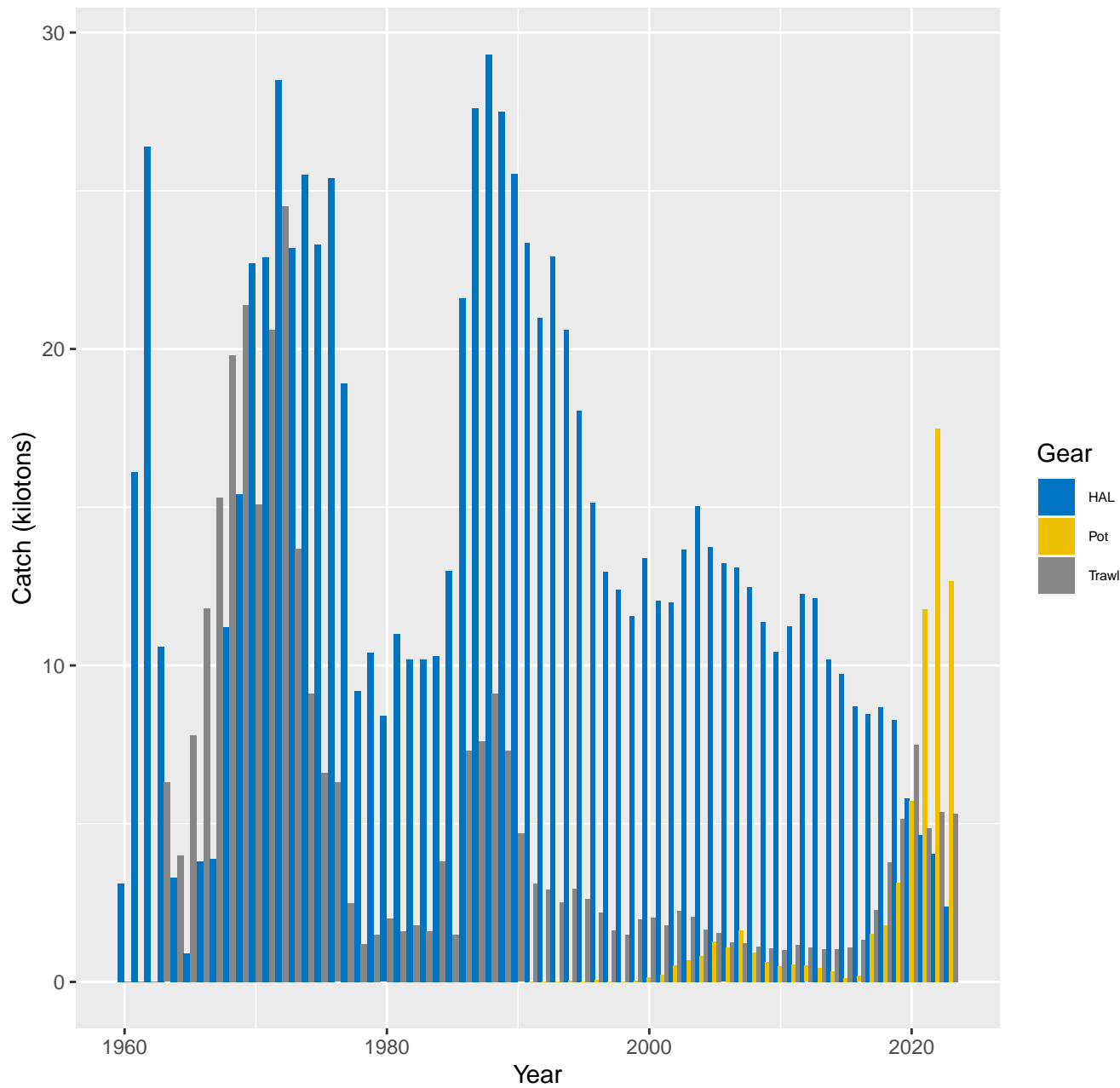
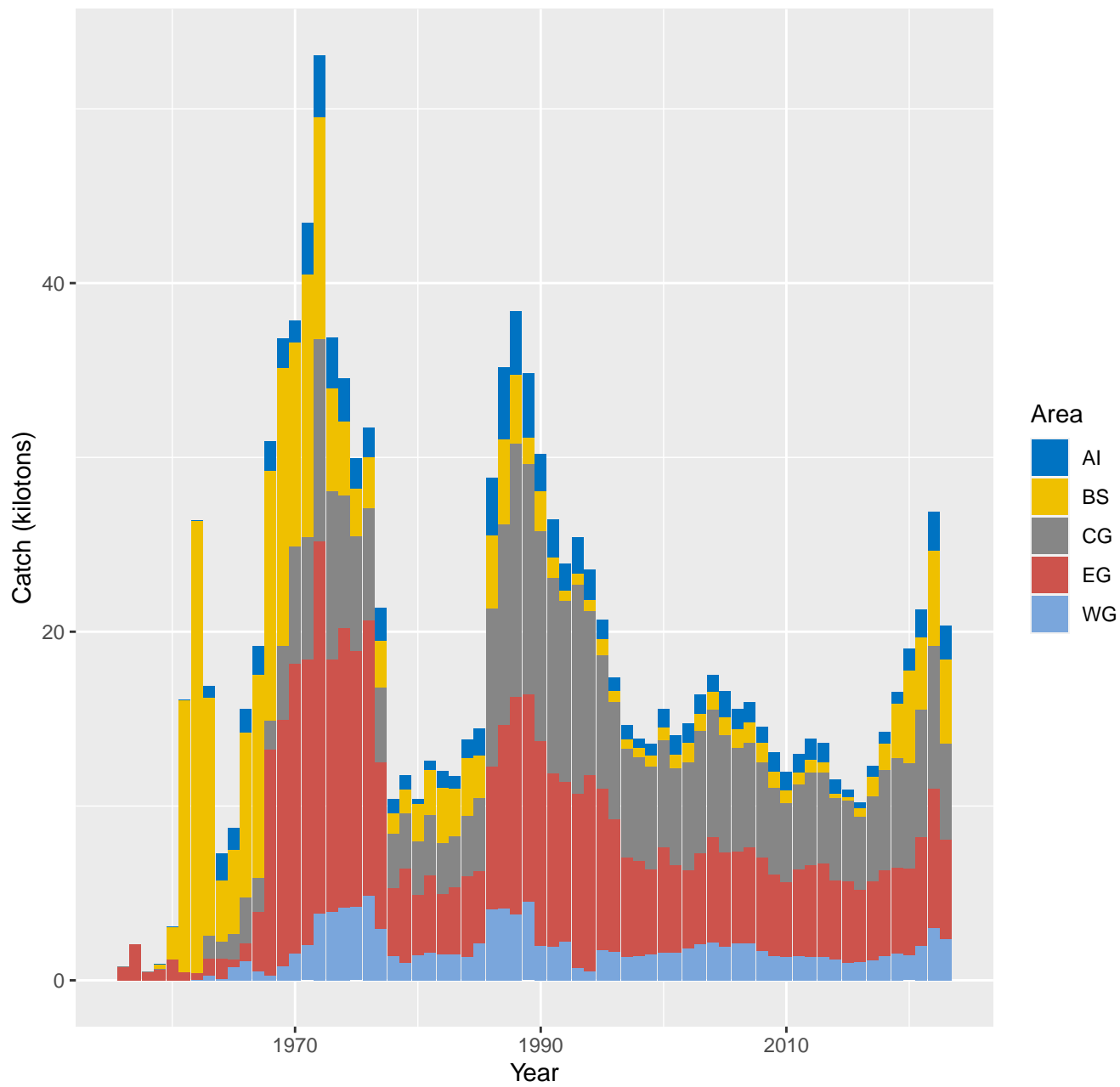


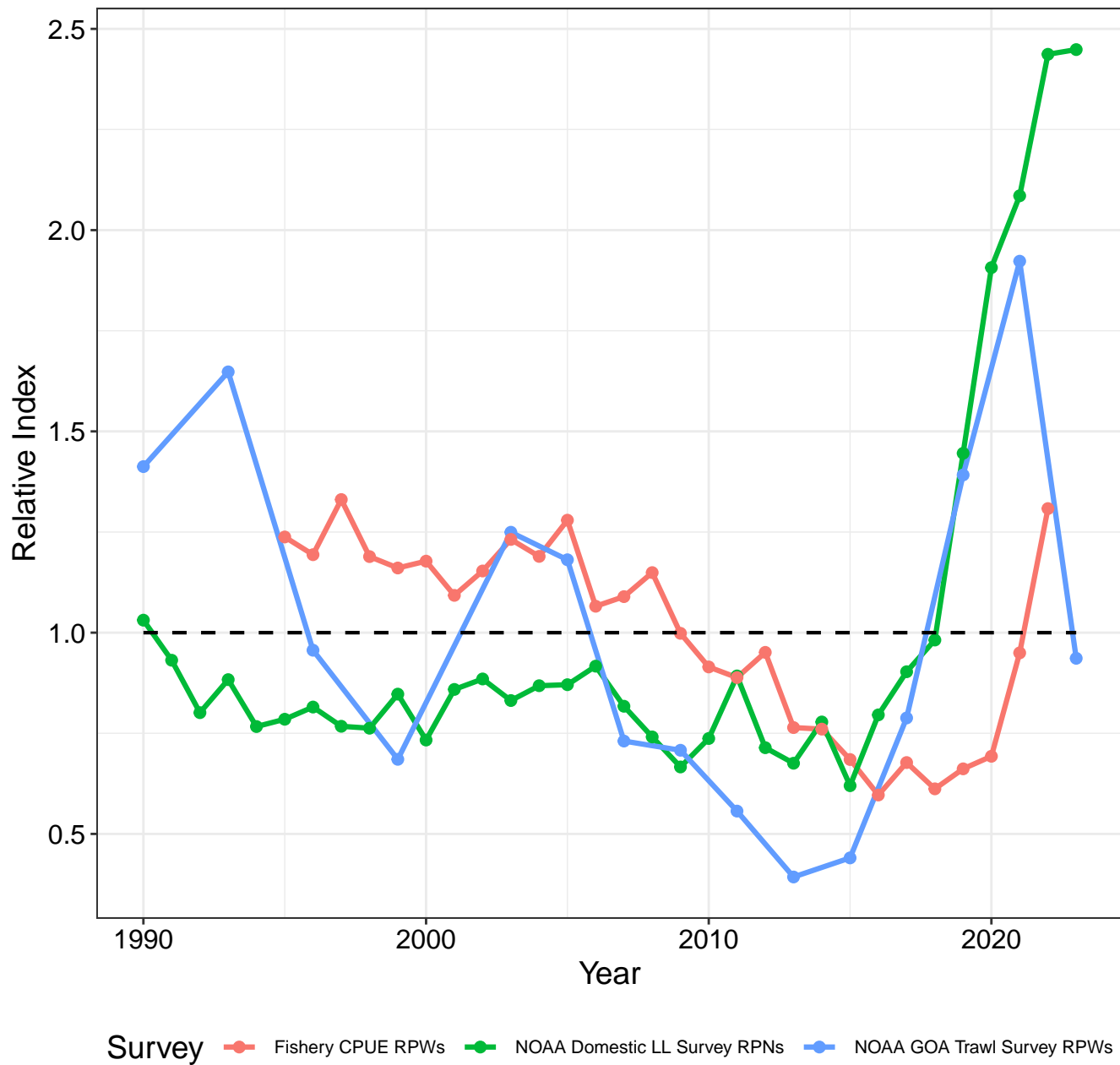
# Catch by Gear Type



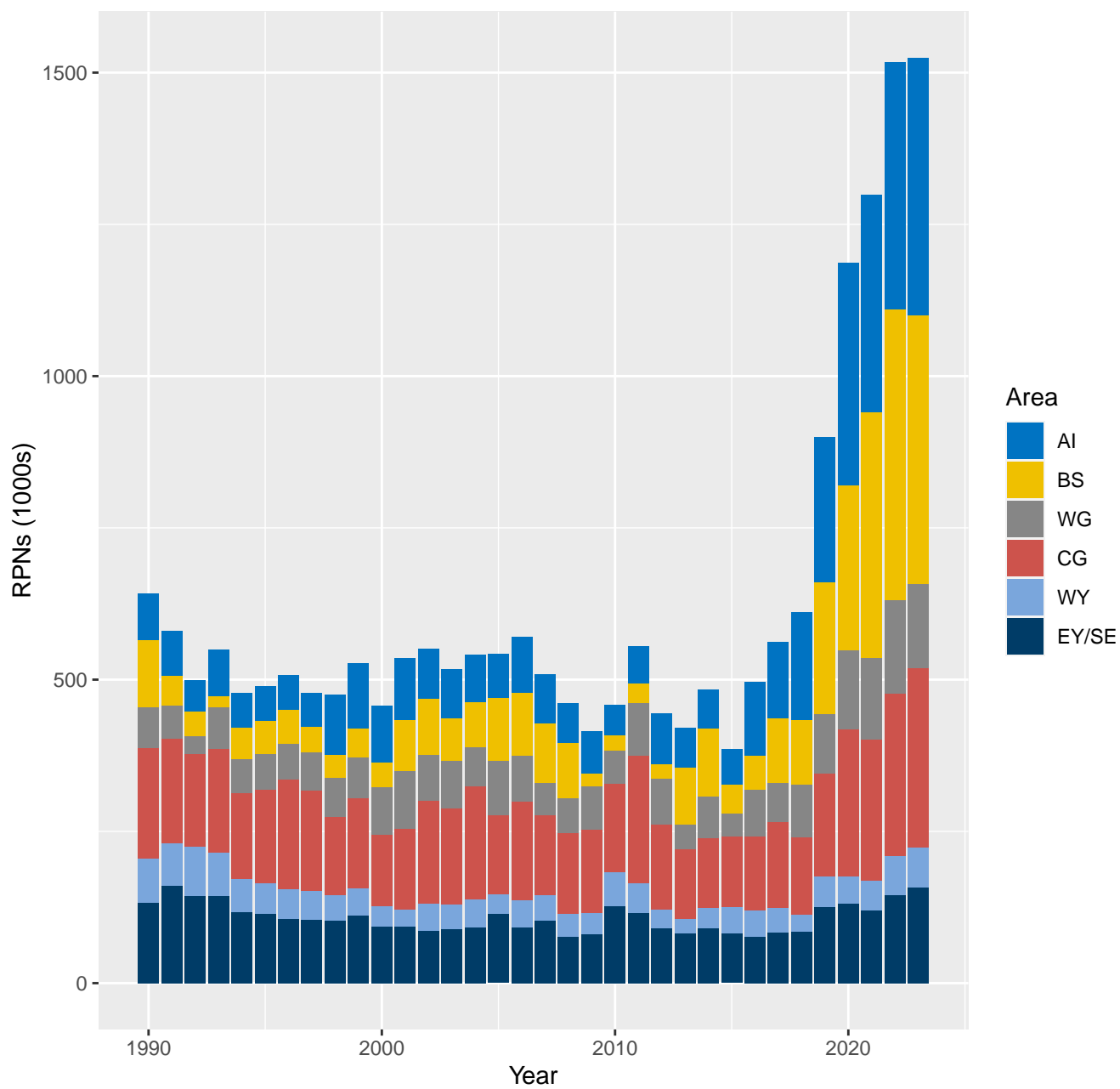
Catch by NPFMC Area



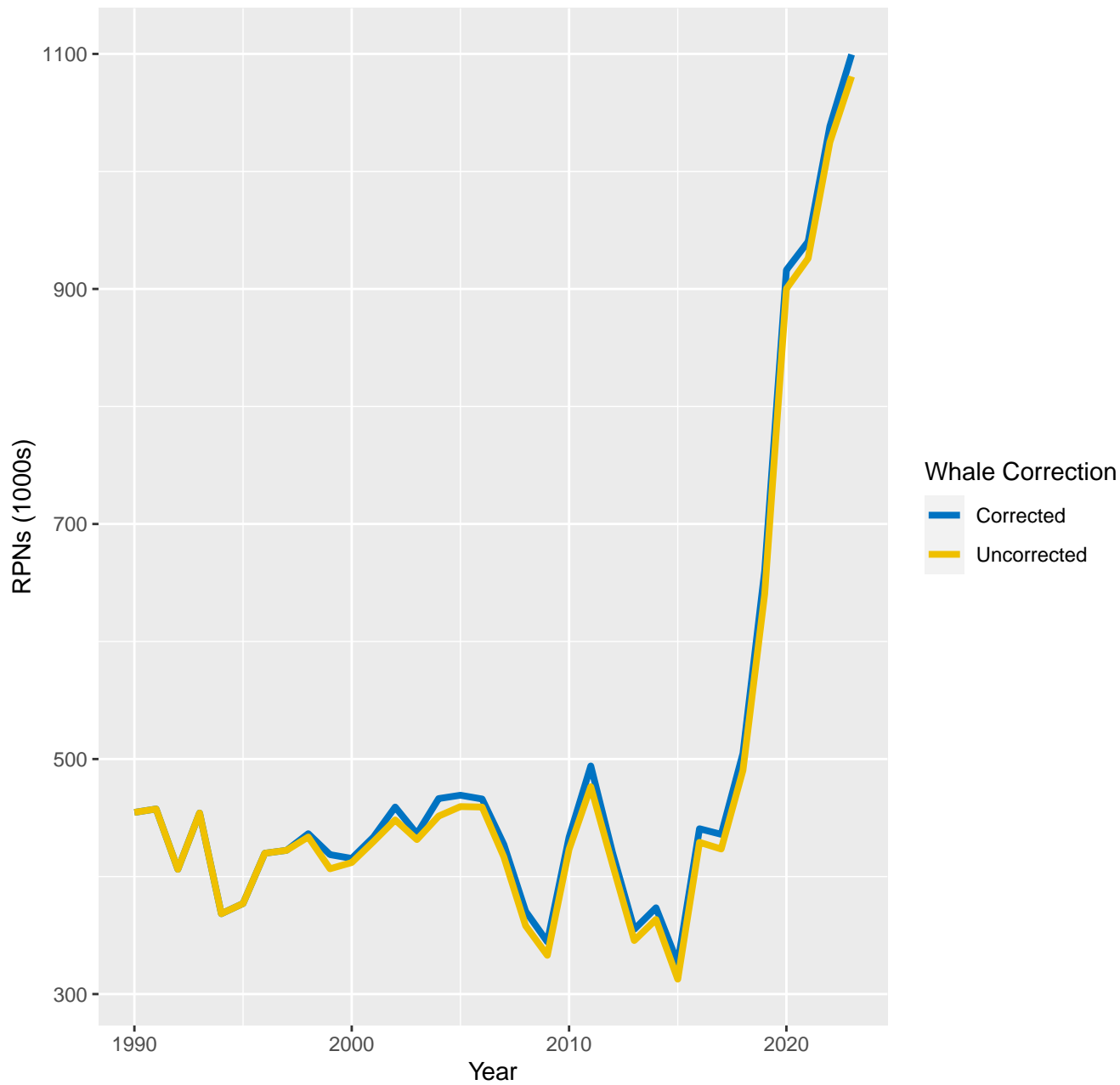
# Index Population Trends Used in the Assessment Model



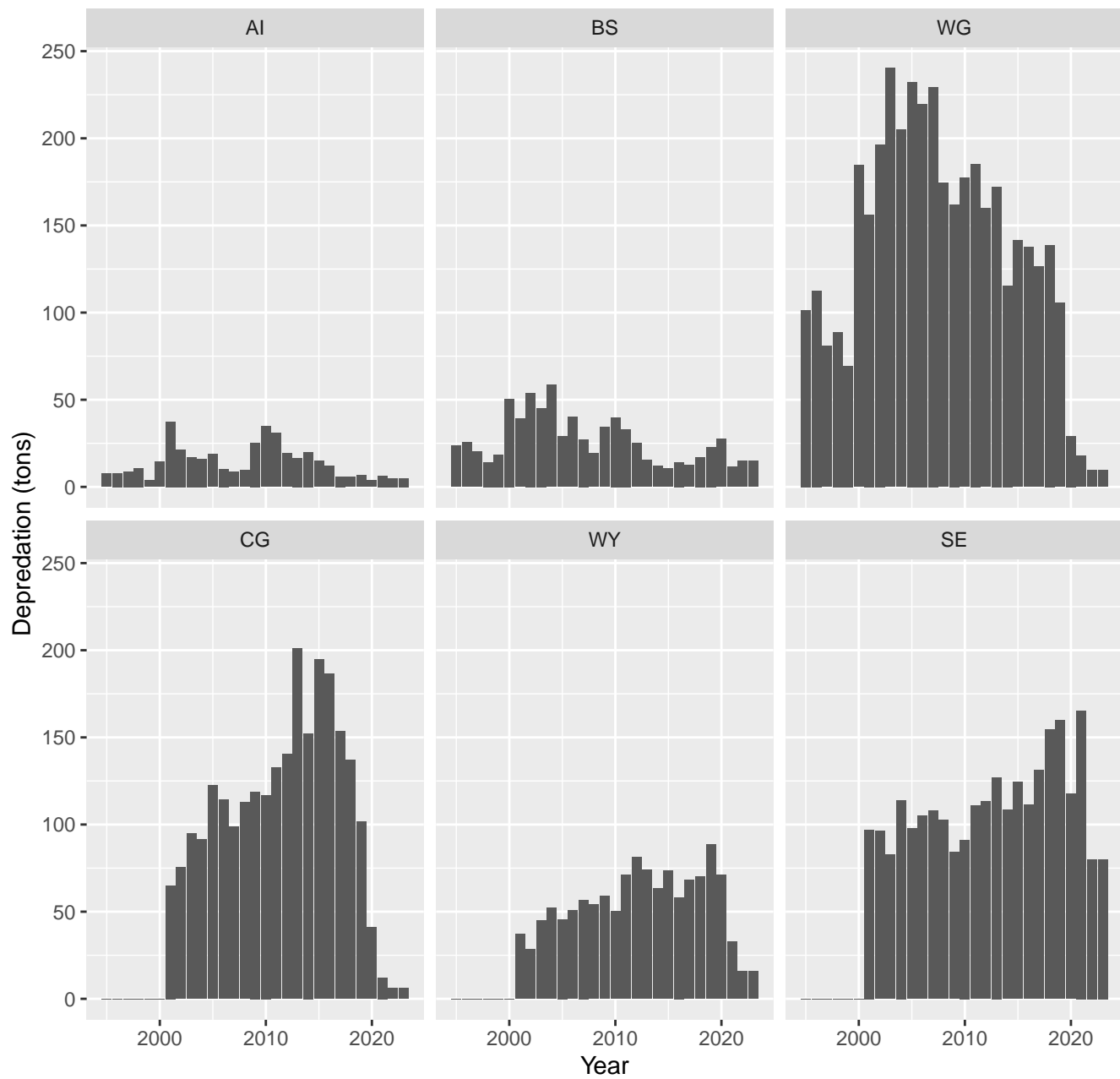
AFSC Longline Survey Relative Population Numbers (RPNs) by NPFMC Area

