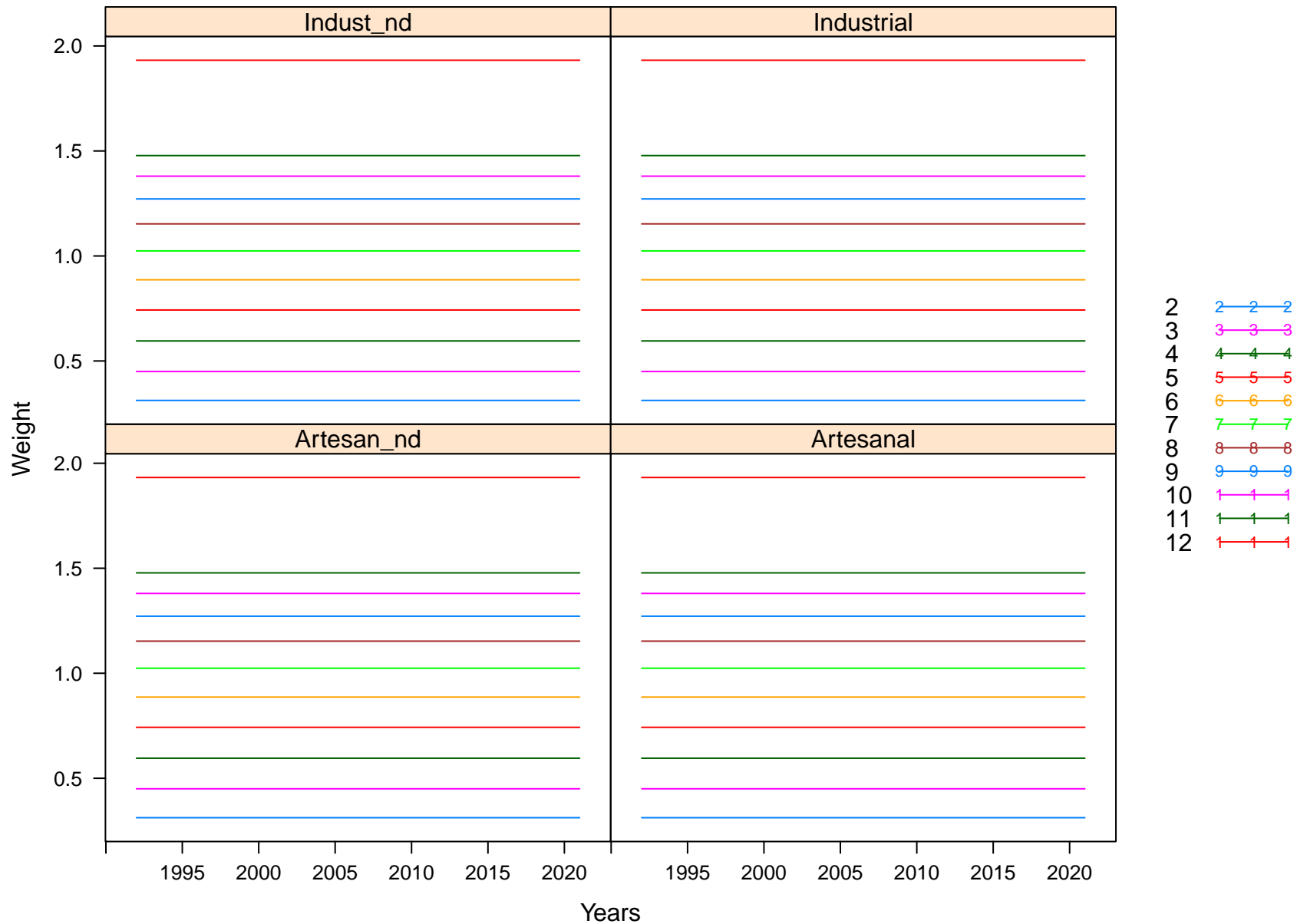
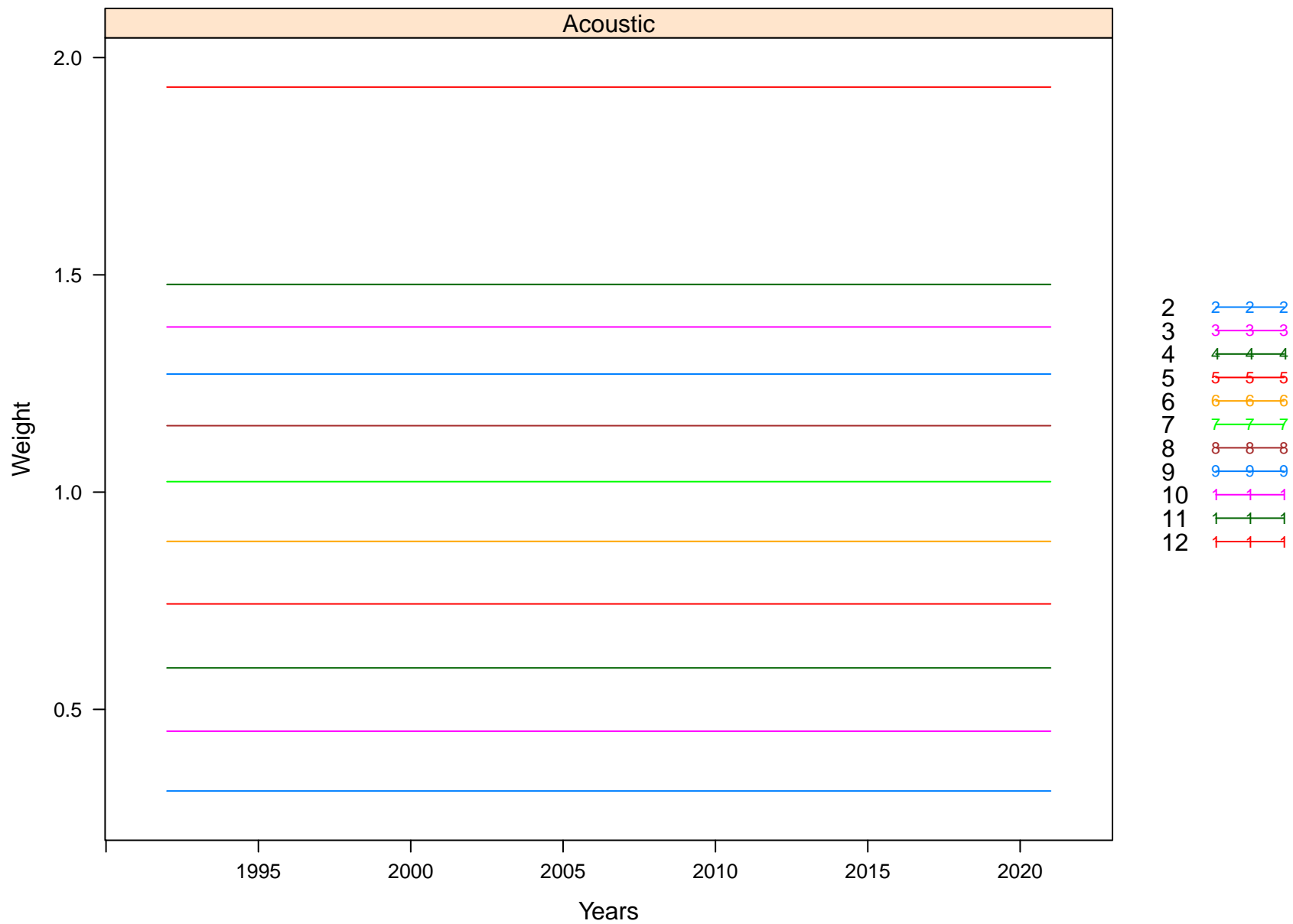


