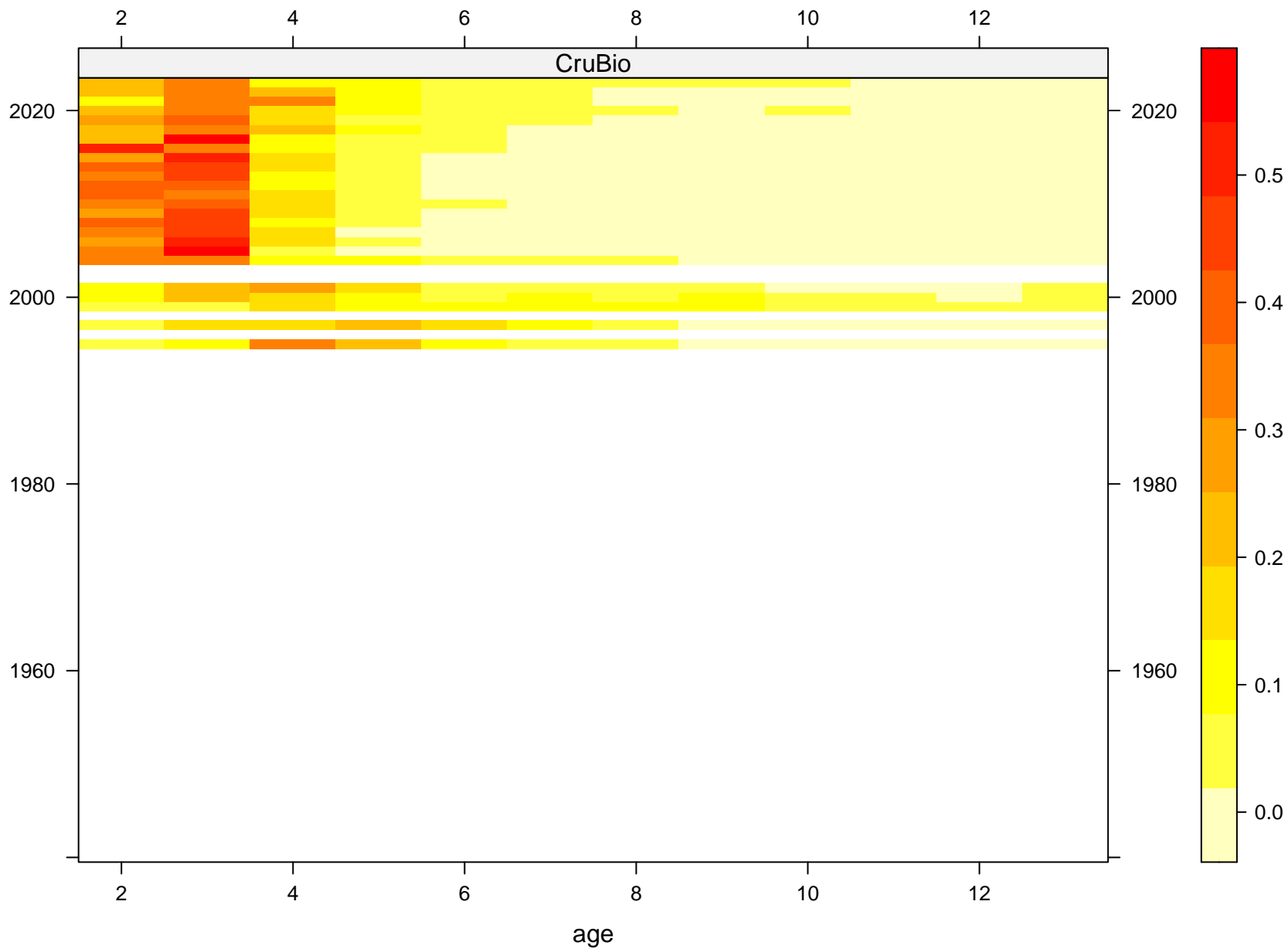
# Age composition in fleets Enm



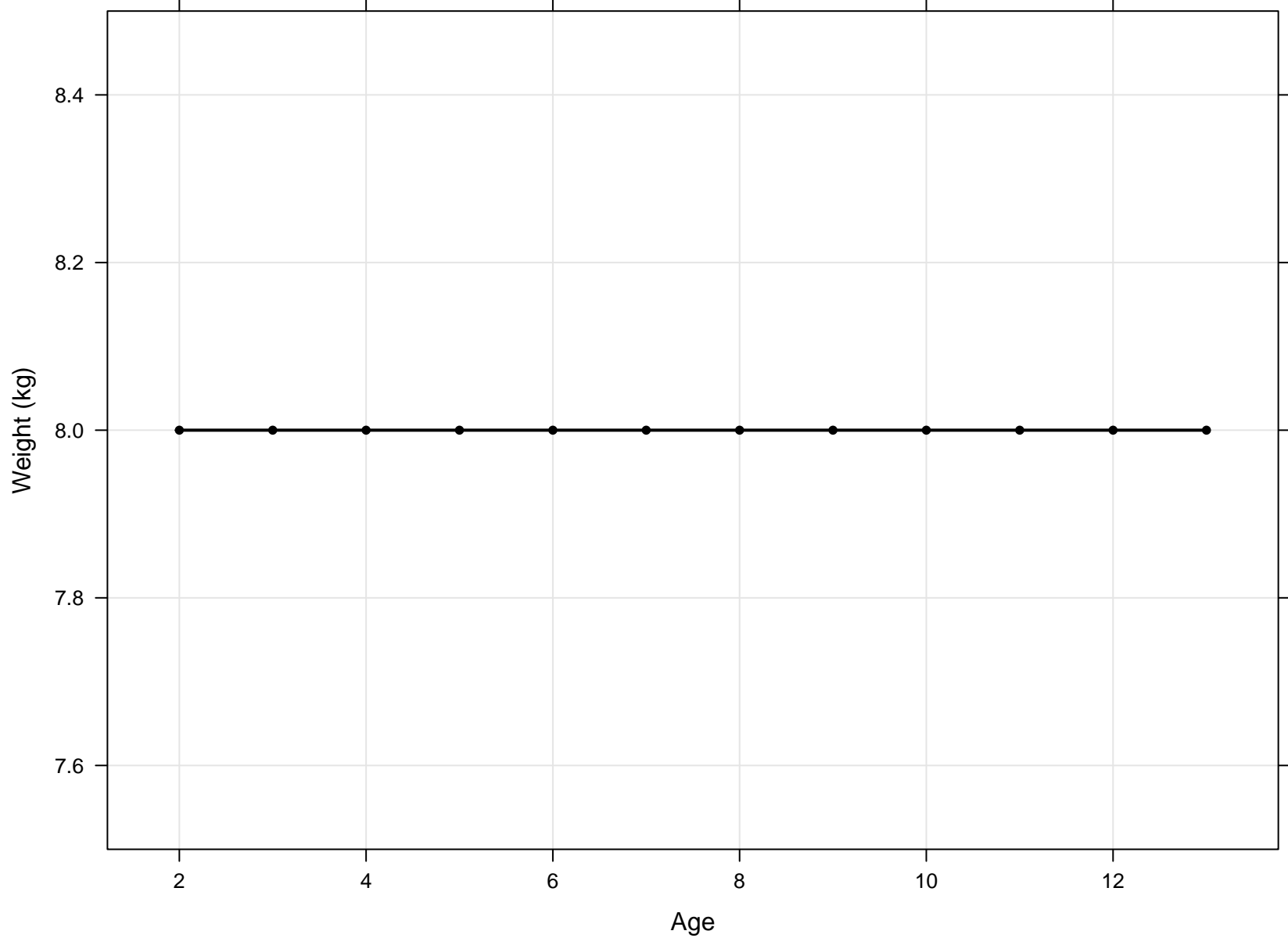
## Age composition in surveys



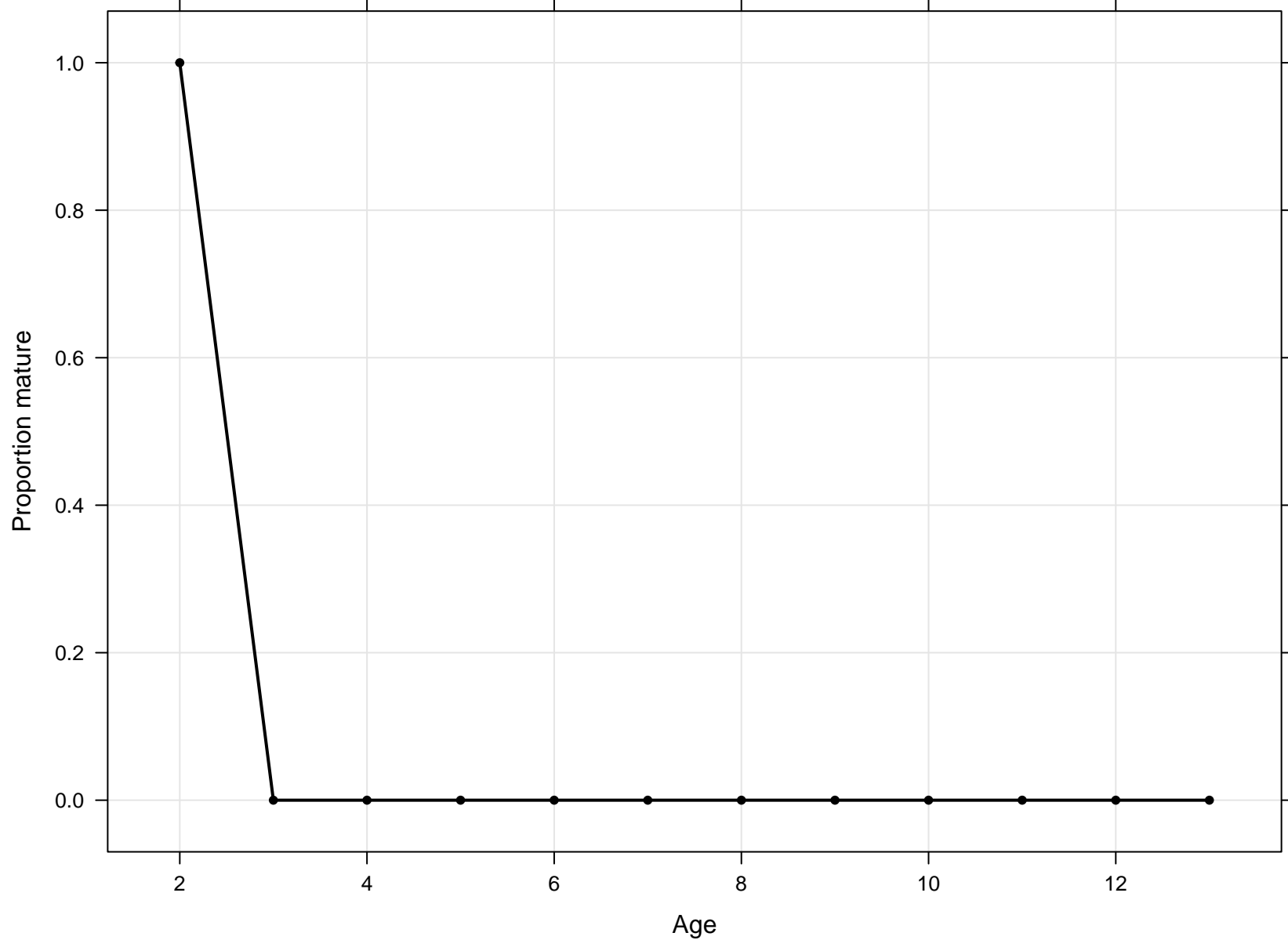
# Age composition in surveys



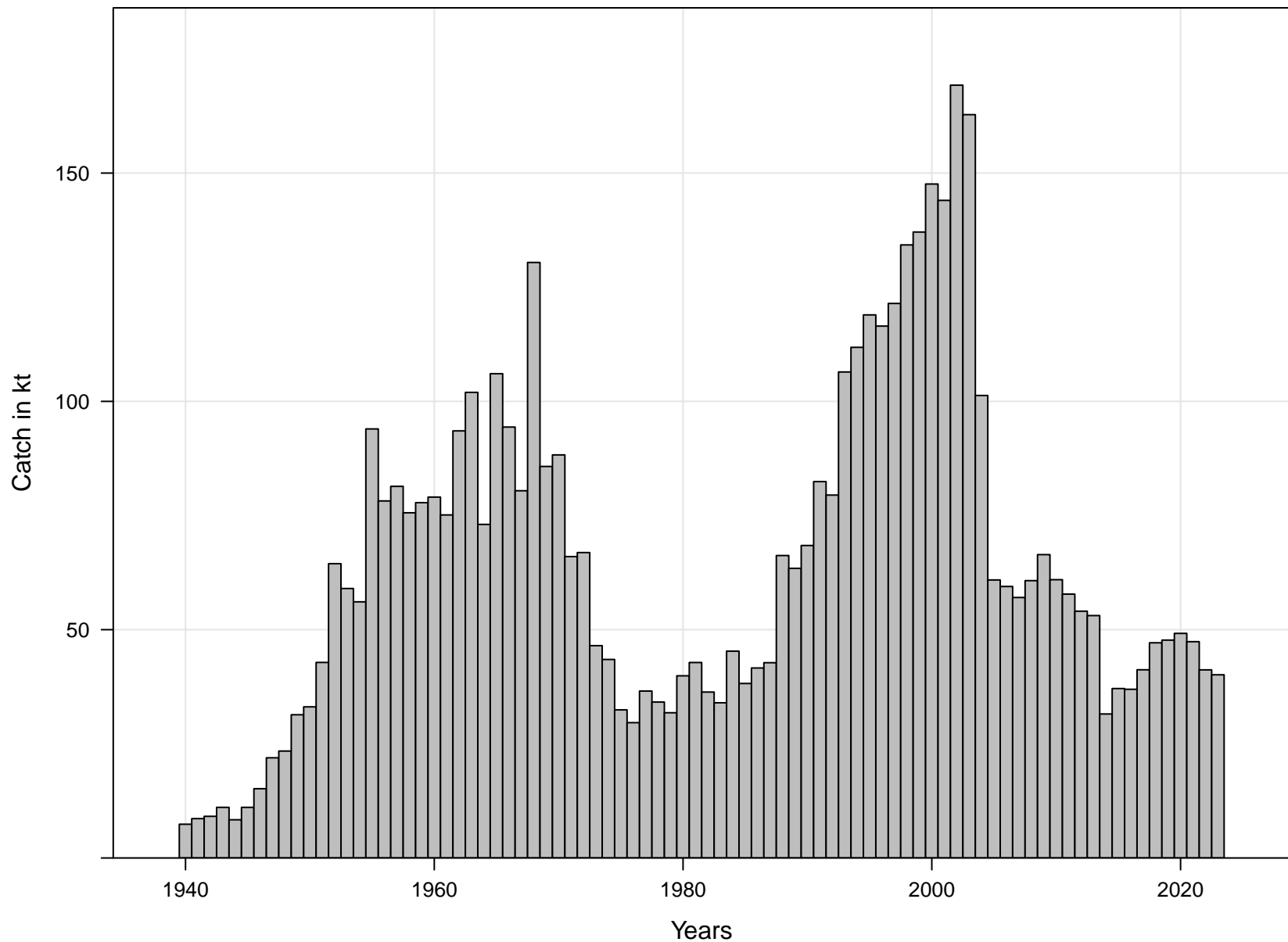
Weight in the stock



