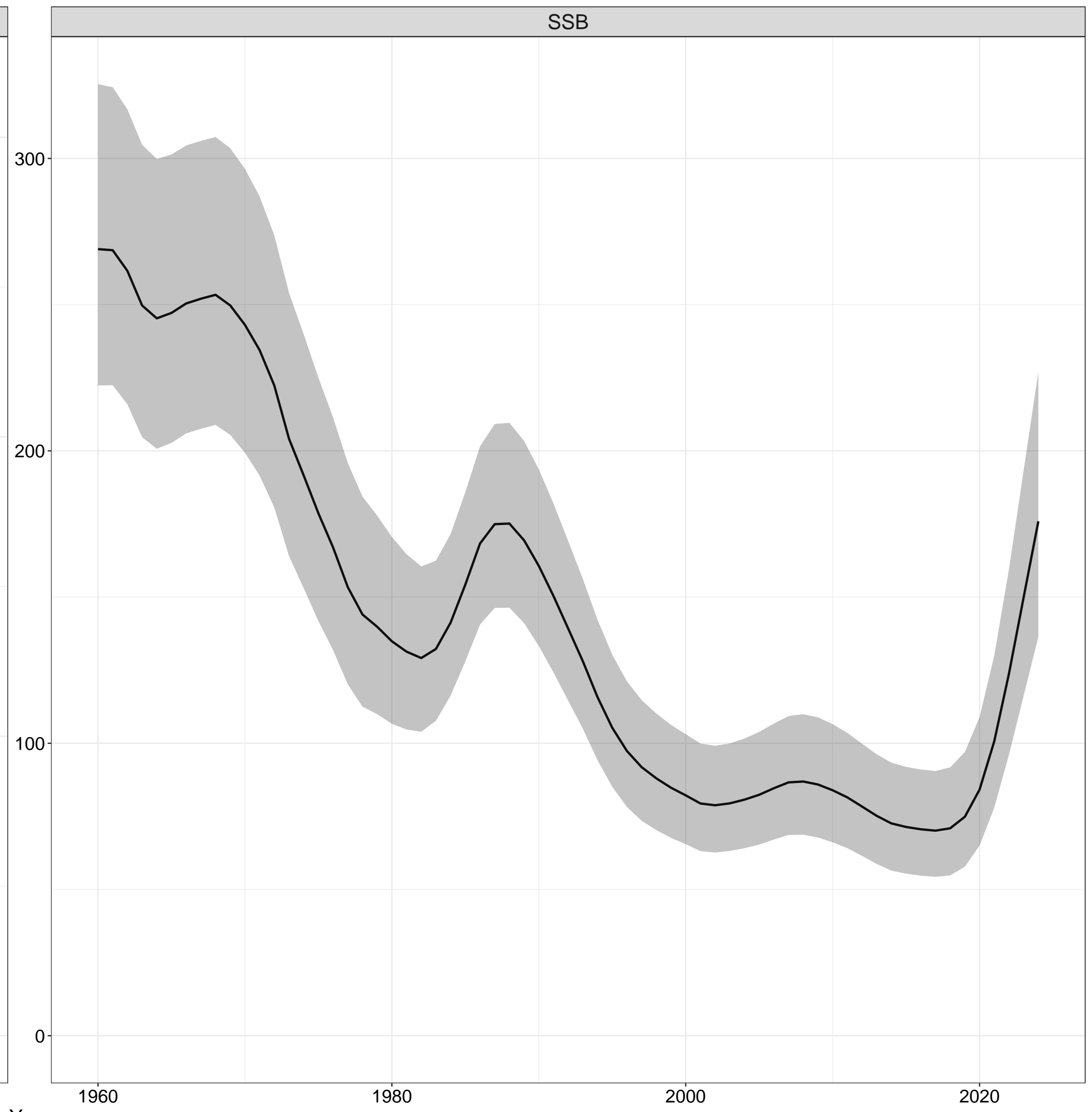
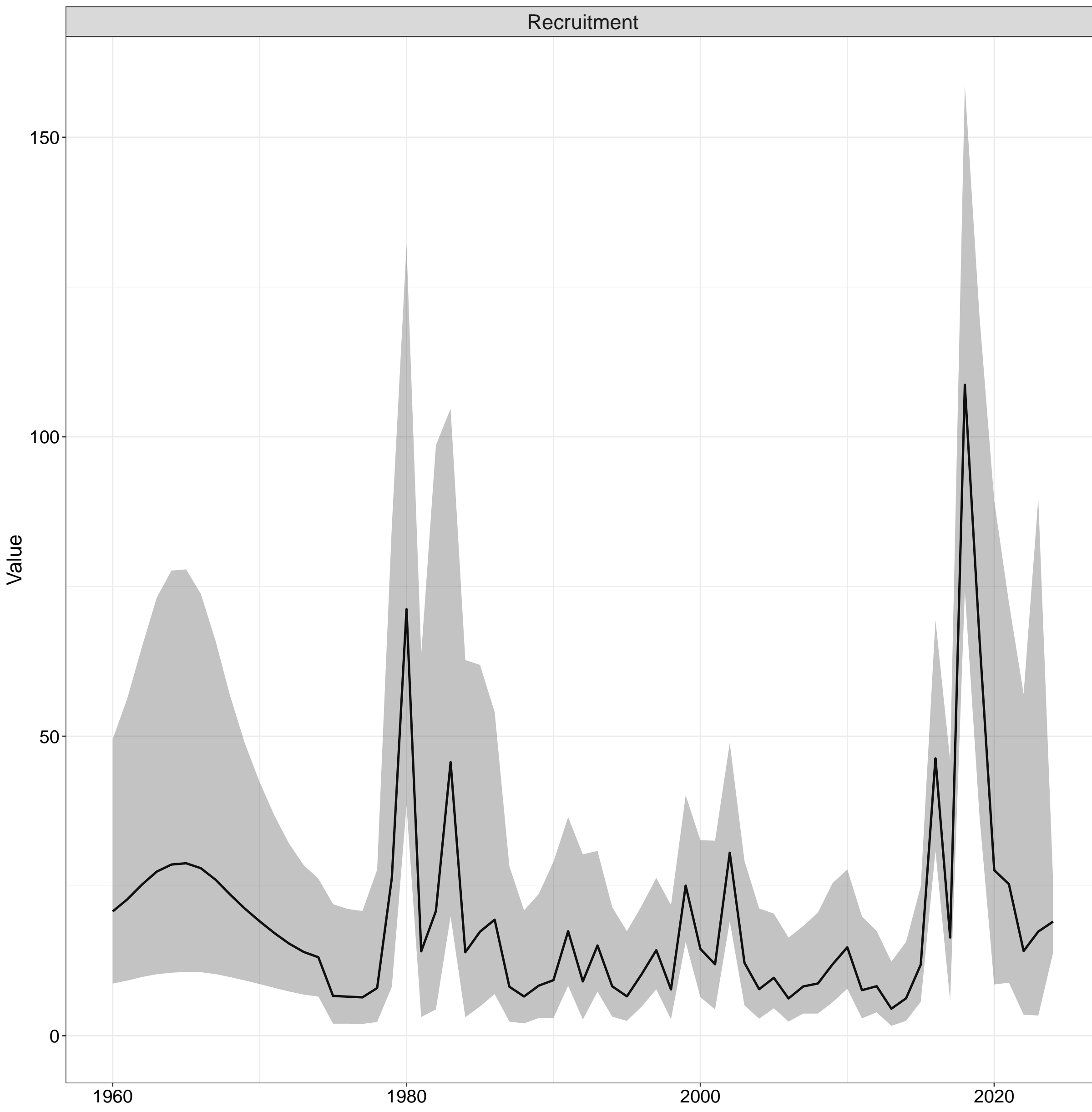


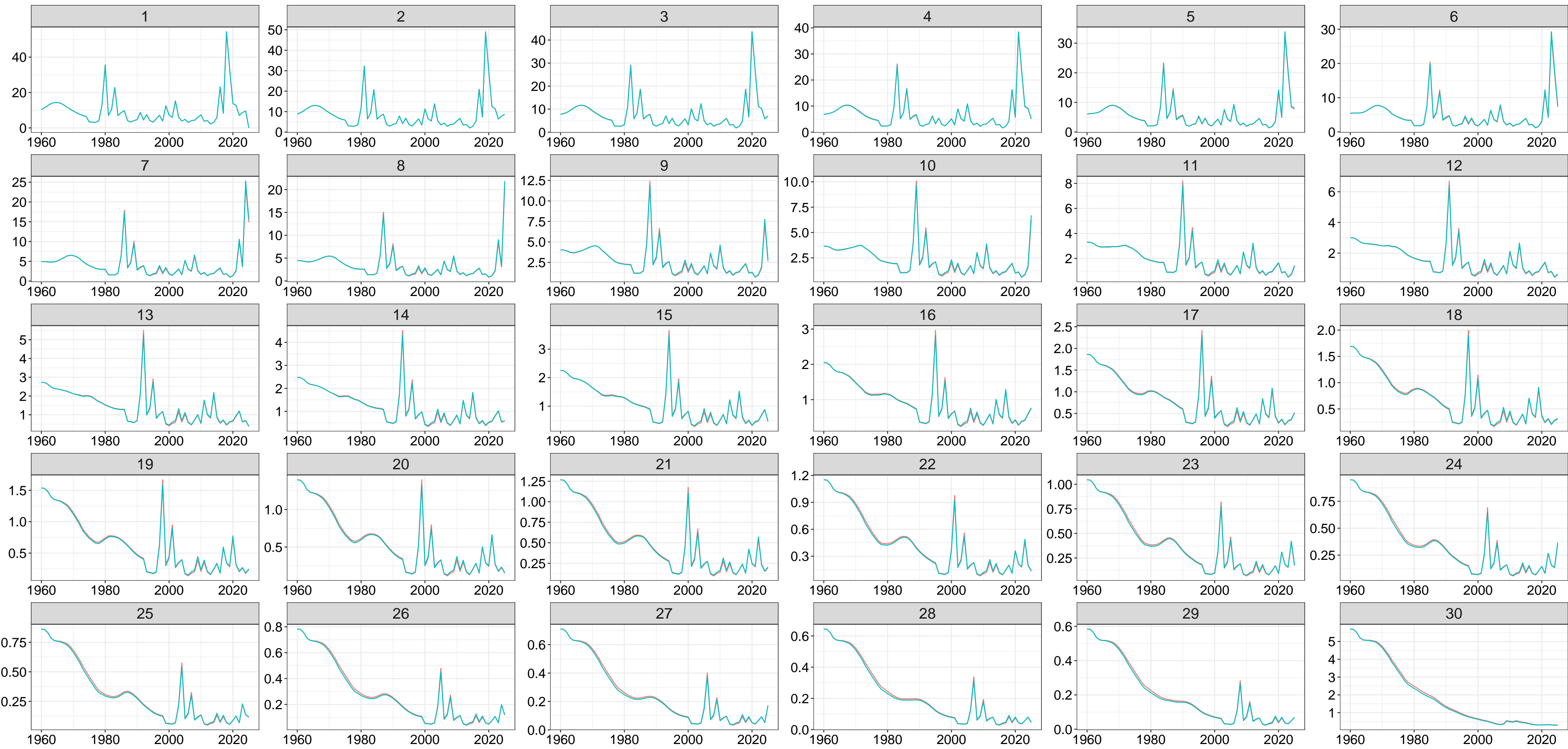
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	1	1	175.90778	0.0545366819299033	35.85894	125.71202	0.08381	1.39929	0.65072



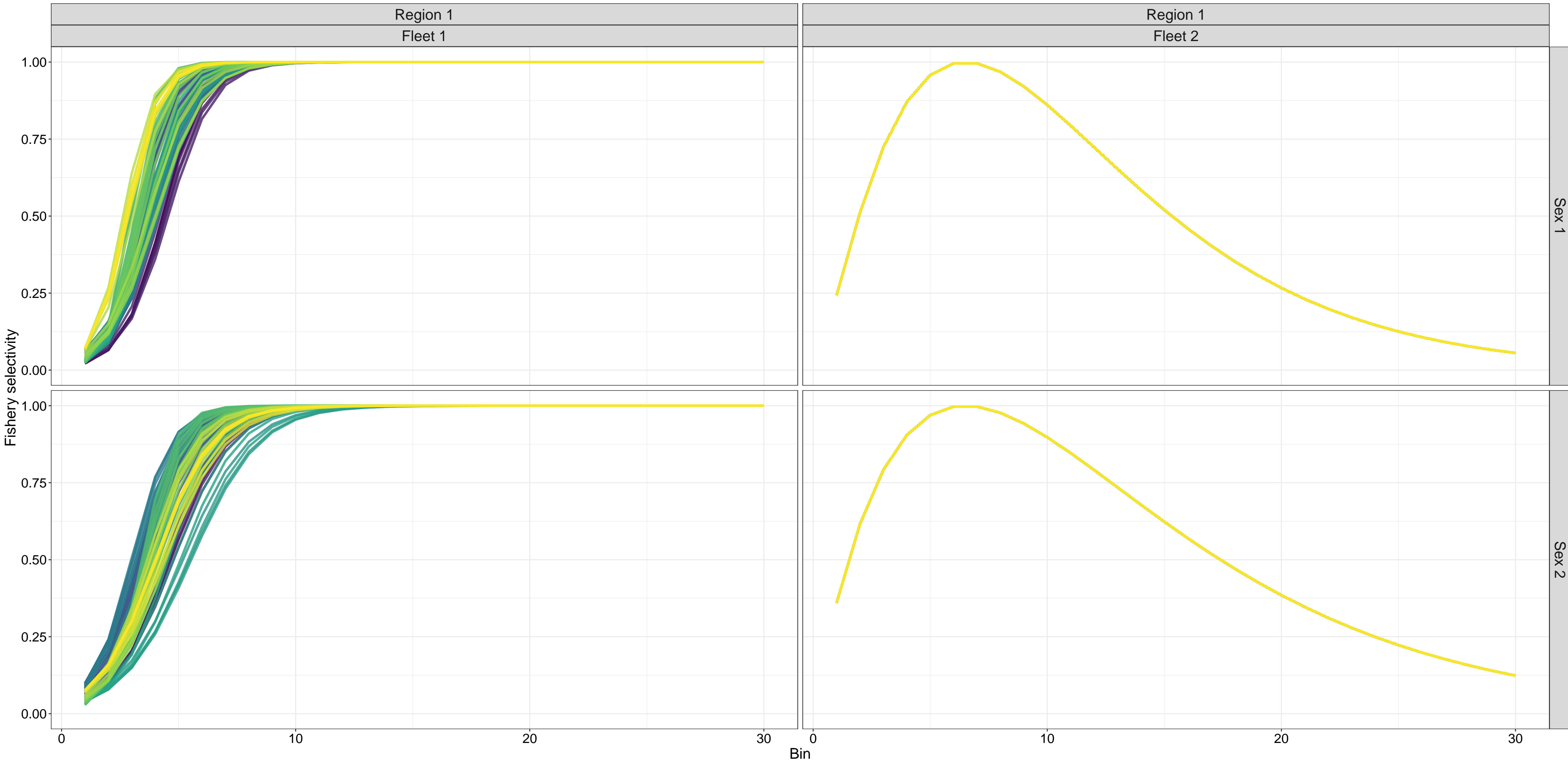
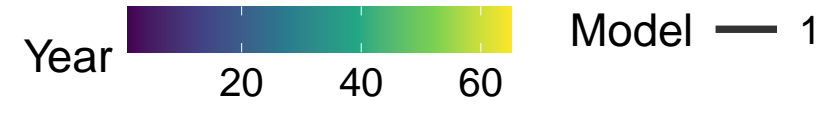
# Numbers-at-Age

