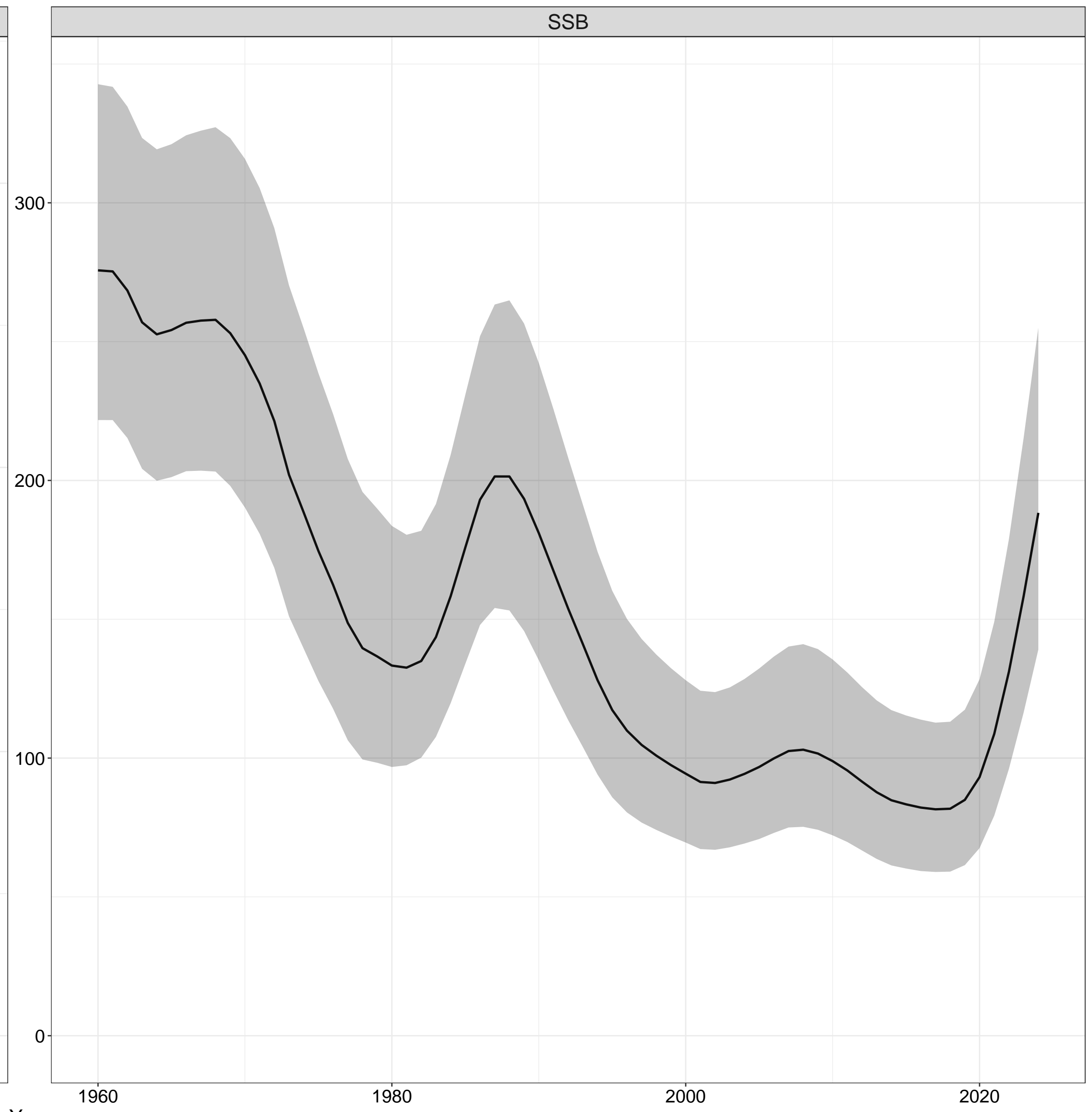
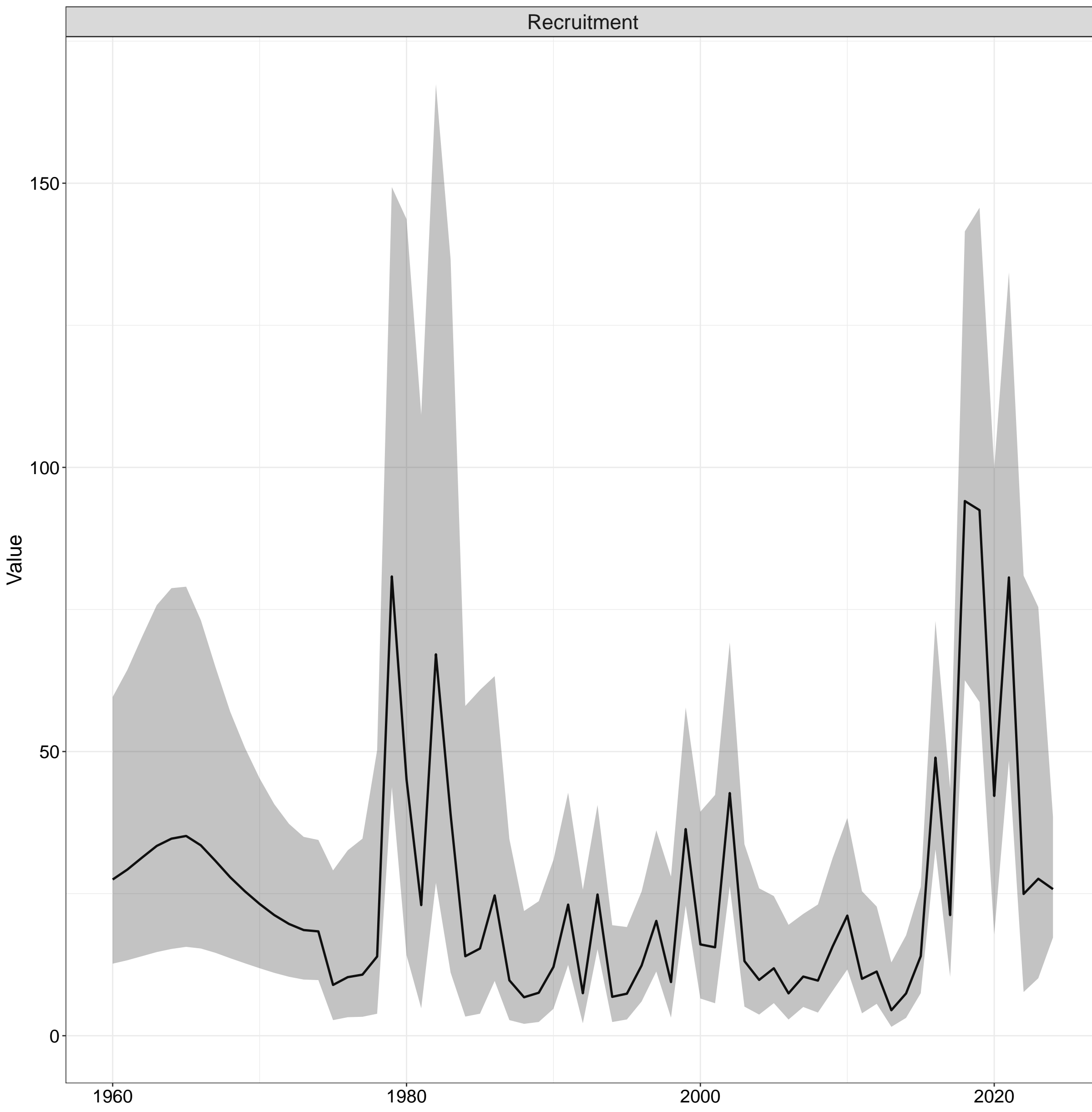


