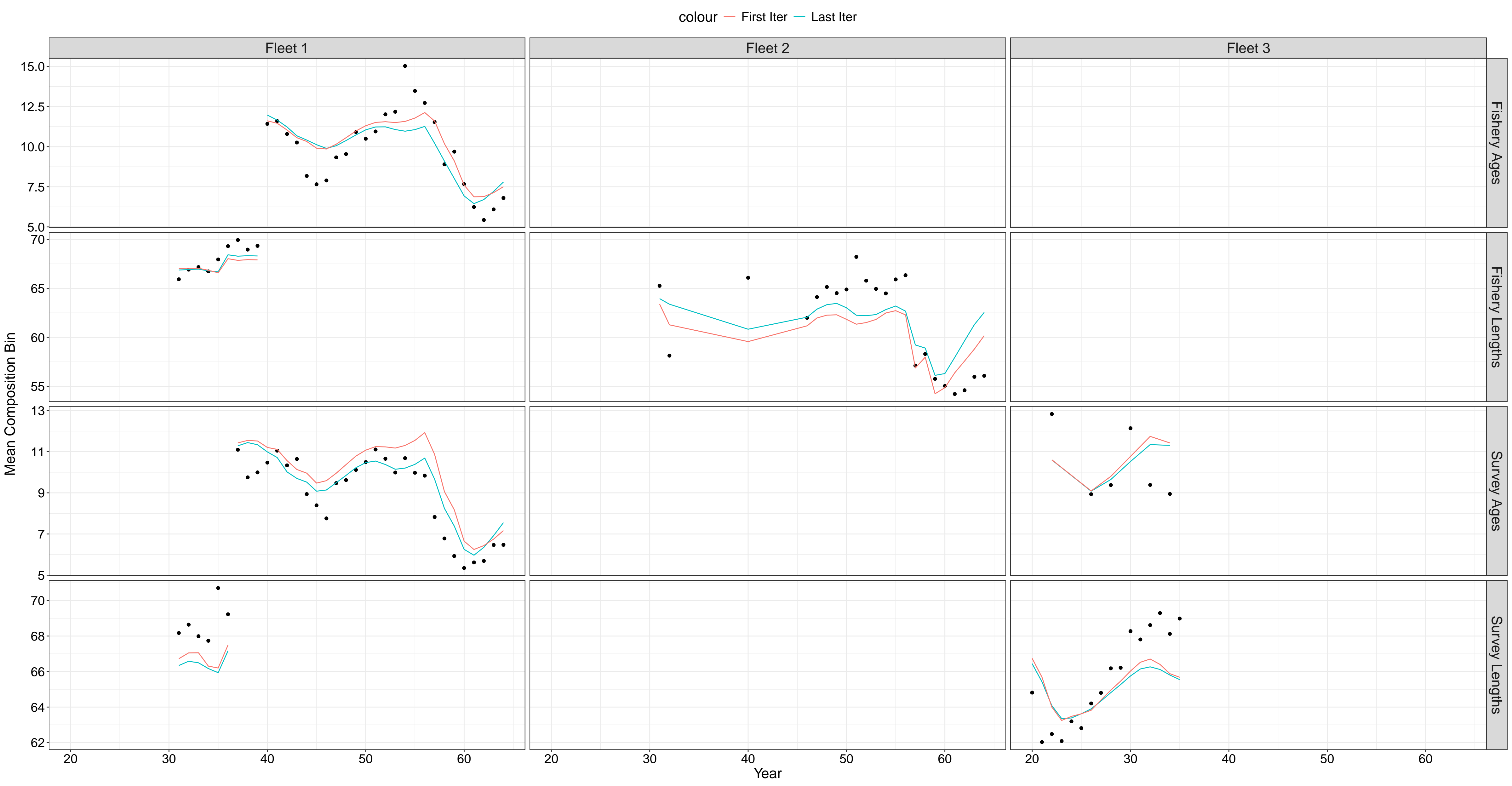
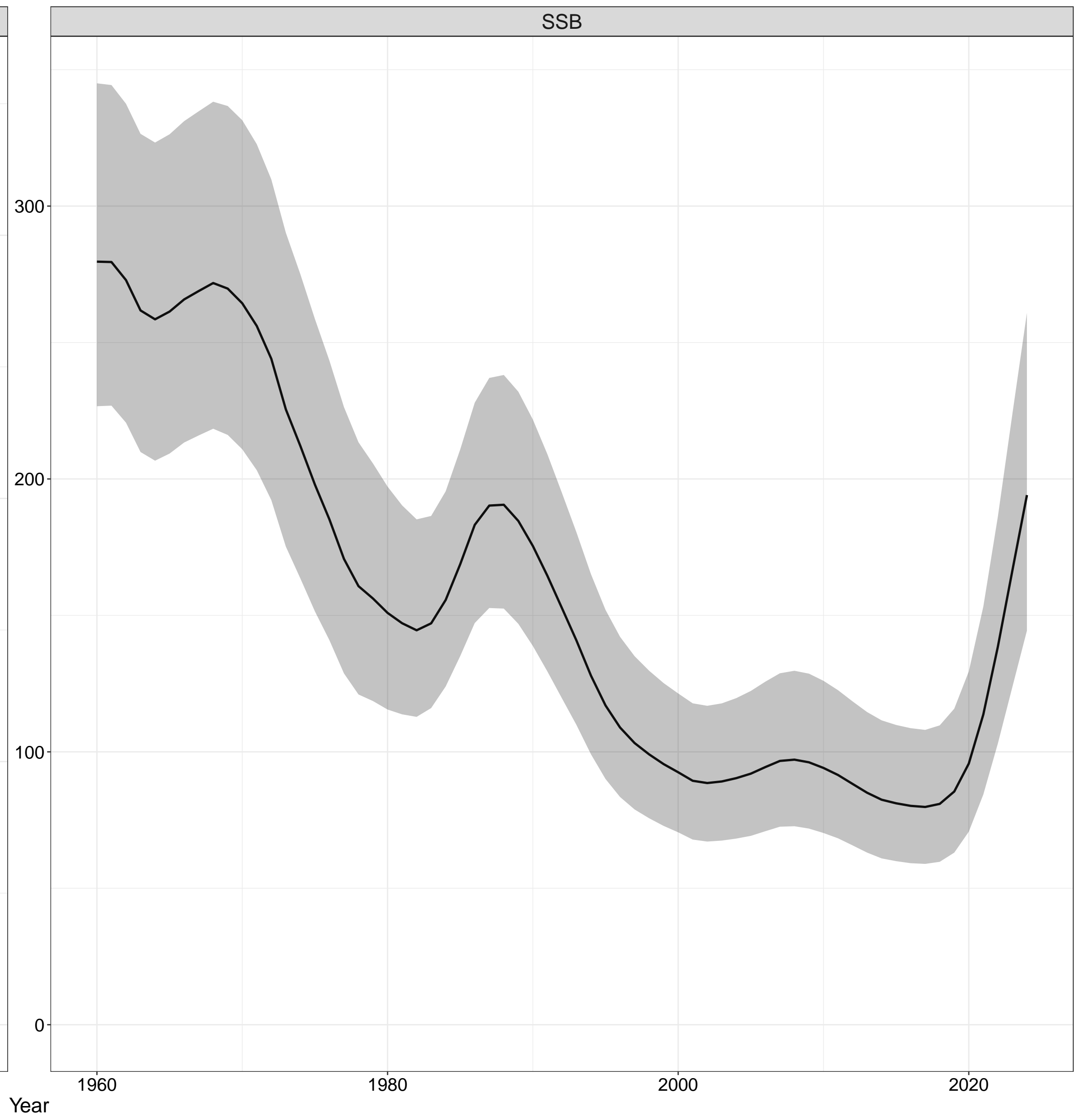
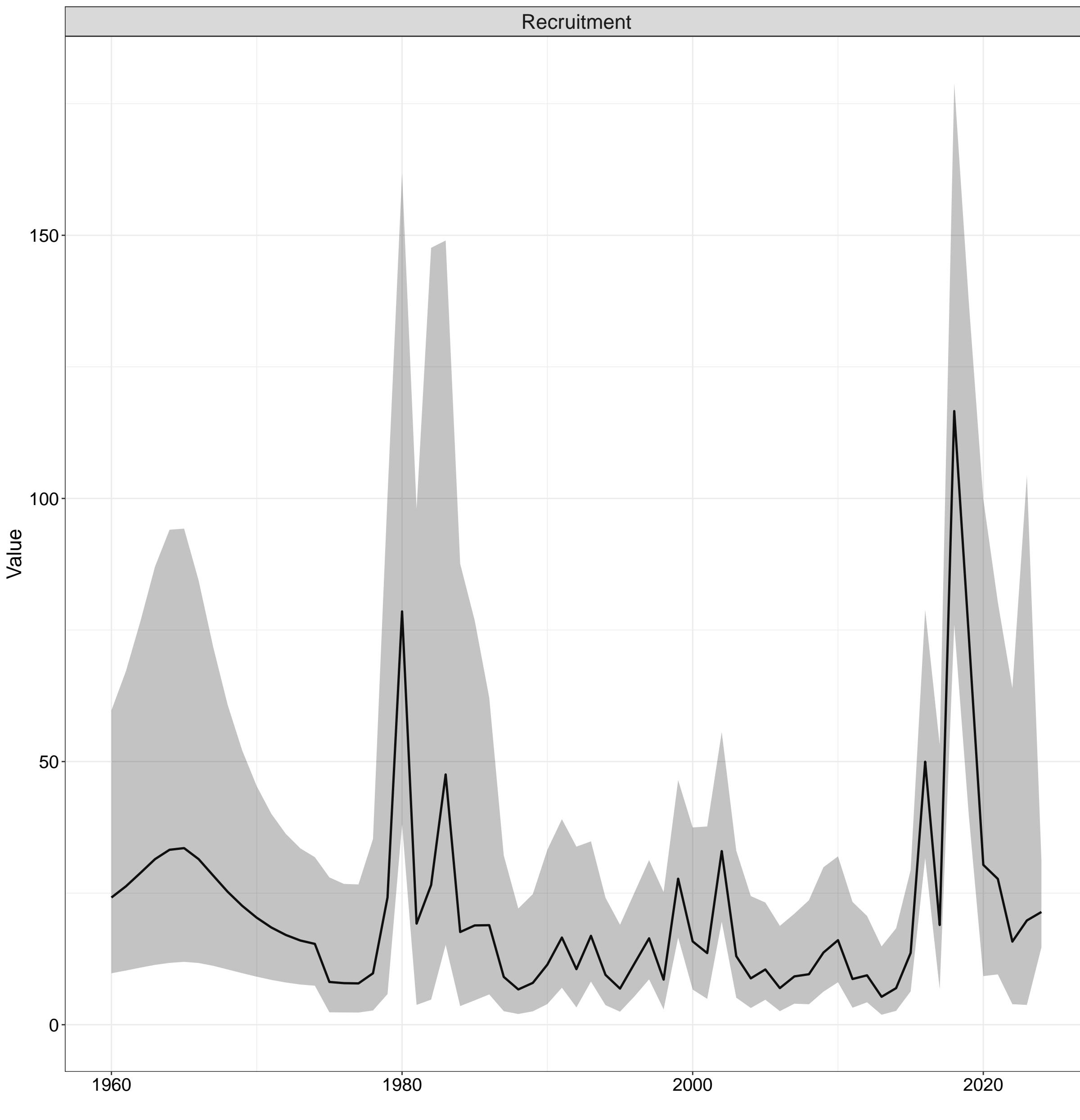


	Comp_Type	Init_Weight	Final_Weight
1	LLF_Age_F	0.8261073	0.8120319
2	LLF_Age_M	NA	NA
3	LLS_Age_F	3.7922454	3.4281336
4	LLS_Age_M	NA	NA
5	JPN_LLS_Age_F	1.3168111	0.6409265
6	JPN_LLS_Age_M	NA	NA
7	LLF_Len_F	4.1837057	6.0265426
8	LLF_Len_M	4.2696935	NA
9	TF_Len_F	0.3164859	0.2651007
10	TF_Len_M	0.2293966	NA
11	LLS_Len_F	1.4379202	2.5287035
12	LLS_Len_M	1.0705376	NA
13	JPN_LLS_Len_F	1.2777281	1.0117184
14	JPN_LLS_Len_M	0.8575195	NA



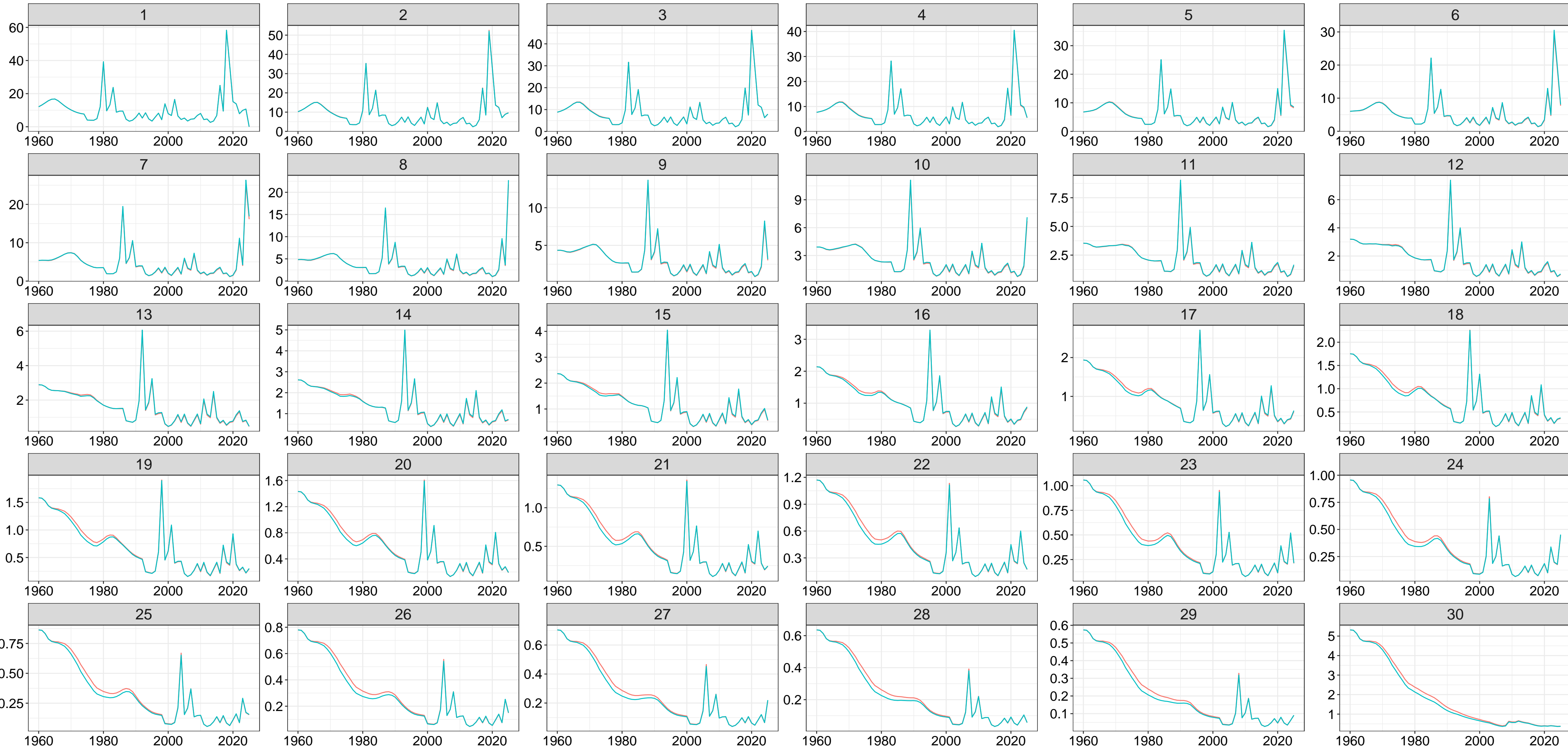
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	1	1	194.09067	0.0484248550271446	39.55329	126.60578	0.08308	1.53303	0.58289



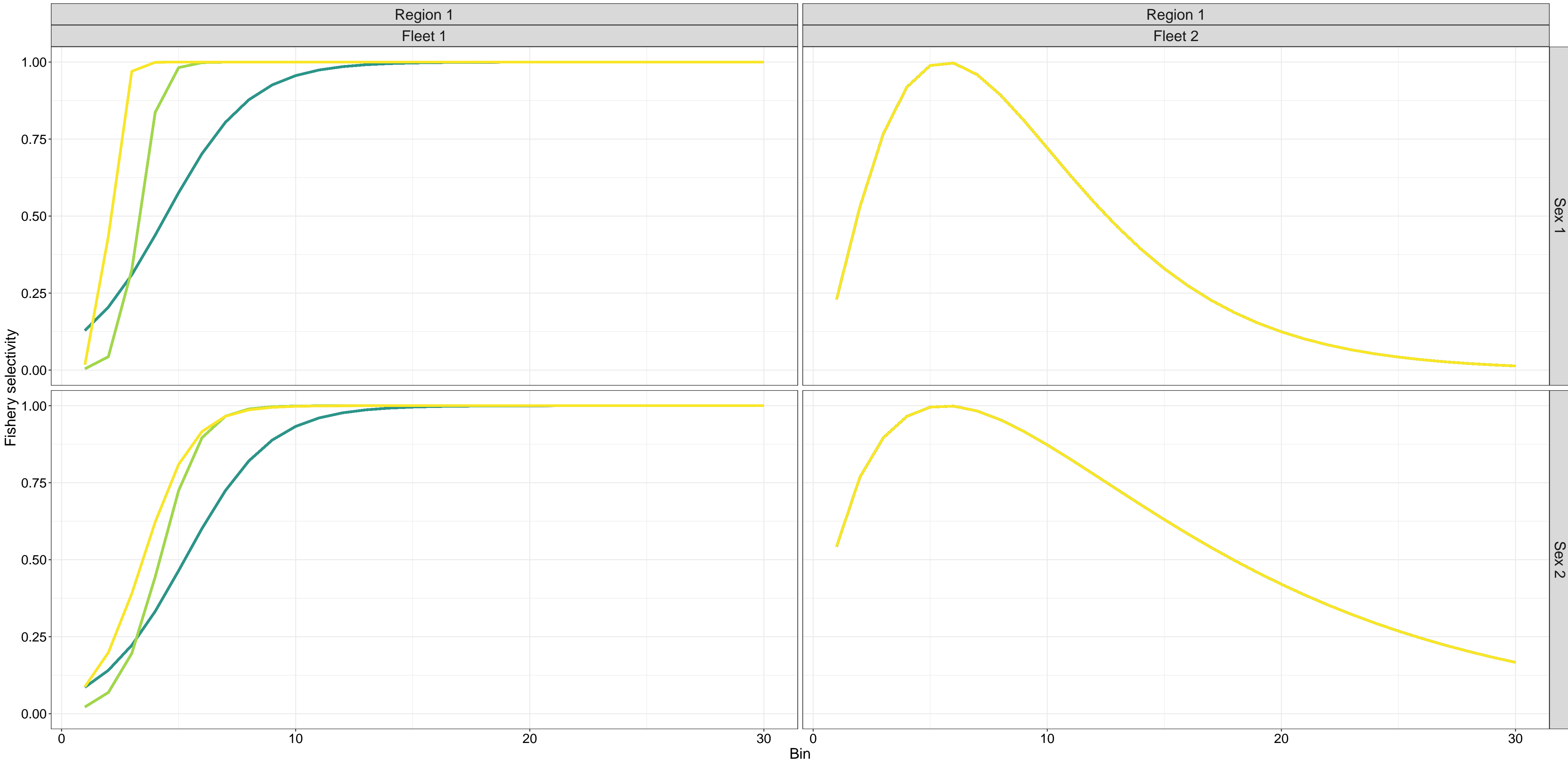
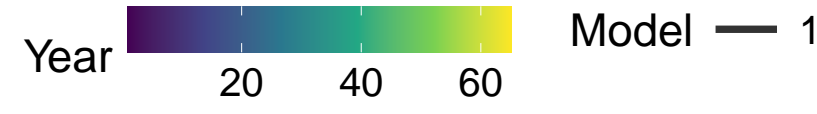
# Numbers-at-Age

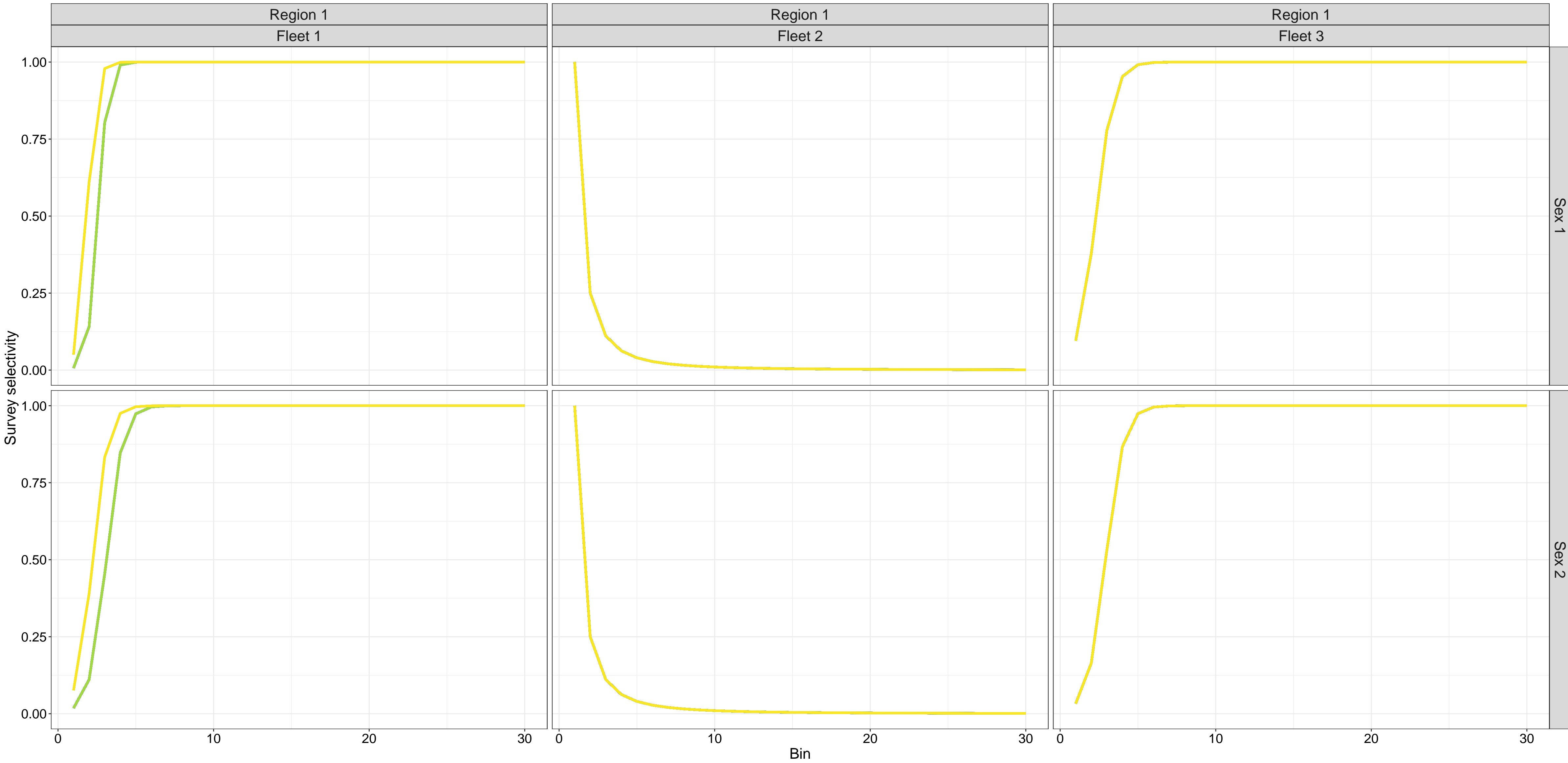
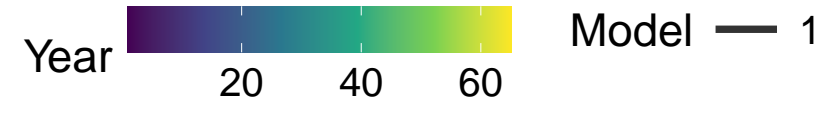
Sex — Female — Male