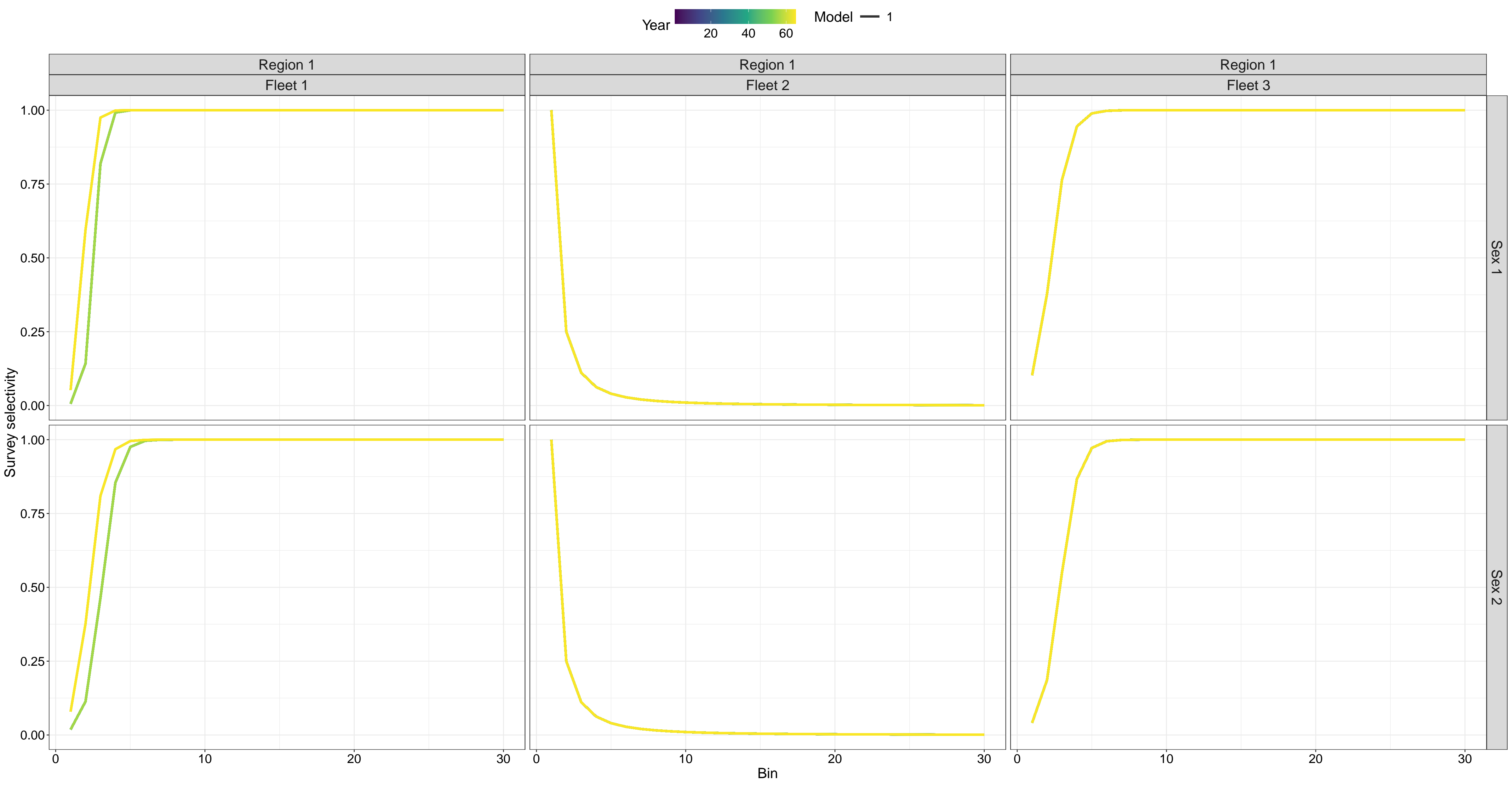
Sex — Female — Male

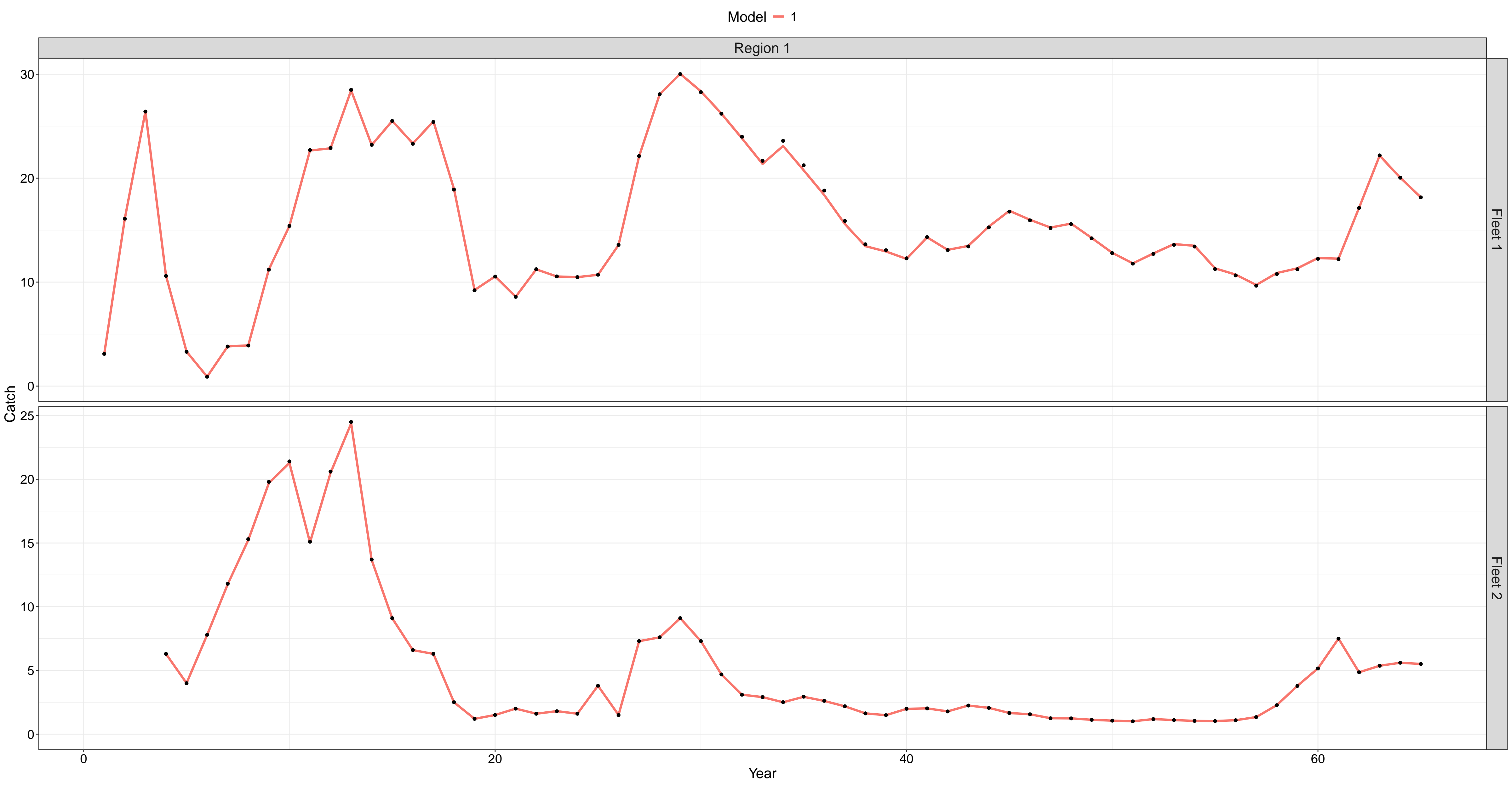
Numbers-at-age (millions)



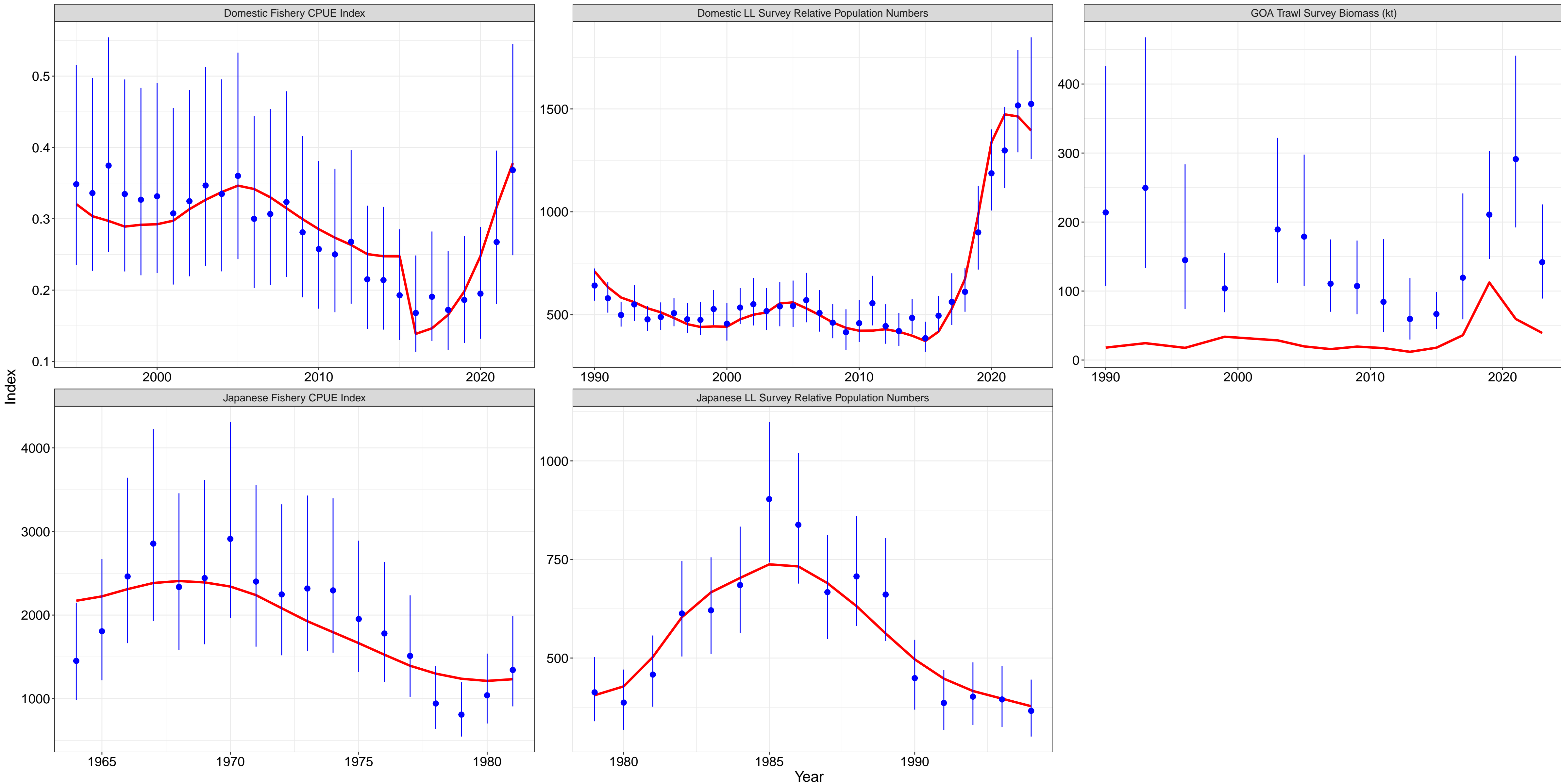
Year



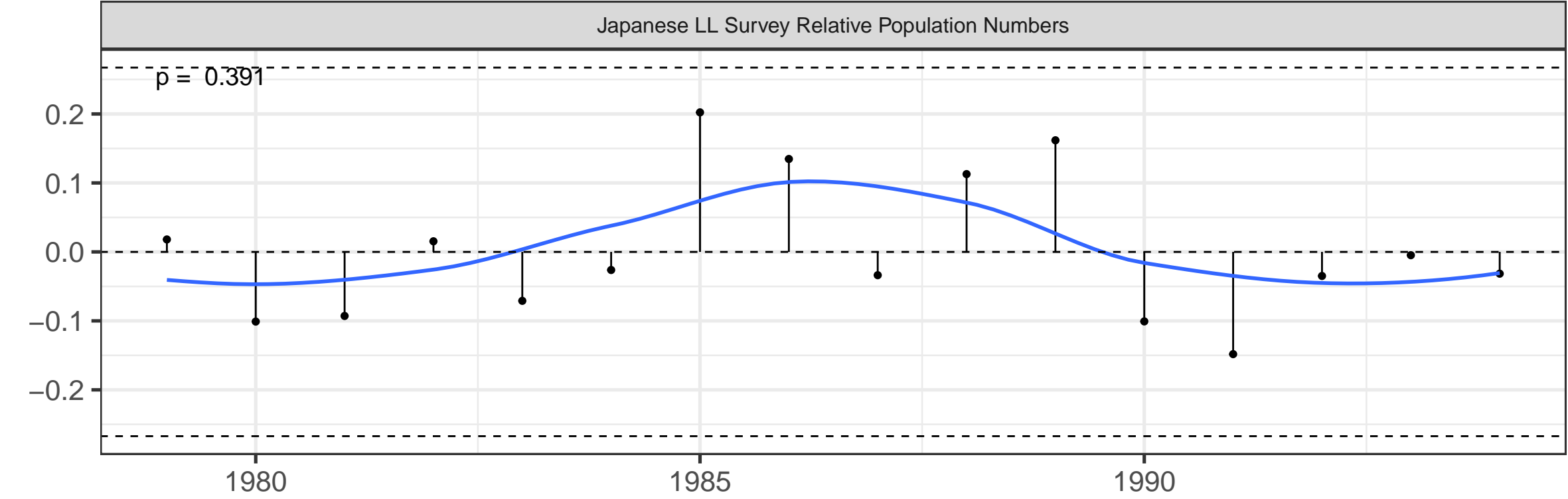
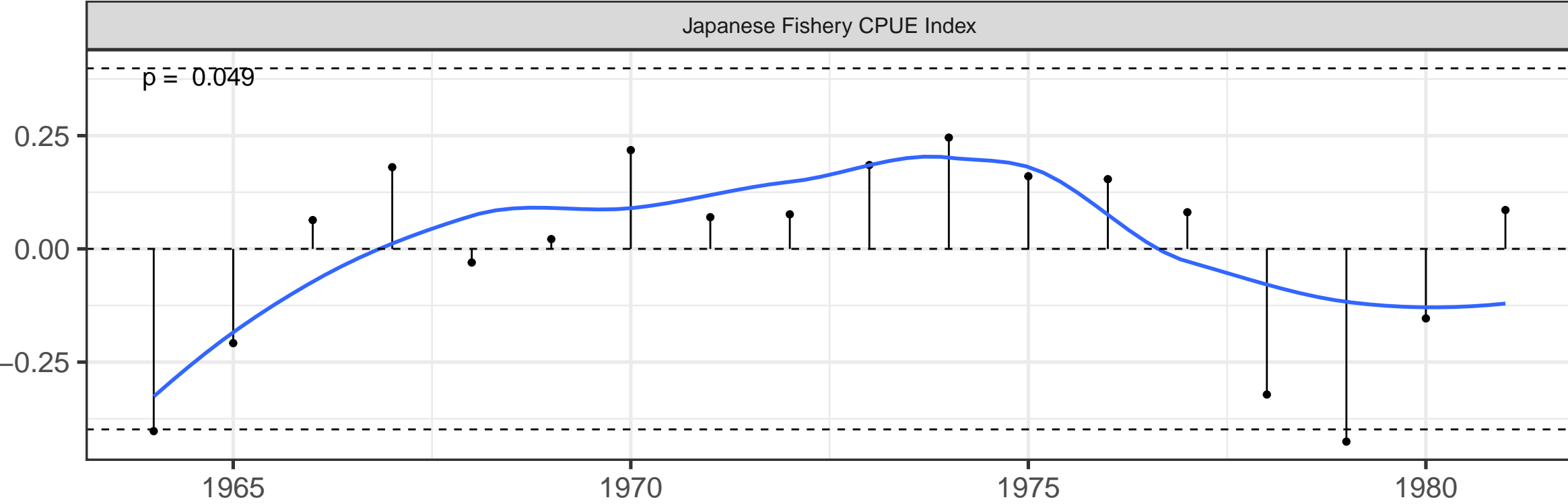
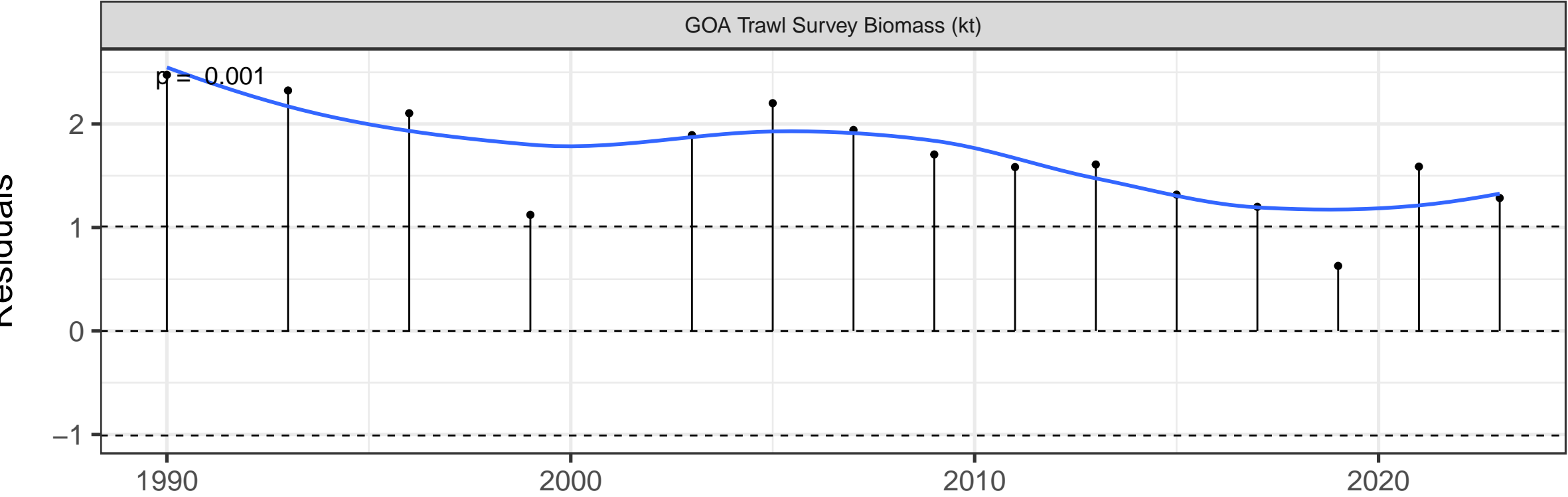
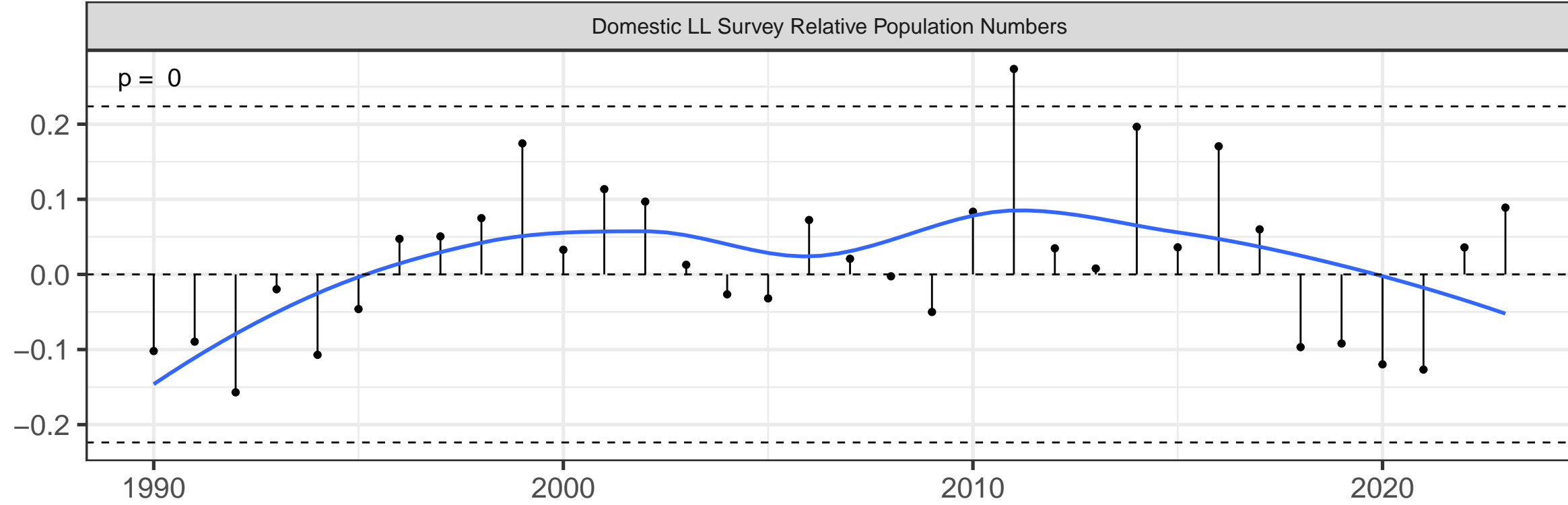
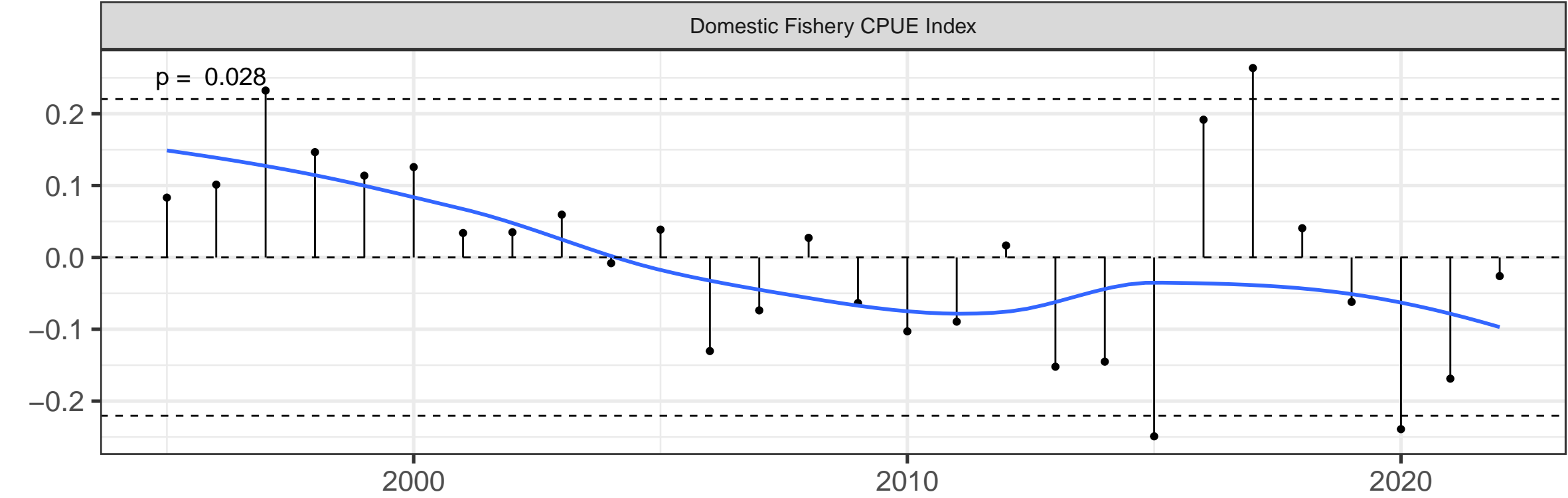