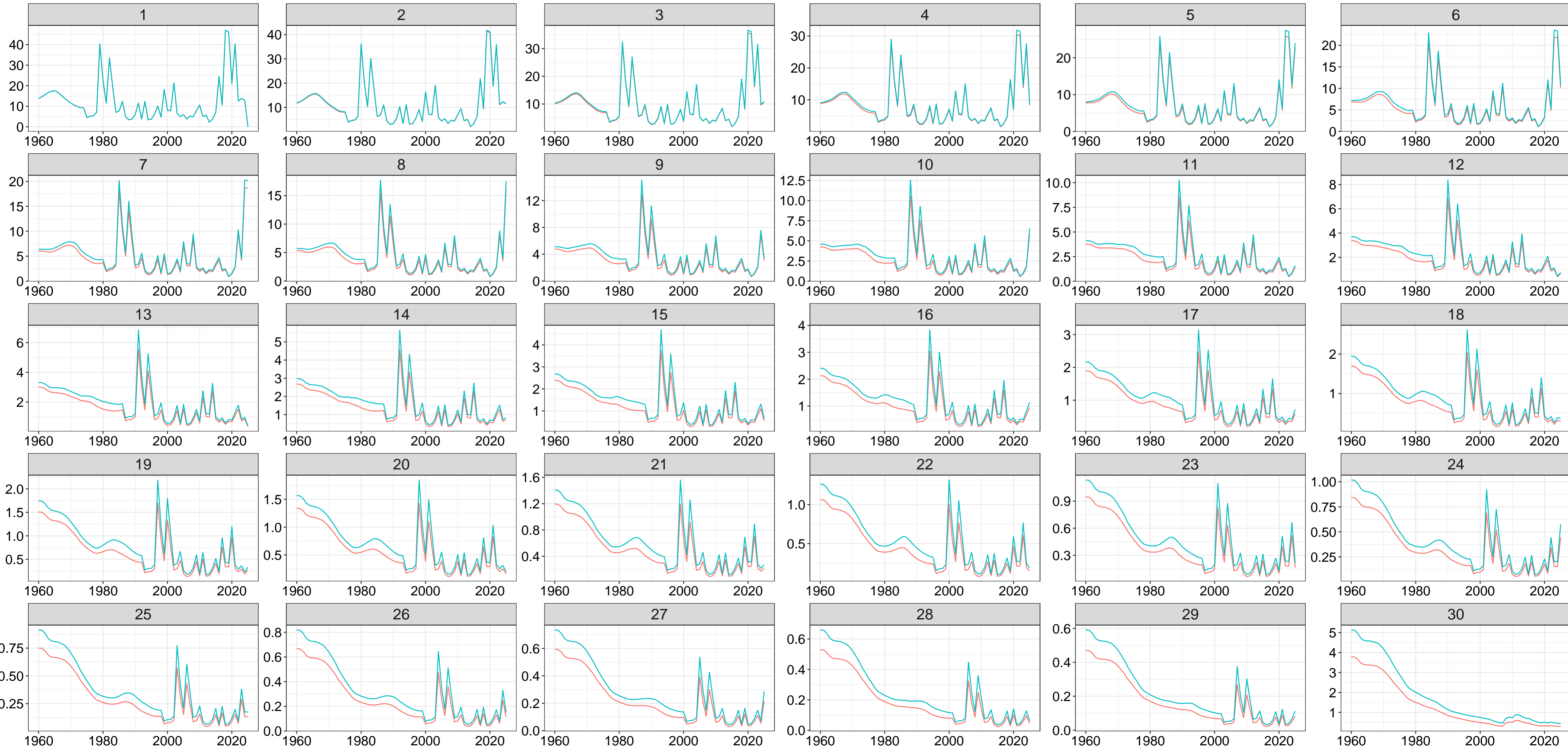
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