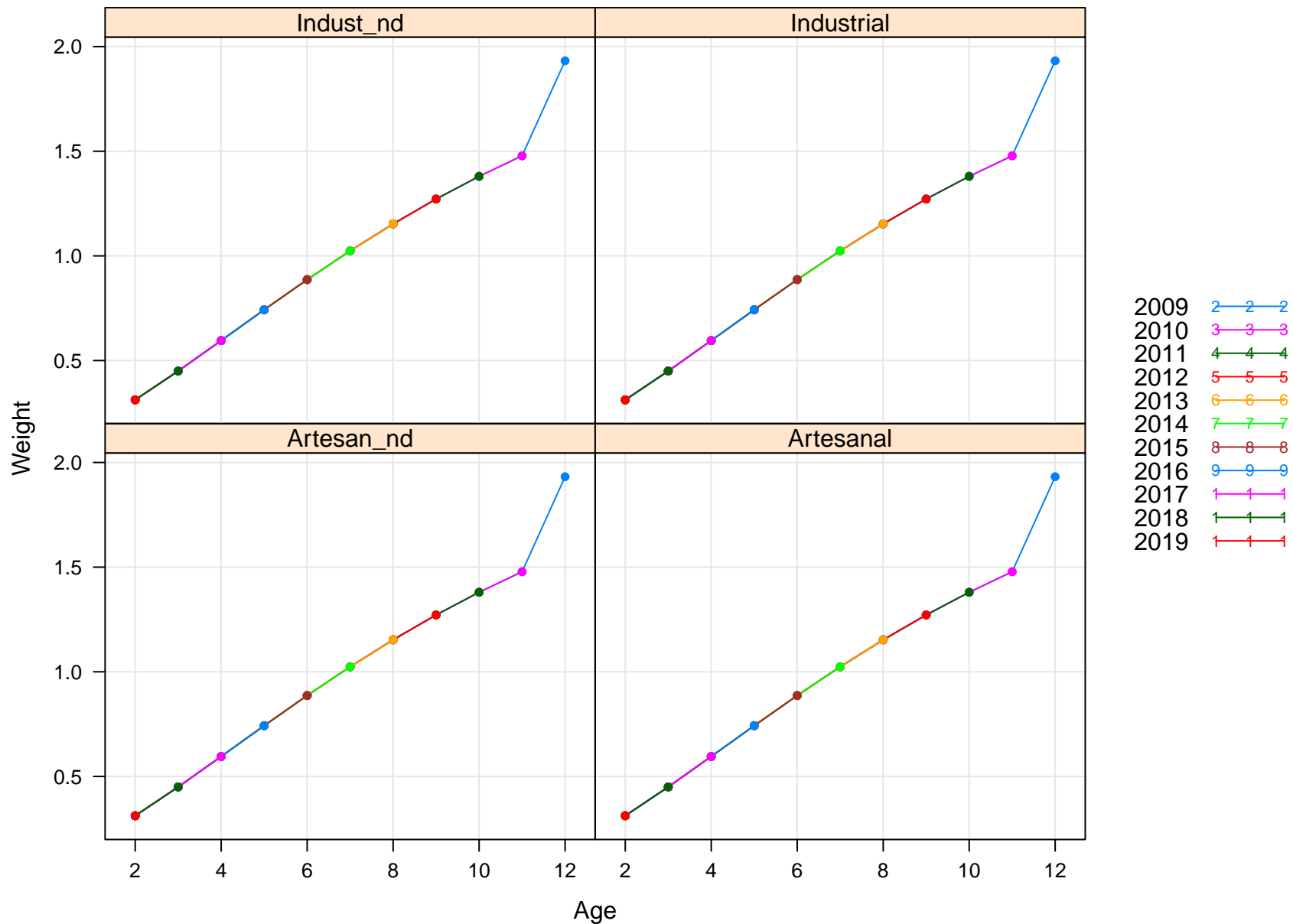
Weight at age in the fishery



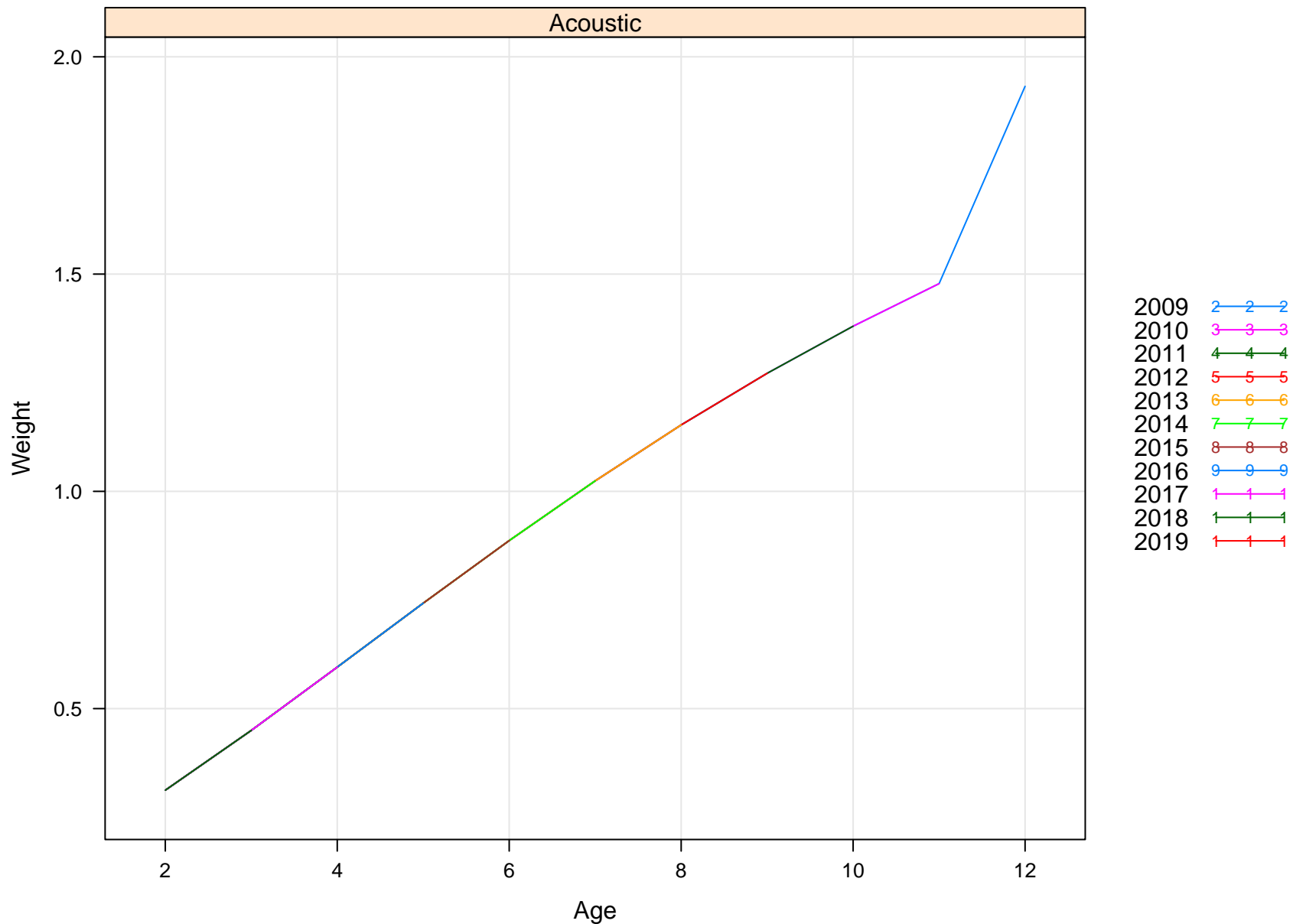
Weight at age in the survey



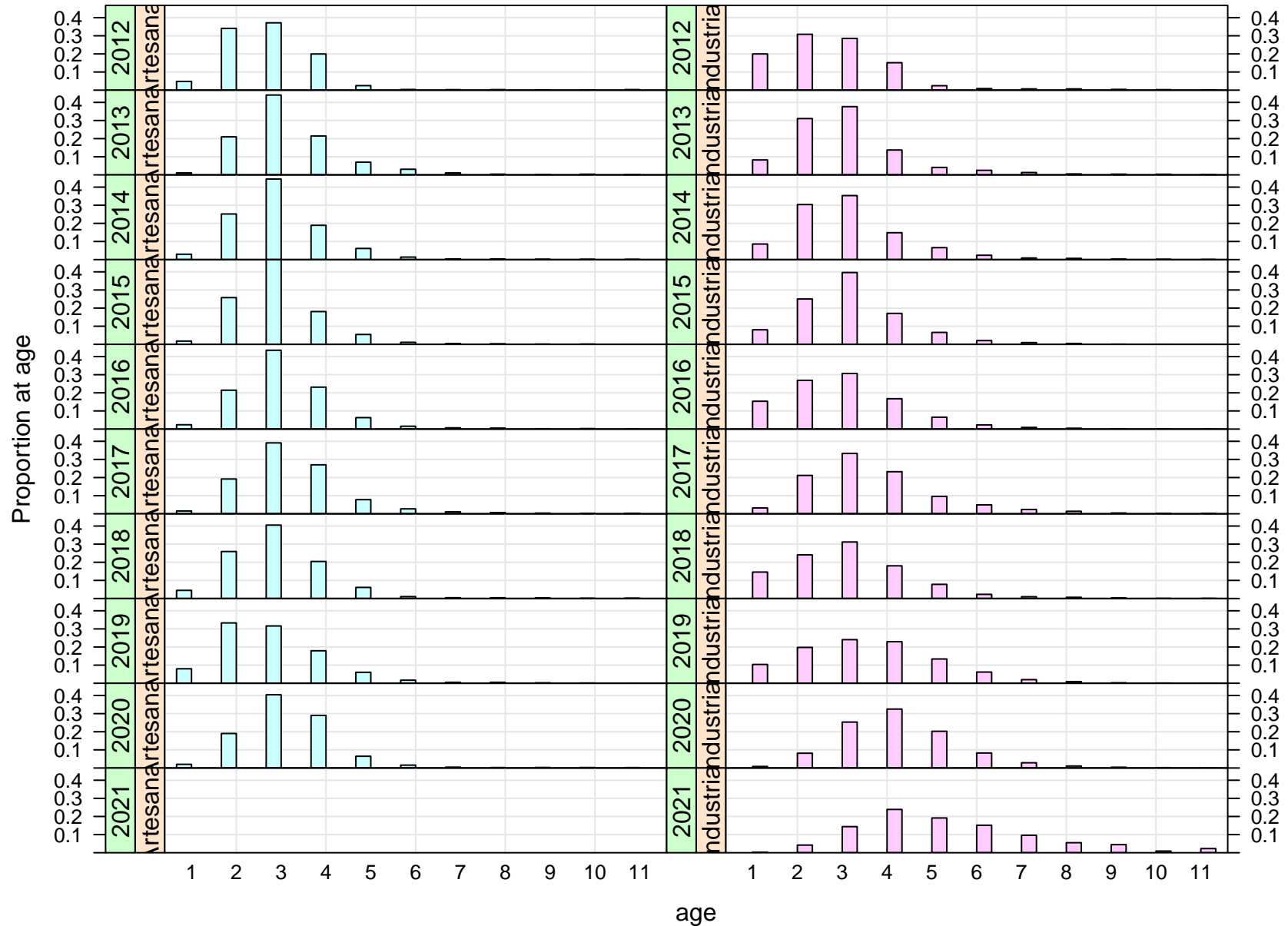
Weight at age by cohort in the fleet



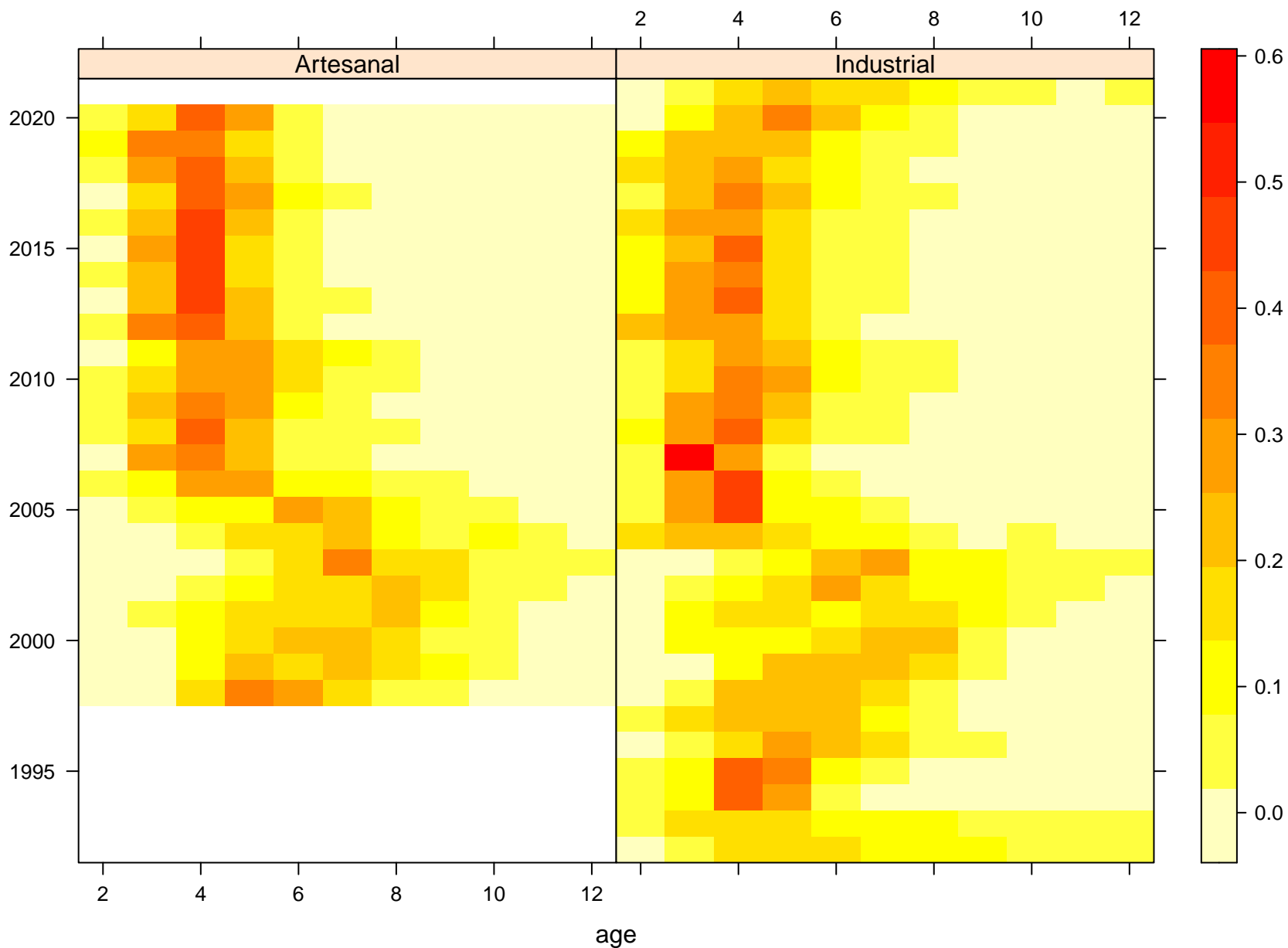
Weight at age by cohort in the survey



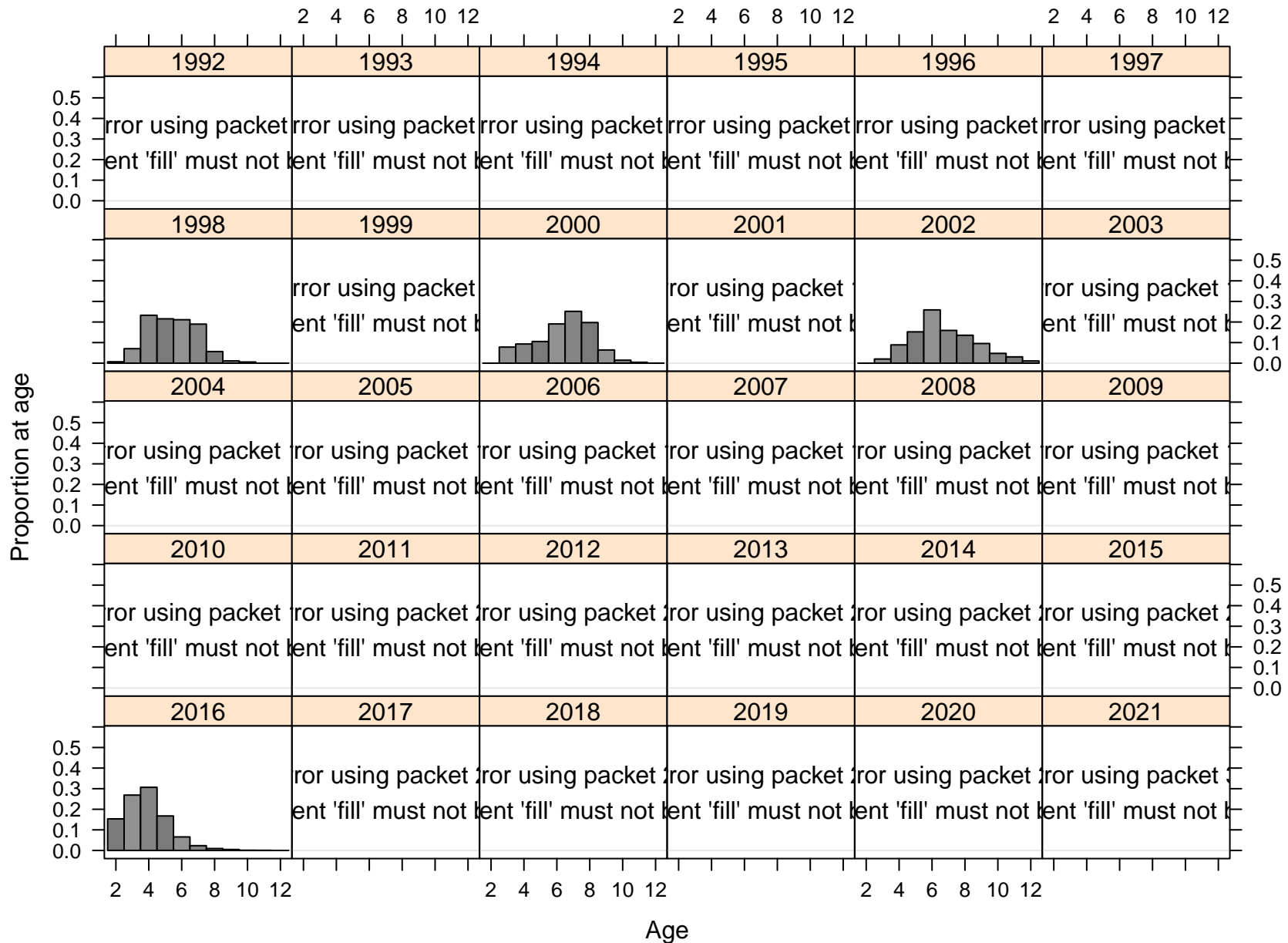