# Index Fits



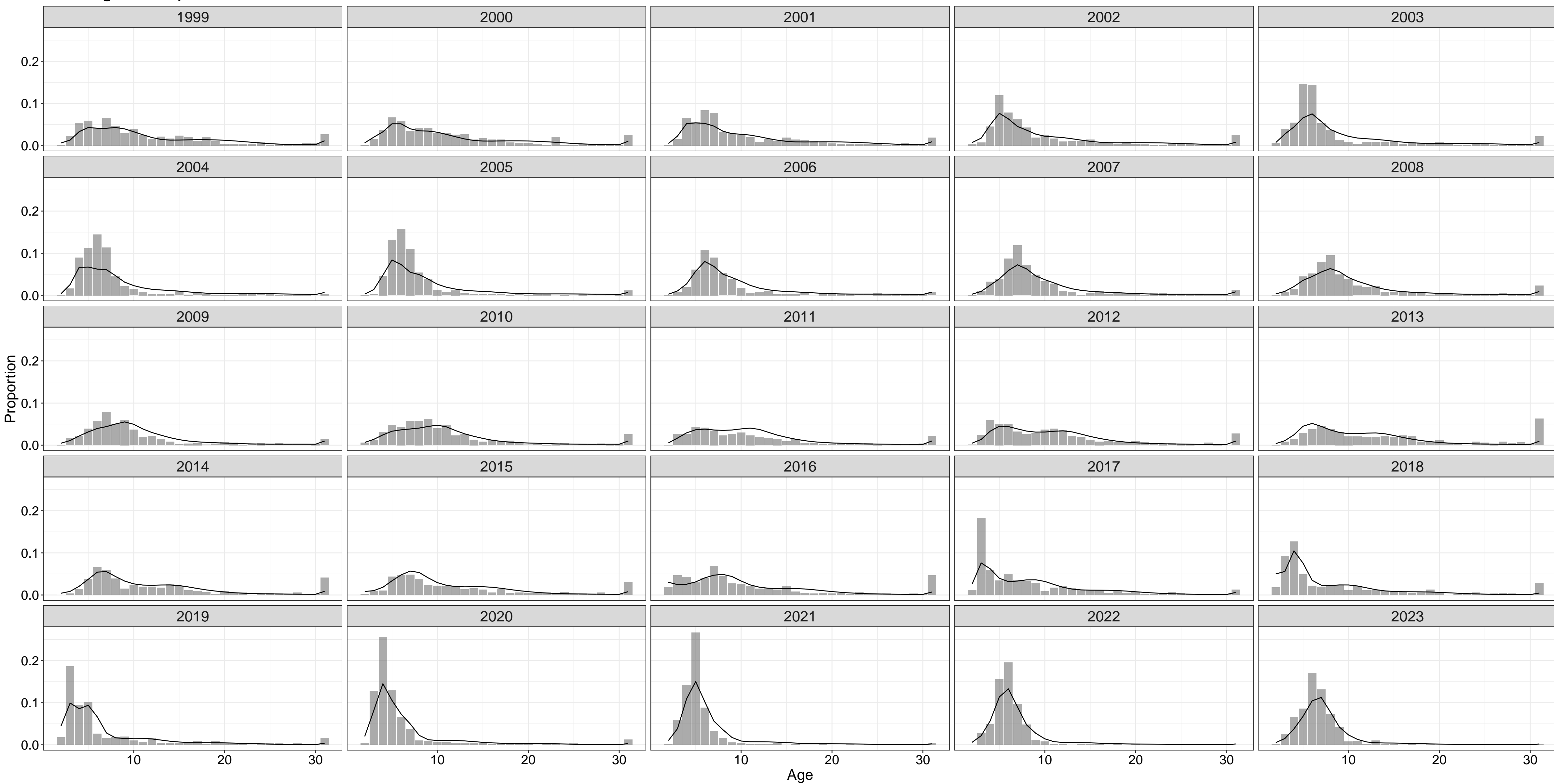
# Index Residuals Runs Test



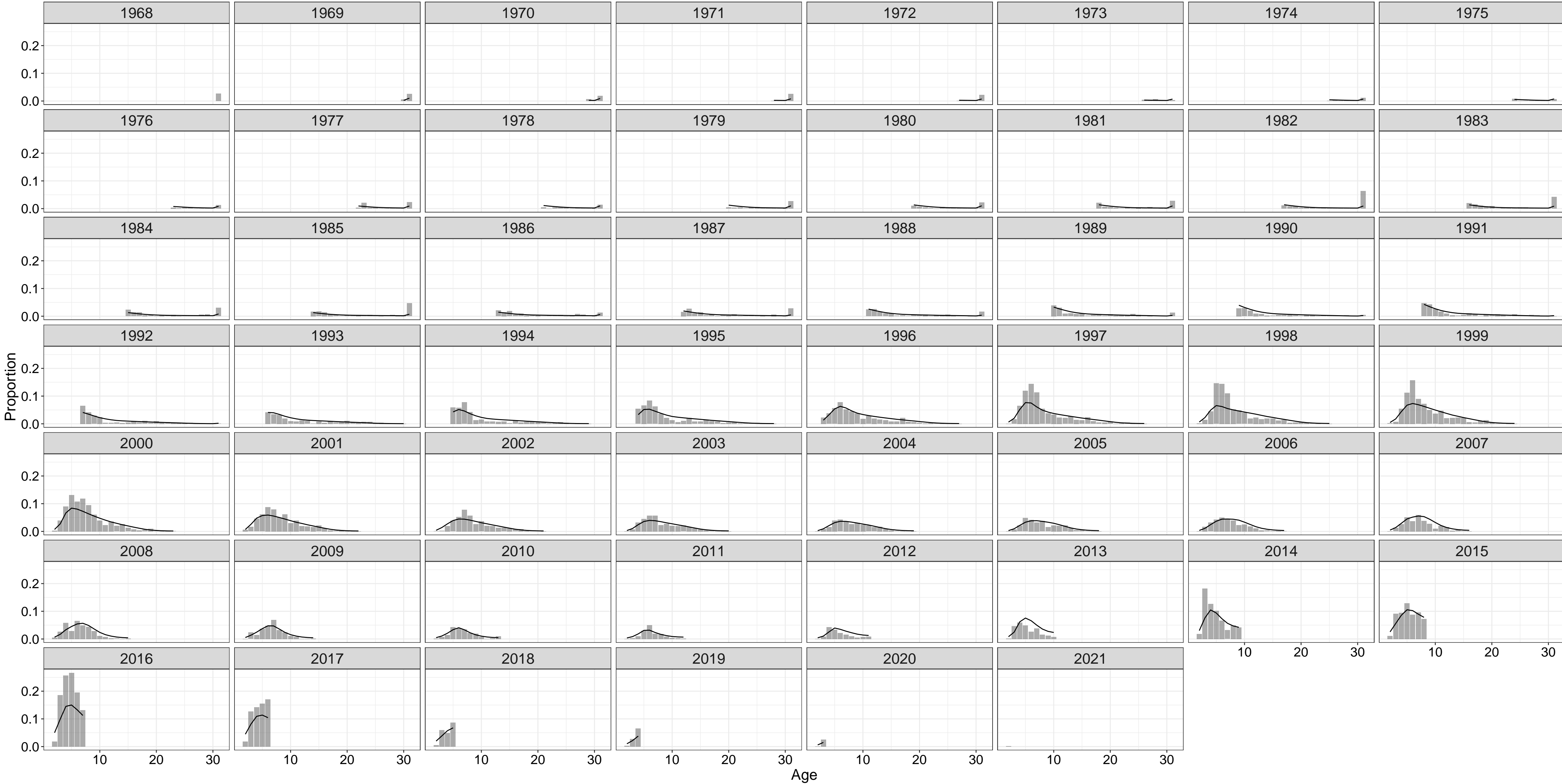
Year



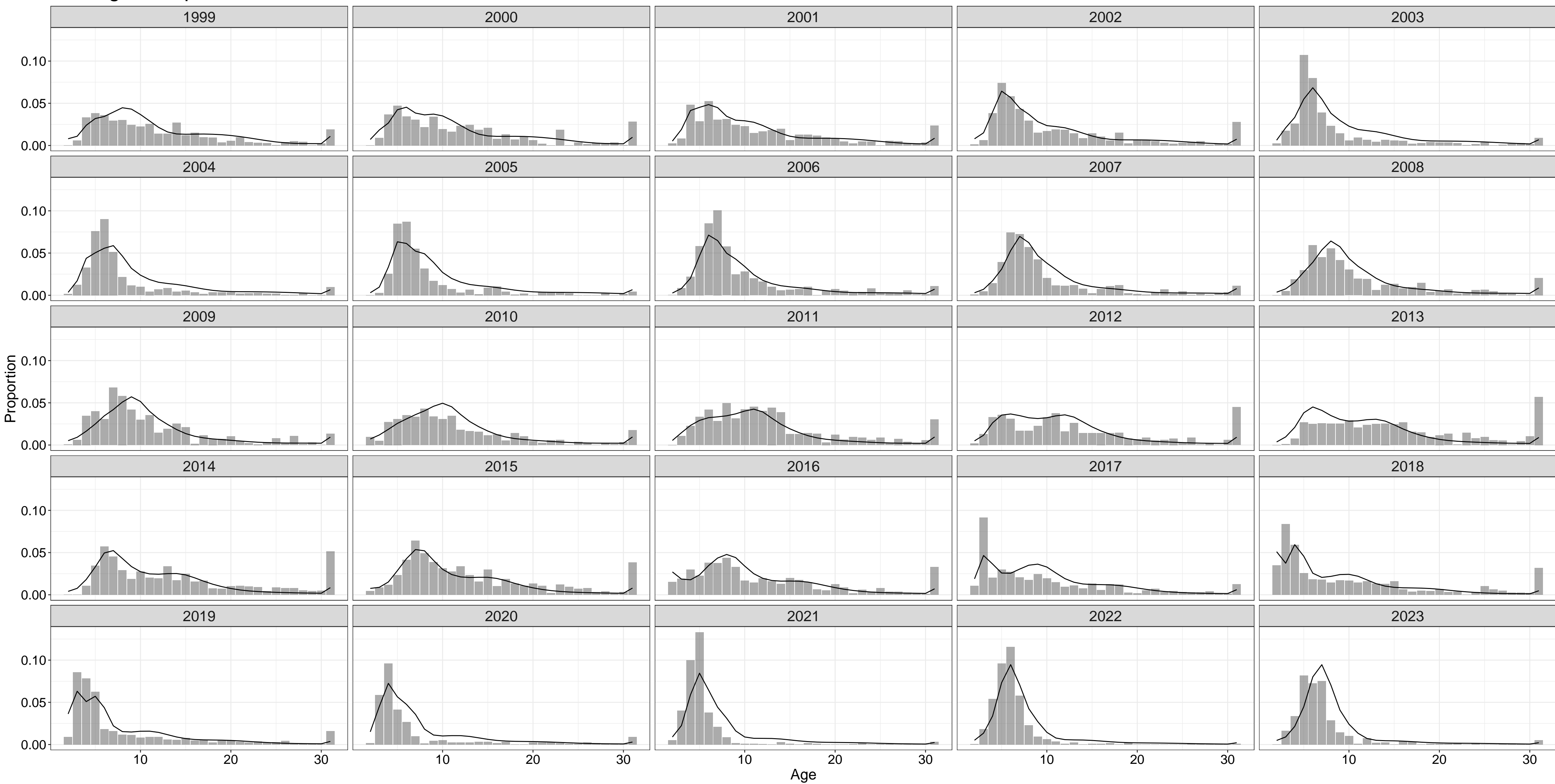
# LLF Age Comps Female



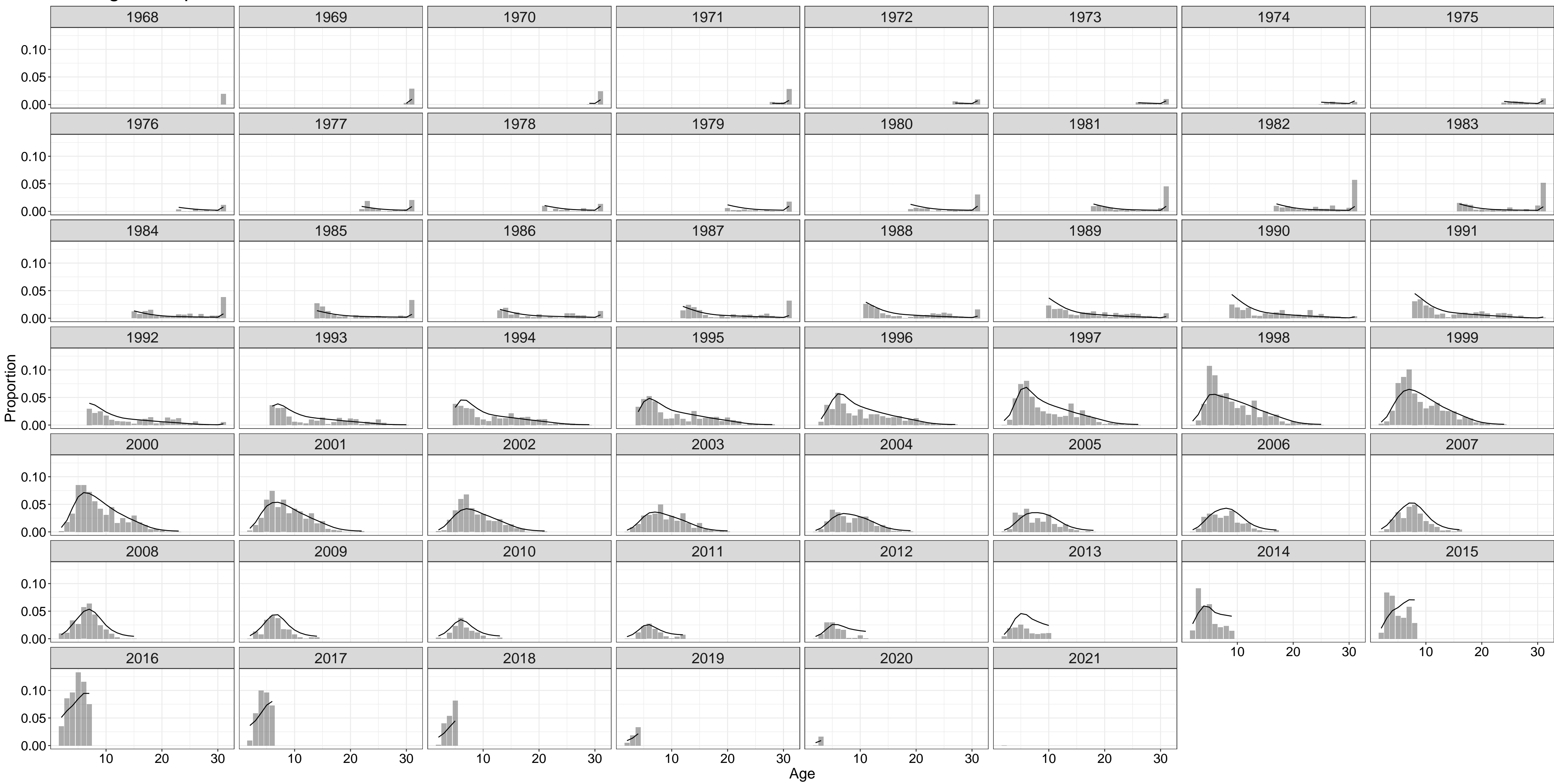
LLF Age Comps Cohort Fits Female



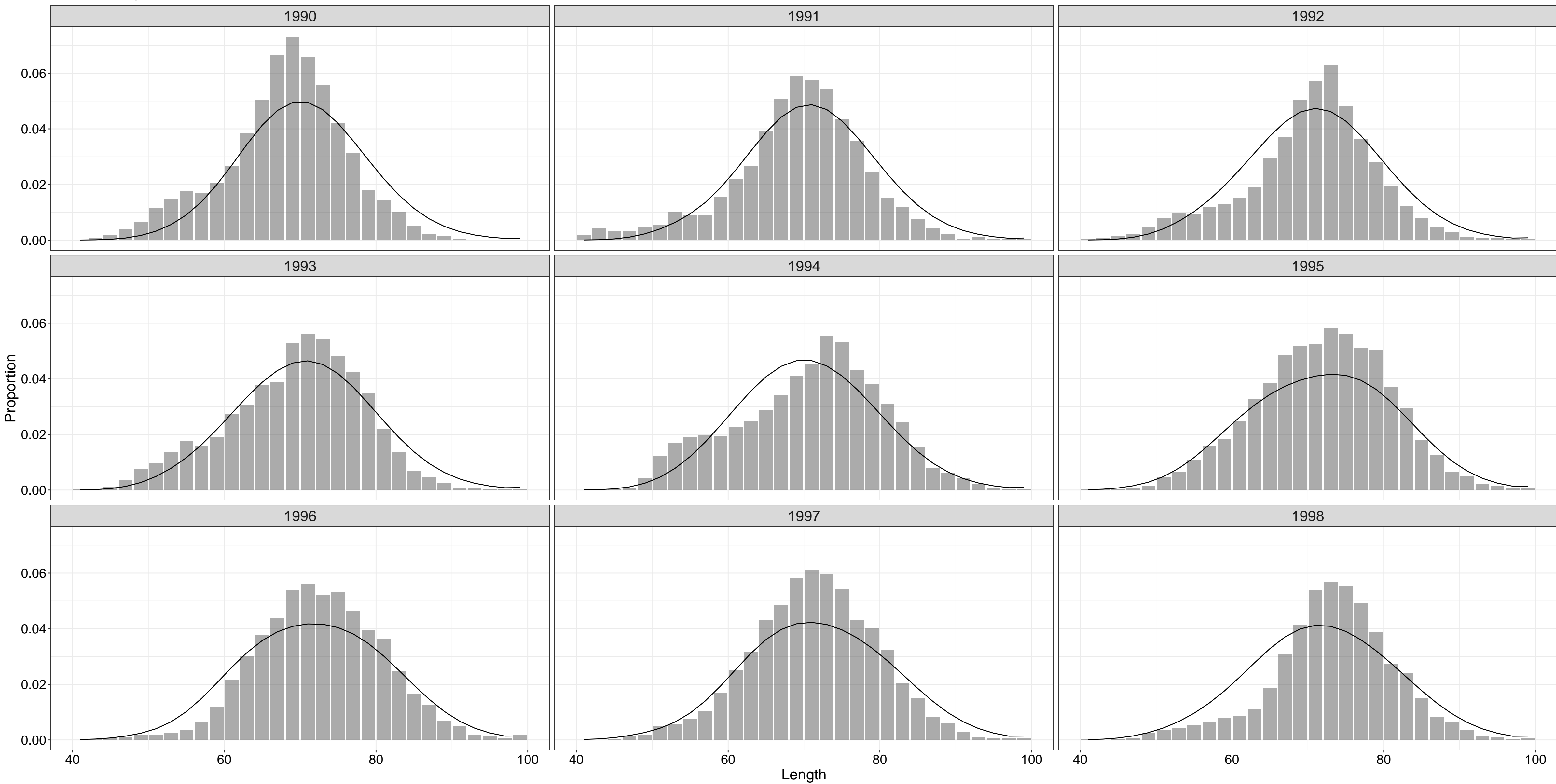