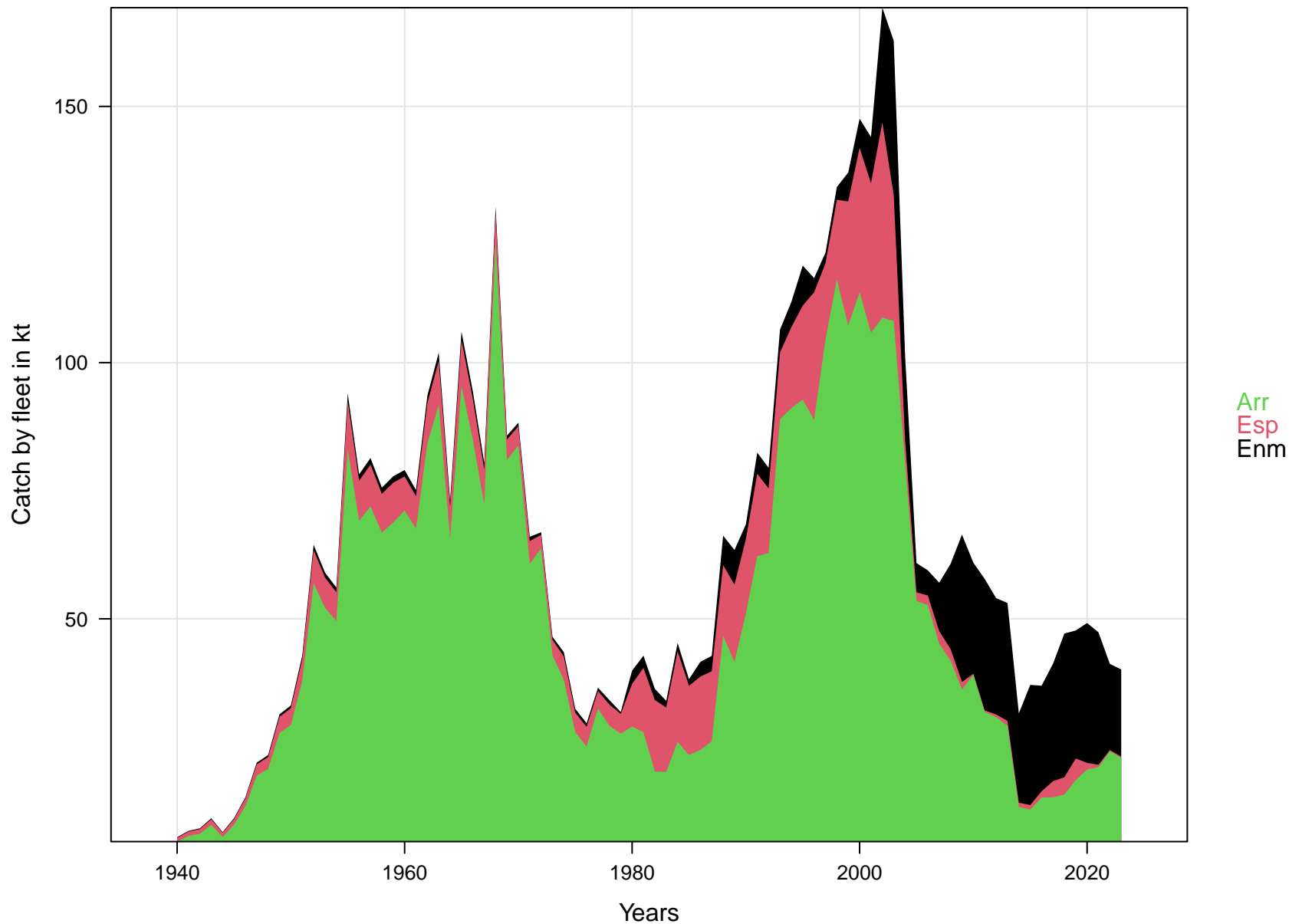
**Maturity in the stock**



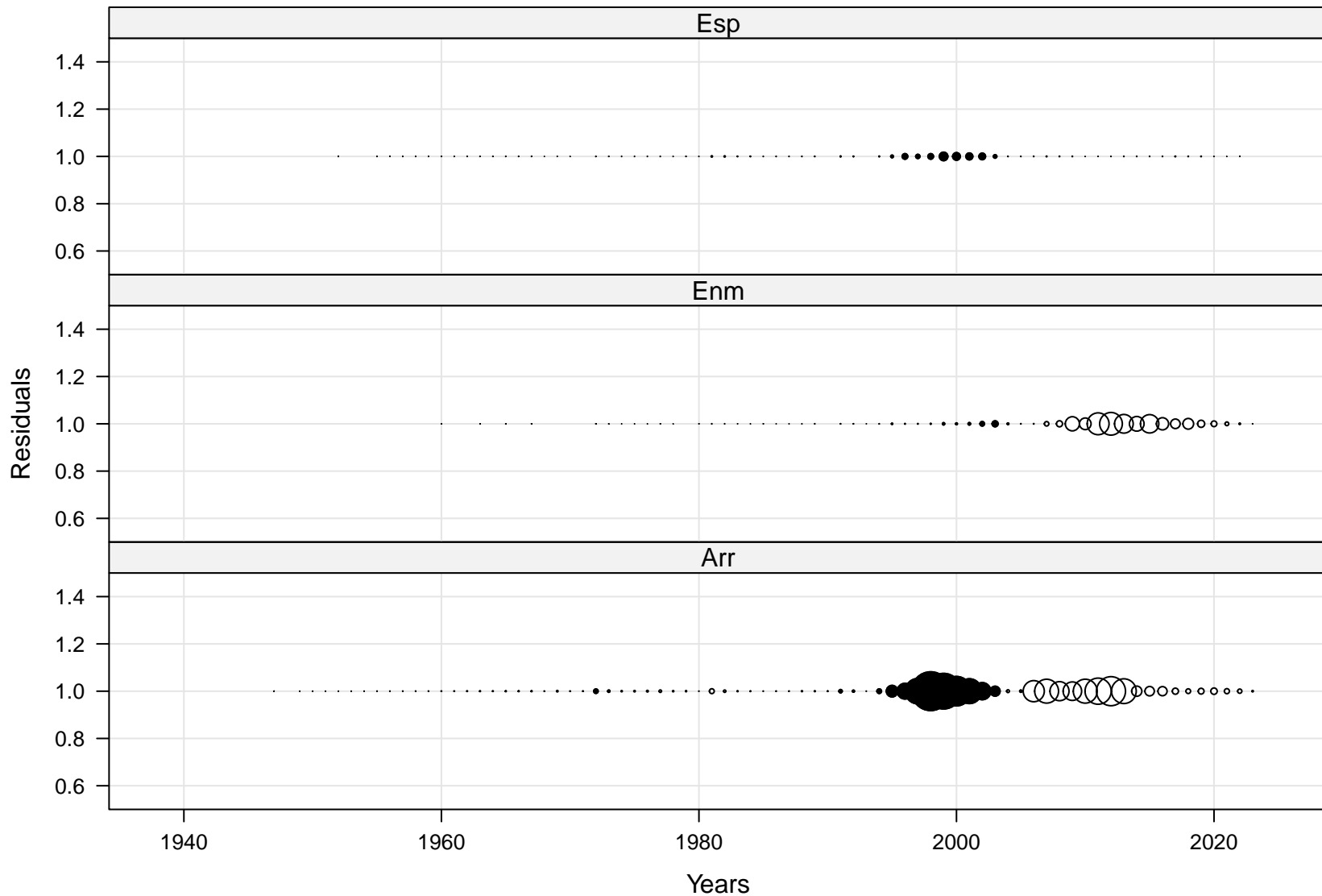
# Total catch



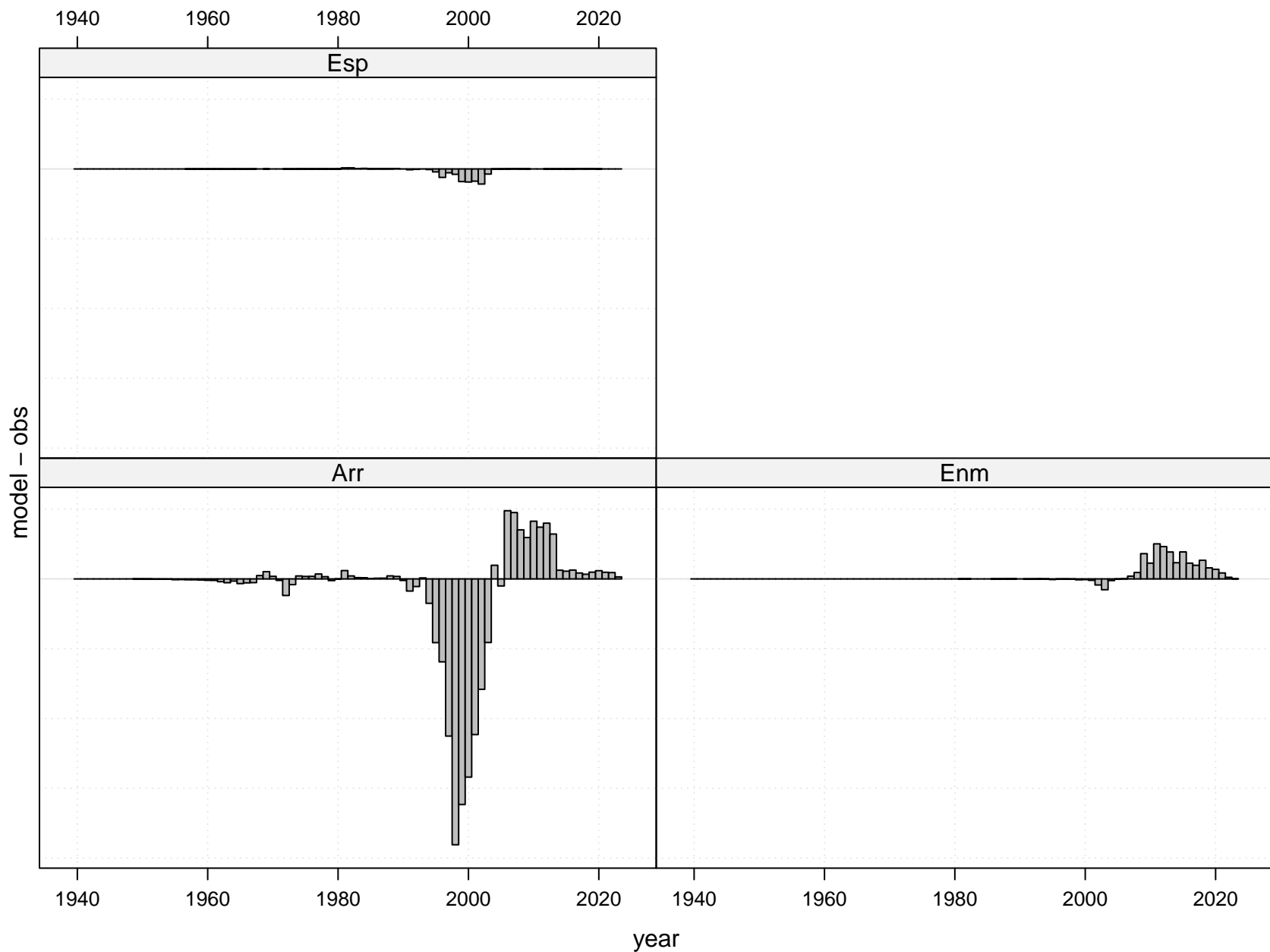
Total catch by fleet



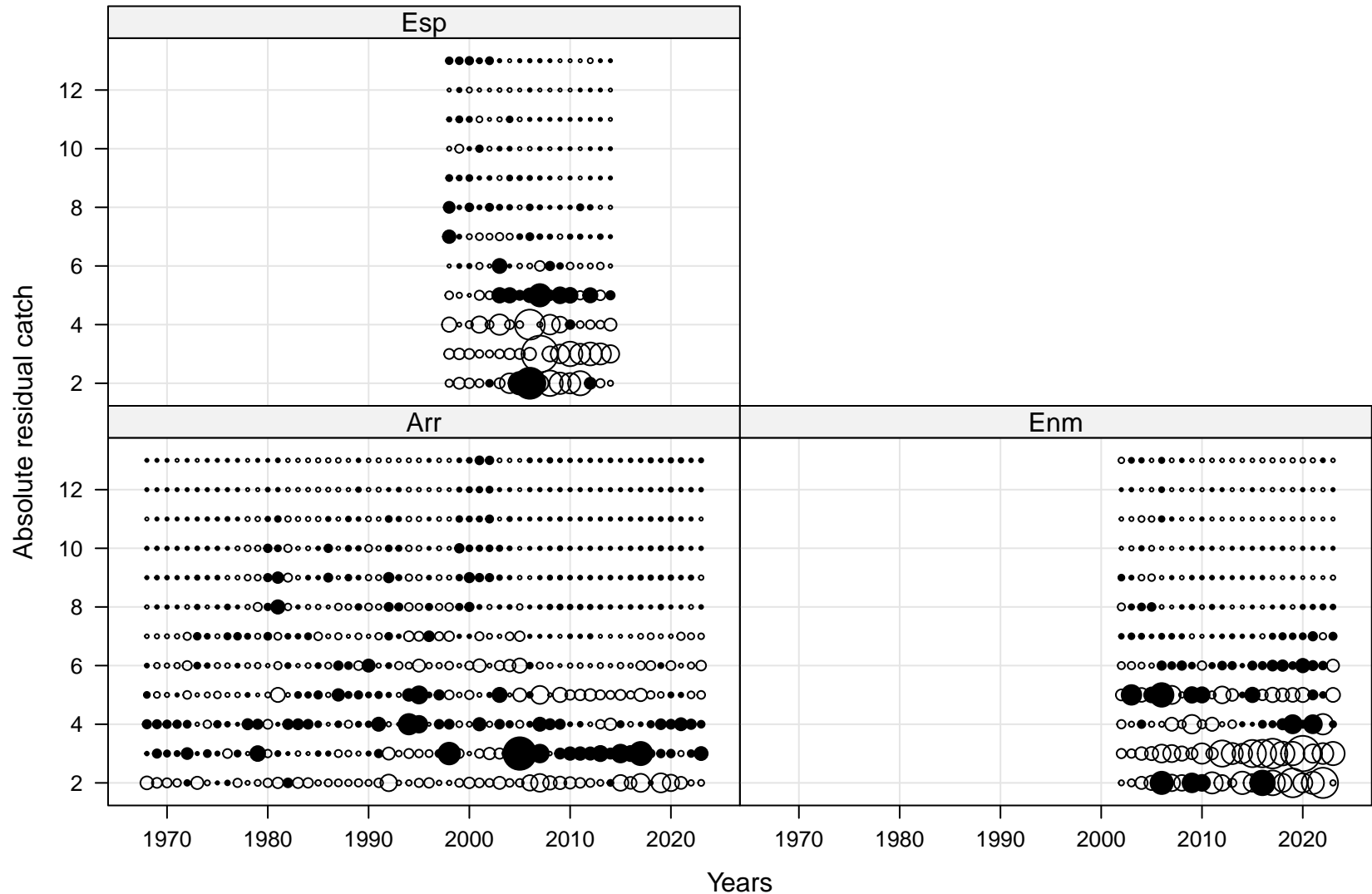
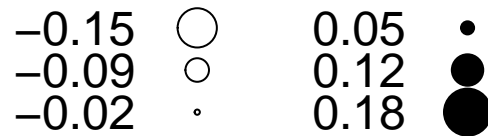
# Catch residuals by fleet