Age composition in fleets



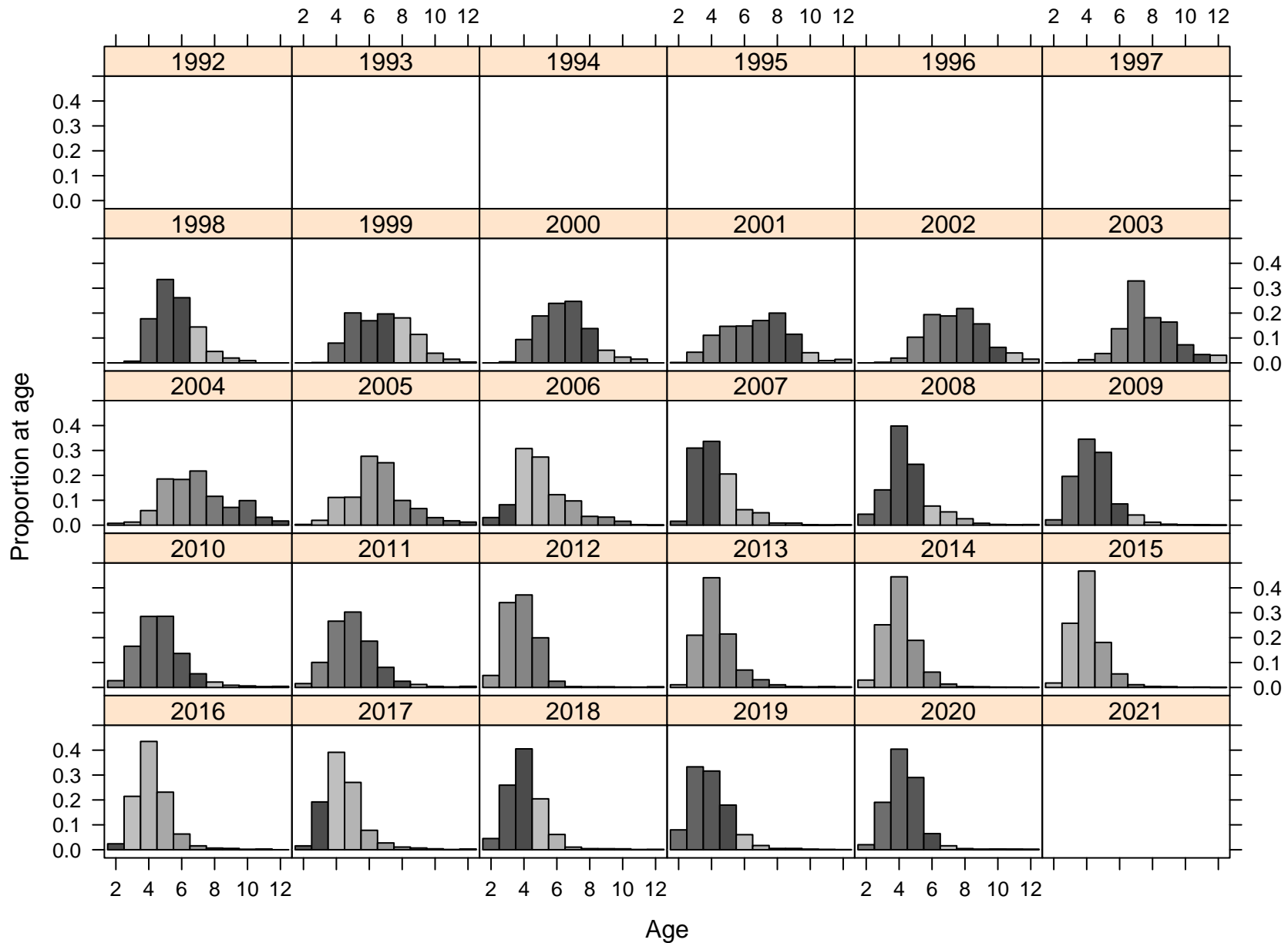
Age composition in fleets



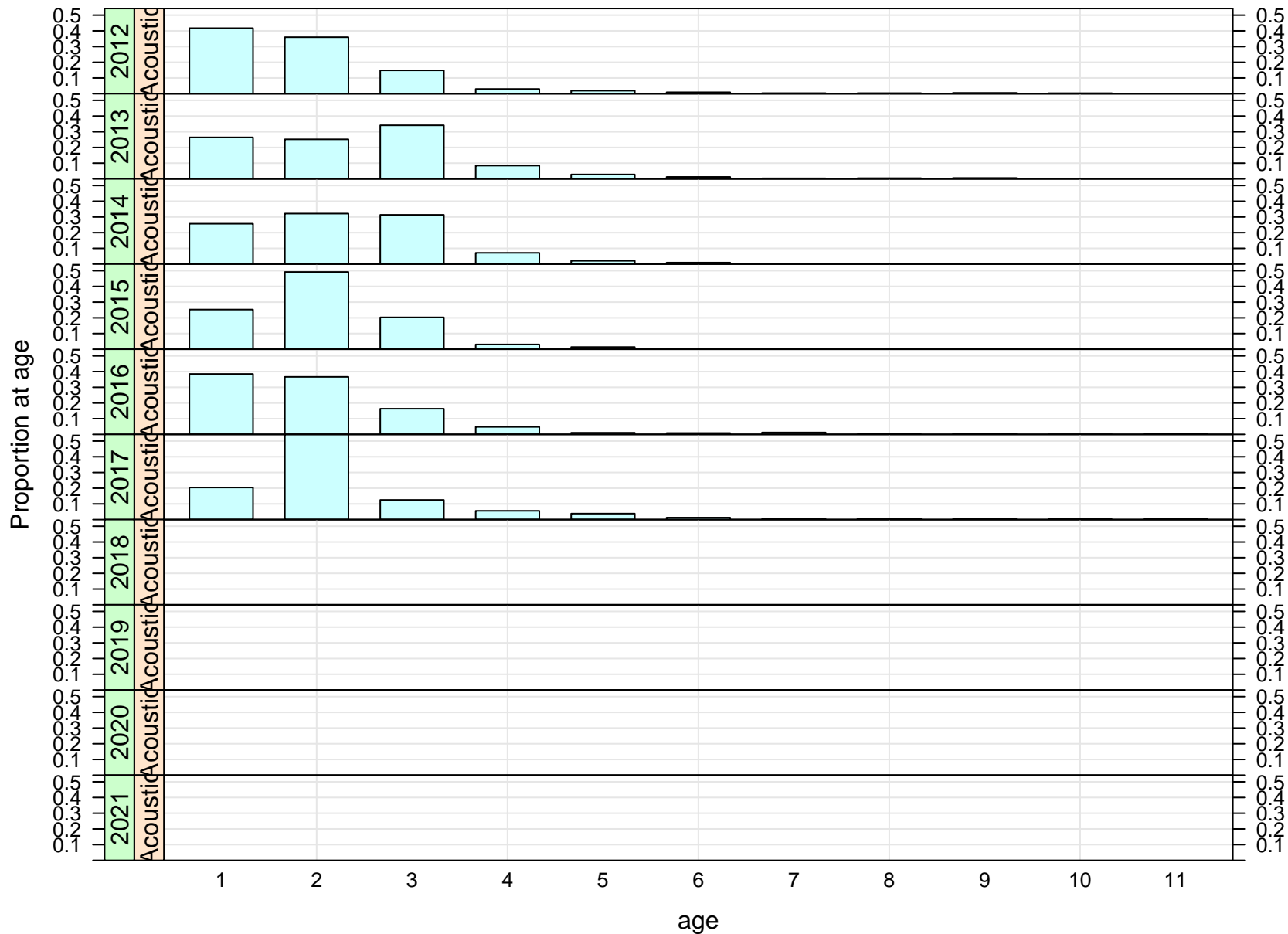
Age composition in fleets Industrial



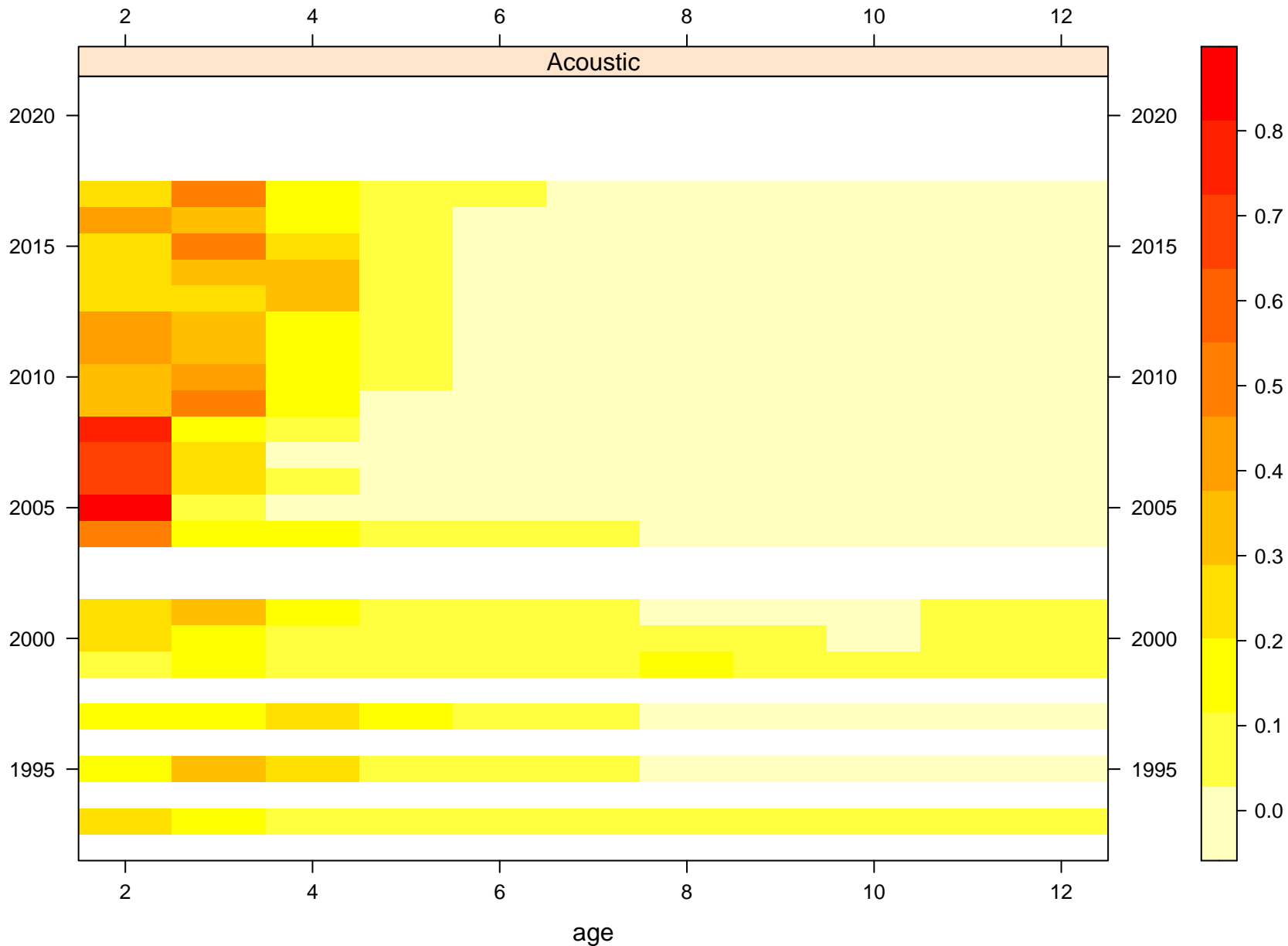
Age composition in fleets Artesanal



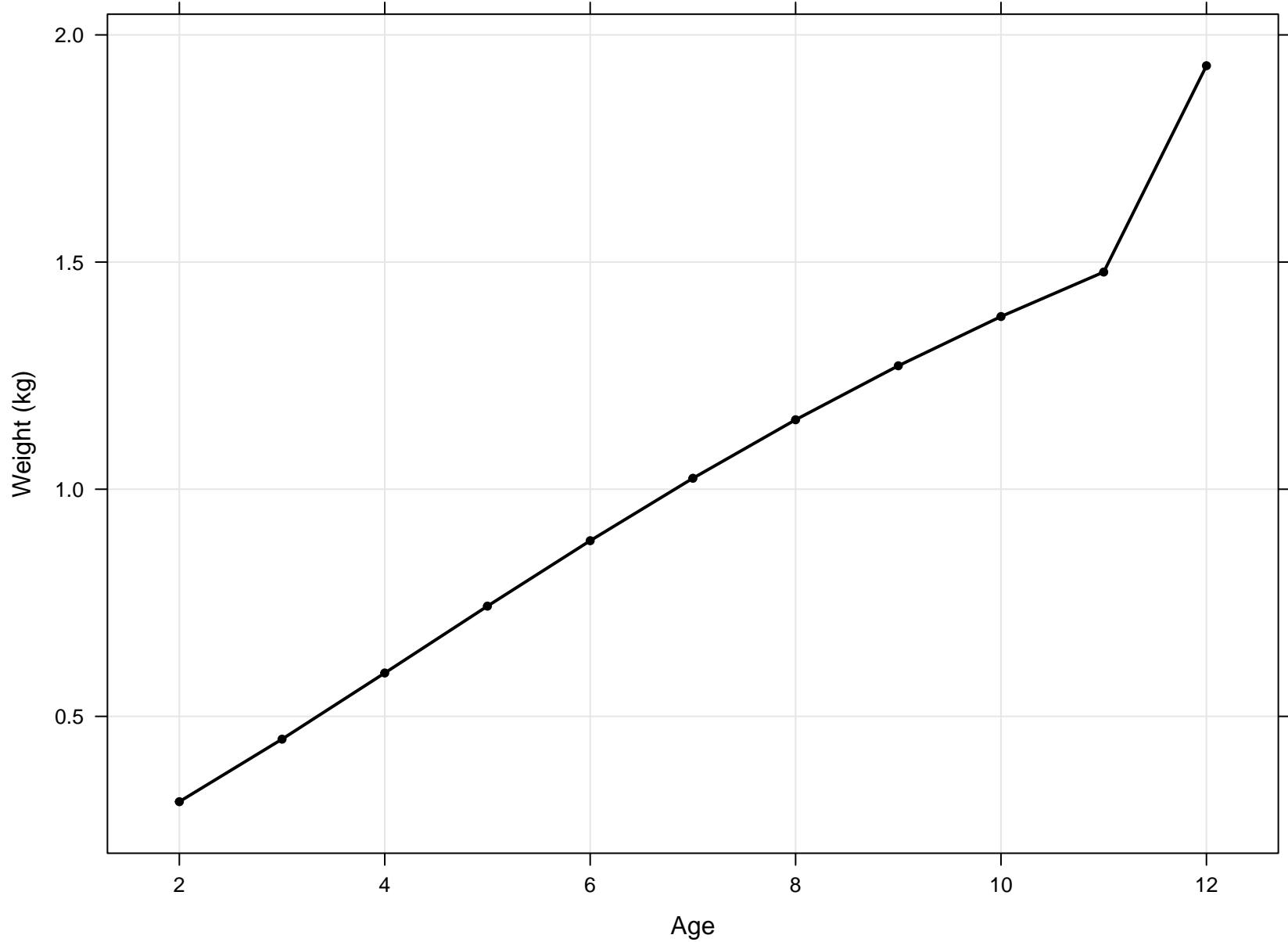
Age composition in surveys



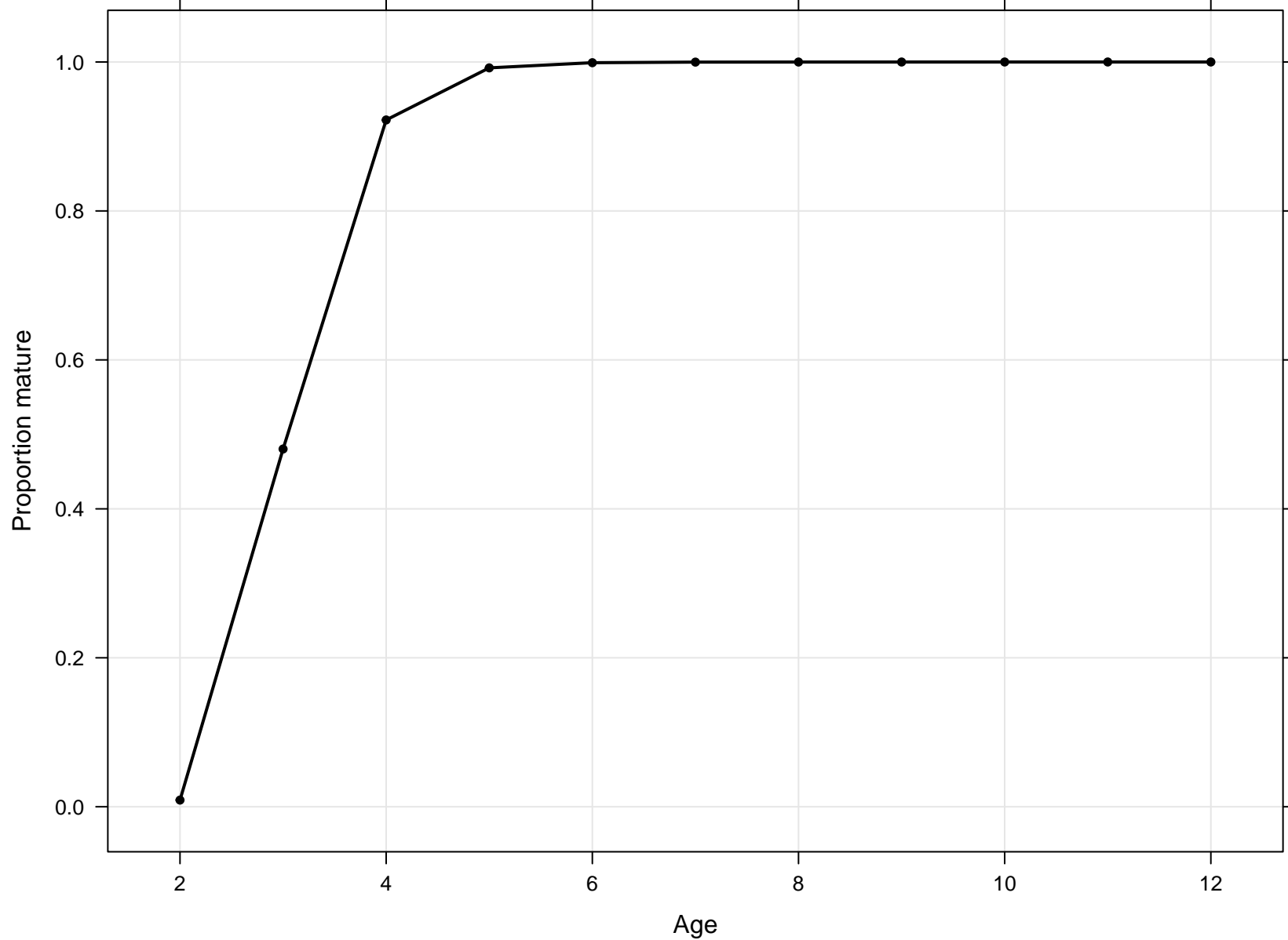