# LLF Age Comps Male



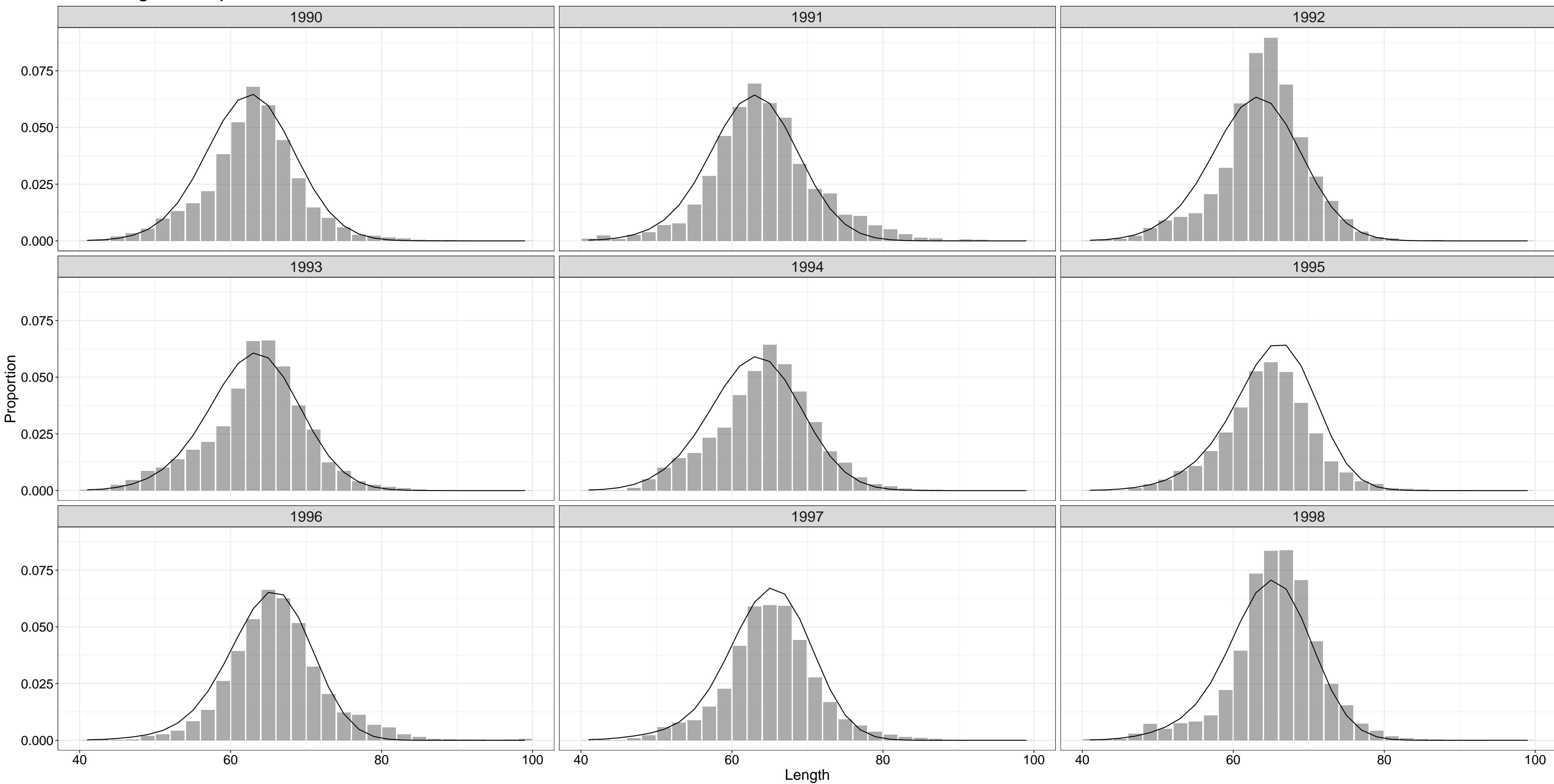
# LLF Age Comps Cohort Fits Male



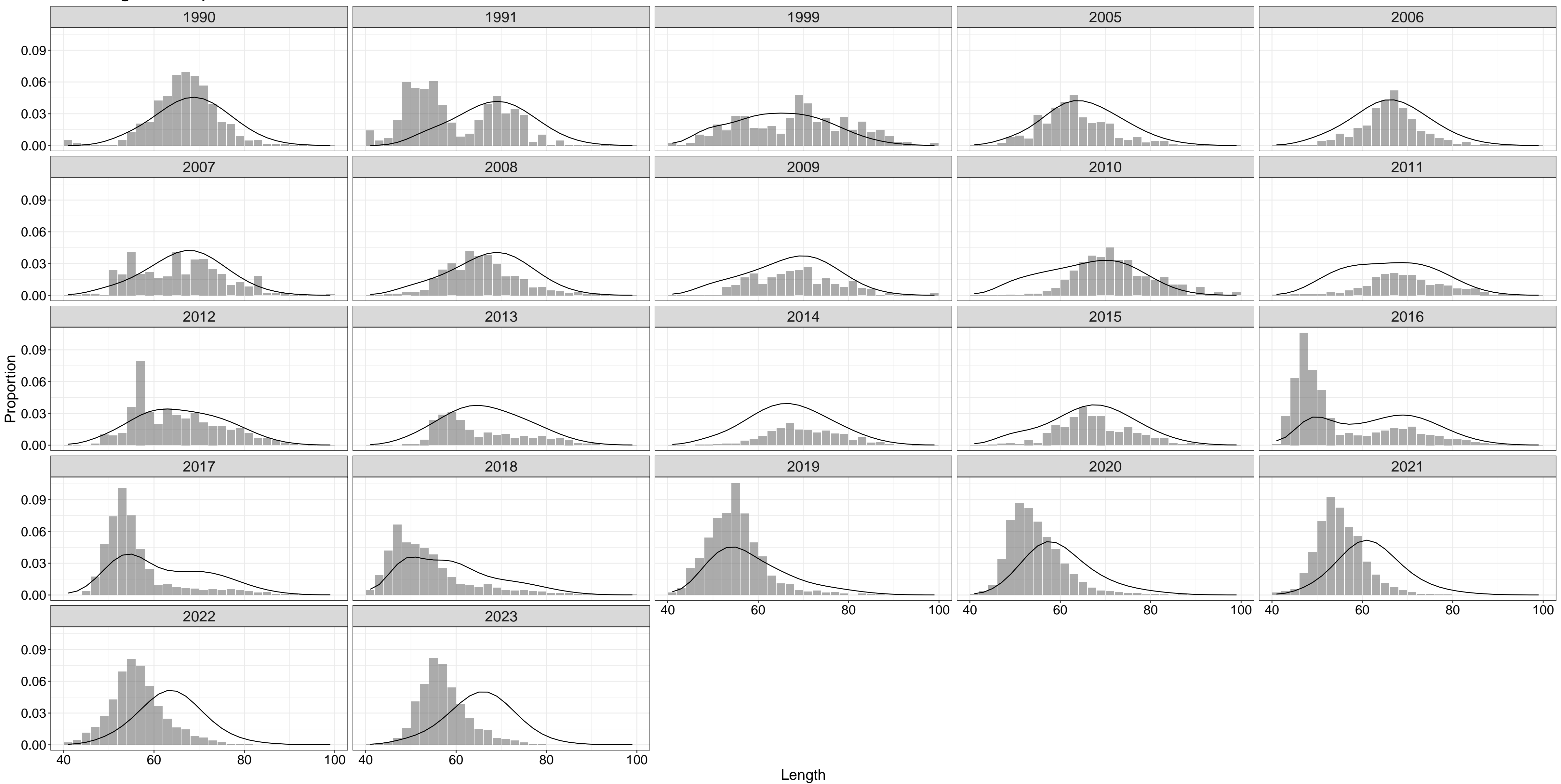
# LLF Length Comps Female



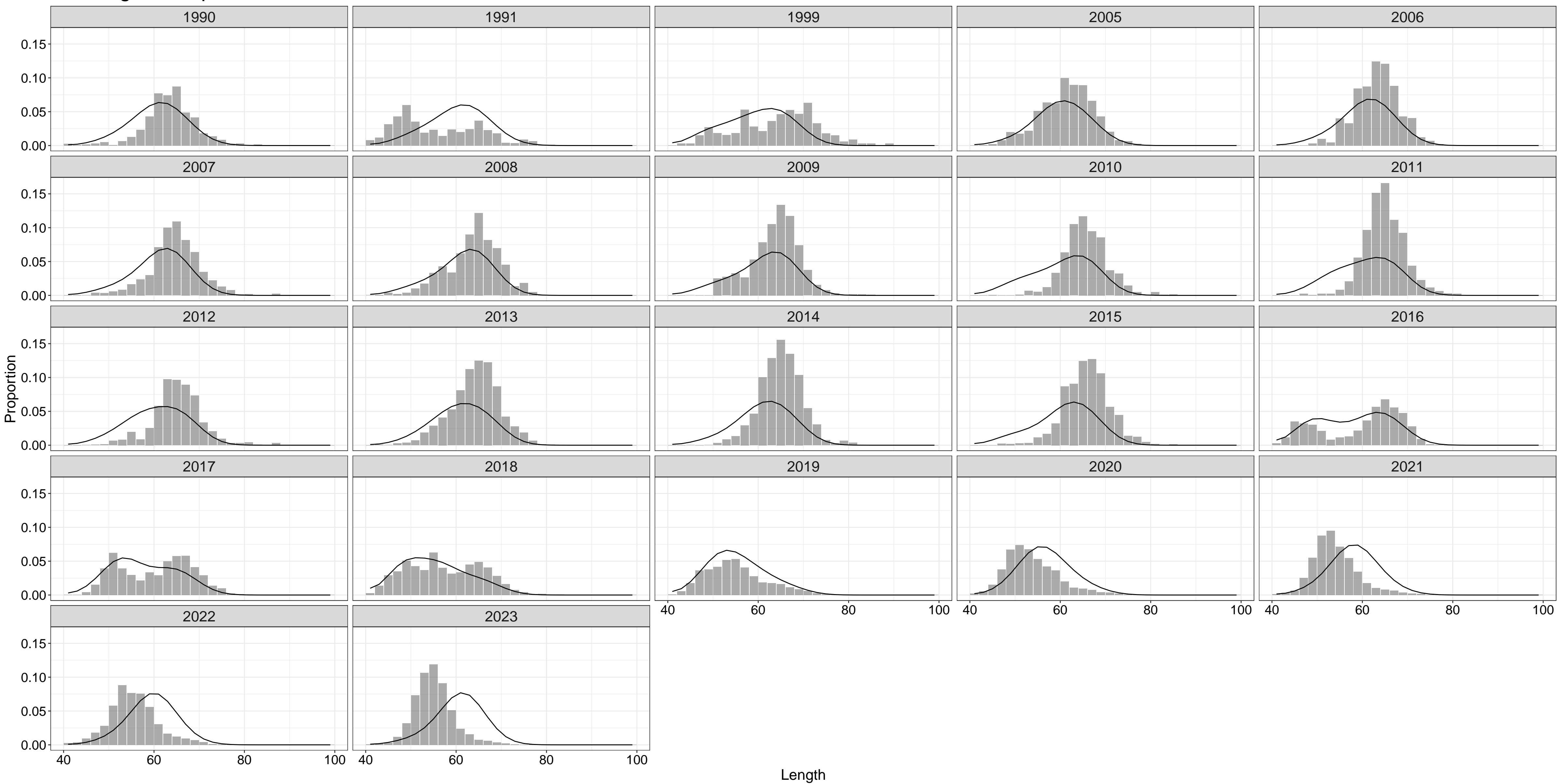
# LLF Length Comps Male



# TF Length Comps Female

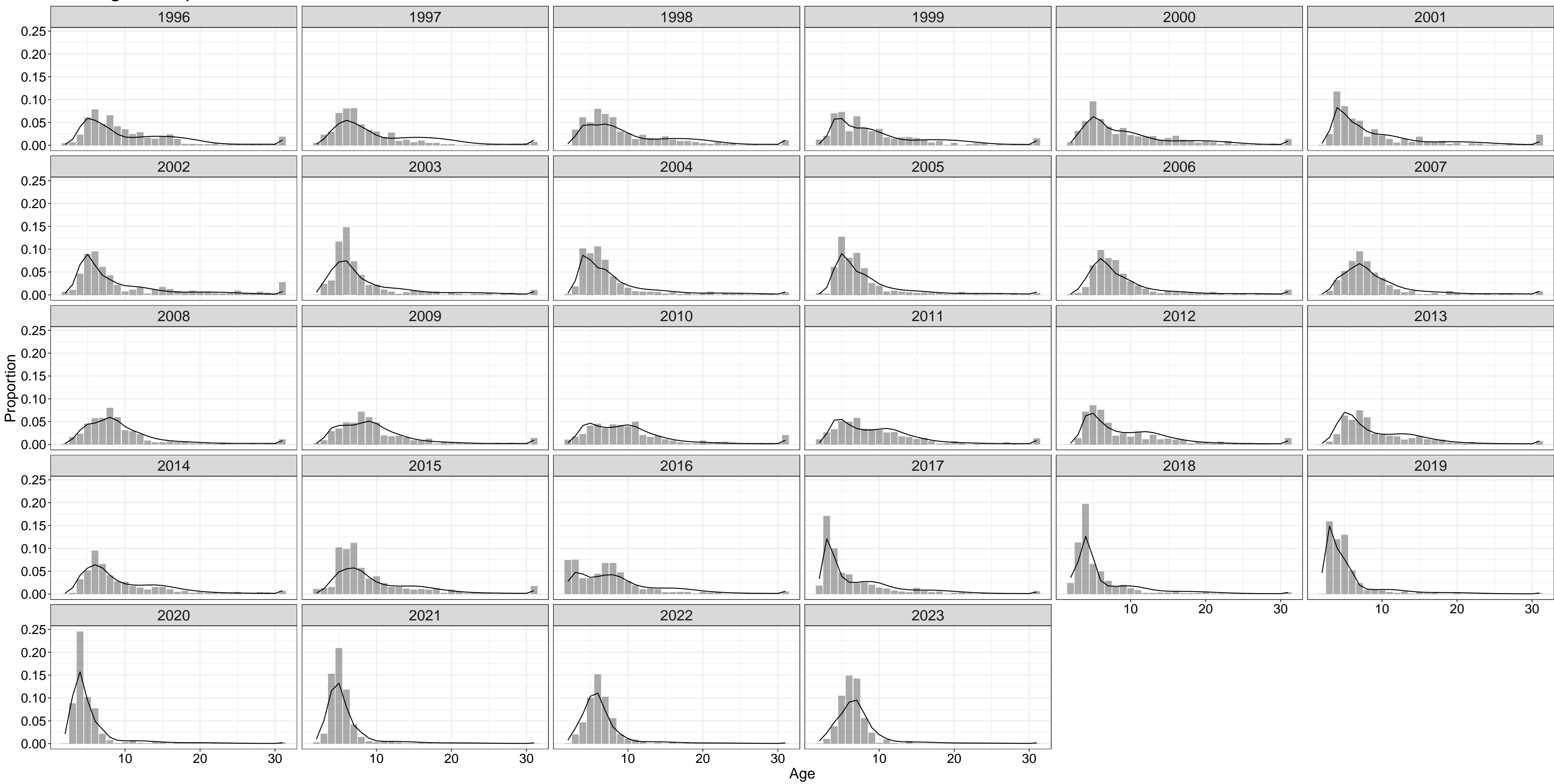