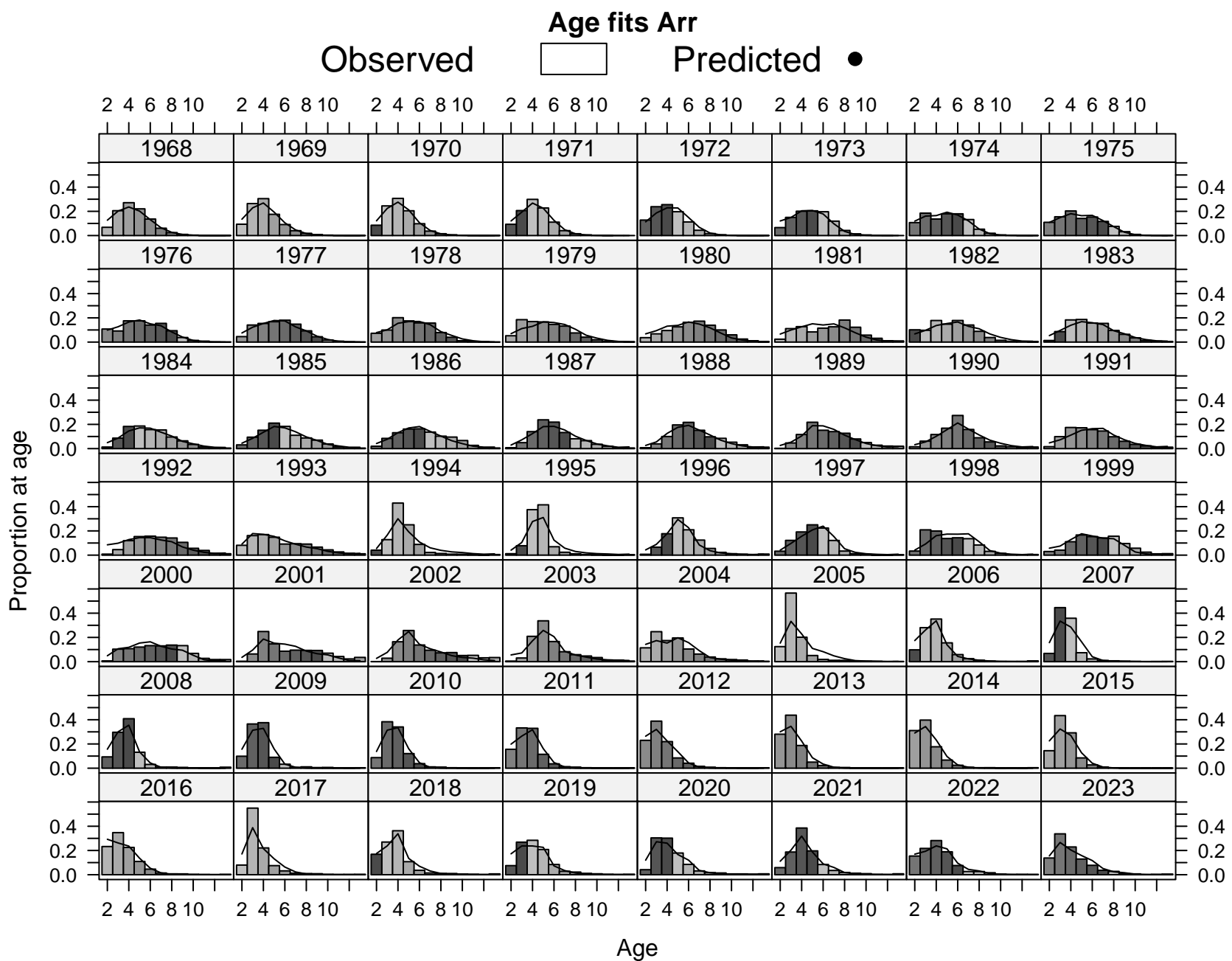


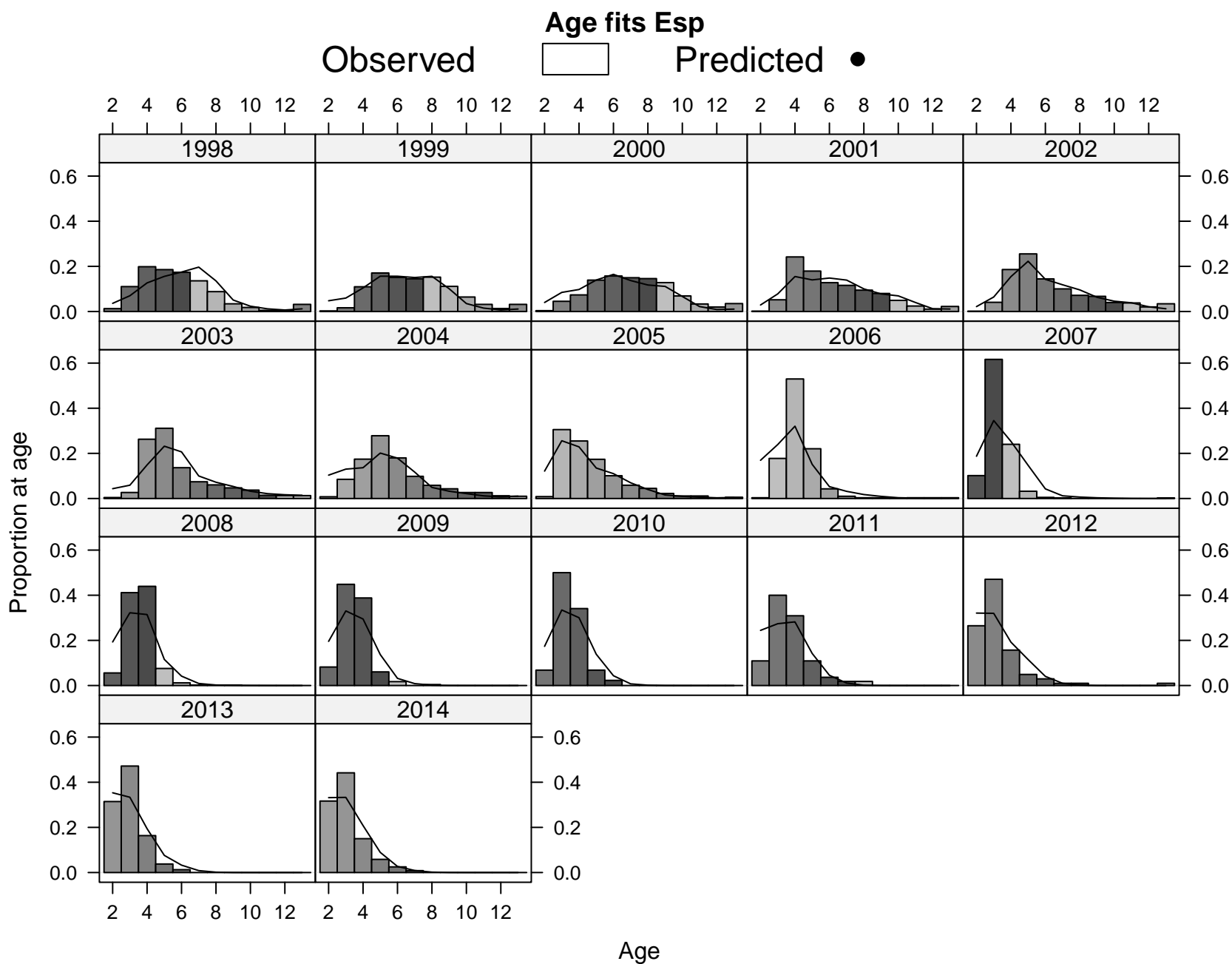


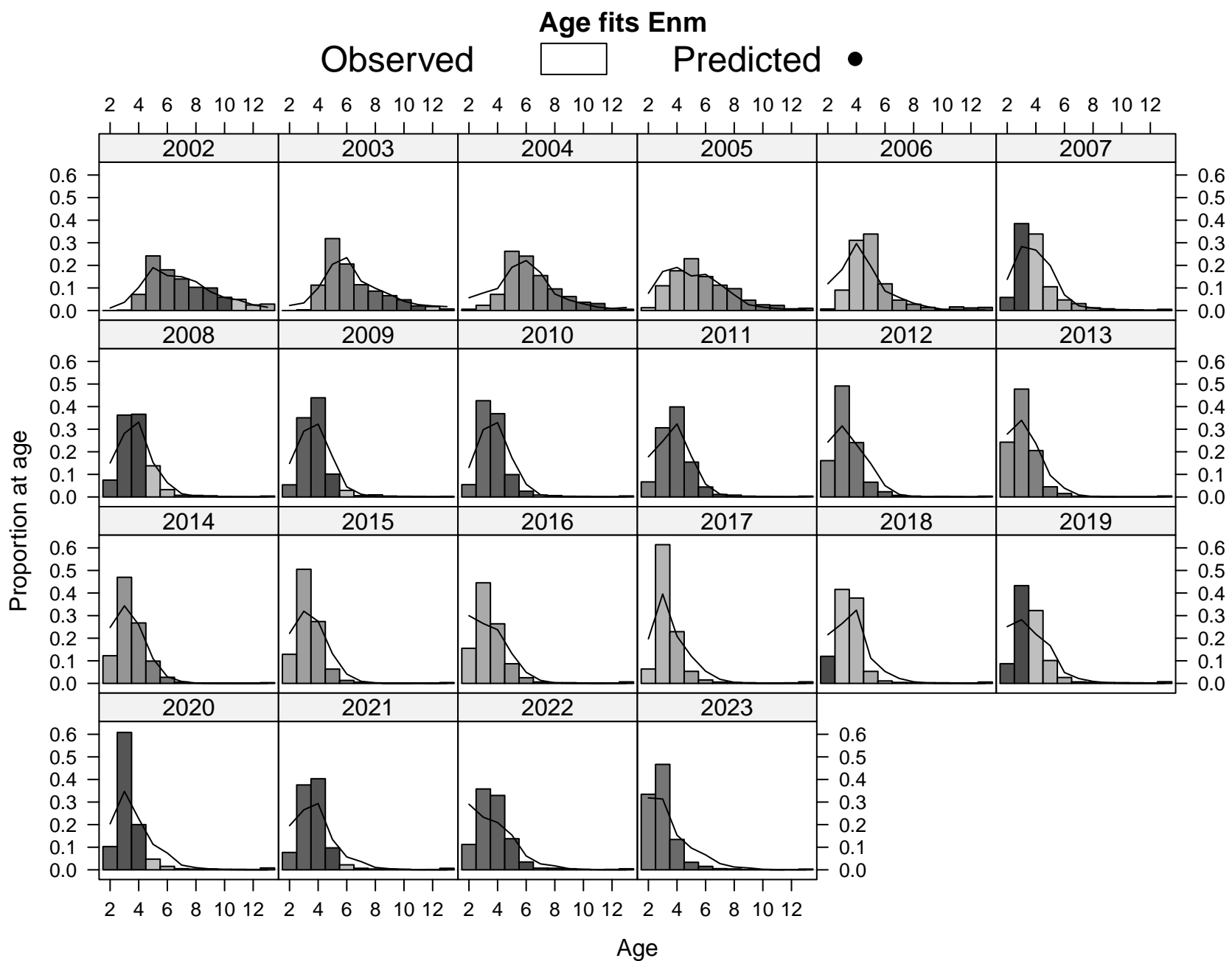


# Absolute residual catch by fleet







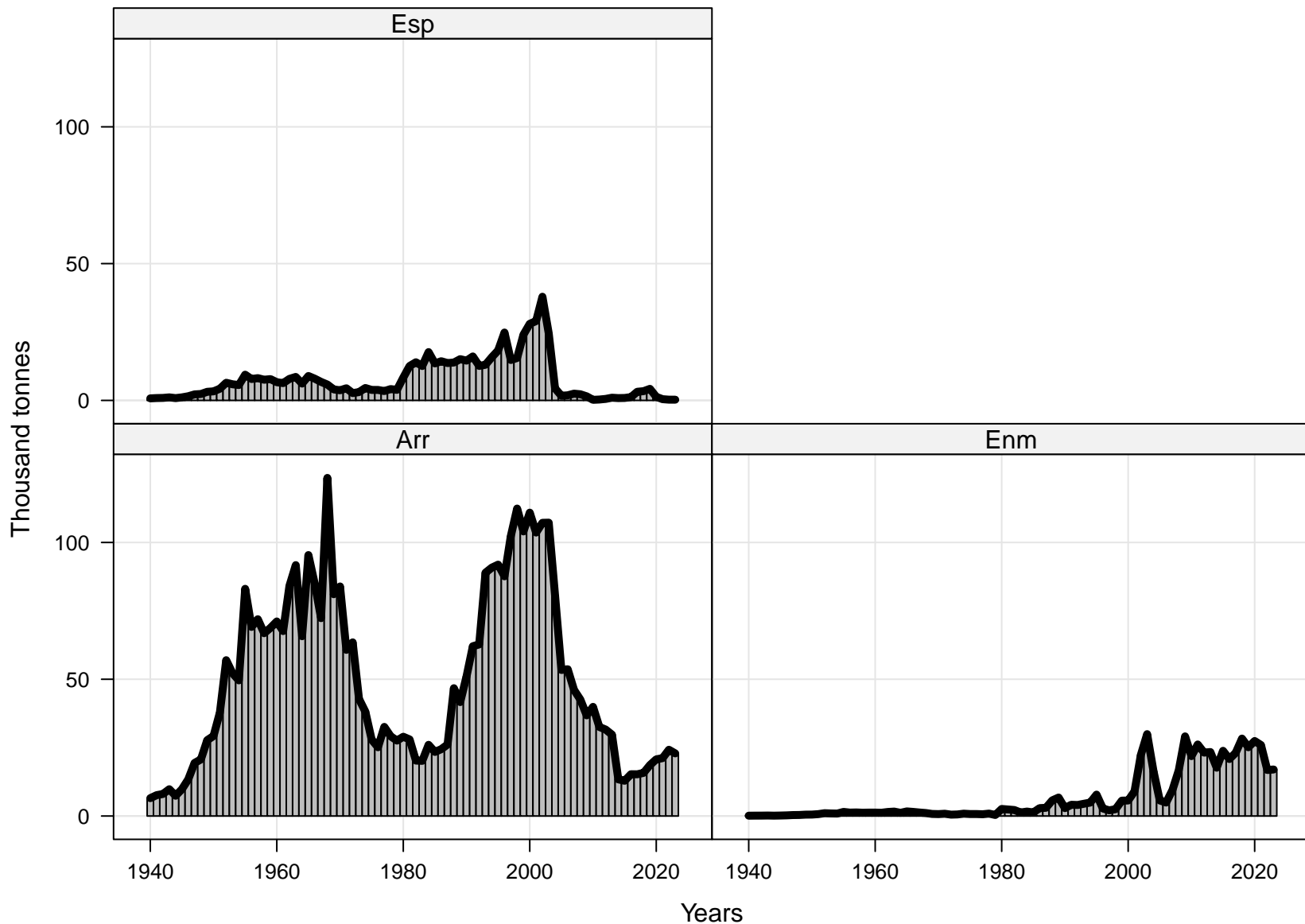


# Predicted and observed catches by fleet

Observed

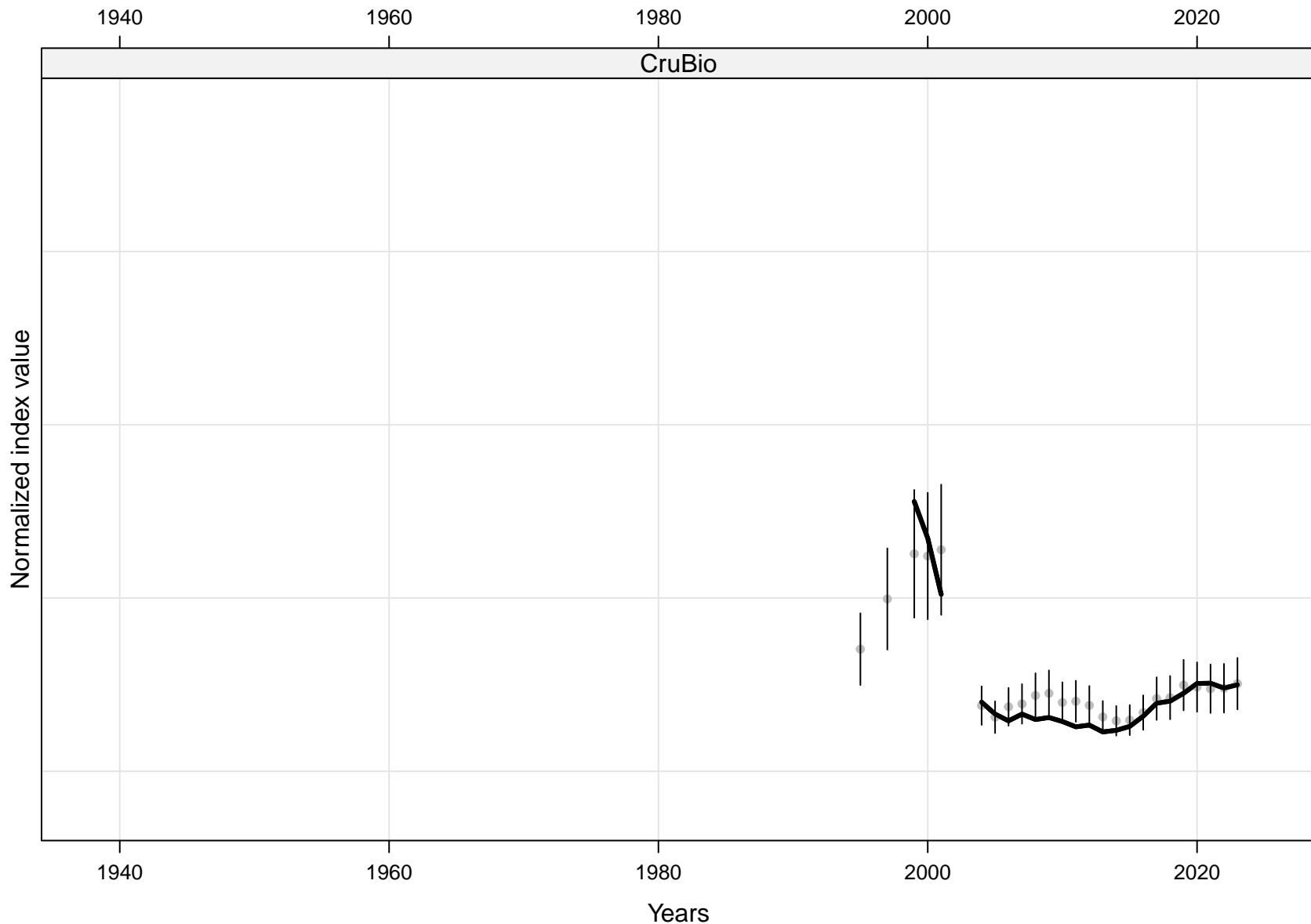


Predicted