Age composition in surveys



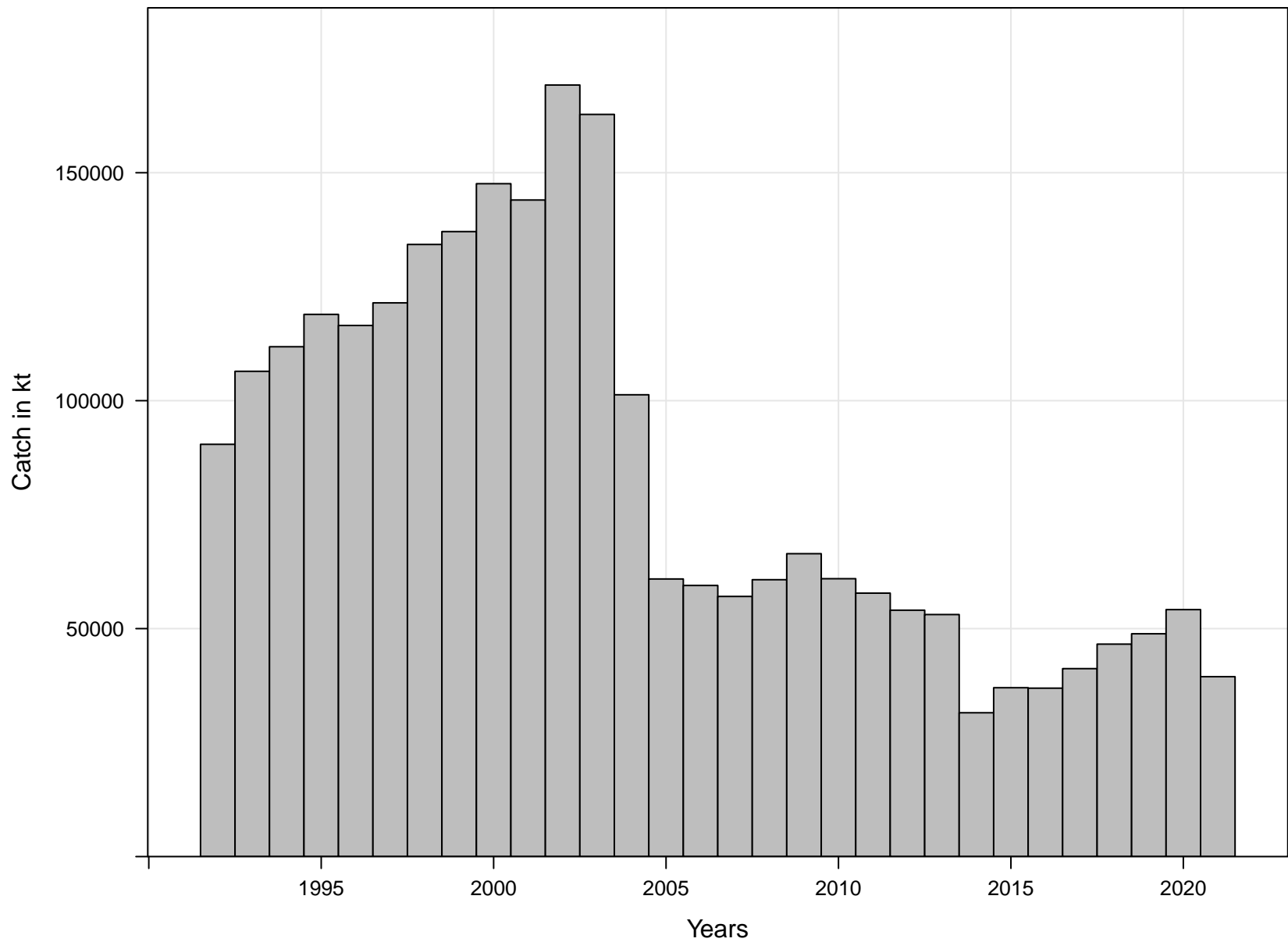
Weight in the stock



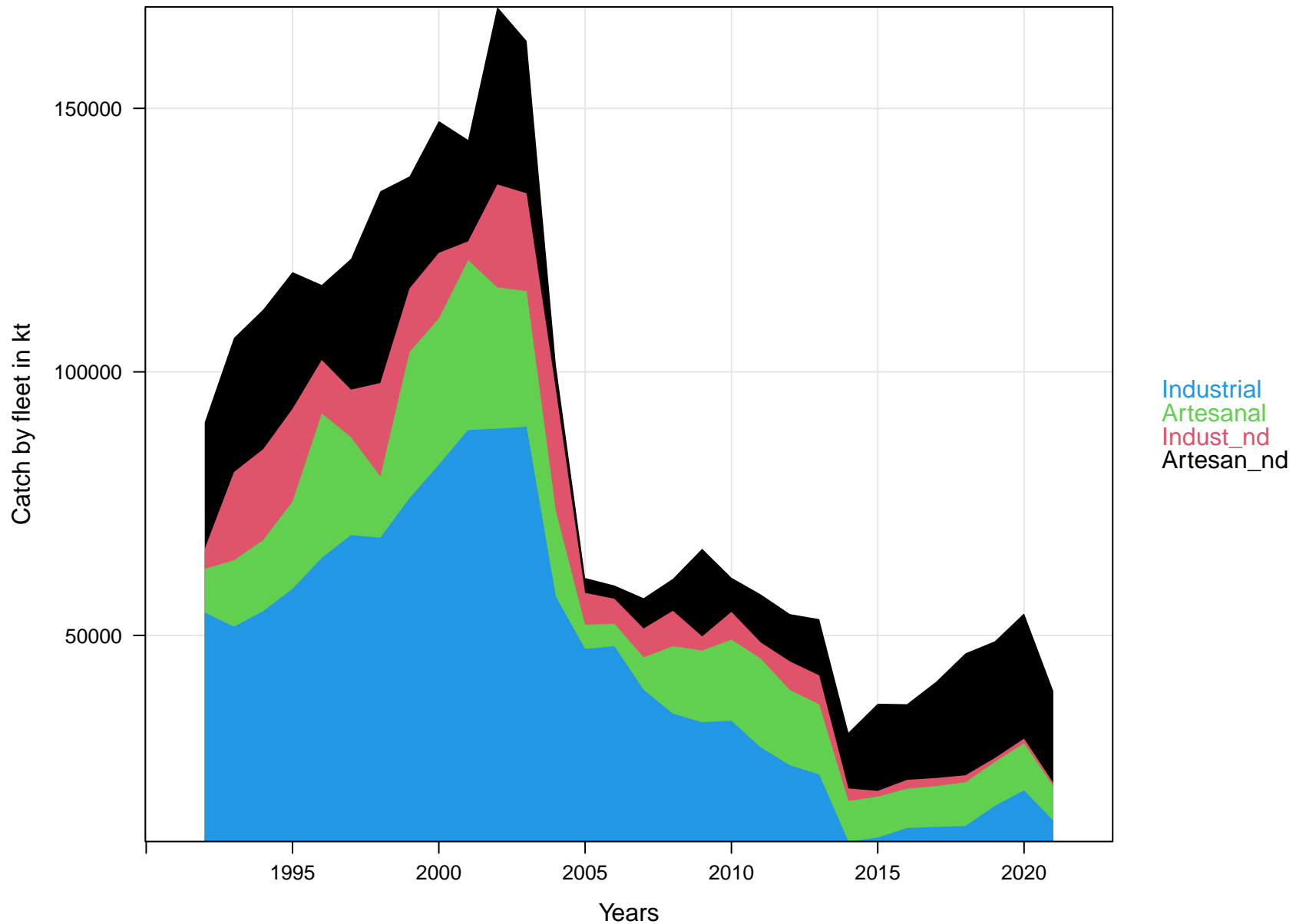
Maturity in the stock



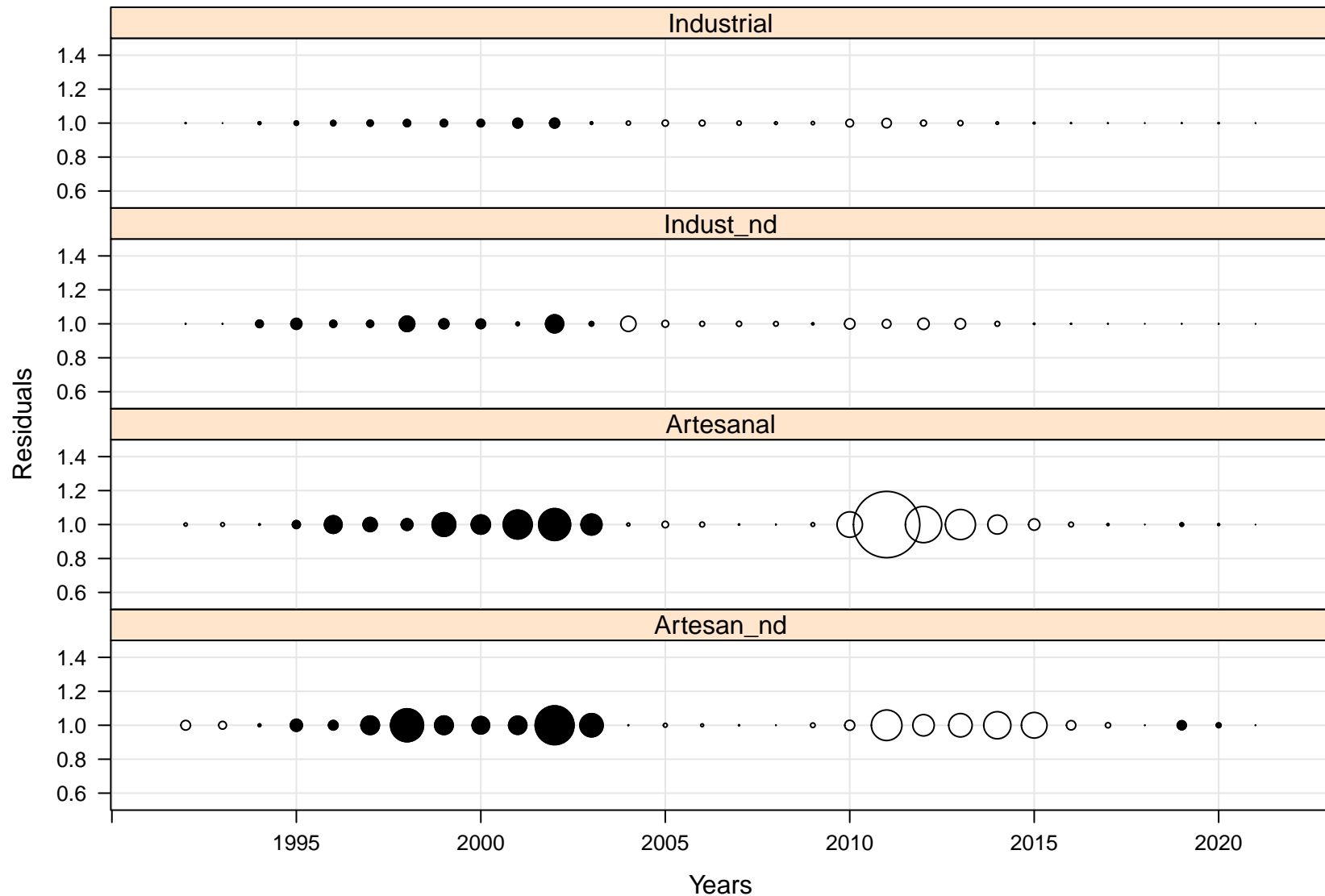
Total catch

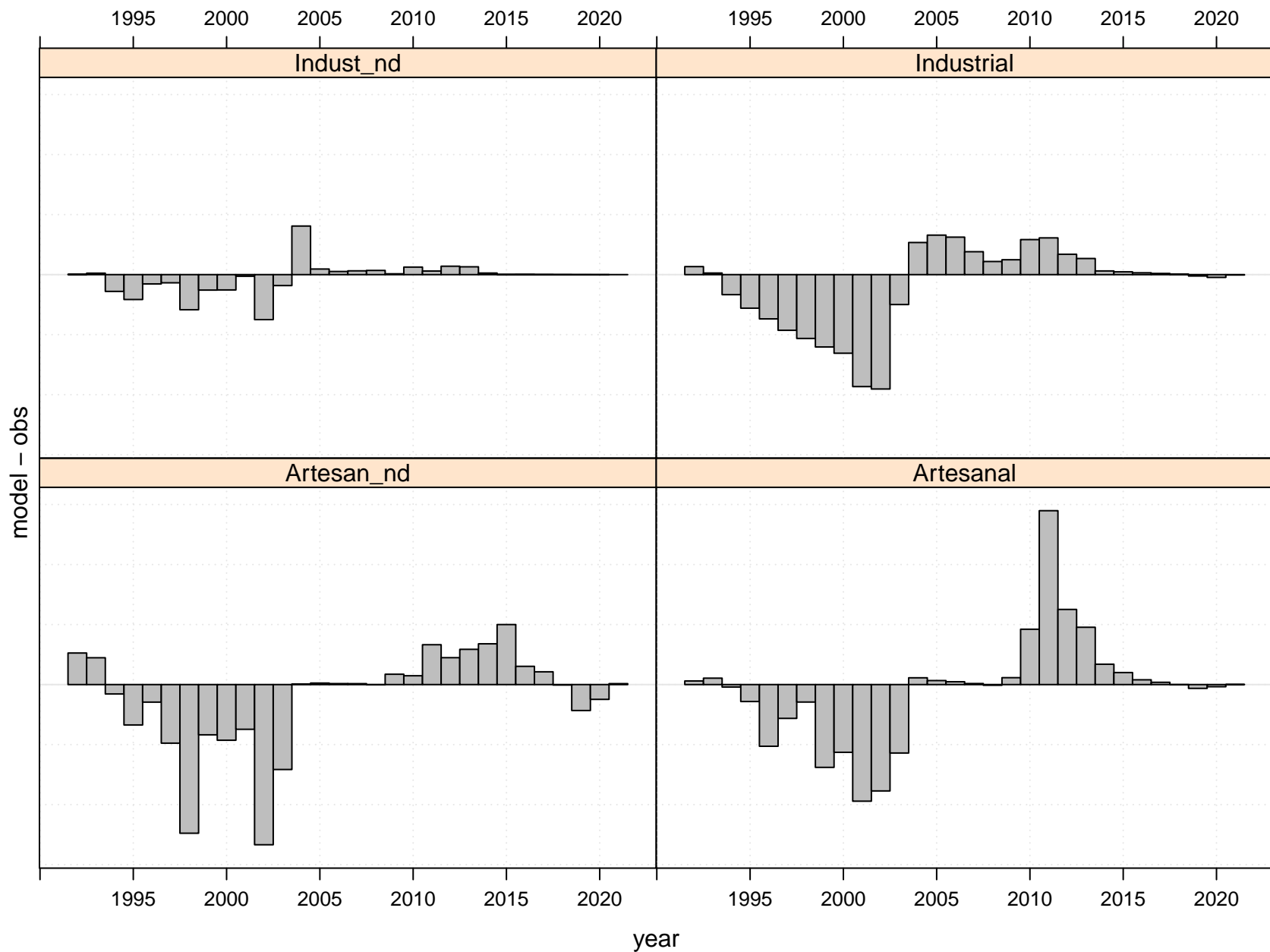


Total catch by fleet

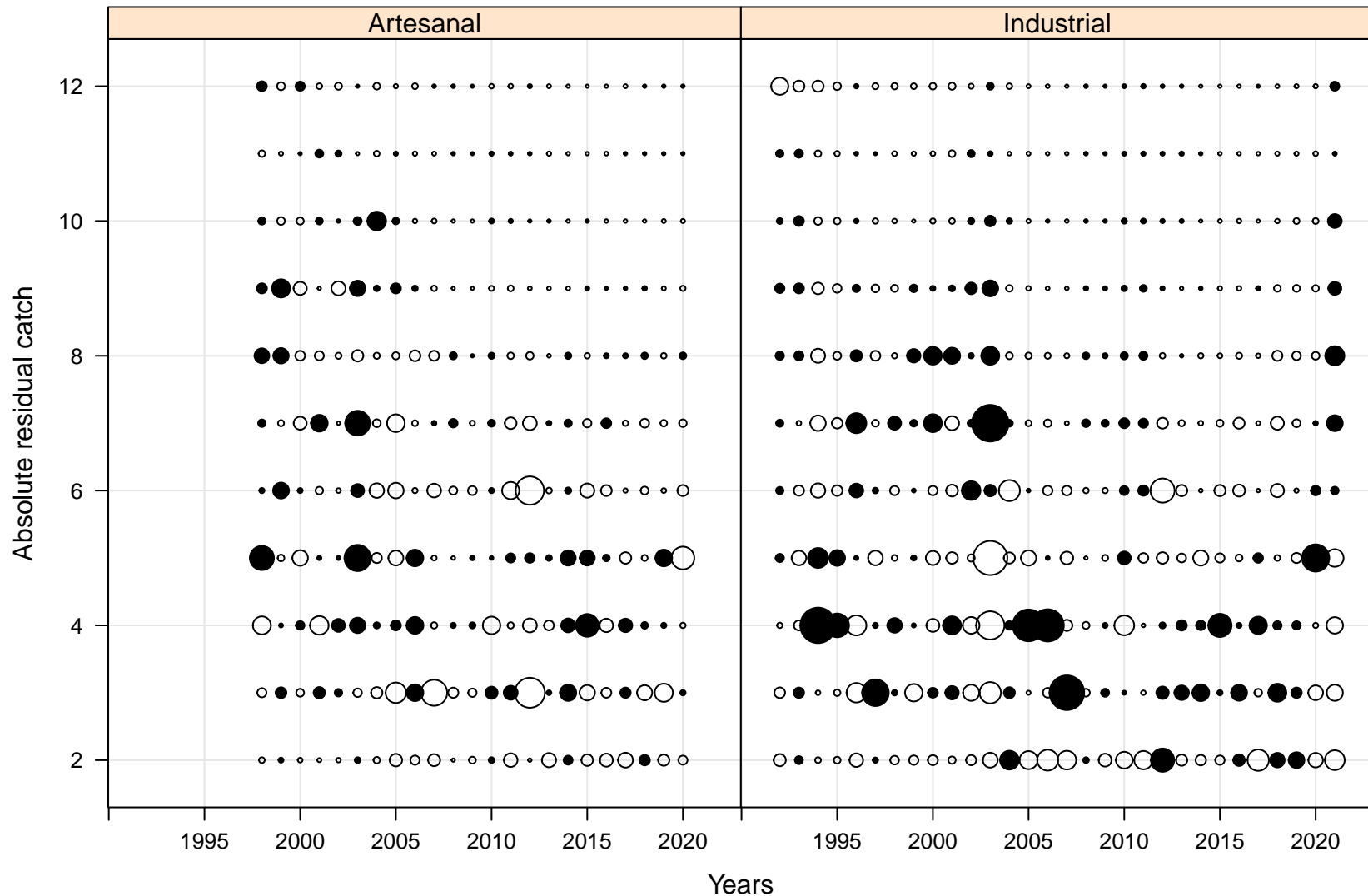
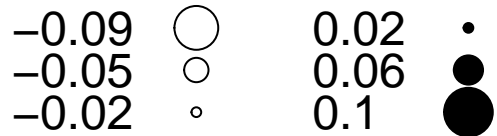