	1	1	188.32723	0.0405399146987814	49.38646	120.94614	0.08577	1.55712	0.47264



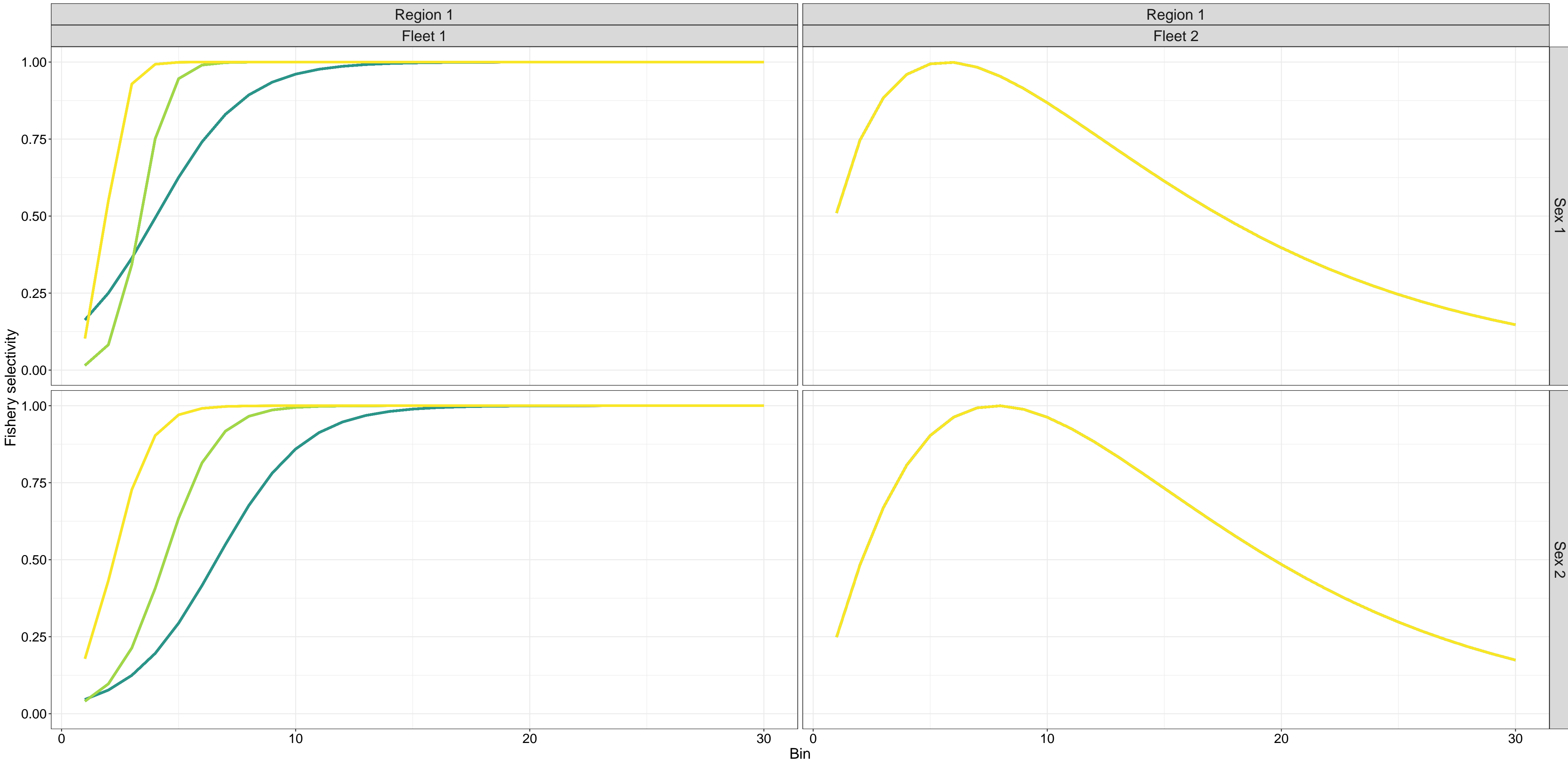