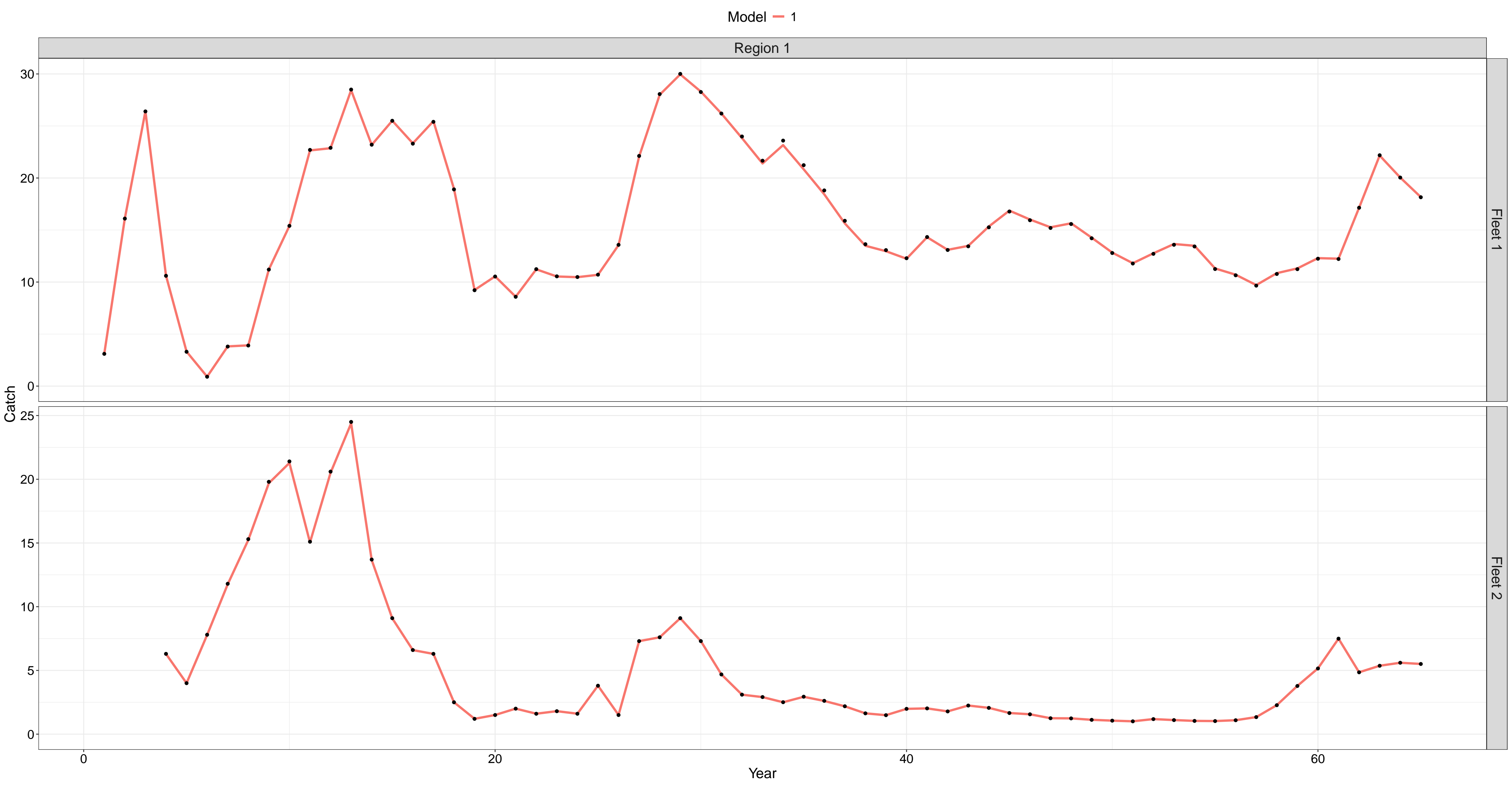
Numbers-at-age (millions)



Year

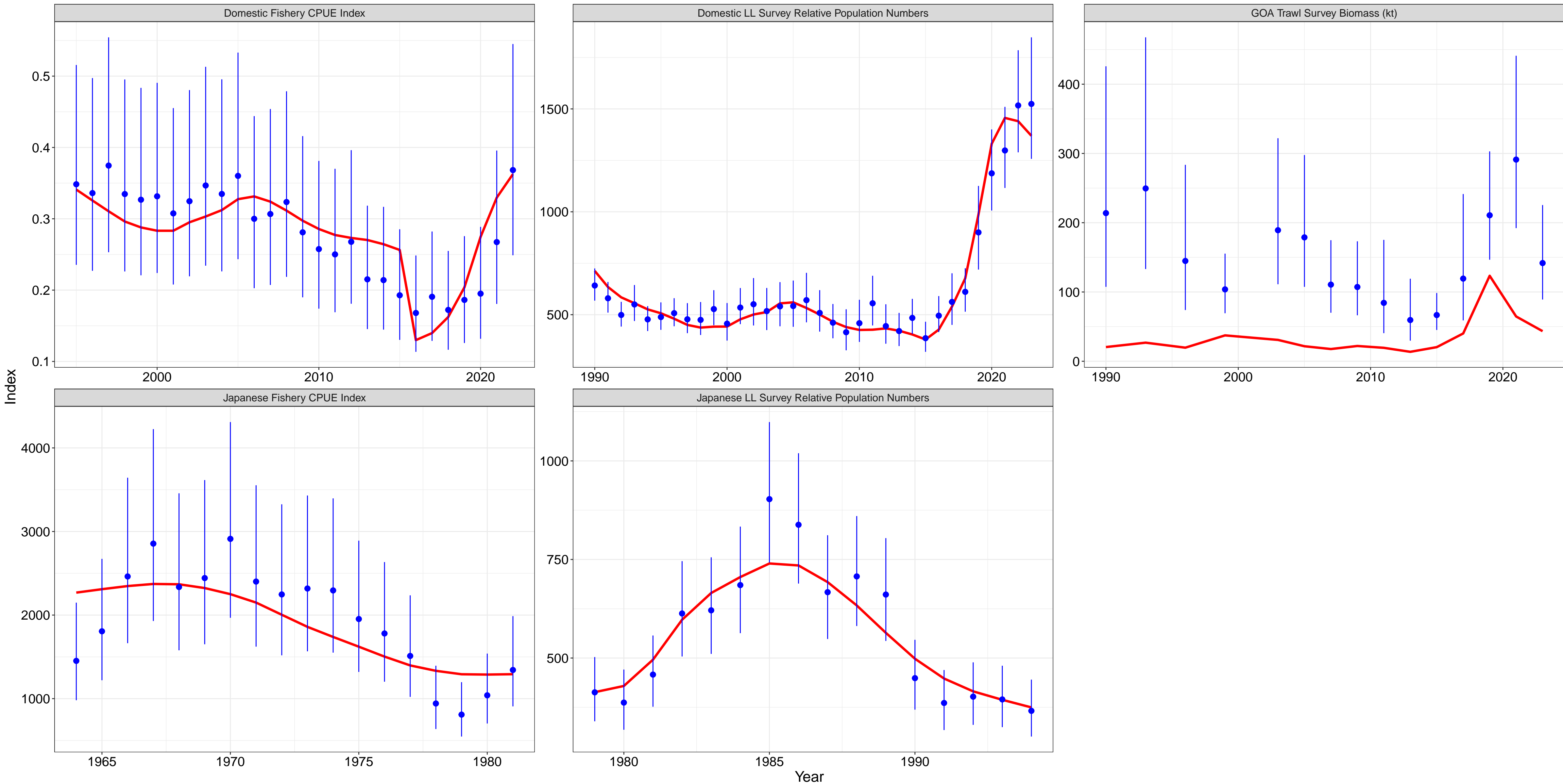




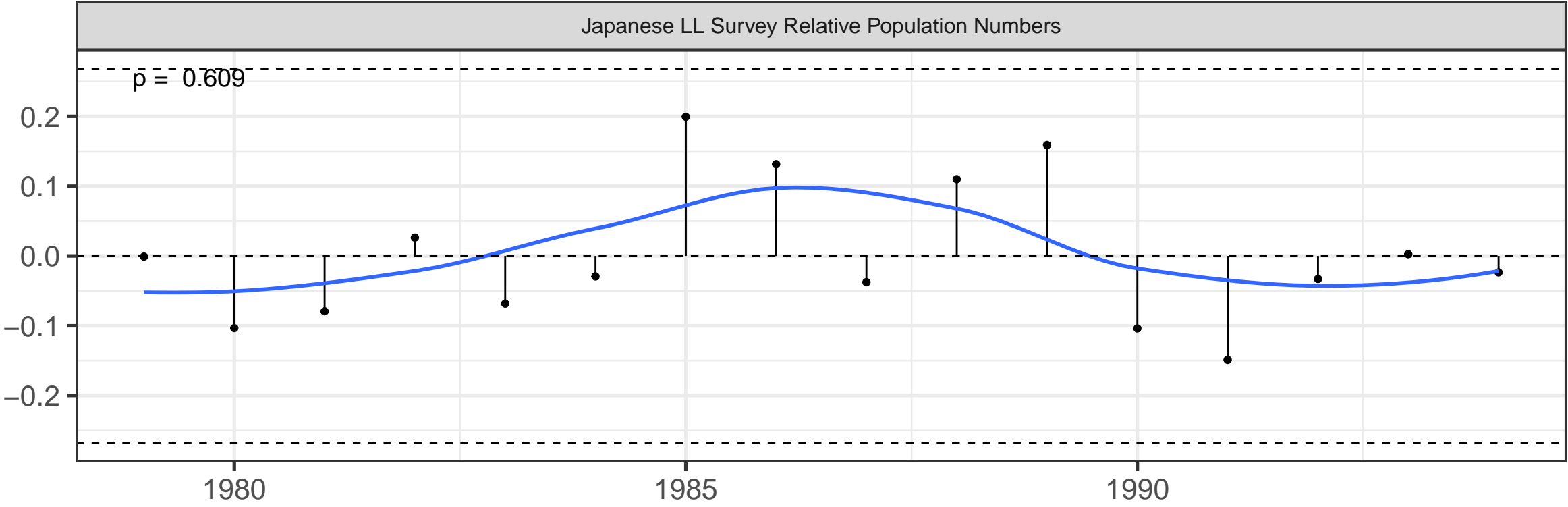
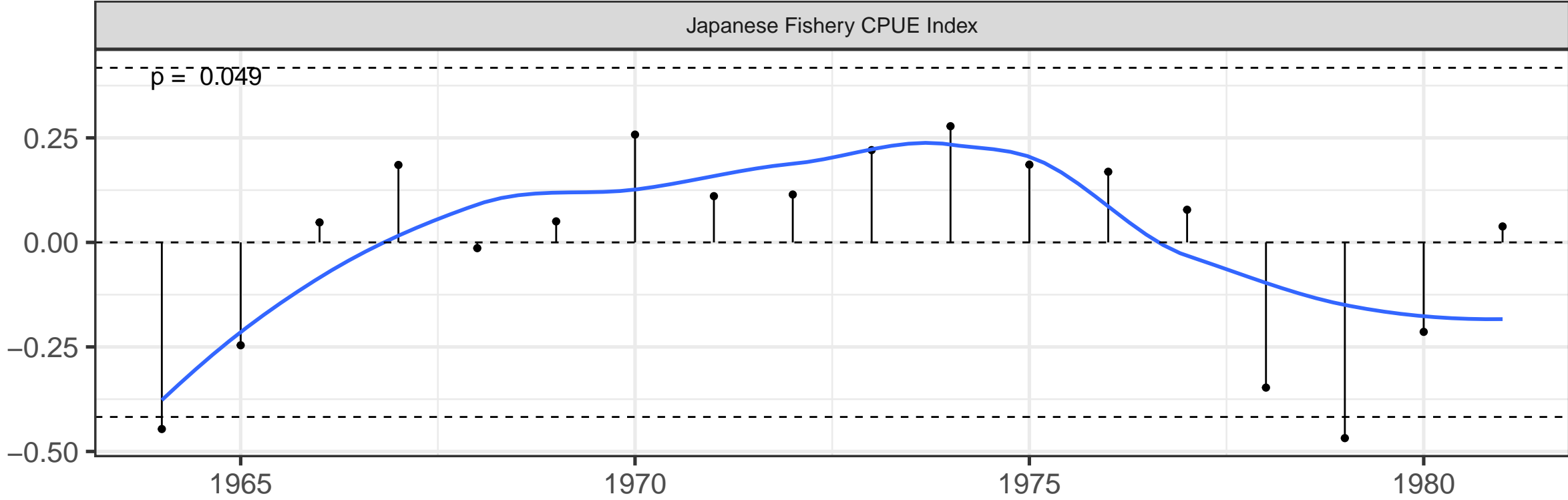
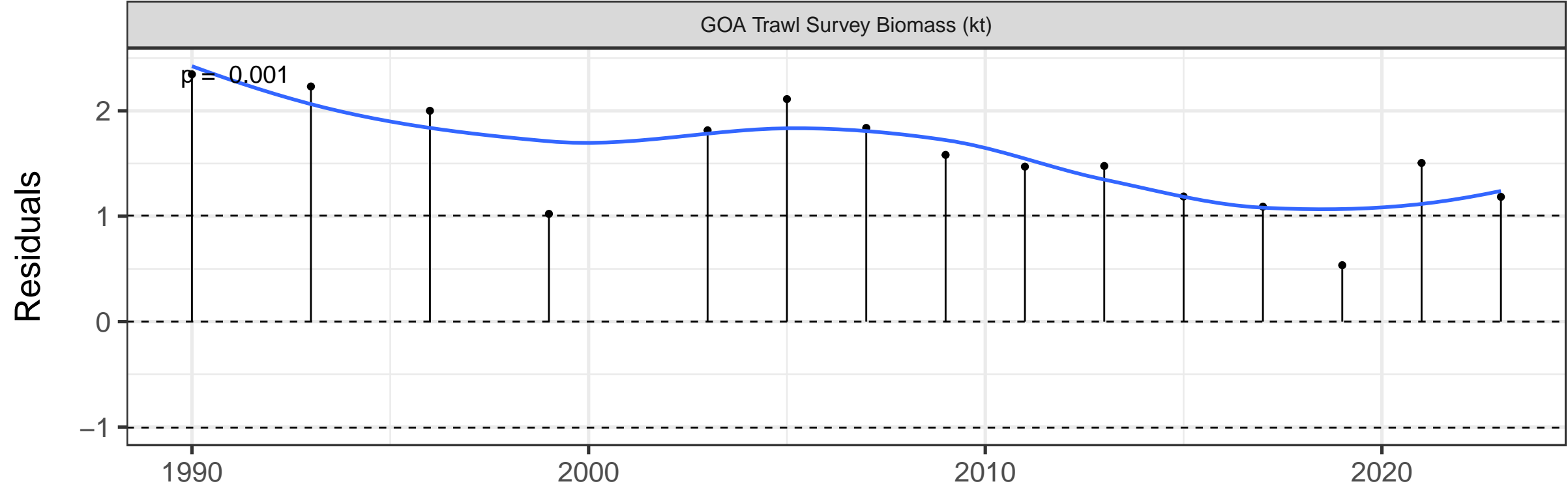
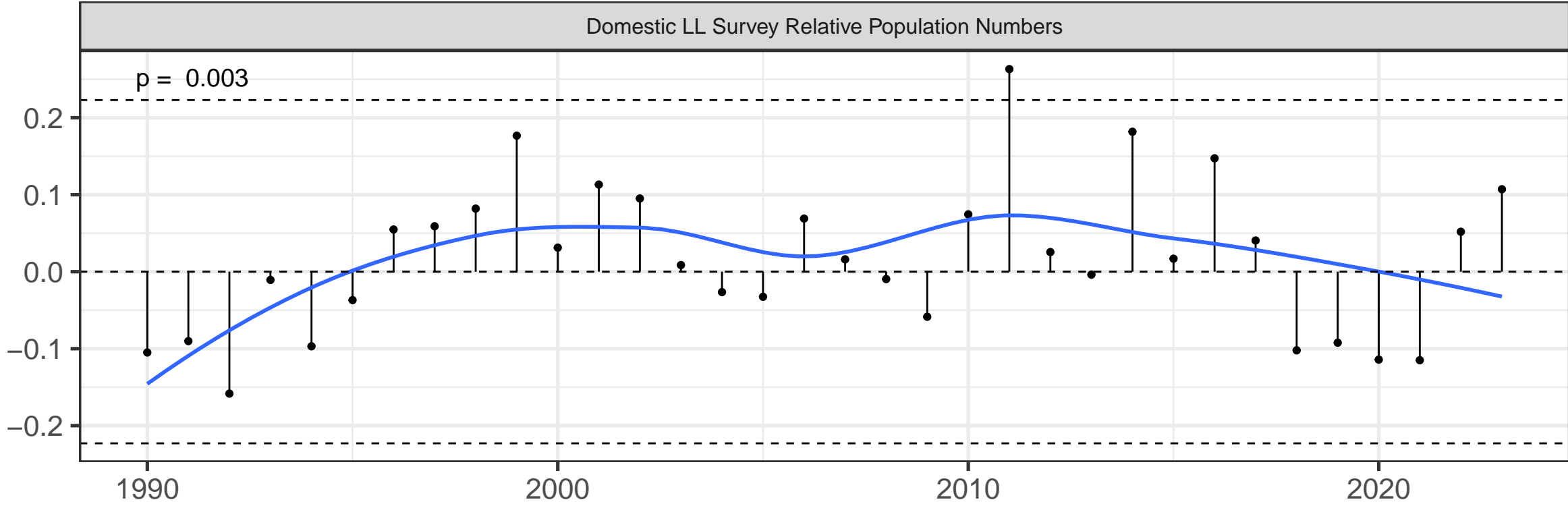
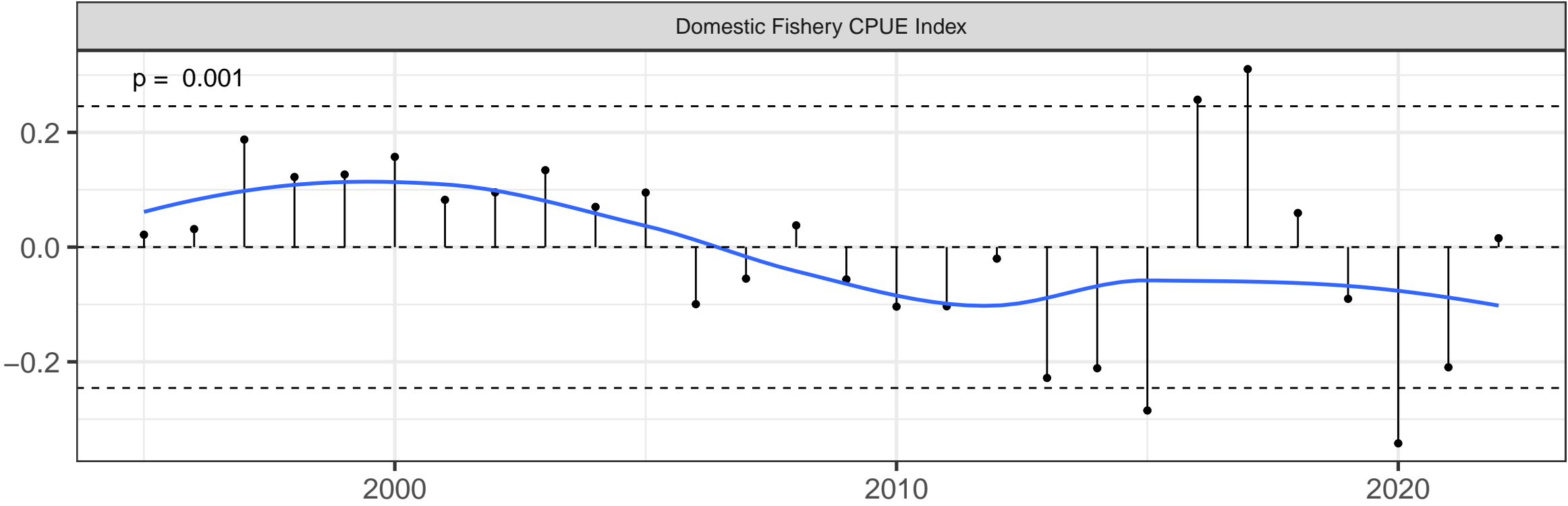