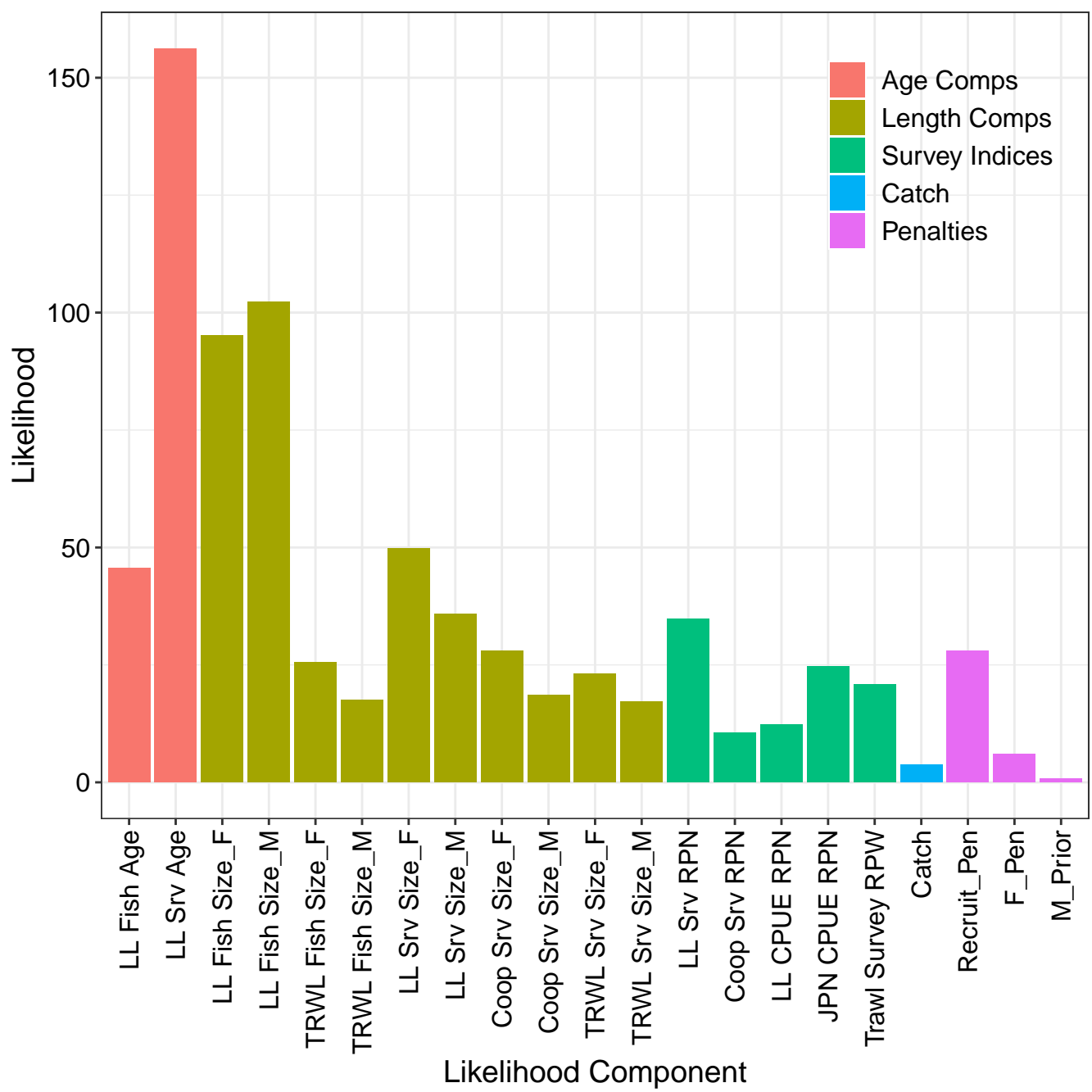


Impact of Whale Depredation Corrections on Longline Survey RPNs

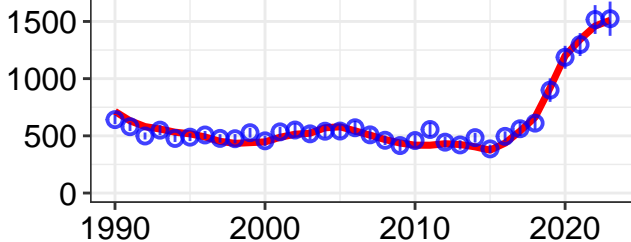


# Fishery Whale Depredation

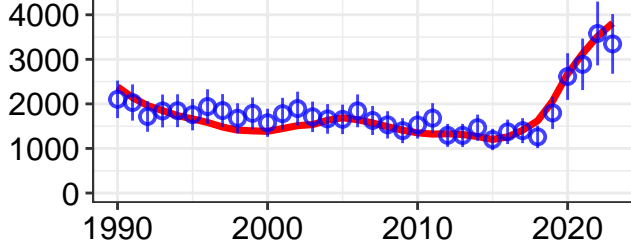




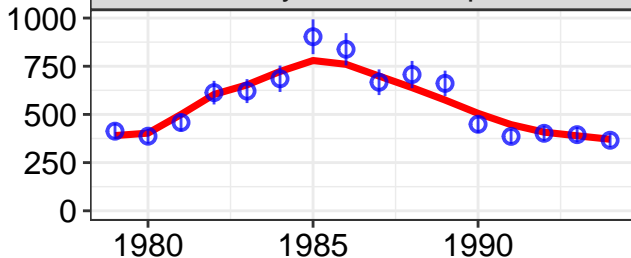
stic LL Survey Relative Population Nur



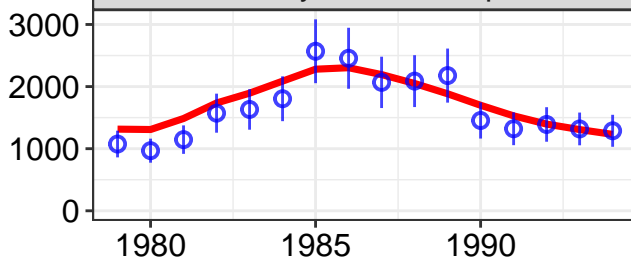
stic LL Survey Relative Population W



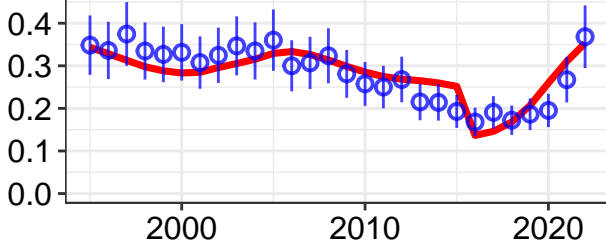
ese LL Survey Relative Population Nur



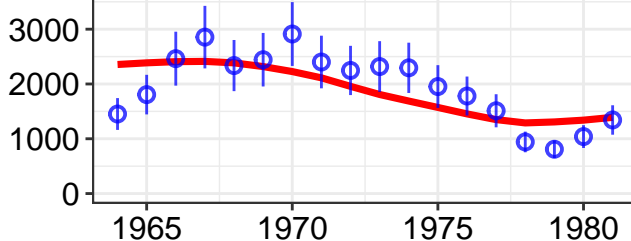
nese LL Survey Relative Population W



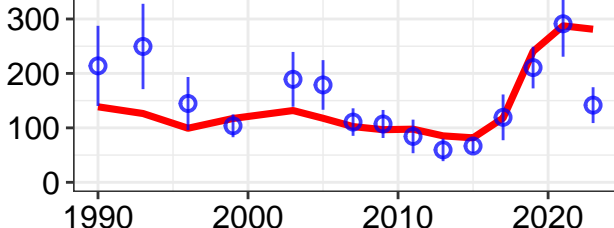
Domestic Fishery CPUE Index



Japanese Fishery CPUE Index



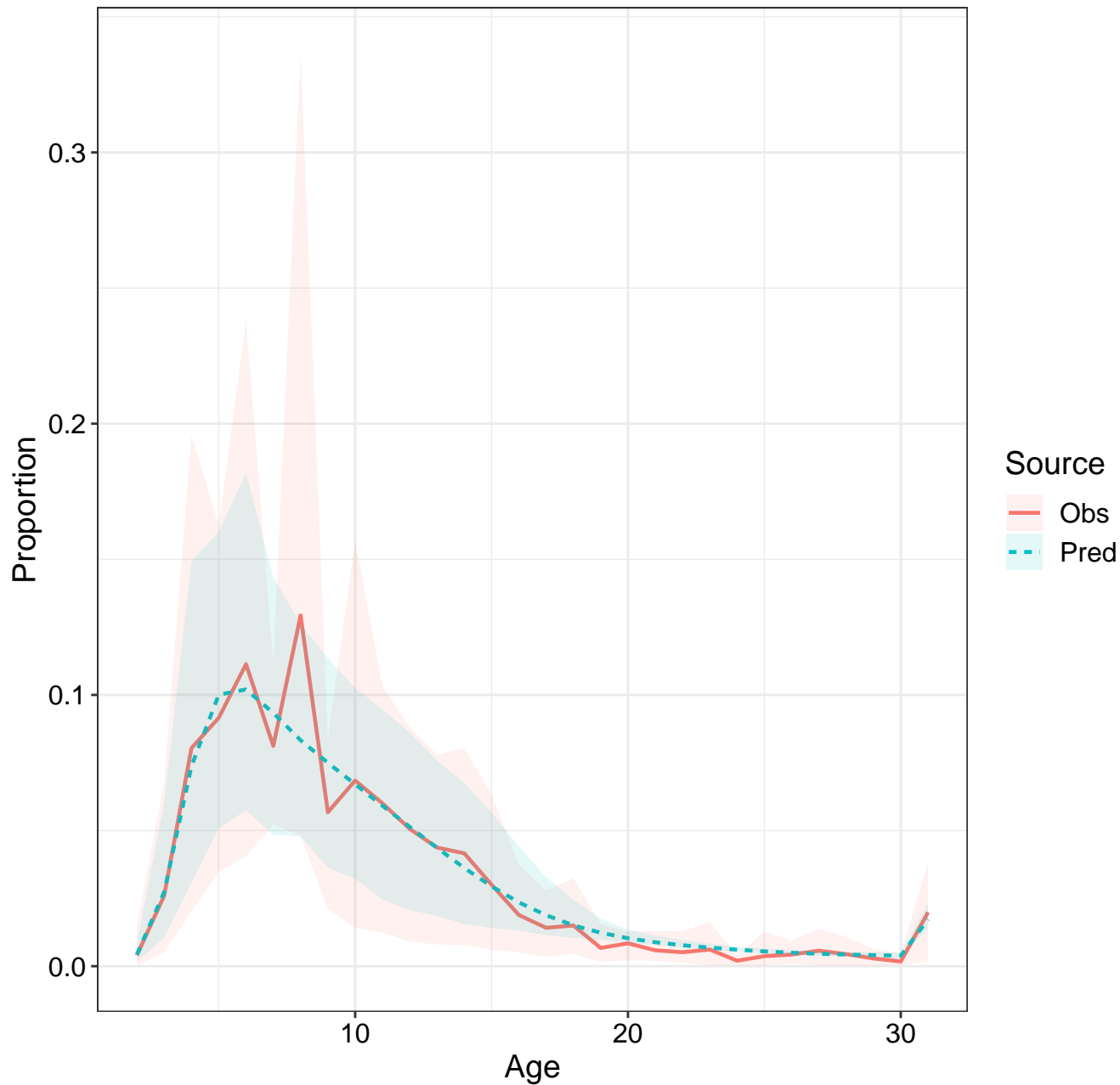
GOA Trawl Survey Biomass (kt)



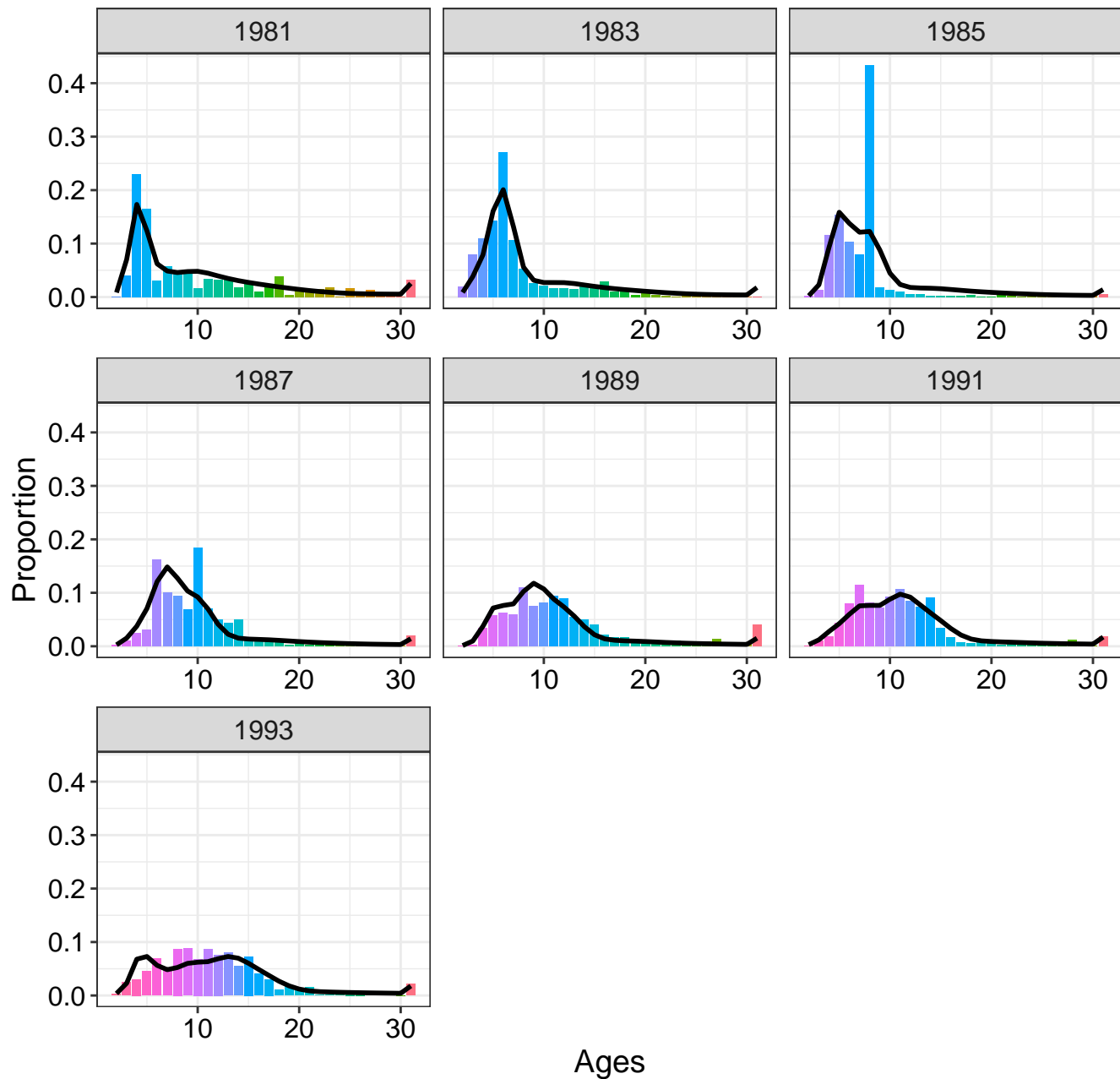
Year



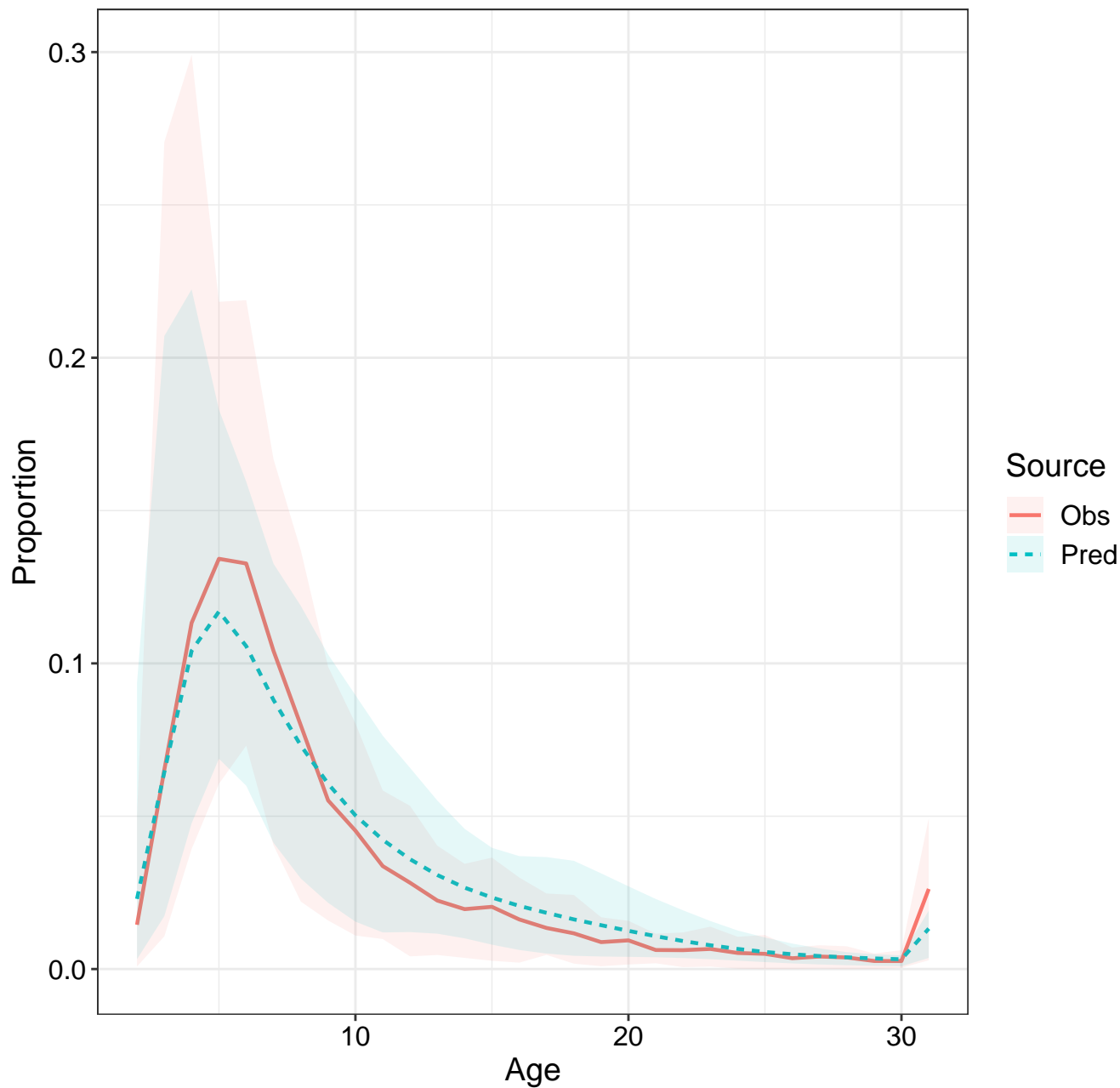
Japanese Coop LL Survey Aggregated Age Compositions



# Japanese Coop LL Survey Age Compositions

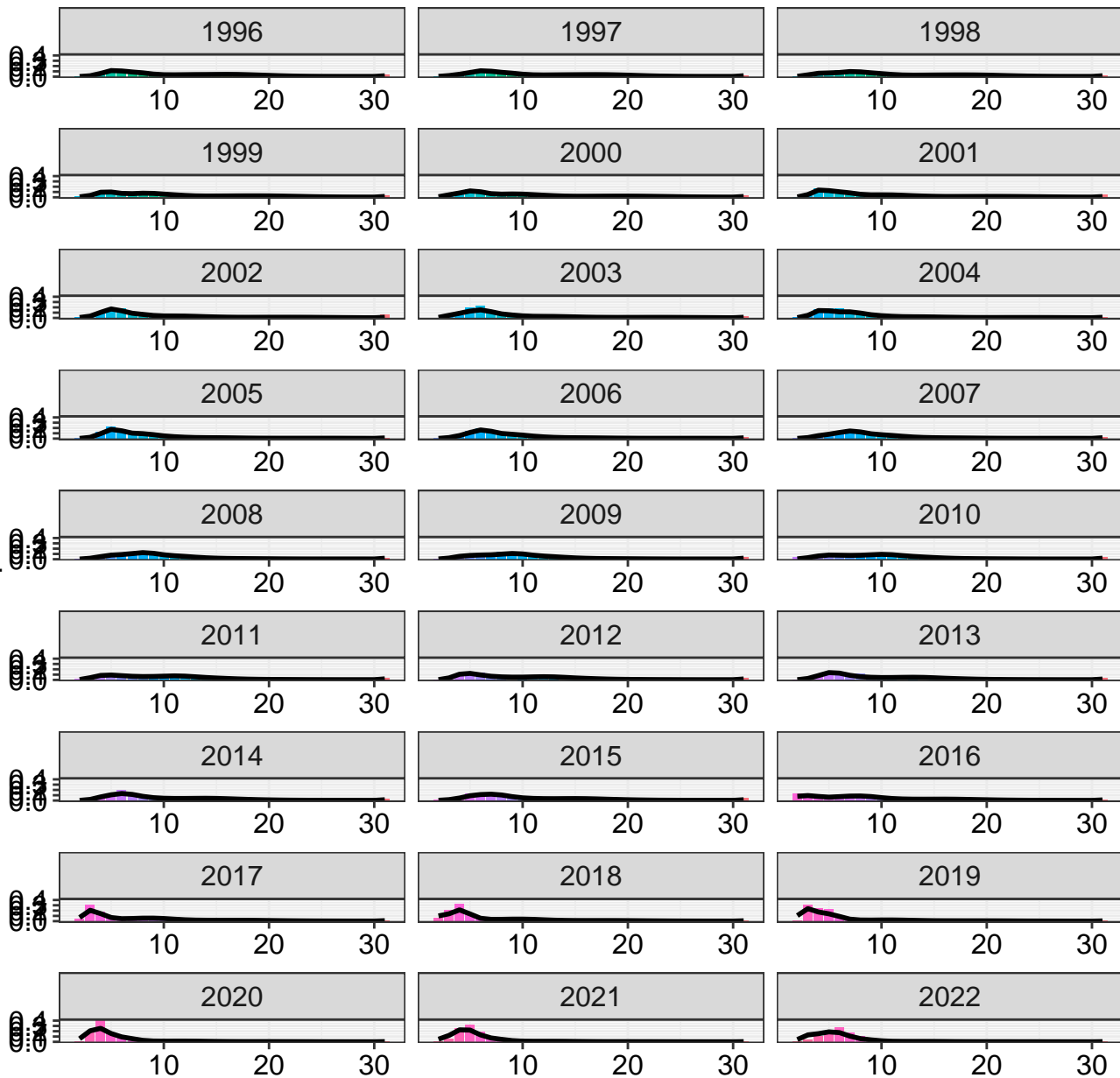


NOAA Domestic LL Survey Aggregated Age Compositions



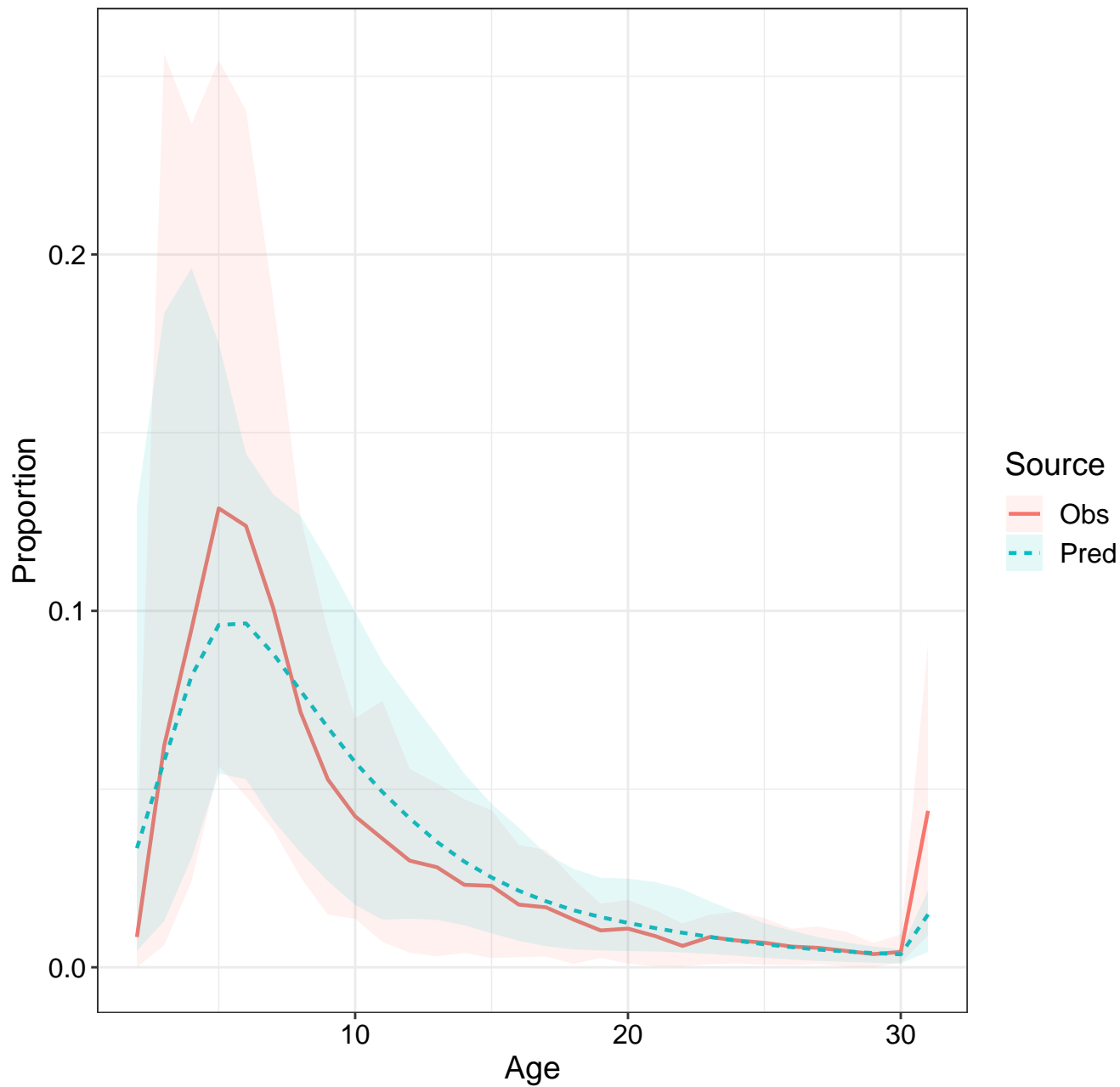
# NOAA Domestic LL Survey Age Compositions