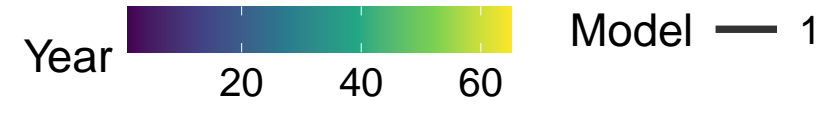
Numbers-at-Age

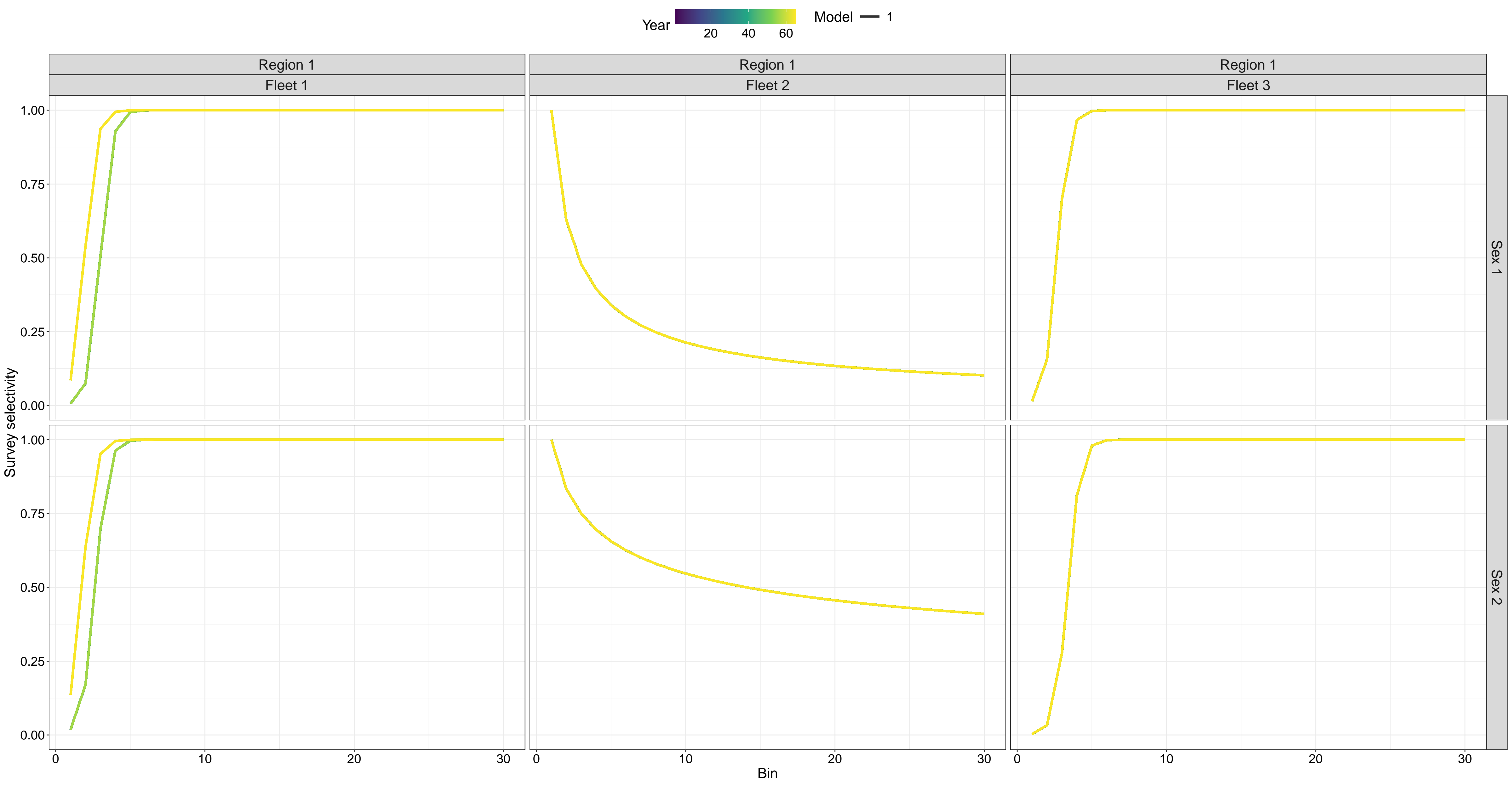