# Index Fits

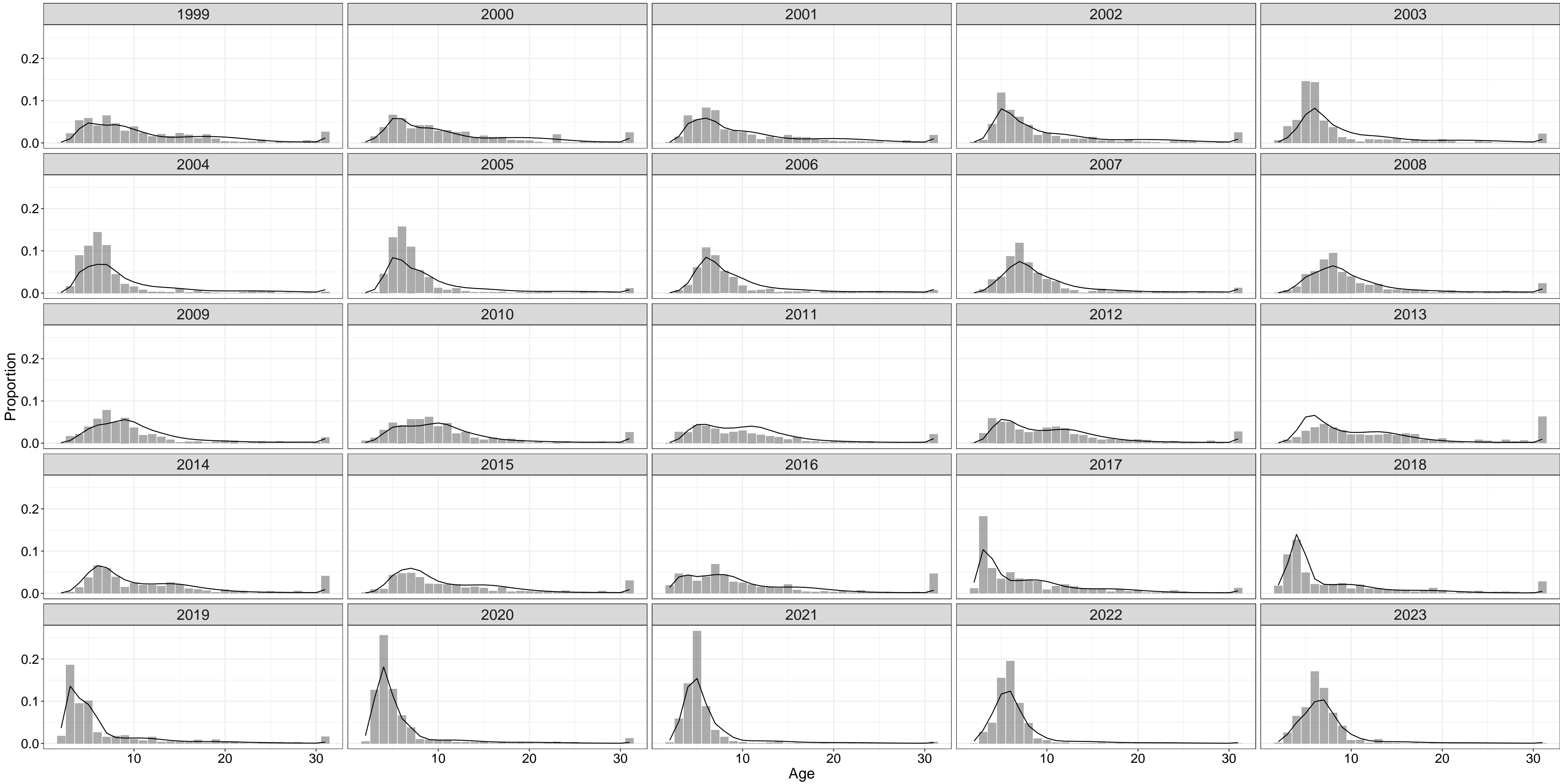


# Index Residuals Runs Test

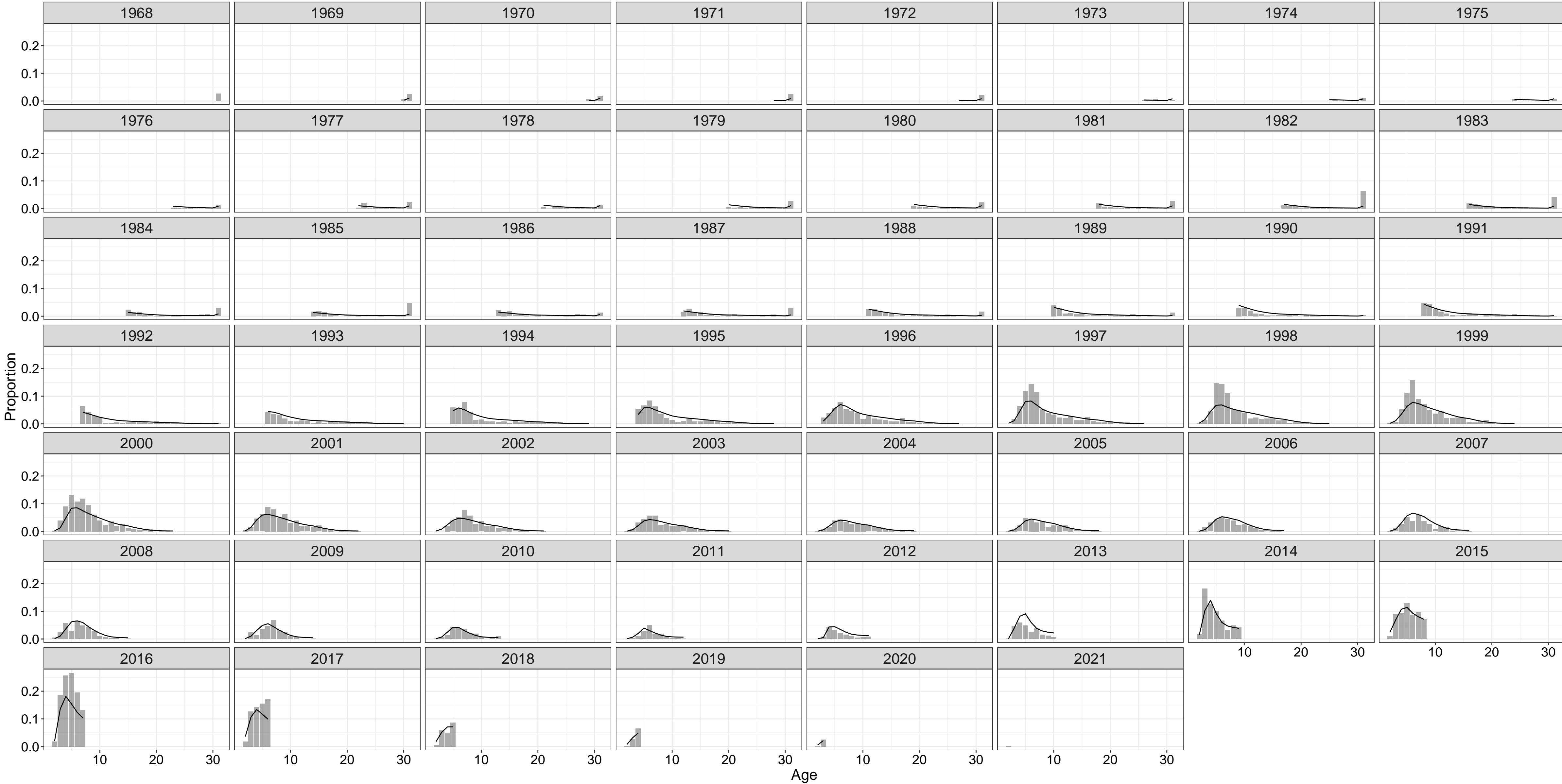


Year

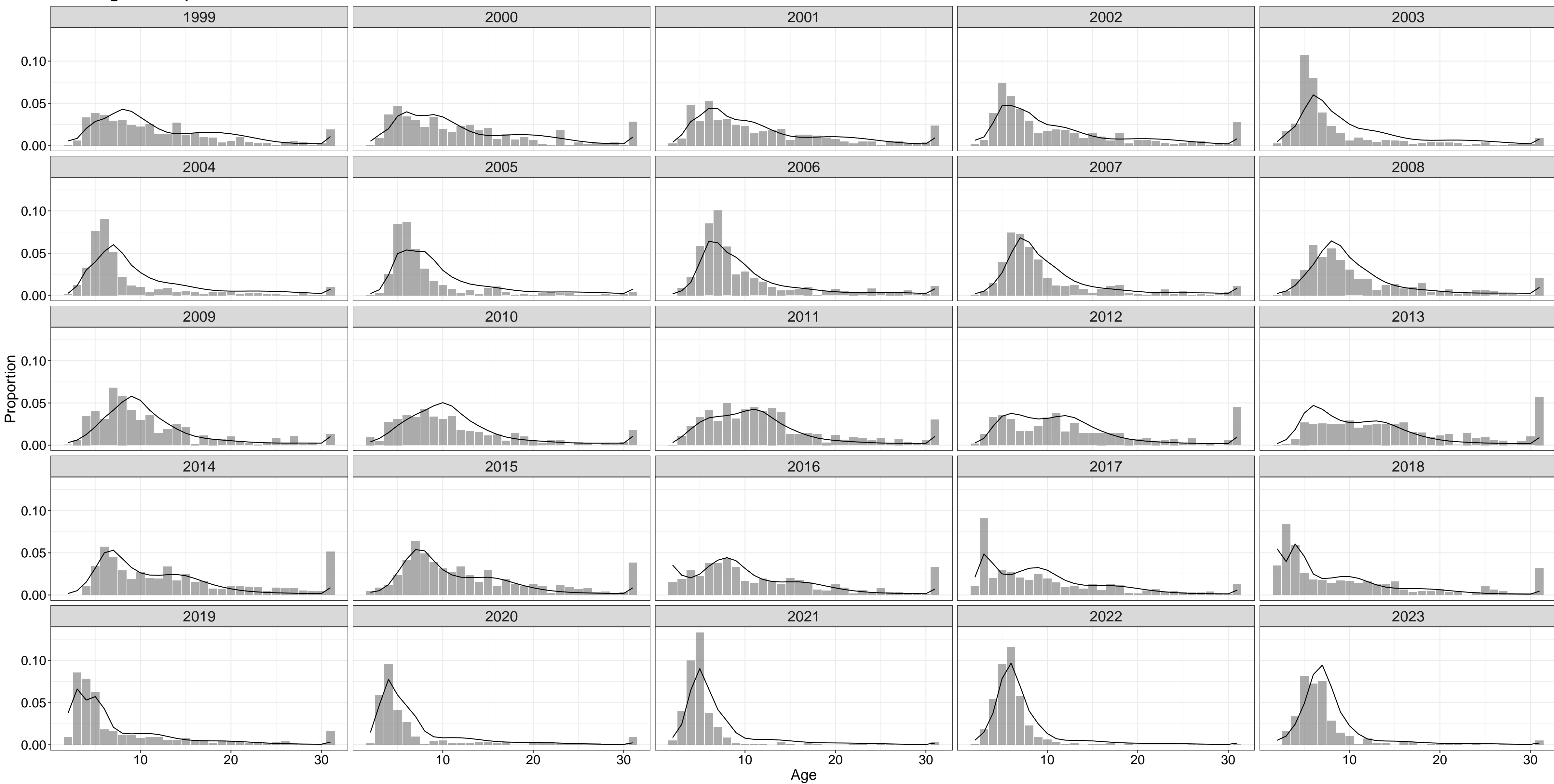
LLF Age Comps Female



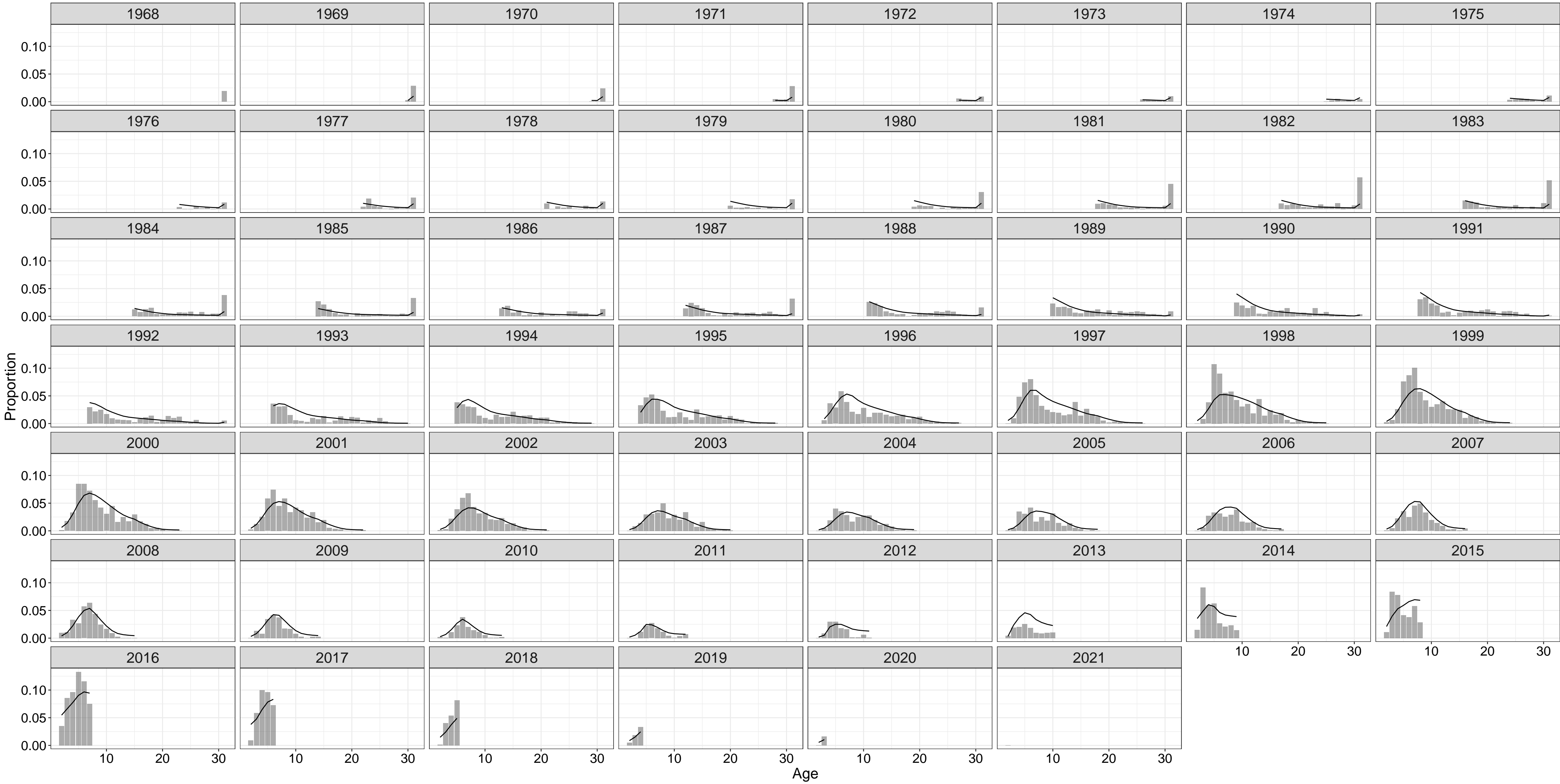
LLF Age Comps Cohort Fits Female



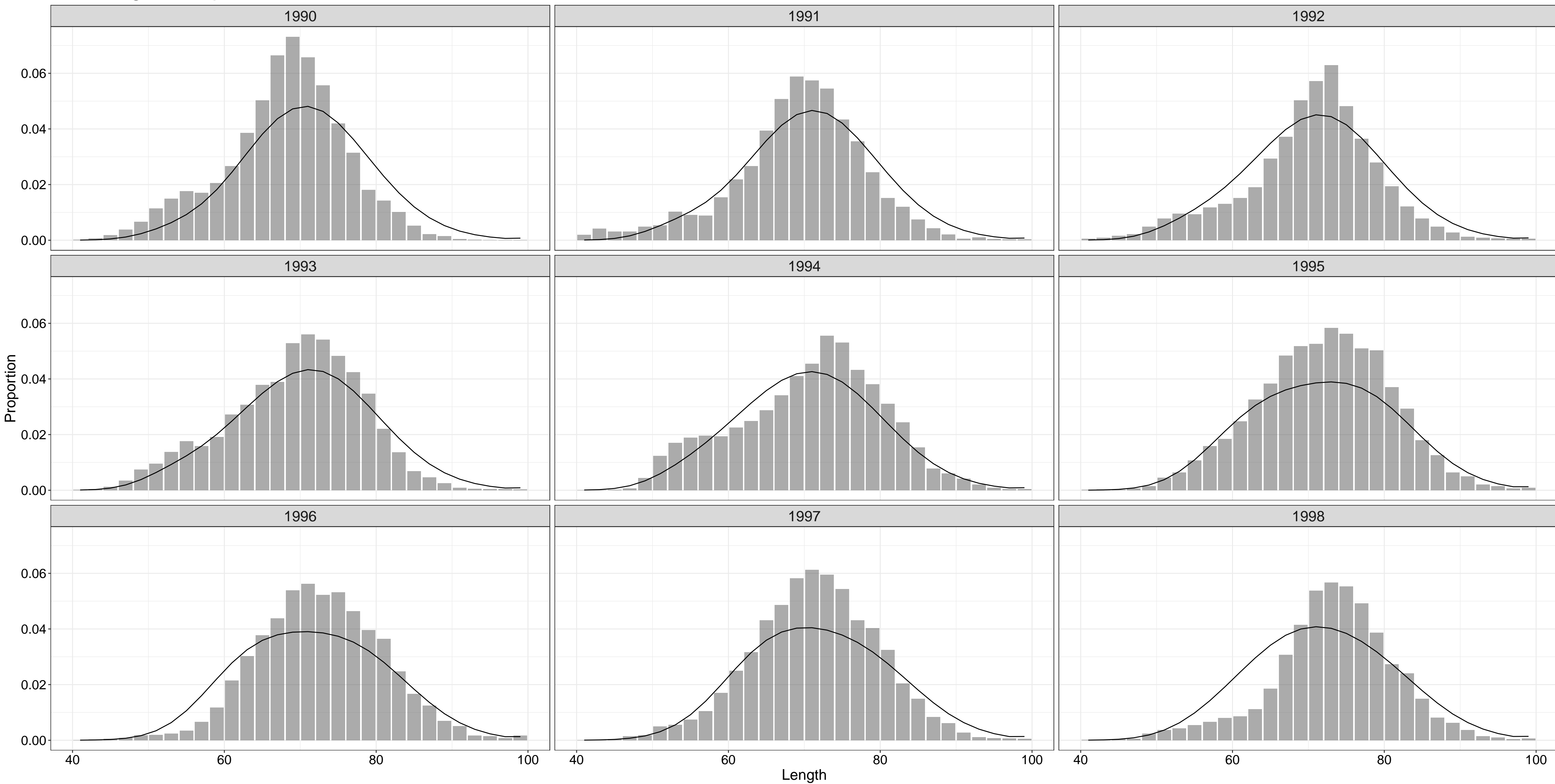
# LLF Age Comps Male



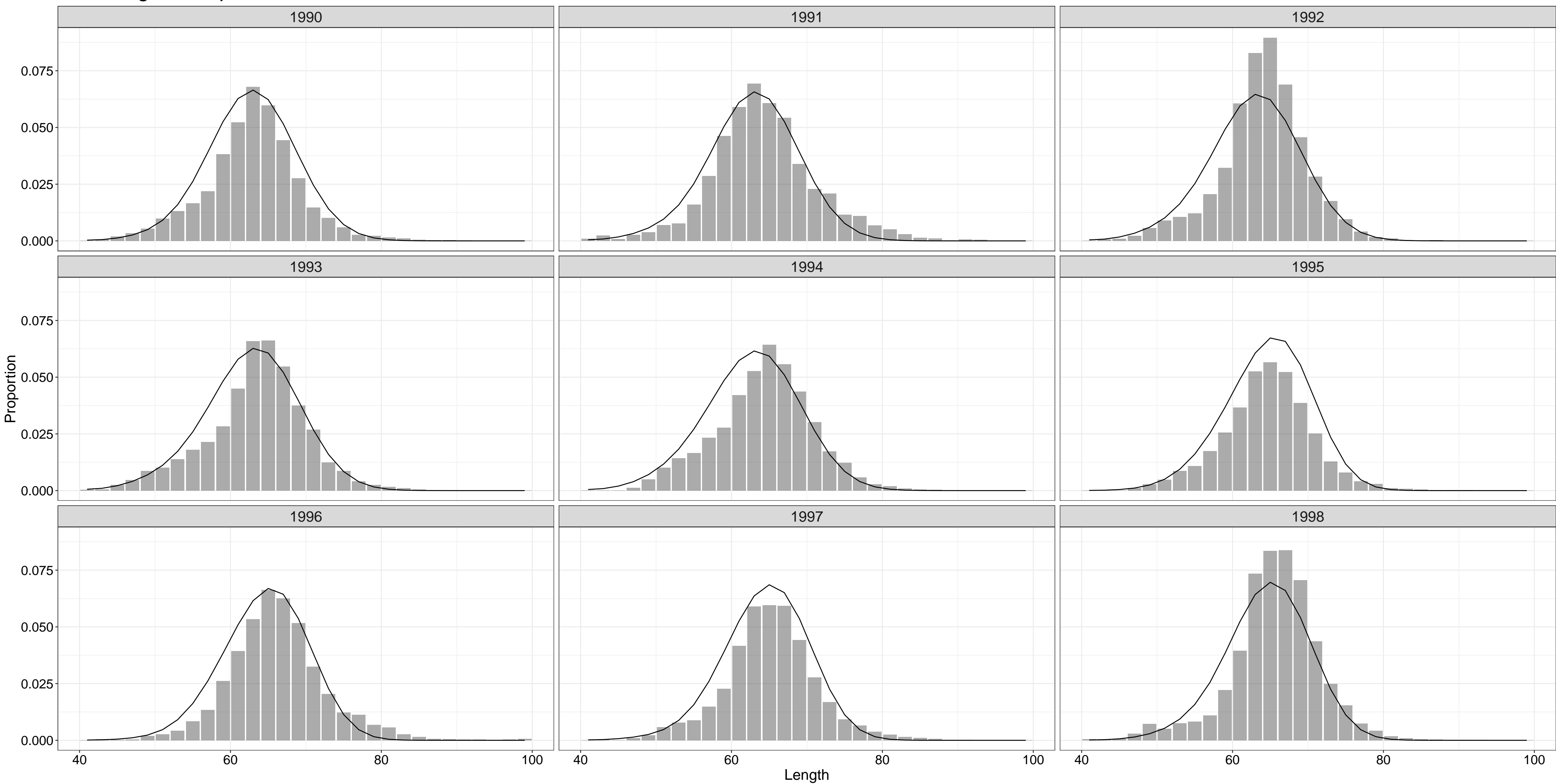
LLF Age Comps Cohort Fits Male



# LLF Length Comps Female

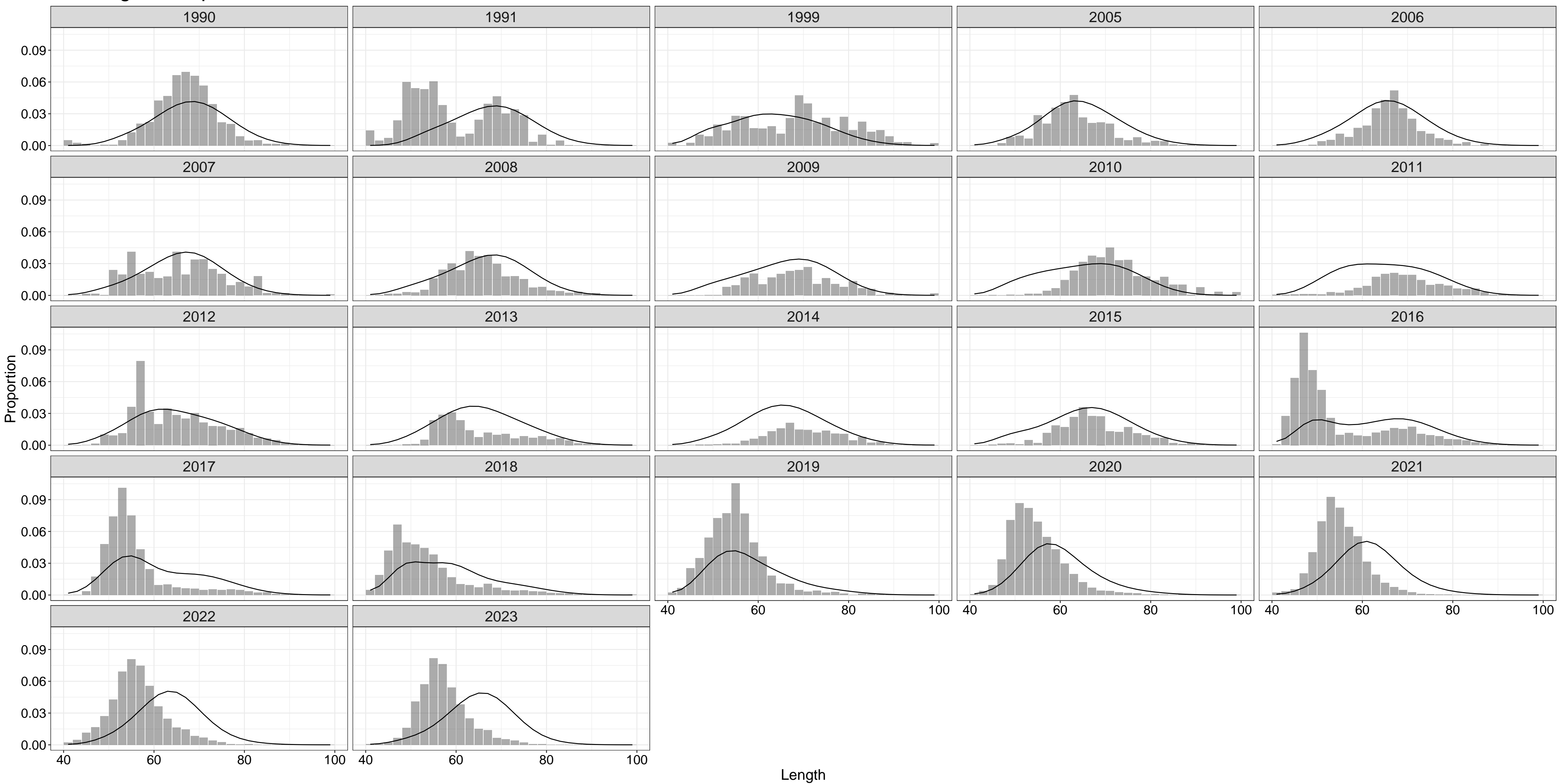