# TF Length Comps Male

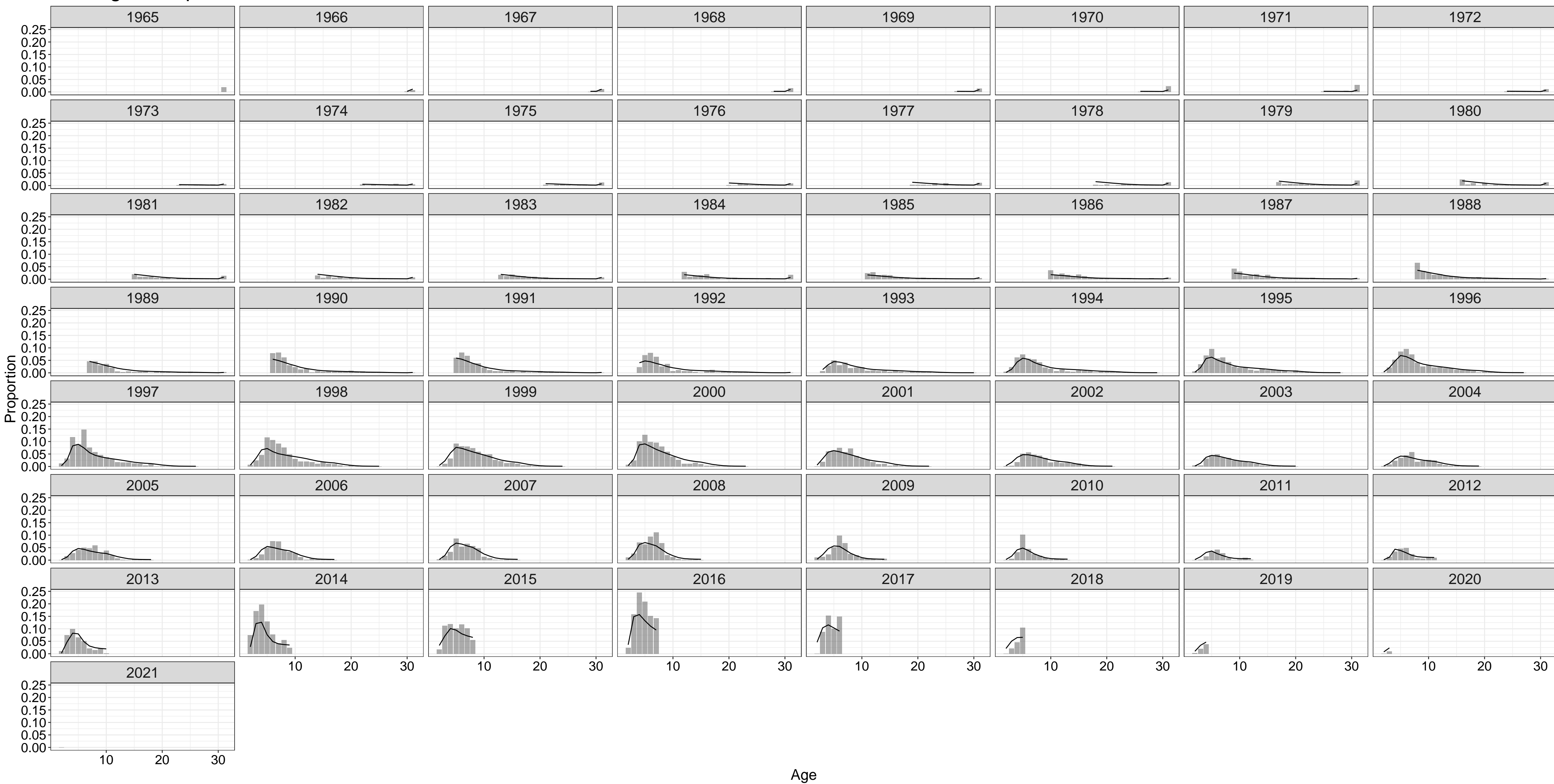




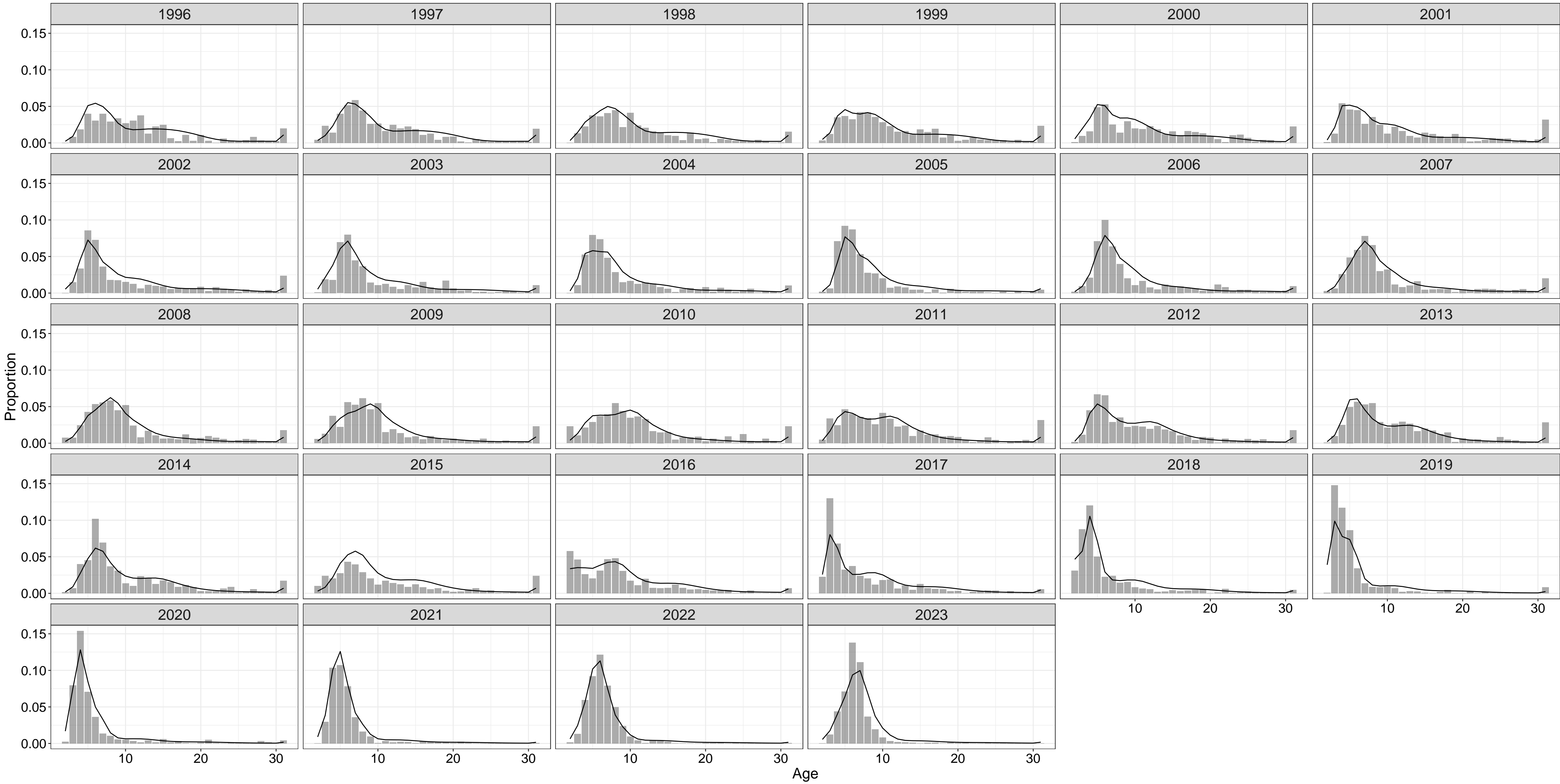
# LLS Age Comps Female



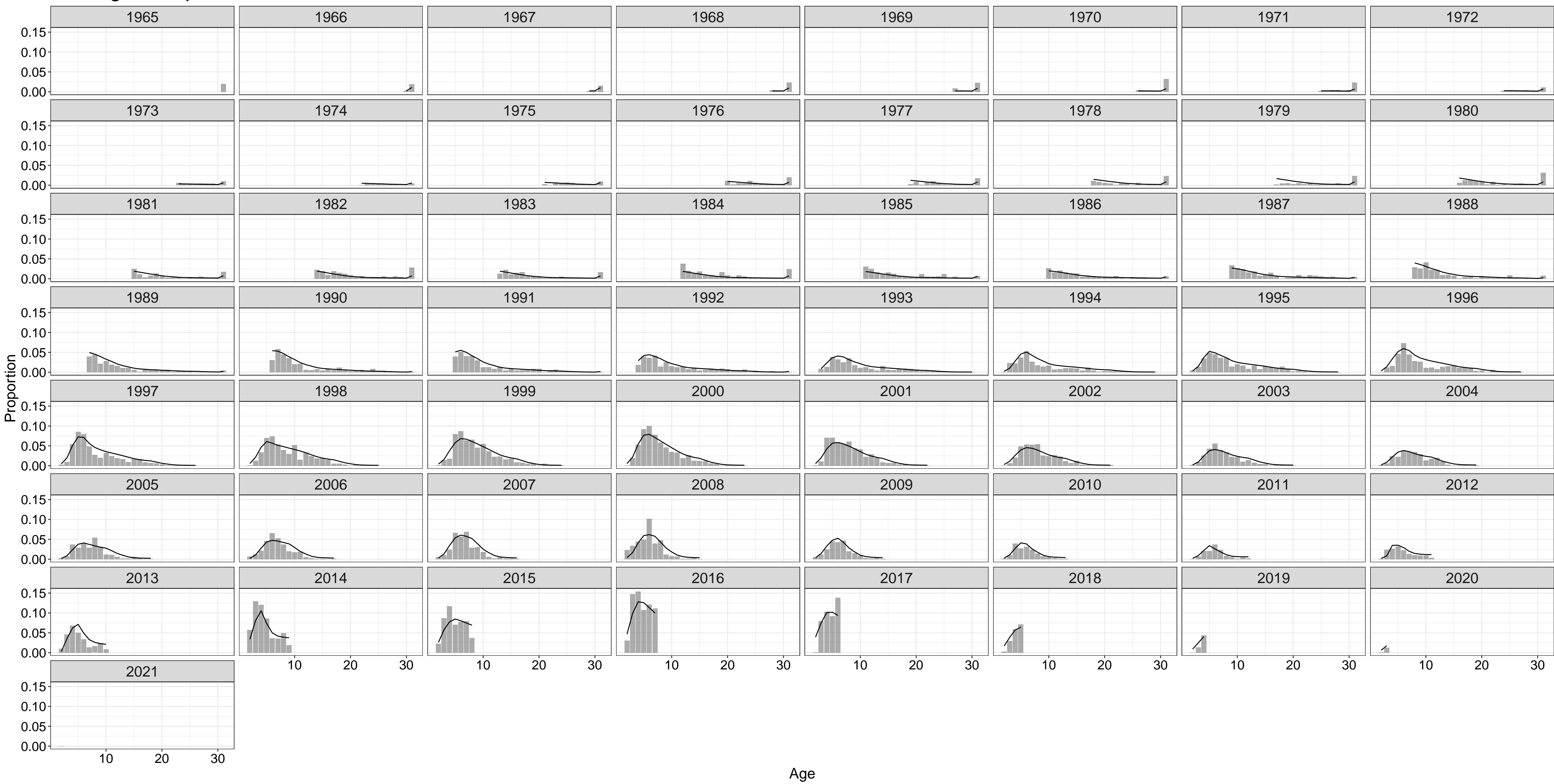
# LLS Age Comps Cohort Fit Female



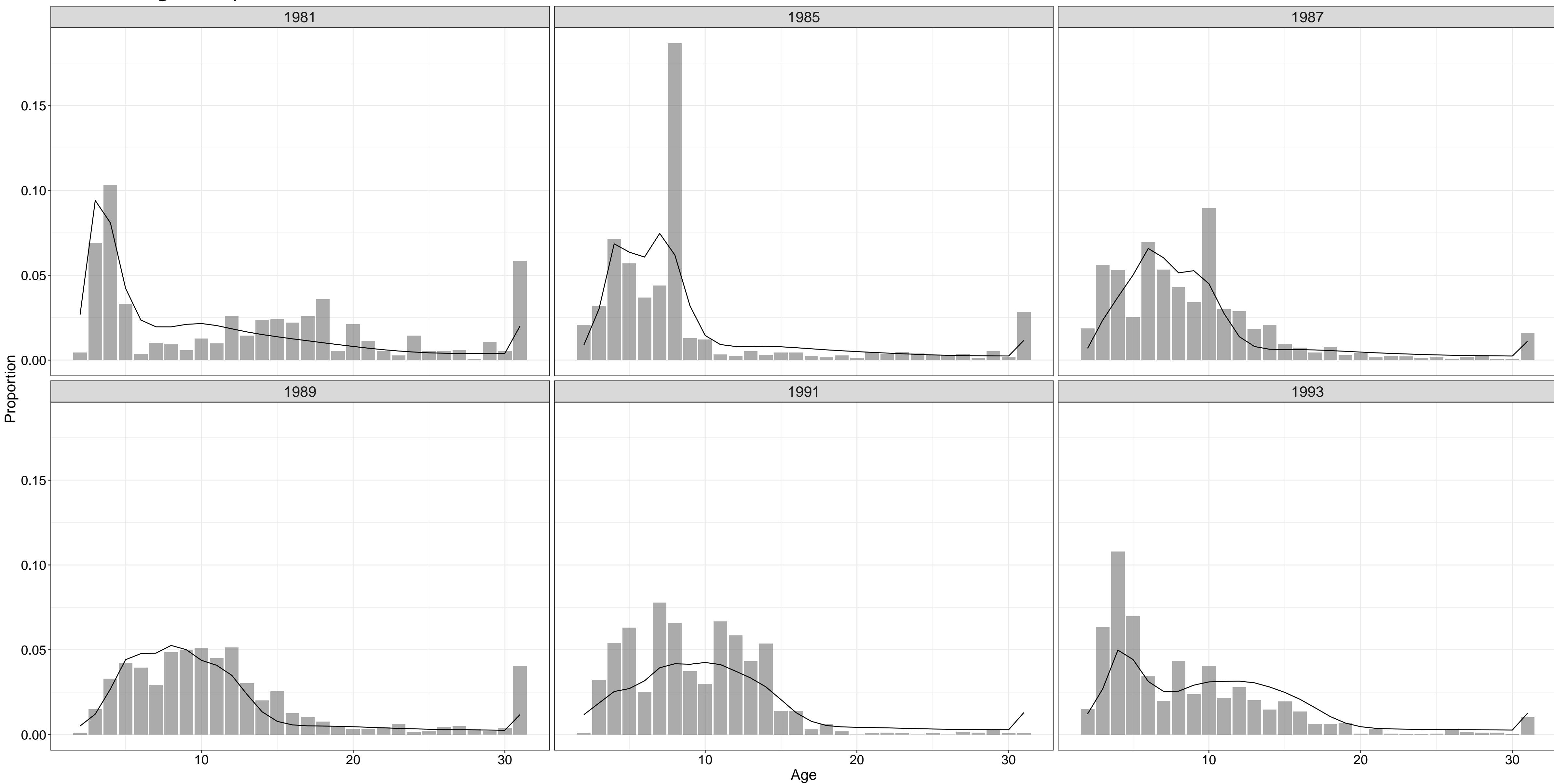
# LLS Age Comps Male



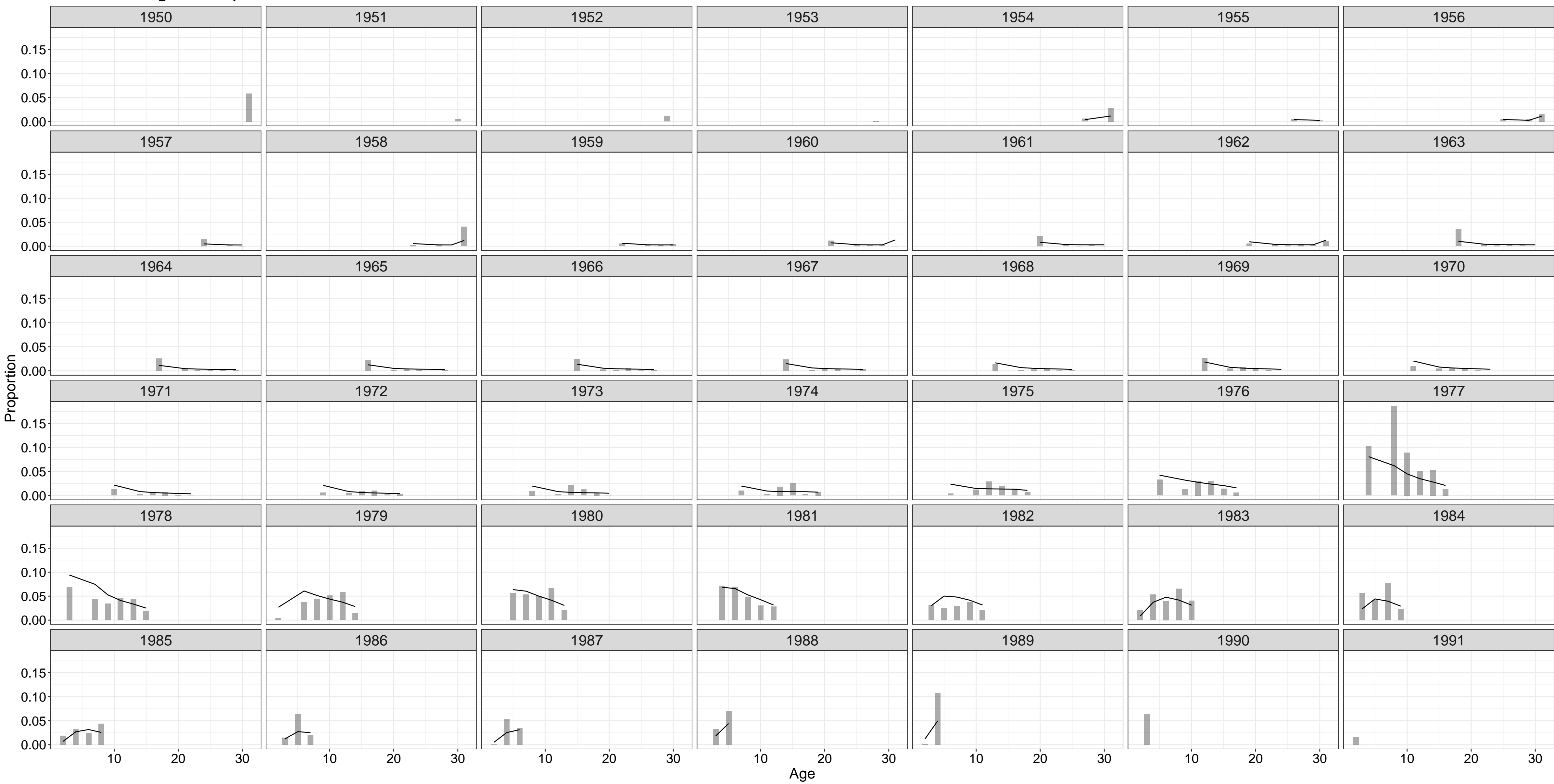