# Predicted and observed indices

Observed • Predicted —

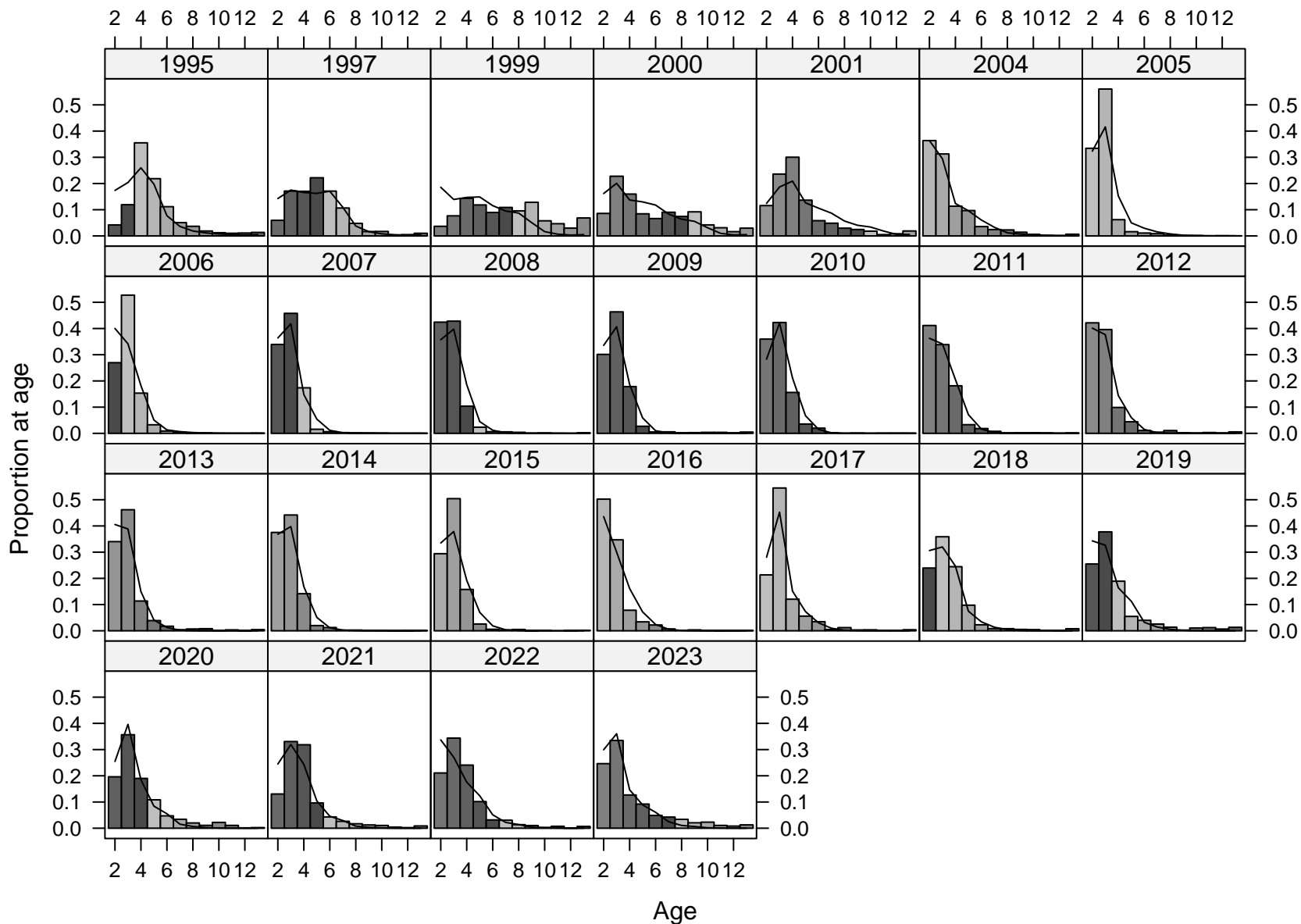


# Age fits CruBio

Observed



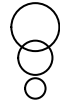
Predicted



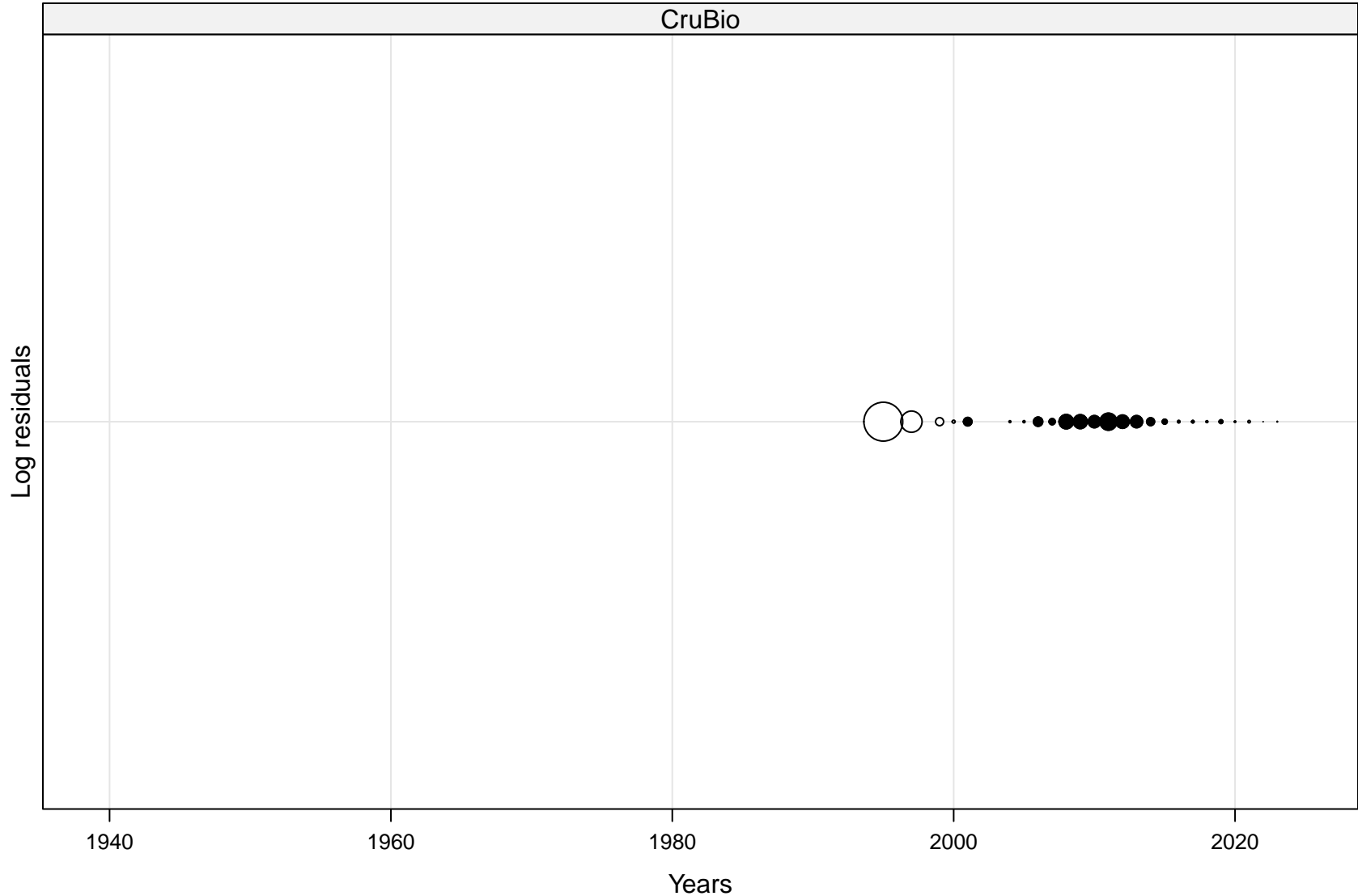


# Standardized survey residuals

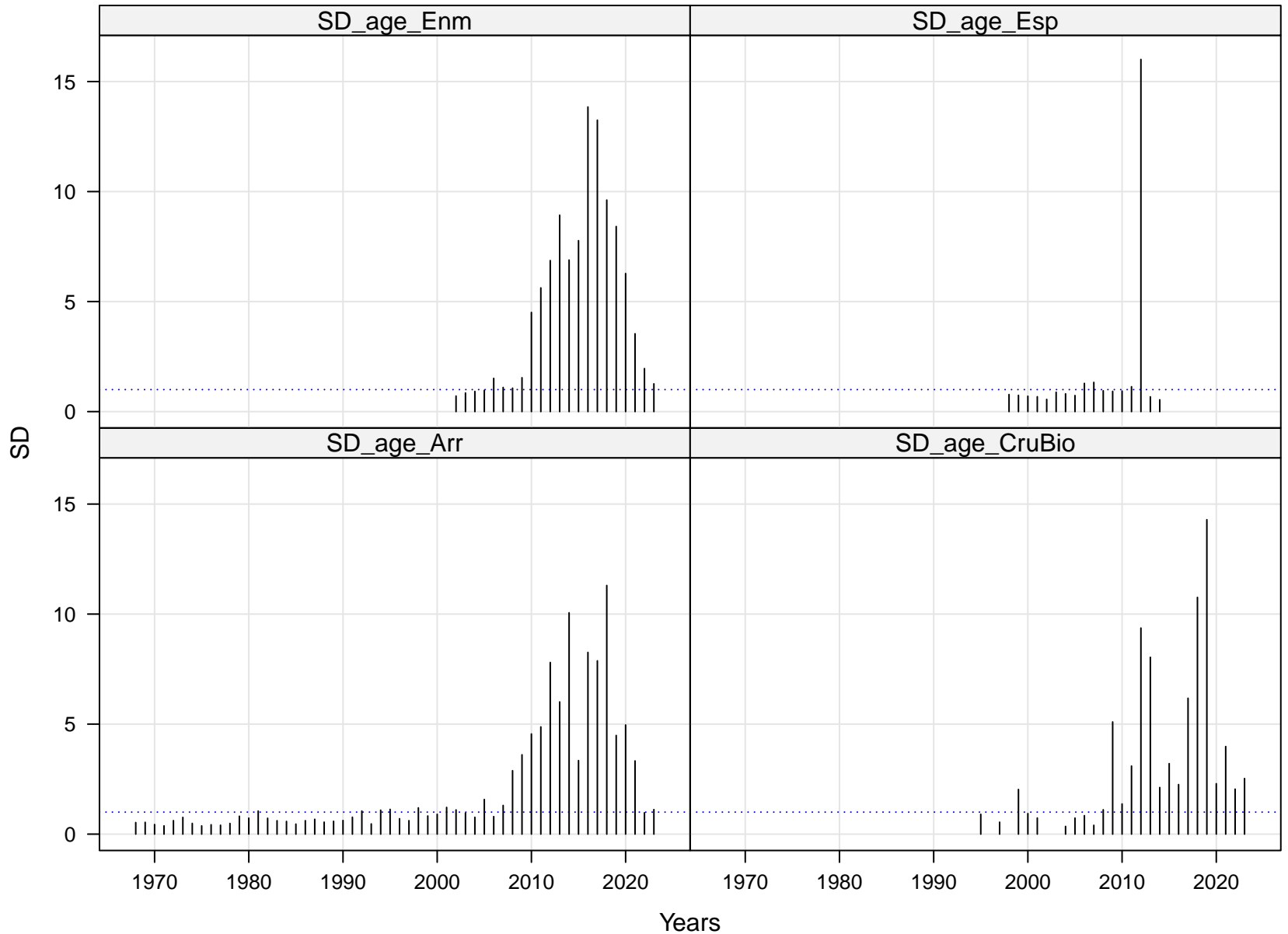
-6.99  
-4.99  
-2.98