# LLF Length Comps Male

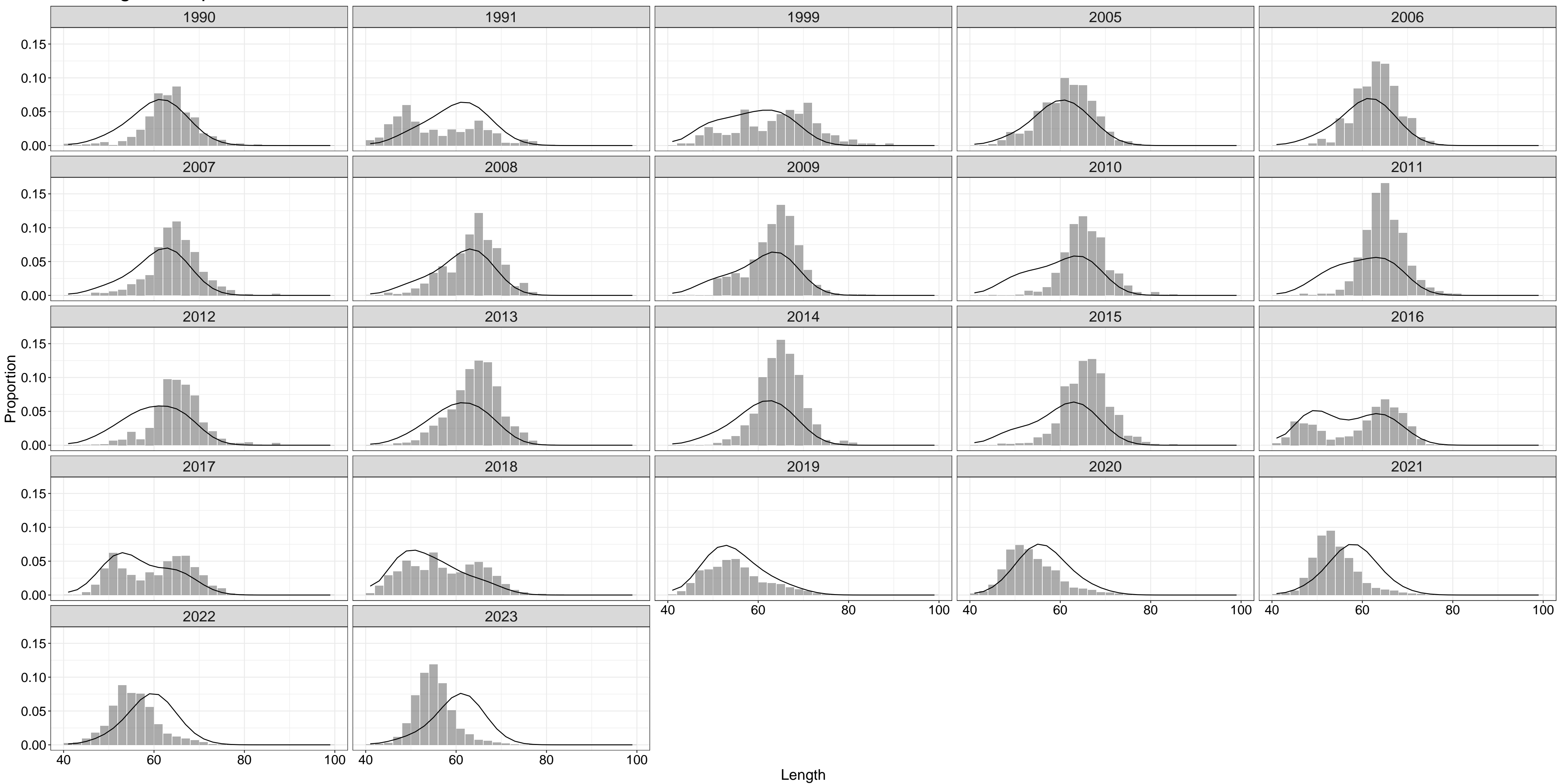




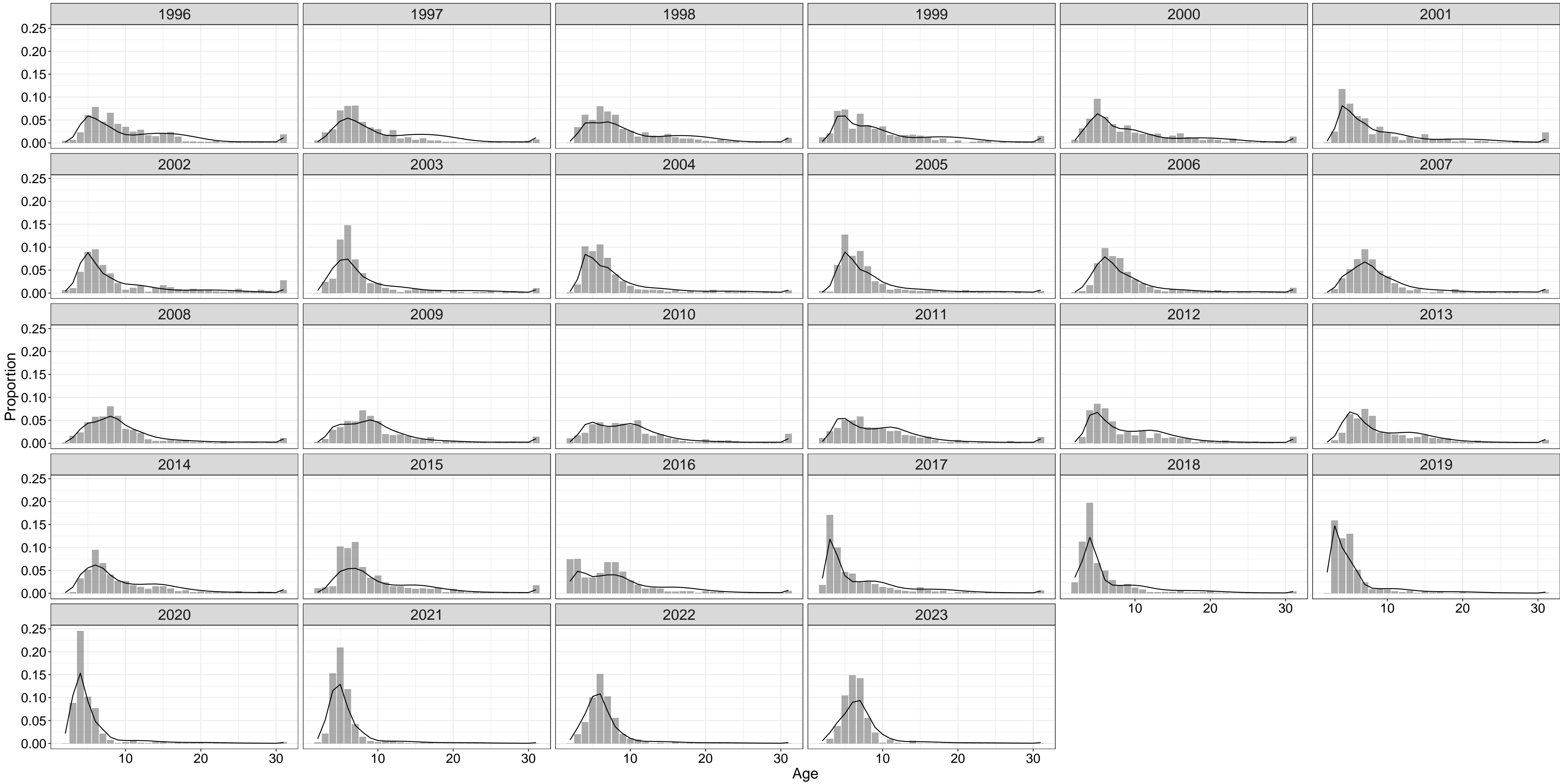
# TF Length Comps Female



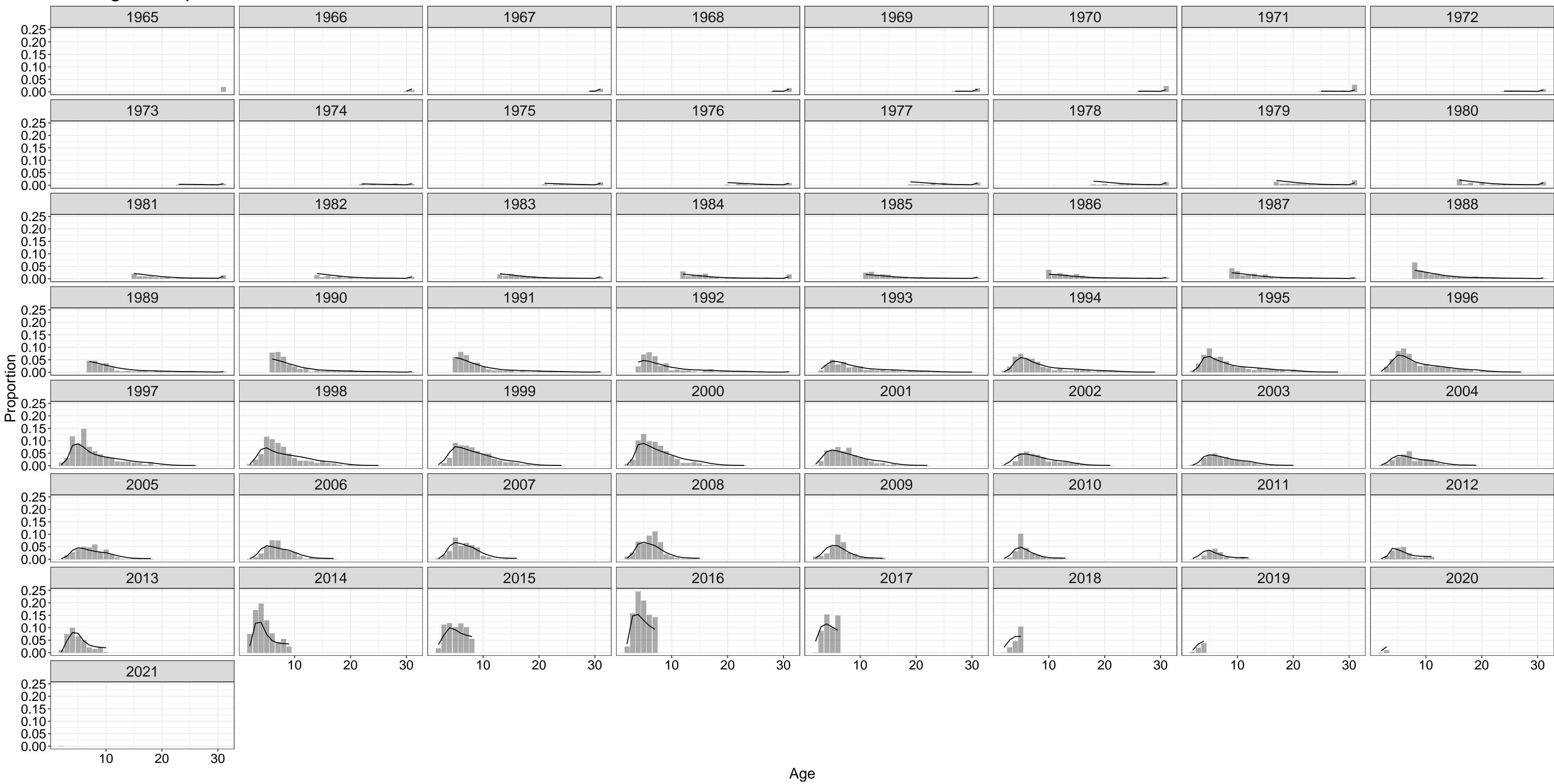
# TF Length Comps Male



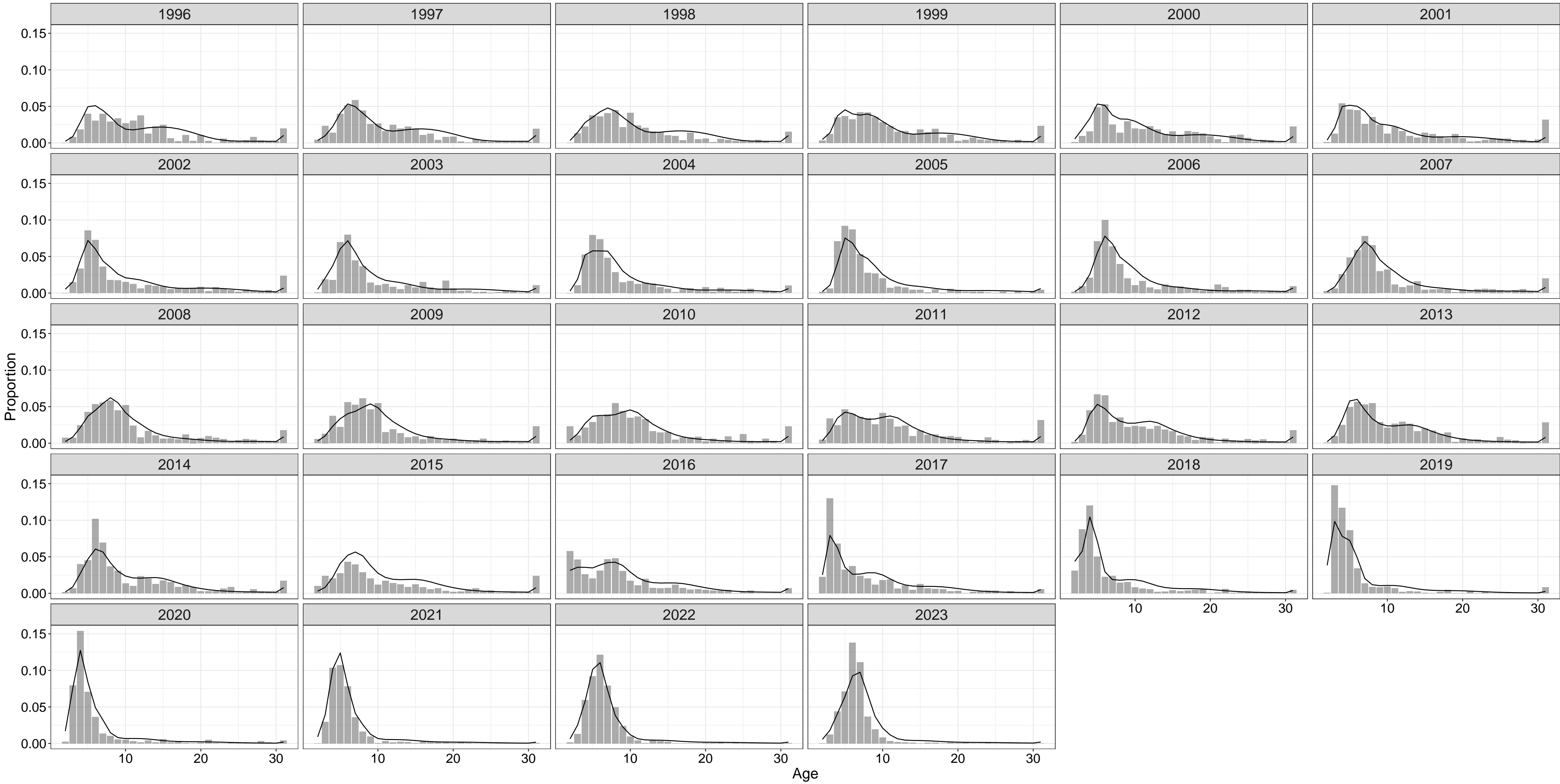
# LLS Age Comps Female



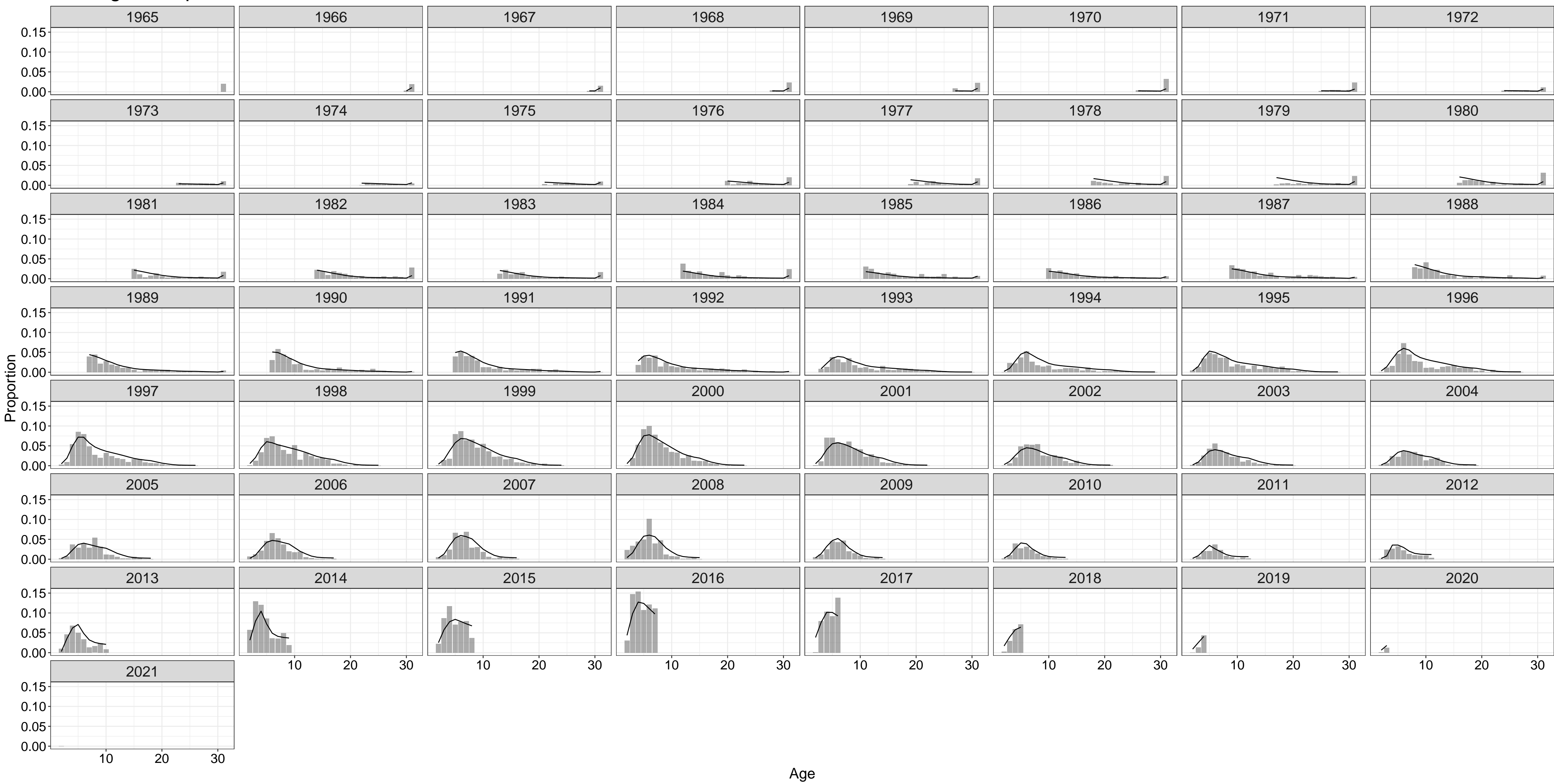
# LLS Age Comps Cohort Fit Female



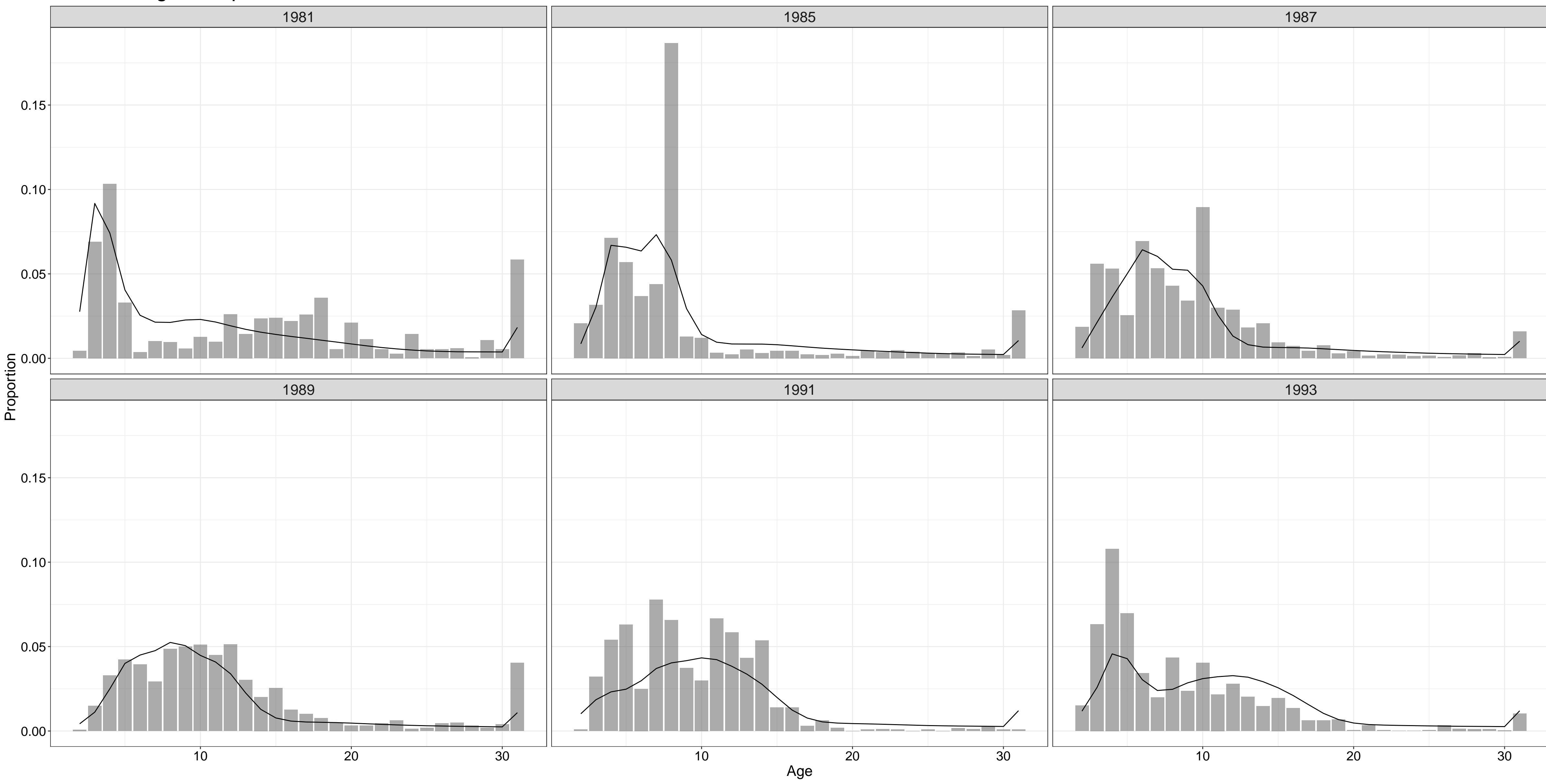
# LLS Age Comps Male



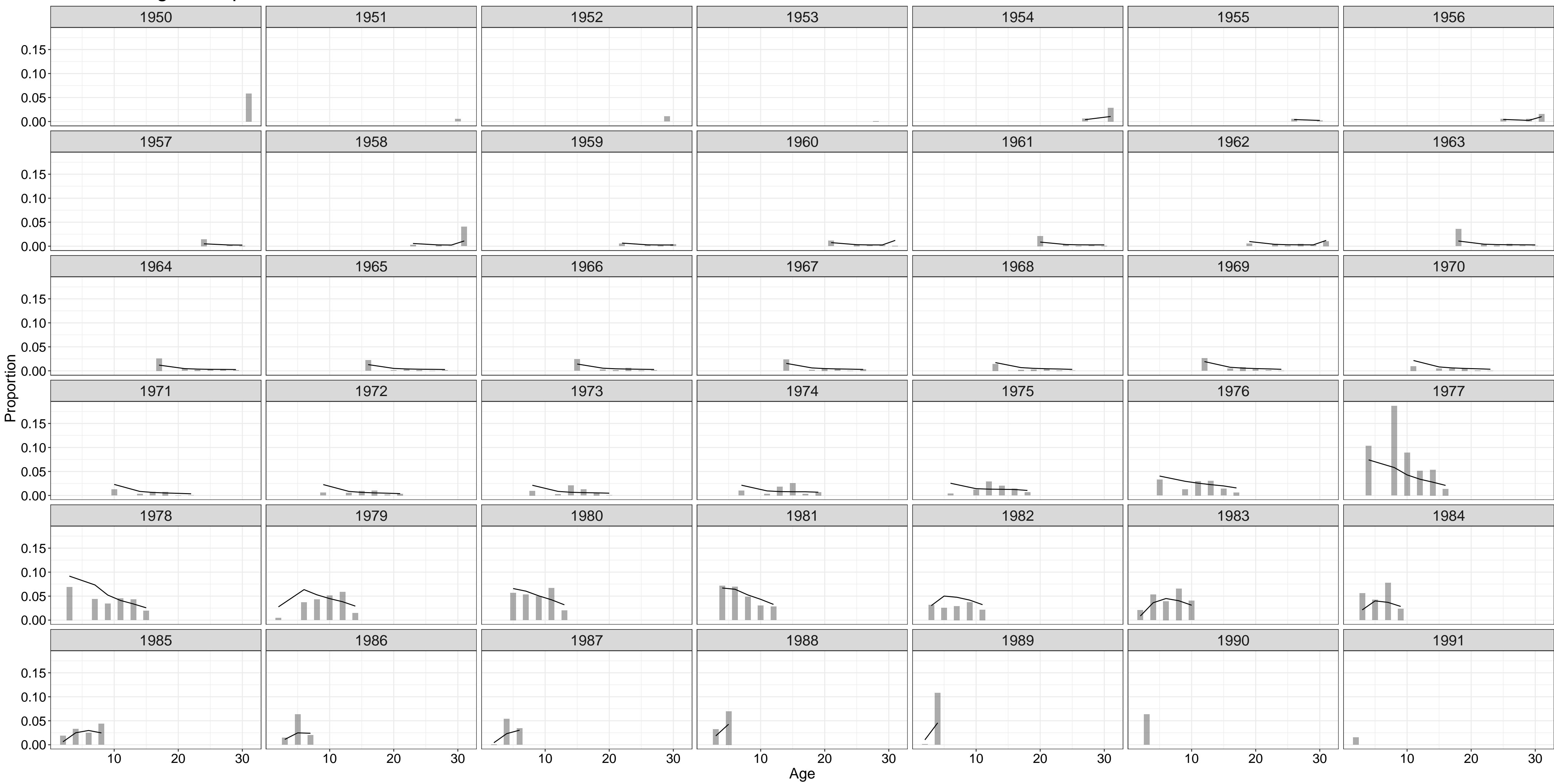
# LLS Age Comps Cohort Fit Male



# JPN LLS Age Comps Female

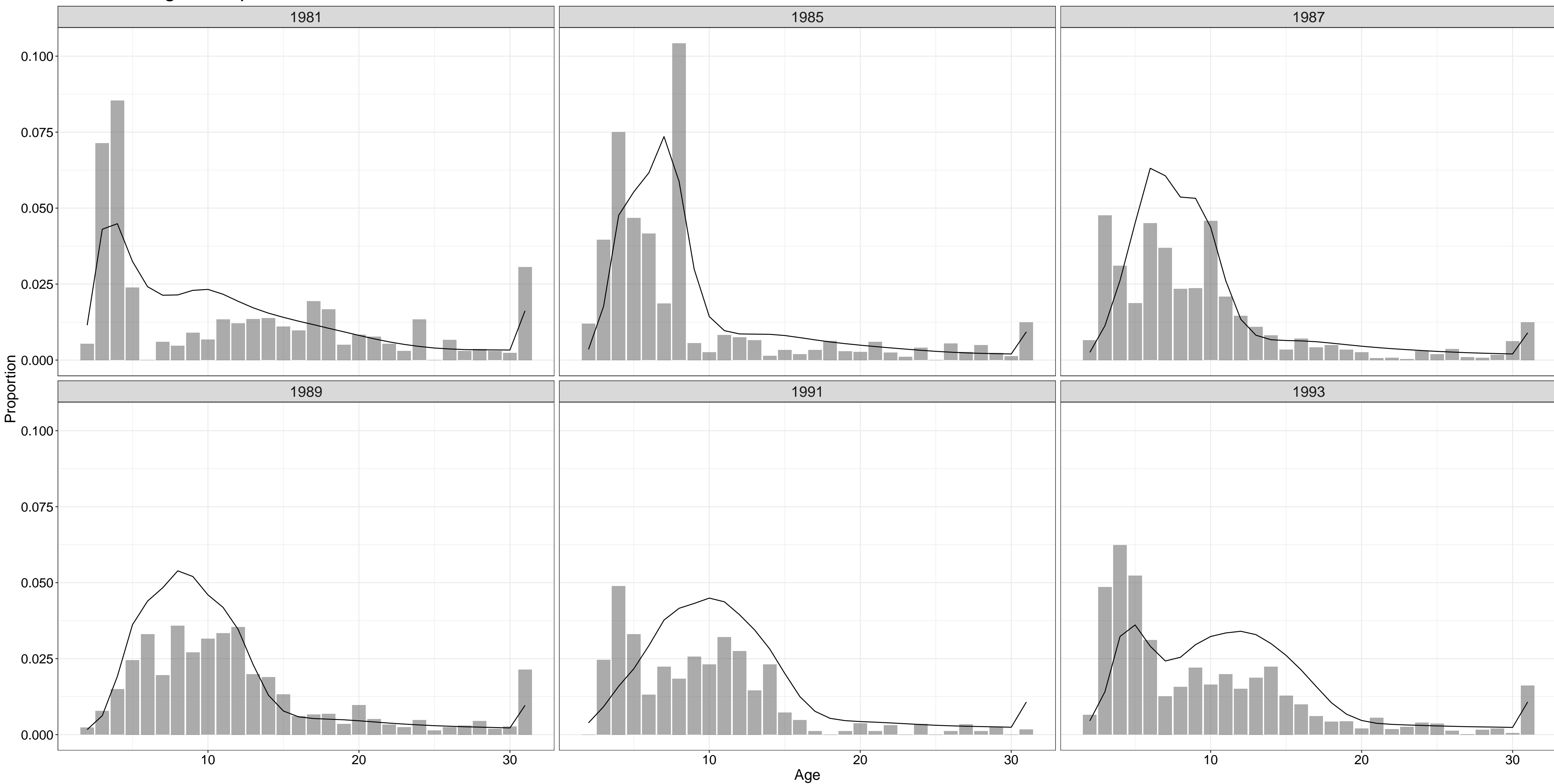