Sex — Female — Male

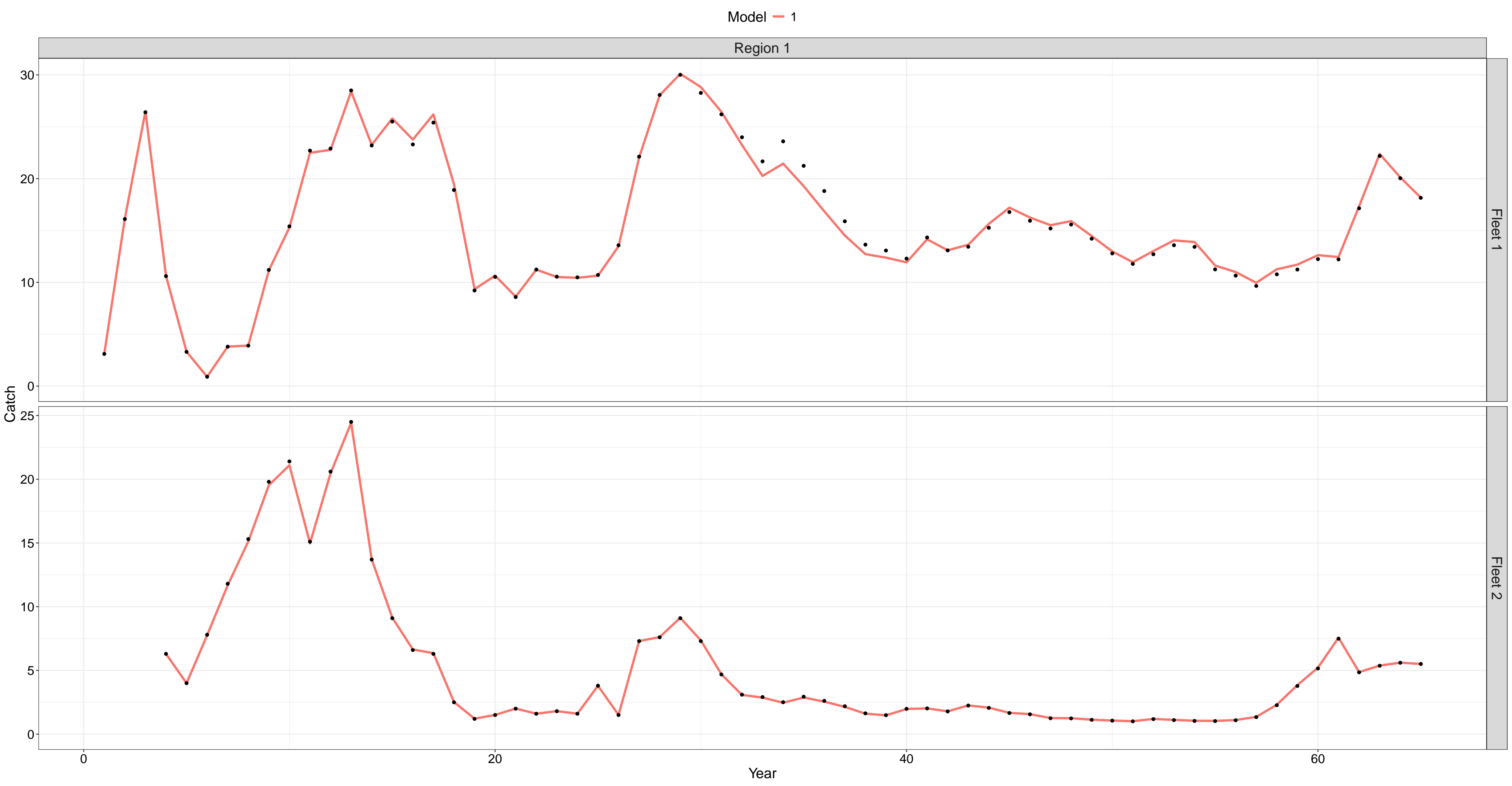