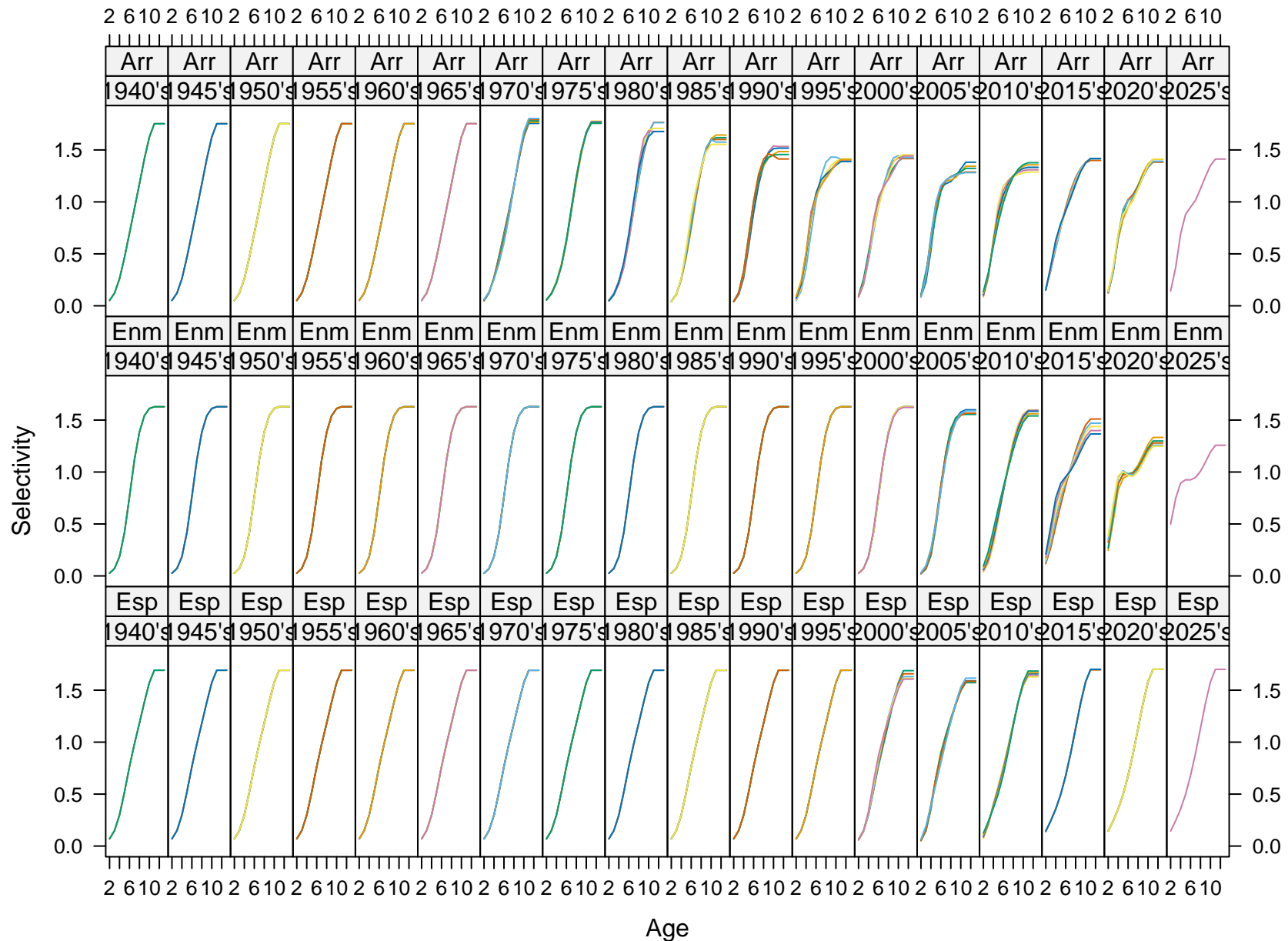
-0.97  
1.04  
3.05



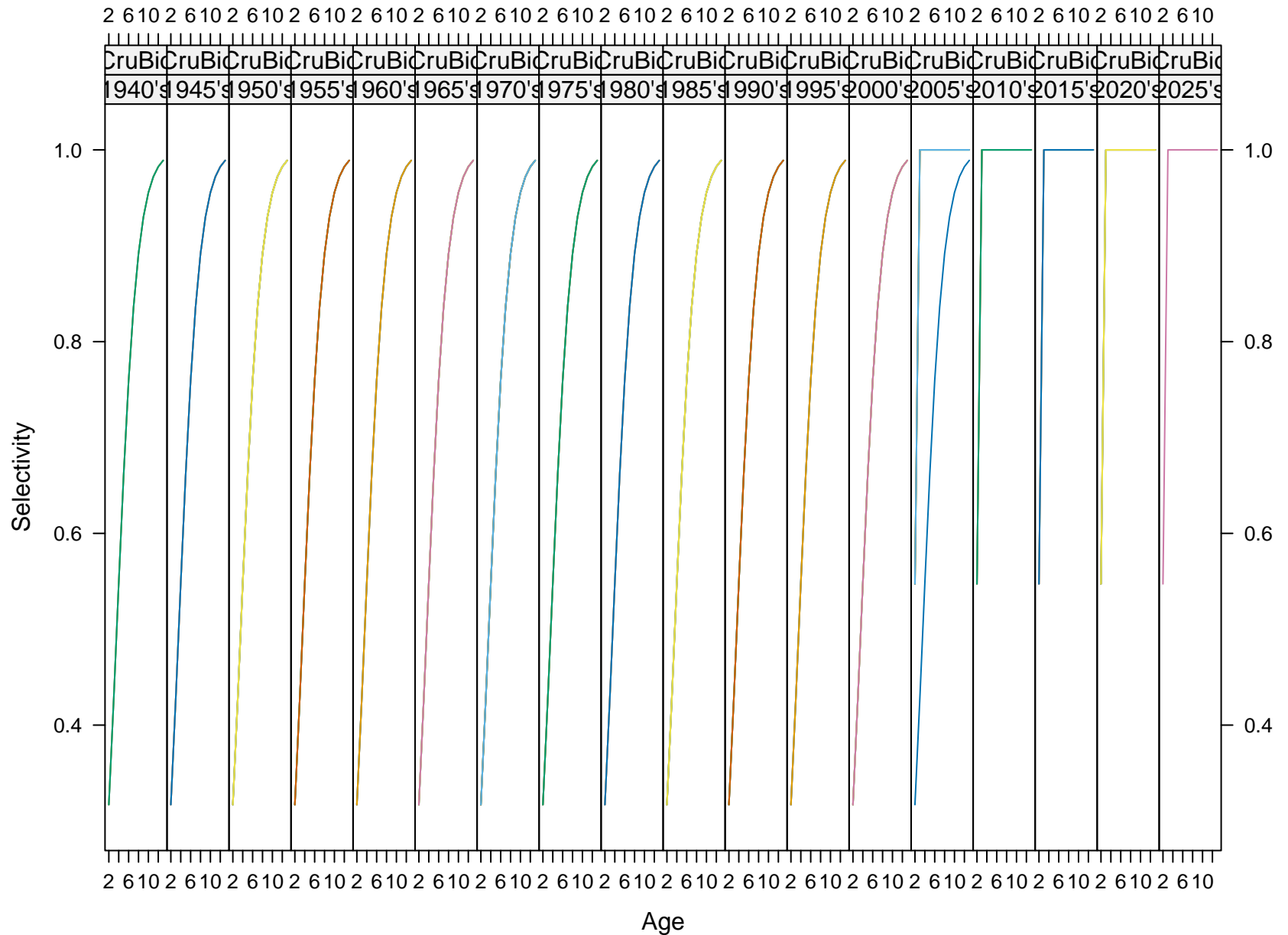
# SD per input series



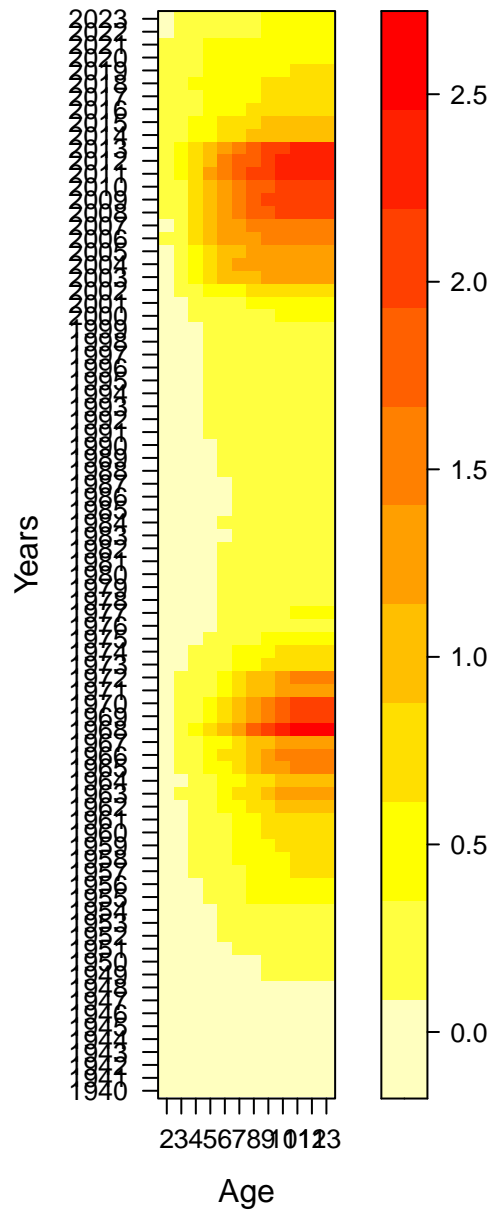
# Selectivity of the Fishery by Pentad



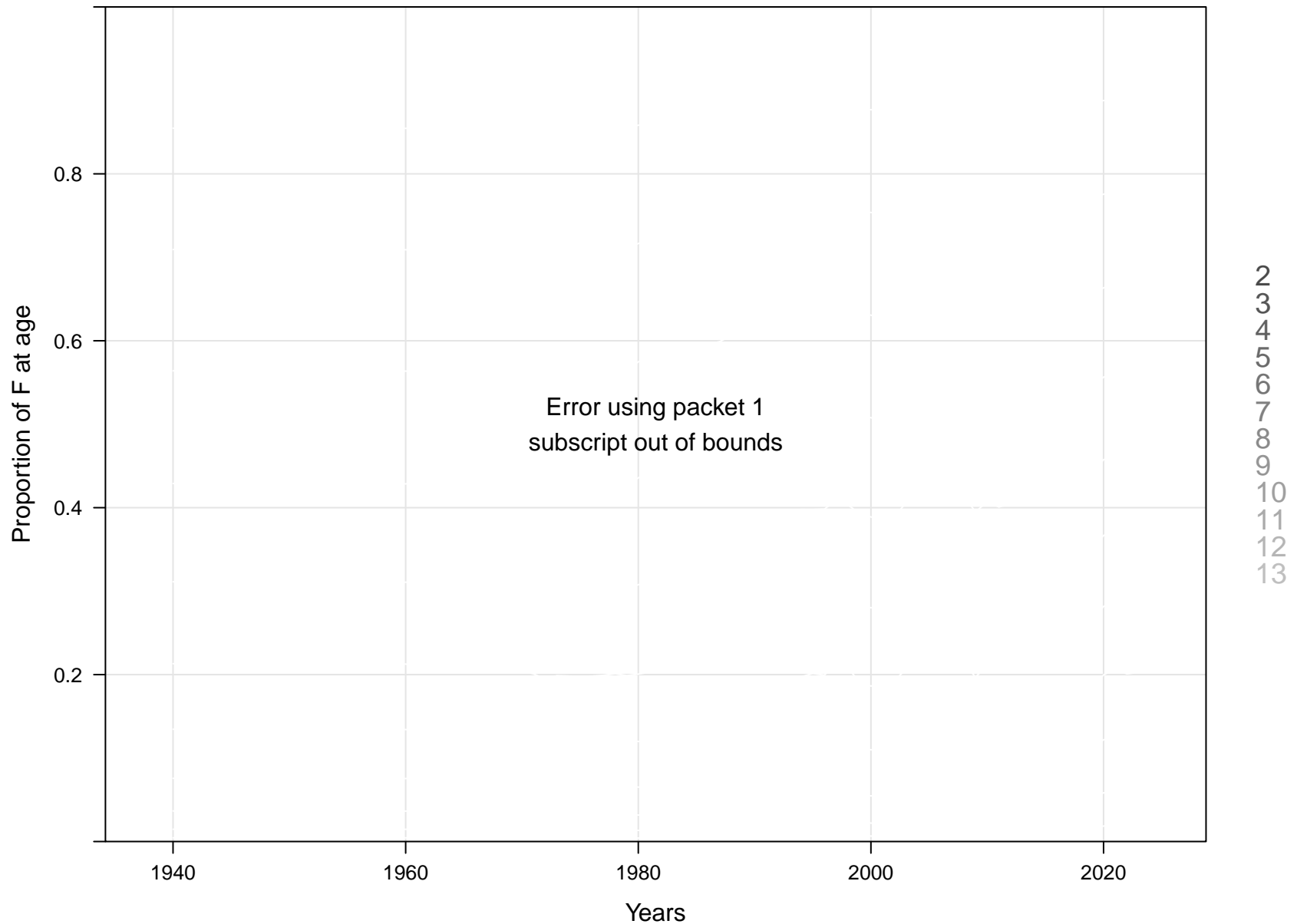
# Selectivity of the survey by Pentad



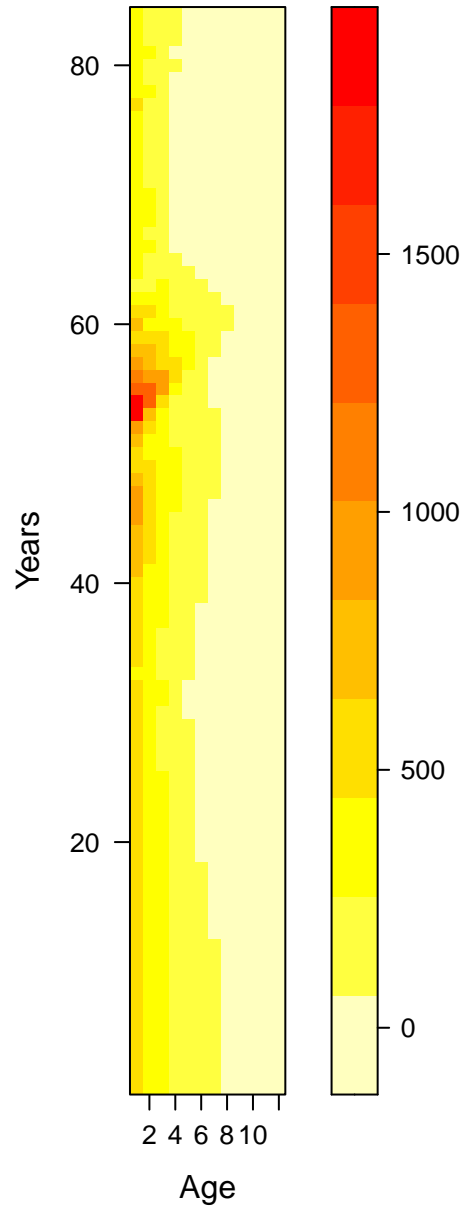