JPN LLS Age Comps Cohort Fit Female

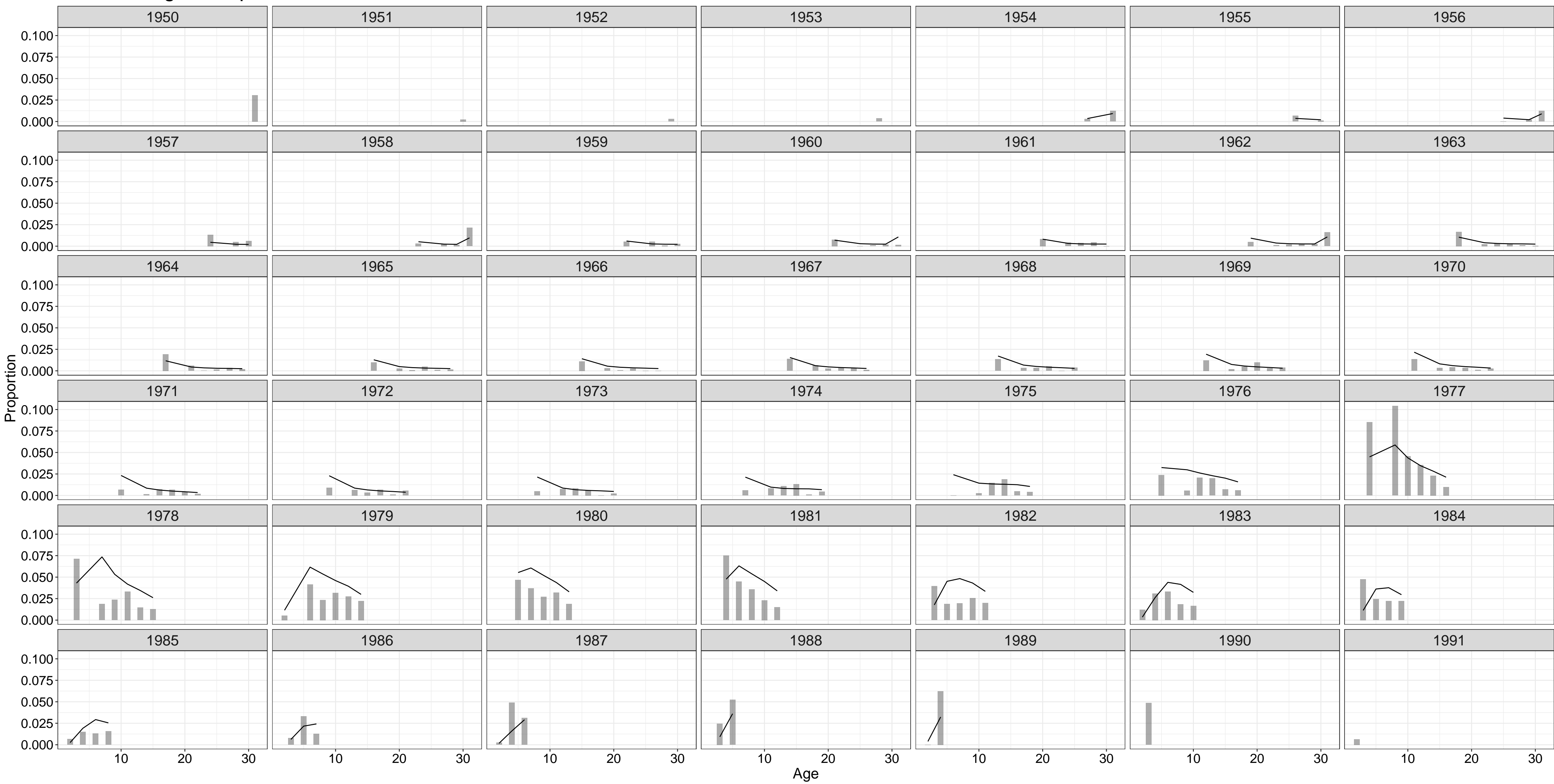




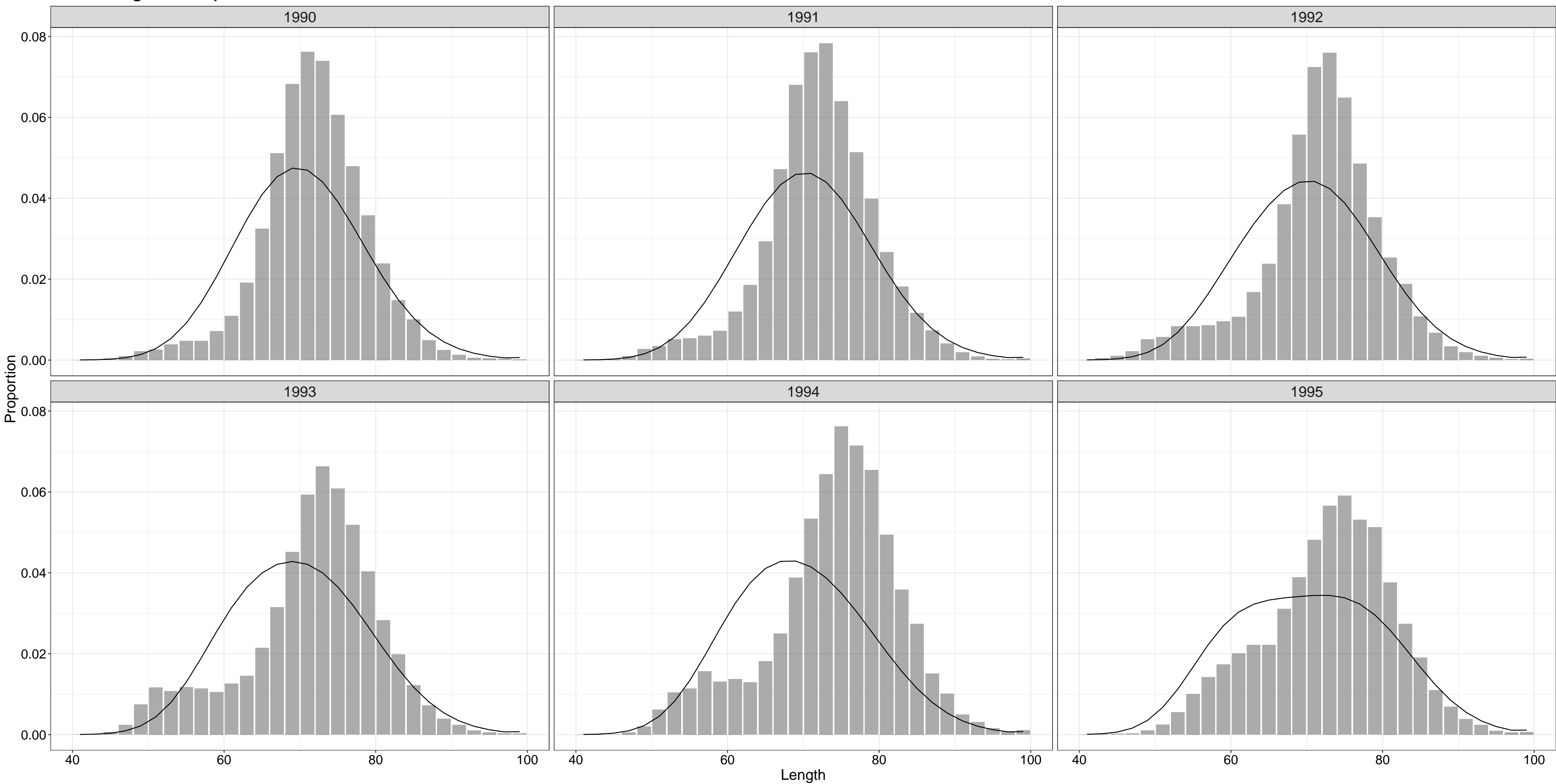
# JPN LLS Age Comps Male



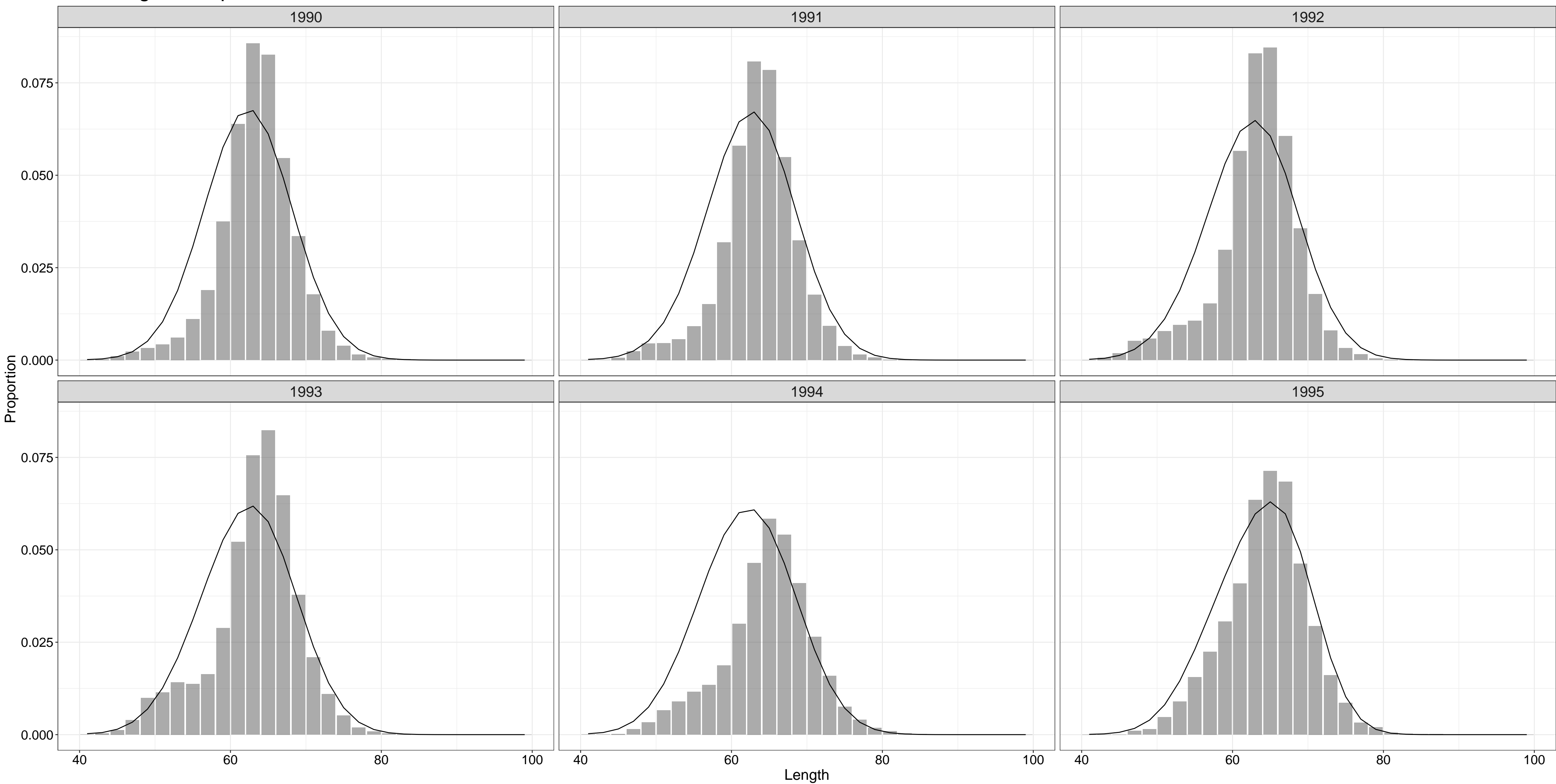
JPN LLS Age Comps Cohort Fit Male



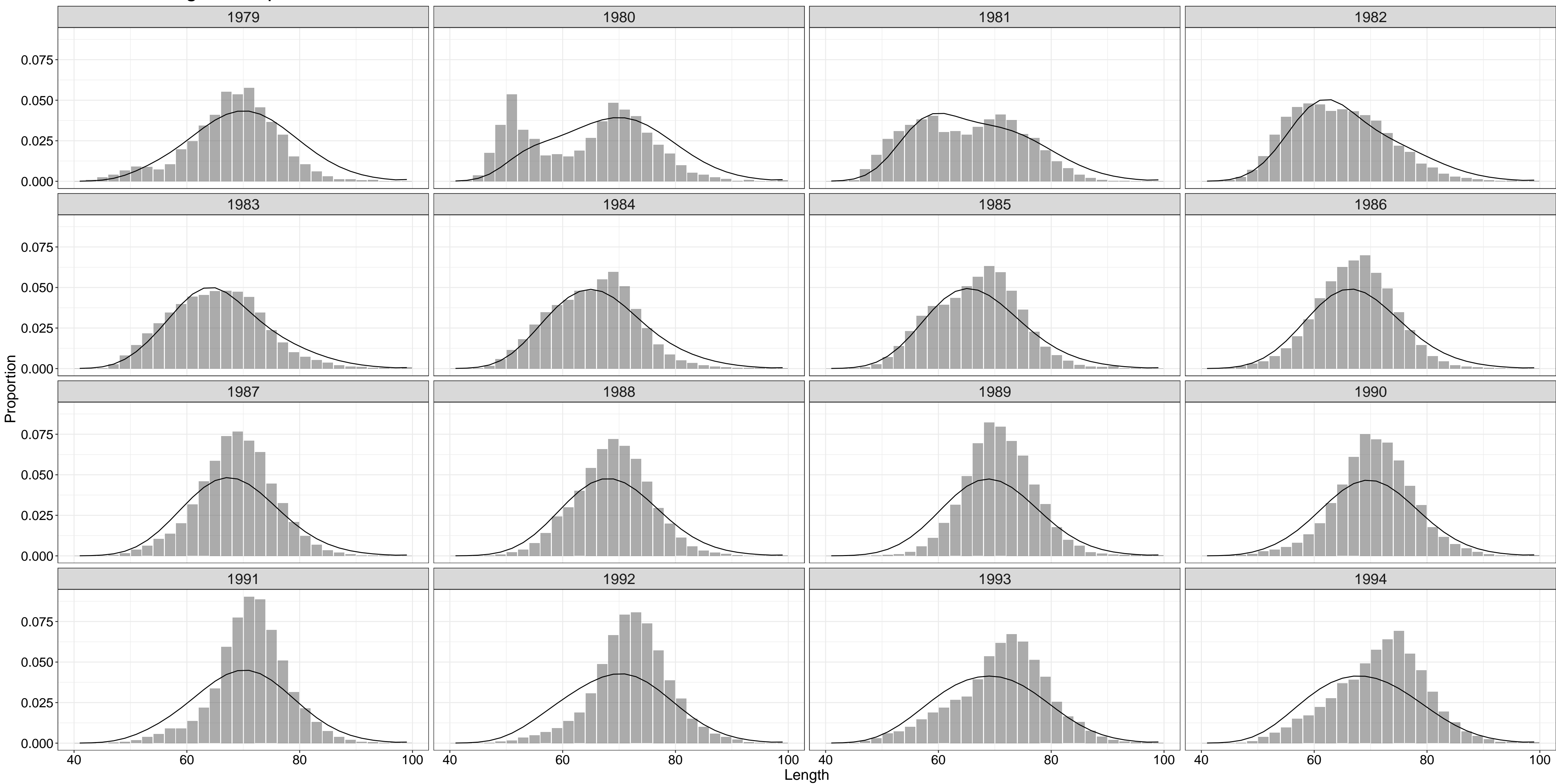
# LLS Length Comps Female



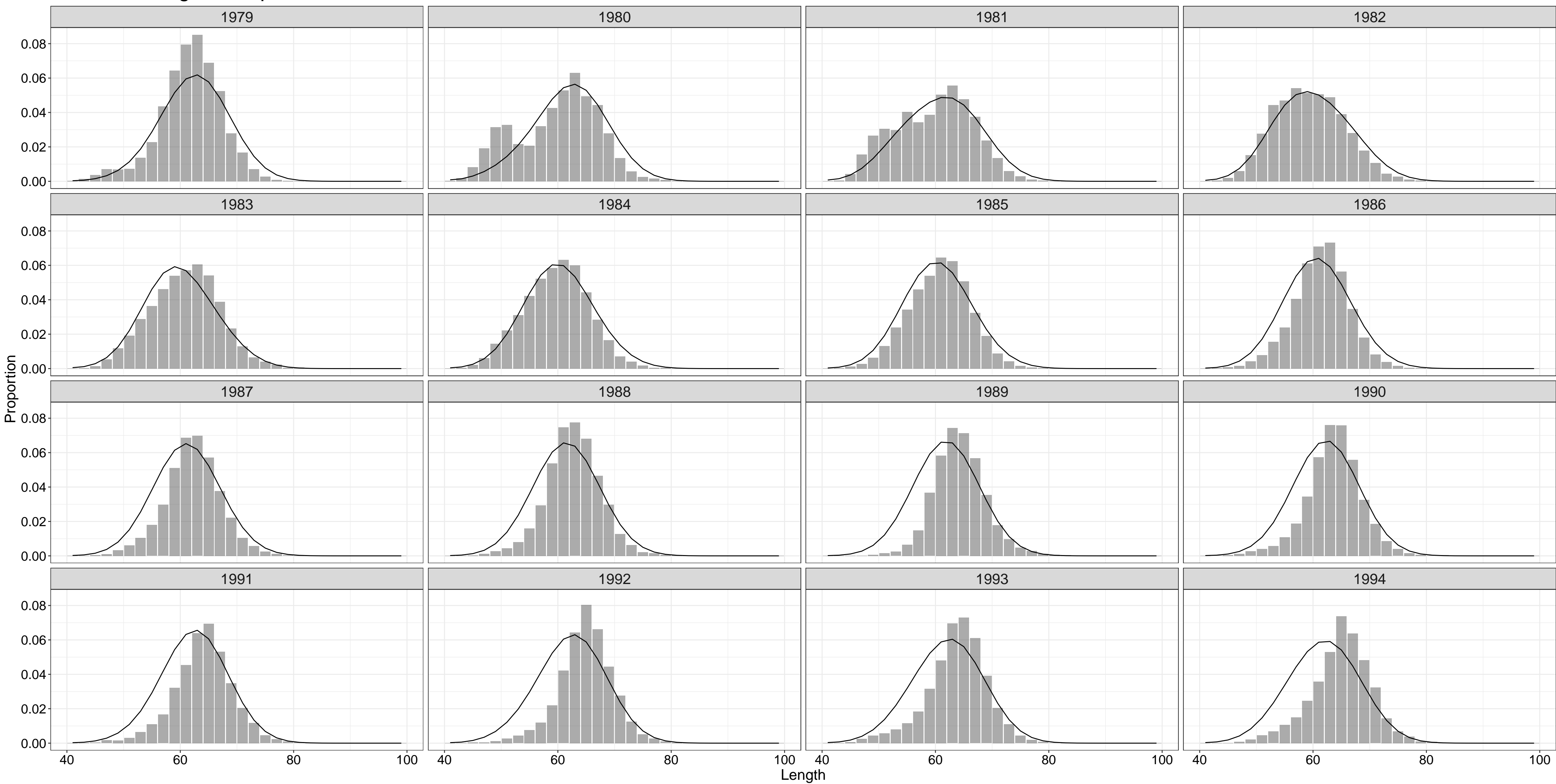
# LLS Length Comps Male

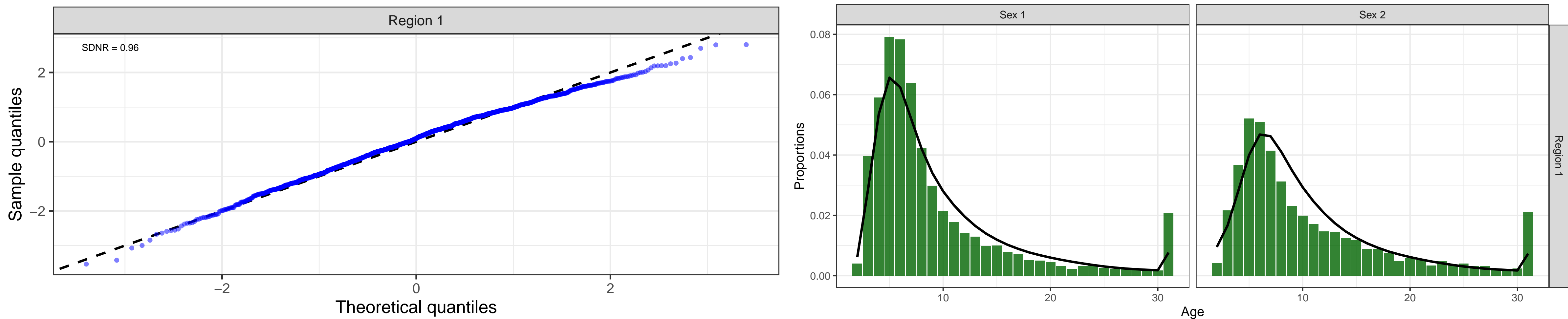
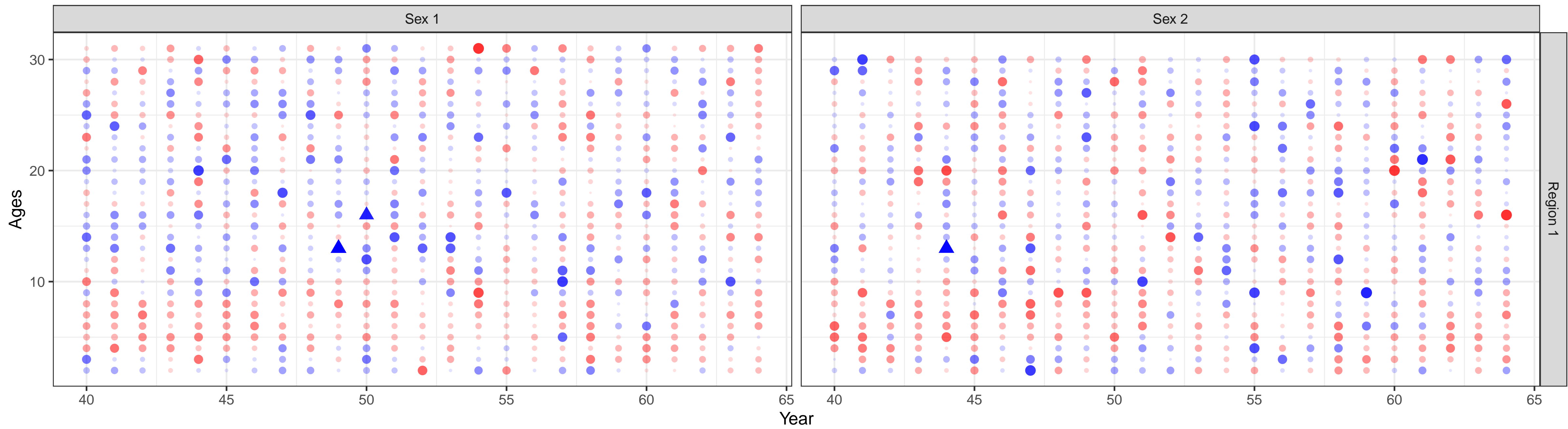