Proportion

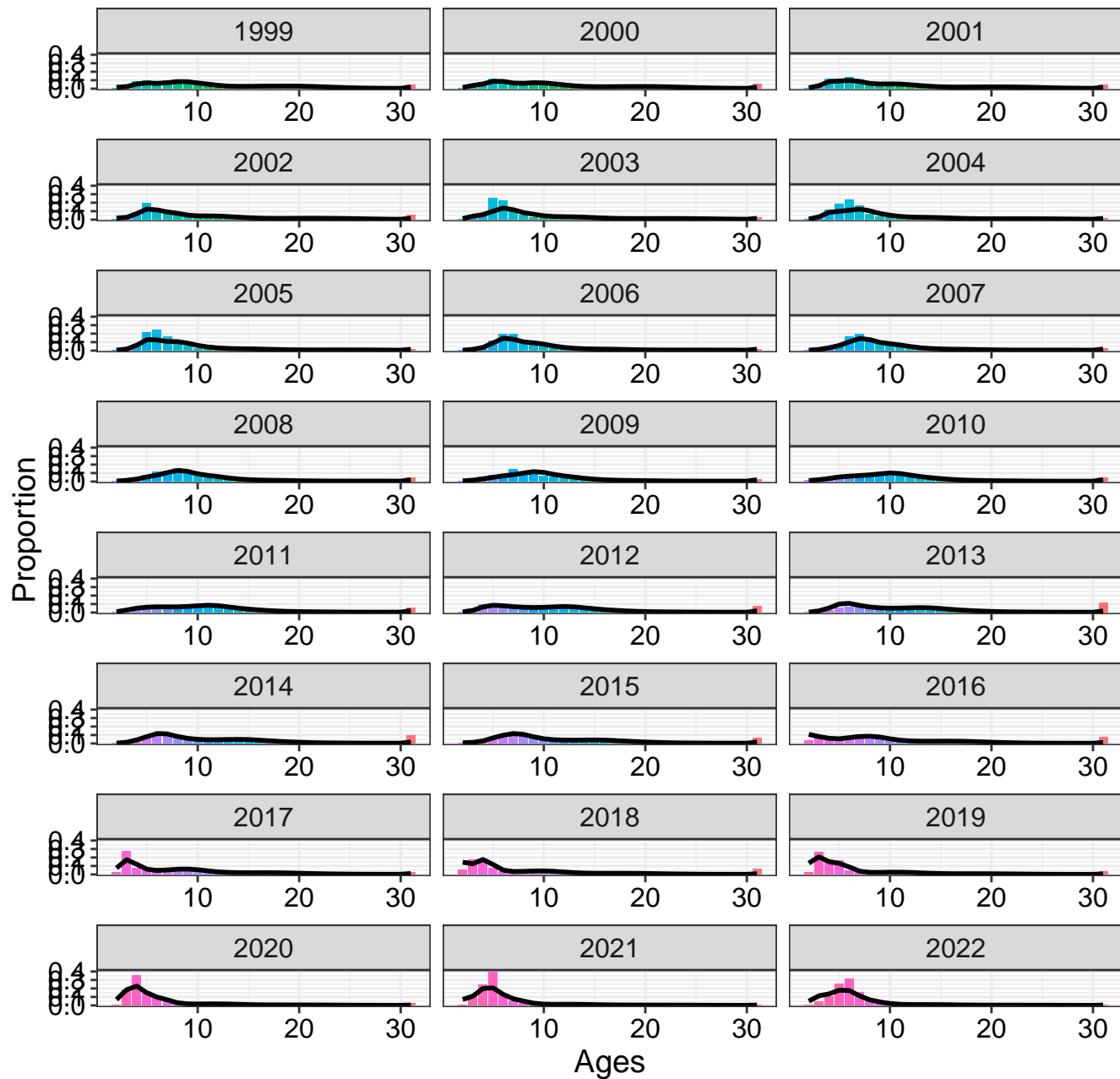


Ages

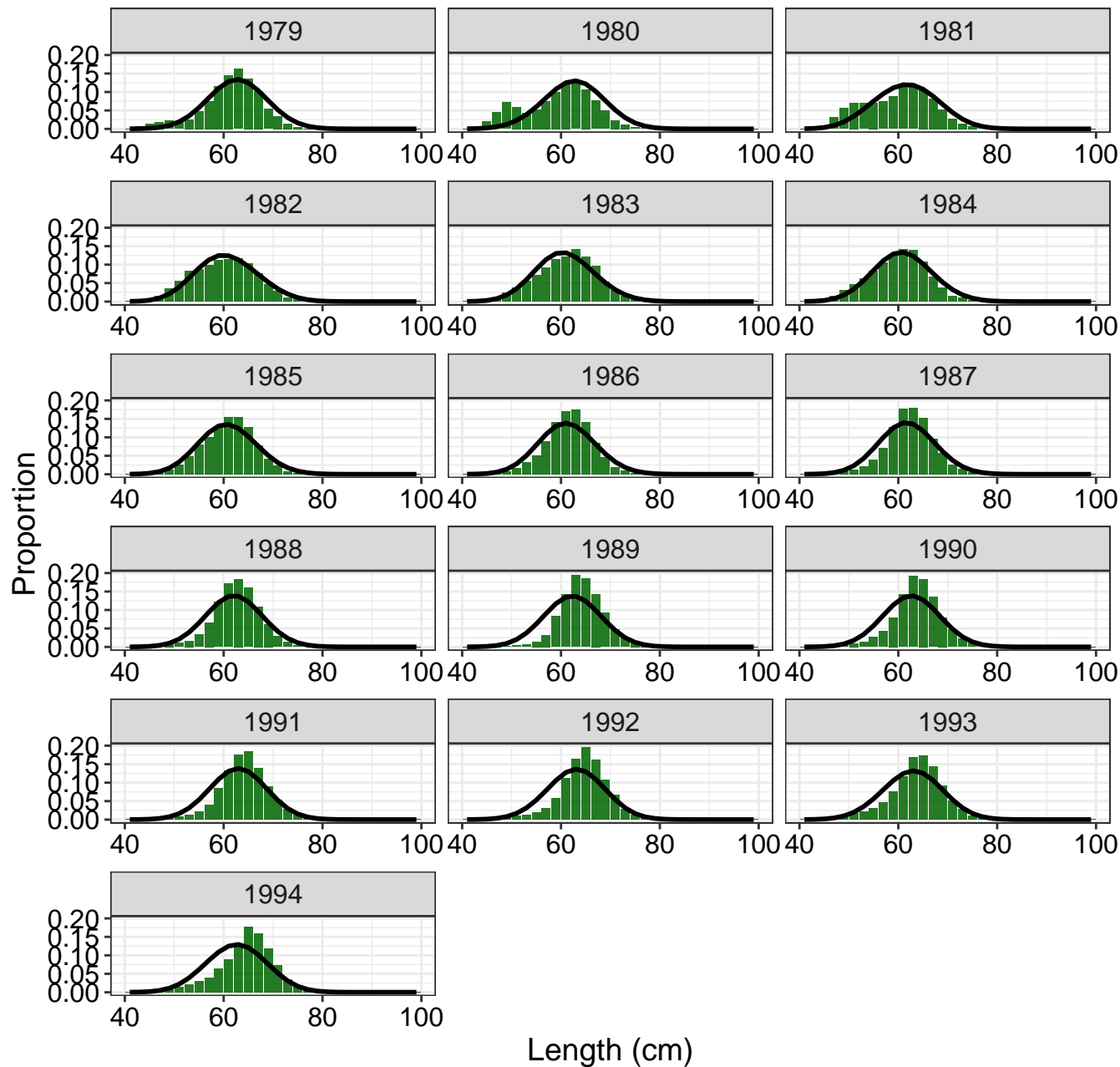
Fixed Gear Fishery Aggregated Age Compositions



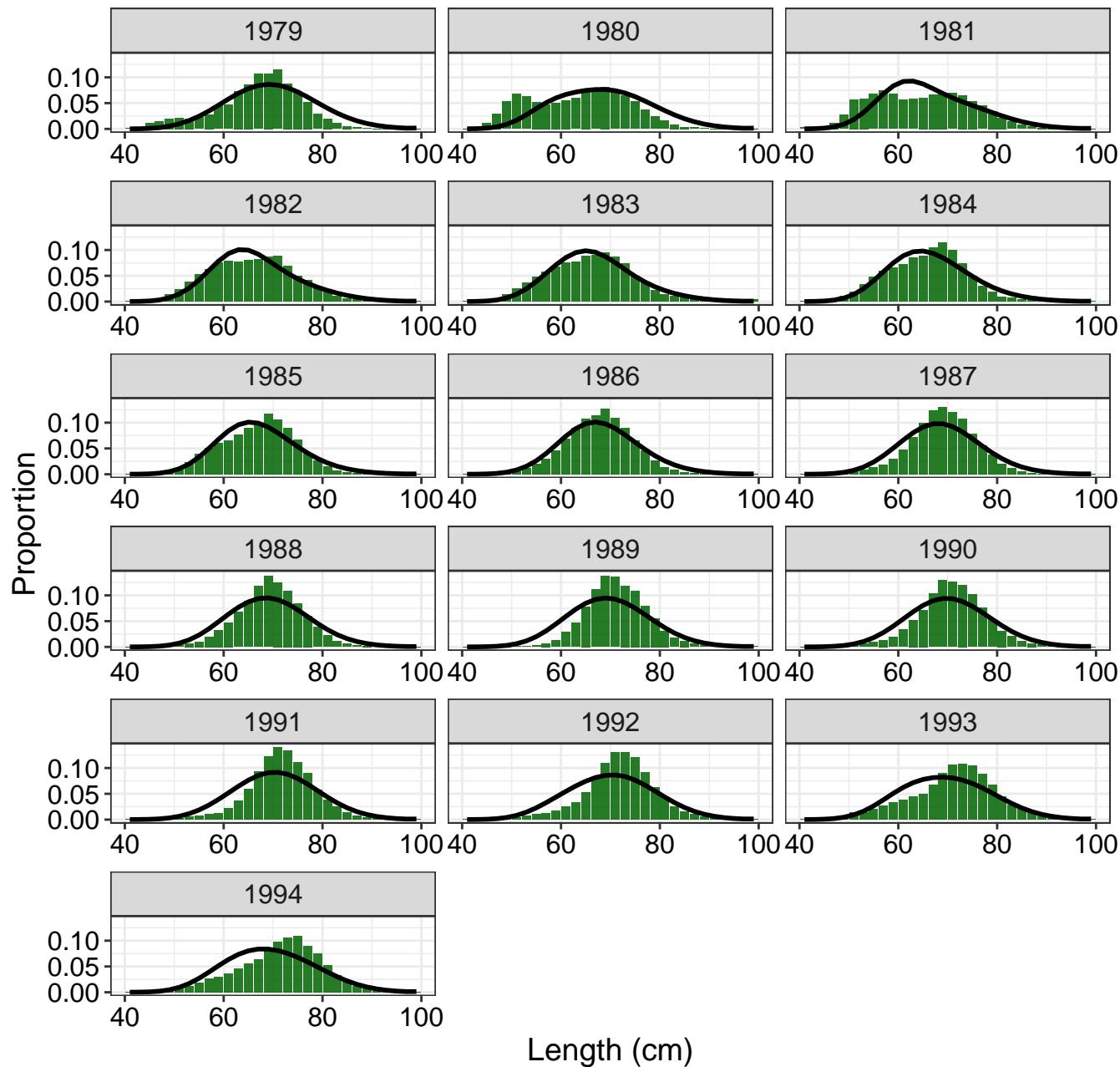
# Domestic LL Fishery Age Compositions



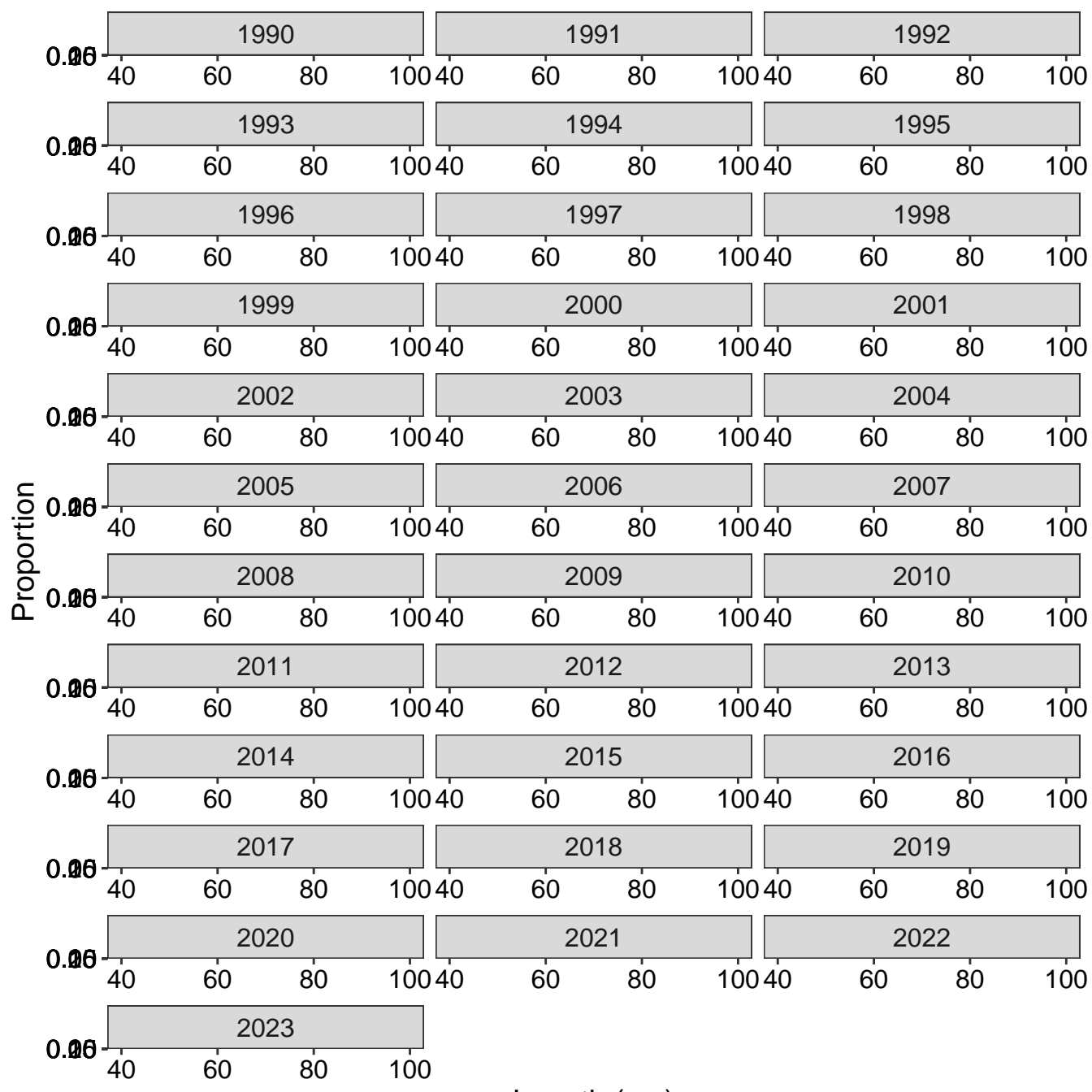
# Japanese Coop LL Survey Length Compositions (Male)

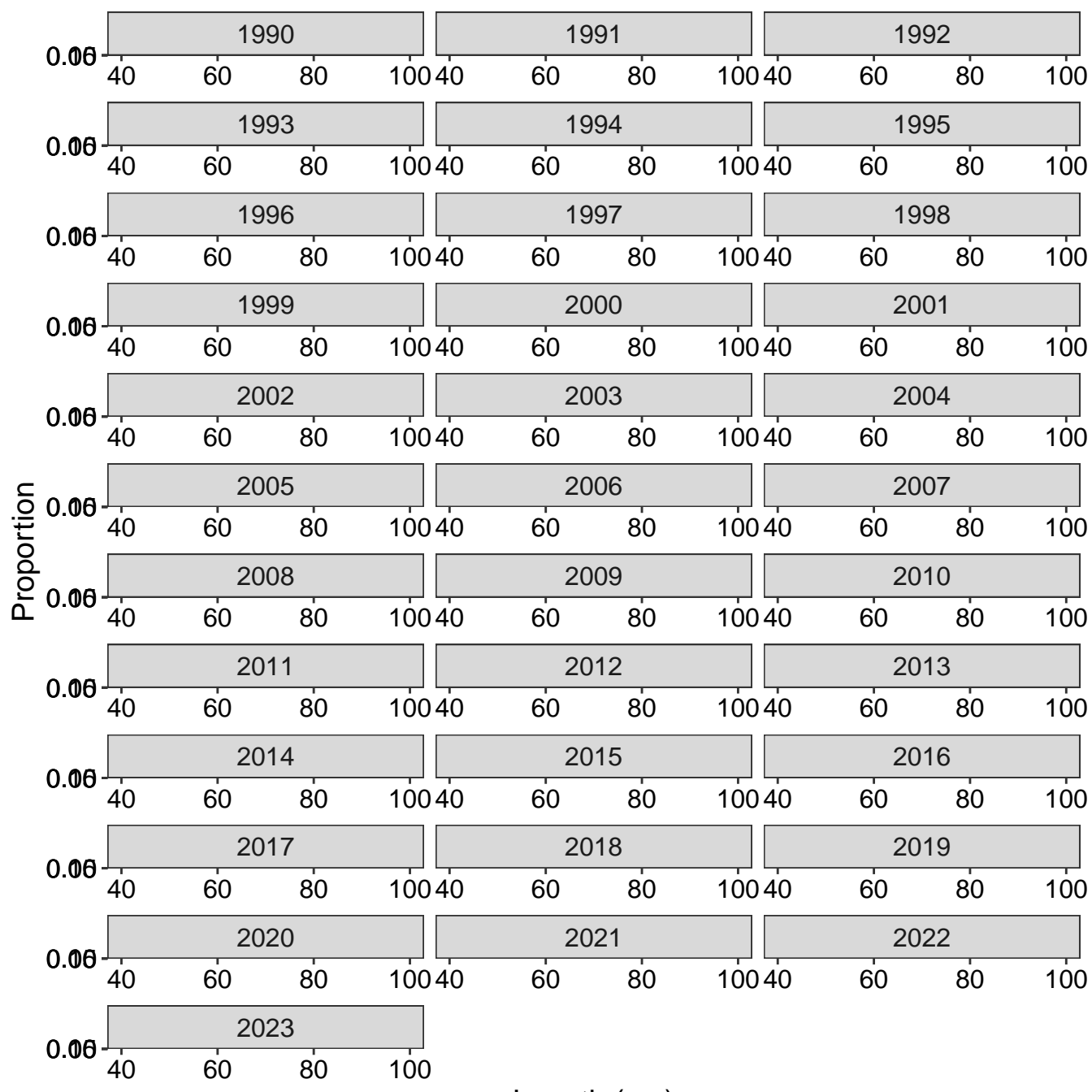


# Japanese Coop LL Survey Length Compositions (Female)



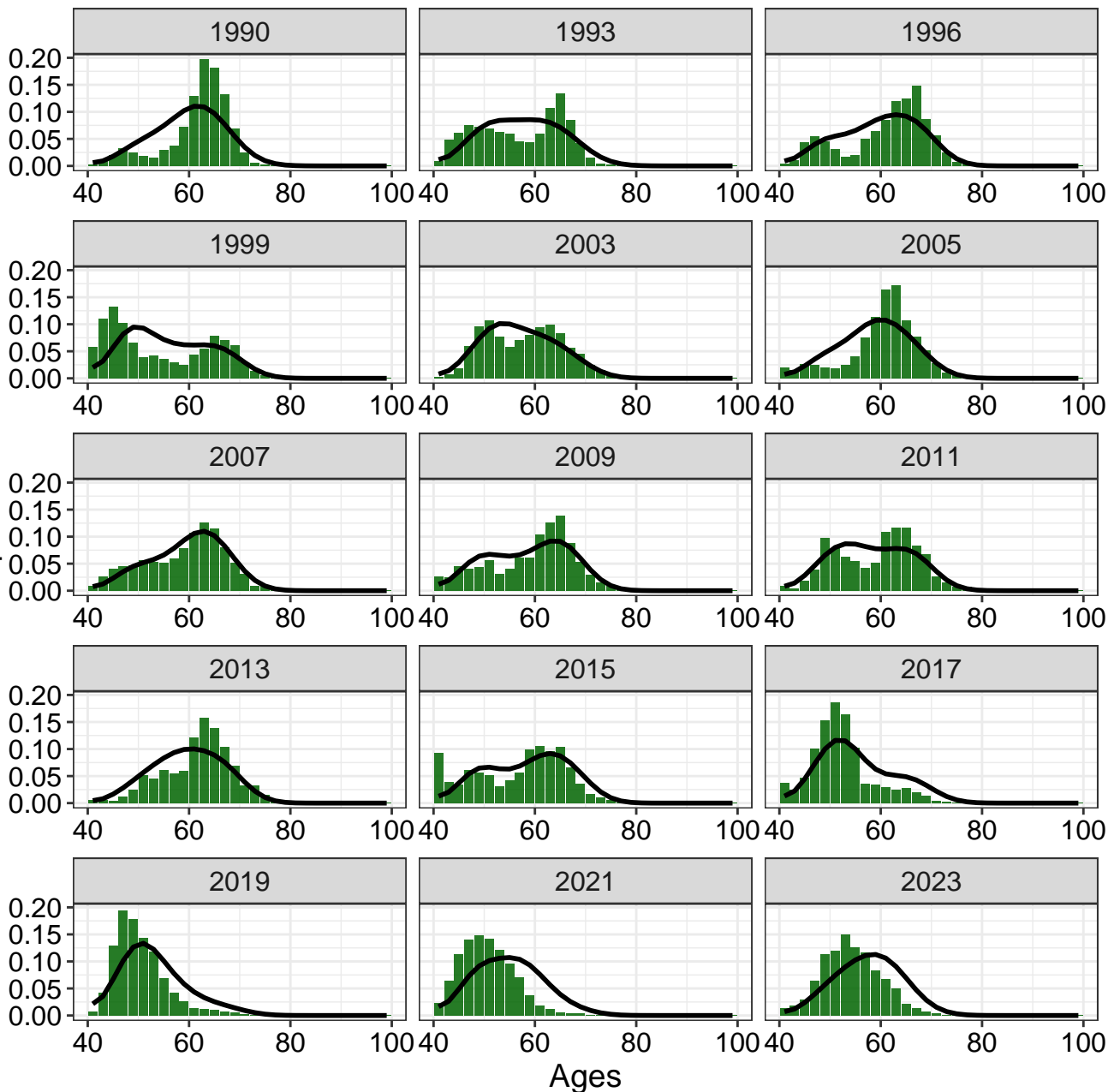






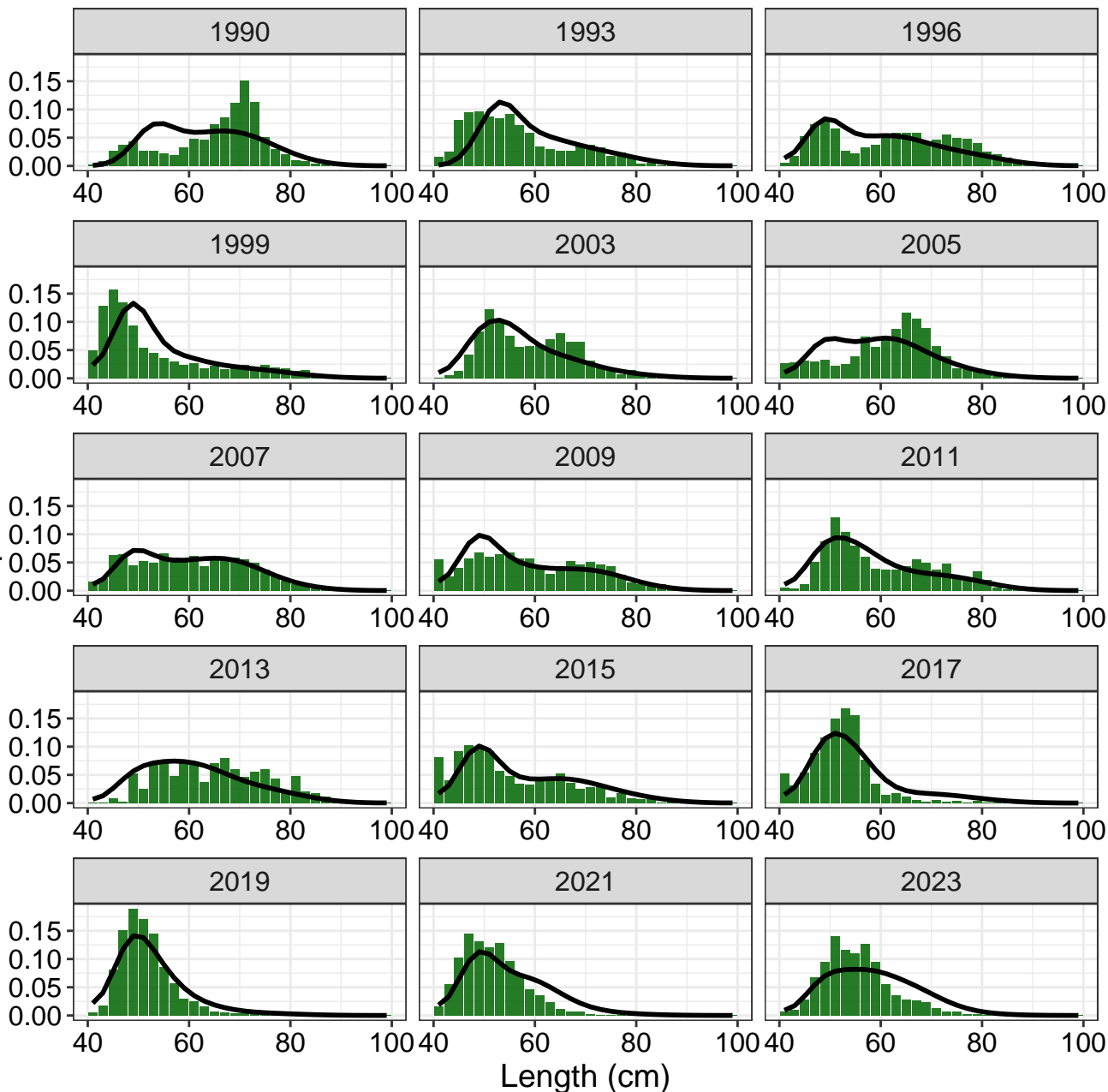
# NOAA GOA Trawl Survey Length Compositions (Male)