Catch residuals by fleet





Absolute residual catch by fleet

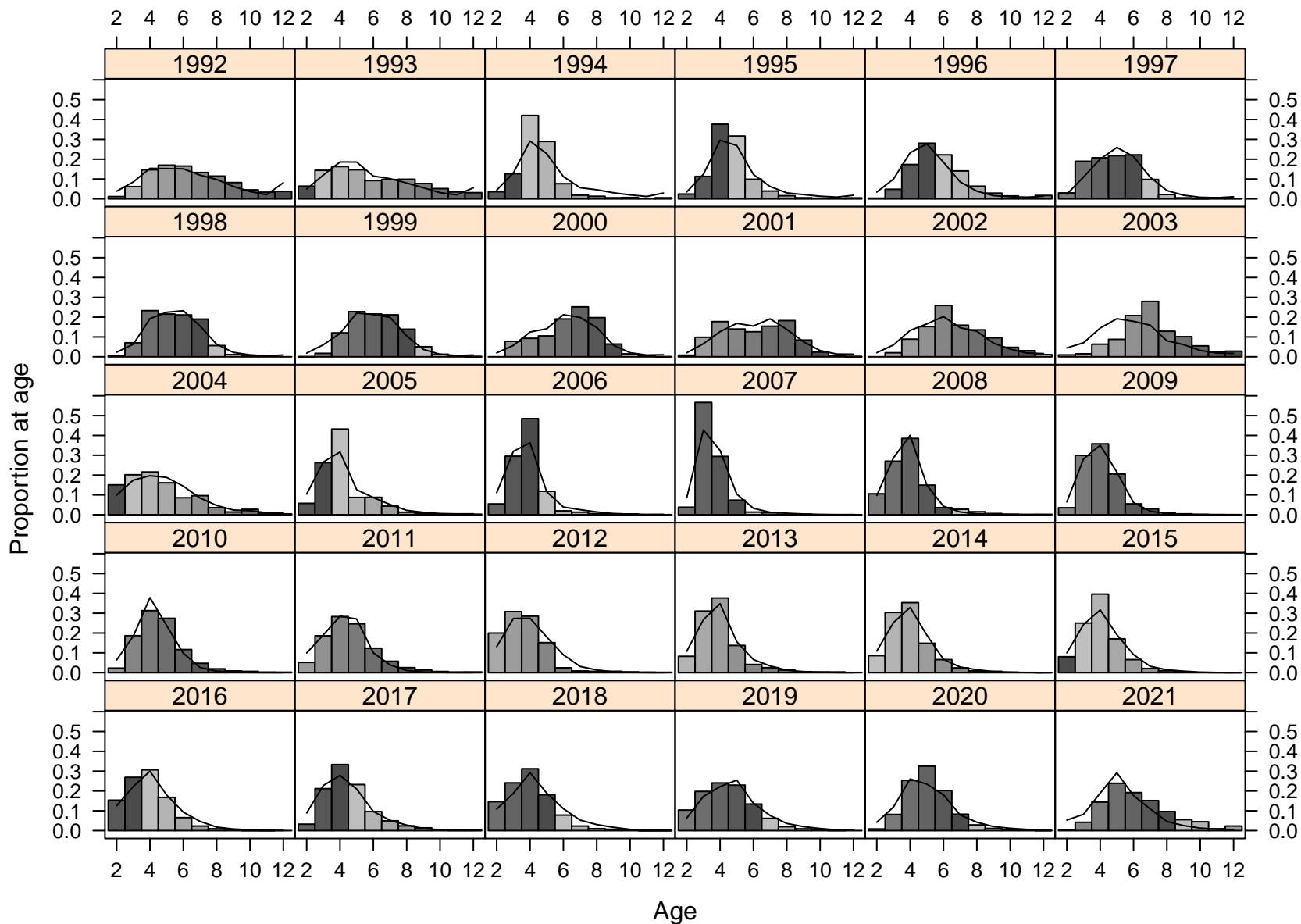


Age fits Industrial

Observed



Predicted

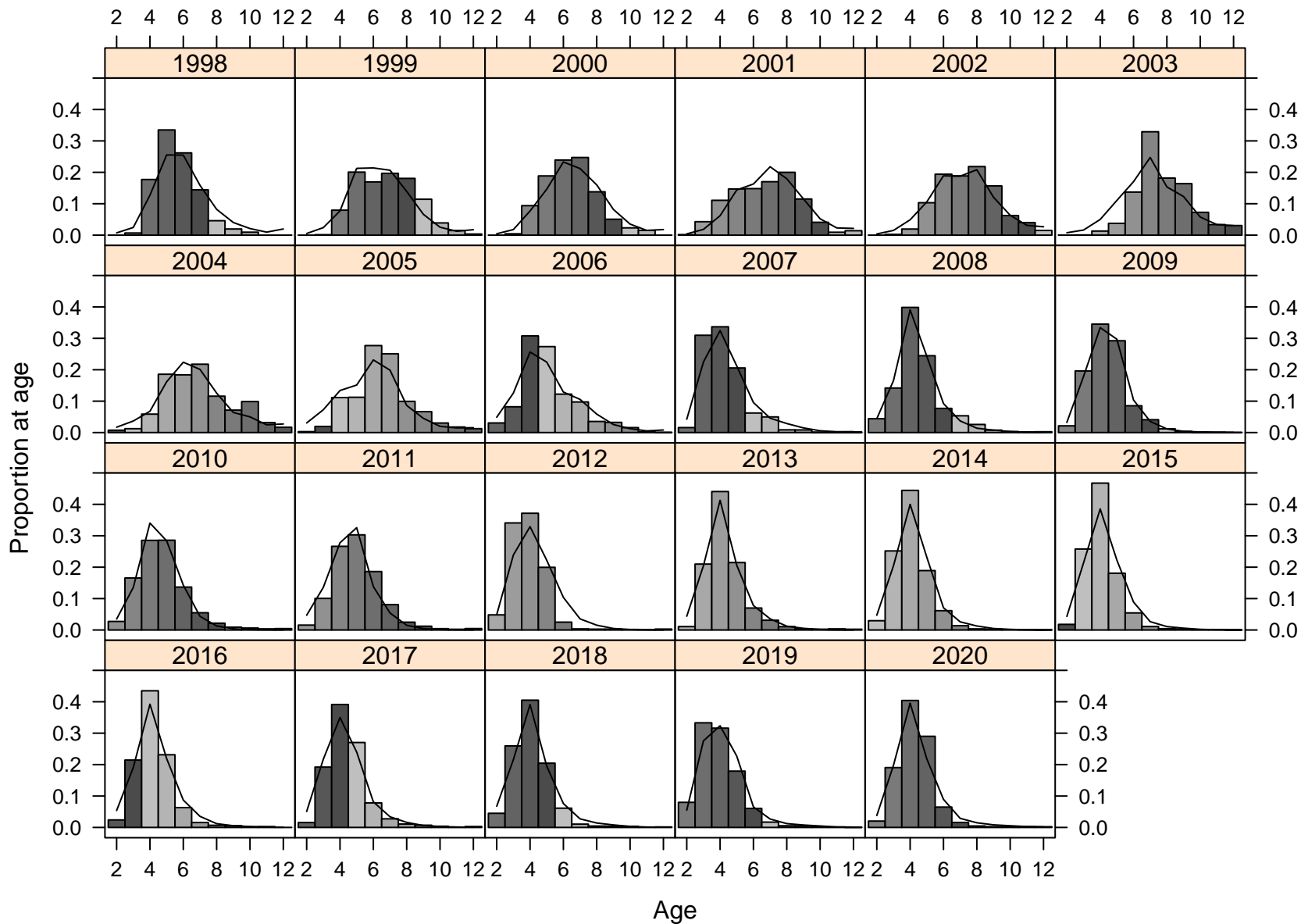


Age fits Artesanal

Observed



Predicted

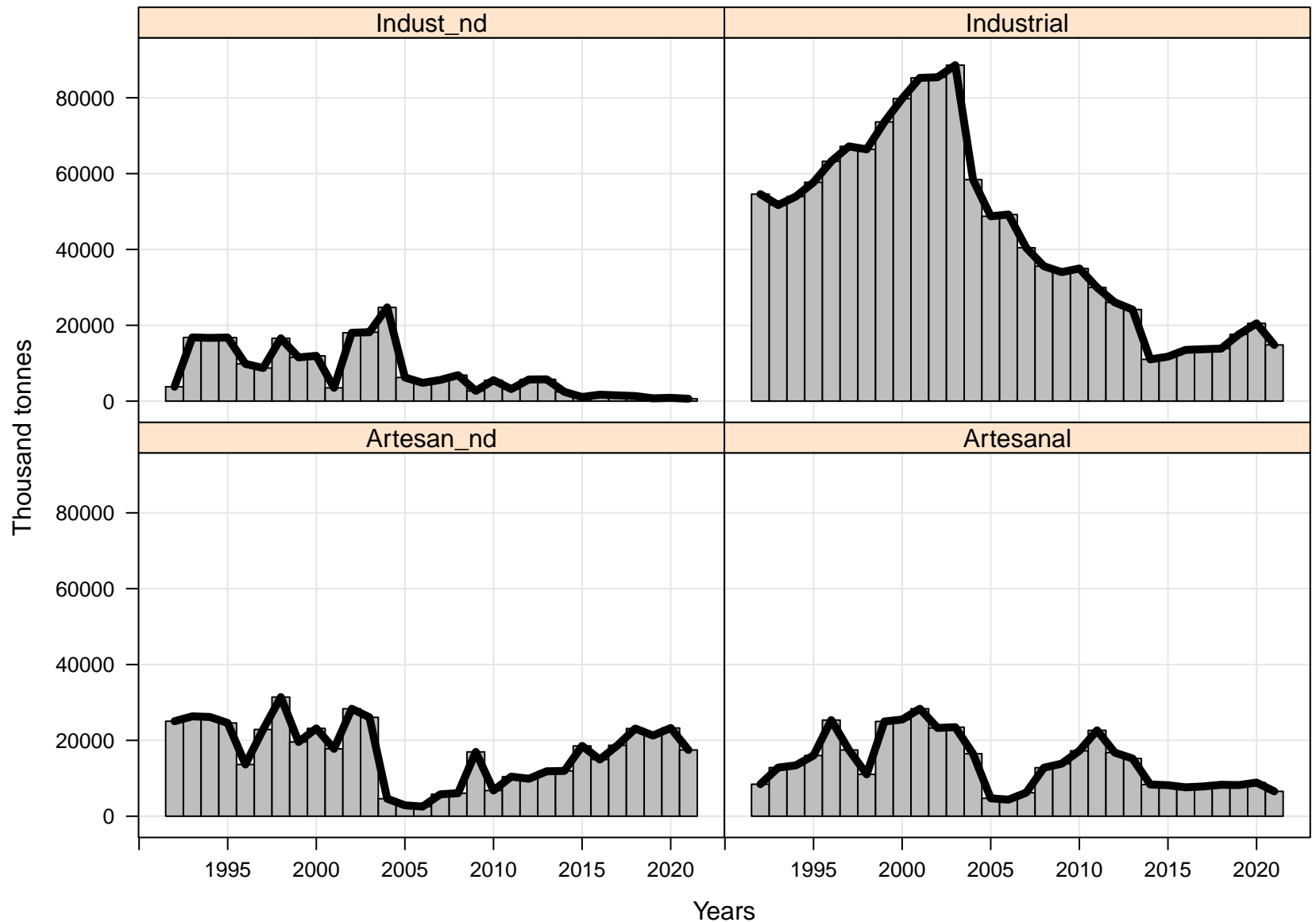


Predicted and observed catches by fleet

Observed



Predicted



Predicted and observed indices

Observed



Predicted



1995

2000

2005

2010

2015

2020

Acoustic

Normalized index value