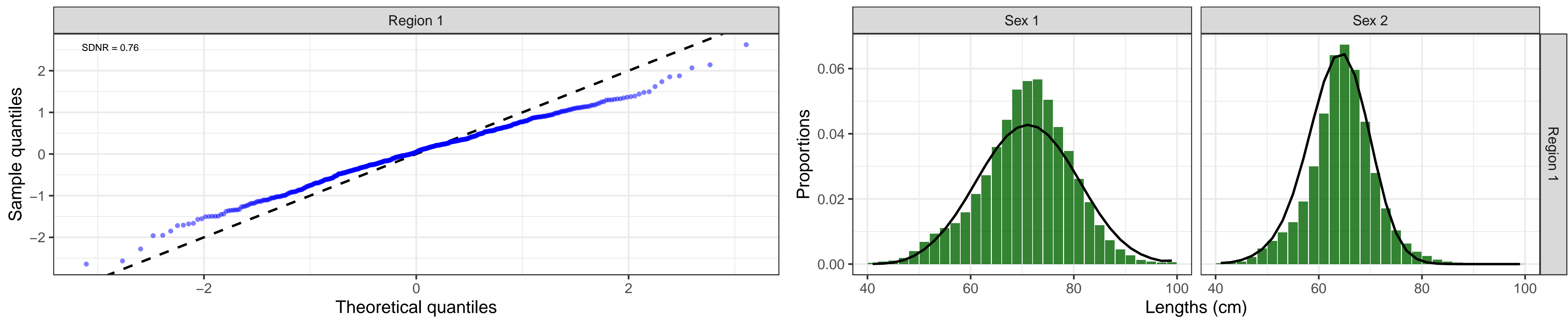
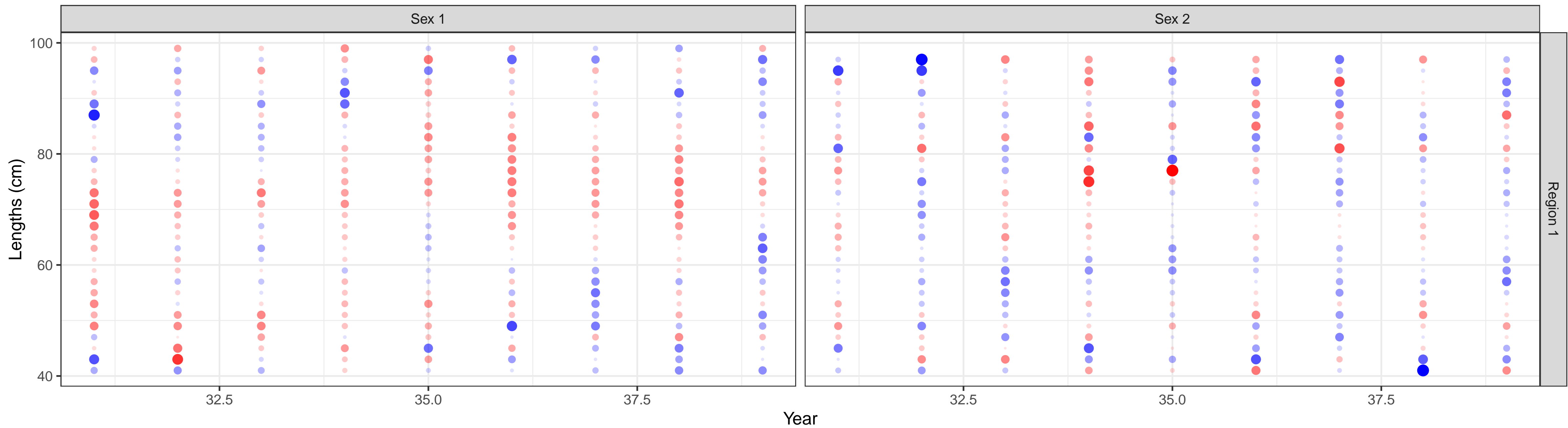
# JPN LLS Length Comps Female



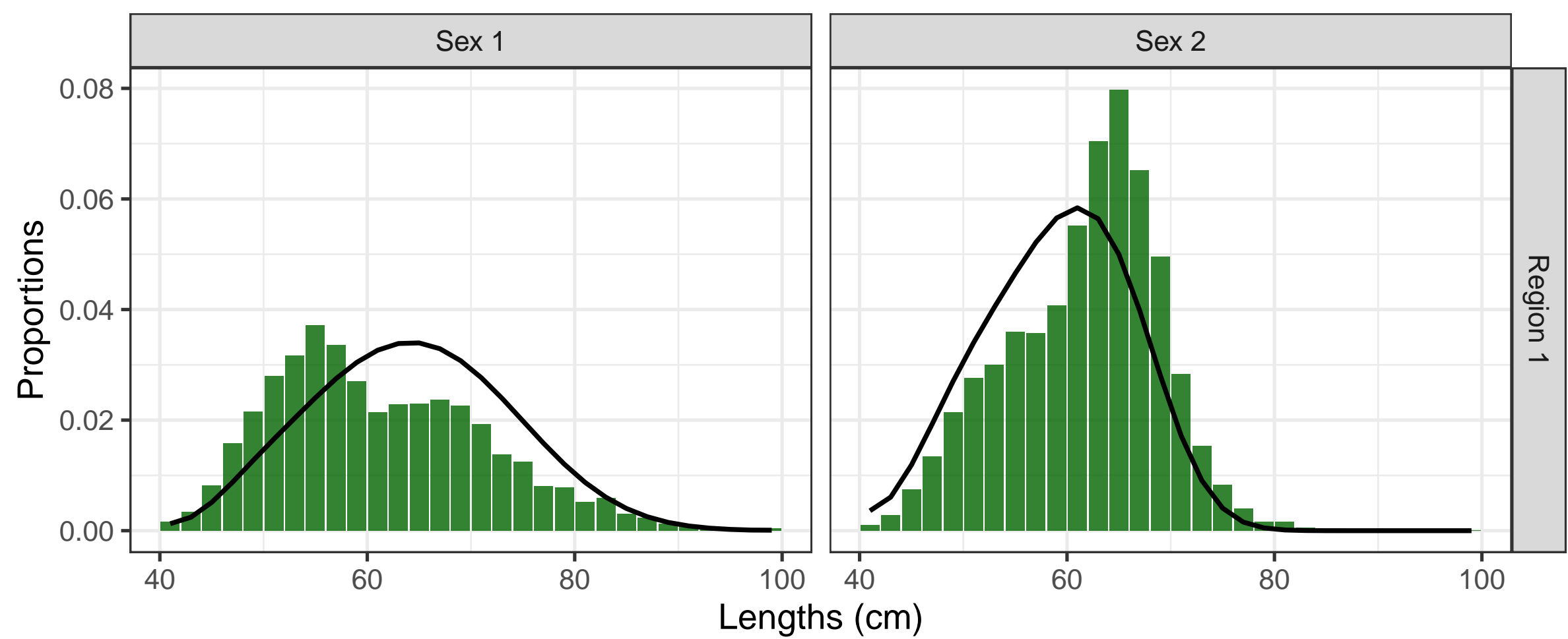
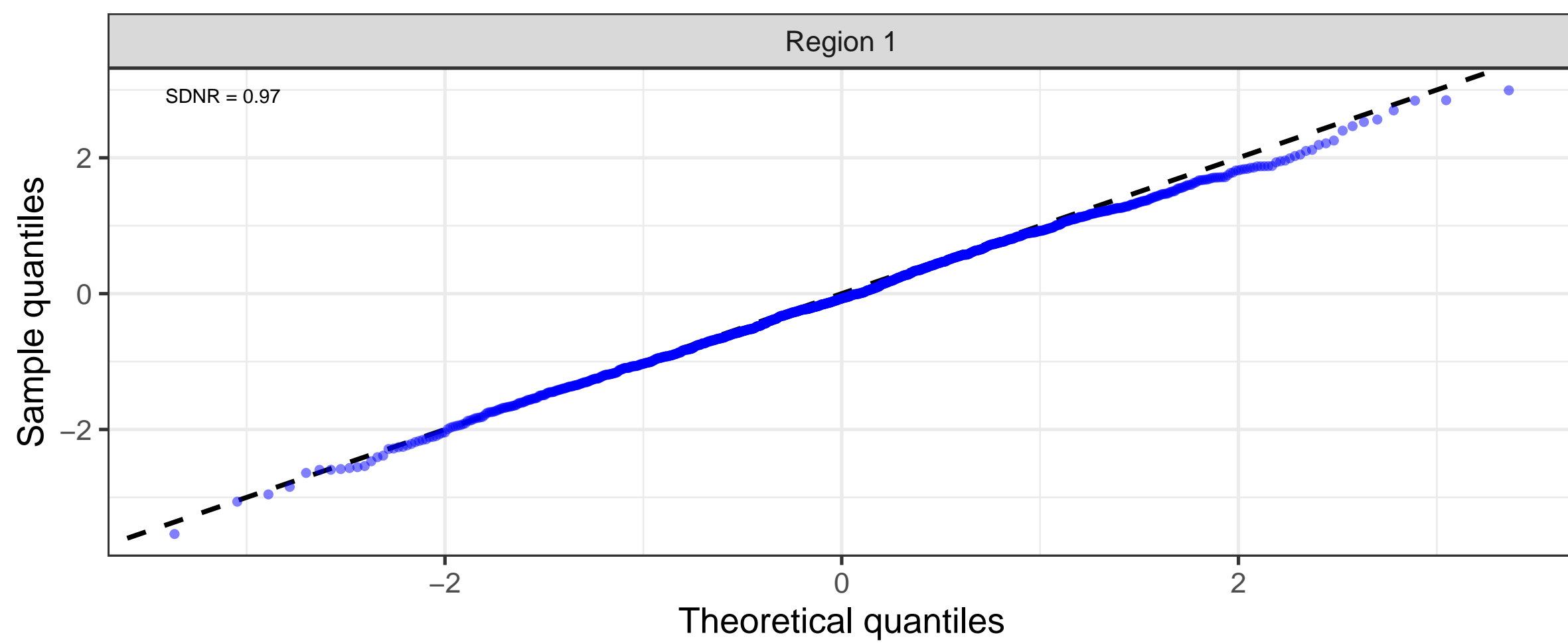
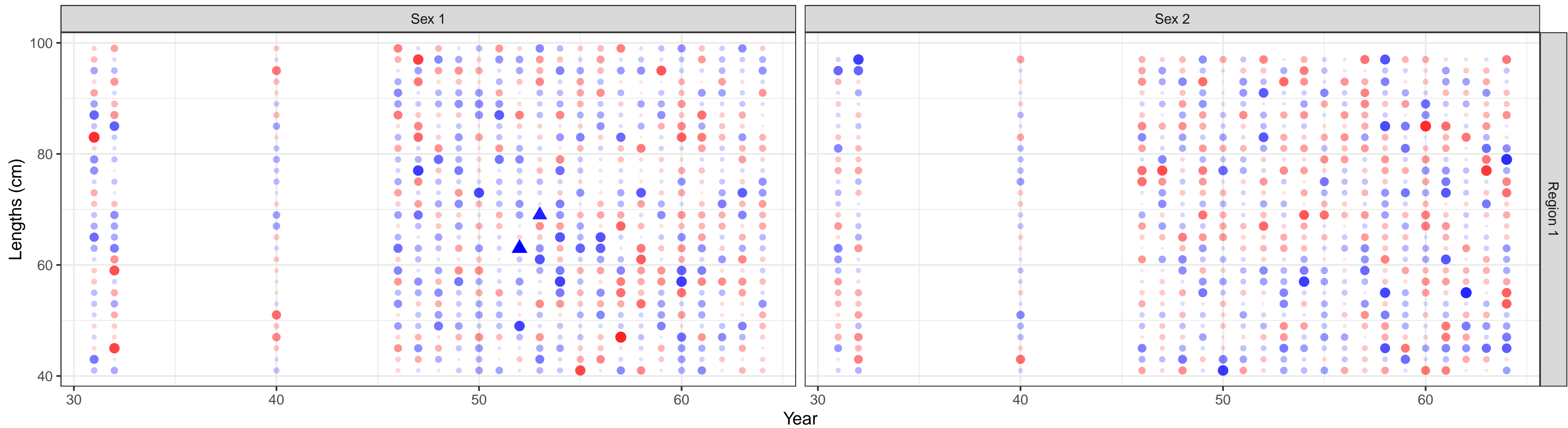
JPN LLS Length Comps Male

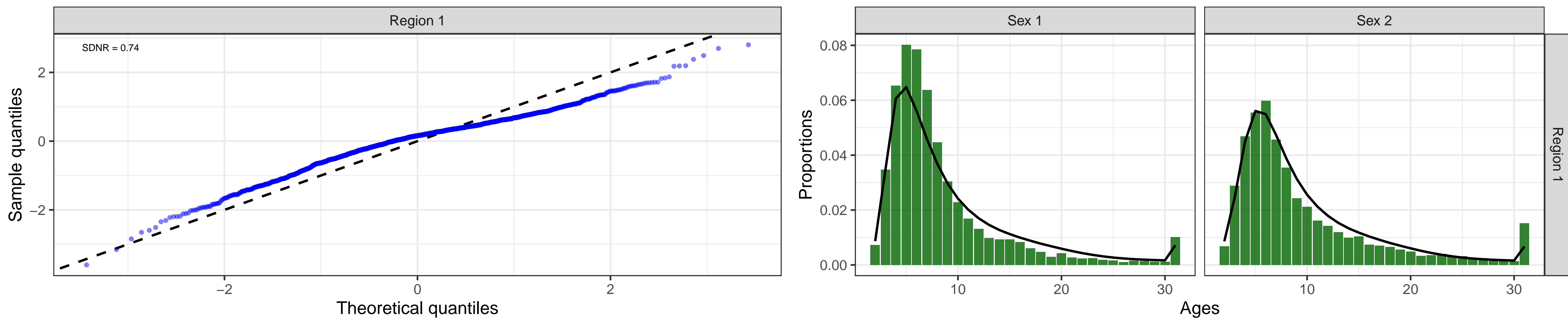
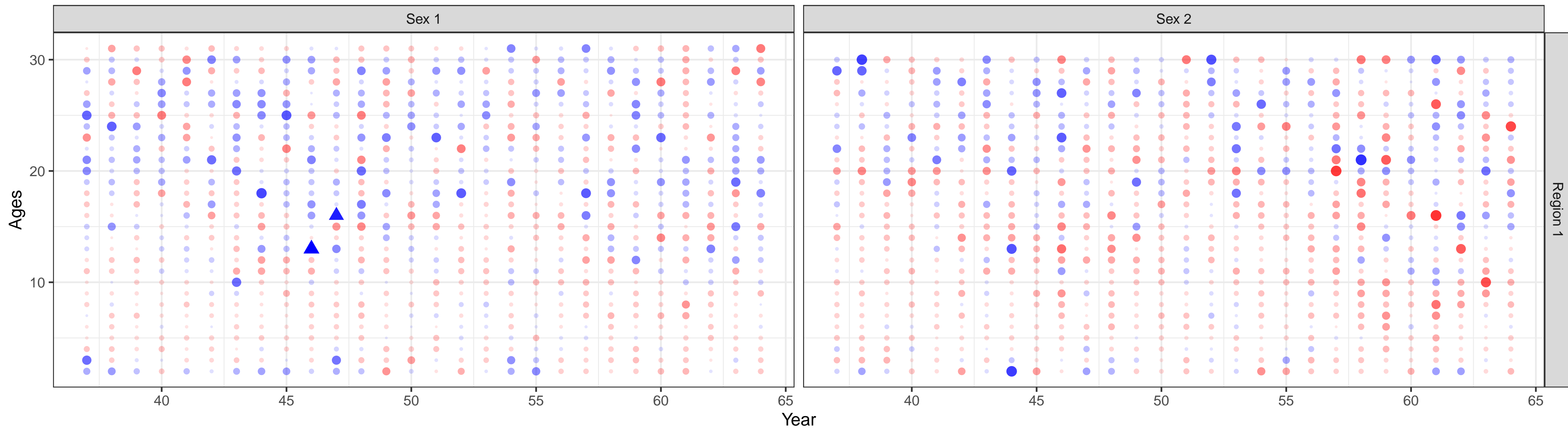


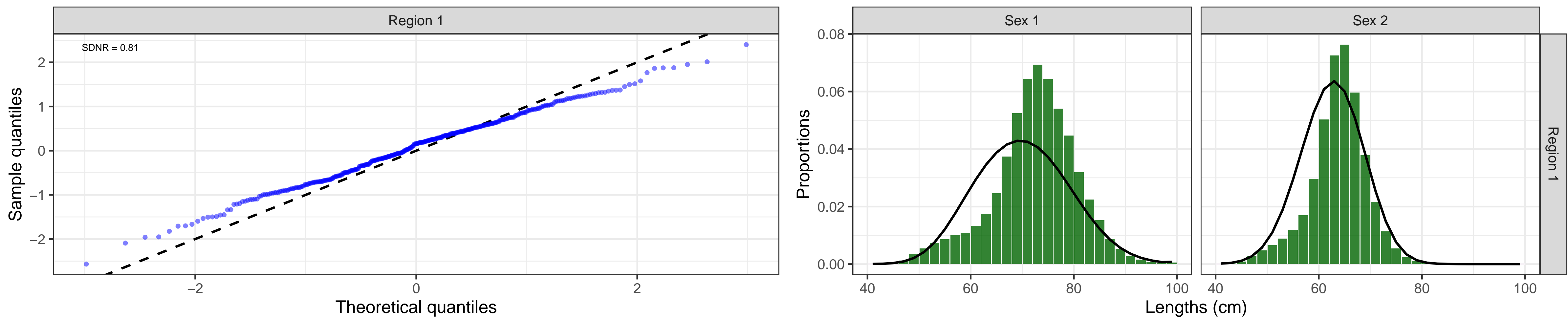
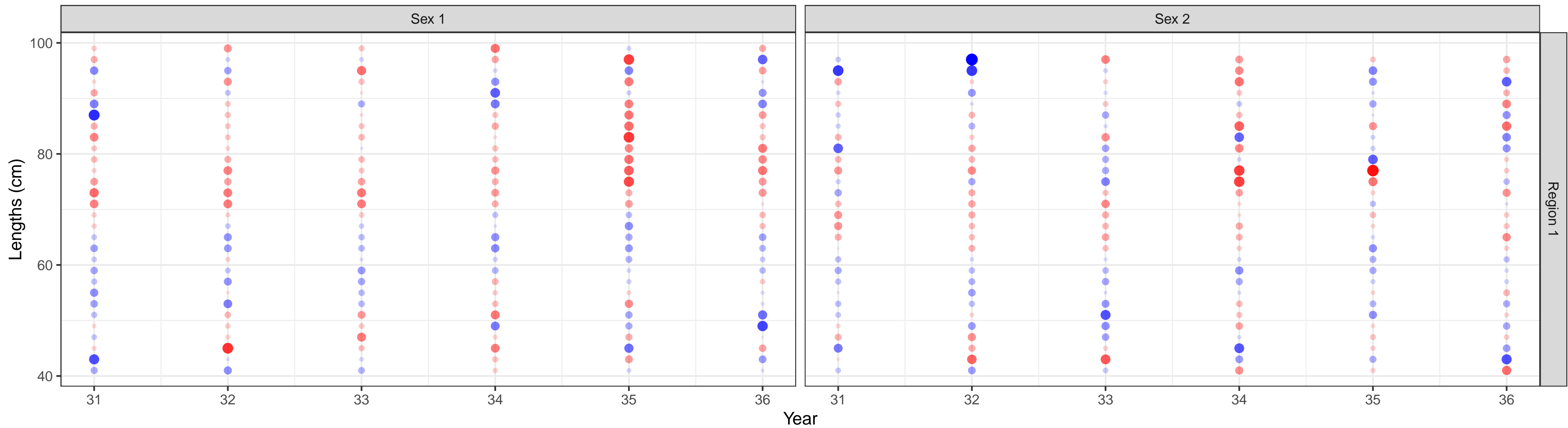




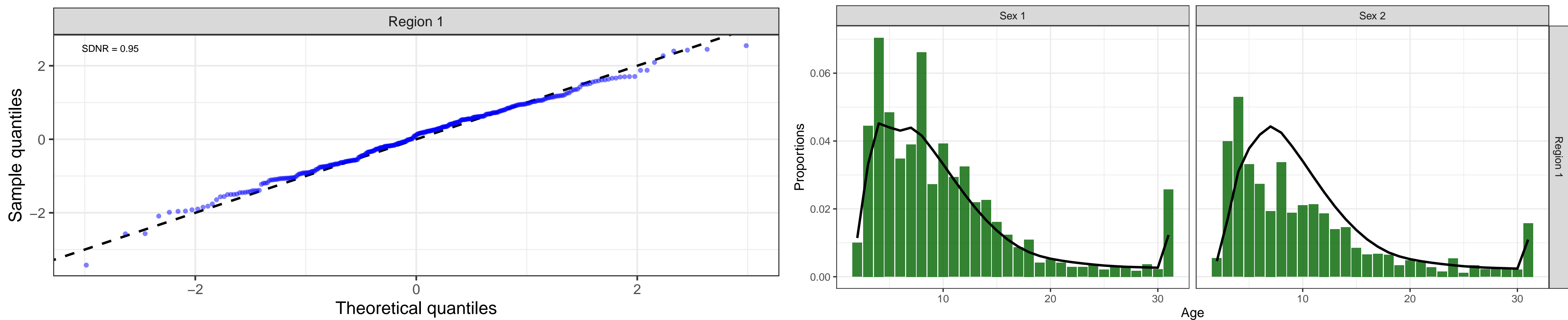
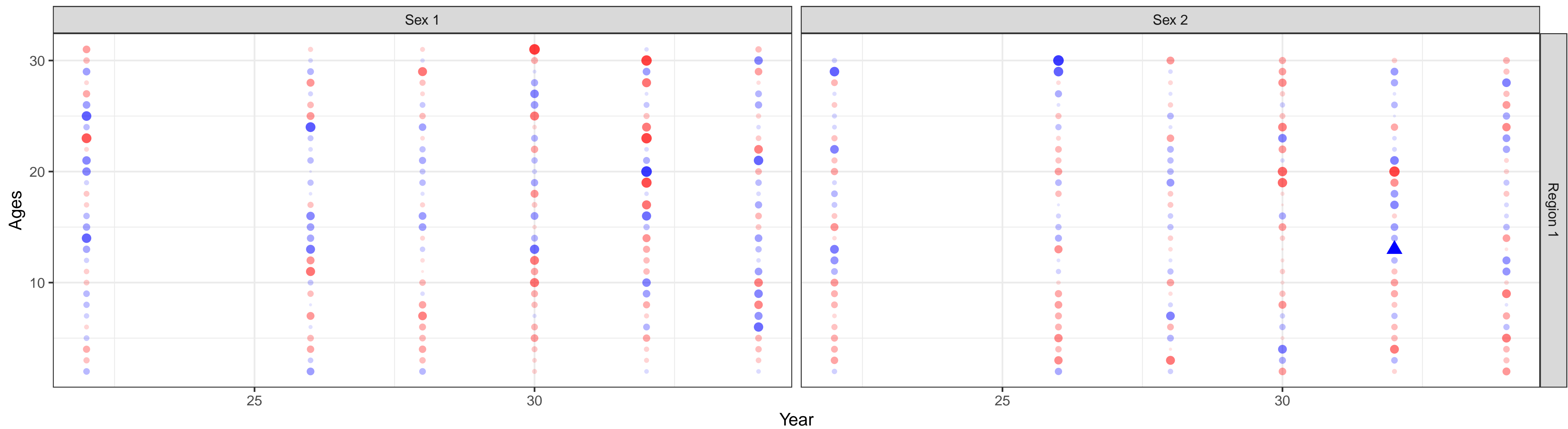


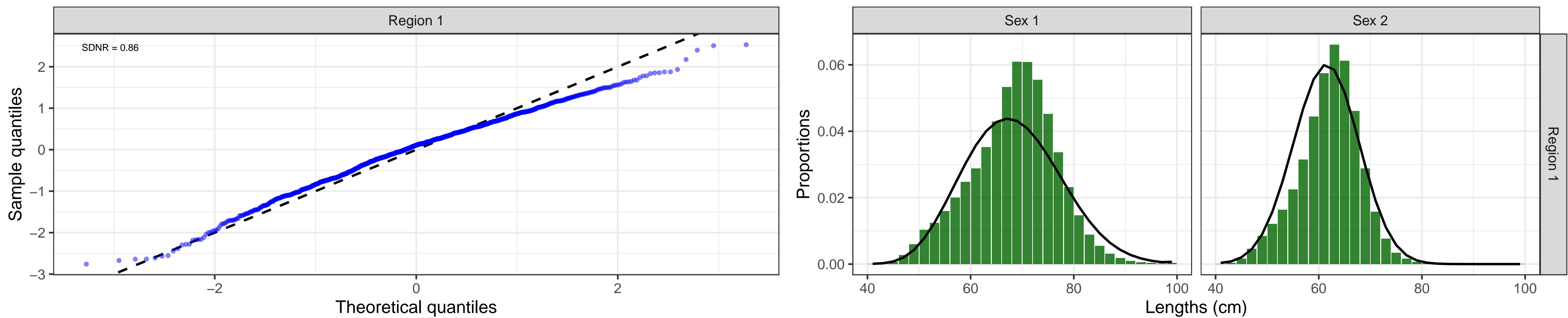
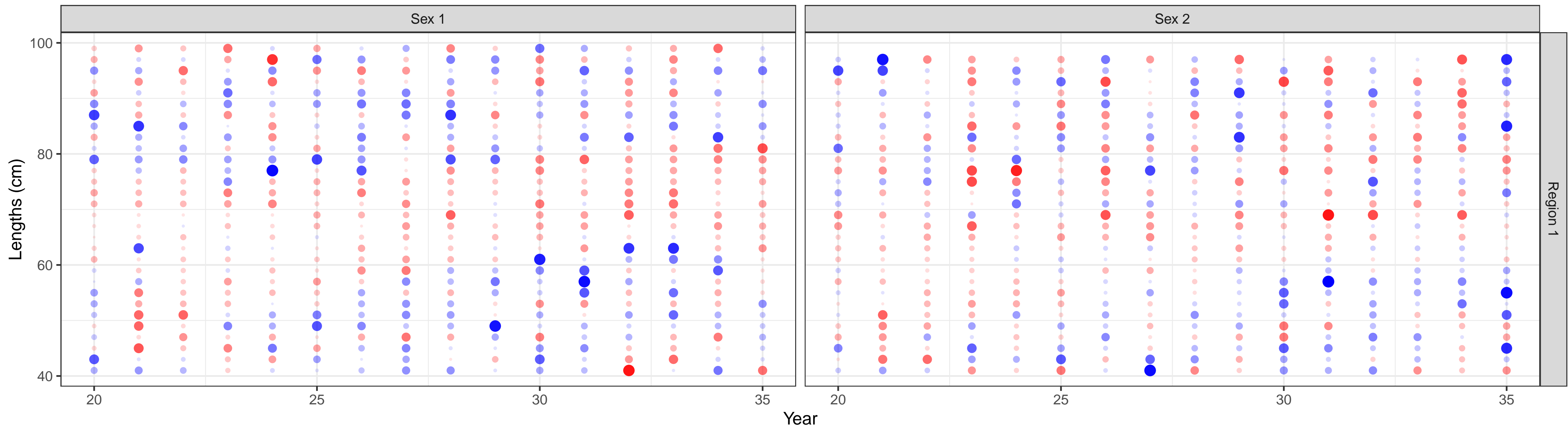