**F at age**



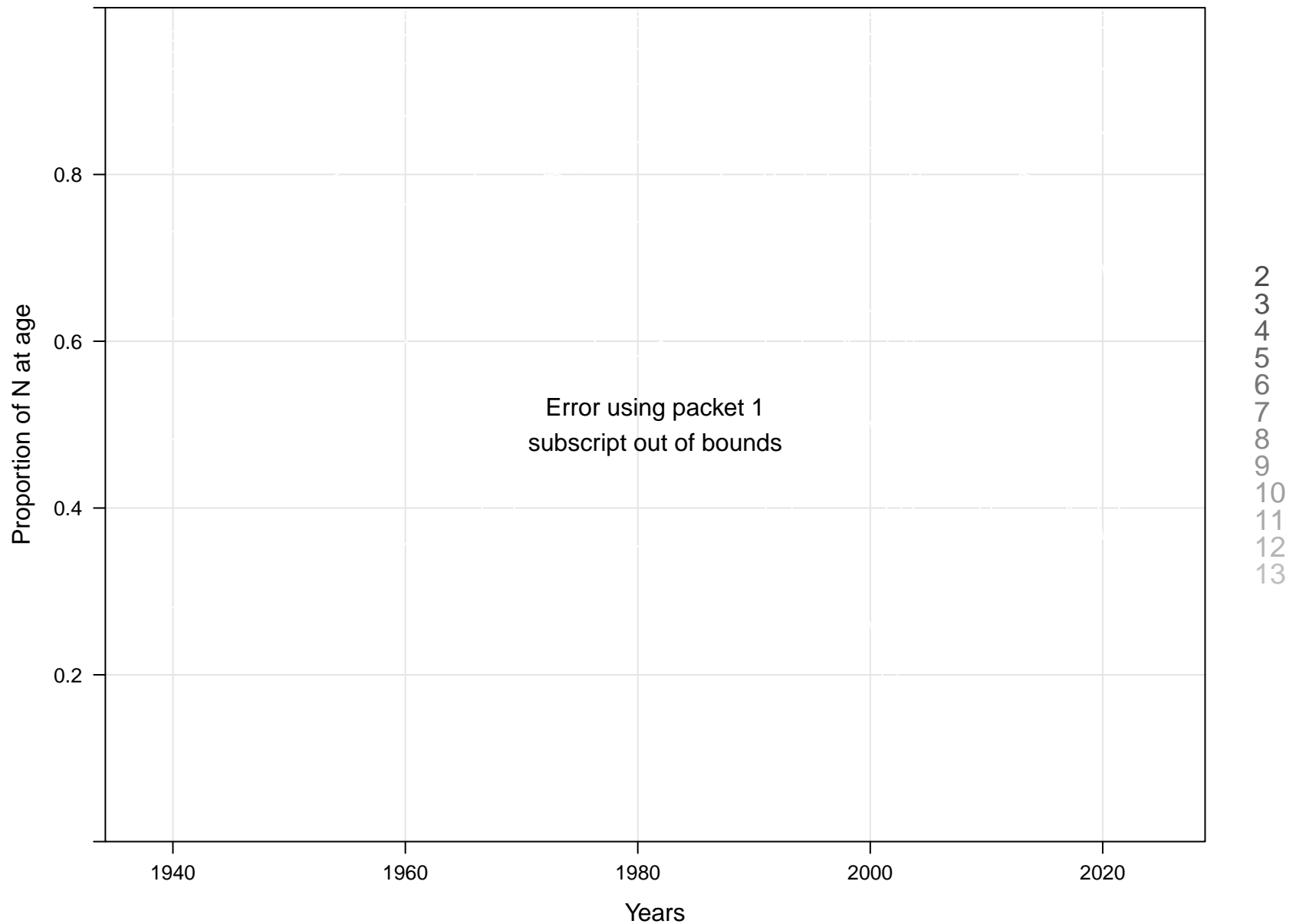
# F proportion at age



# N at age



# Proportion at age



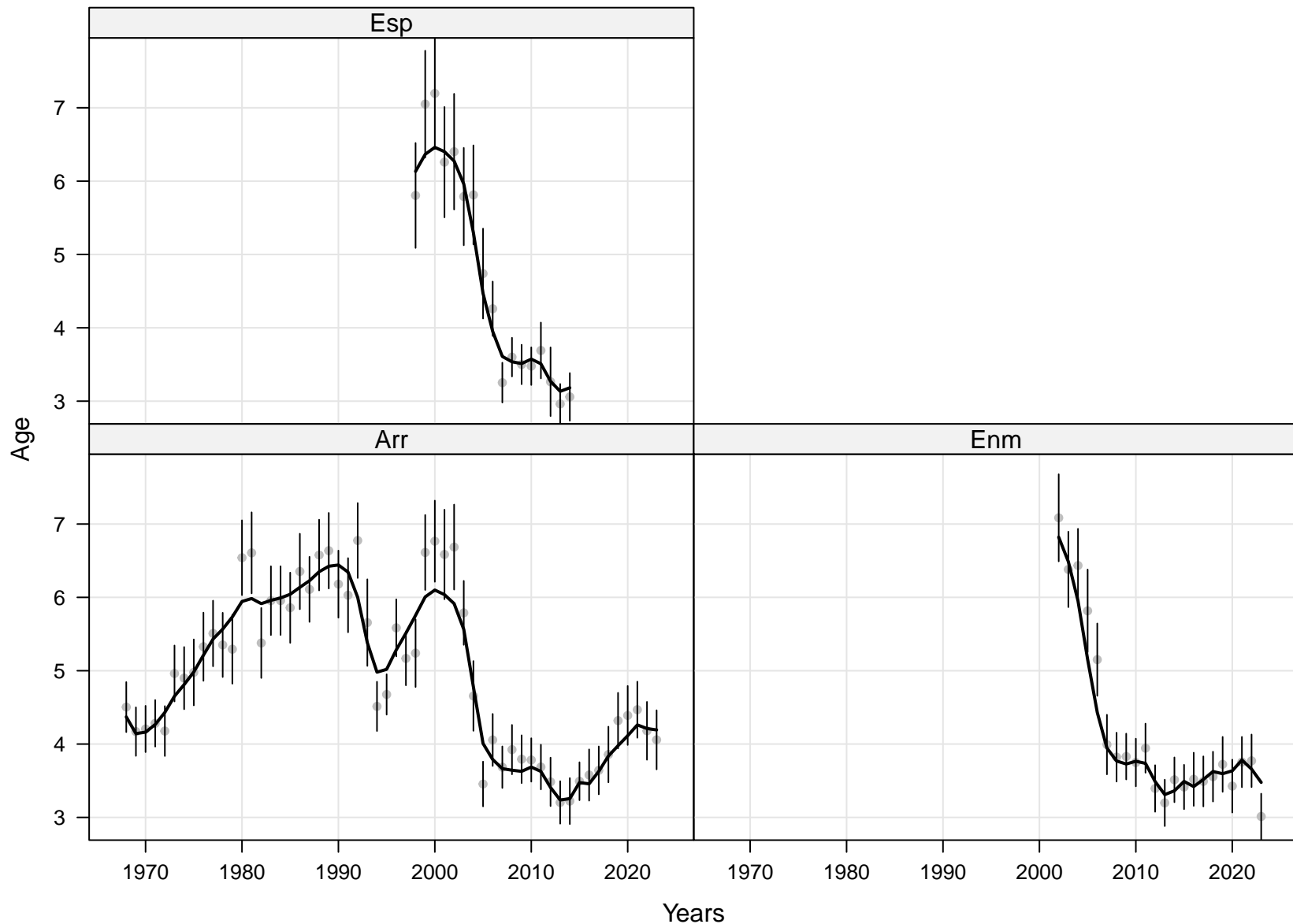


# Fishery mean age

Observed



Modelled

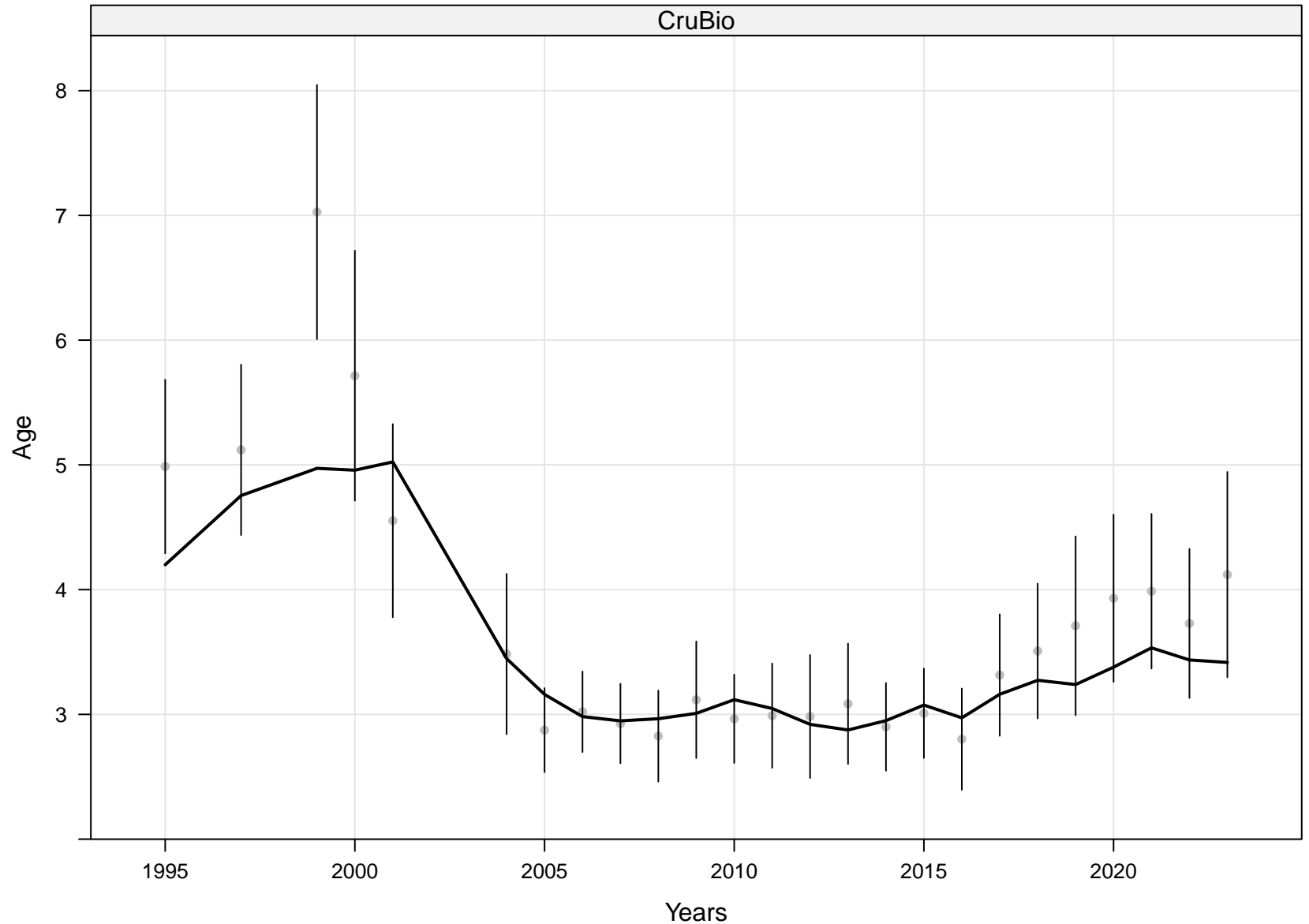


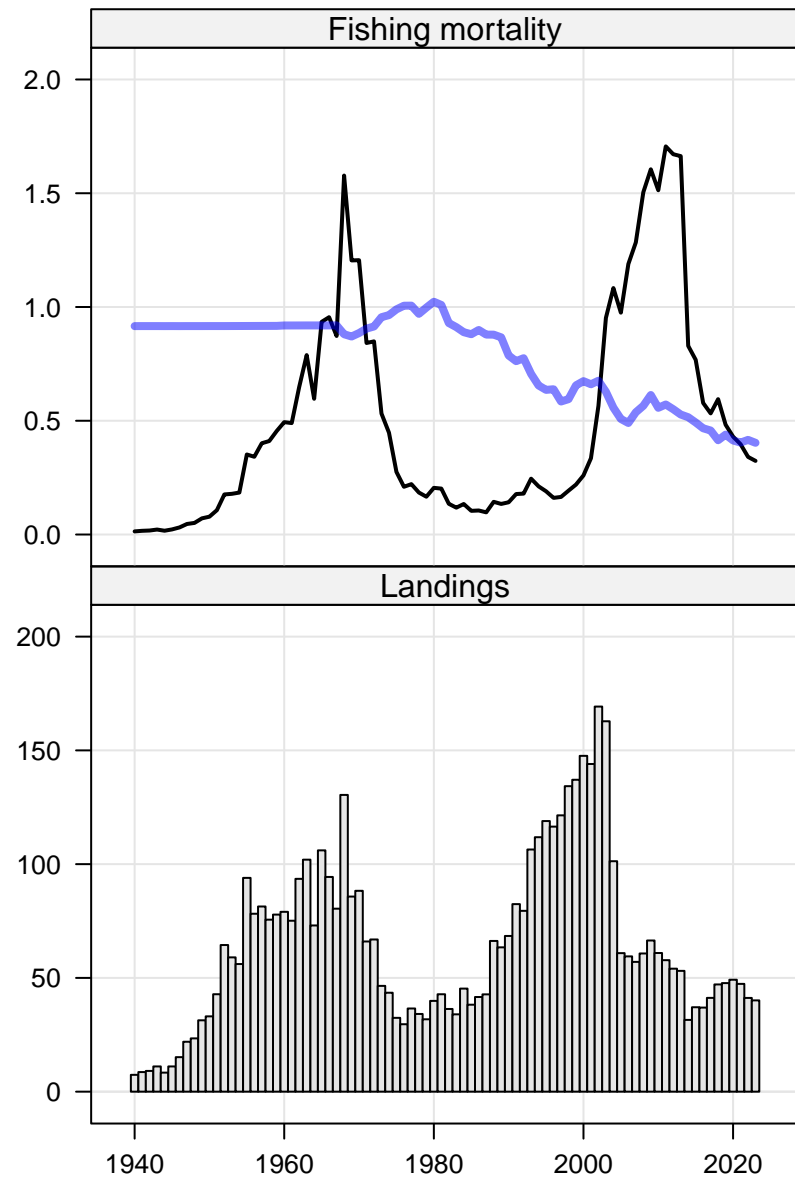
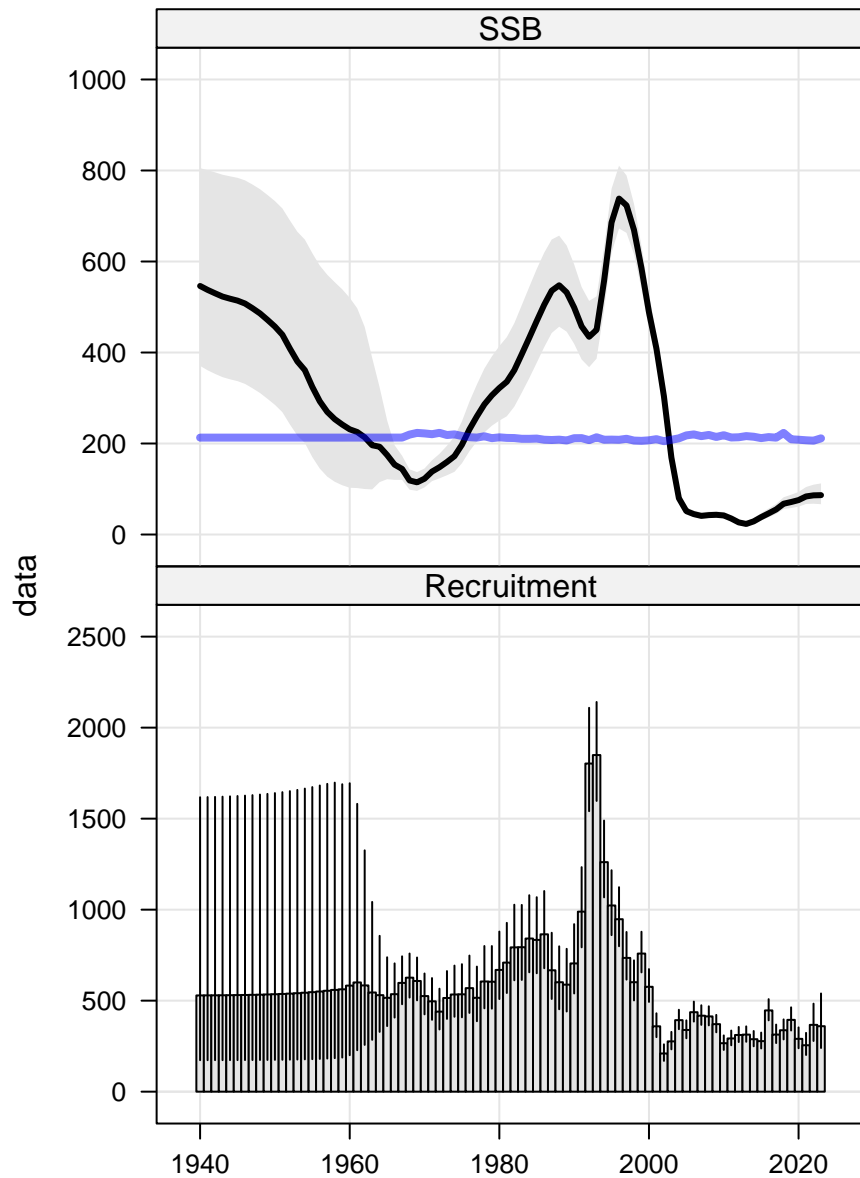
# Survey mean age