1995

2000

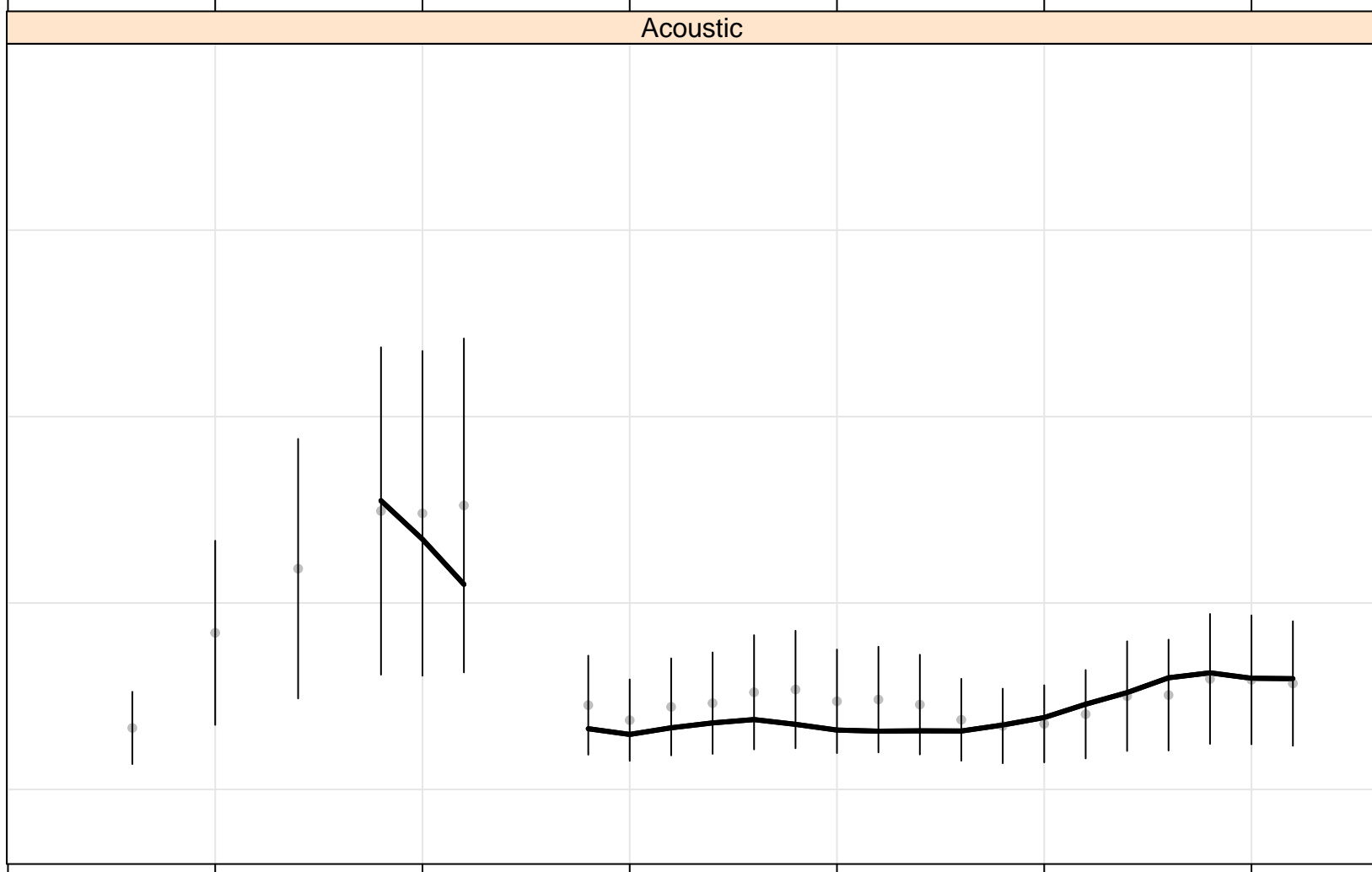
2005

2010

2015

2020

Years

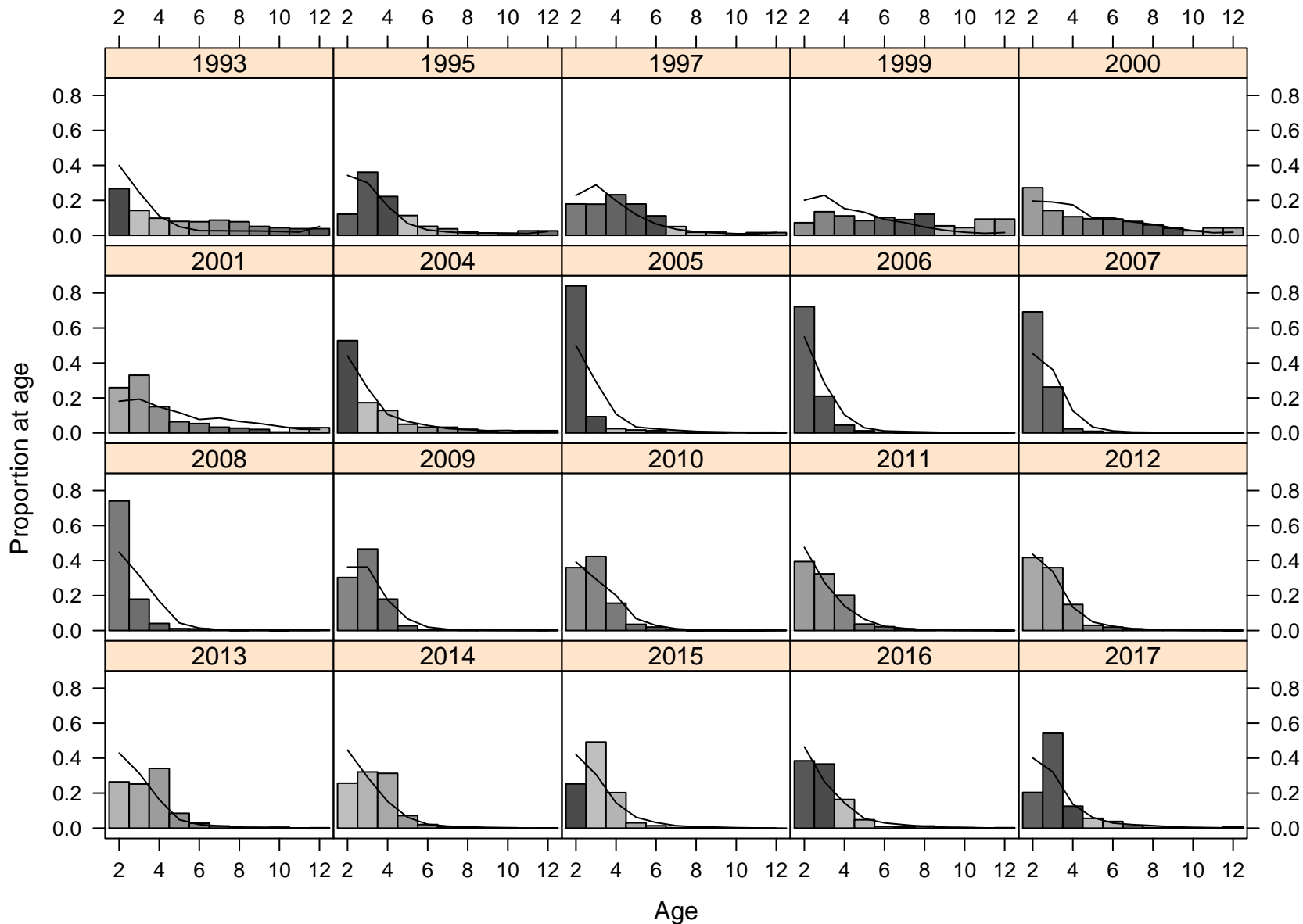


Age fits Acoustic

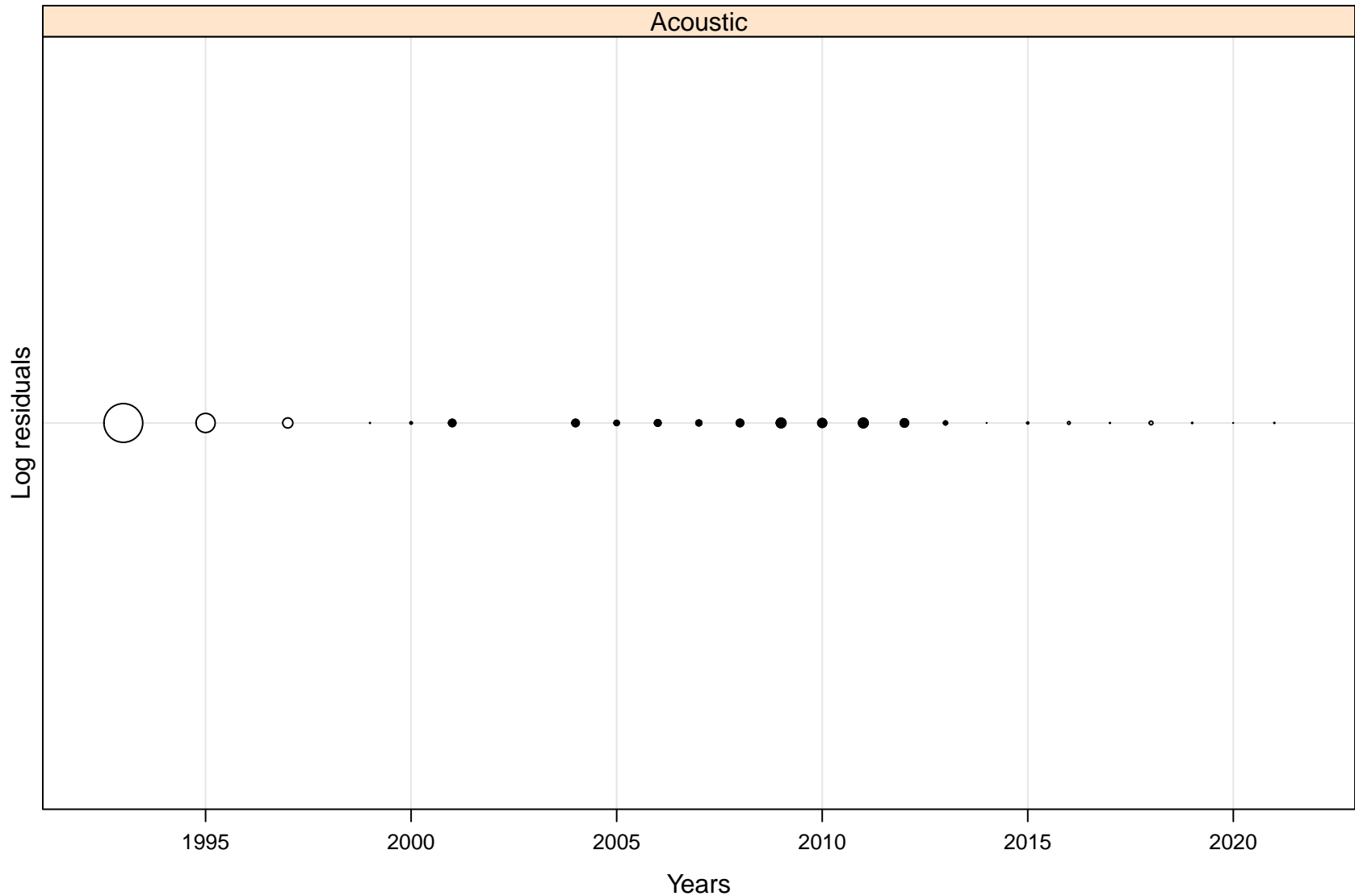
Observed



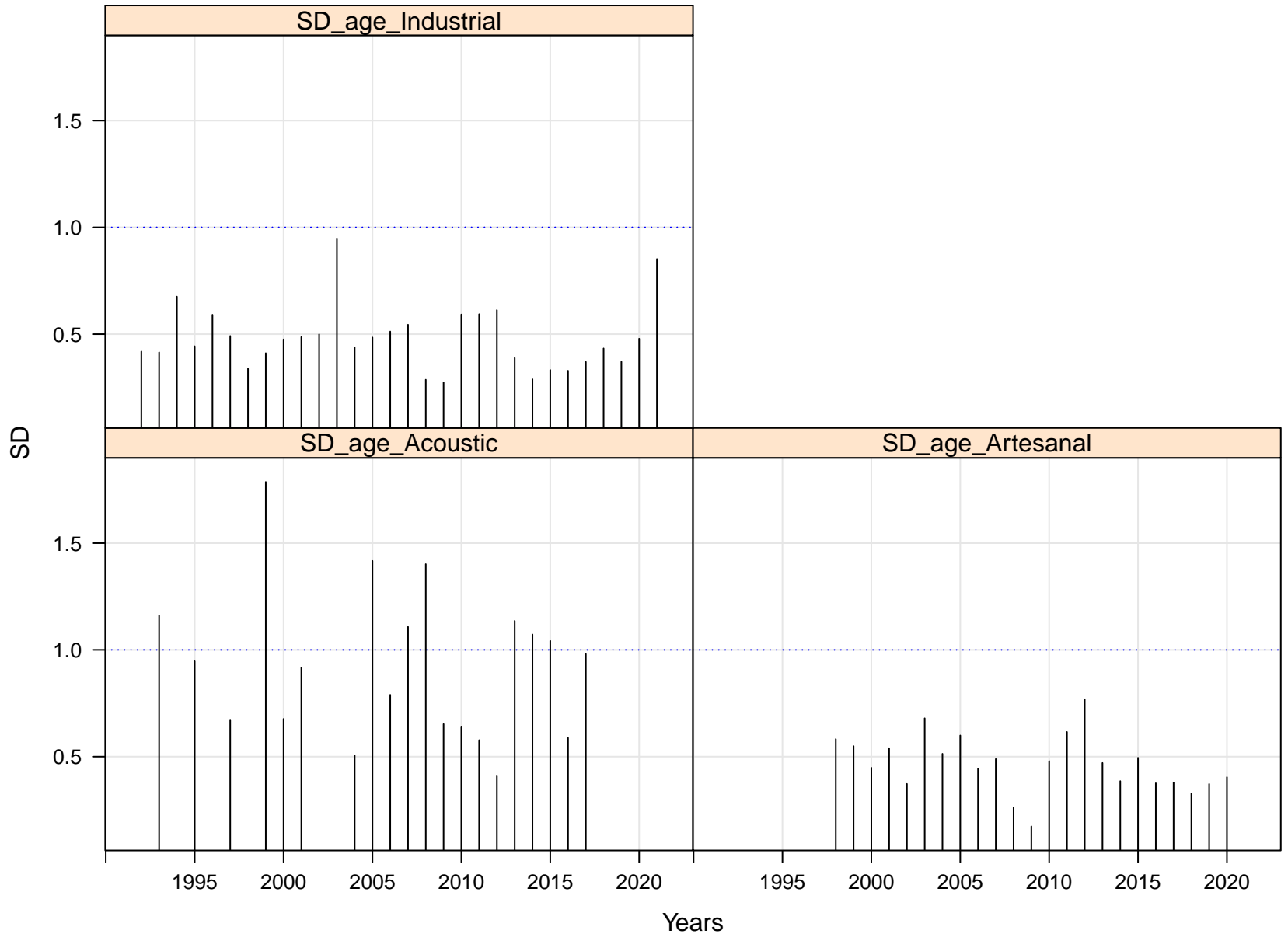
Predicted



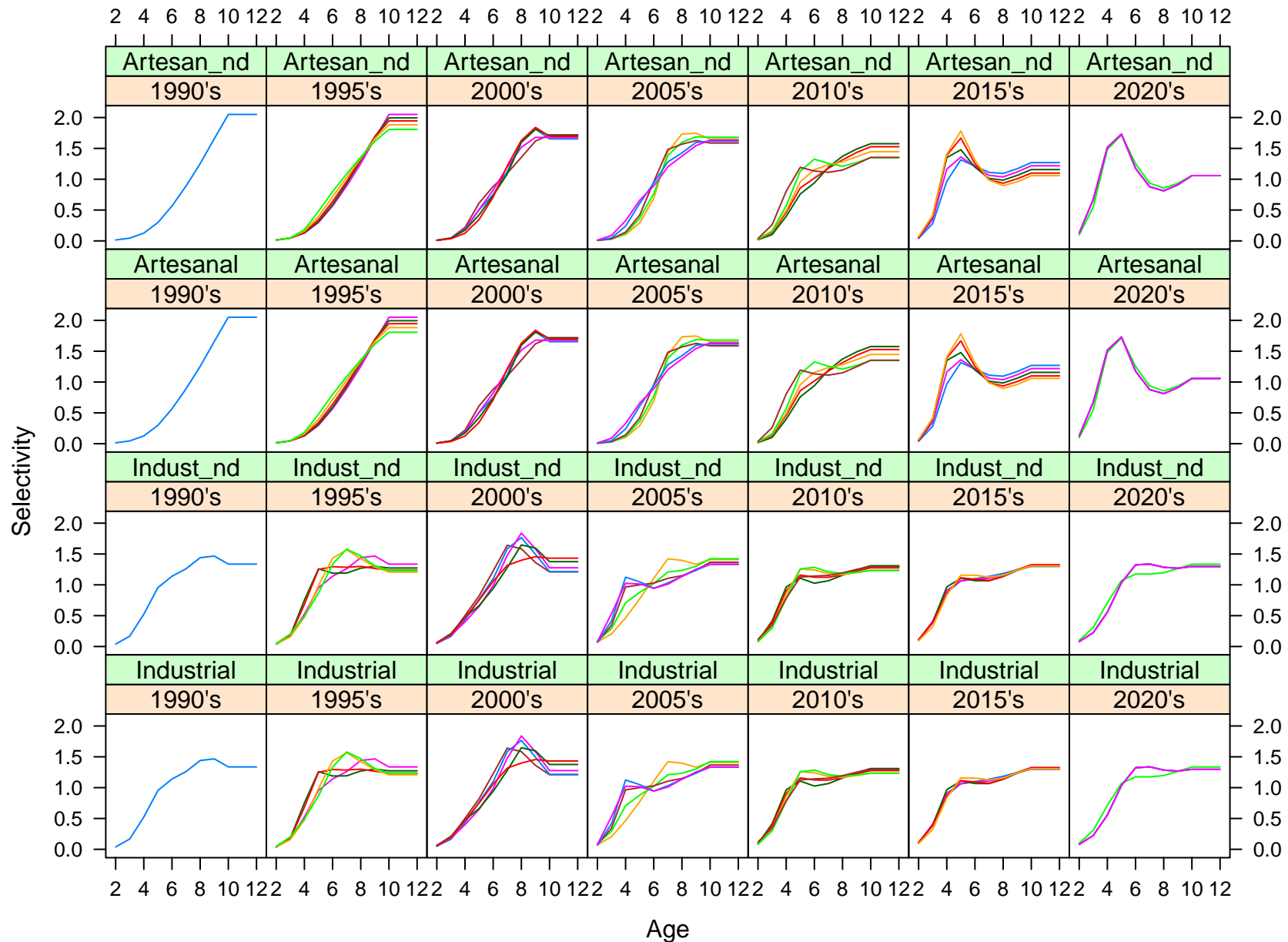
Standardized survey residuals



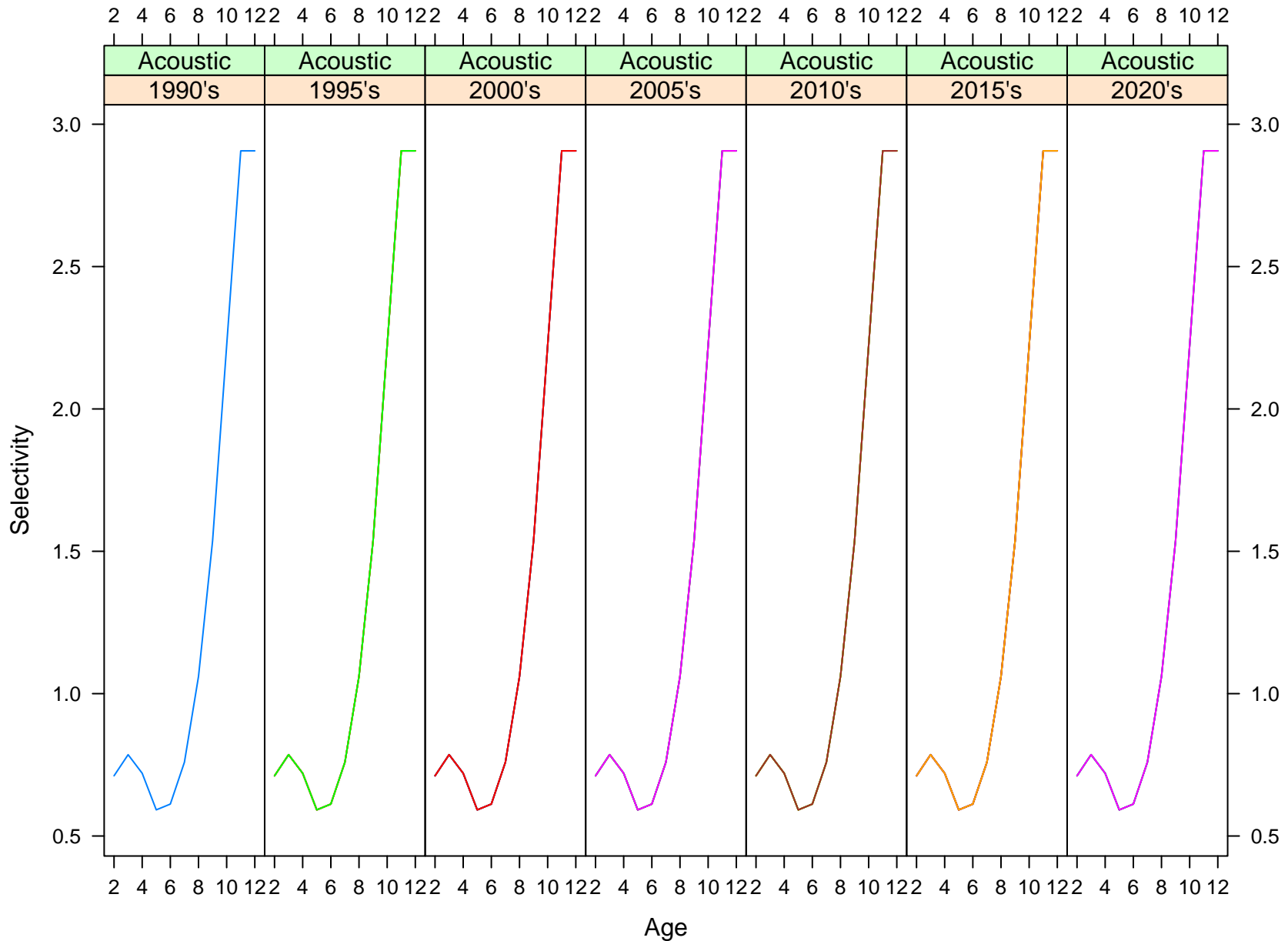
SD per input series



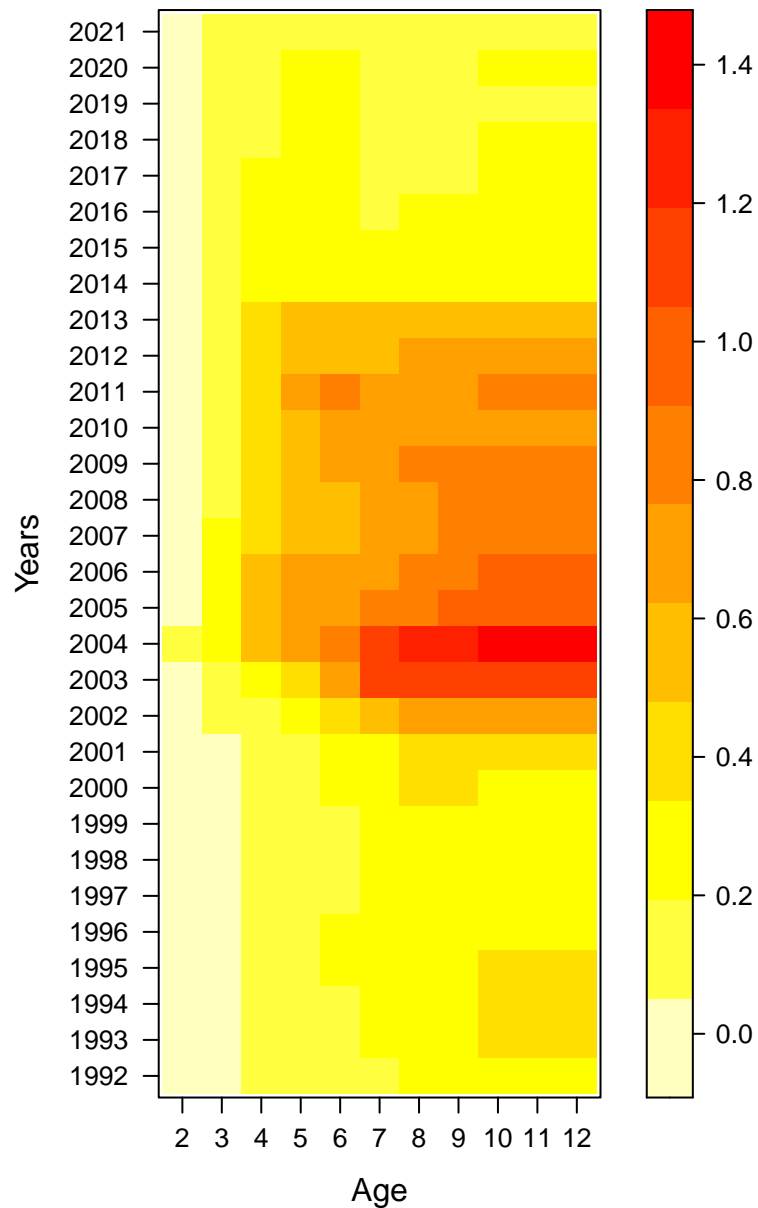
Selectivity of the Fishery by Pentad