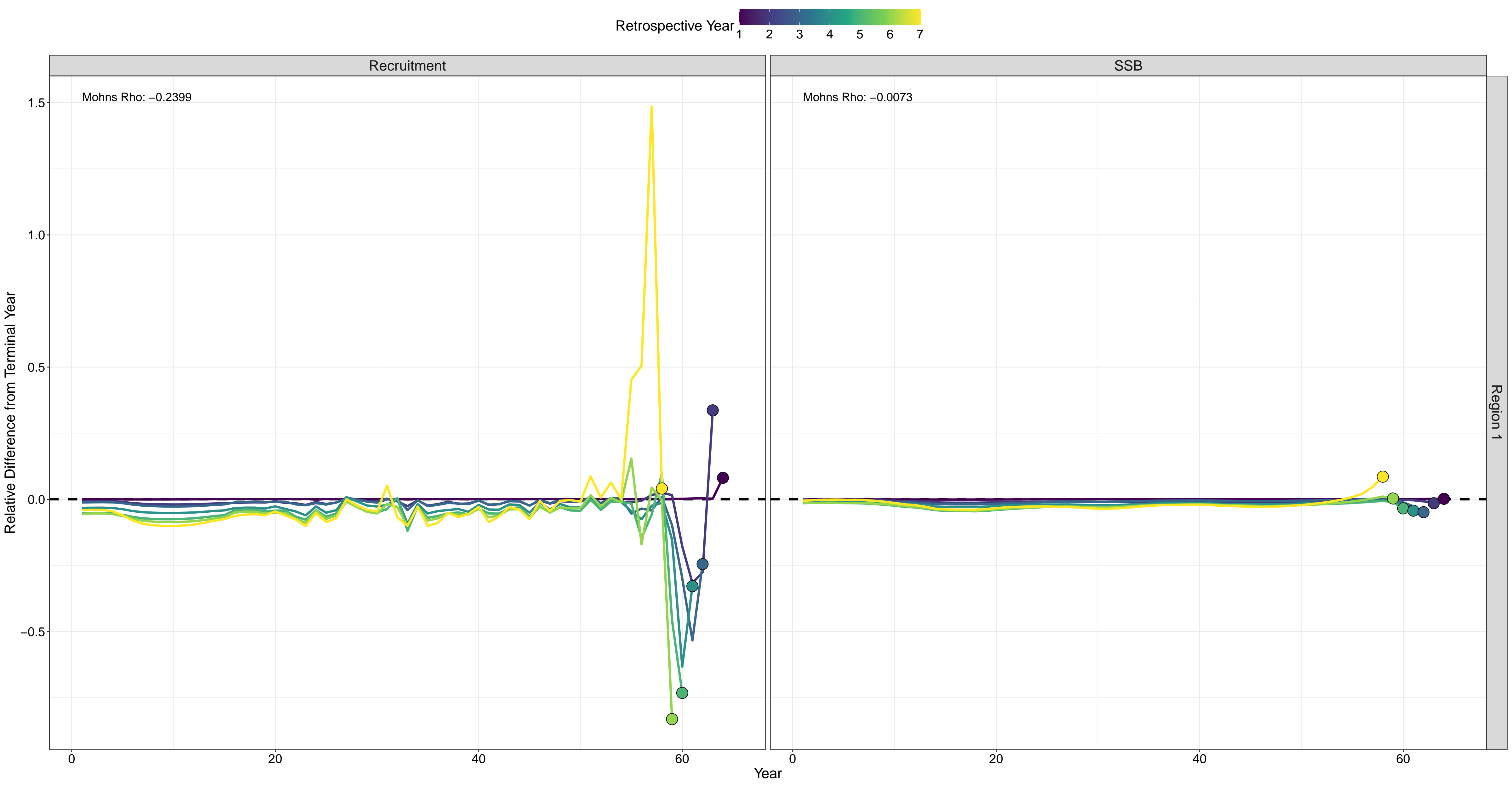


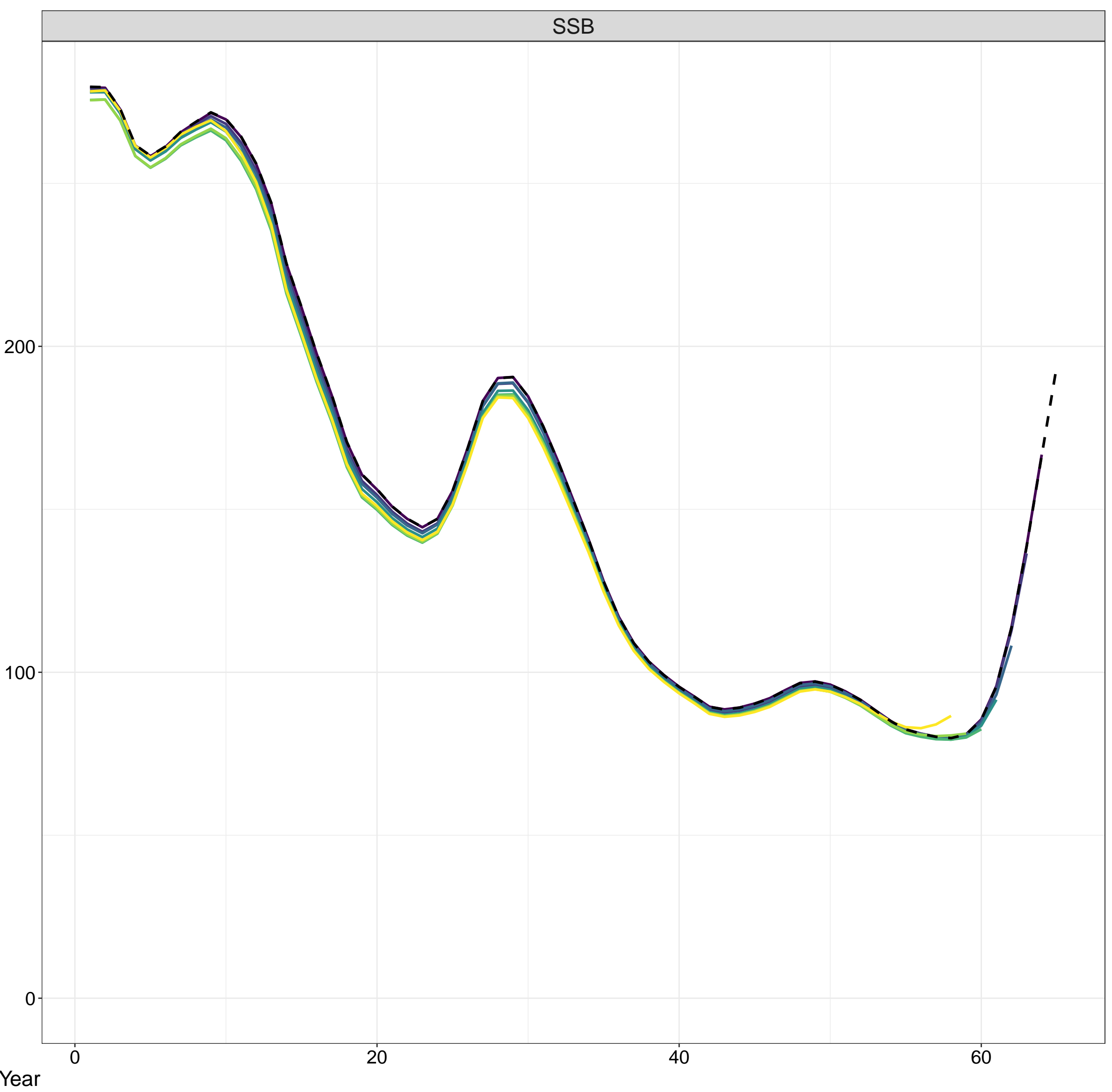
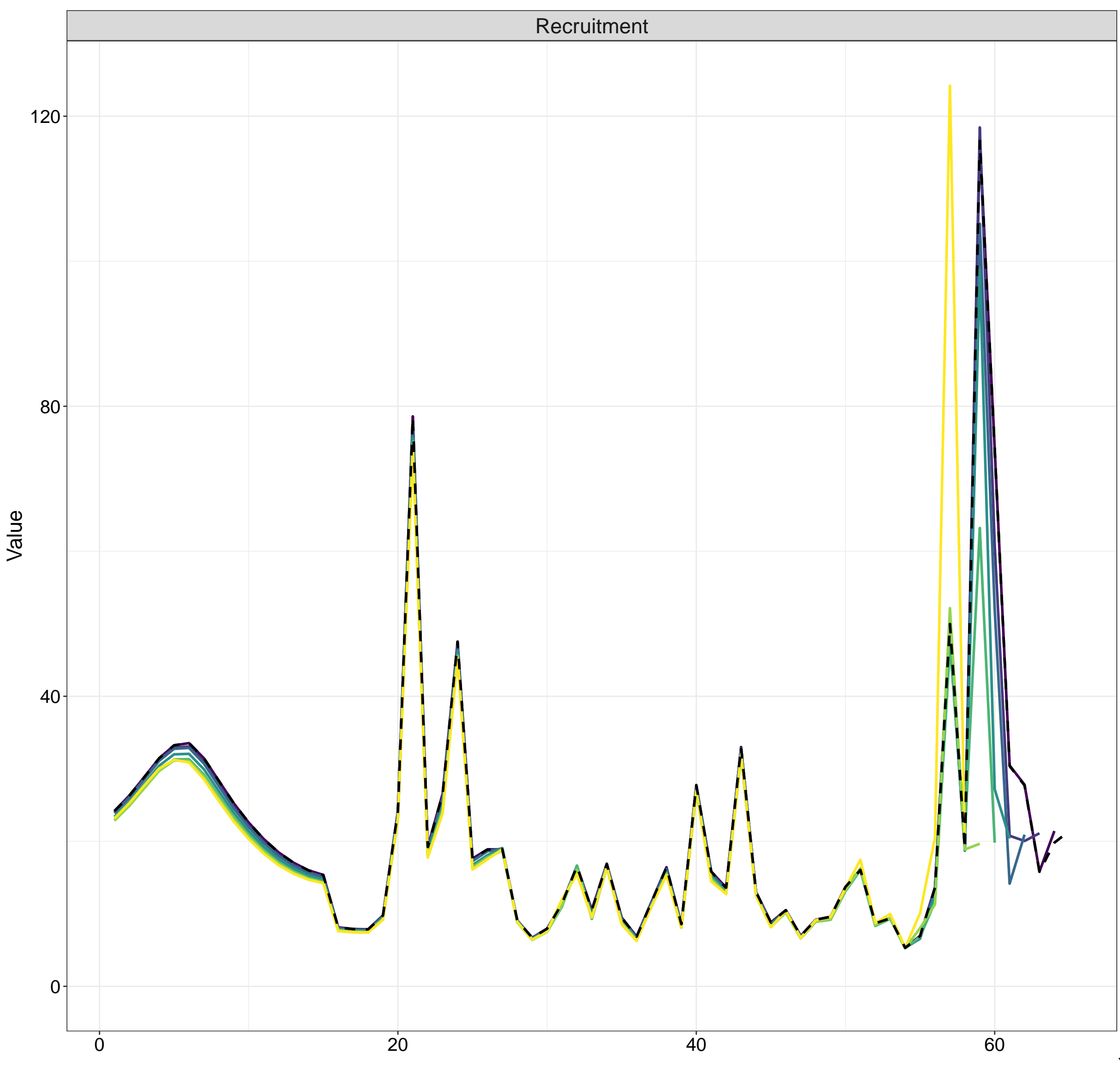


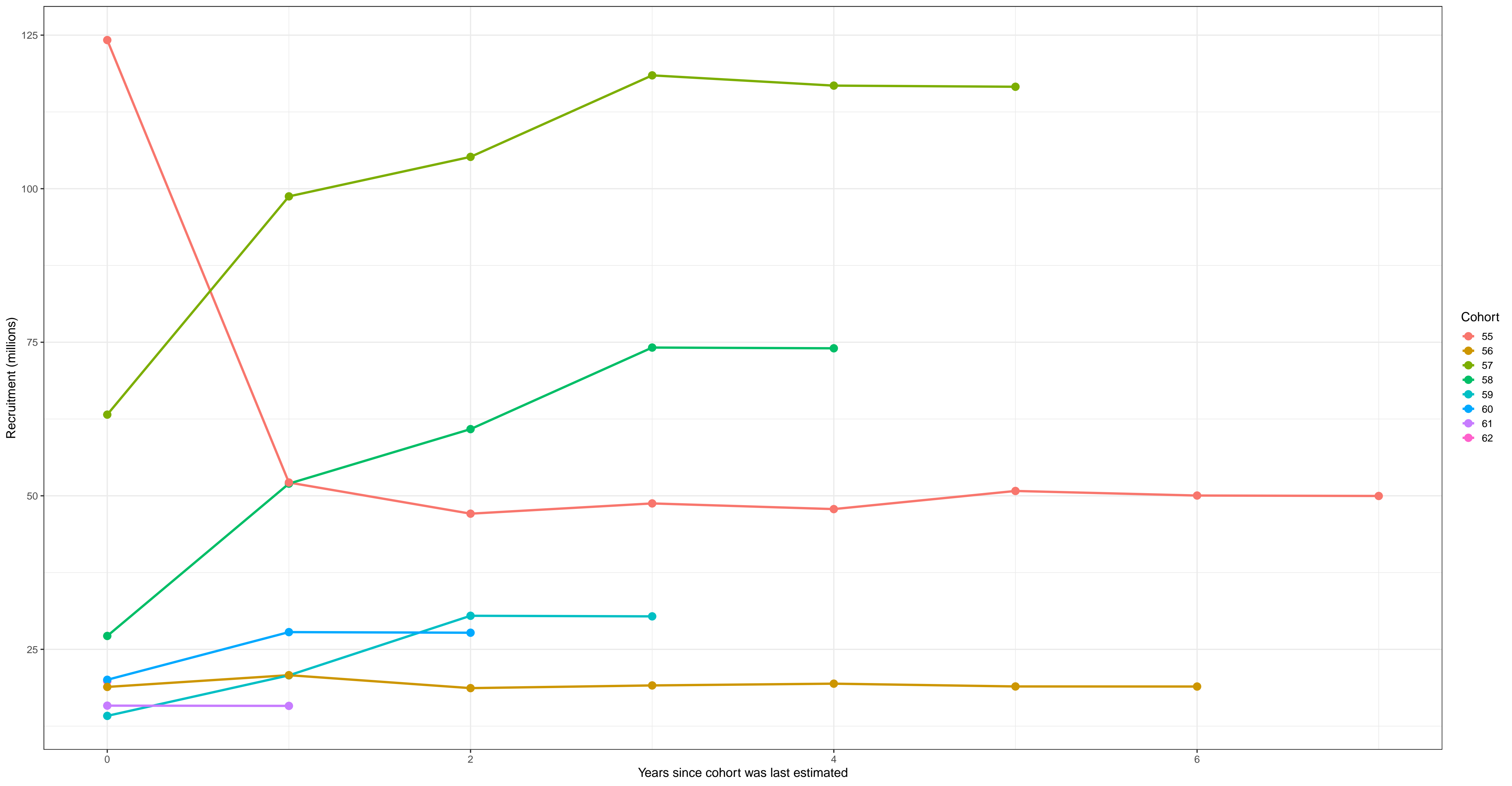
abs(Resid)    • 1    • 2    • 3    Sign    • Neg    • Pos    Outlier    • No    • Yes