Proportion

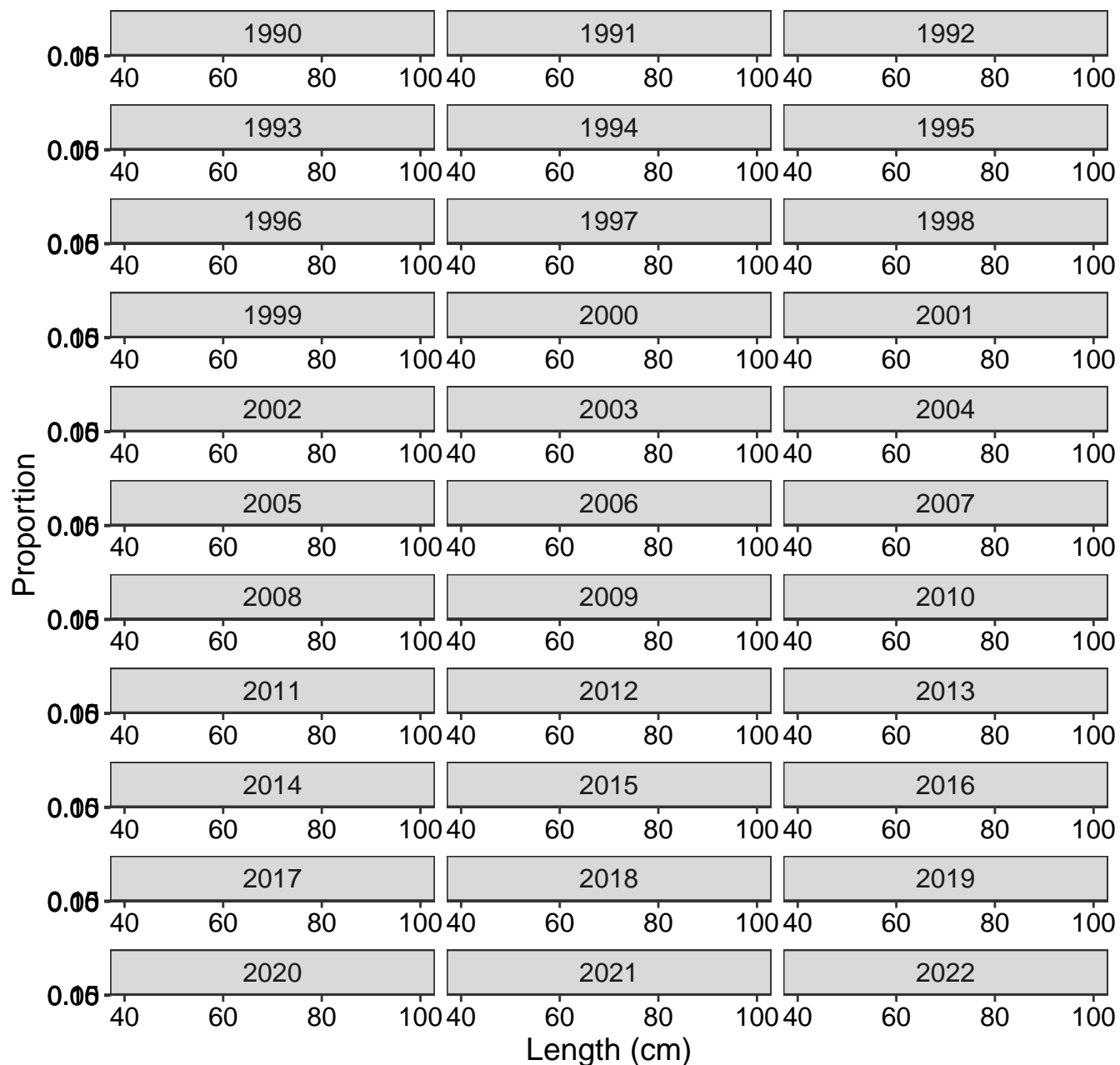


# NOAA GOA Trawl Survey Length Compositions (Female)

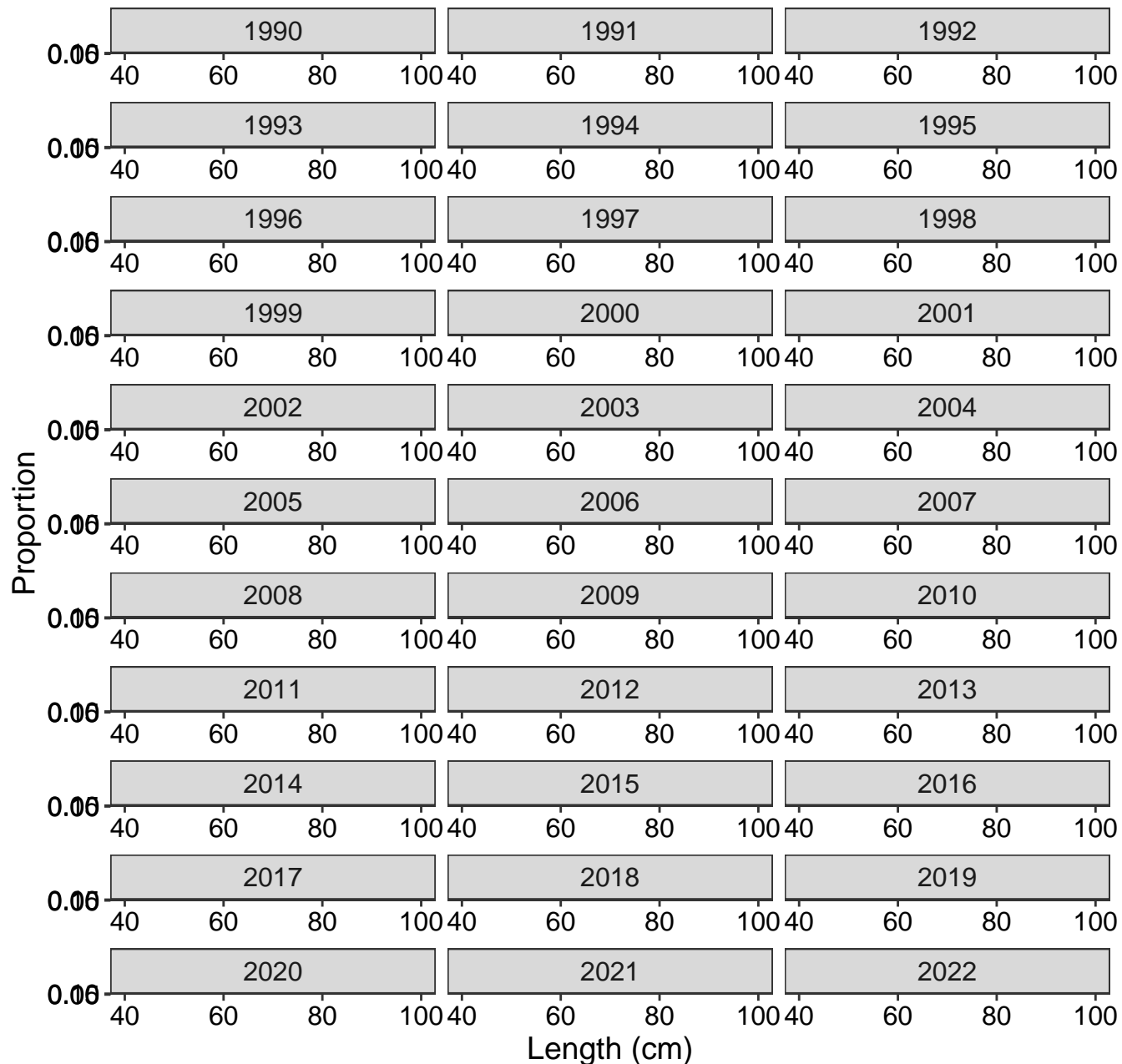
Proportion



# Fixed Gear Fishery Length Compositions (Male)

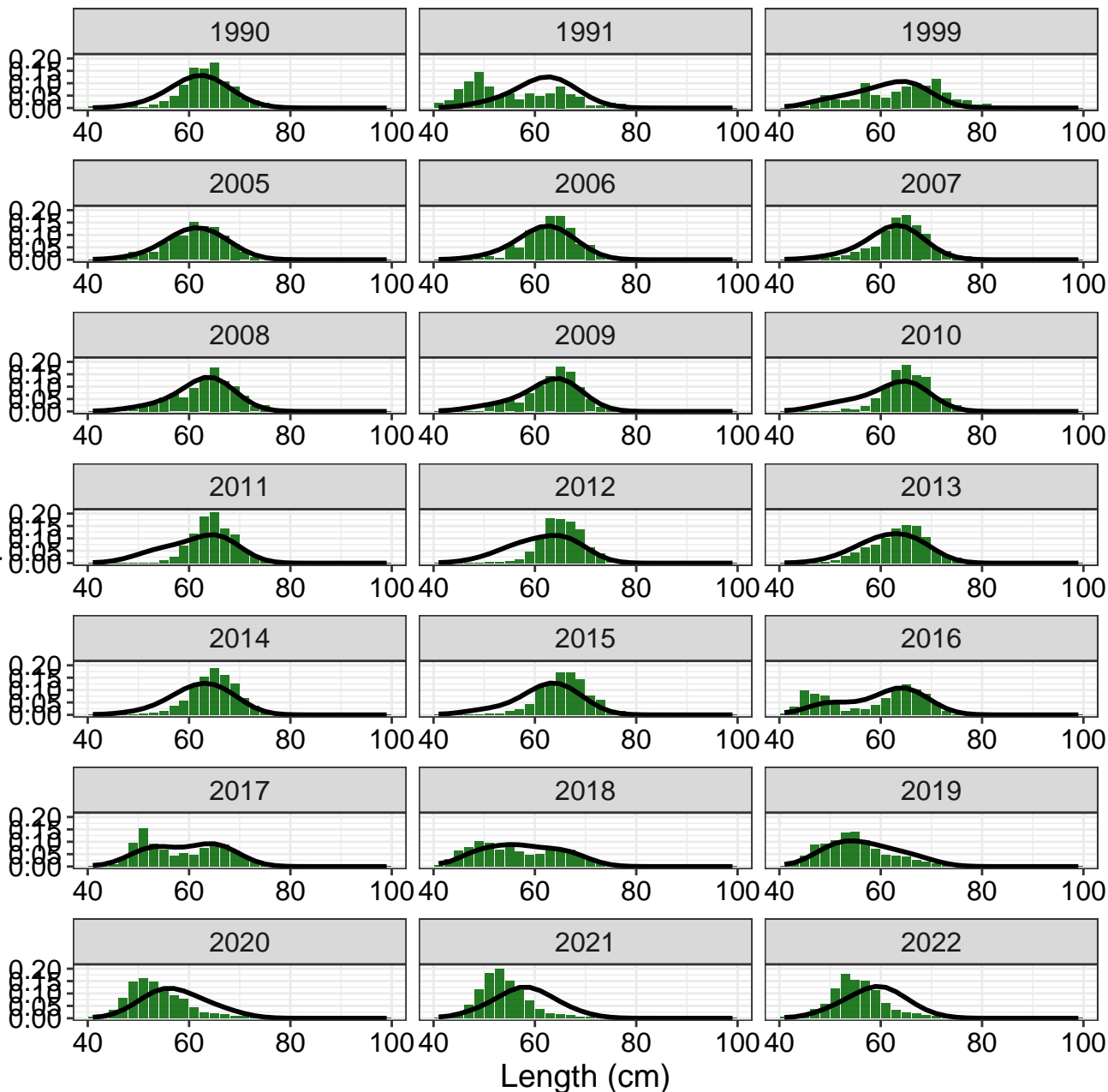


# Fixed Gear Fishery Length Compositions (Female)



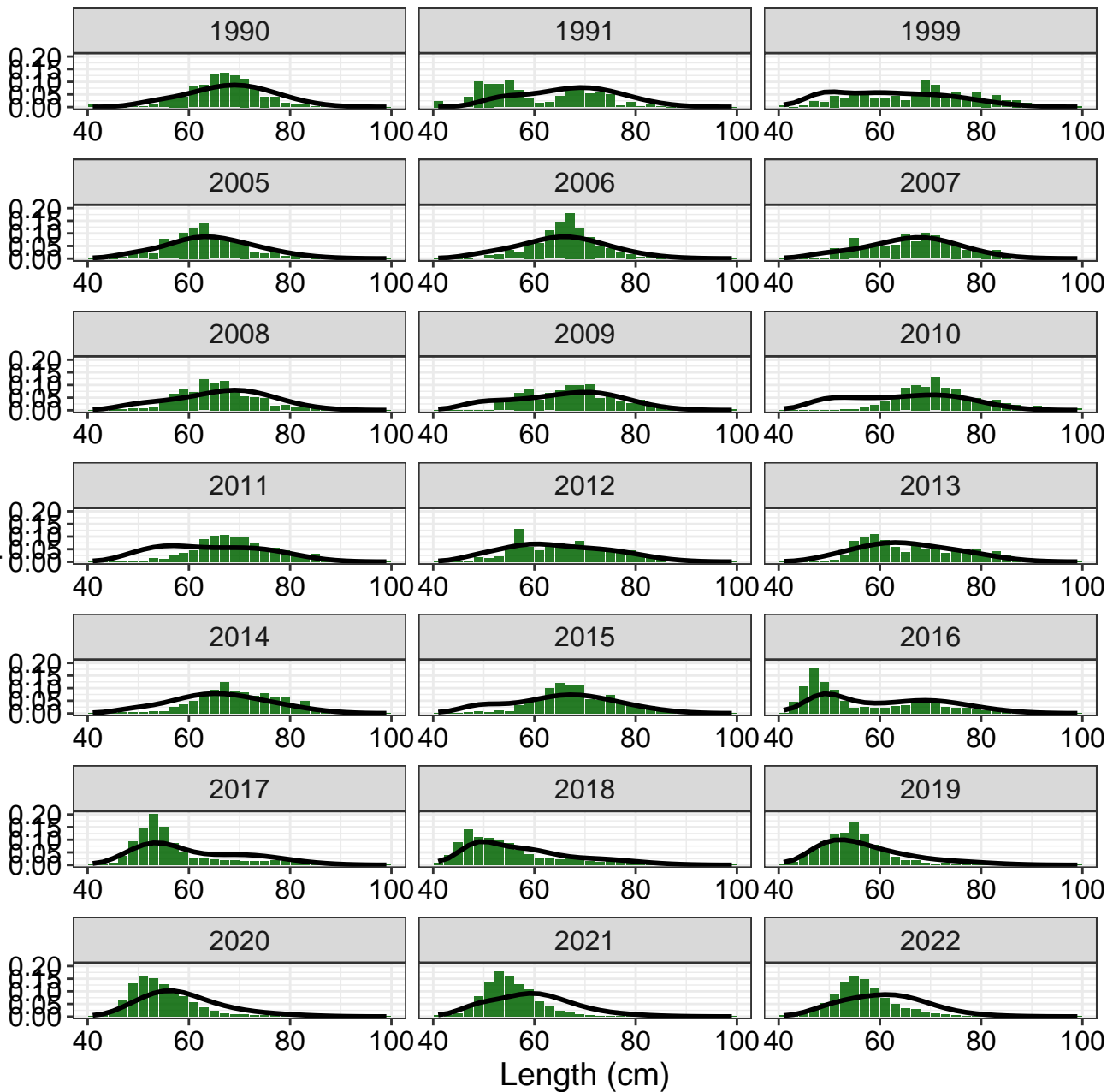
# Trawl Fishery Length Compositions (Male)

Proportion



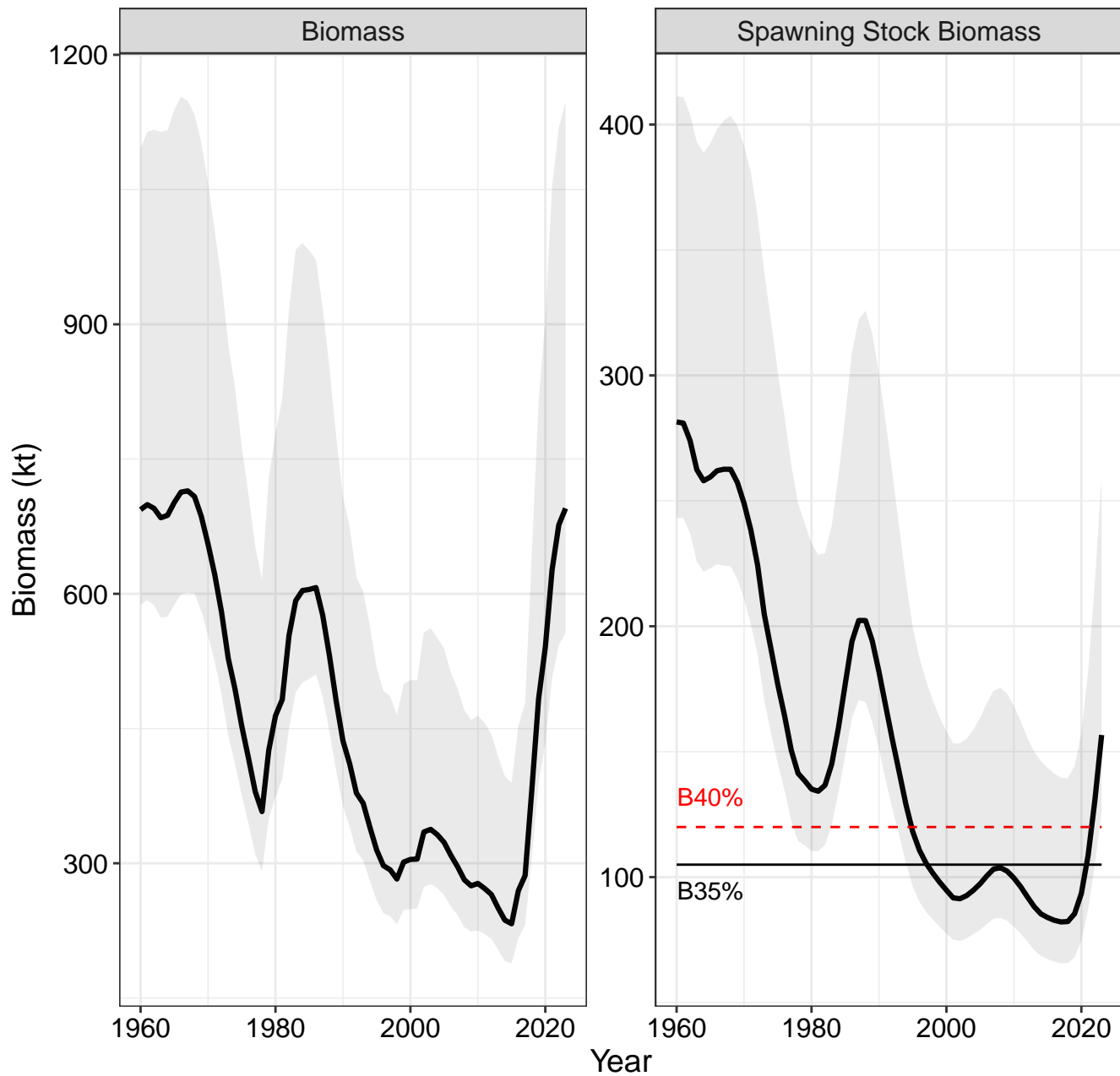
# Trawl Fishery Length Compositions (Female)

Proportion



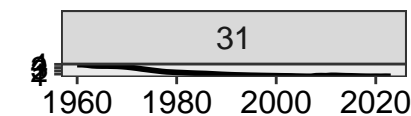
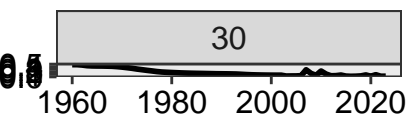
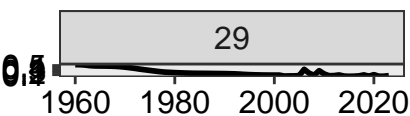
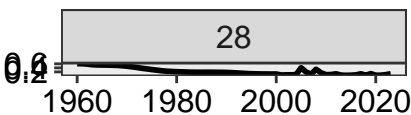
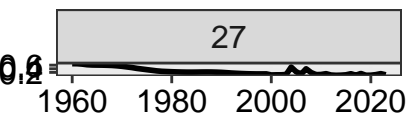
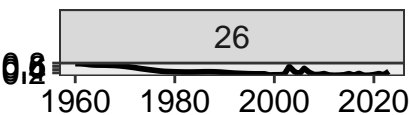
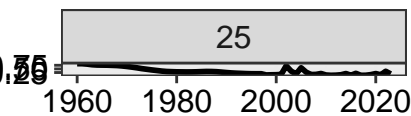
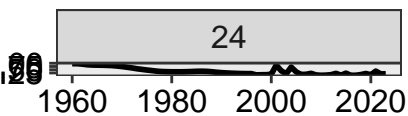
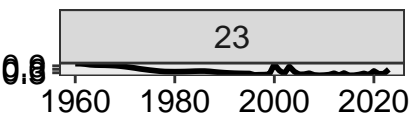
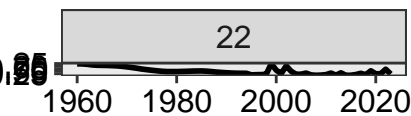
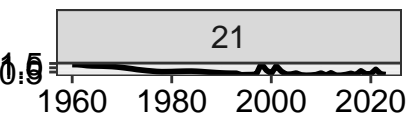
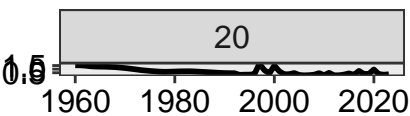
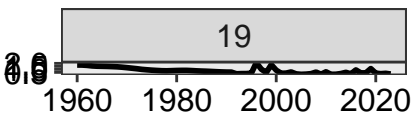
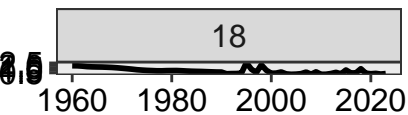
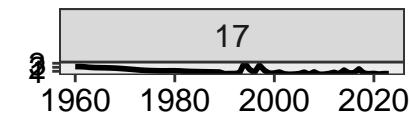
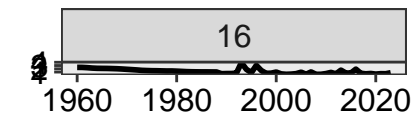
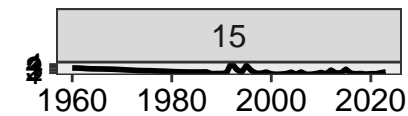
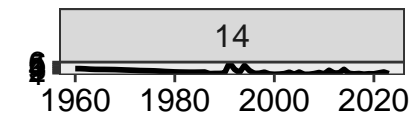
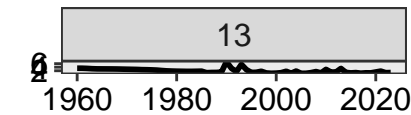
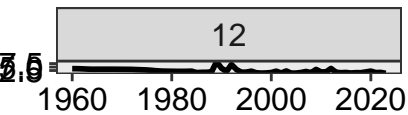
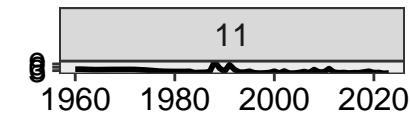
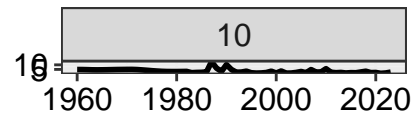
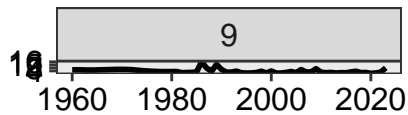
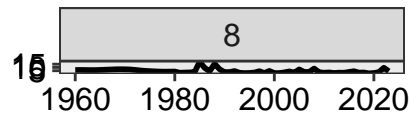
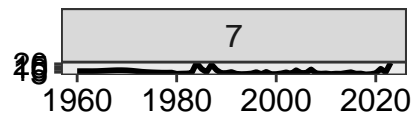
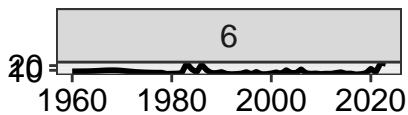
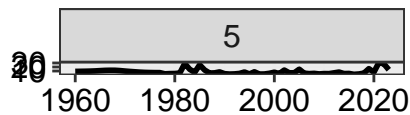
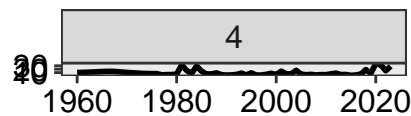
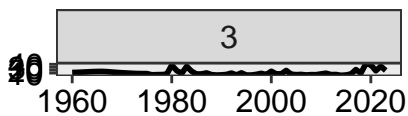
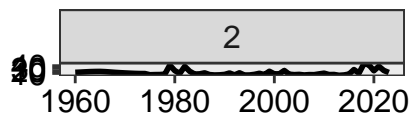


Biomass and SSB with MCMC 95% Credible Intervals



# Population Numbers—at-Age Females

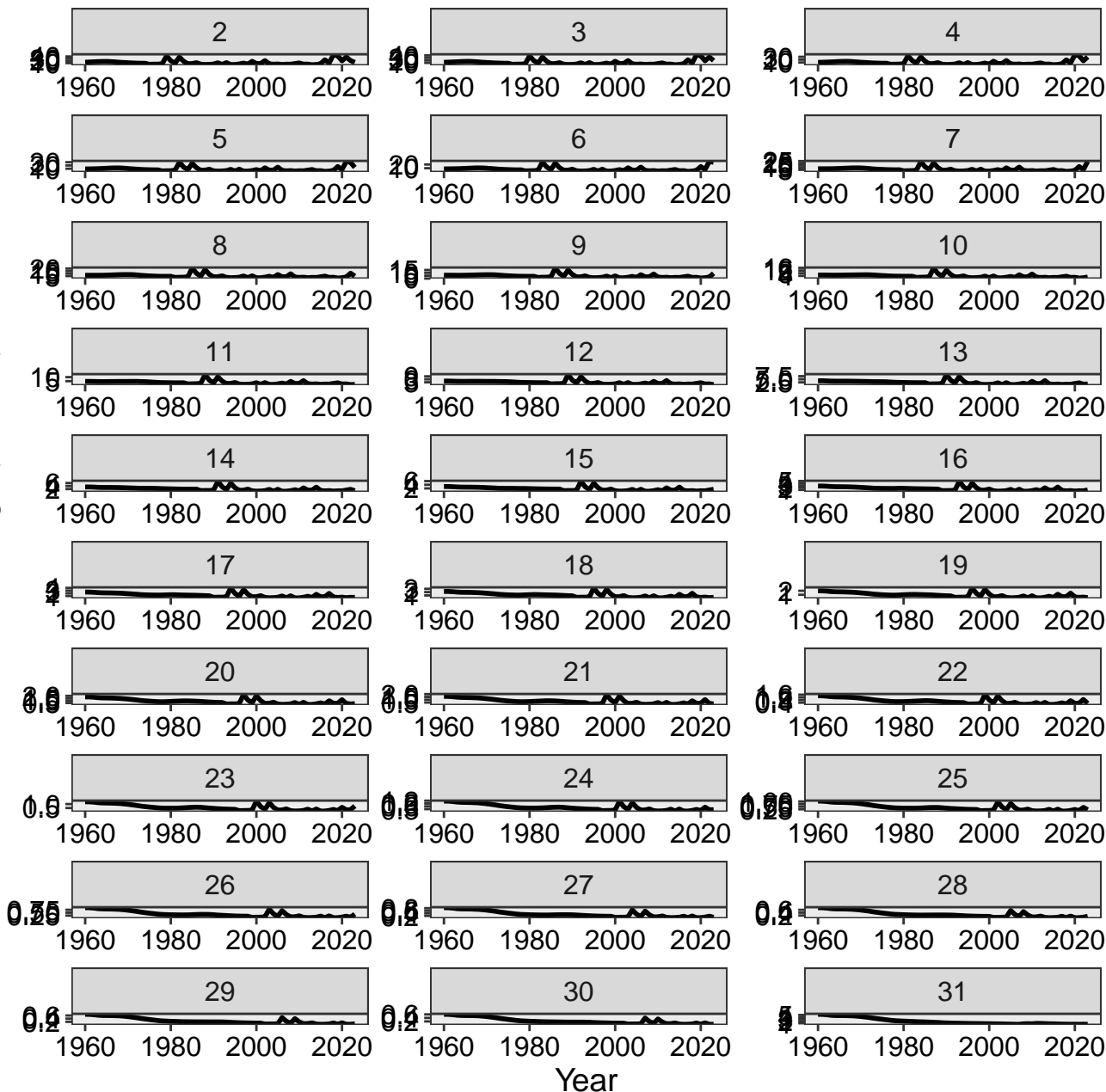
Numbers-at-Age (millions)