Numbers-at-age (millions)



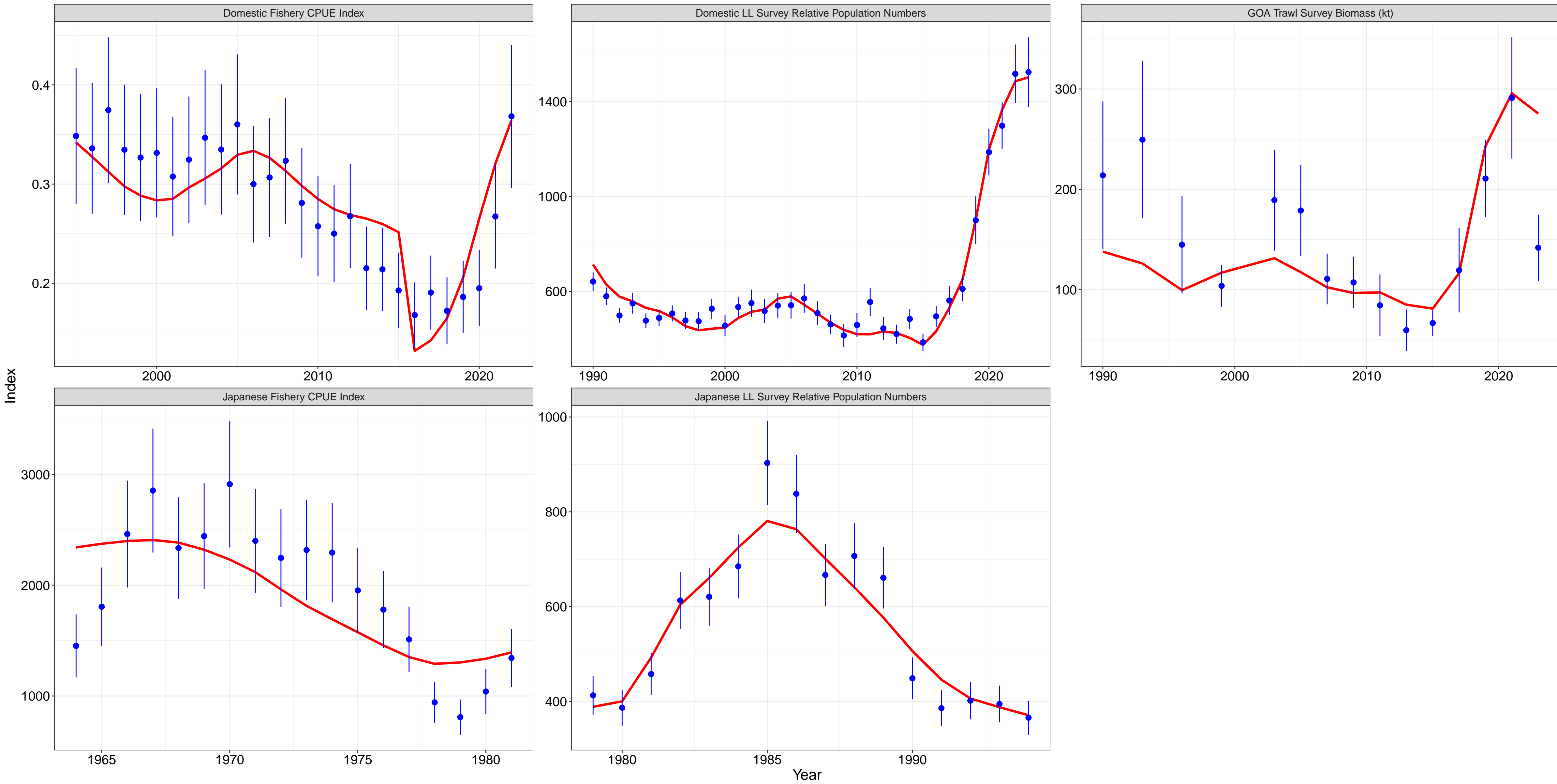
Year