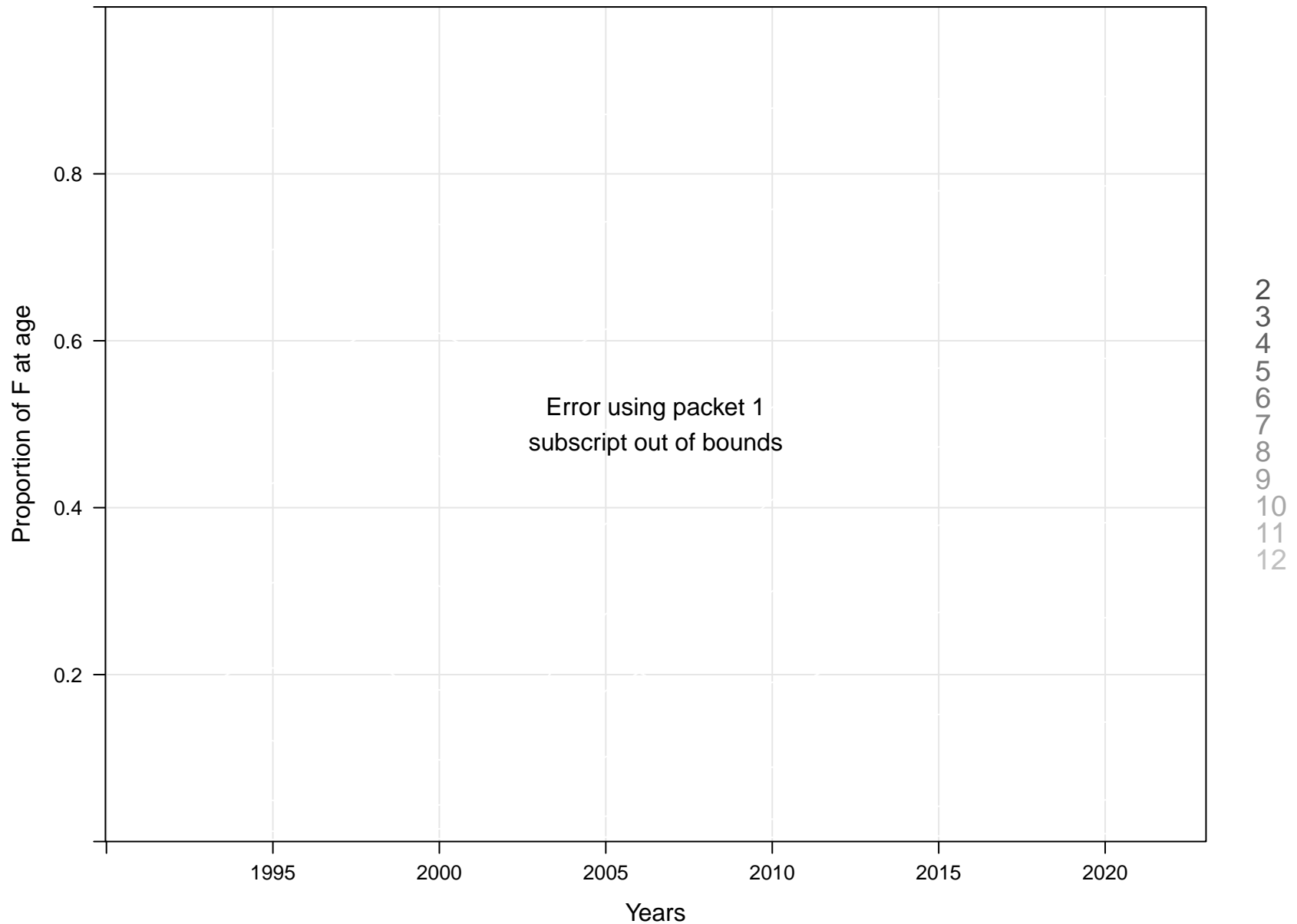
Selectivity of the survey by Pentad



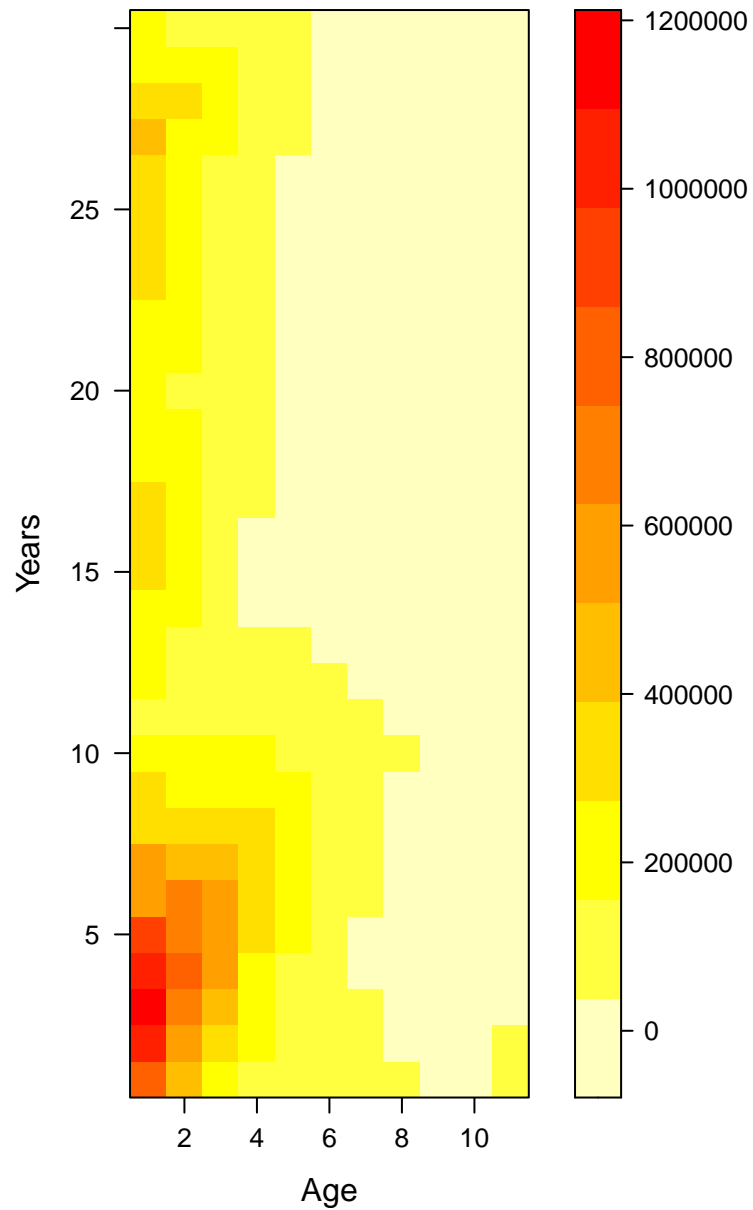
F at age



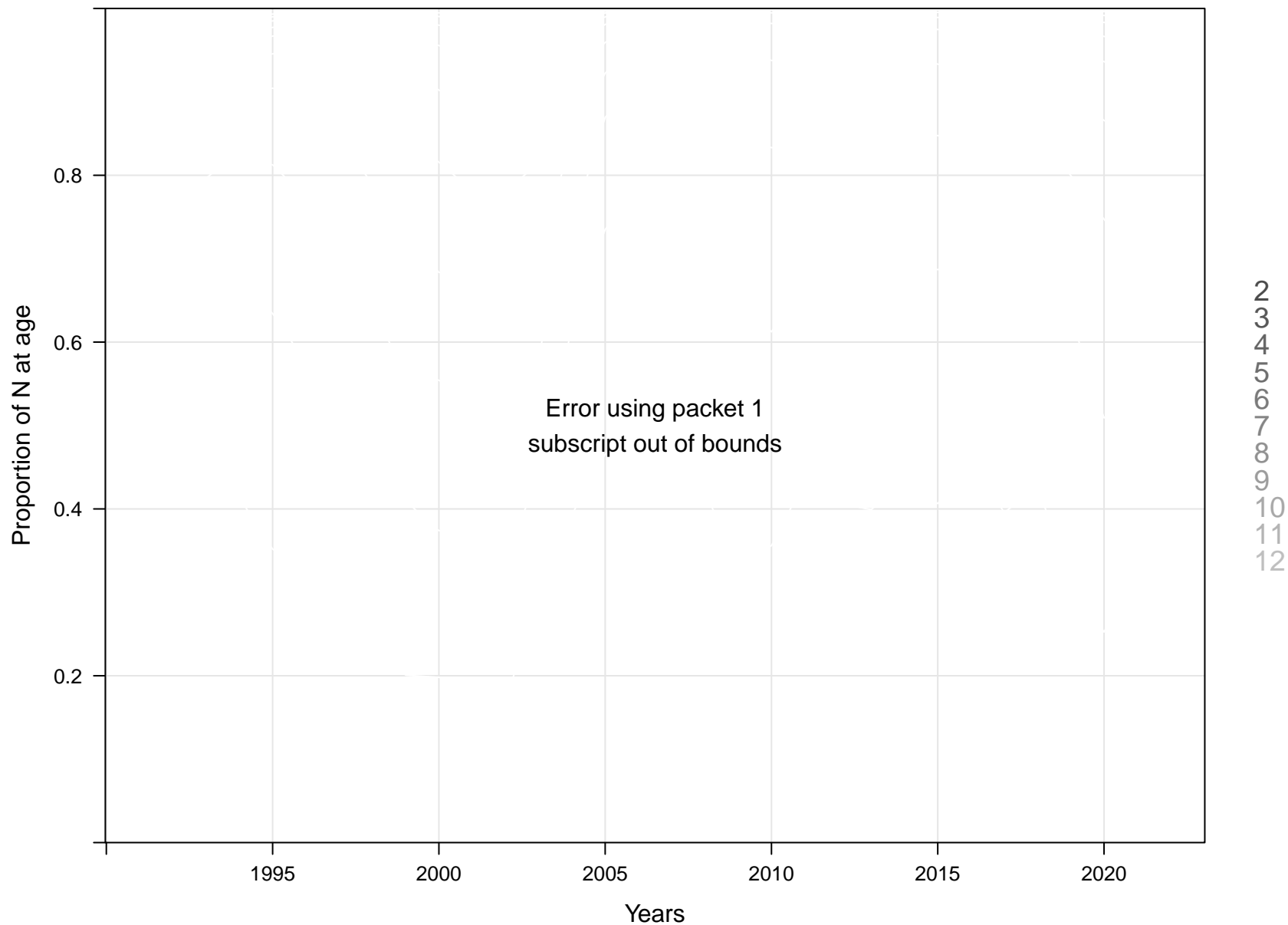
F proportion at age



N at age



Proportion at age

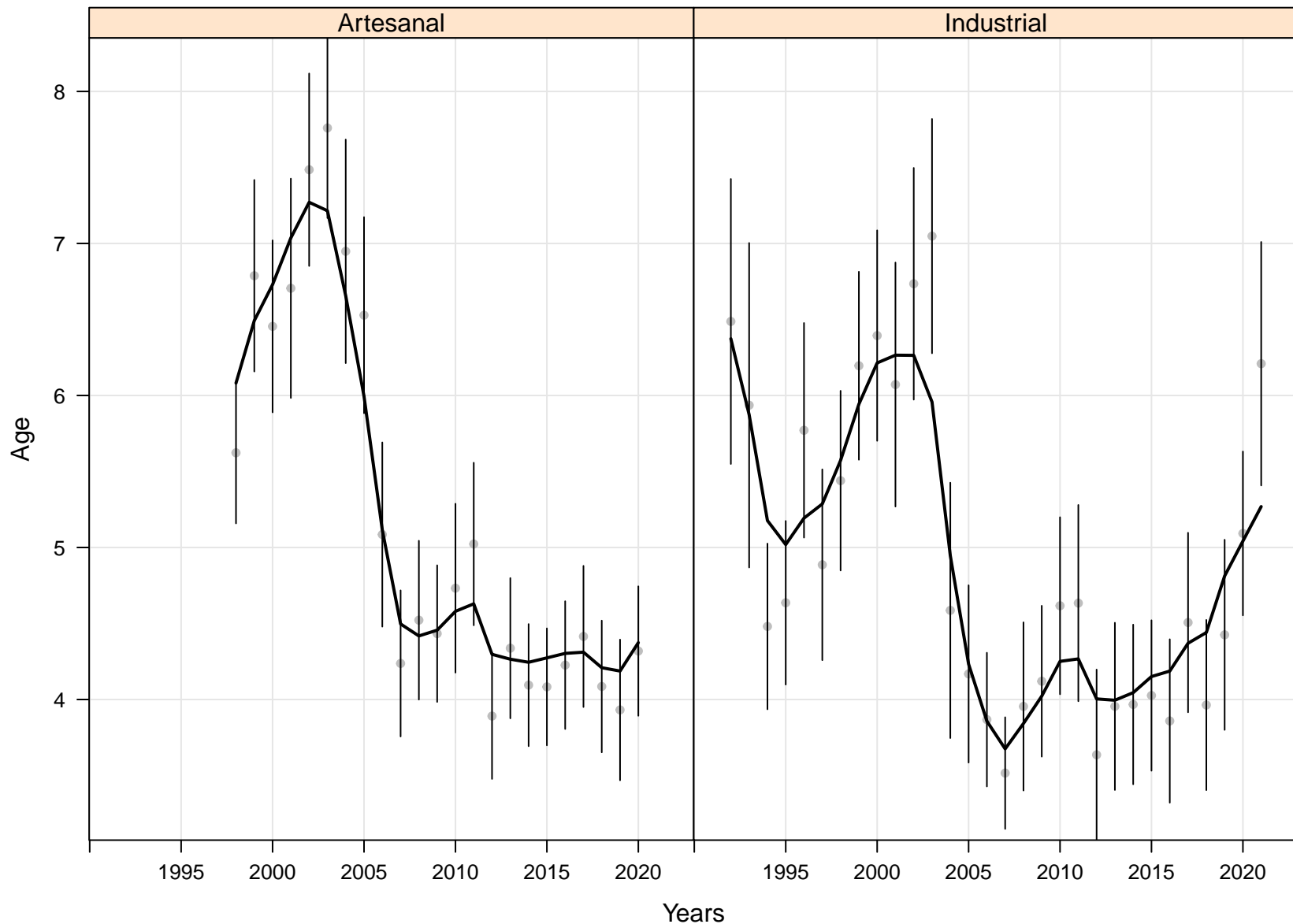


Fishery mean age

Observed



Modelled

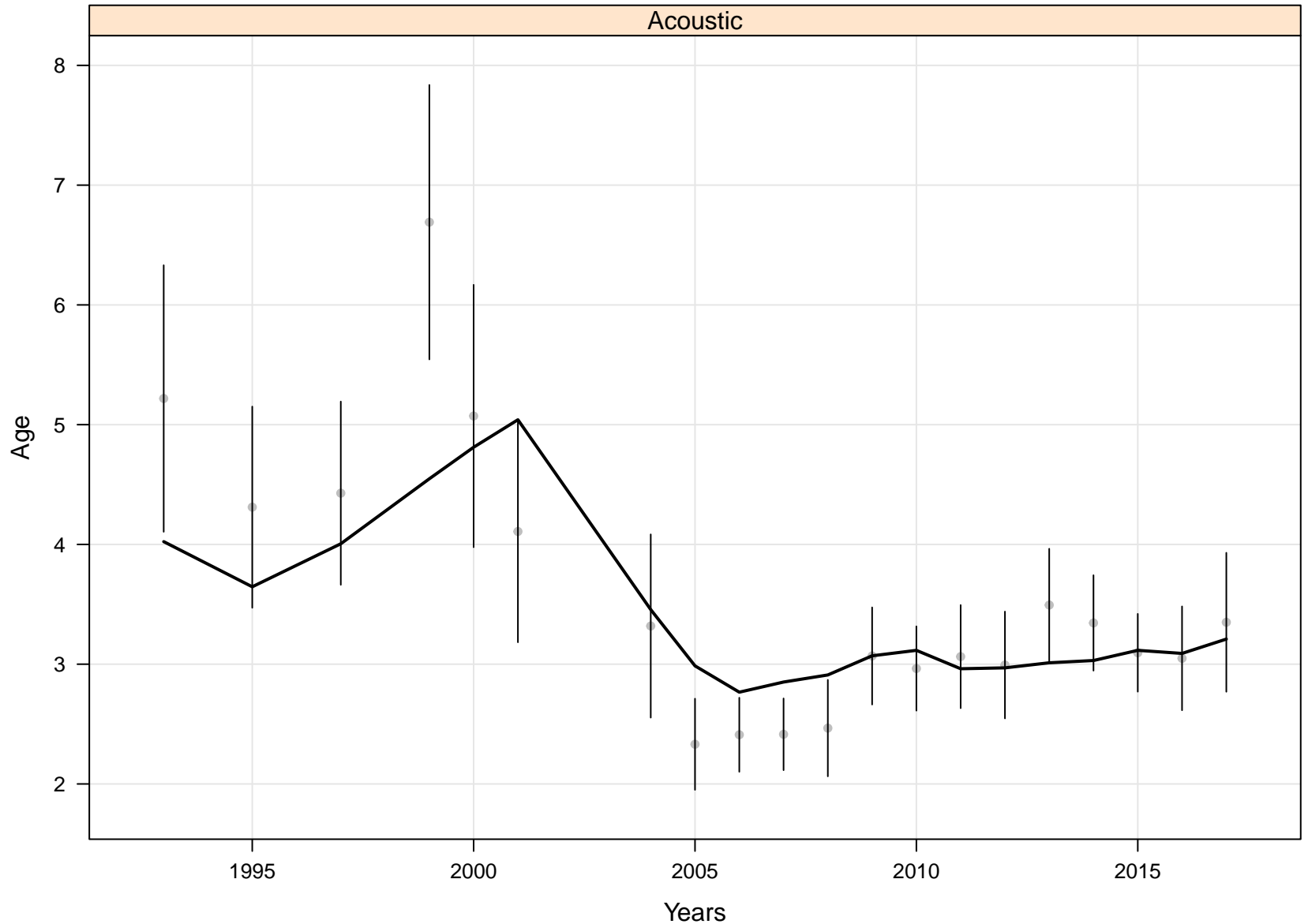


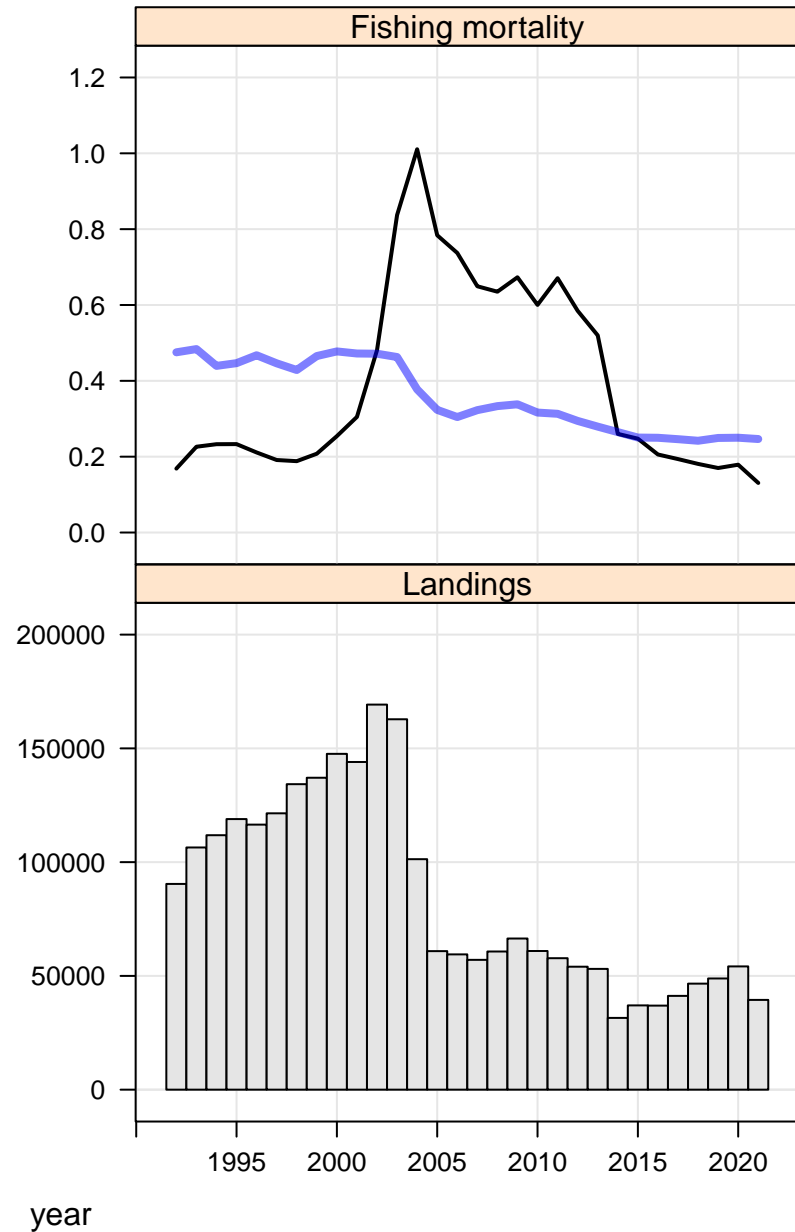
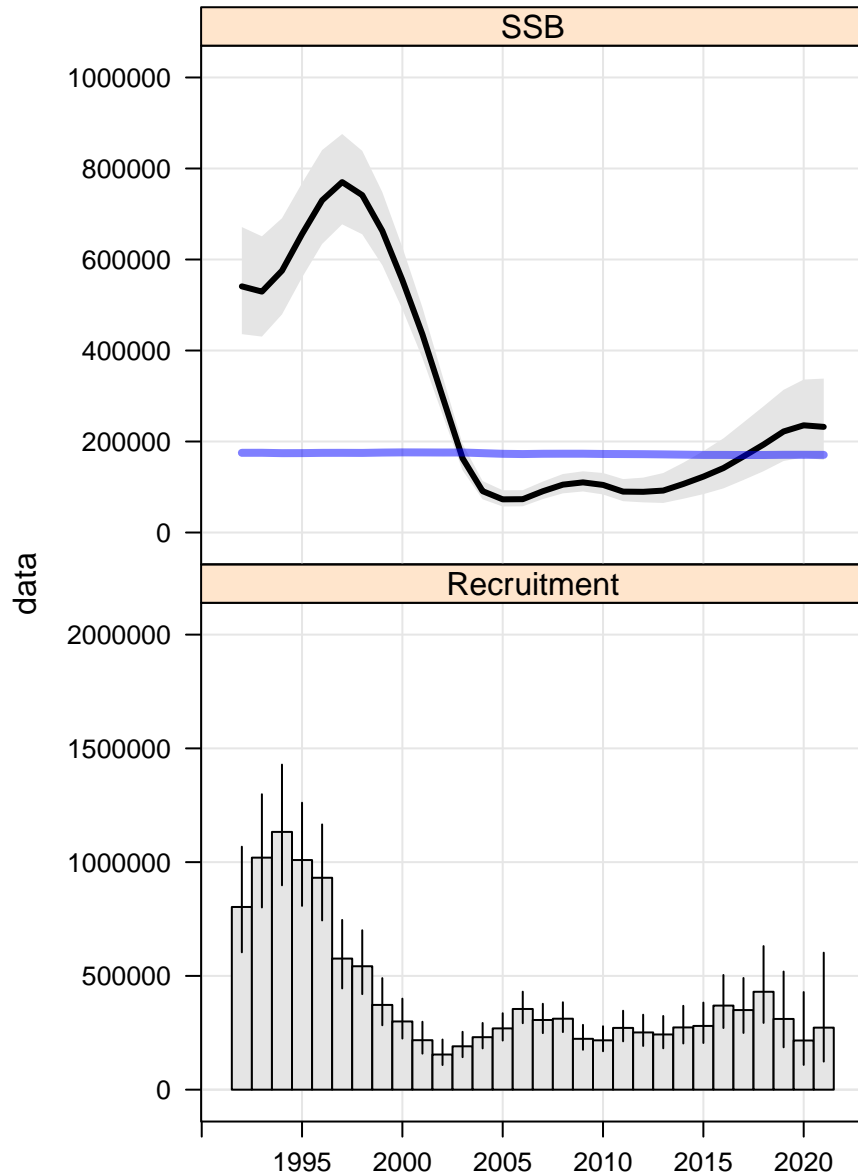
Survey mean age