Year

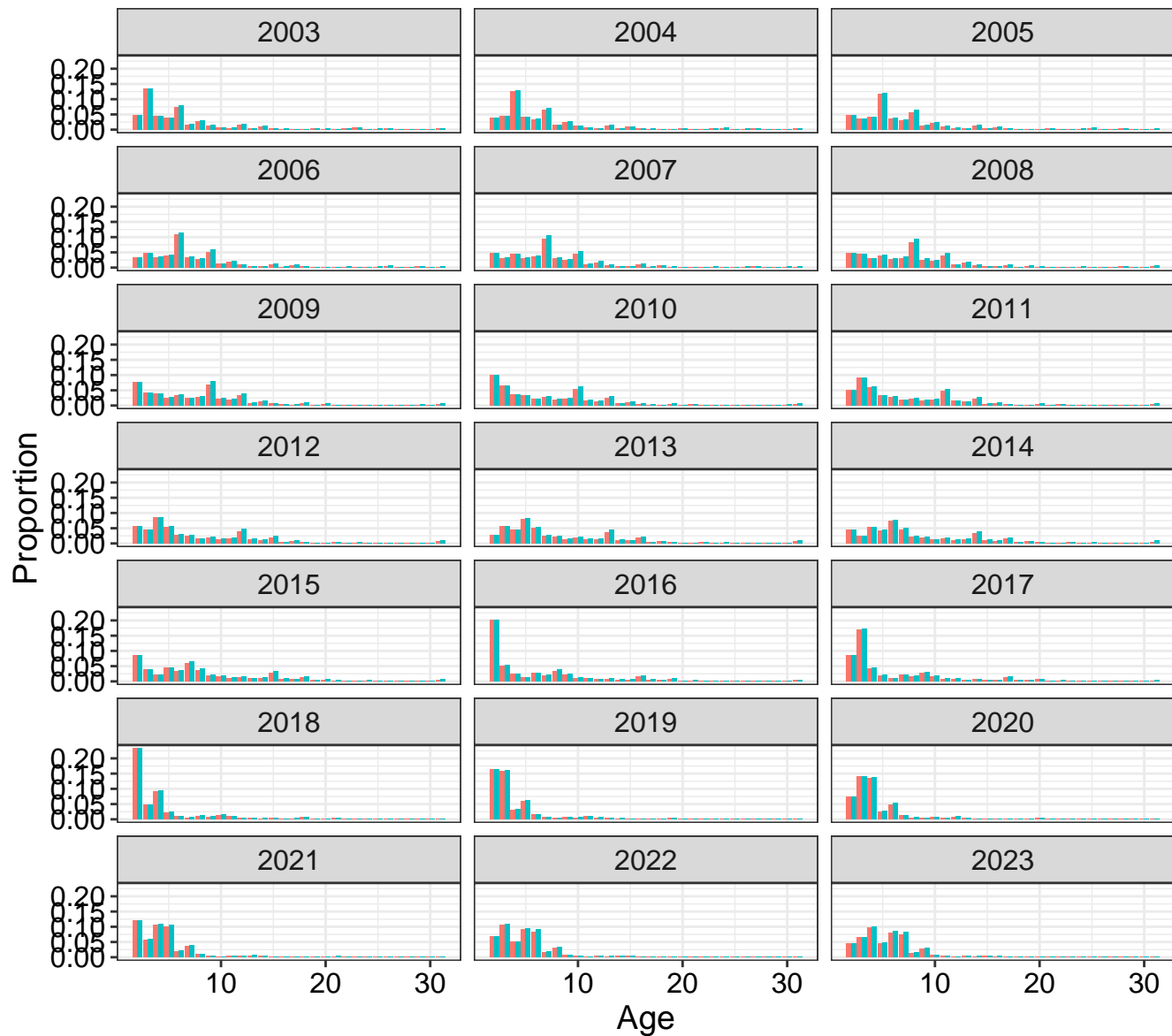
# Population Numbers-at-Age Males

Numbers-at-Age (millions)

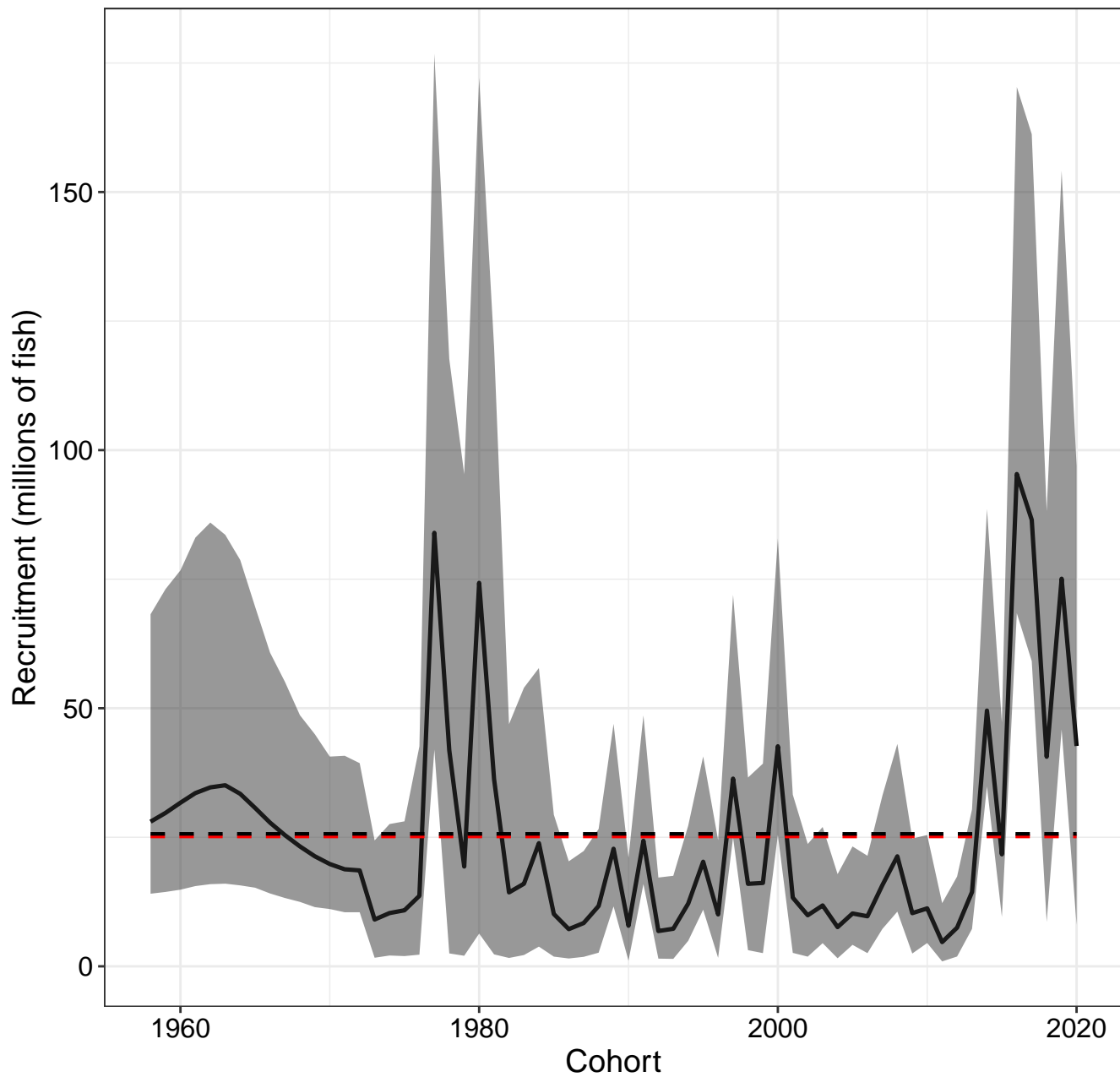


# Population Proportion of Abundance by Age and Sex

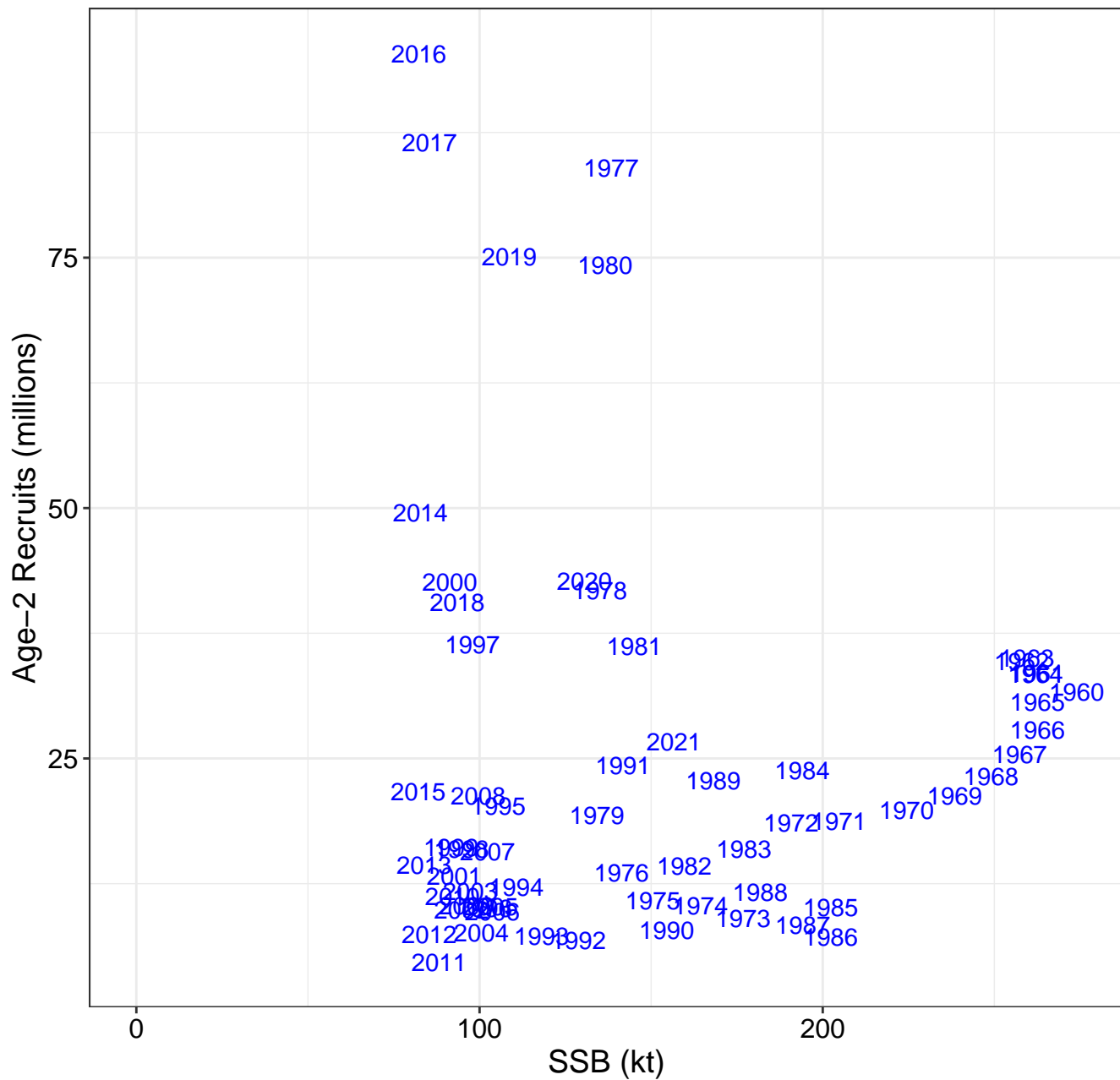
Sex Female Male



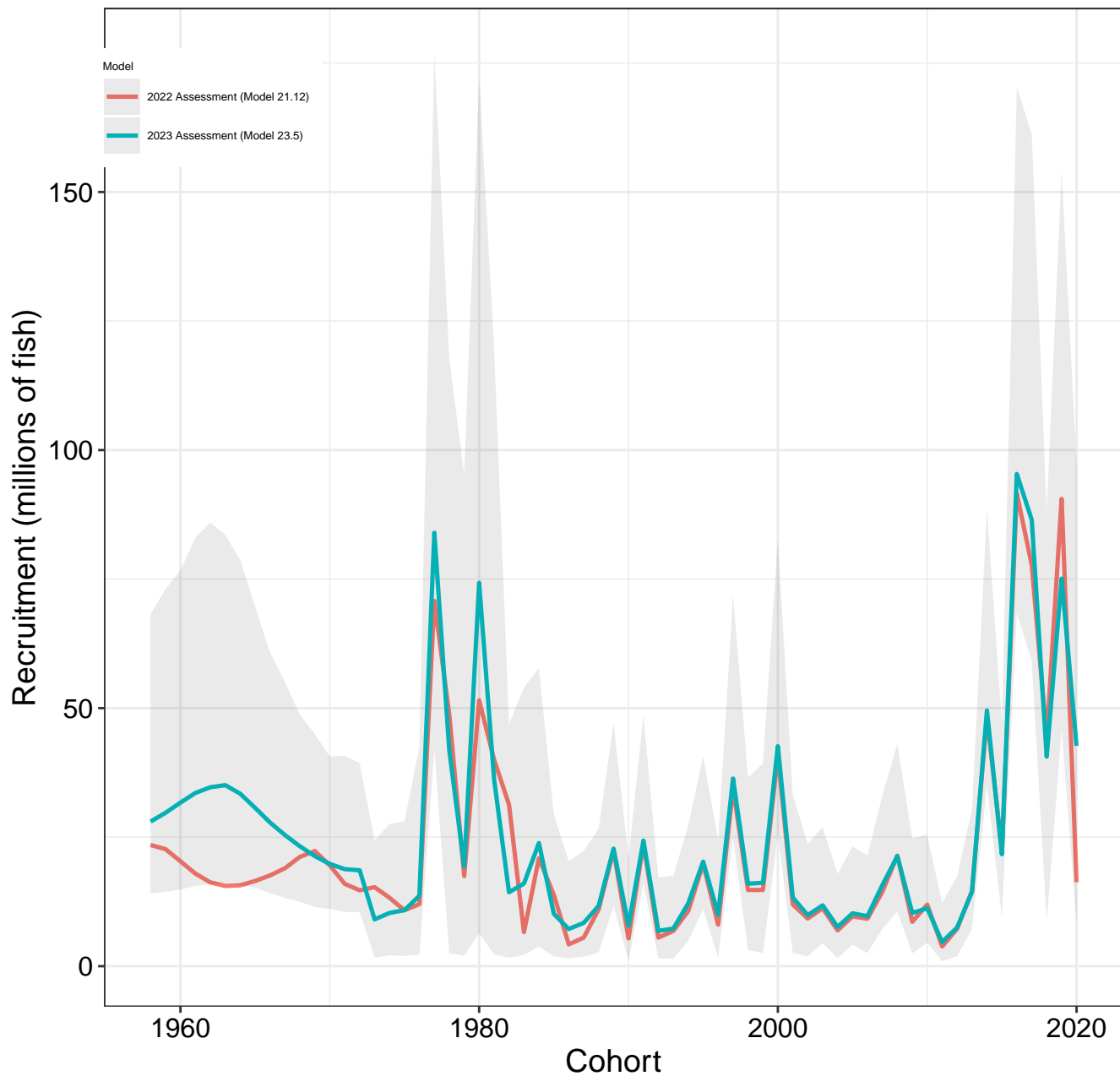
Recruitment (Age-2) with MCMC 95% Credible Intervals