# LLS Age Comps Cohort Fit Male



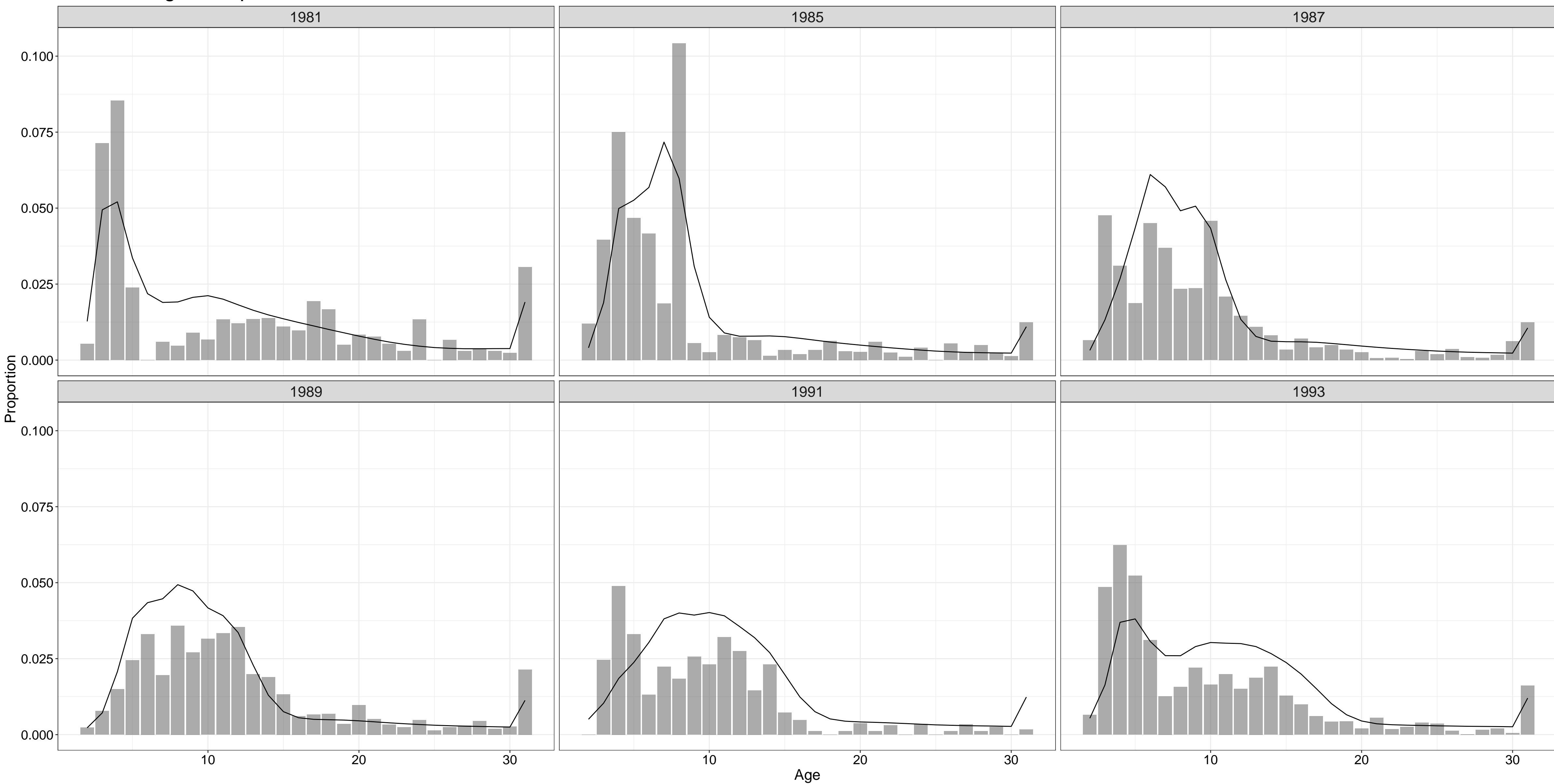
# JPN LLS Age Comps Female



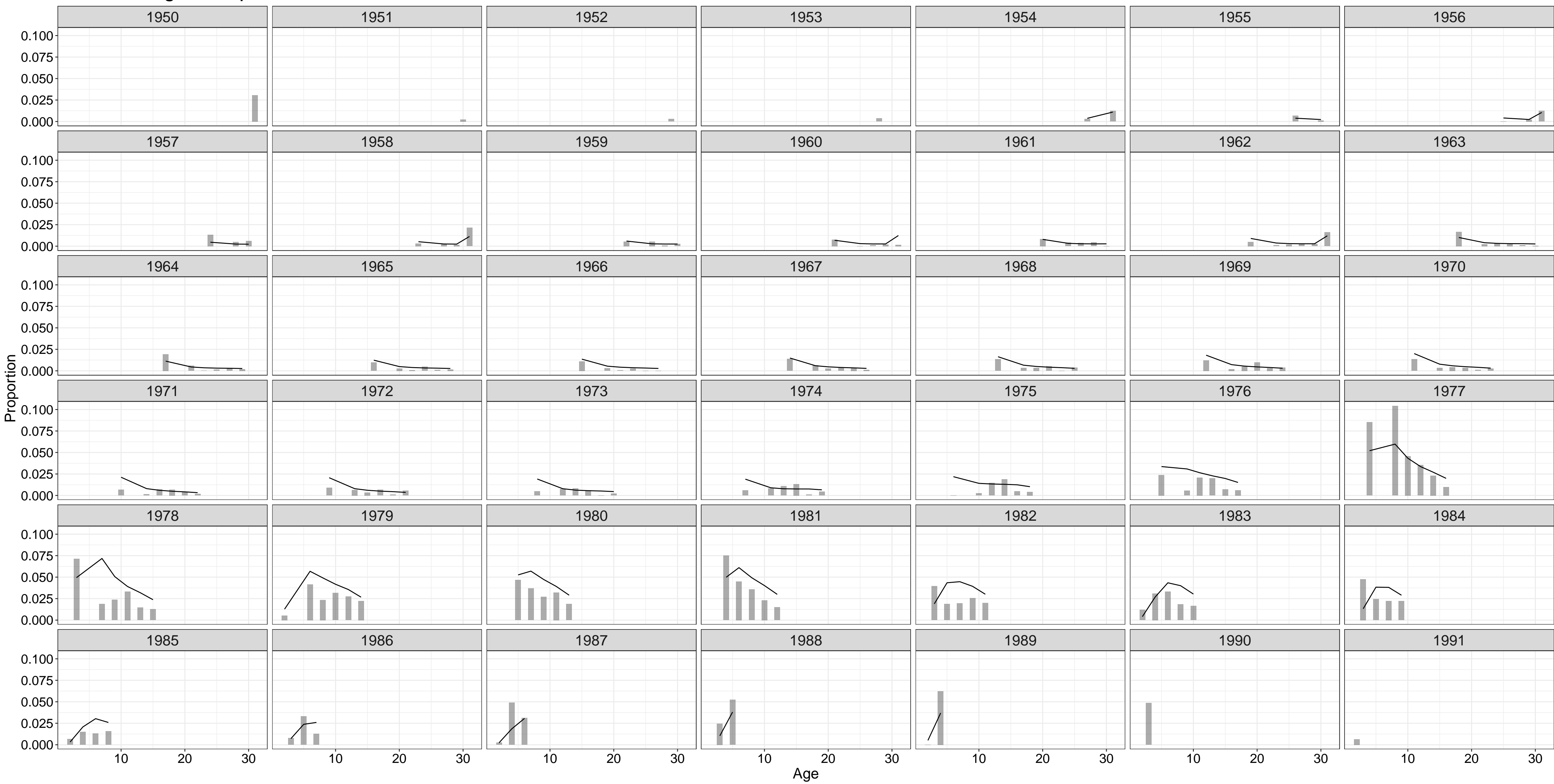
JPN LLS Age Comps Cohort Fit Female



# JPN LLS Age Comps Male

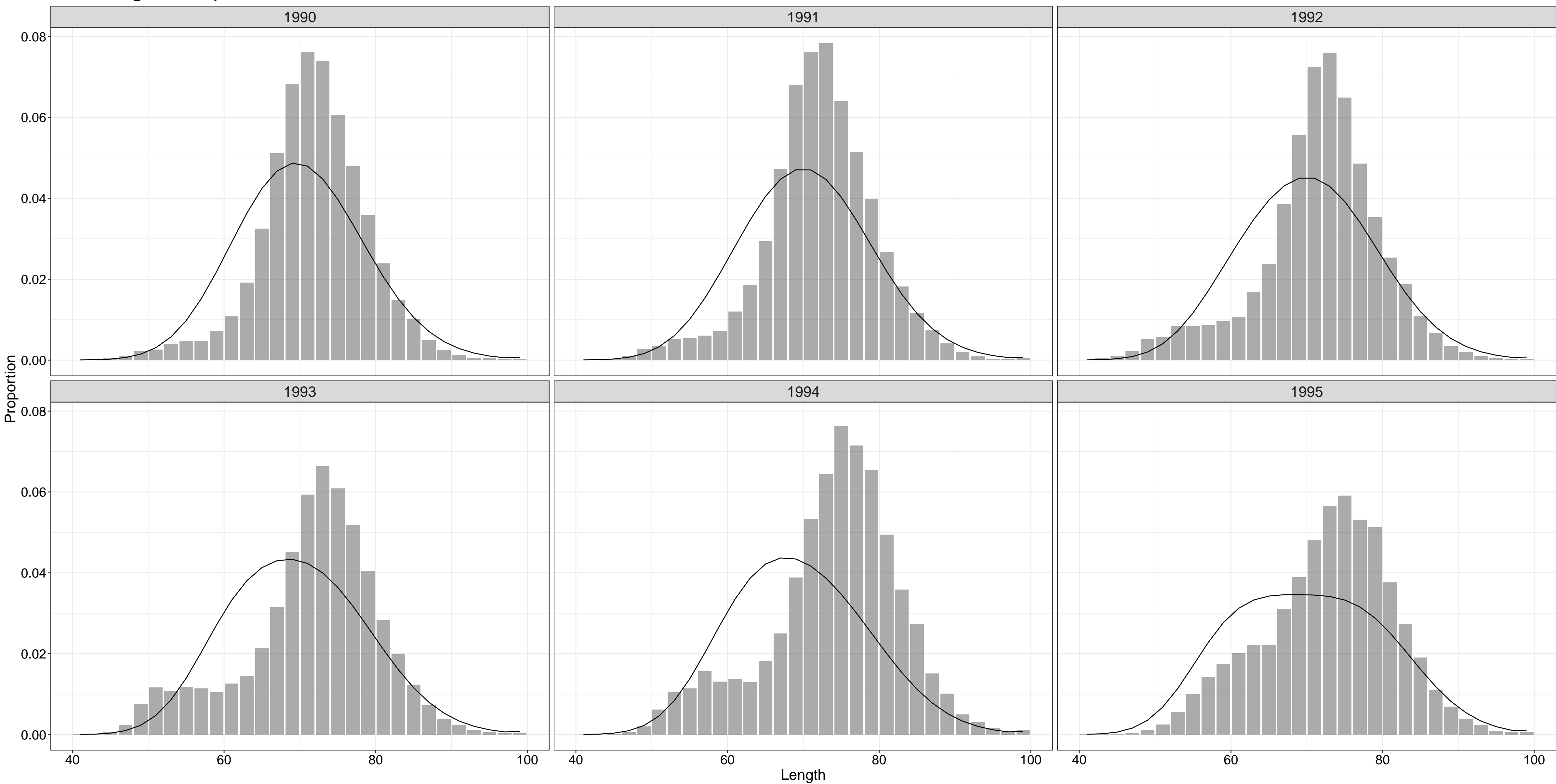


# JPN LLS Age Comps Cohort Fit Male

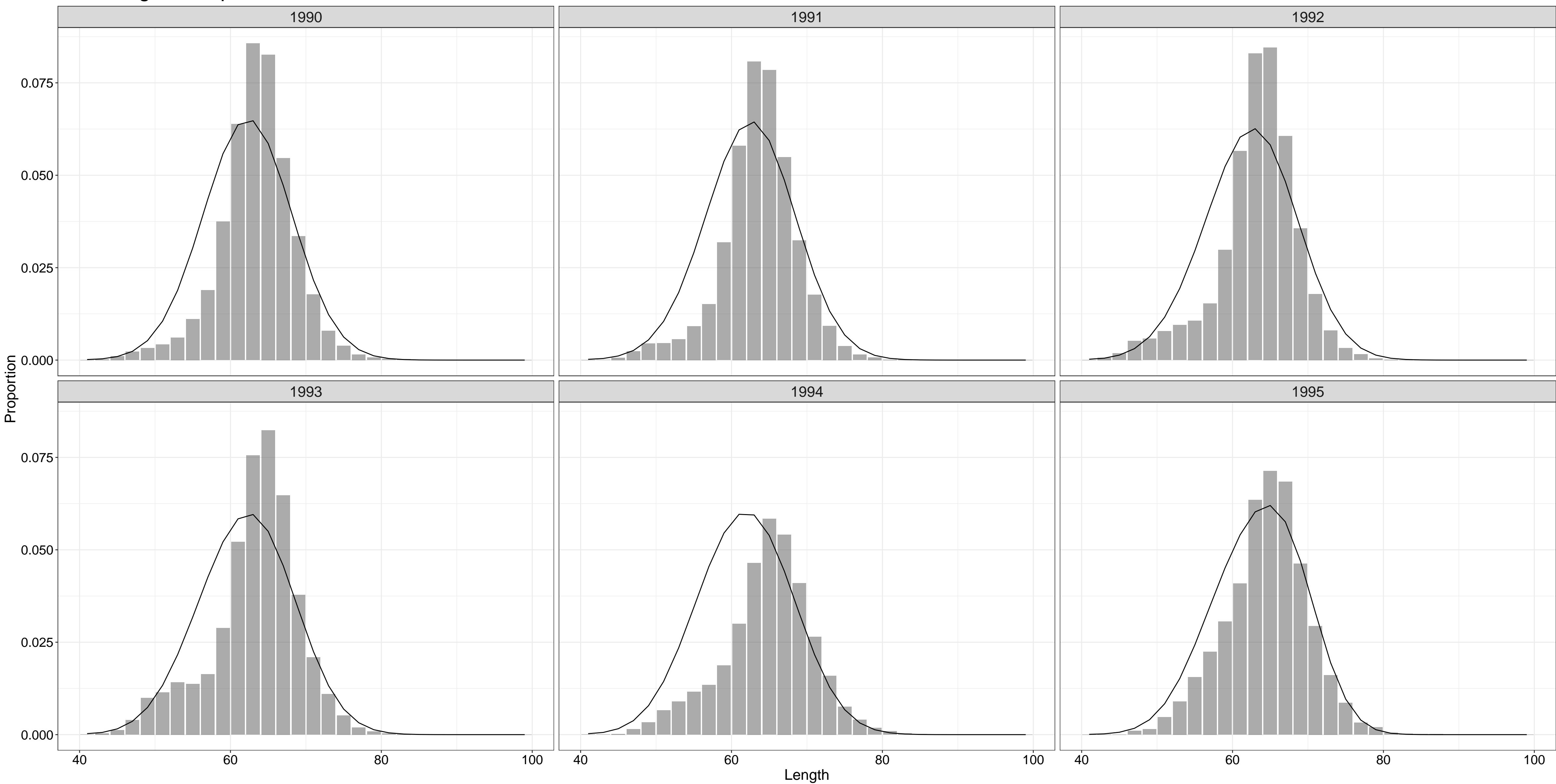