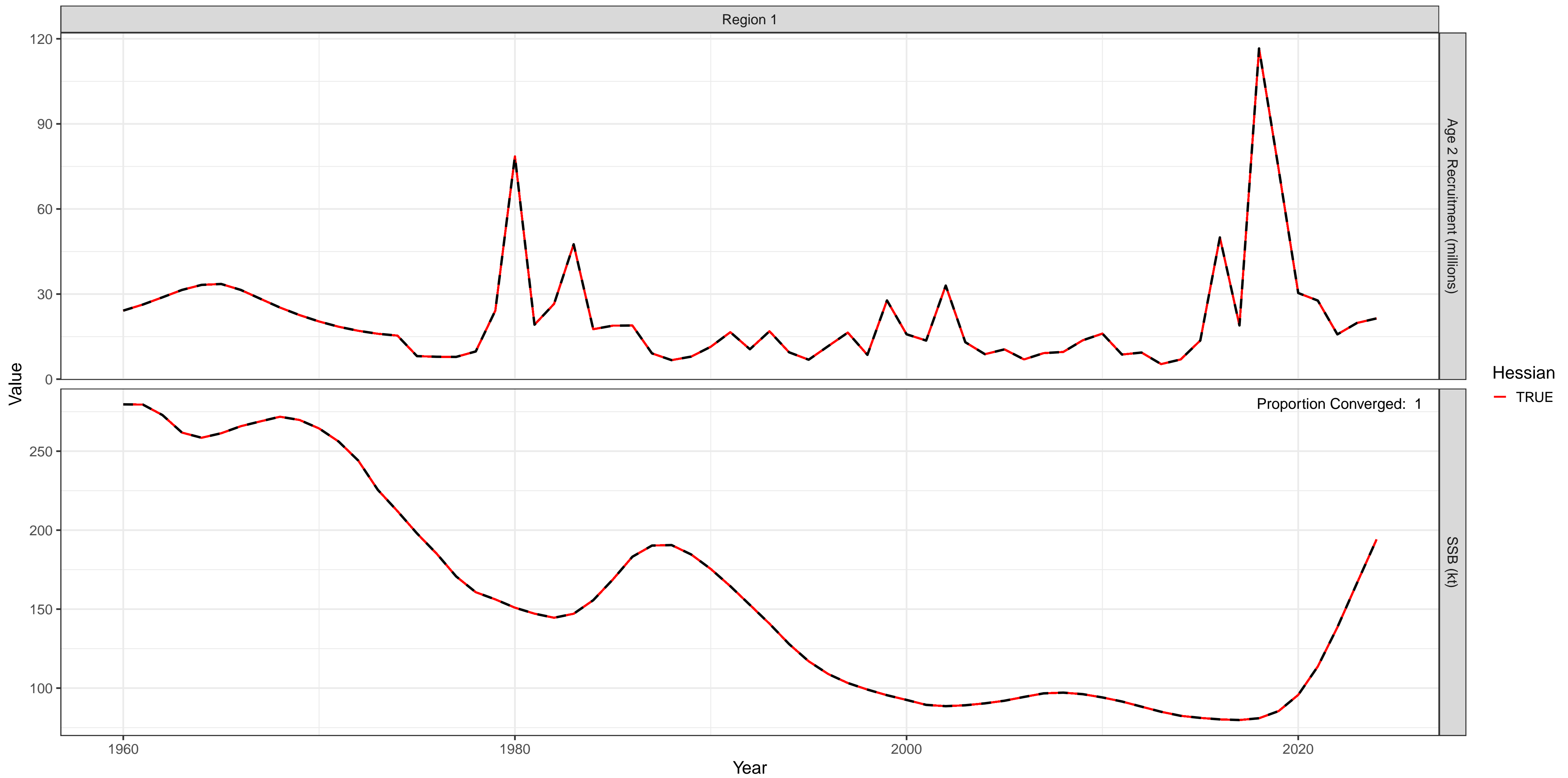




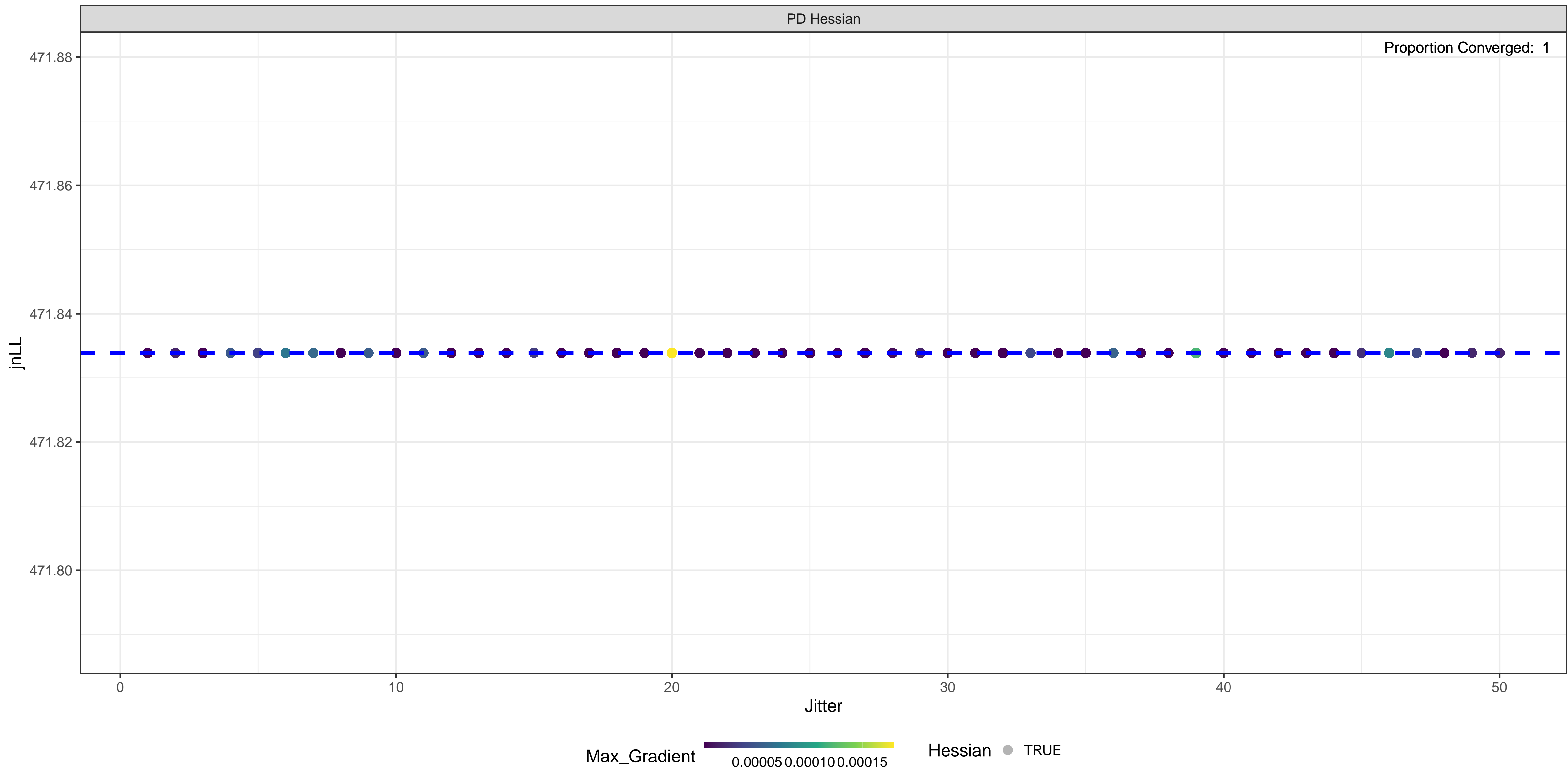




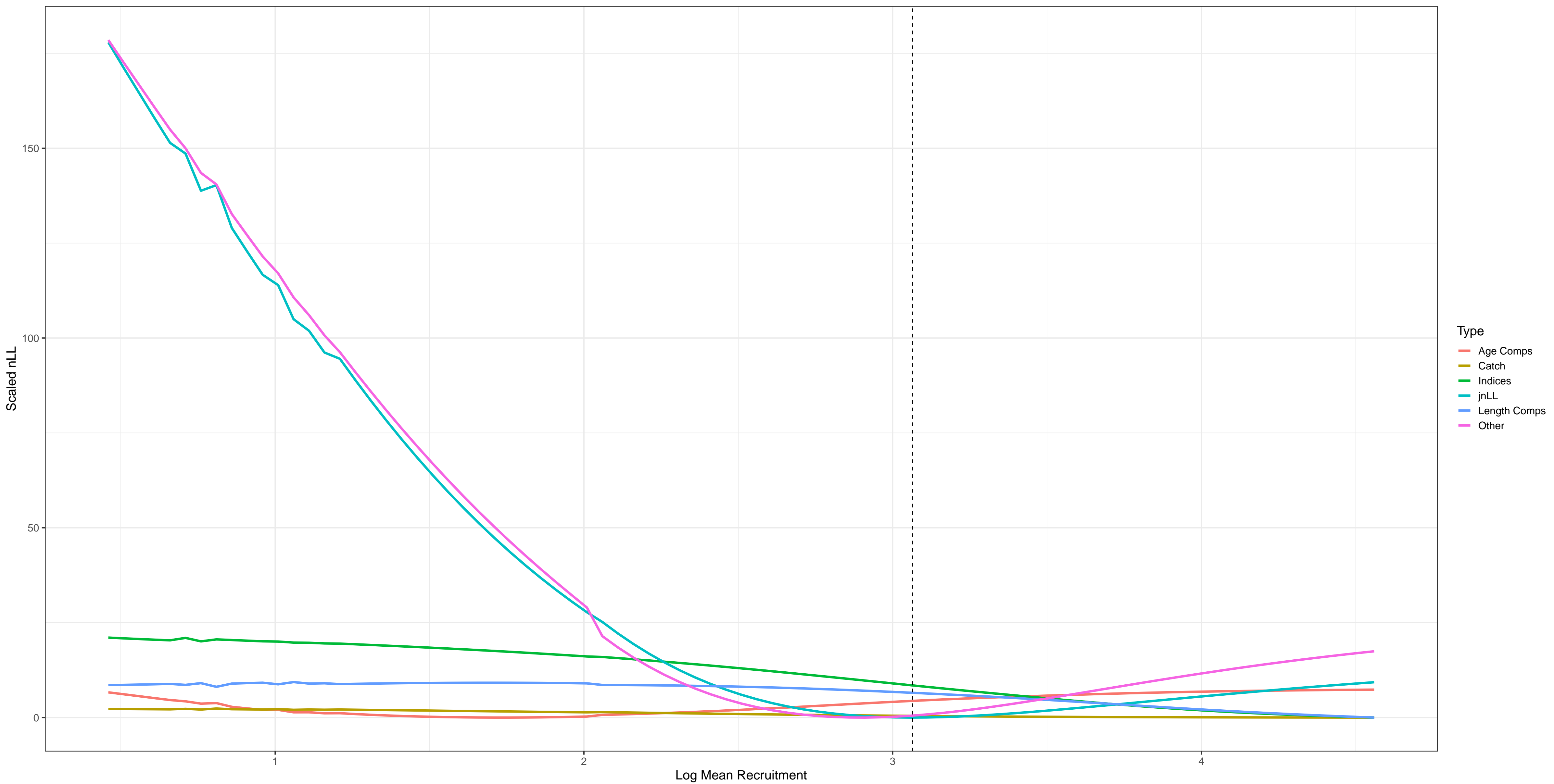
# Jitter SSB and Recruitment



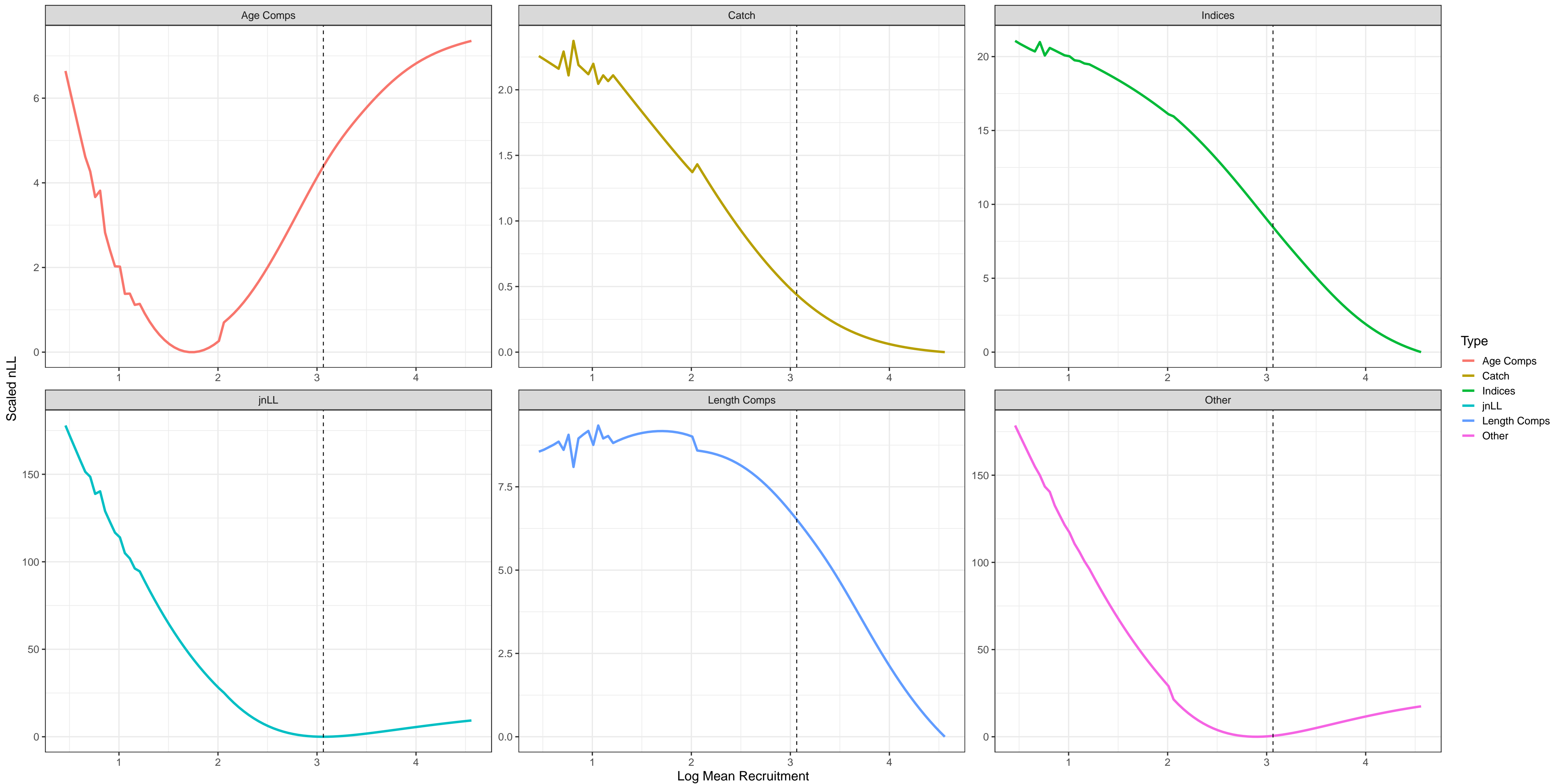
Jitter nLL and Convergence



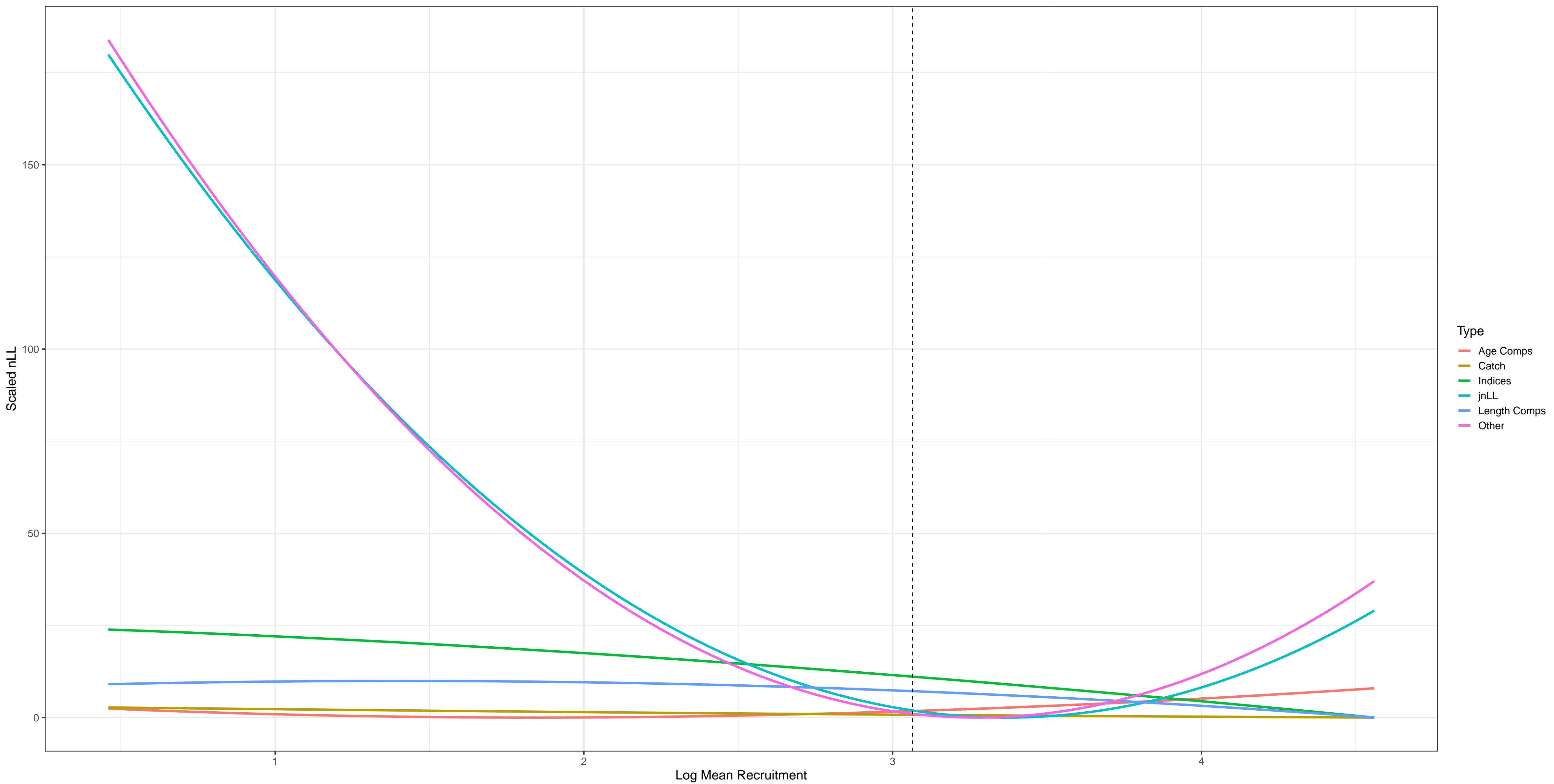
Profile Likelihood R0



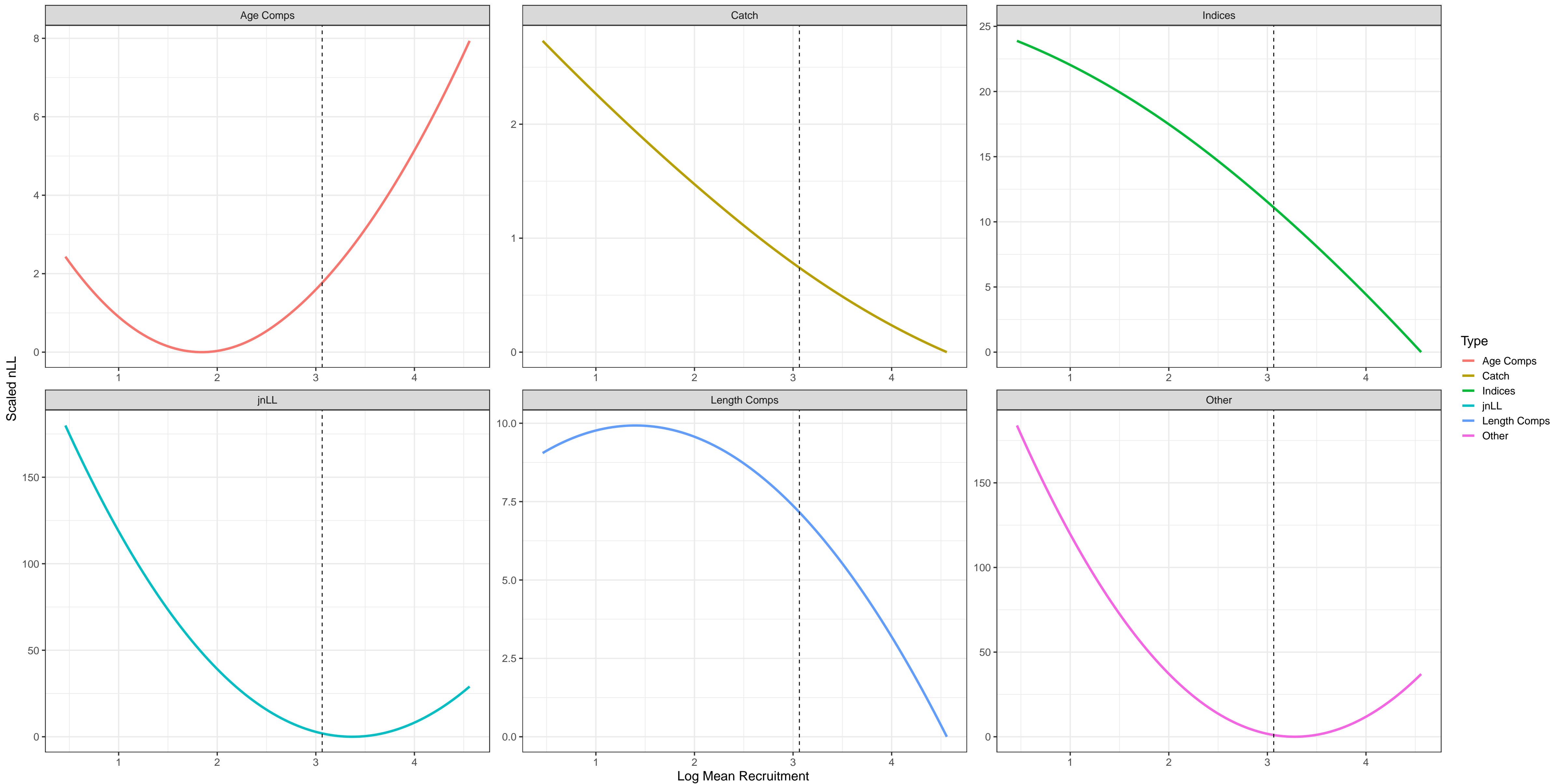
Profile Likelihood R0



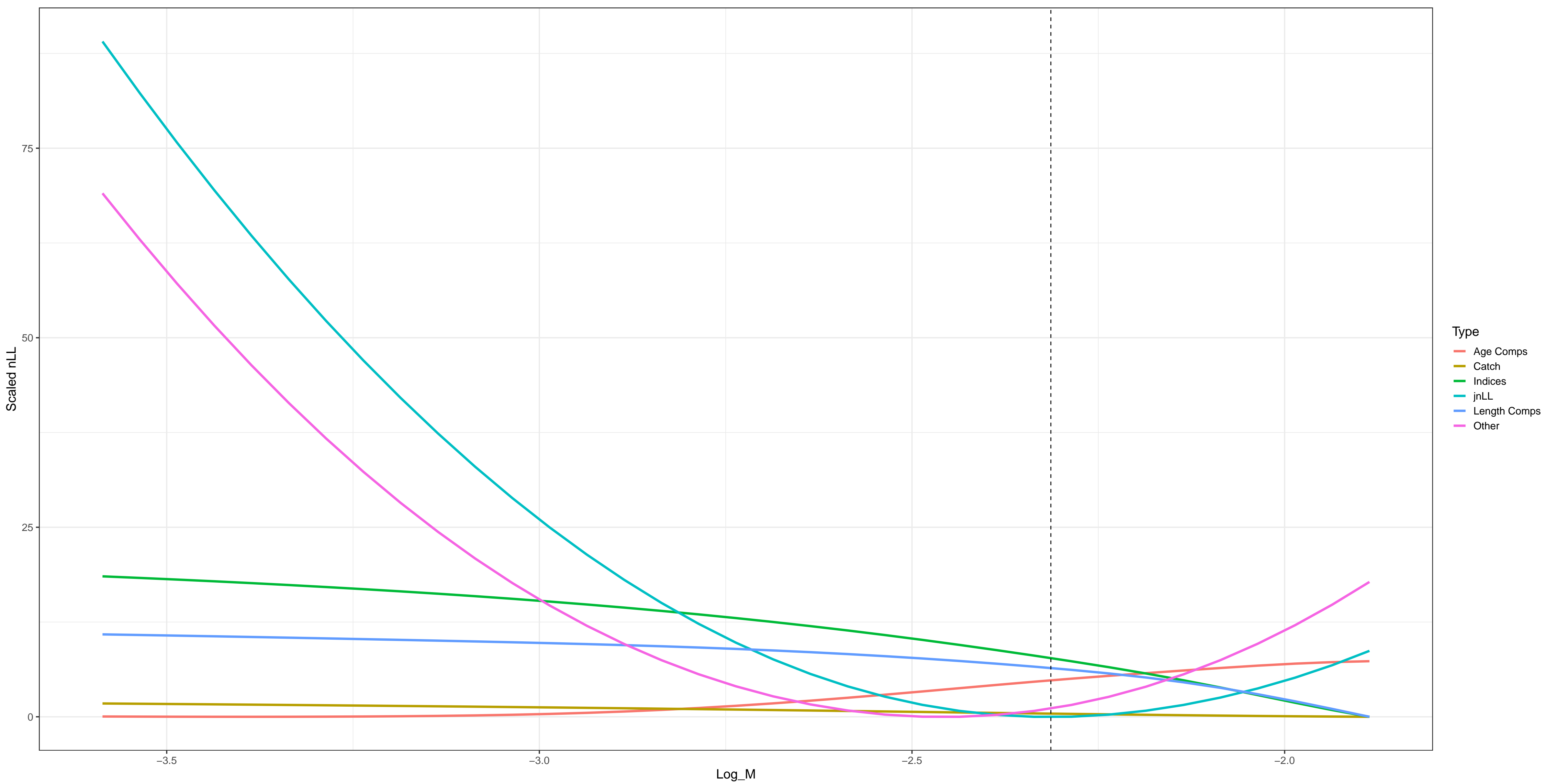
Profile Likelihood R0



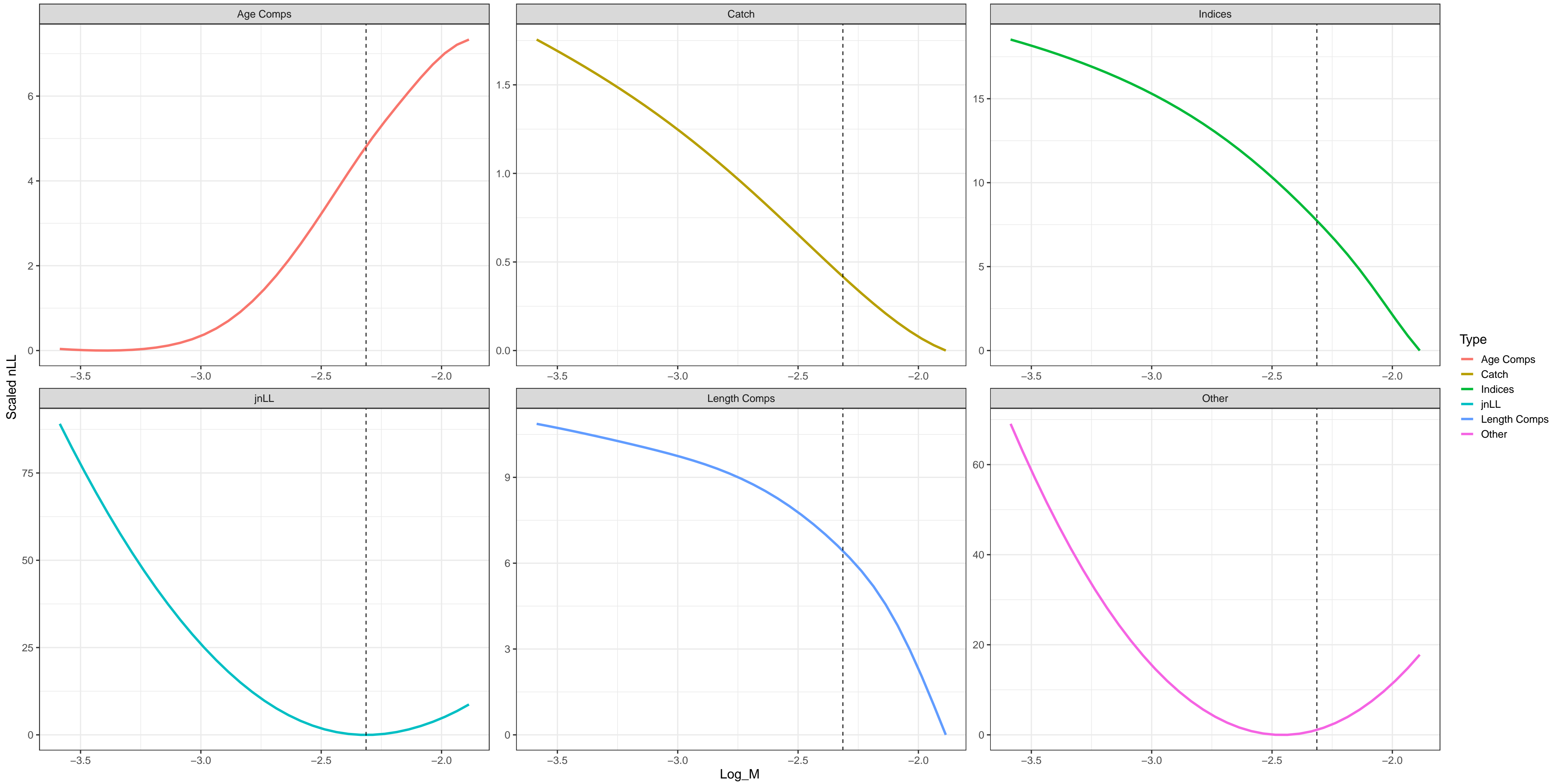
Profile Likelihood R0



Profile Likelihood M

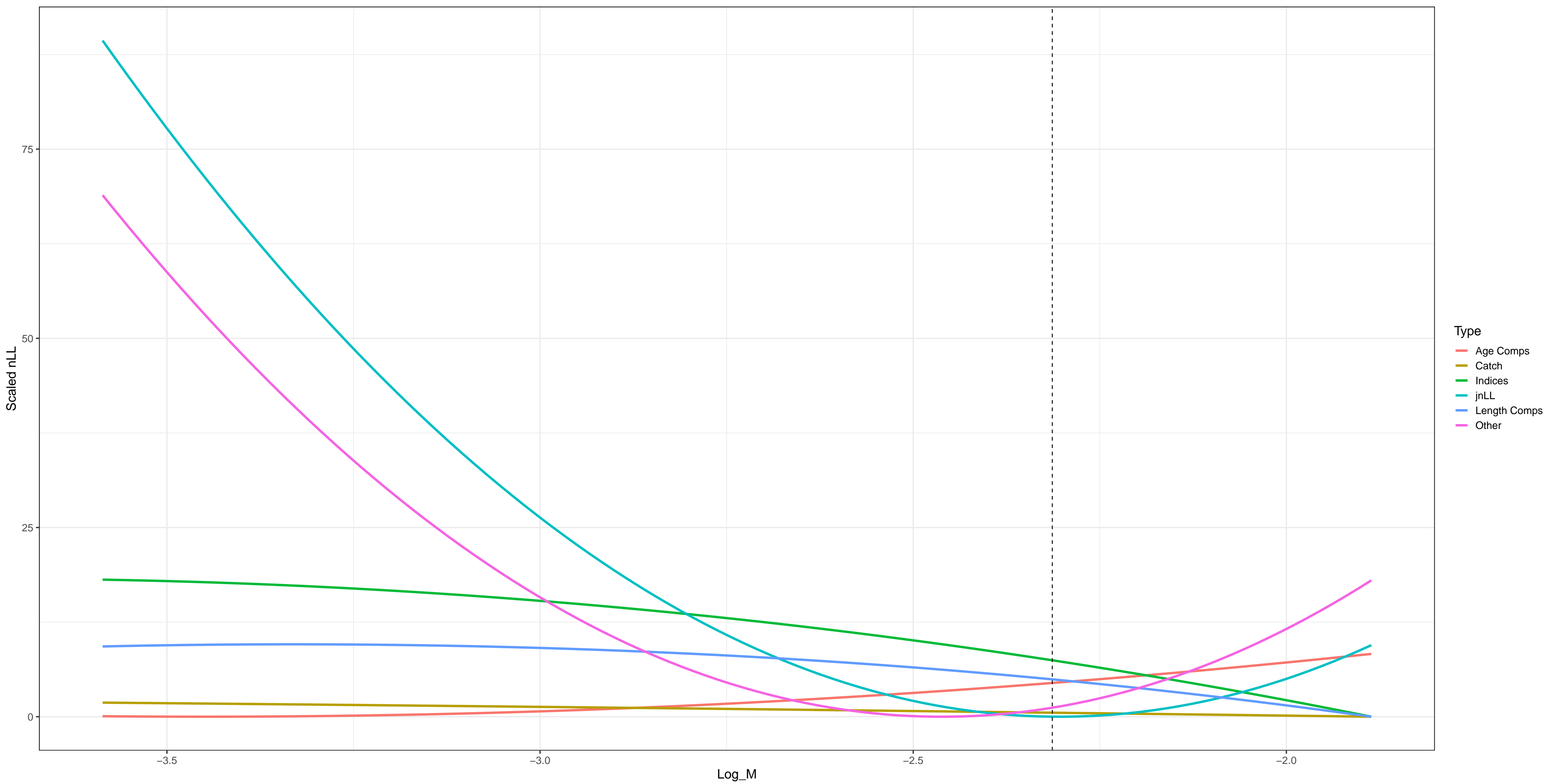


Profile Likelihood M





Profile Likelihood M



Profile Likelihood M