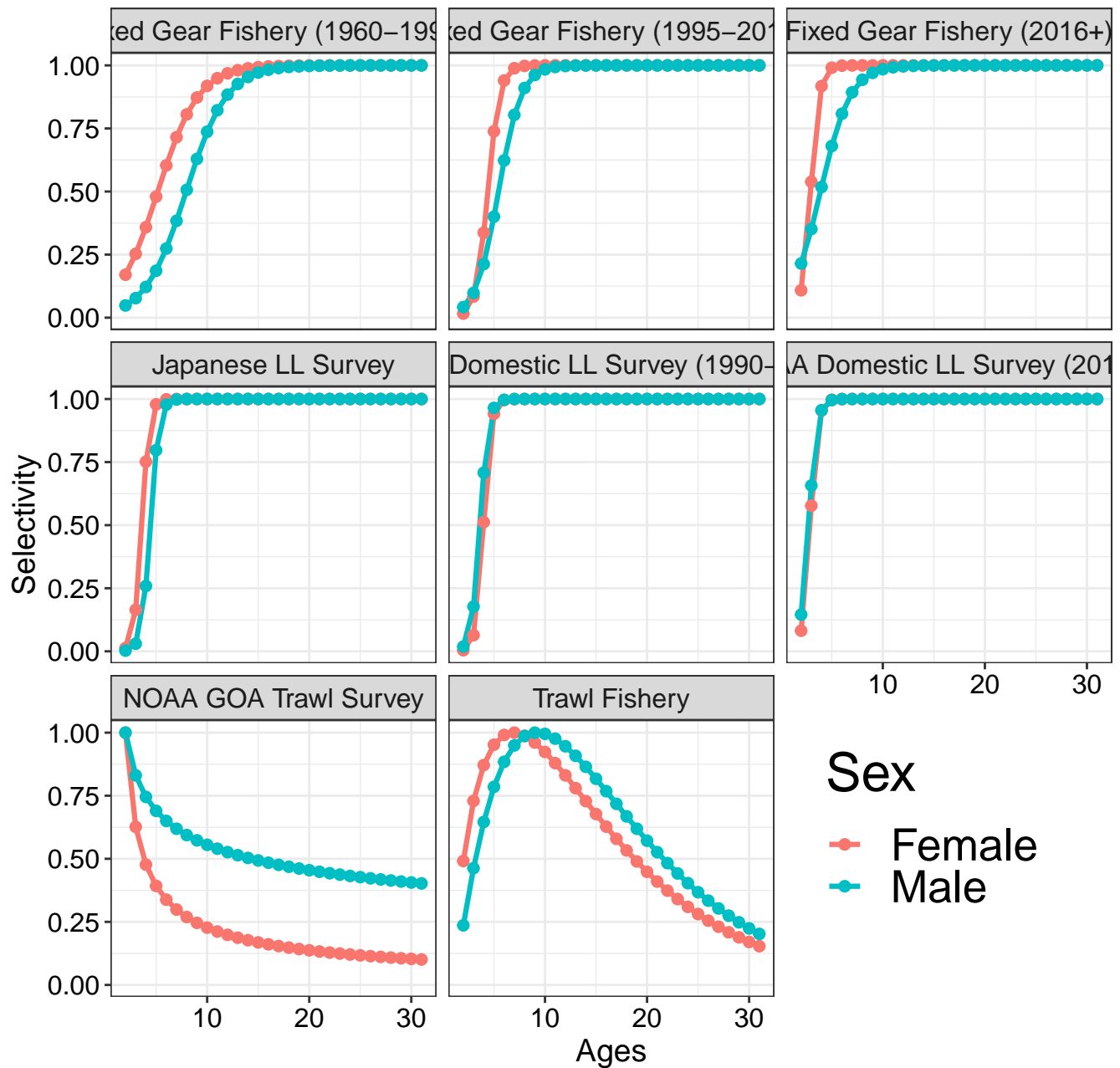
SSB and Subsequent Year Class Size



# Model 23.5 Recruitment Compared to Previous SAFE

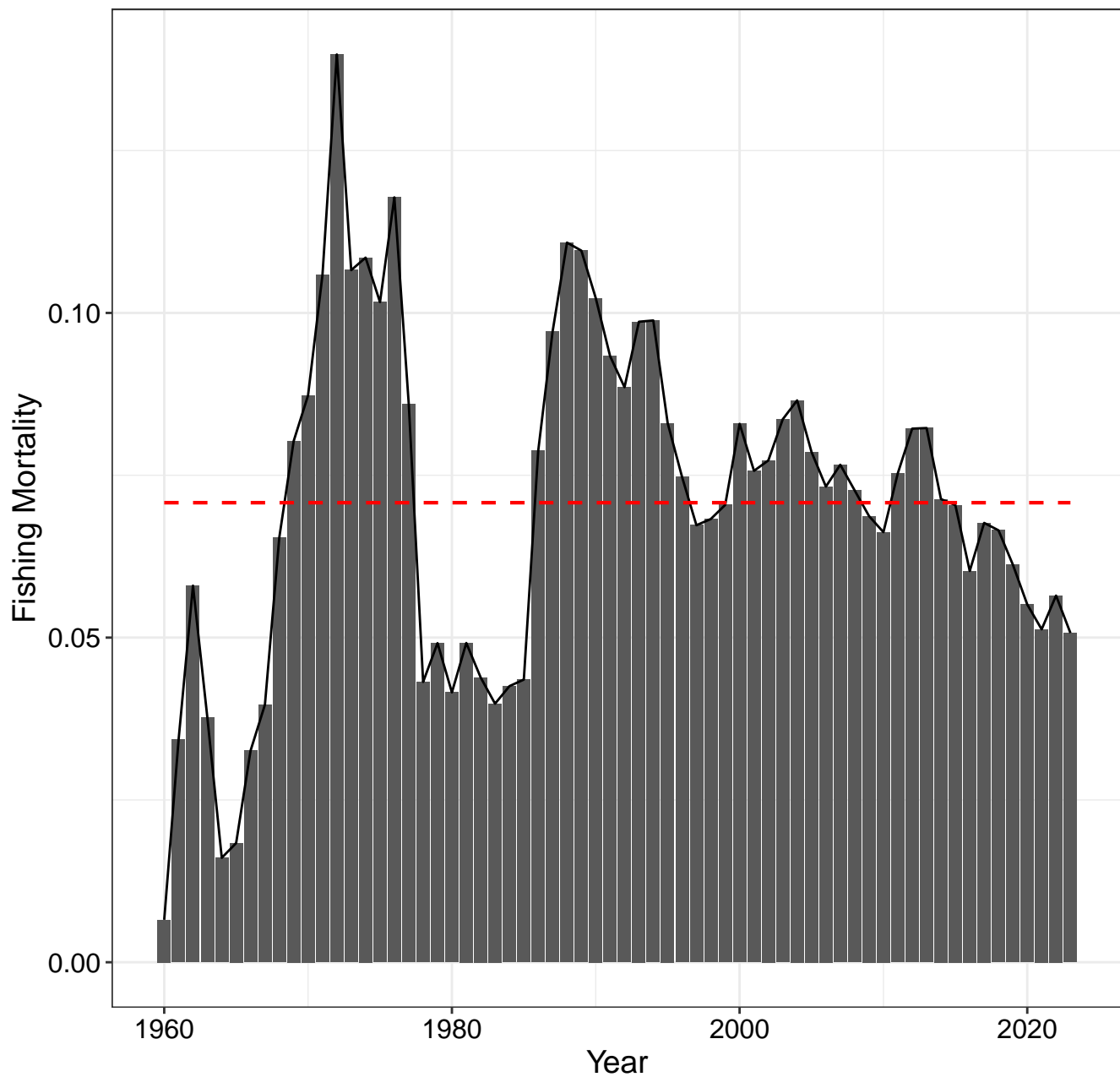


# Estimated Selectivity for Each Modeled Fleet

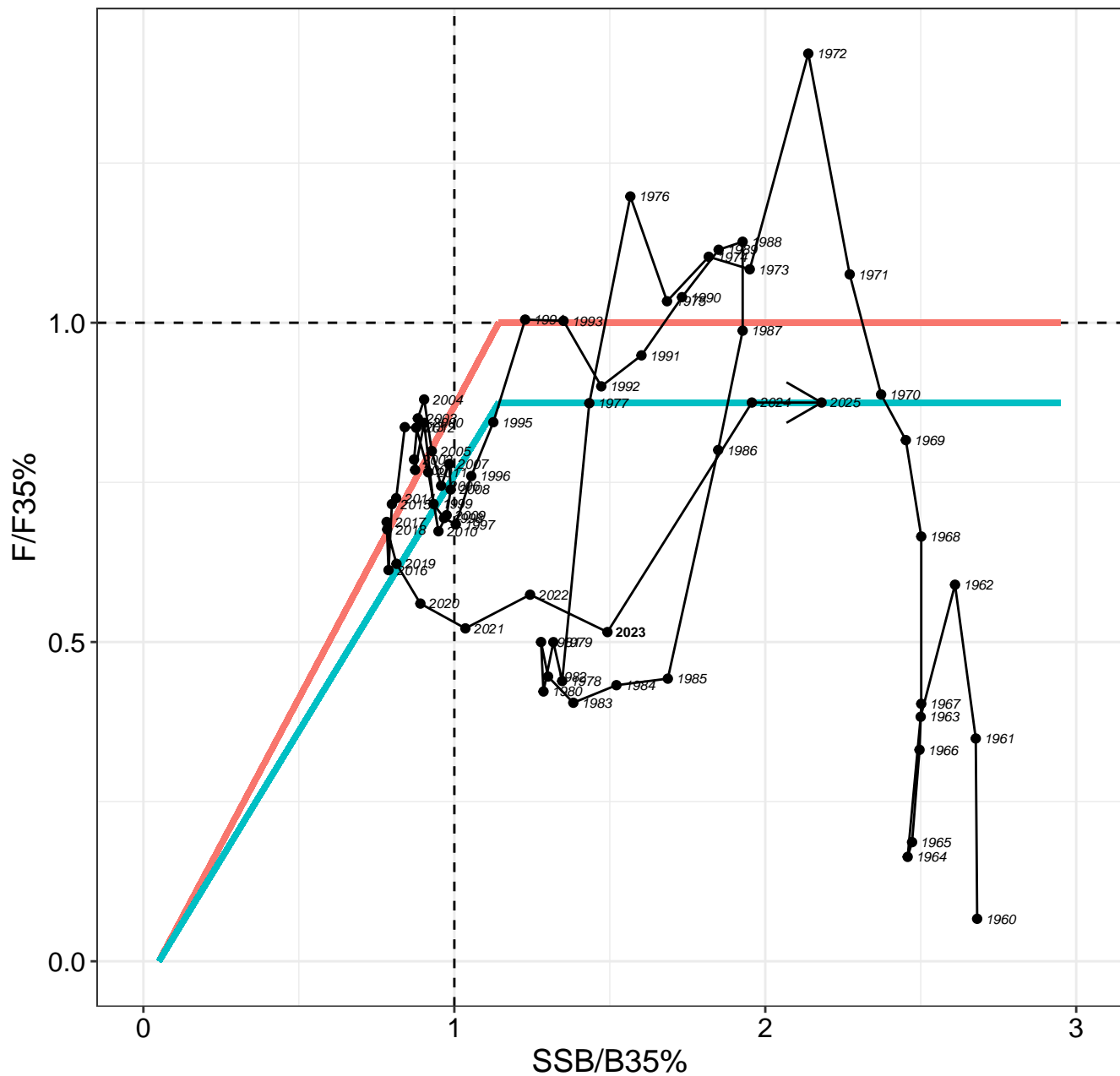




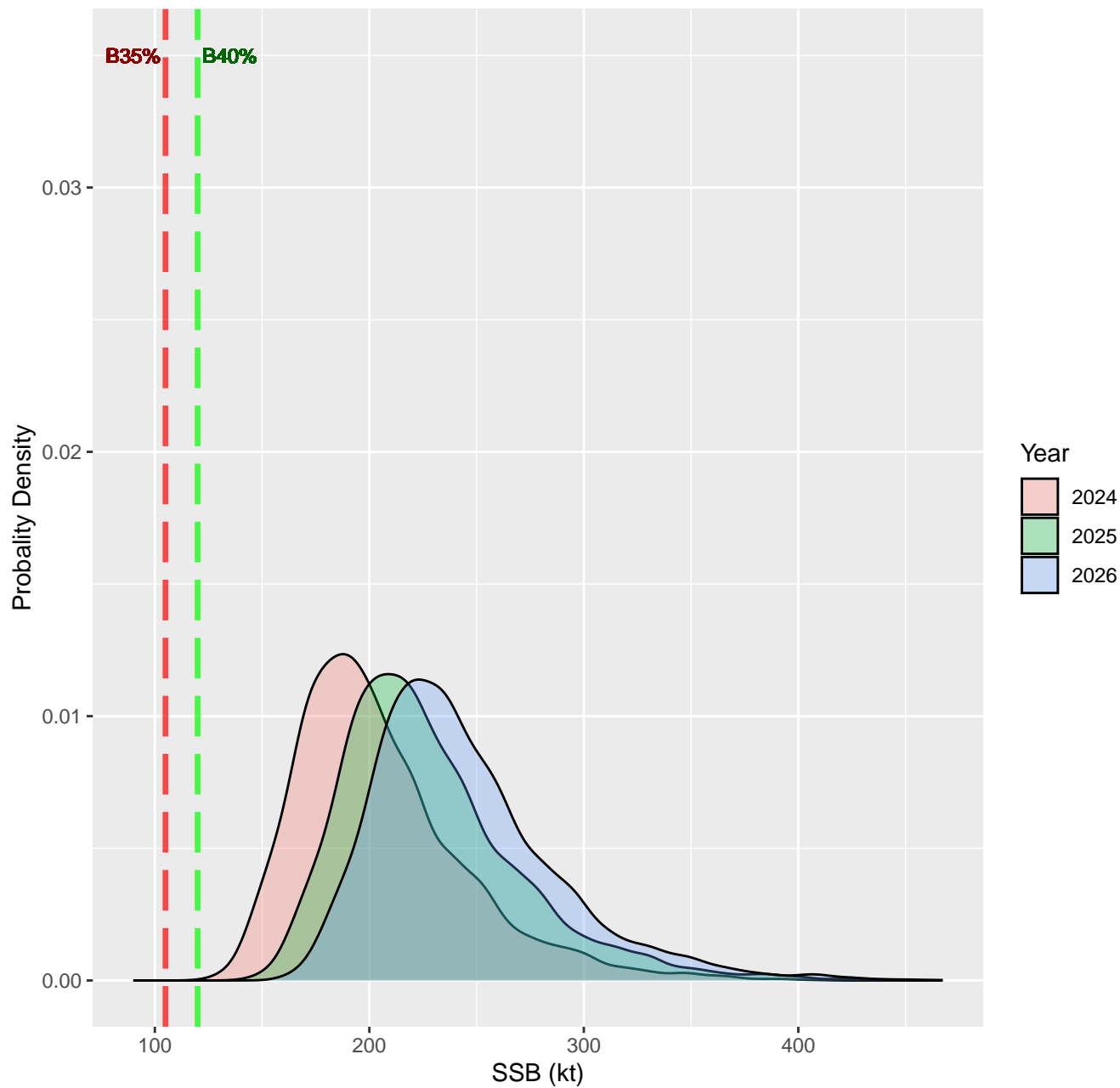
Fully-Selected Summary Fishing Mortality



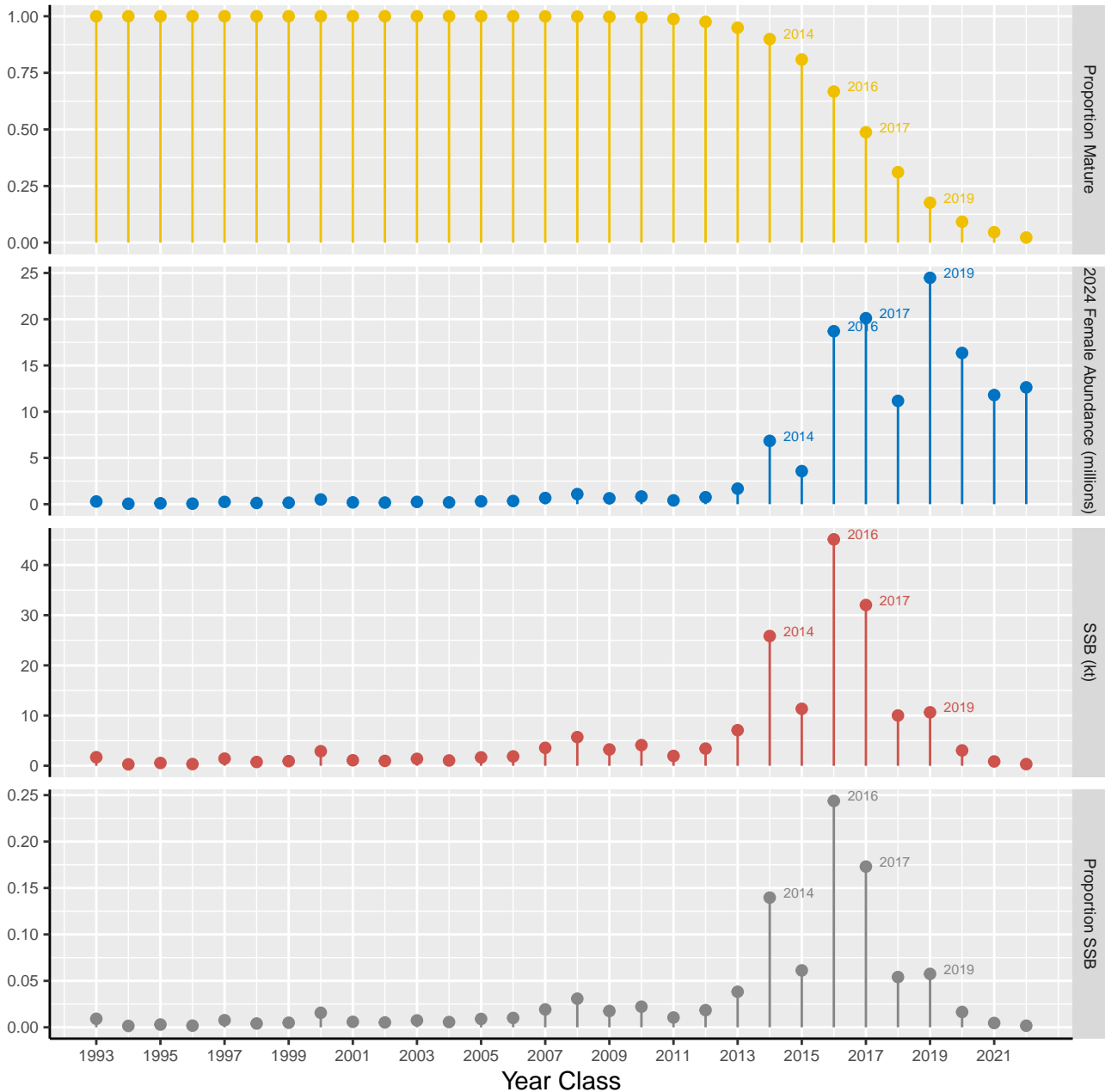
# Phase-Plane Diagram of Management Trajectory



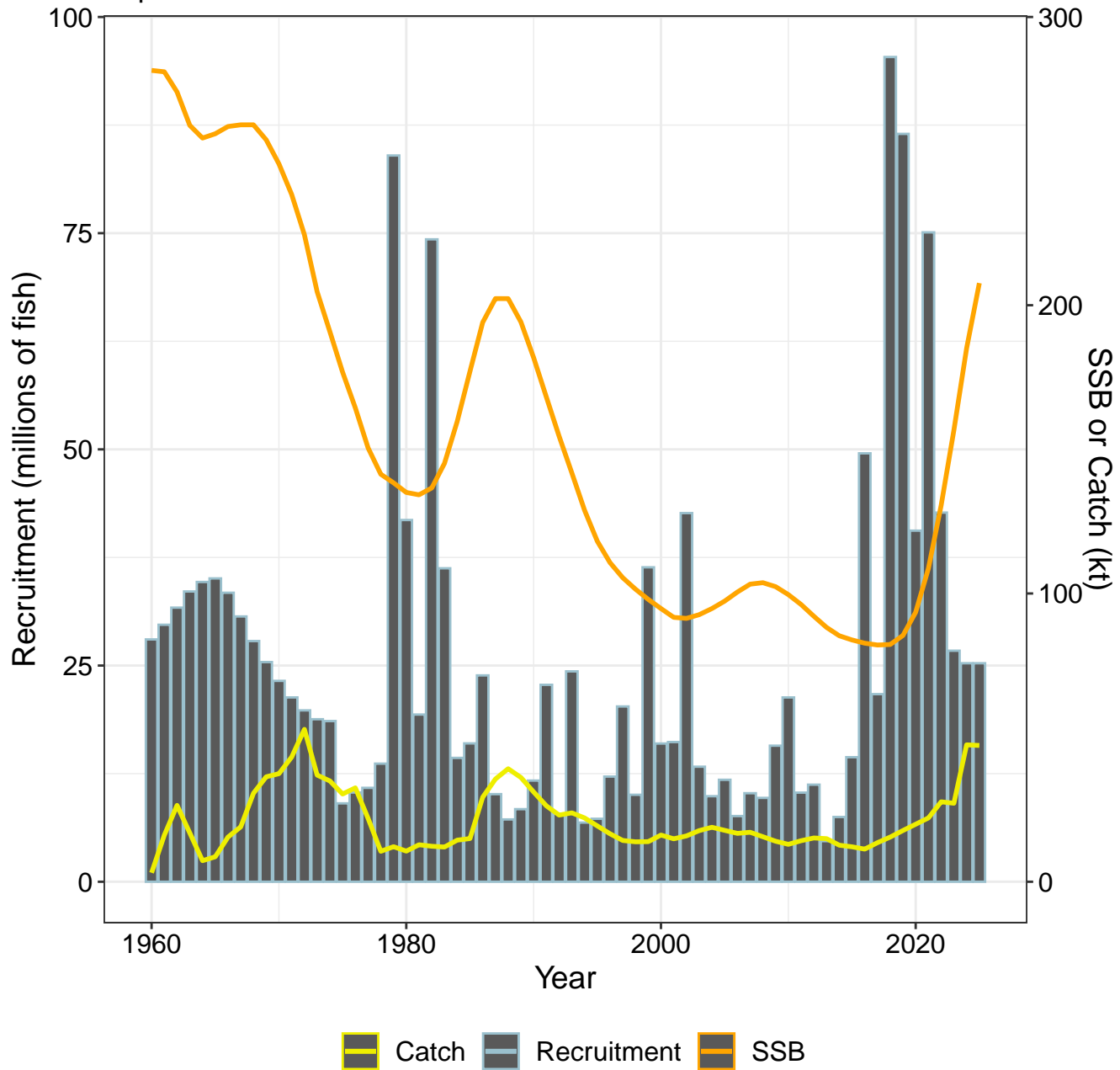
Posterior Probability Distribution of Projected SSB



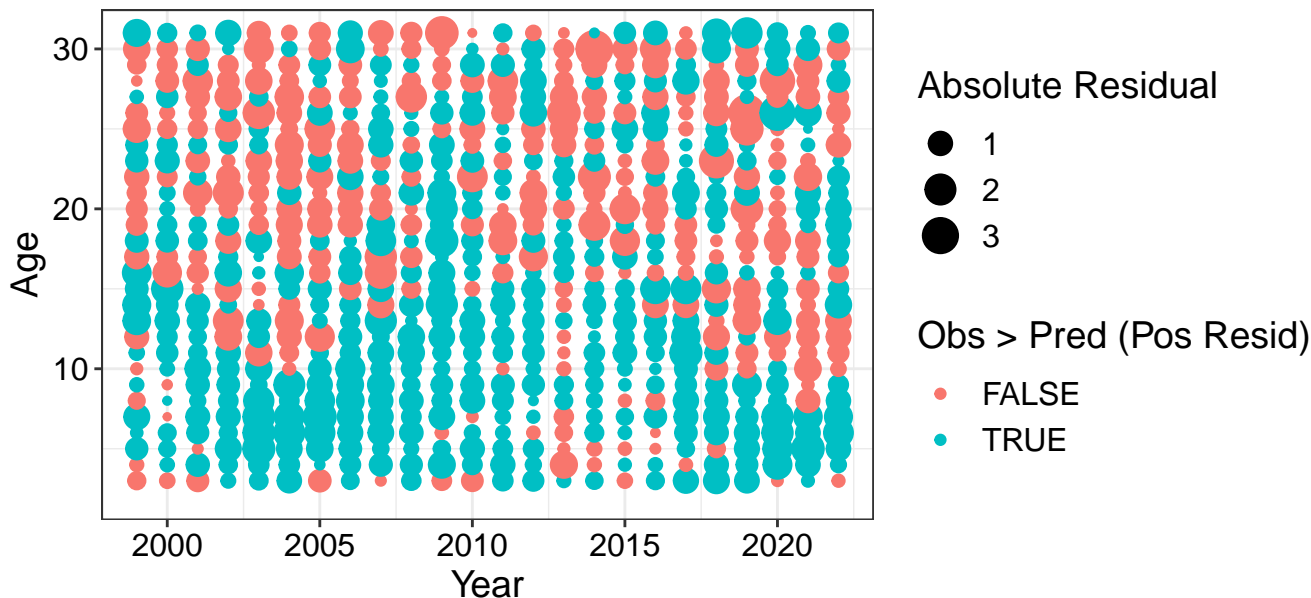
# Contribution to 2024 SSB by Year Class



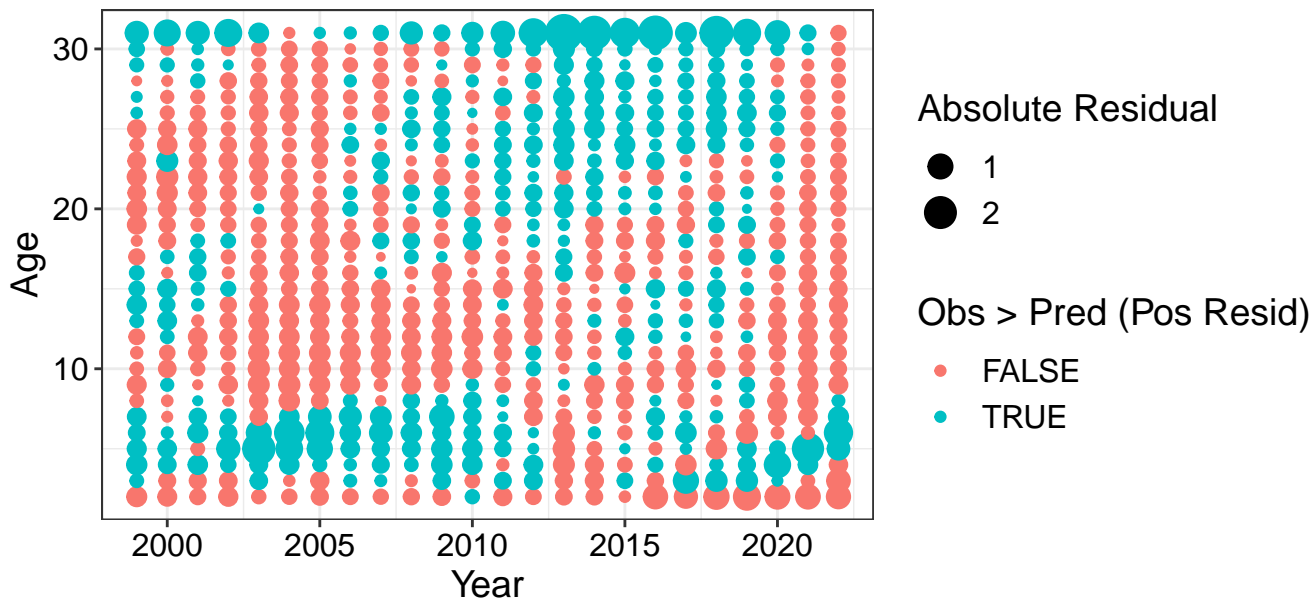
# Population and Catch Trends



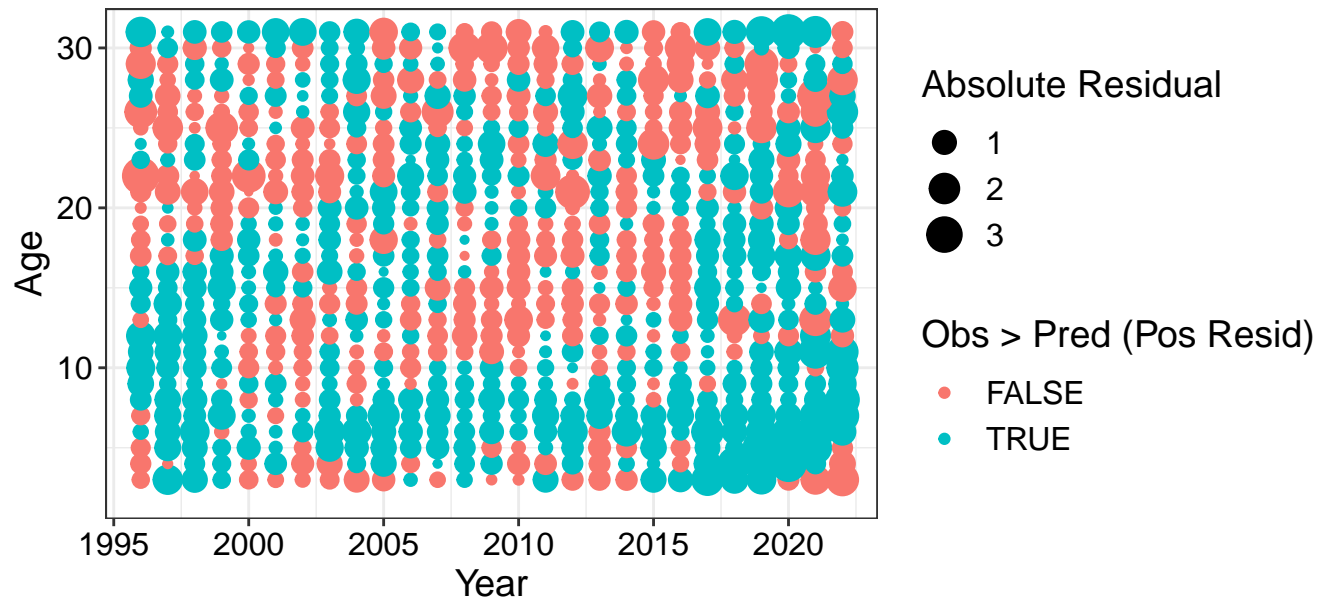
OSA Residuals for Fixed Gear Fishery Age Compositions (Remove Age-2)



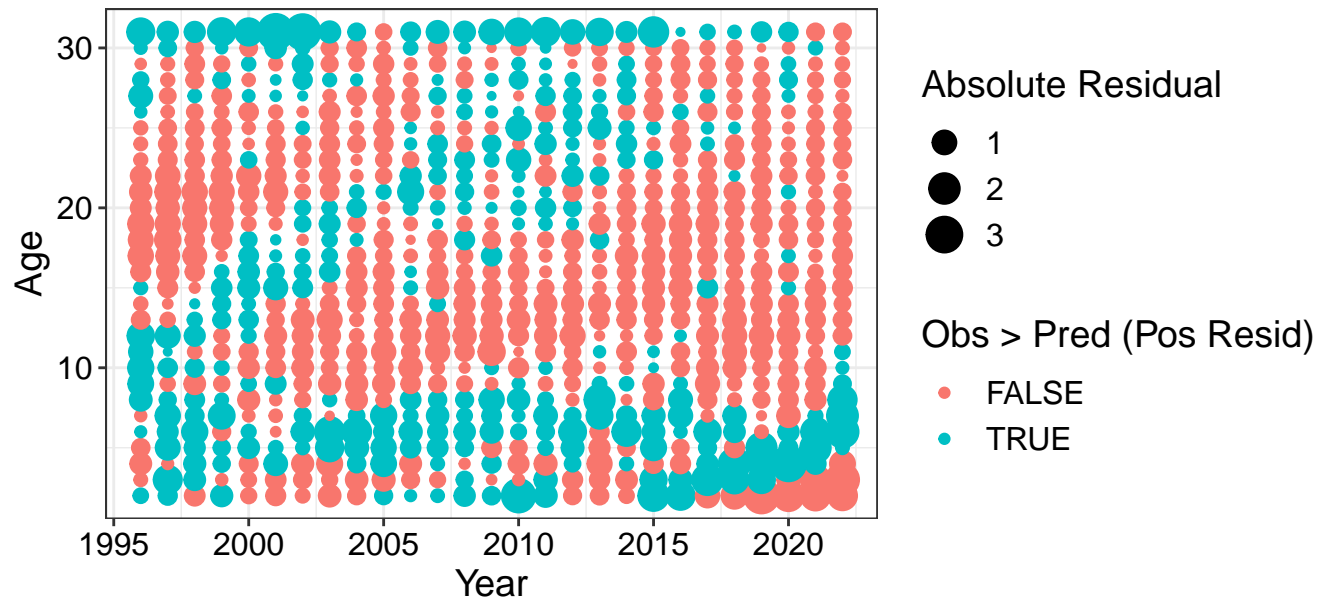
Pearson Residuals for Fixed Gear Fishery Age Compositions



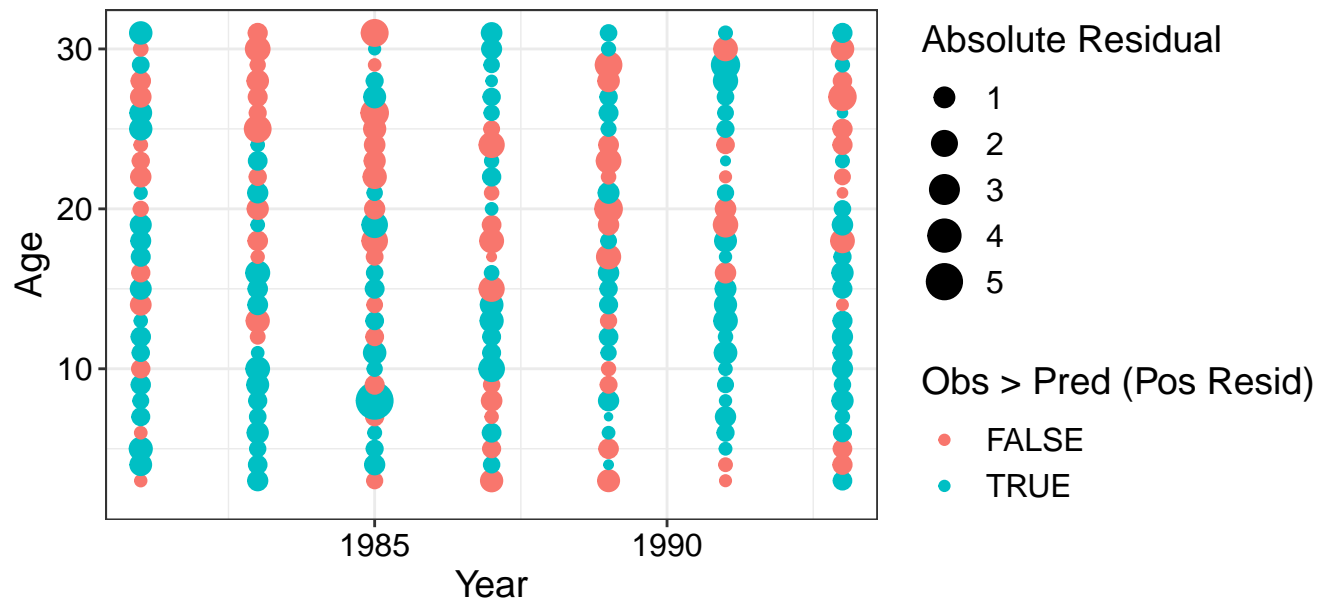
OSA Residuals for NOAA Domestic LL Survey Age Compositions (Remove Age-)