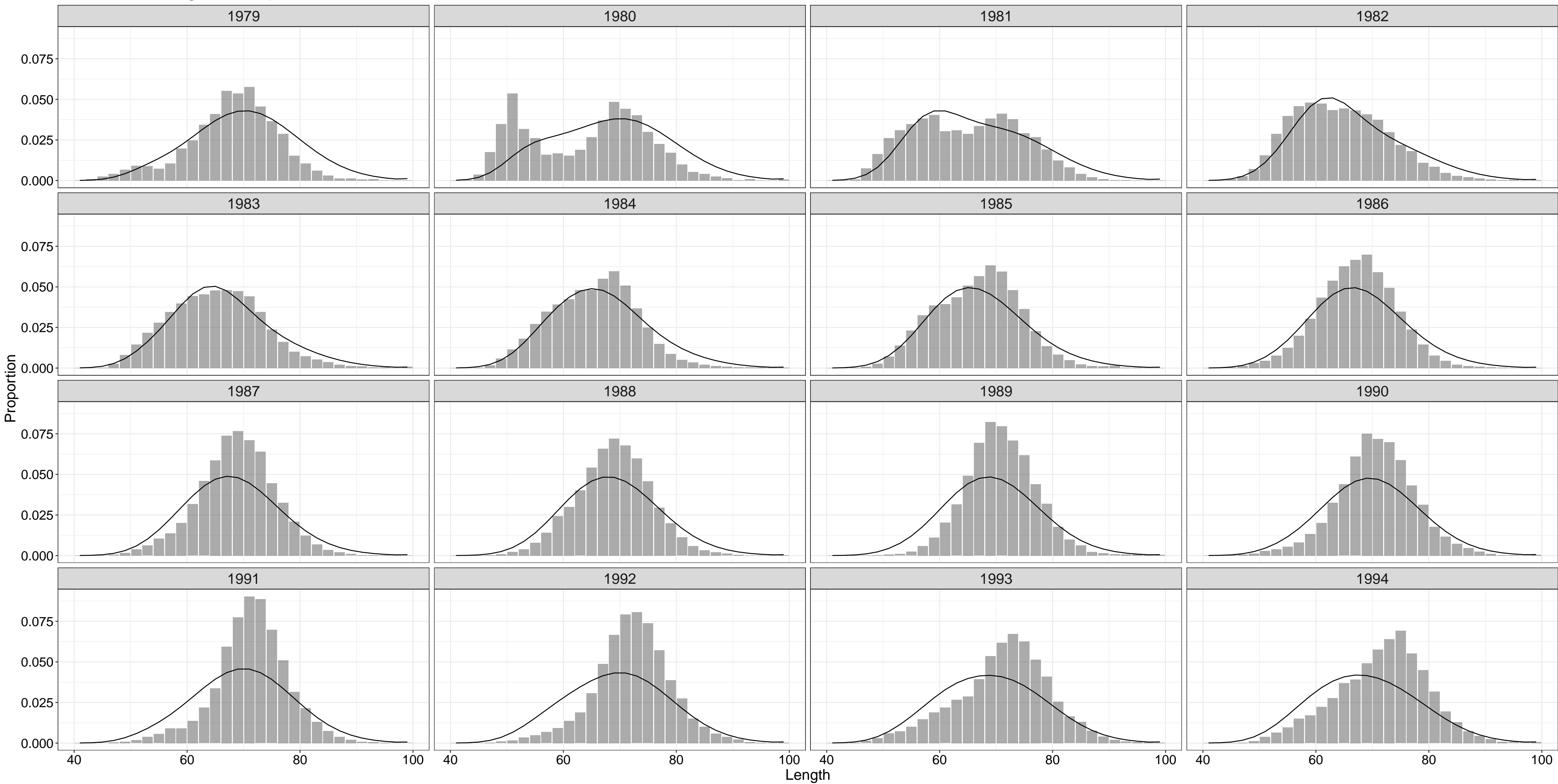
# LLS Length Comps Female



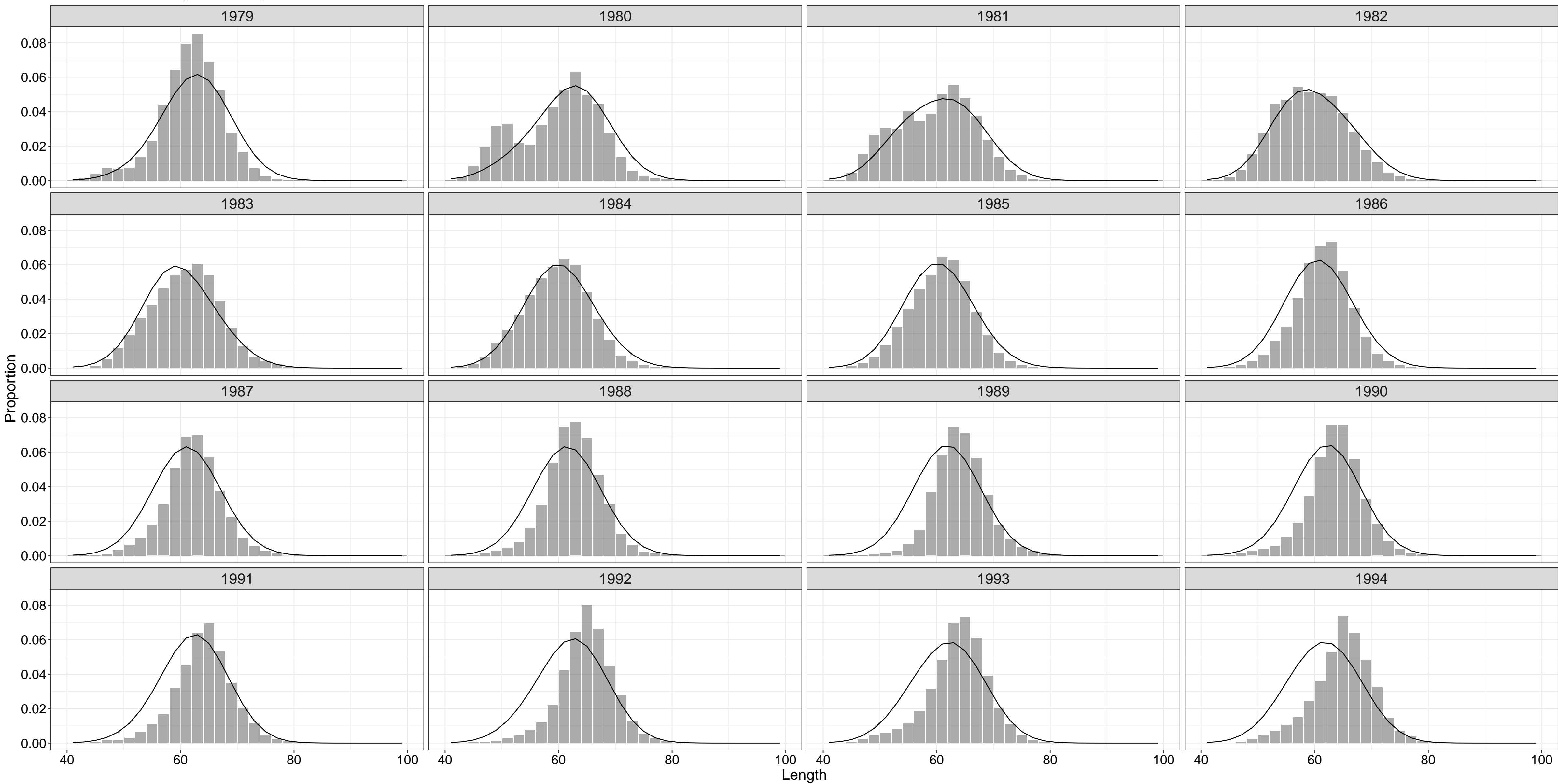
# LLS Length Comps Male

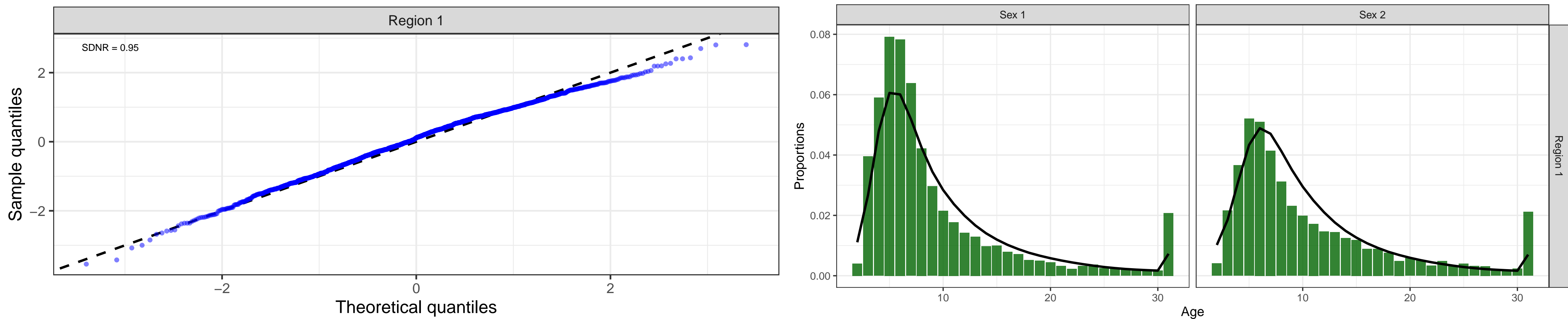
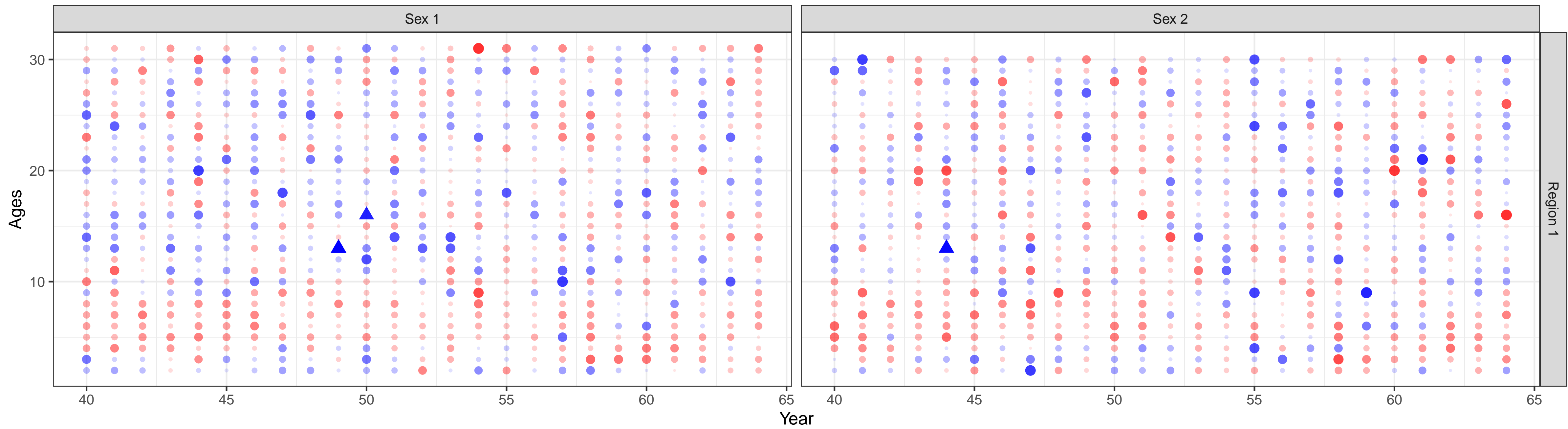


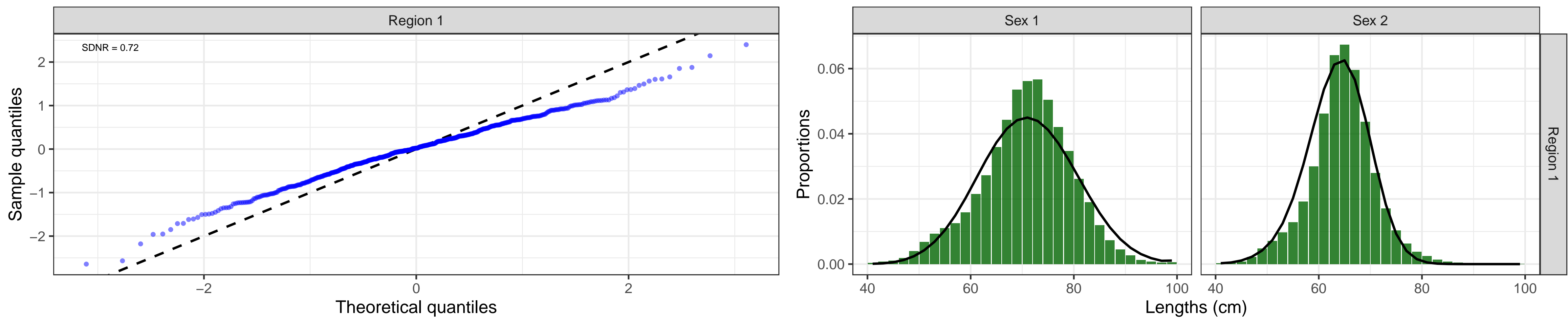
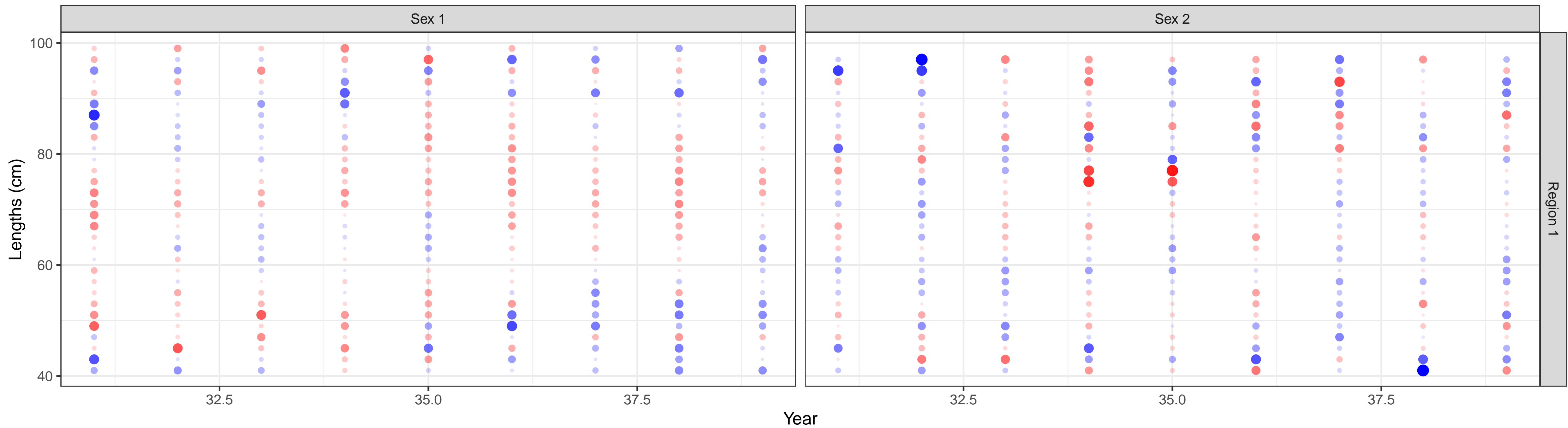
# JPN LLS Length Comps Female