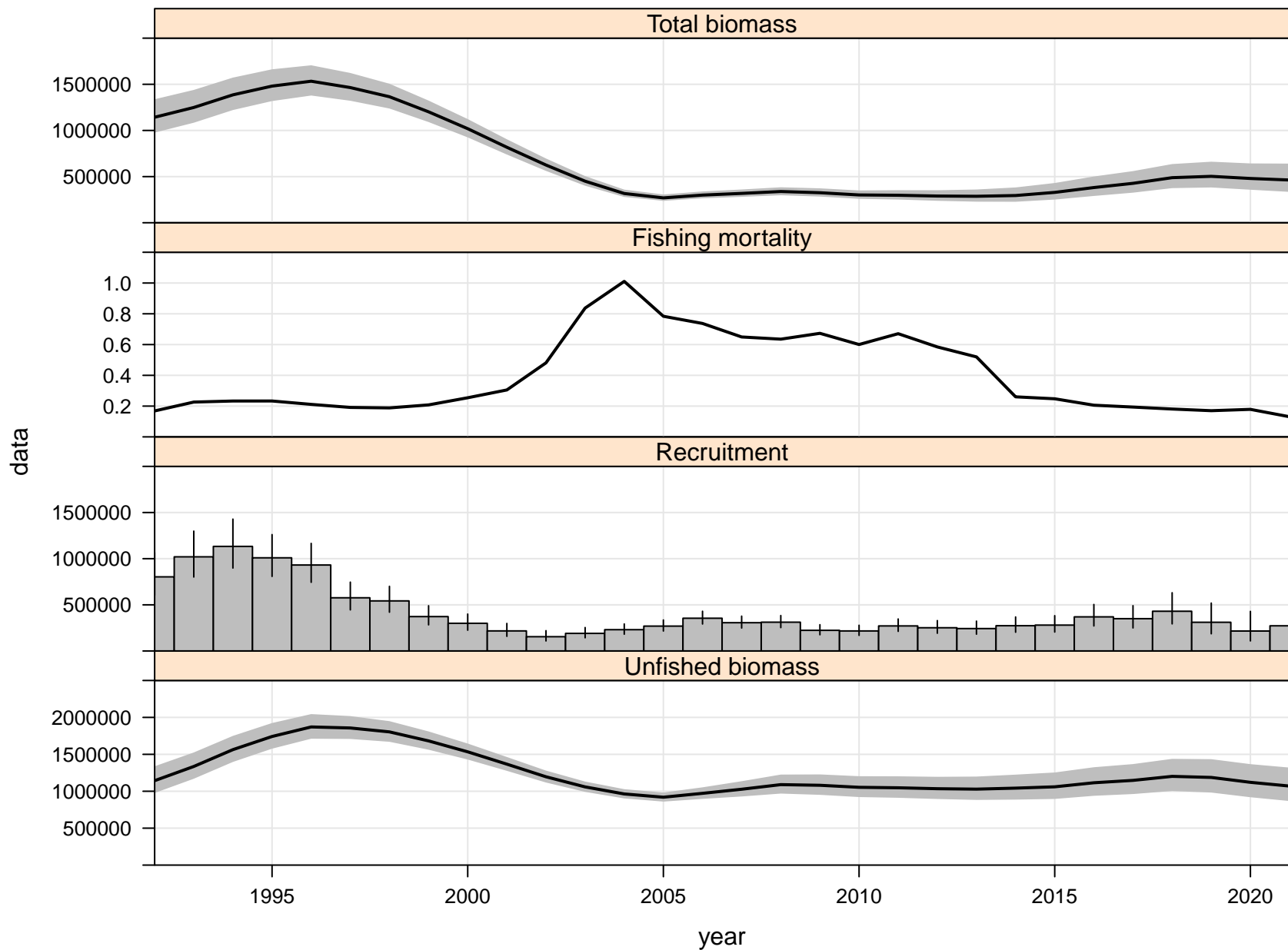
Observed



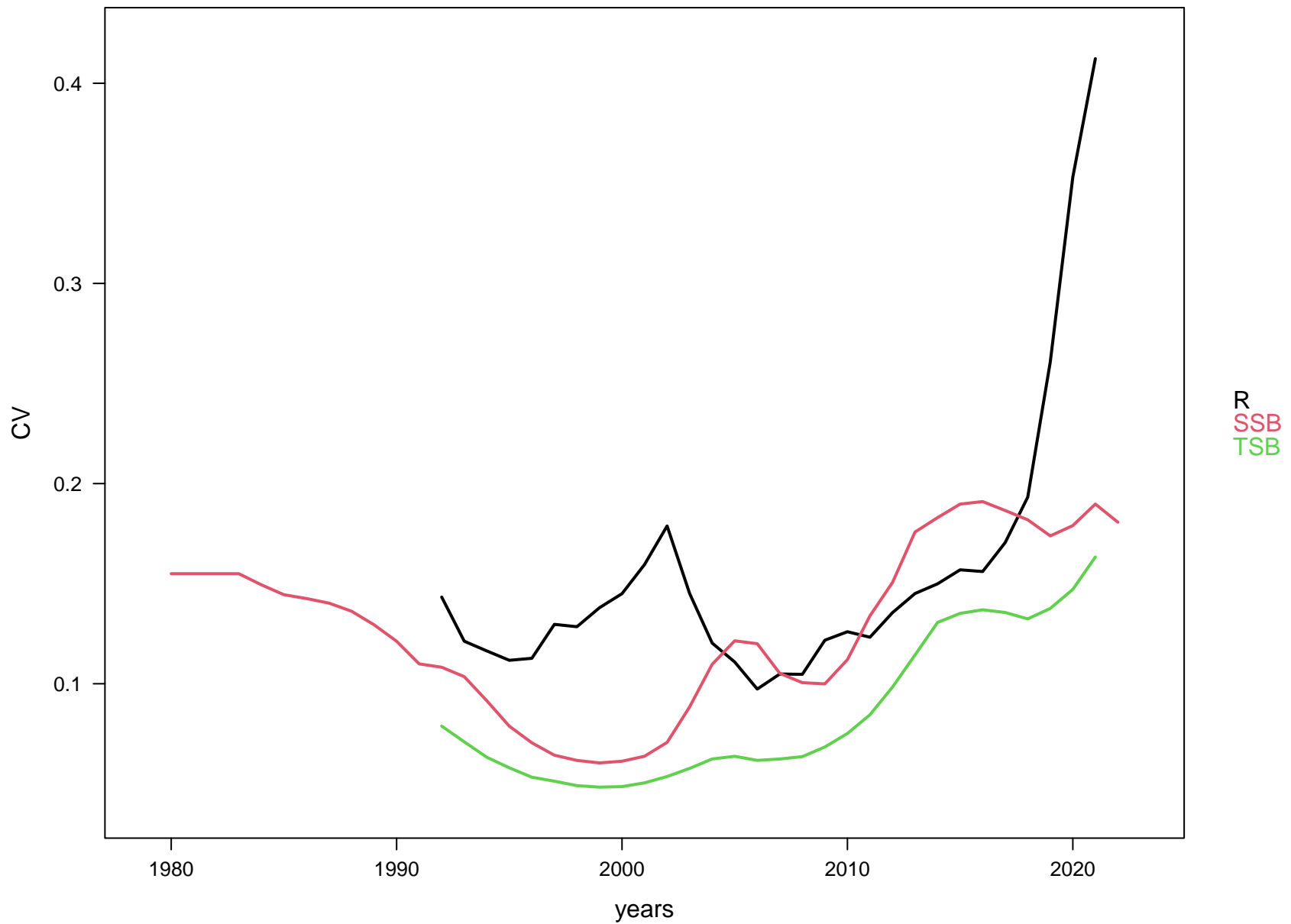
Modelled



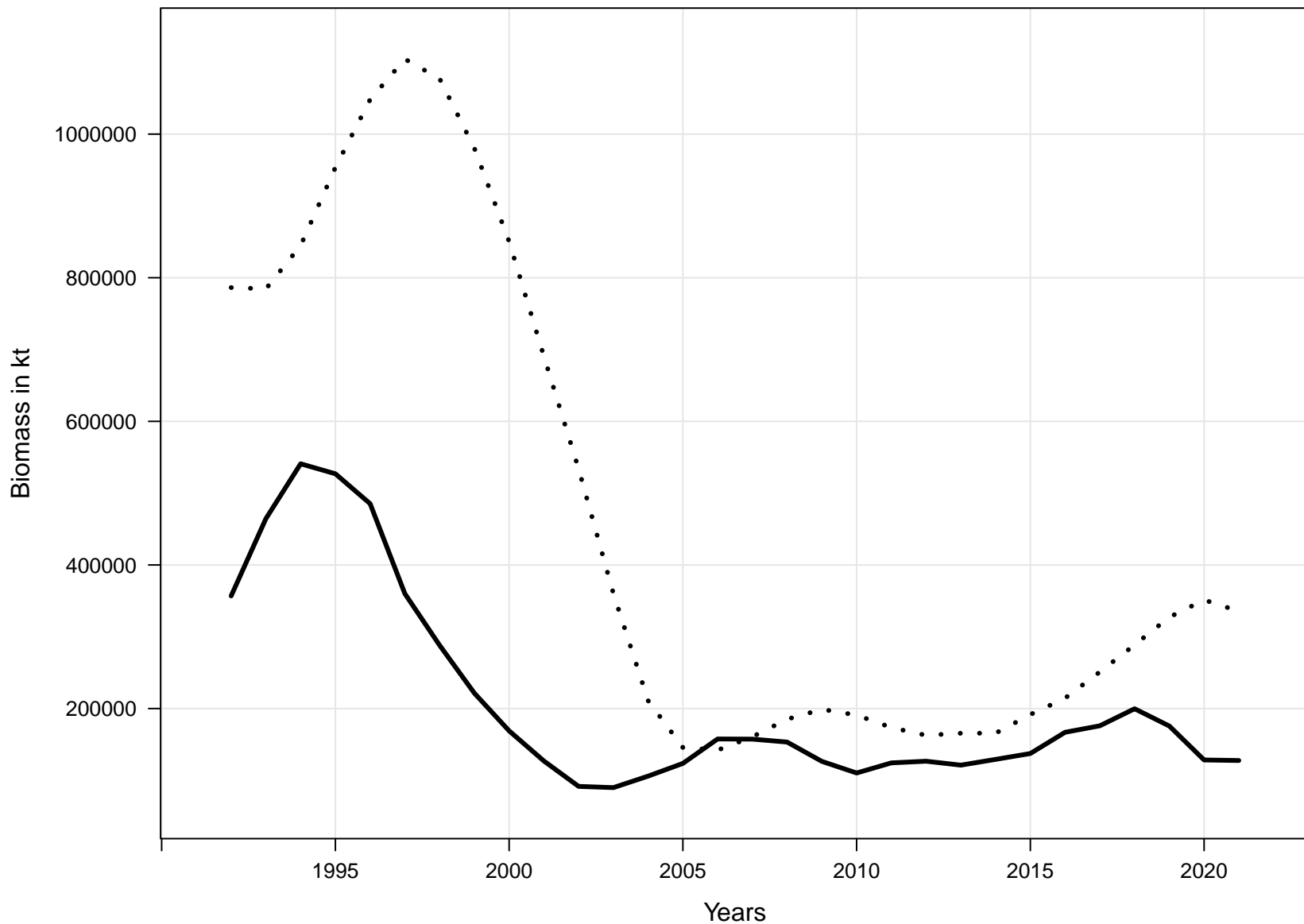




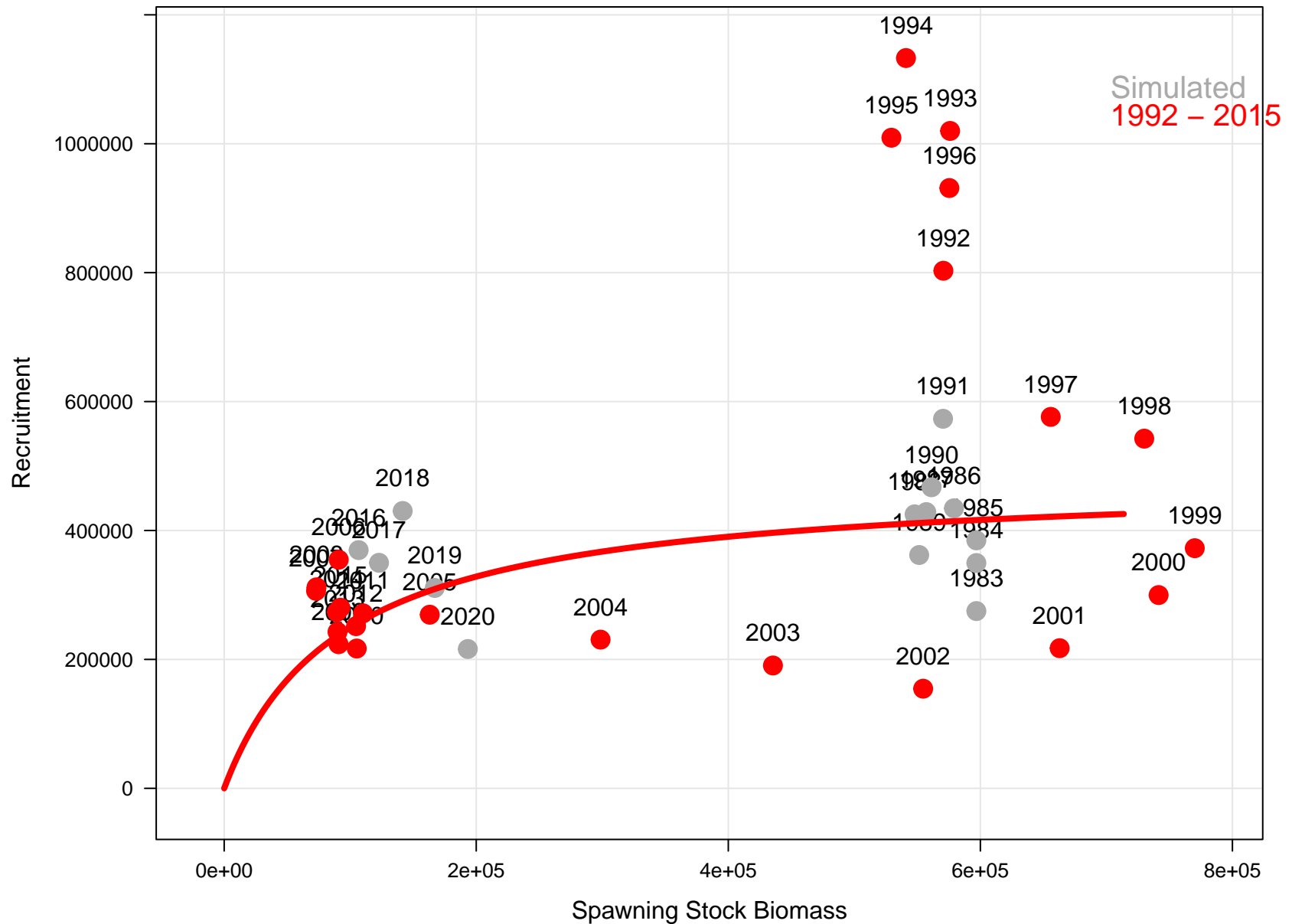
Uncertainty of key parameters



Mature – Immature fish
Mature Immature —

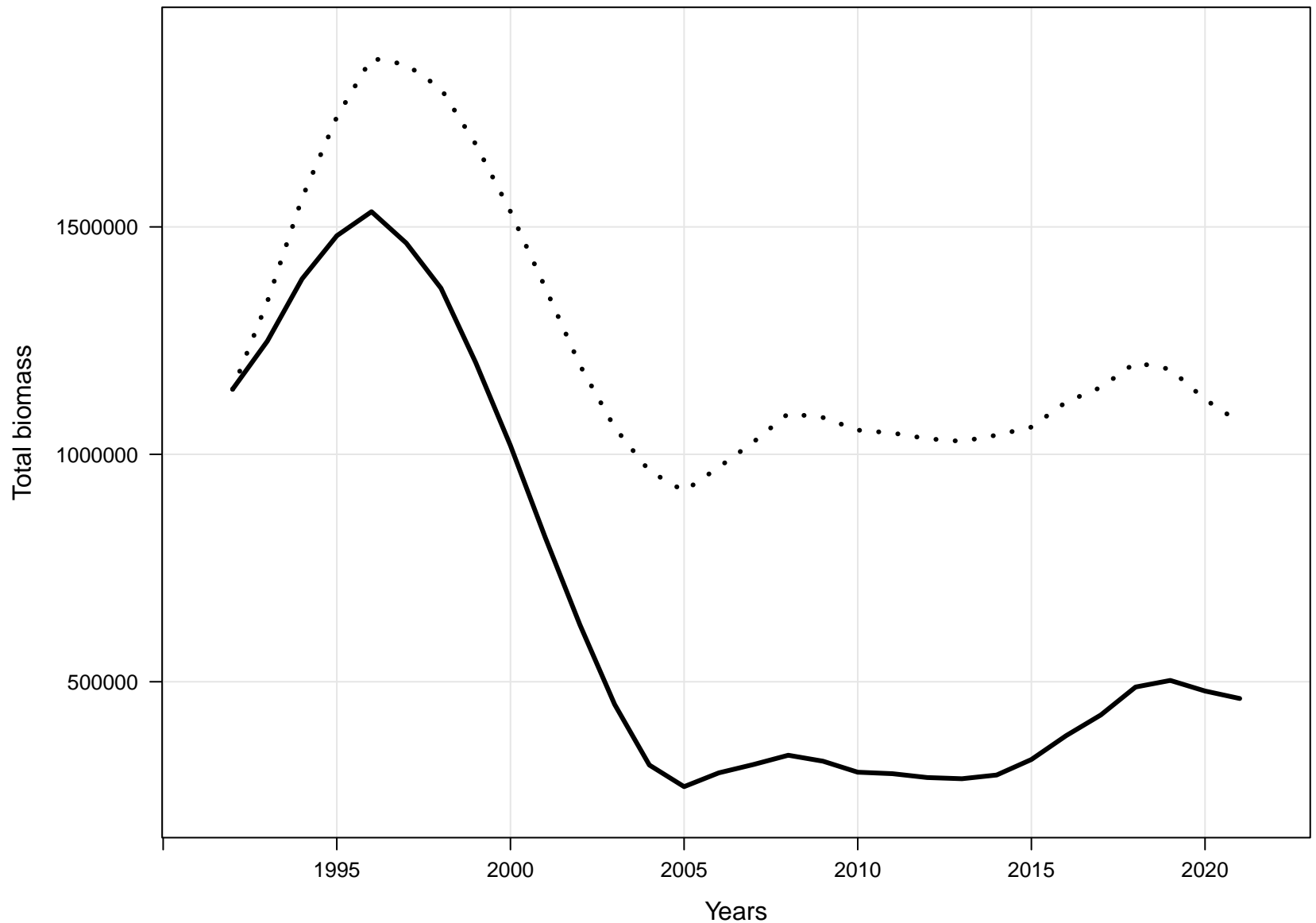


Stock Recruitment



Comparing fished with unfished biomass

Fished — Unfished



SSB prediction

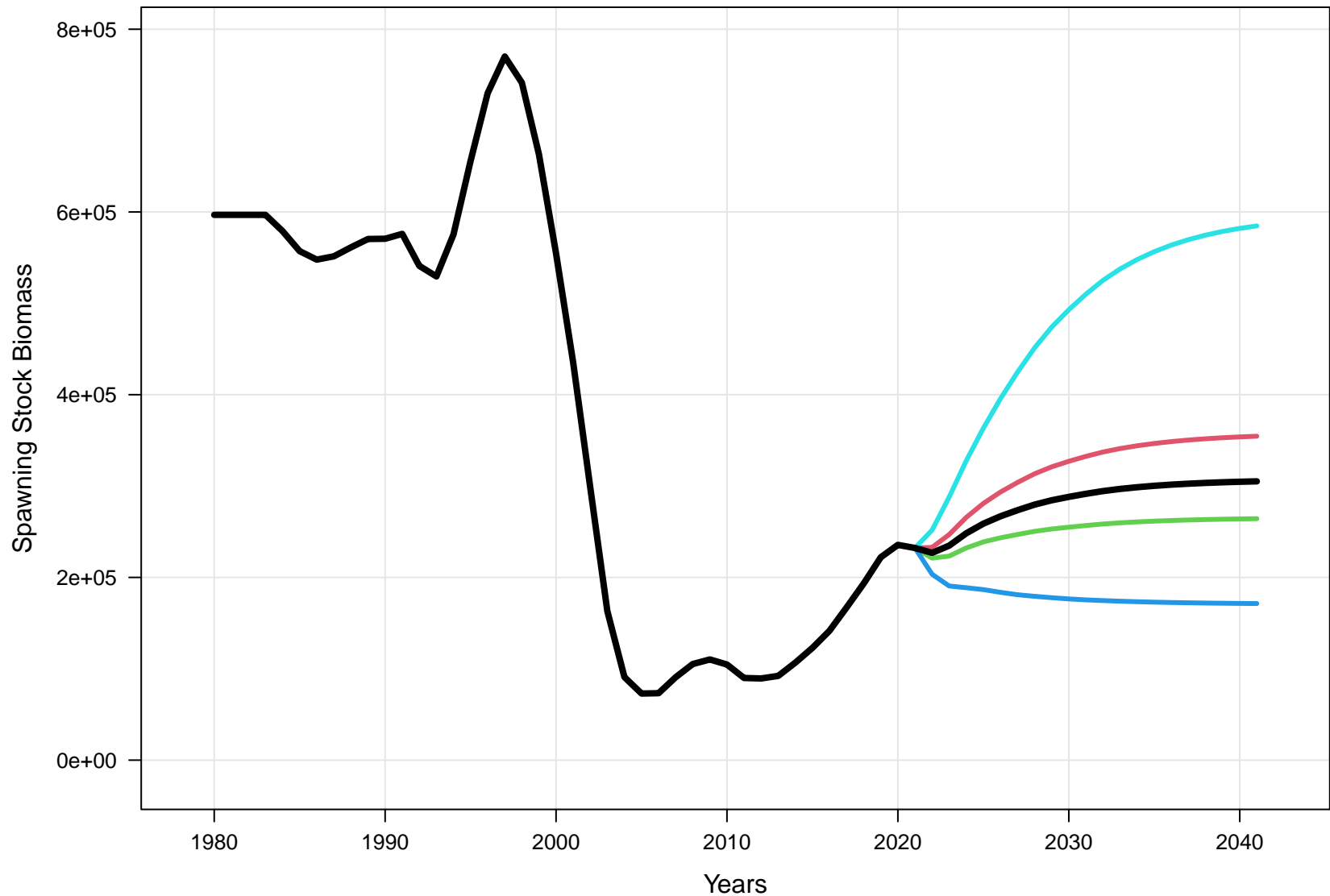
F2021 SQ

F2021 0.75x

F2021 1.25x

FMSY

F2021 0x



Catch prediction

F2021 SQ



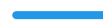
F2021 0.75x



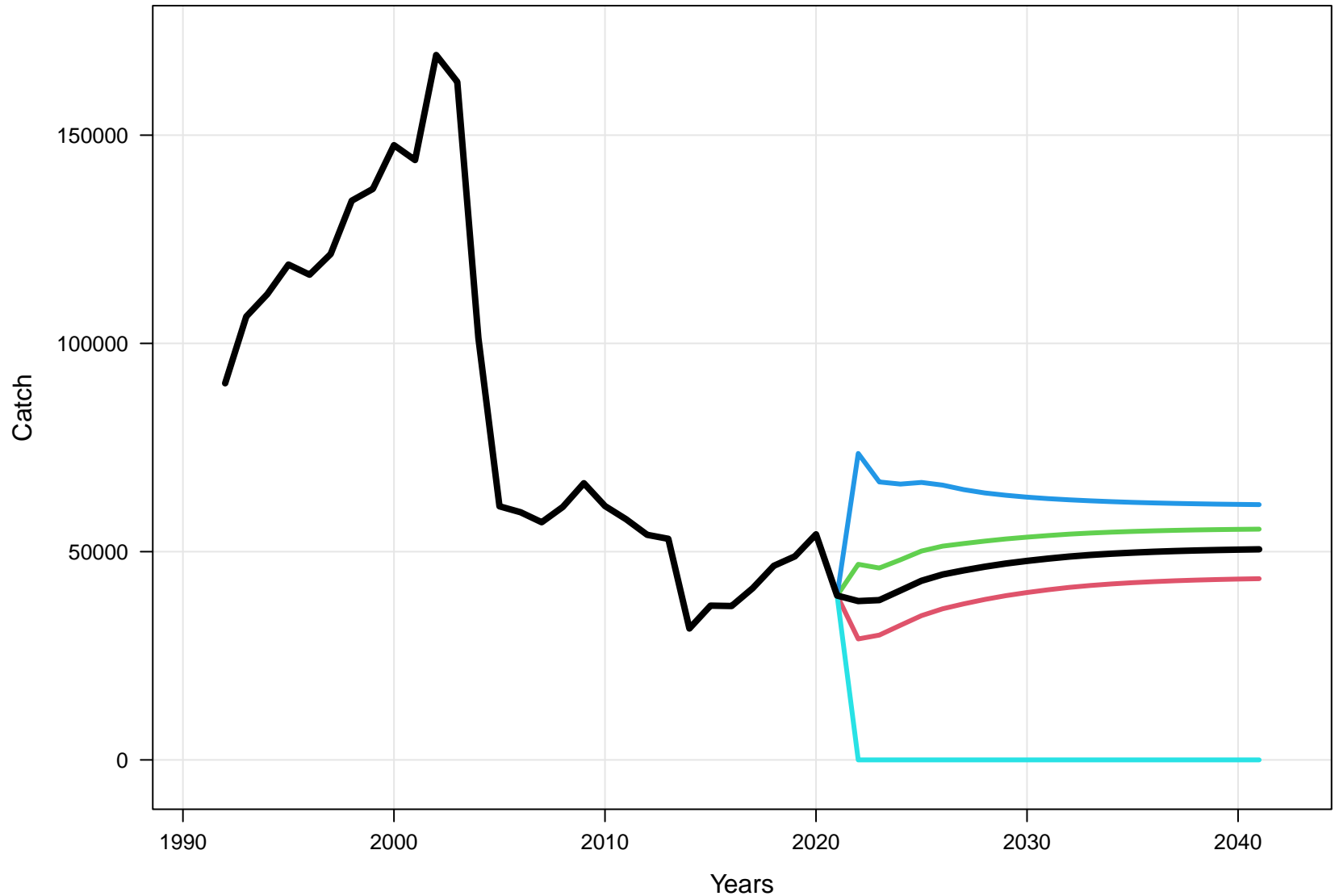
F2021 1.25x



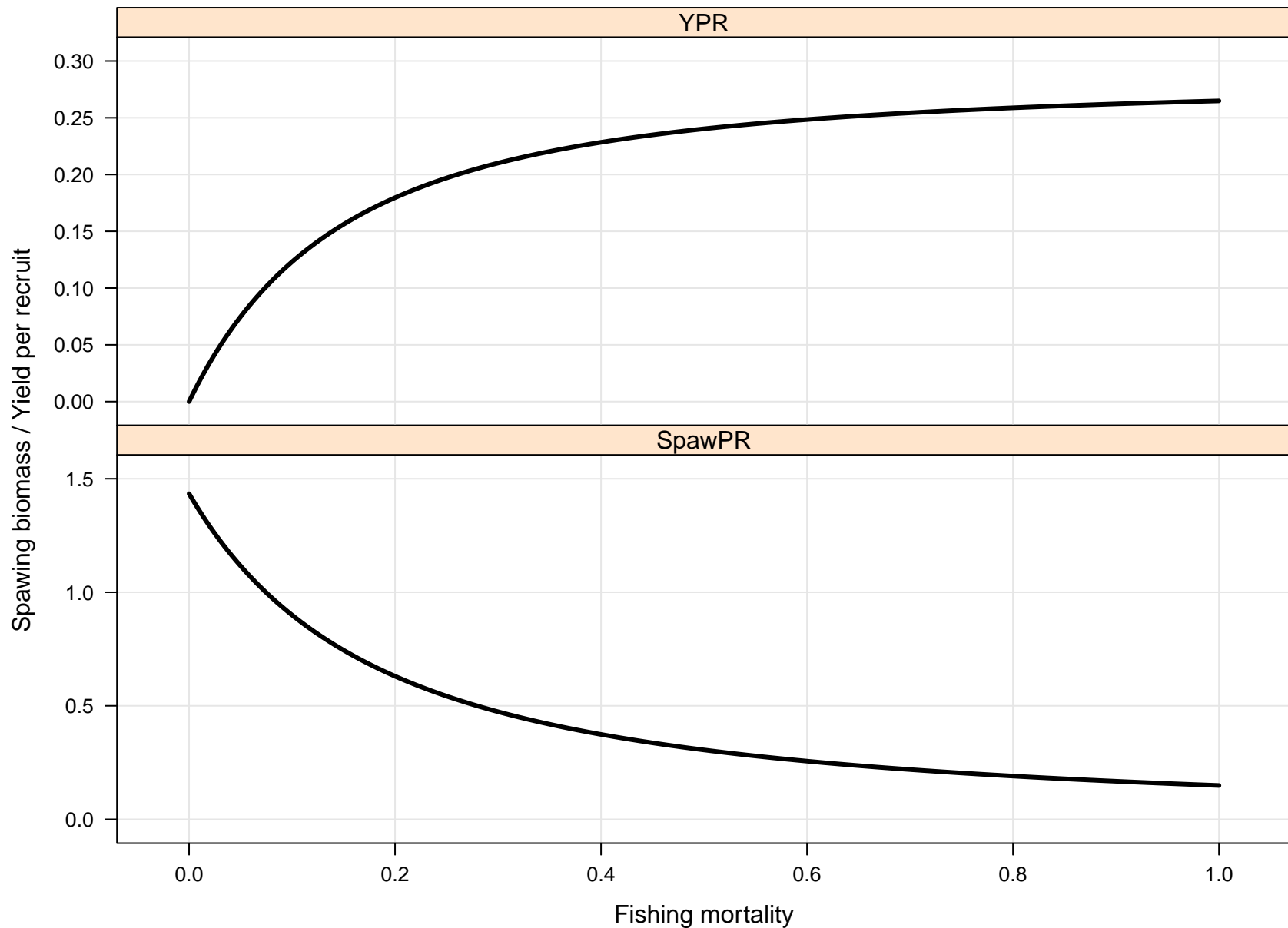
FMSY



F2021 0x



Yield and spawning stock biomass per recruit



Kobe plot