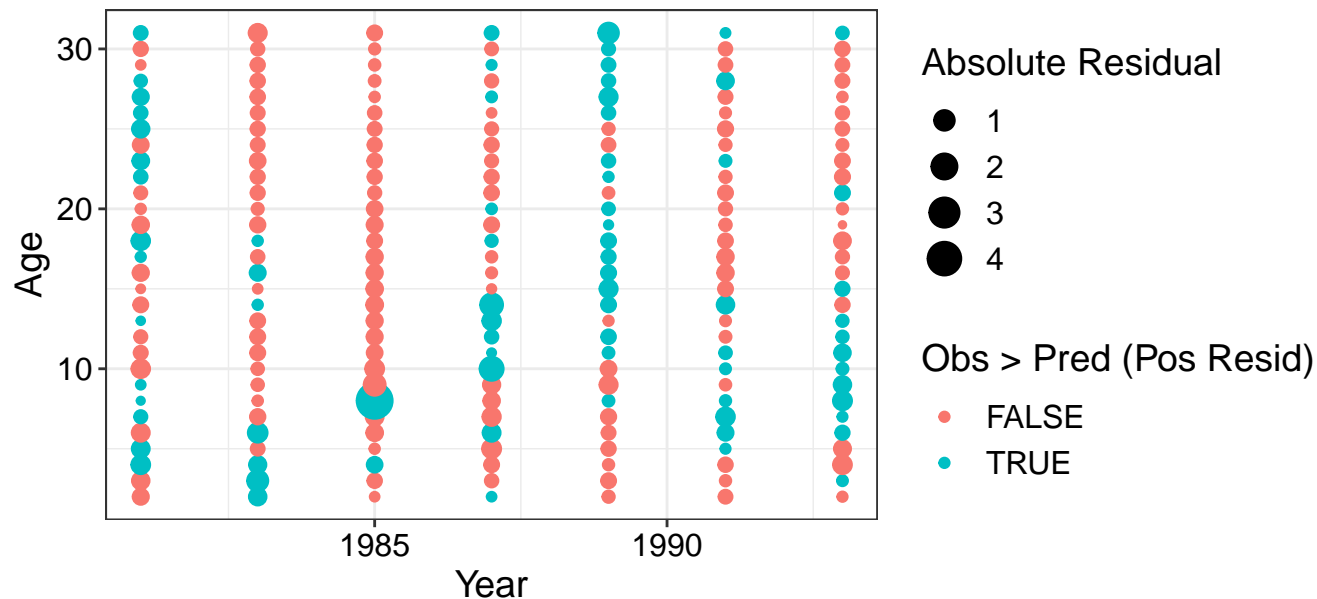
Pearson Residuals for NOAA Domestic LL Survey Age Compositions



OSA Residuals for Japanese LL Survey Age Compositions (Remove Age-2)

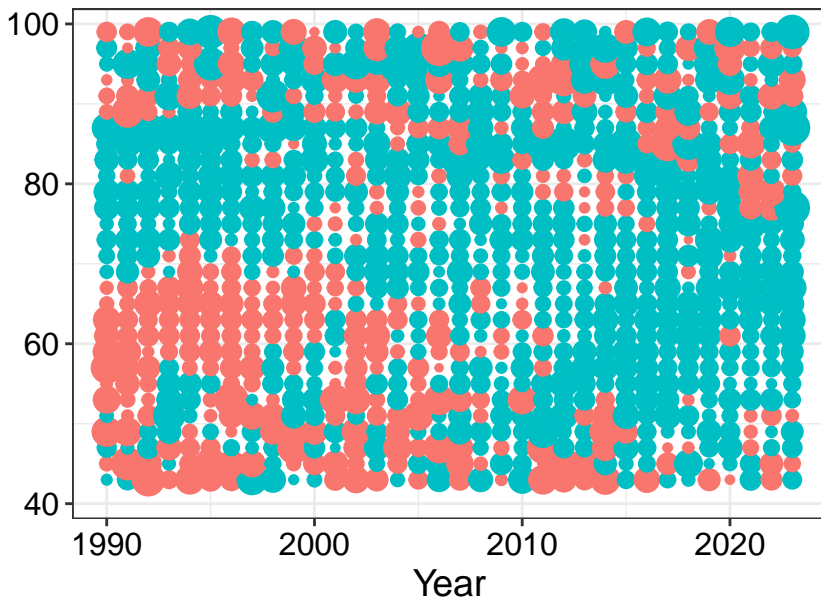


Pearson Residuals for Japanese LL Survey Age Compositions

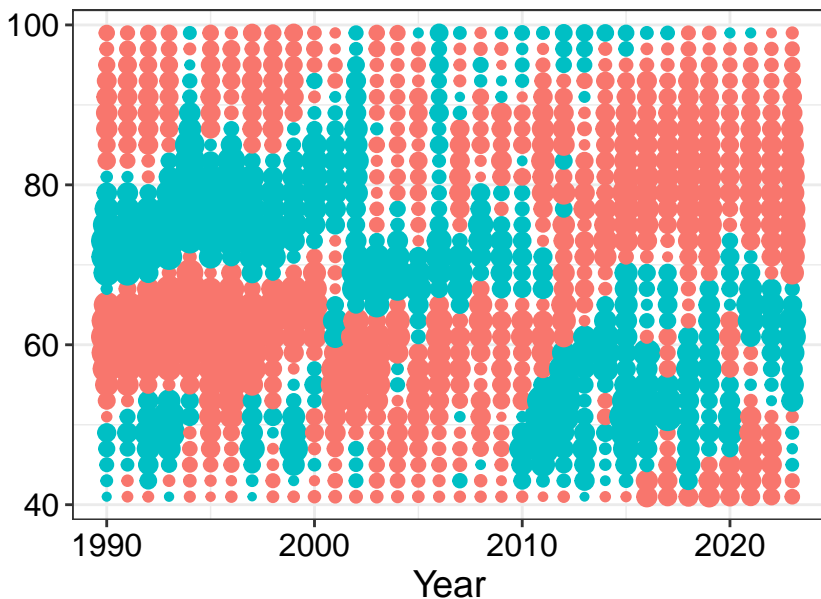




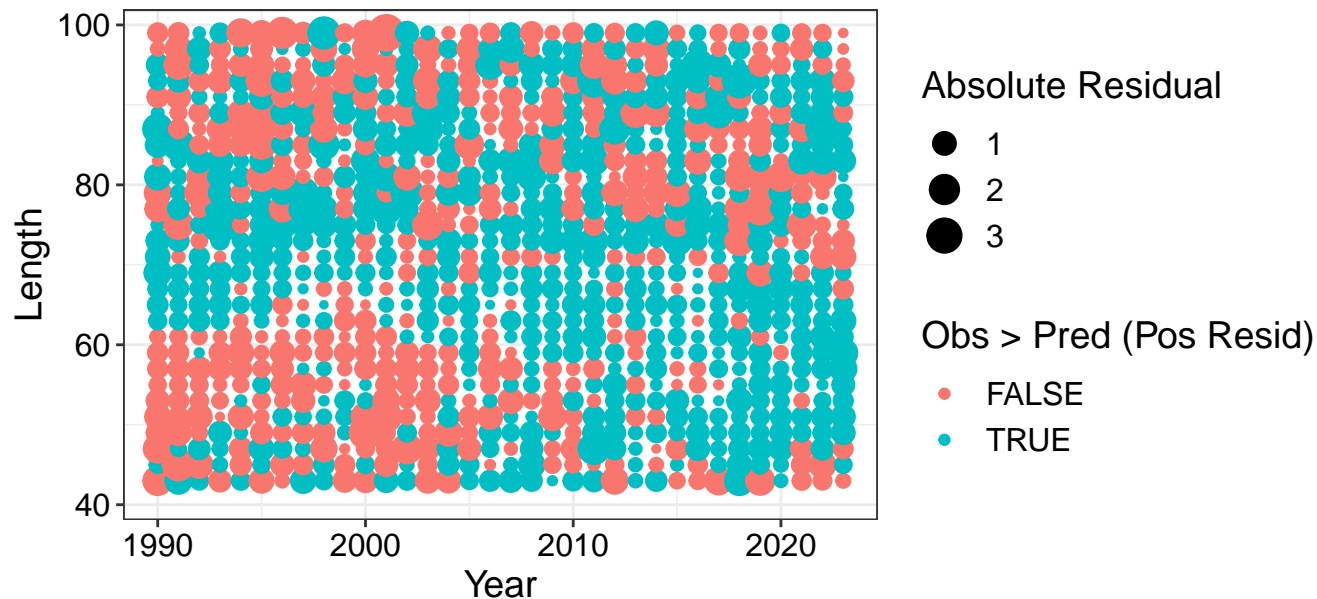
OSA Residuals for NOAA Domestic LL Survey Female Length Compositions (R)



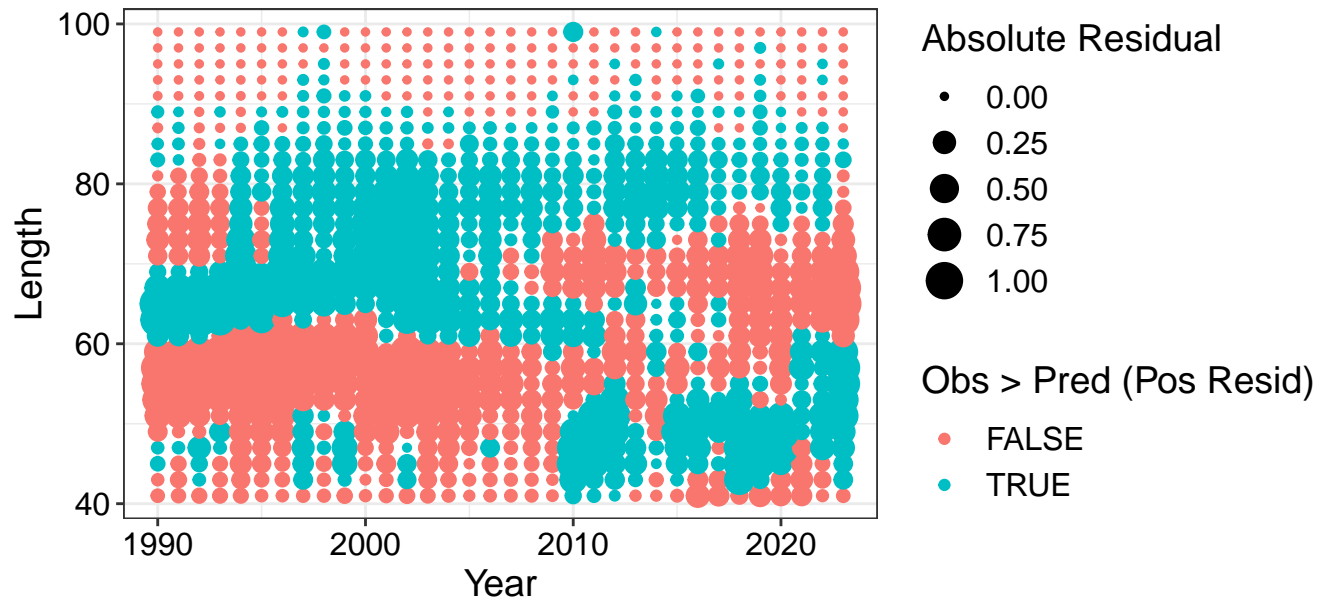
Pearson Residuals for NOAA Domestic LL Survey Female Length Compositions



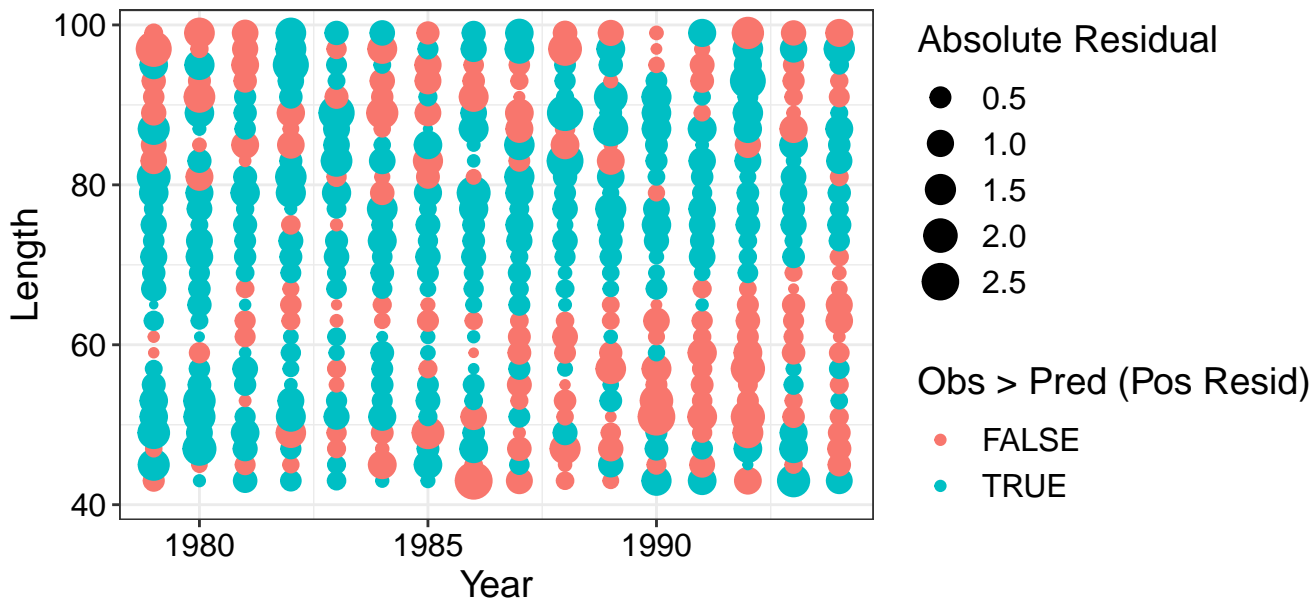
OSA Residuals for NOAA Domestic LL Survey Male Length Compositions (Rem



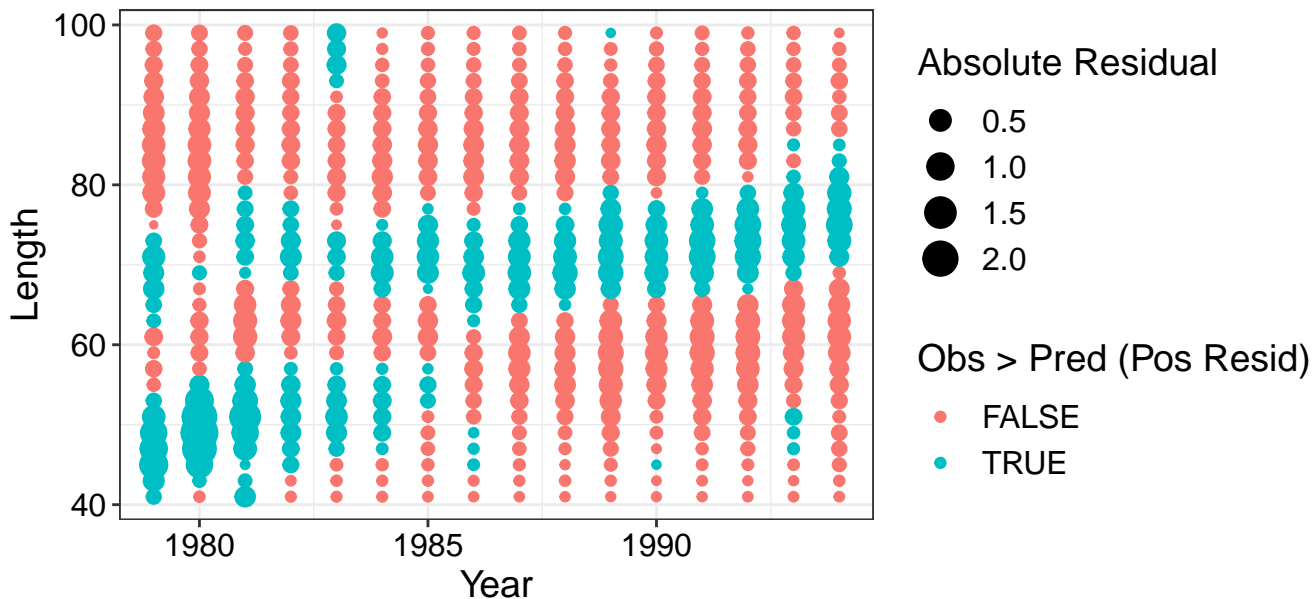
Pearson Residuals for NOAA Domestic LL Survey Male Length Compositions



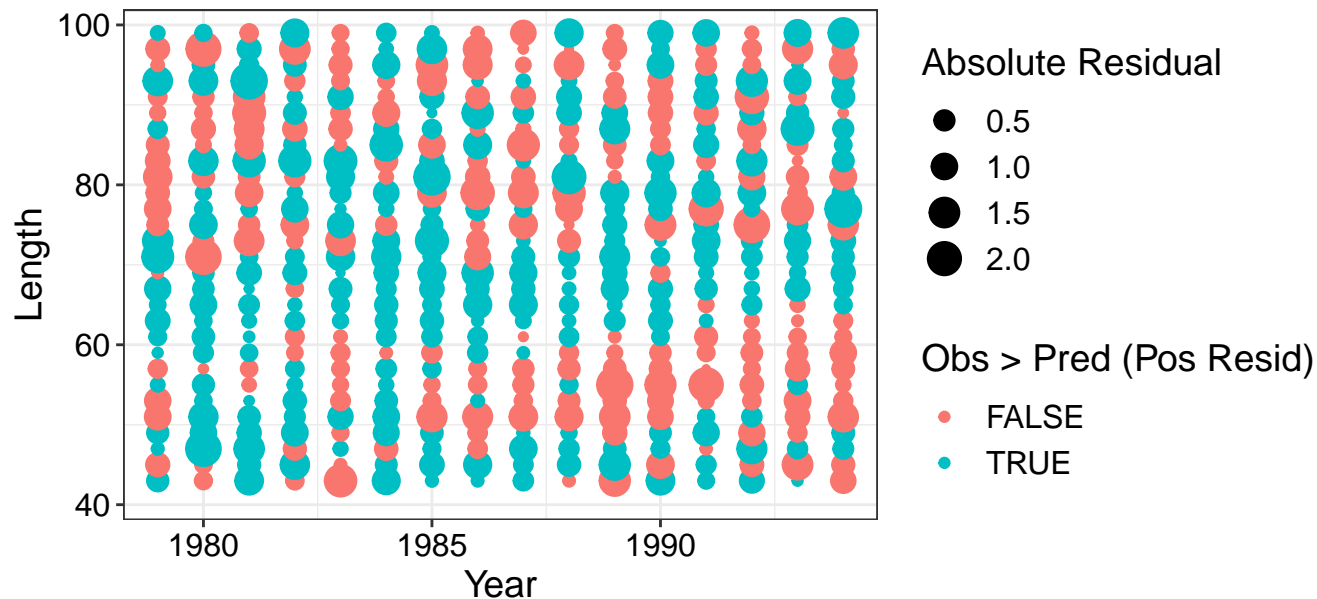
OSA Residuals for Japanese LL Survey Female Length Compositions (Remove



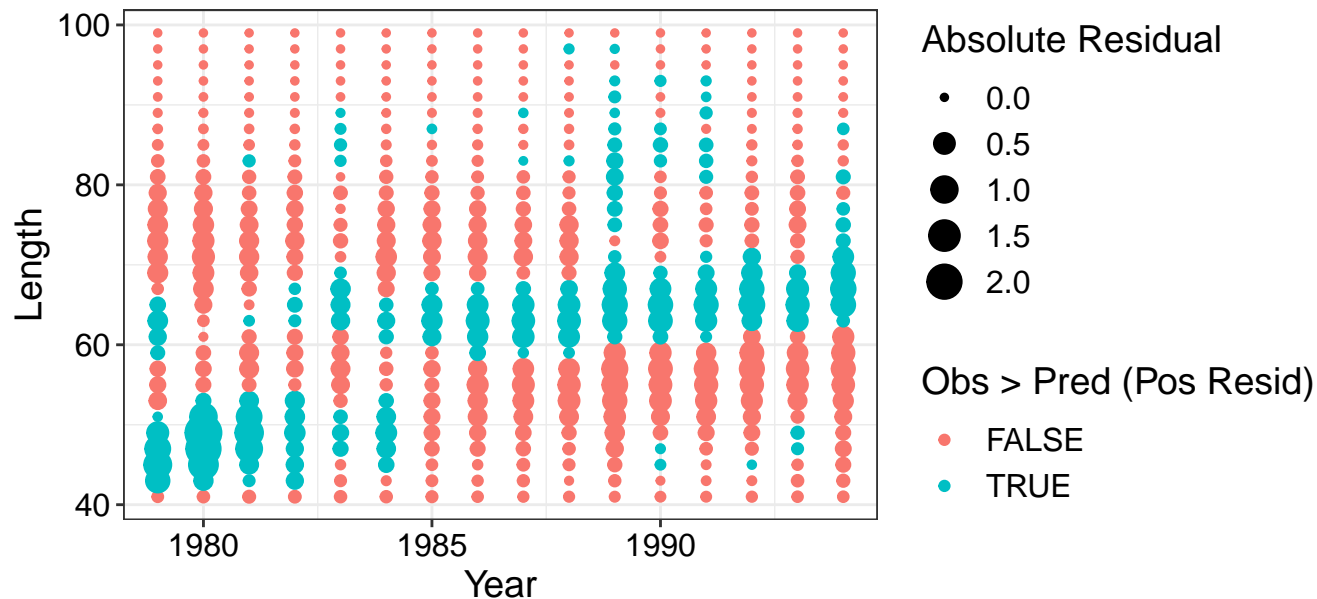
Pearson Residuals for Japanese LL Survey Female Length Compositions



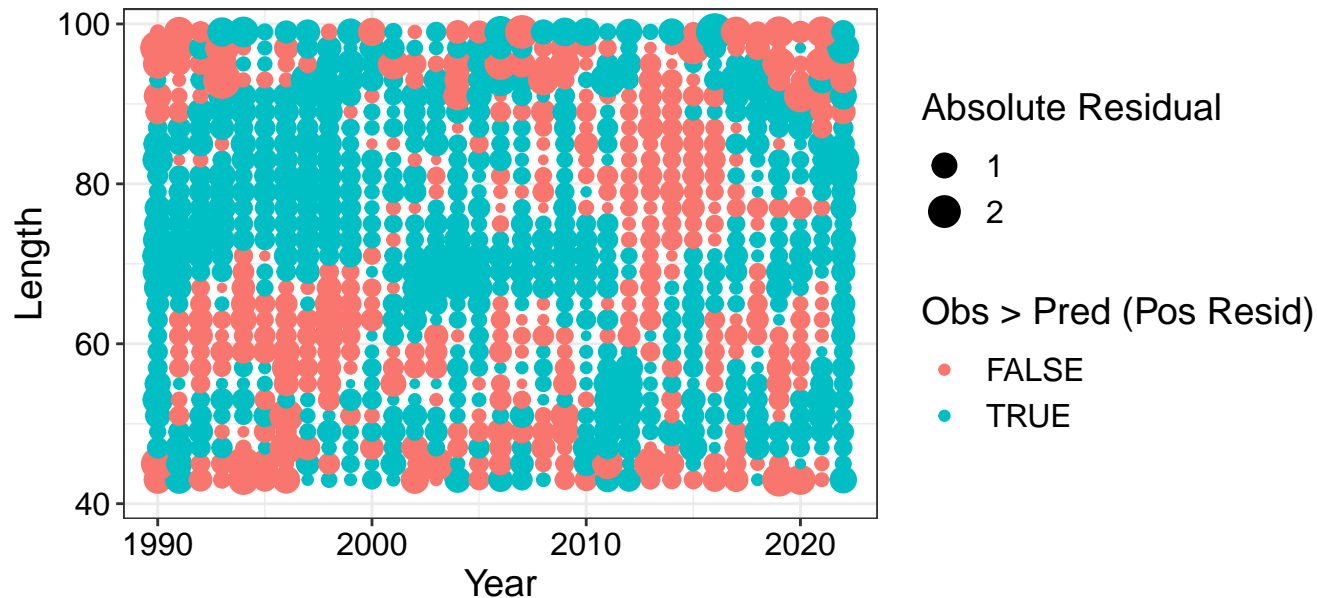
# OSA Residuals for Japanese LL Survey Male Length Compositions (Remove 41



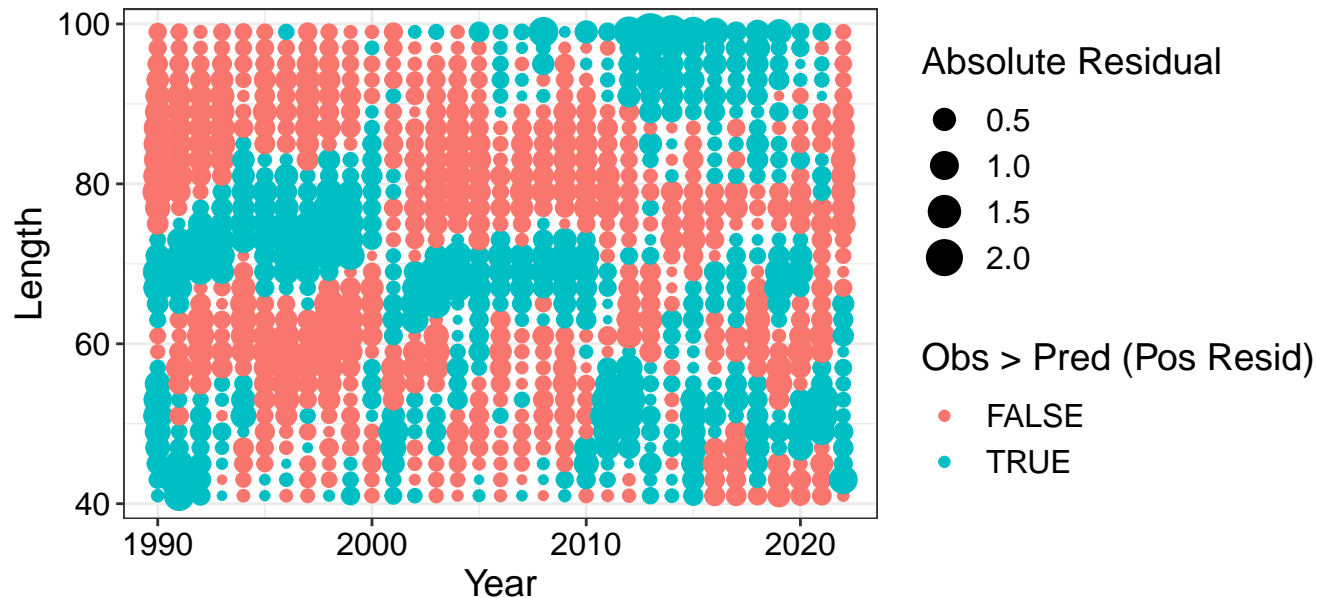
## Pearson Residuals for Japanese LL Survey Male Length Compositions