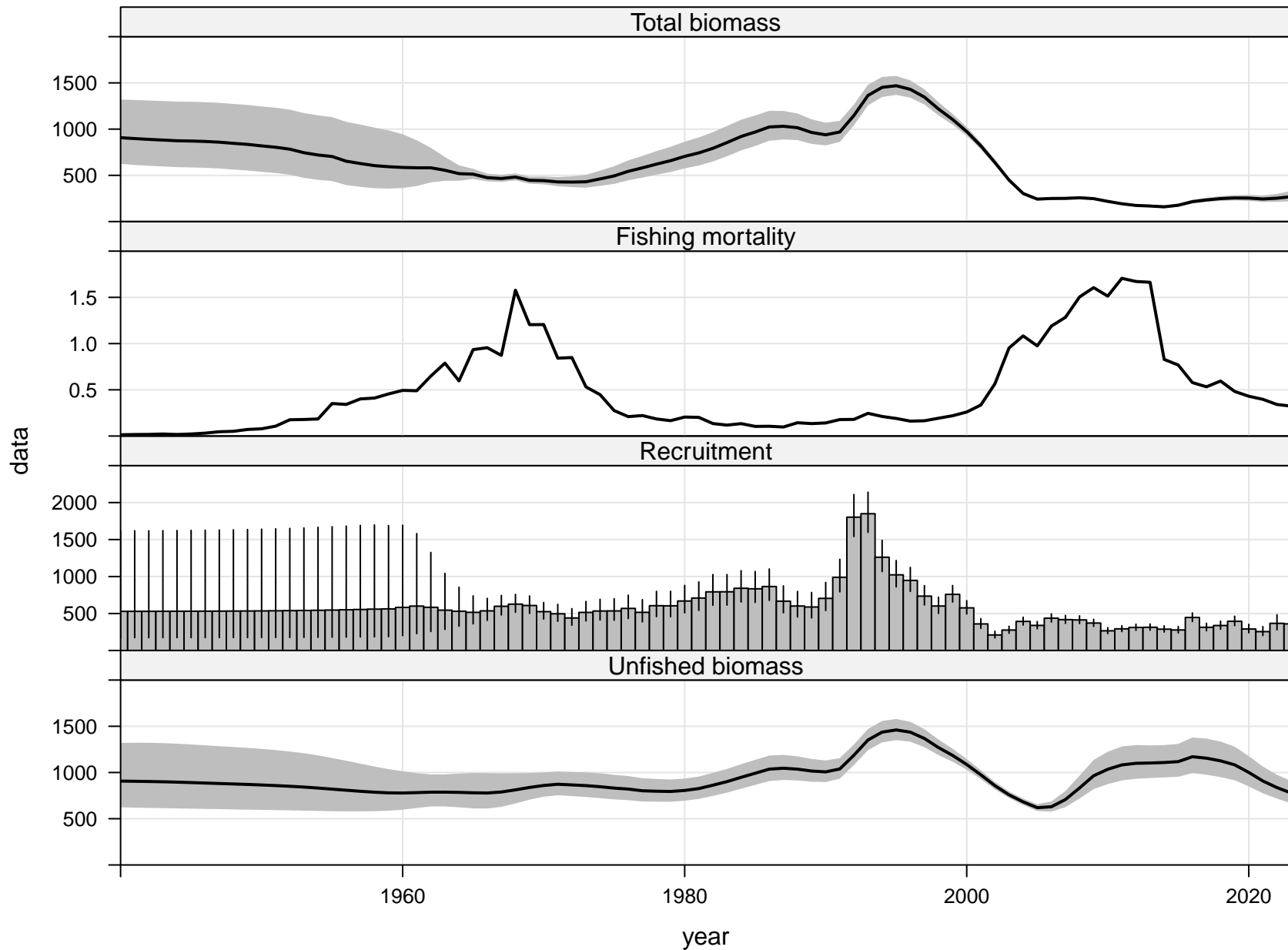
Observed



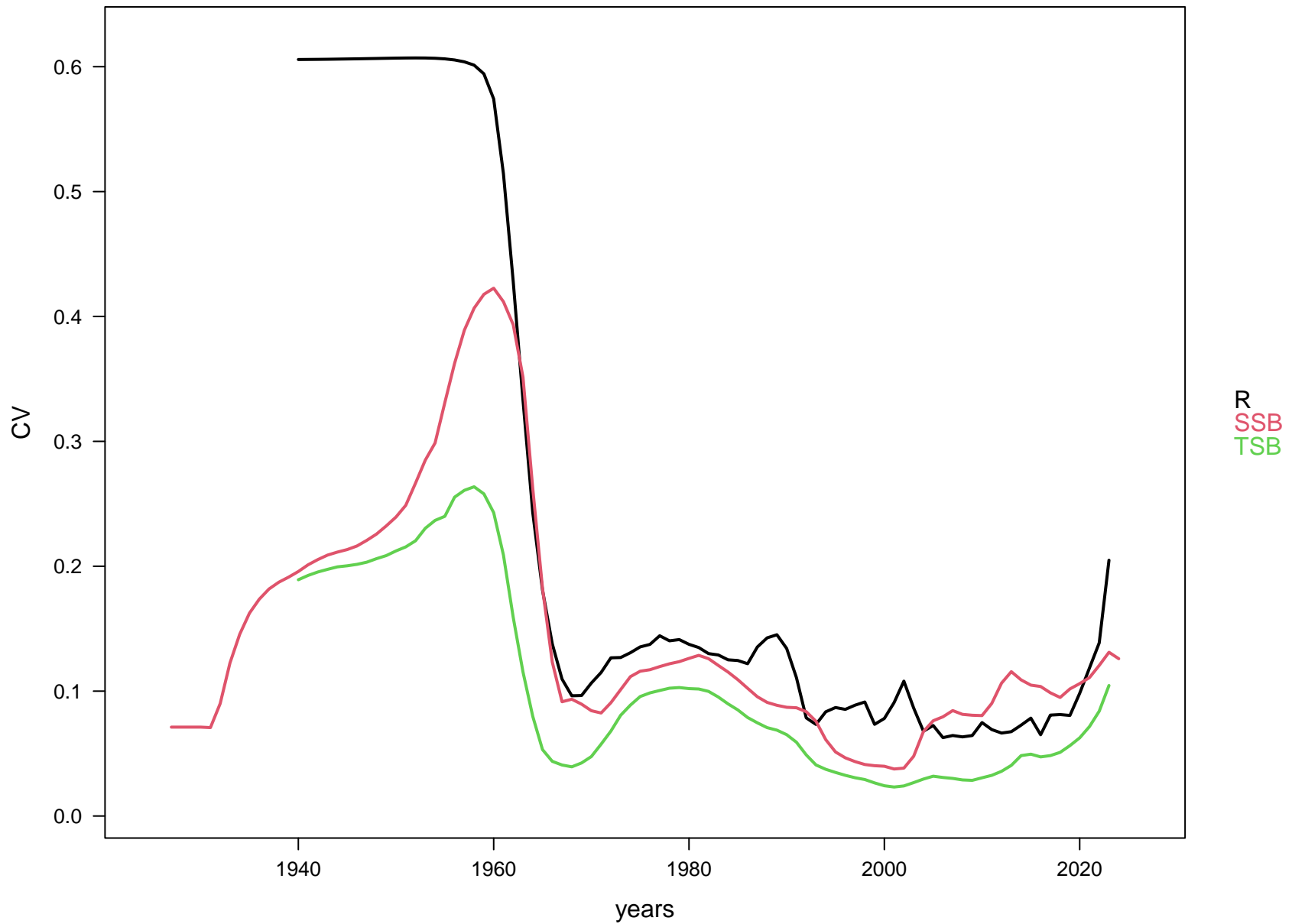
Modelled



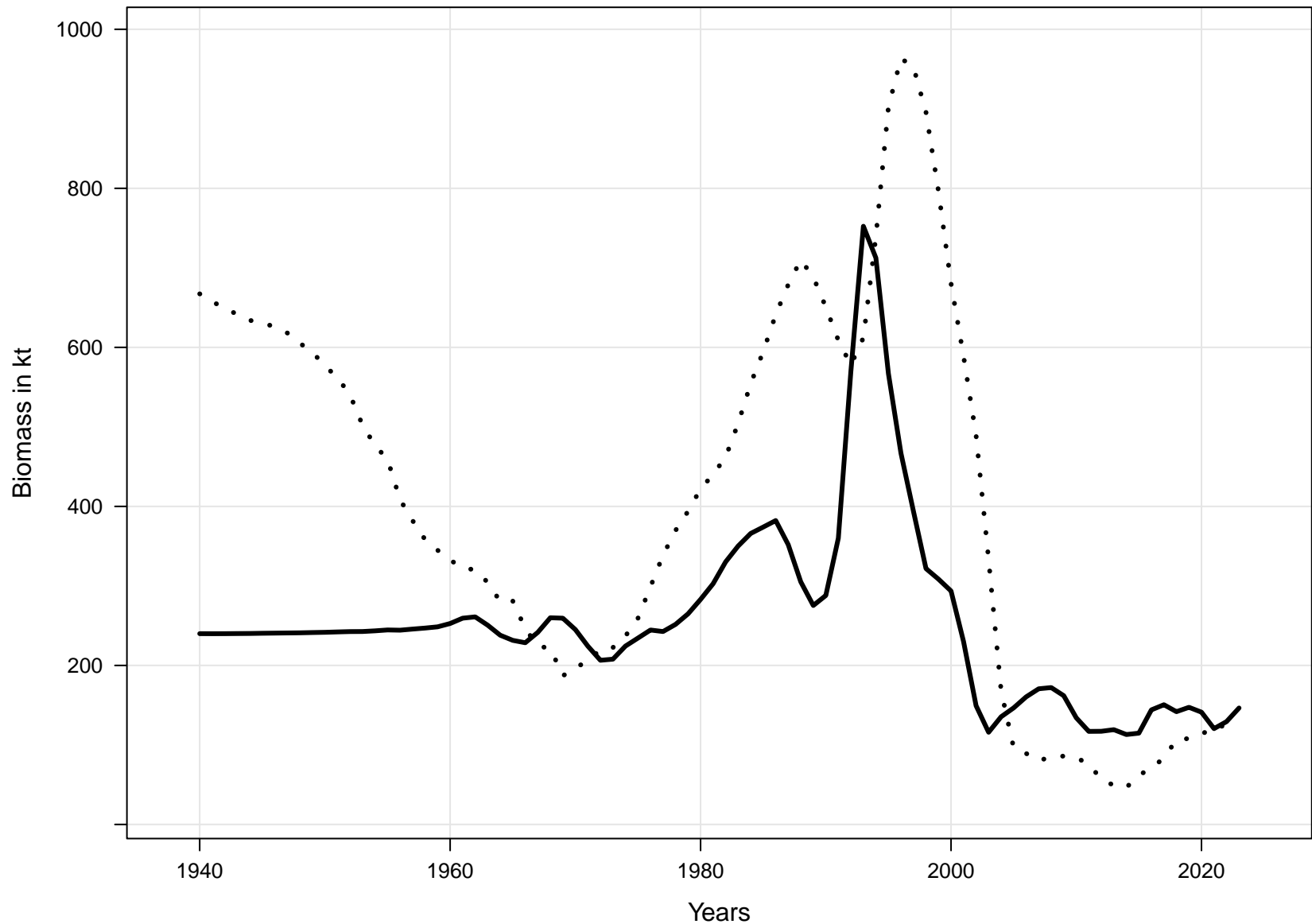




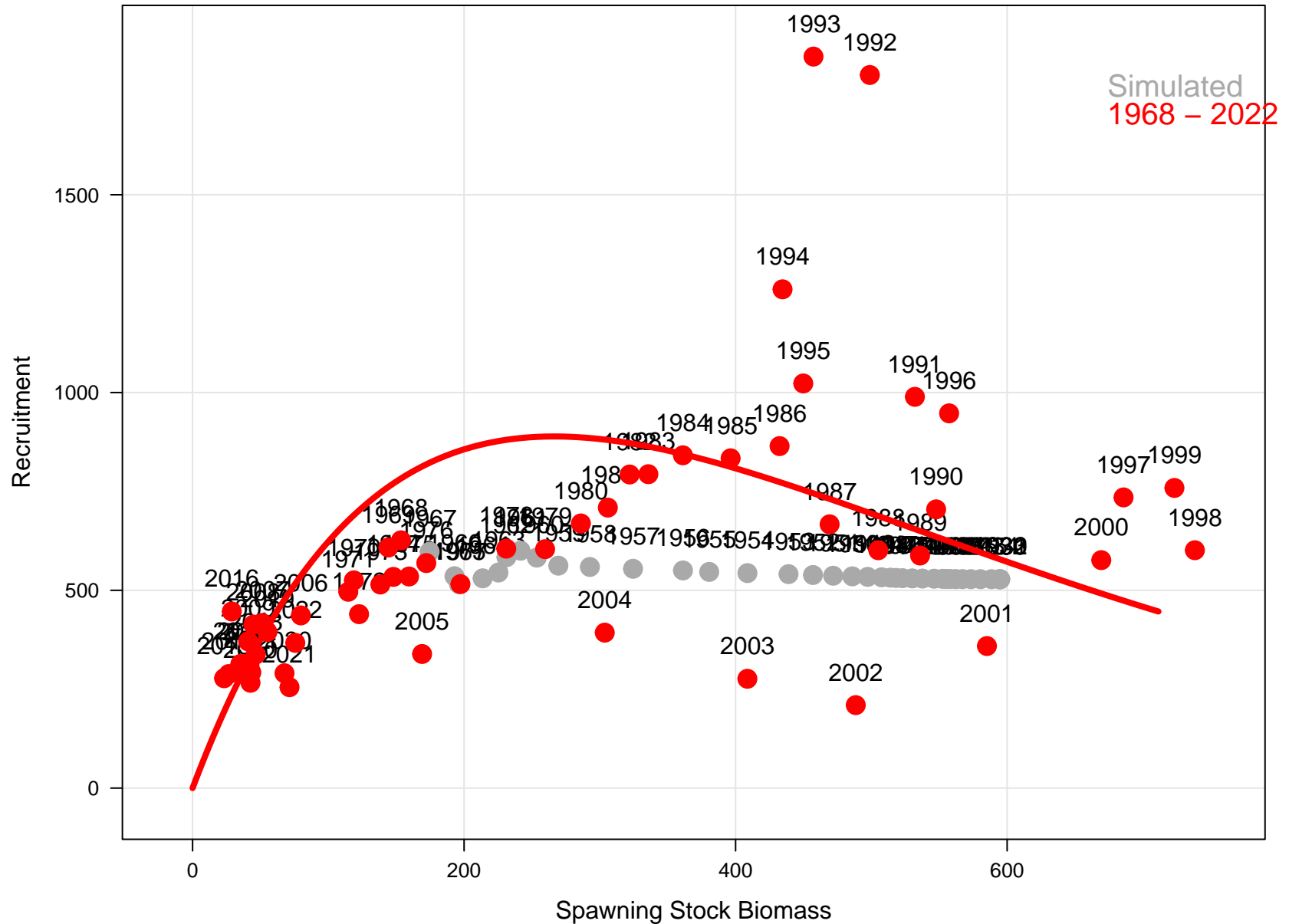
# Uncertainty of key parameters



Mature – Immature fish  
Mature ..... Immature —

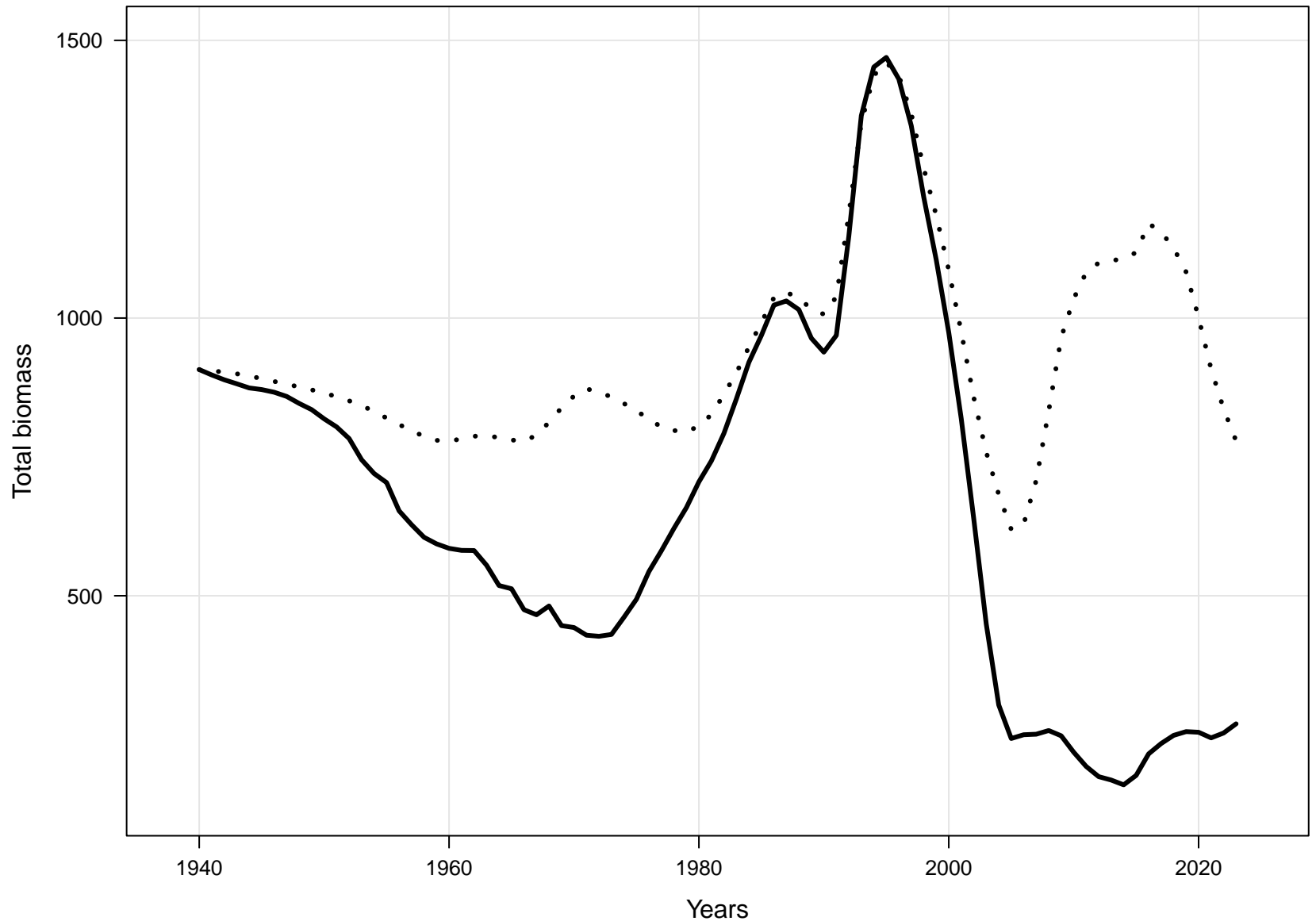


# Stock Recruitment



# Comparing fished with unfished biomass

Fished — Unfished .....