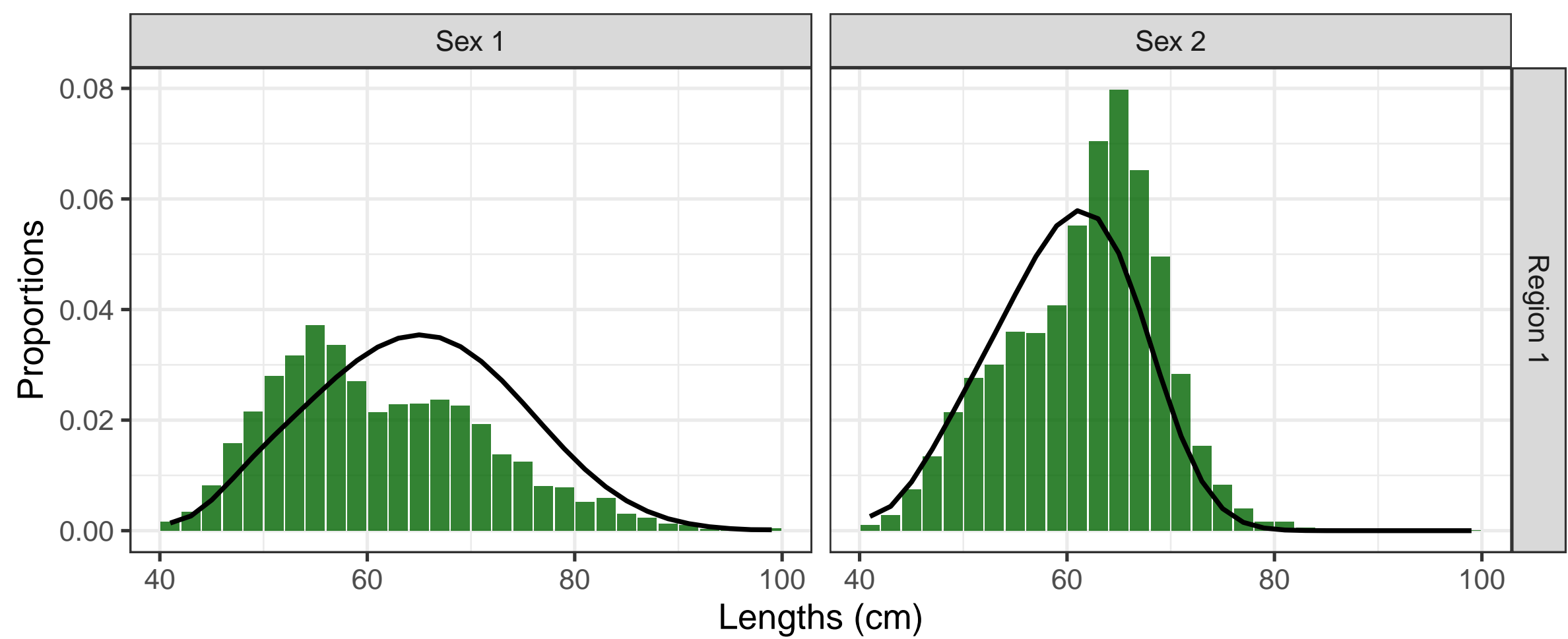
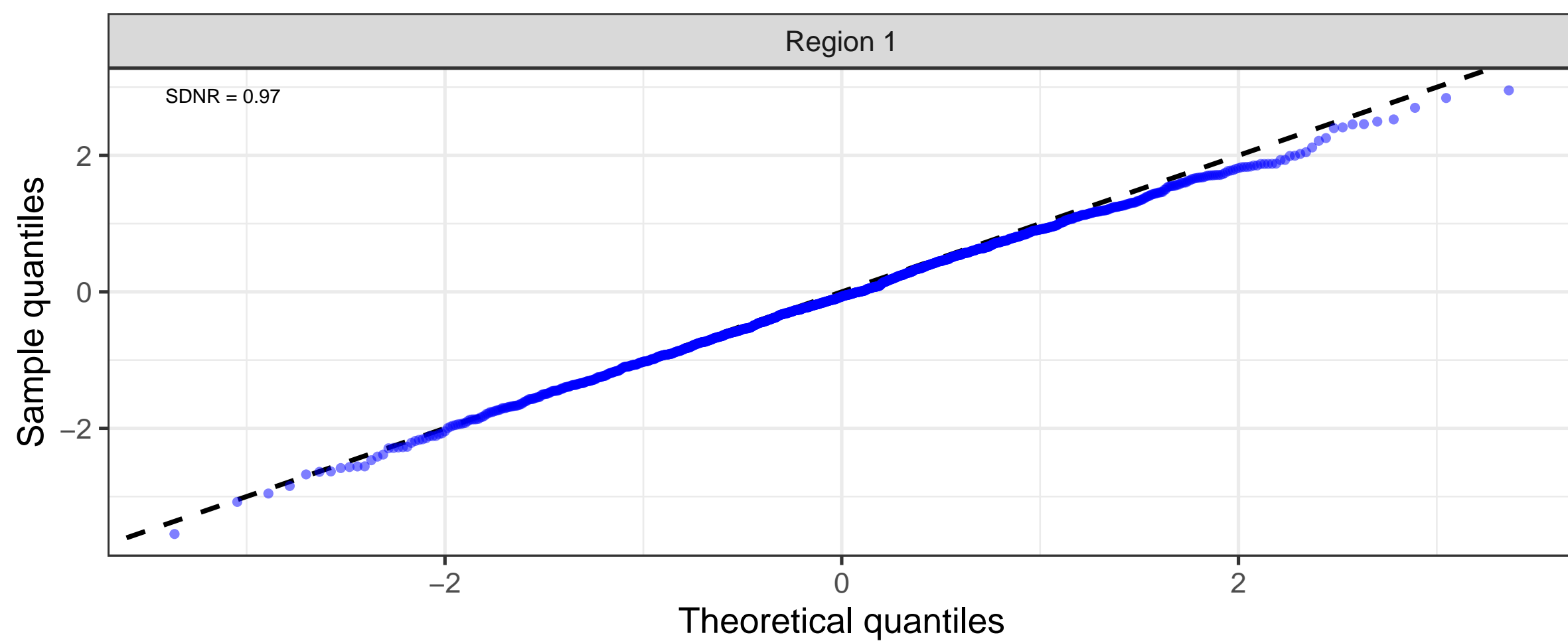
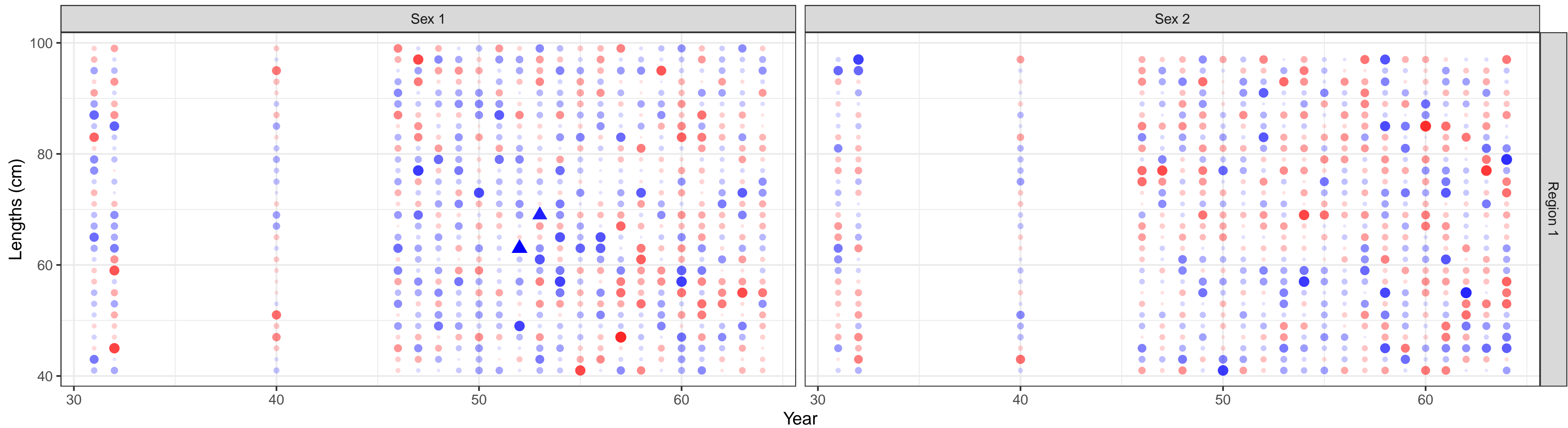


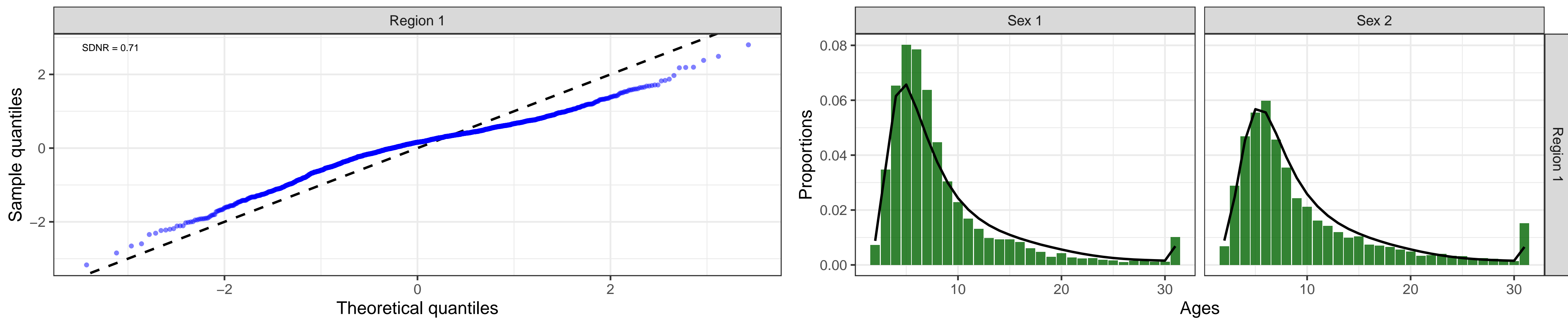
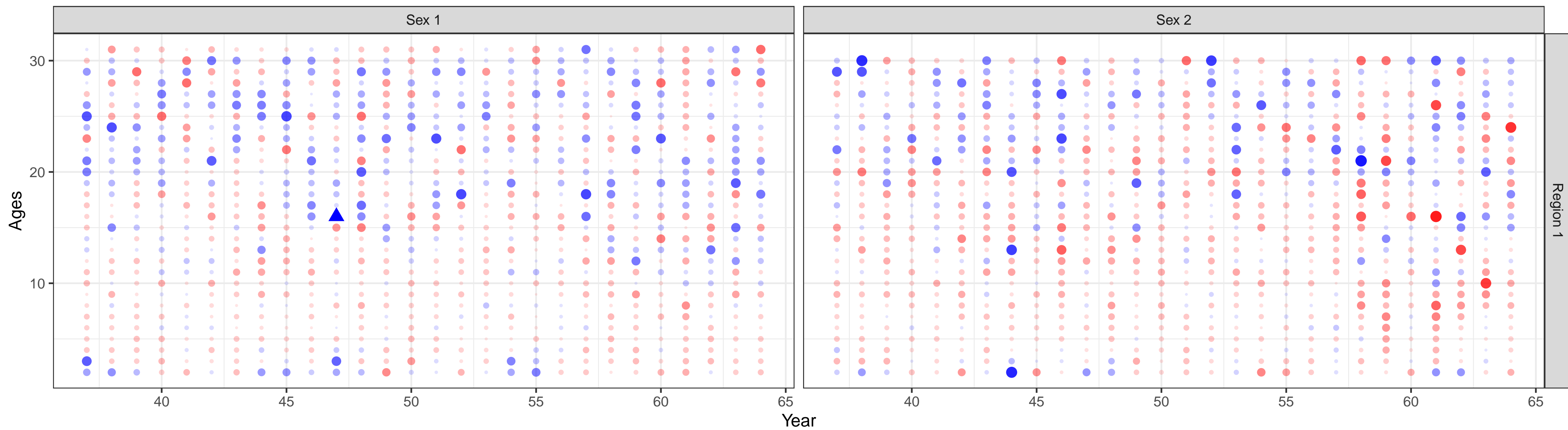
# JPN LLS Length Comps Male



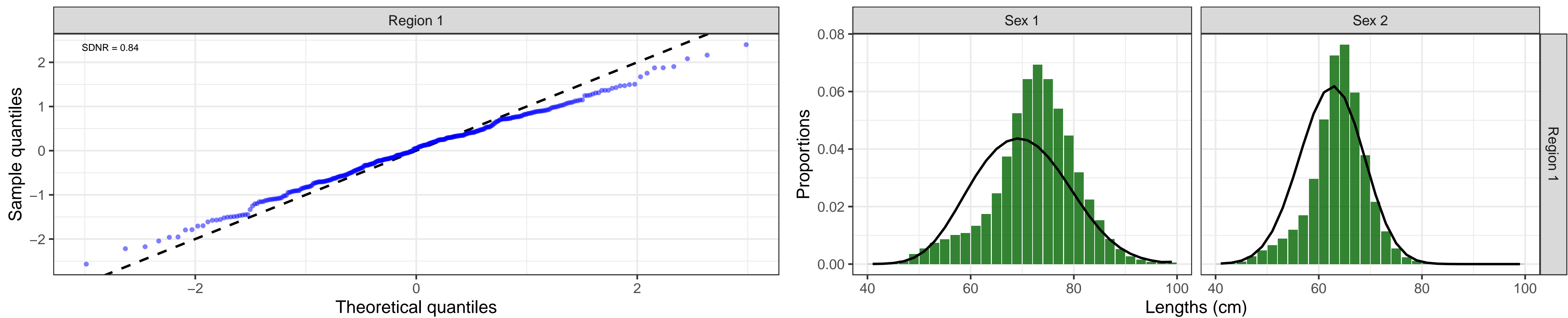
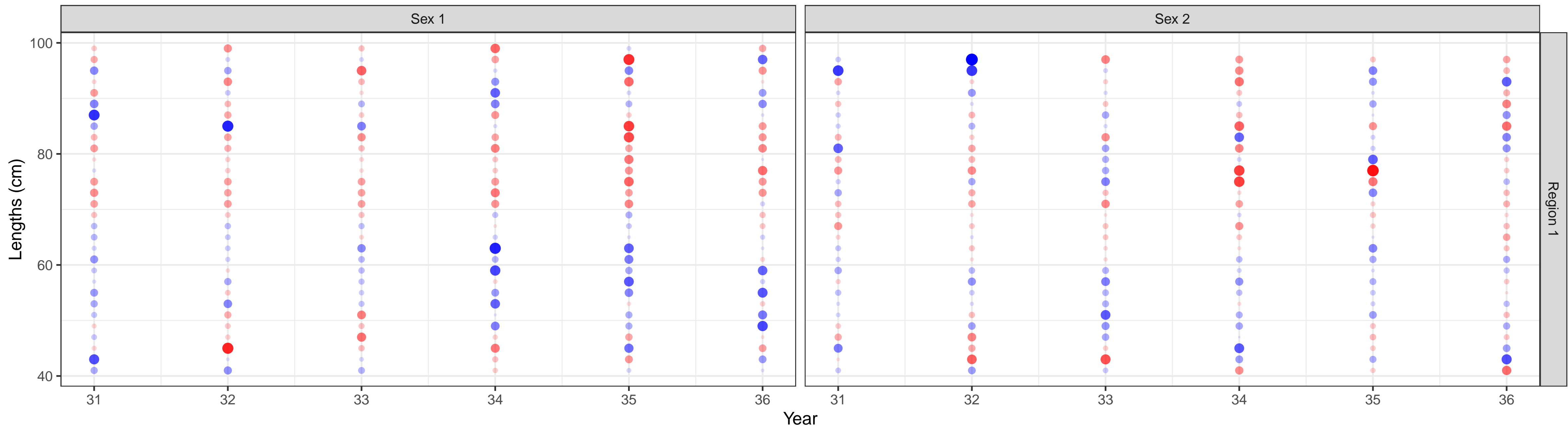












abs(Resid)   ● 1   ● 2   ● 3   Sign   ● Neg   ● Pos   Outlier   ● No   ▲ Yes