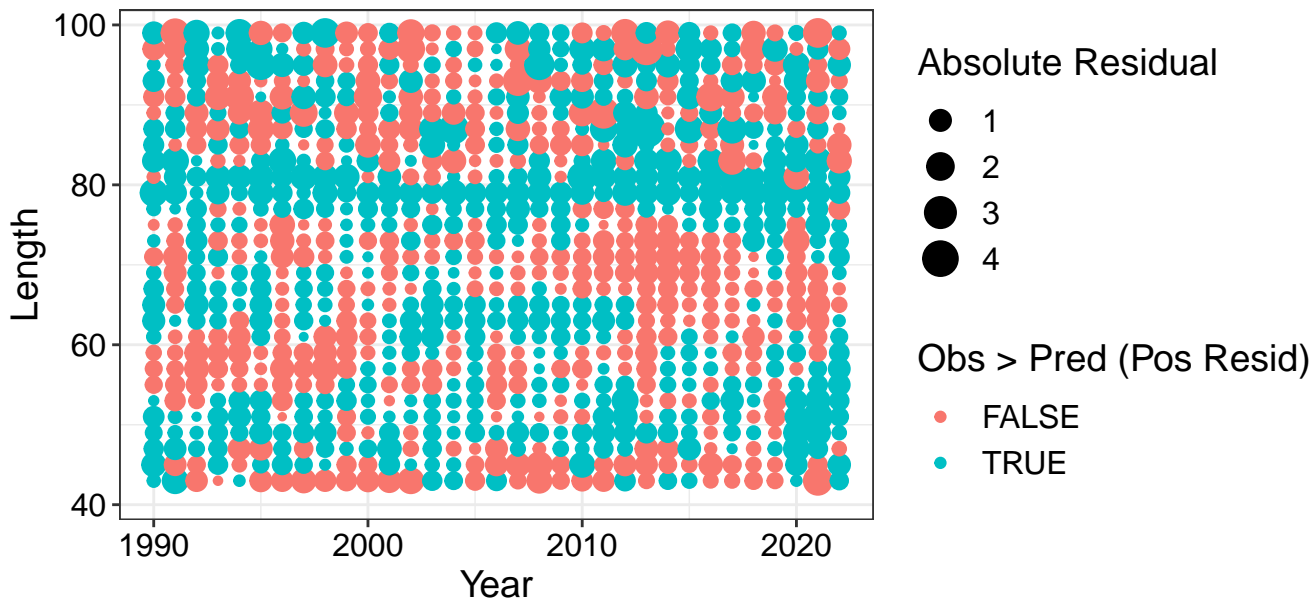
# OSA Residuals for Fixed Gear Fishery Female Length Compositions (Remove 4



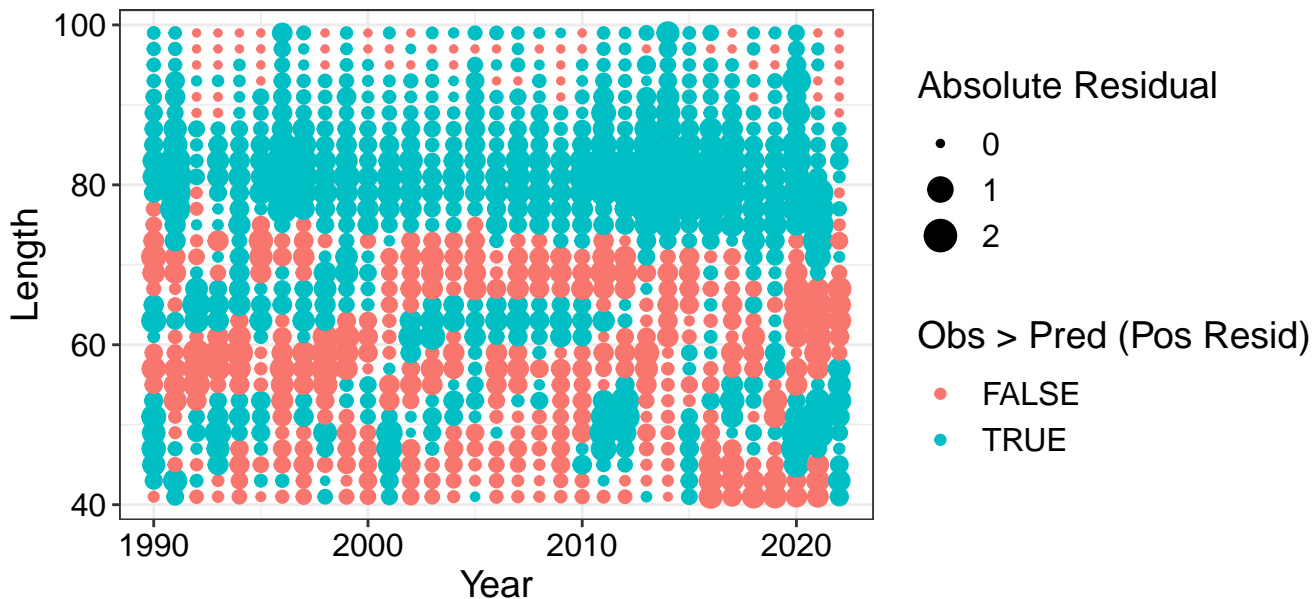
## Pearson Residuals for Fixed Gear Fishery Female Length Compositions



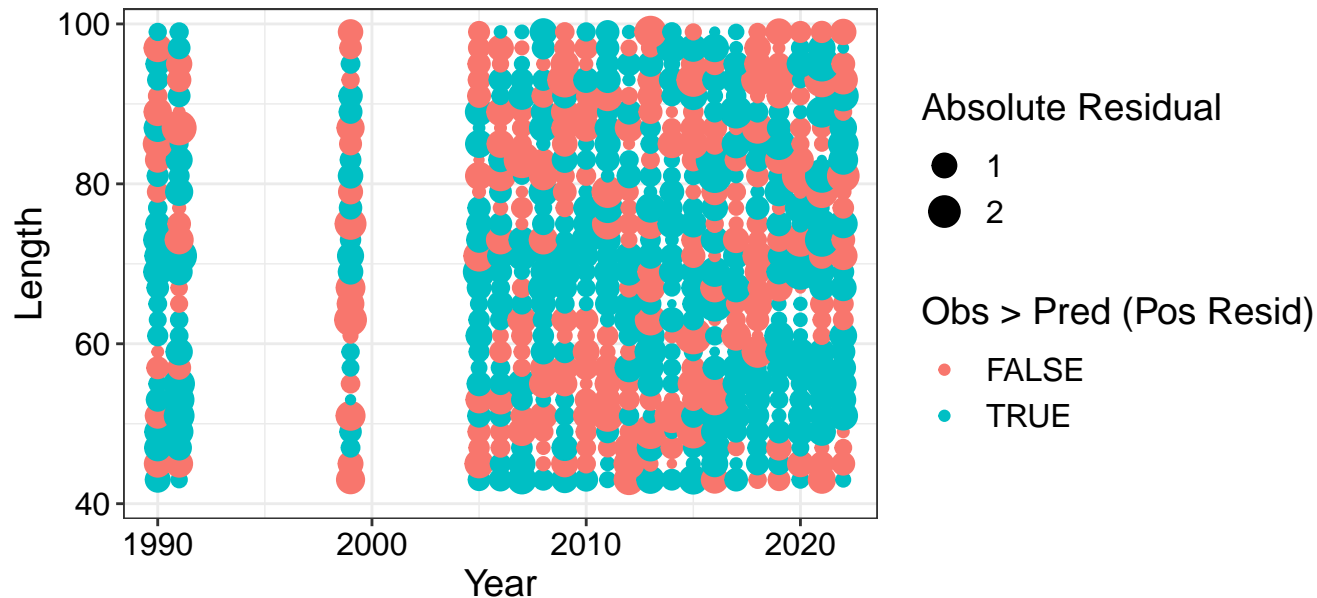
OSA Residuals for Fixed Gear Fishery Male Length Compositions (Remove 410)



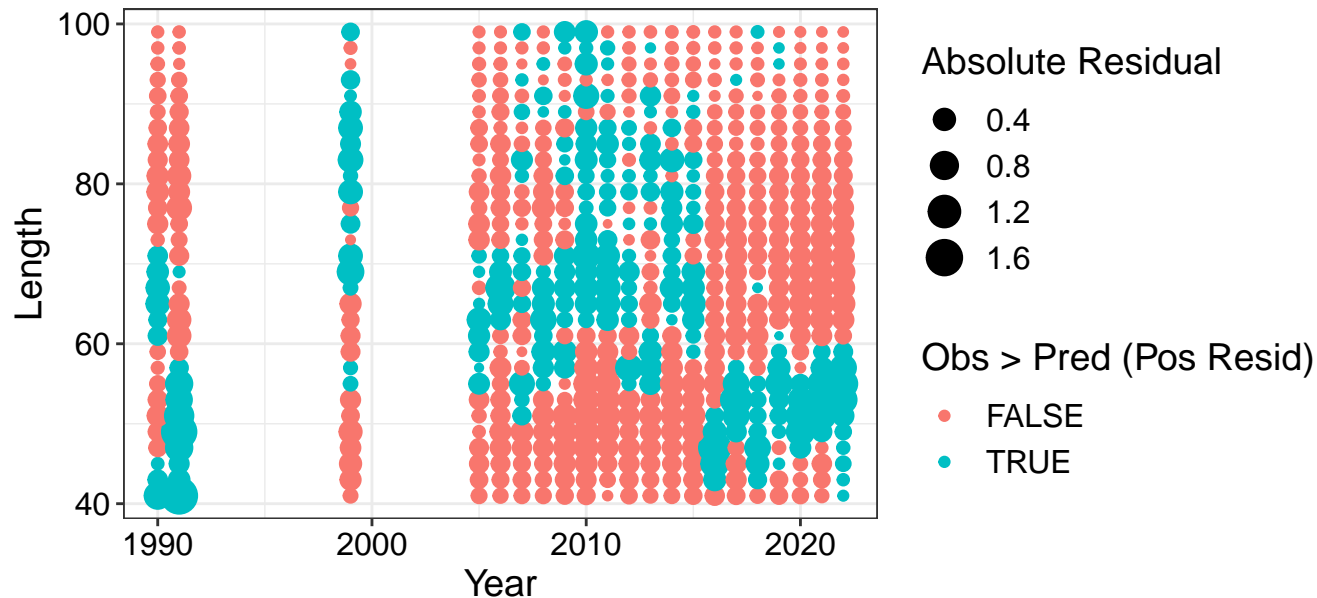
Pearson Residuals for Fixed Gear Fishery Male Length Compositions



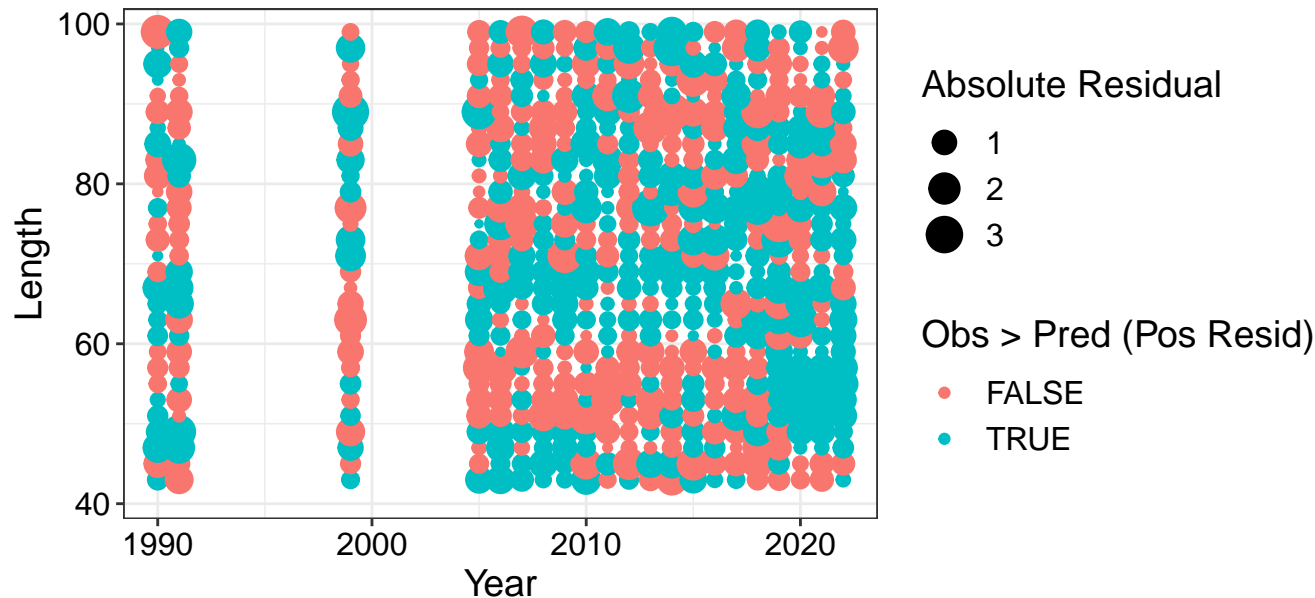
# OSA Residuals for Trawl Fishery Female Length Compositions (Remove 41cm E



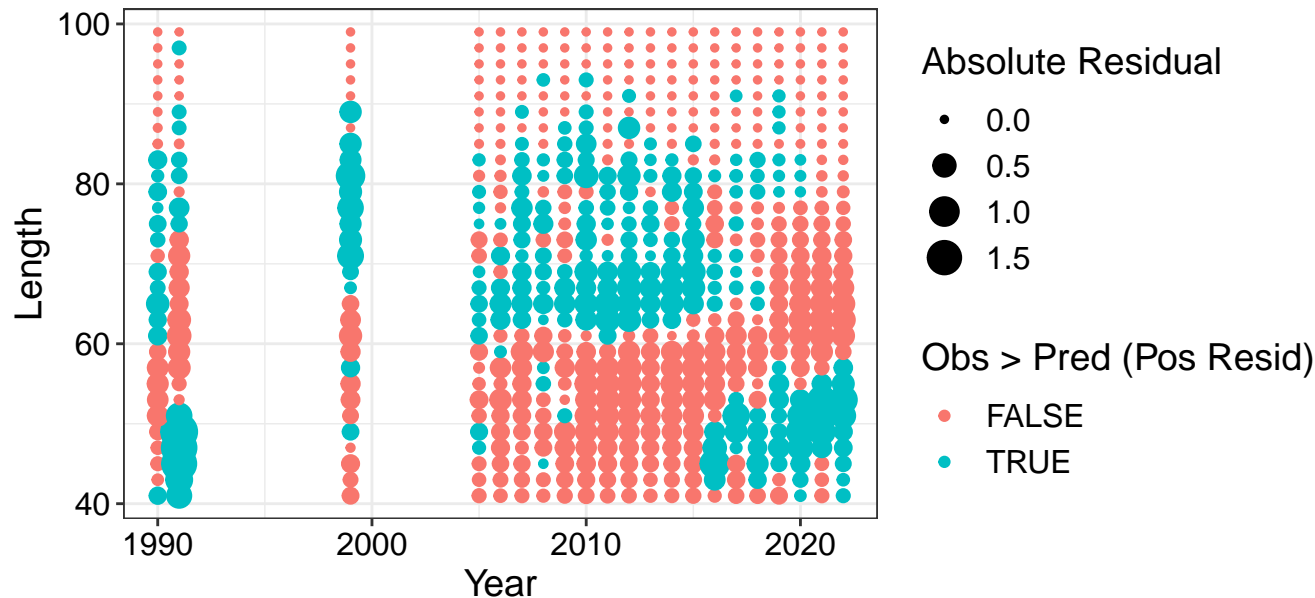
## Pearson Residuals for Trawl Fishery Female Length Compositions



# OSA Residuals for Trawl Fishery Male Length Compositions (Remove 41cm Bin)

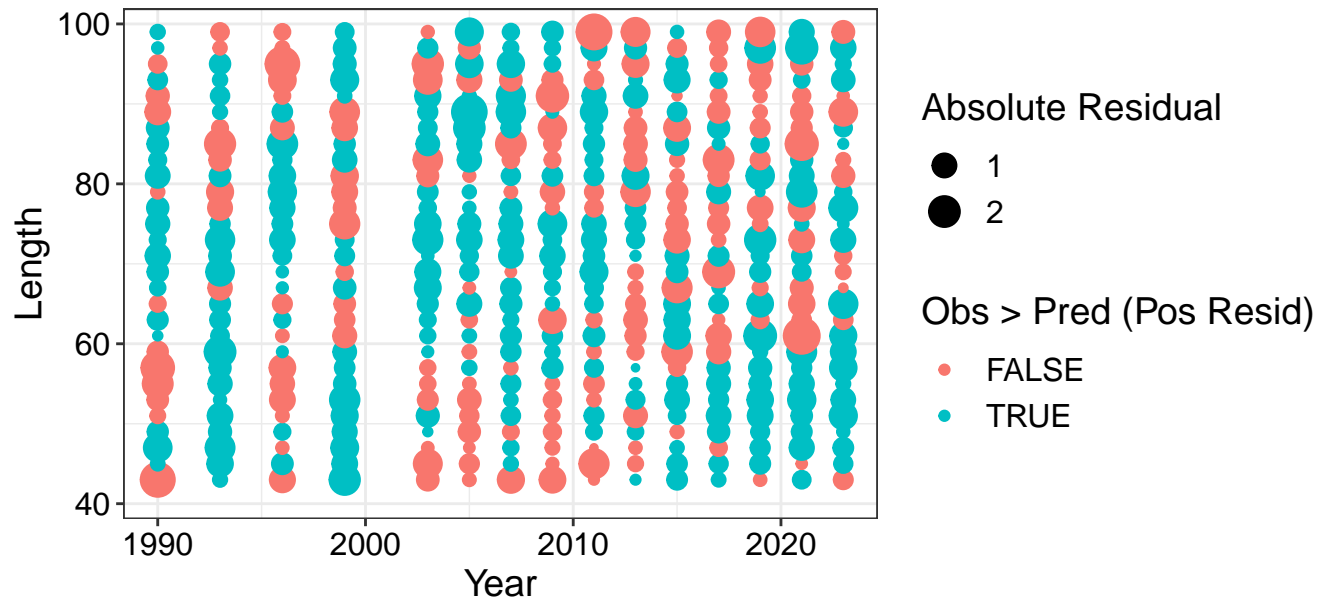


# Pearson Residuals for Trawl Fishery Male Length Compositions

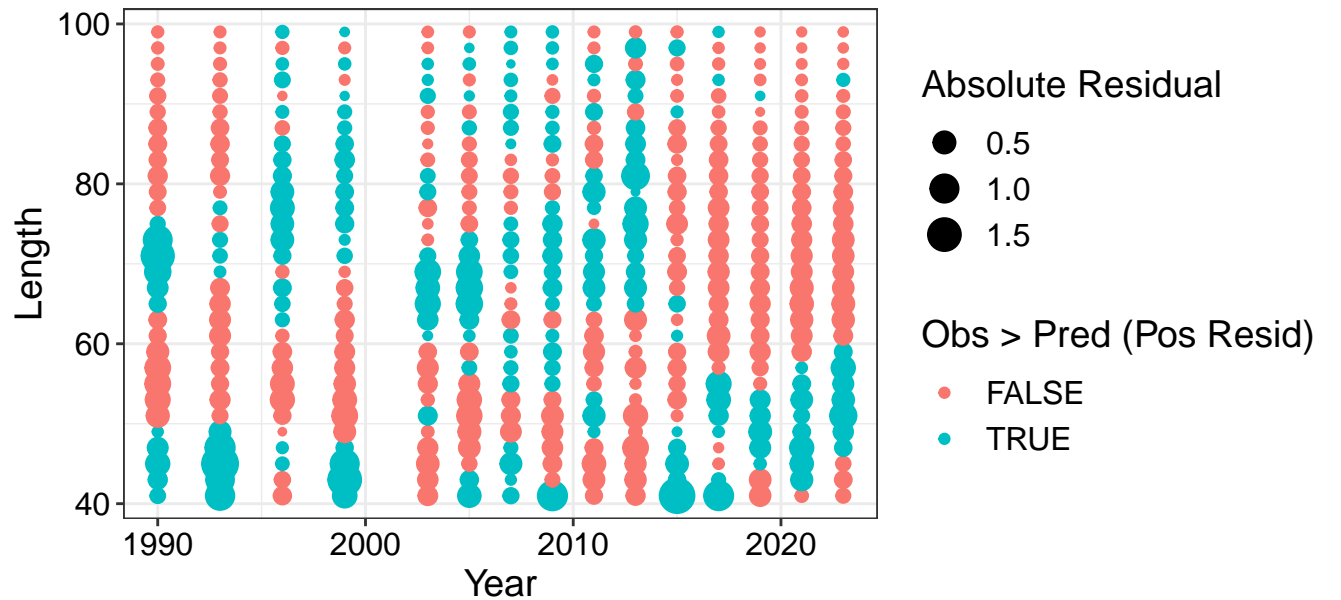




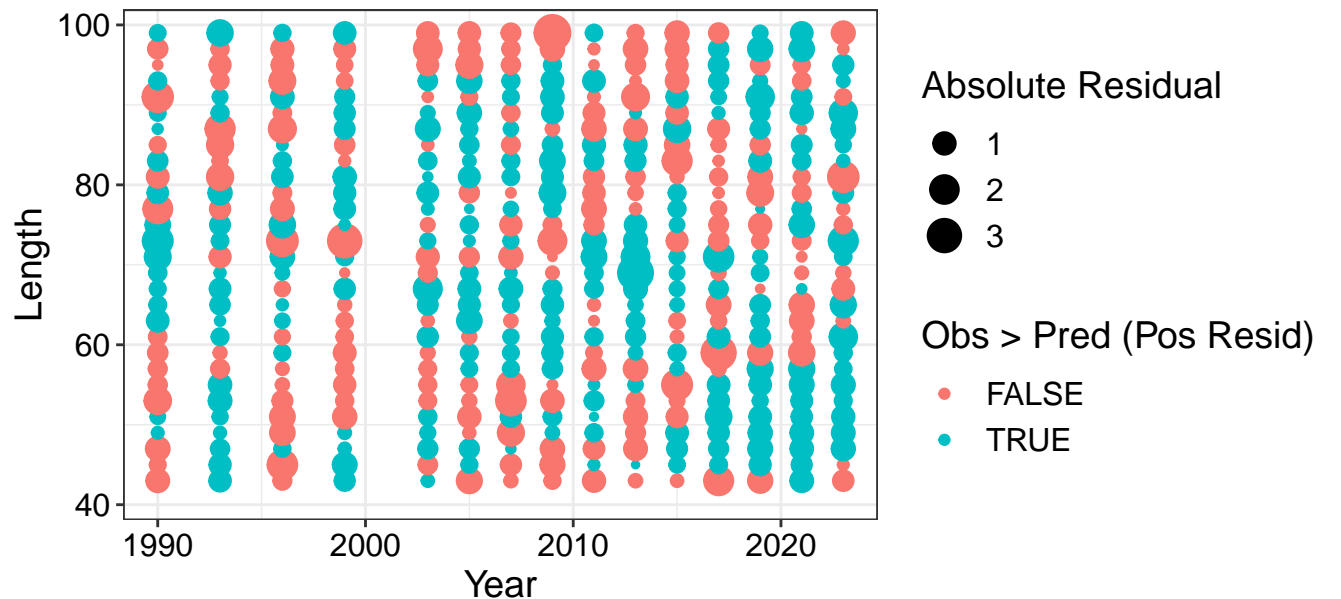
OSA Residuals for NOAA GOA Trawl Survey Female Length Compositions (Ren



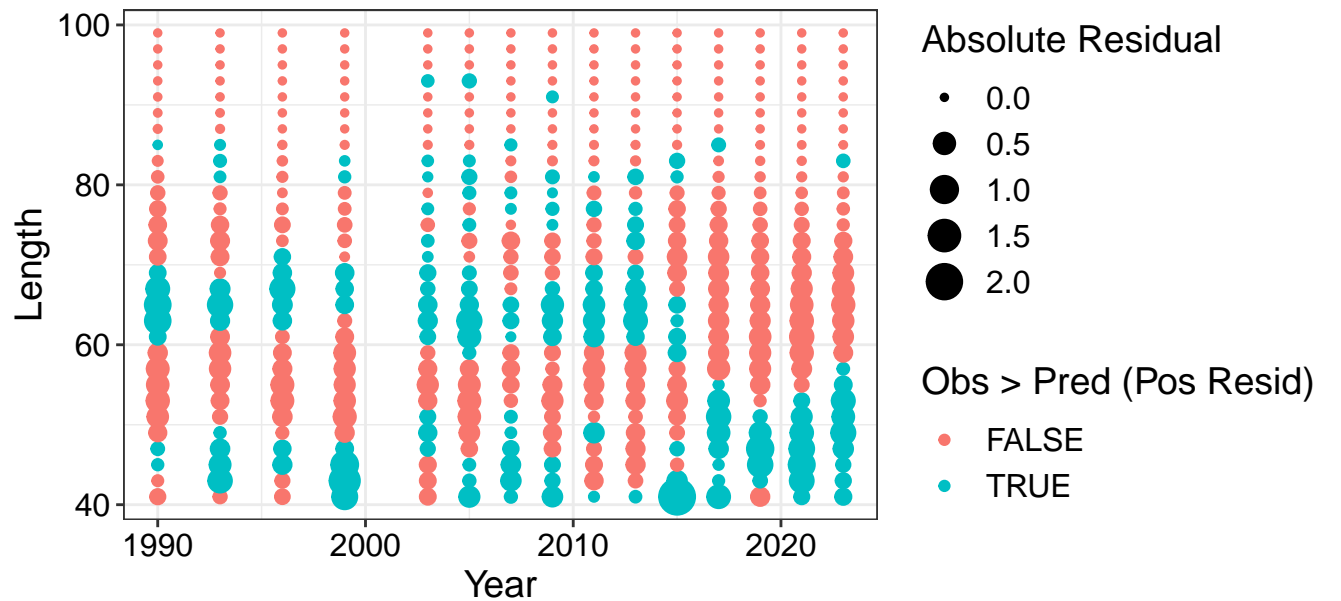
Pearson Residuals for NOAA GOA Trawl Survey Female Length Compositions



OSA Residuals for NOAA GOA Trawl Survey Male Length Compositions (Remo



Pearson Residuals for NOAA GOA Trawl Survey Male Length Compositions



Trends in Abundance by Age Group on the Domestic Longline Survey