## SSB prediction

F2023 SQ

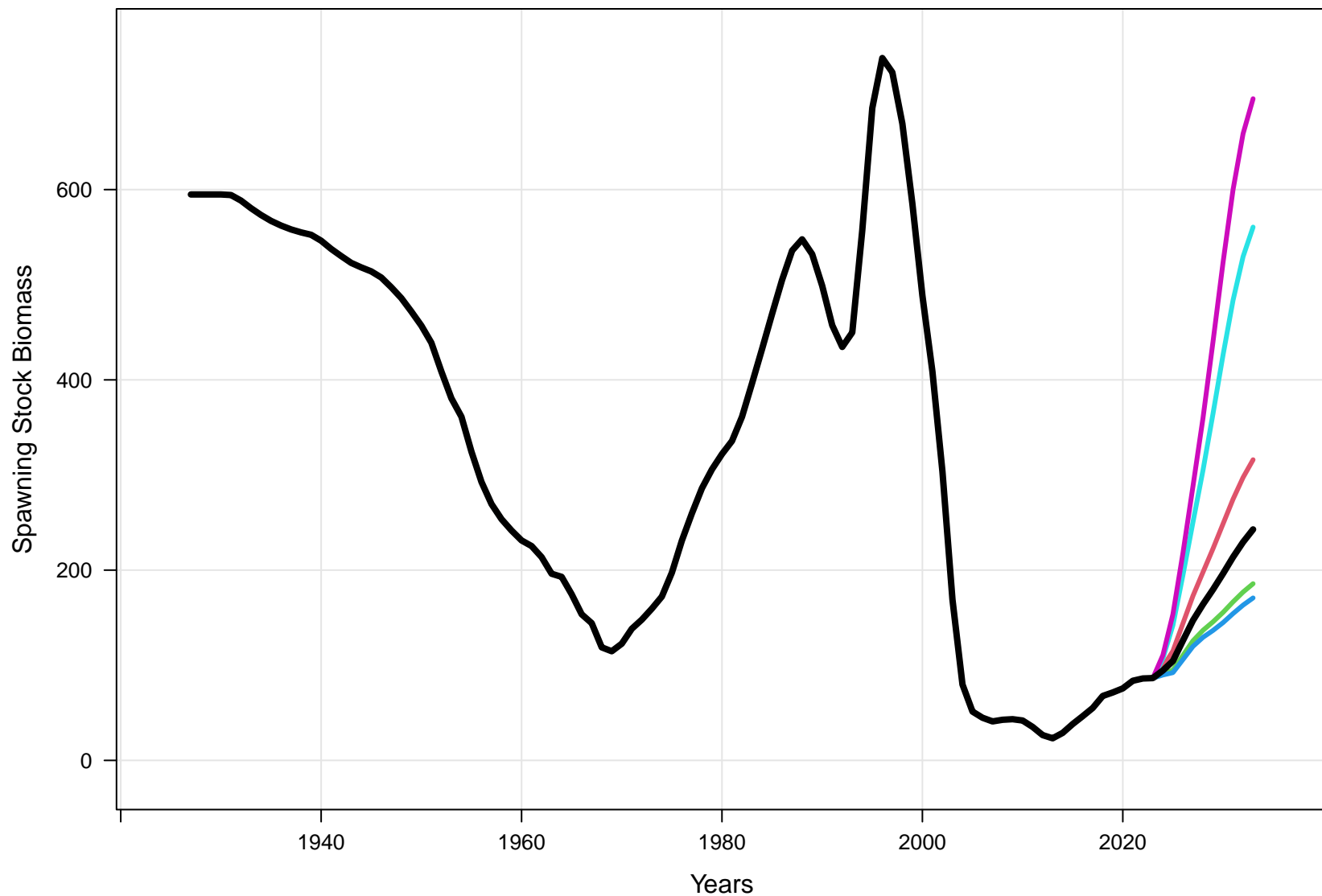
F2023 0.75x

F2023 1.25x

FMSY

TAC2023

F2023 0x



# Catch prediction

F2023 SQ



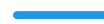
F2023 0.75x



F2023 1.25x



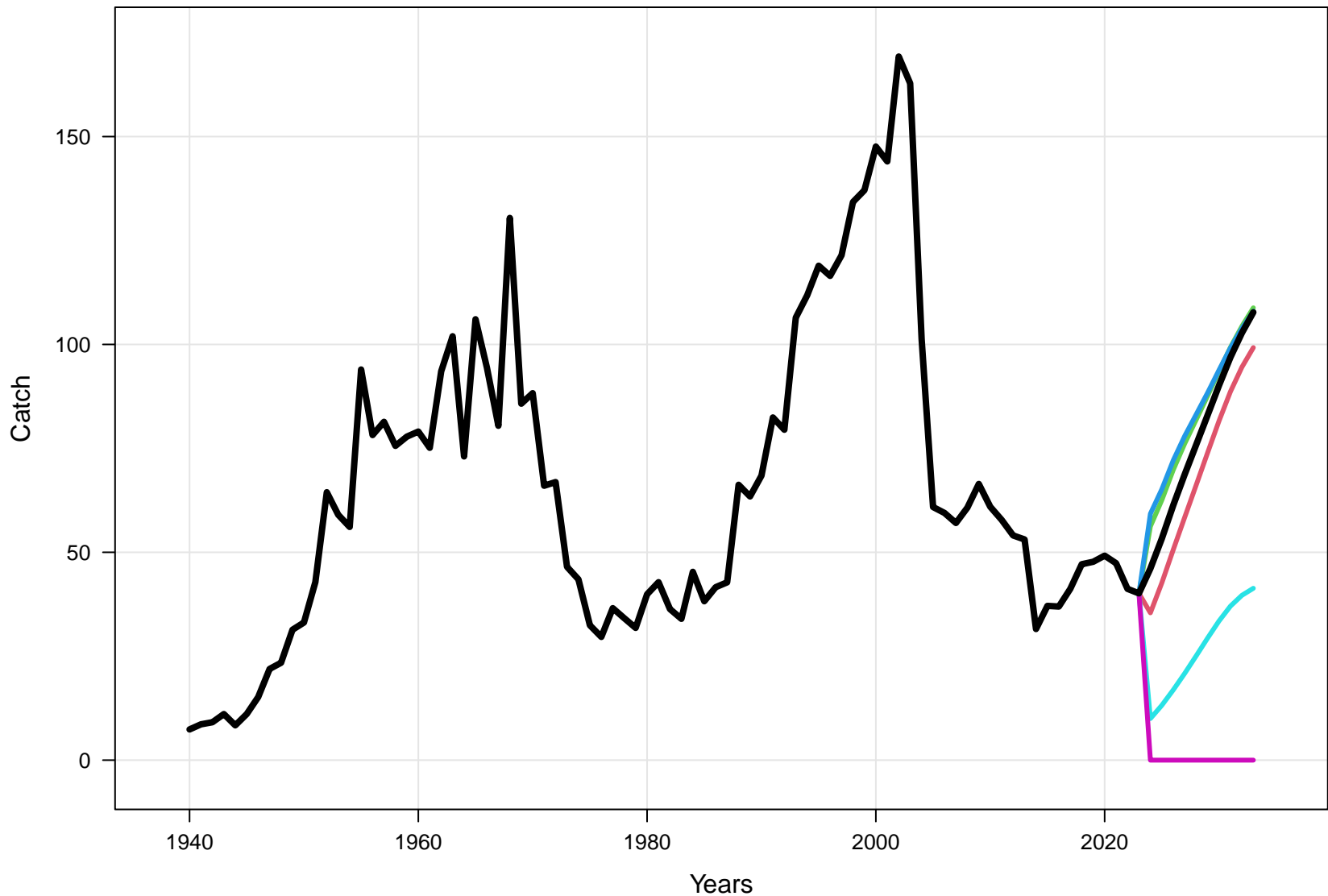
FMSY



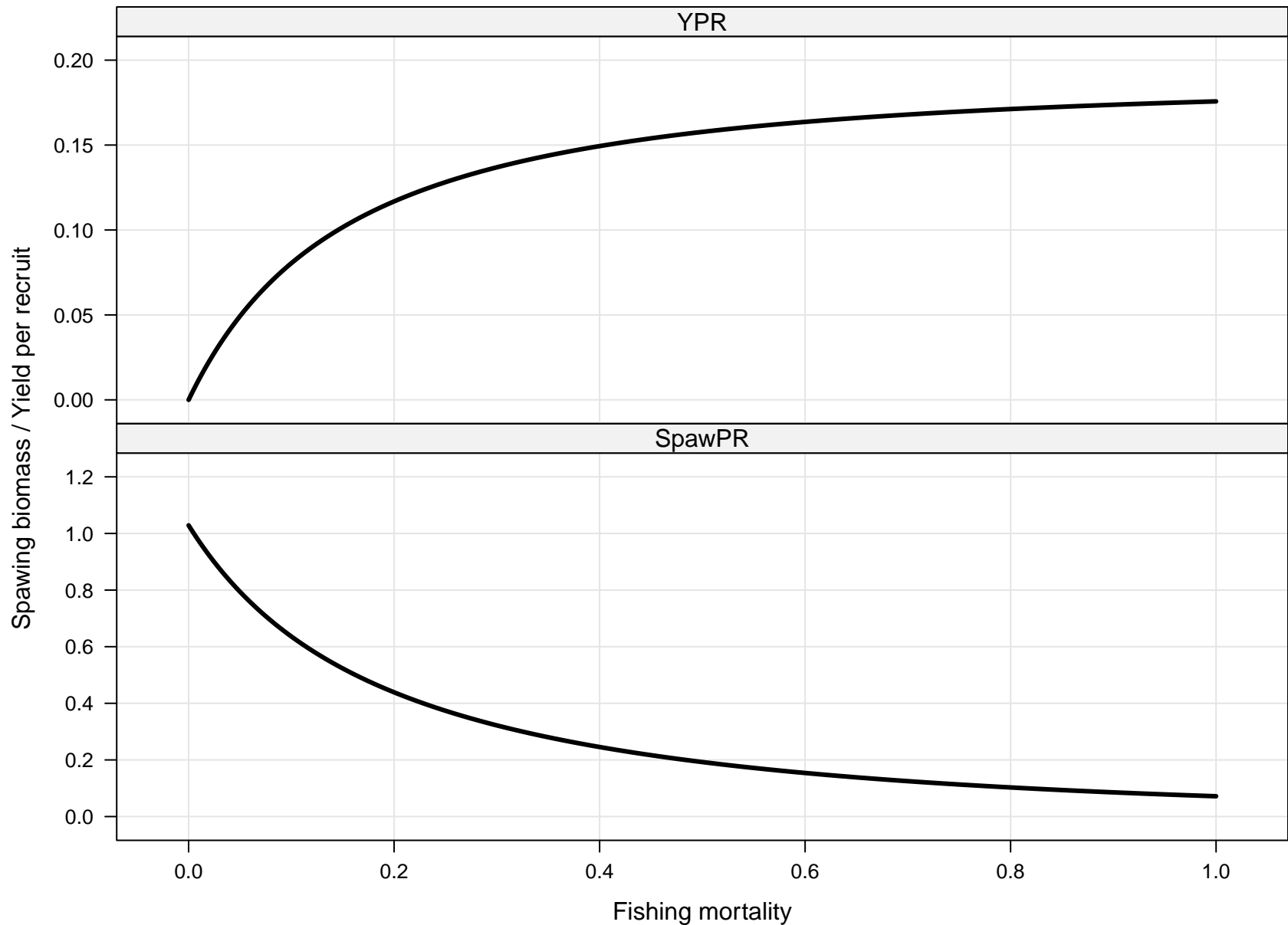
TAC2023



F2023 0x



# Yield and spawning stock biomass per recruit



Kobe plot