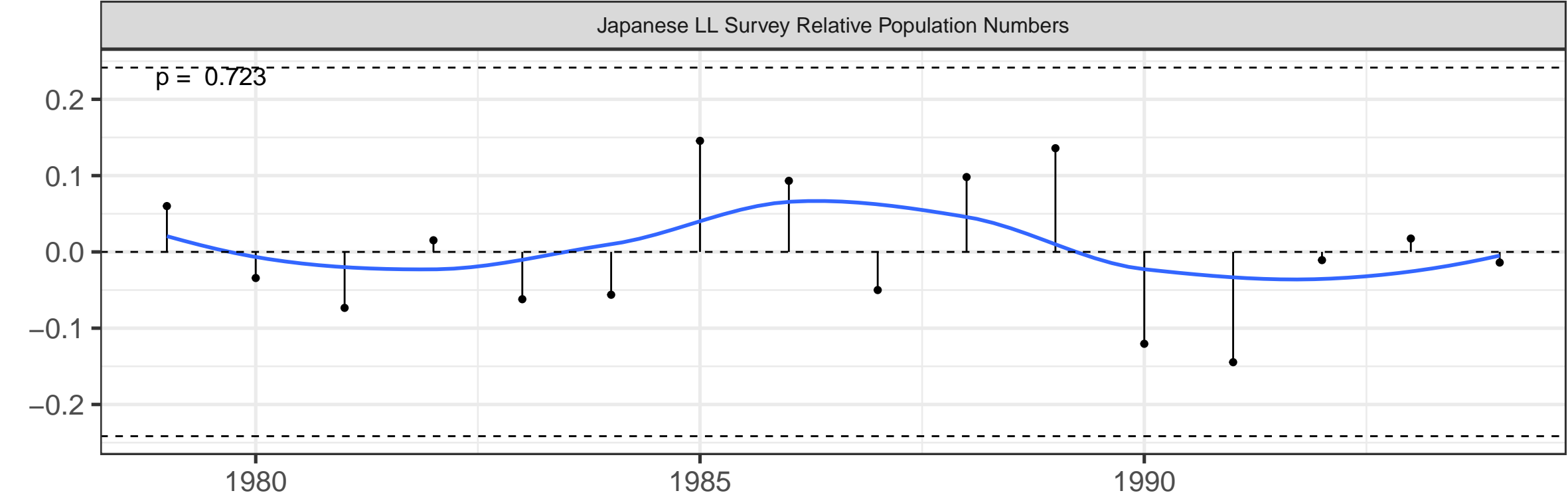
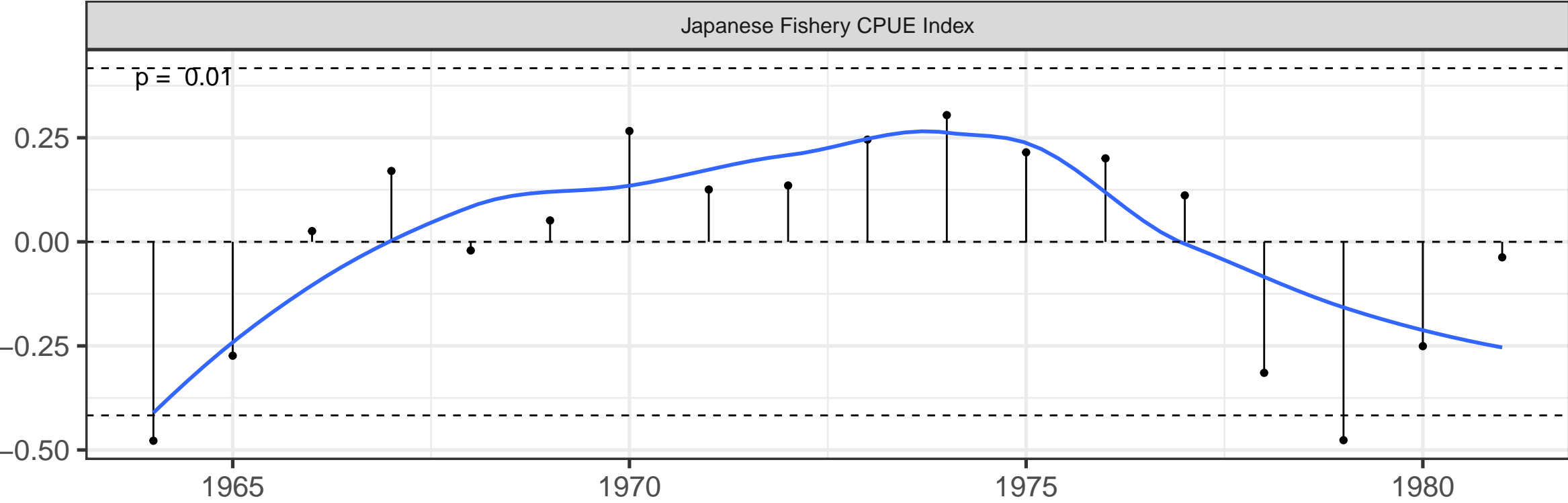
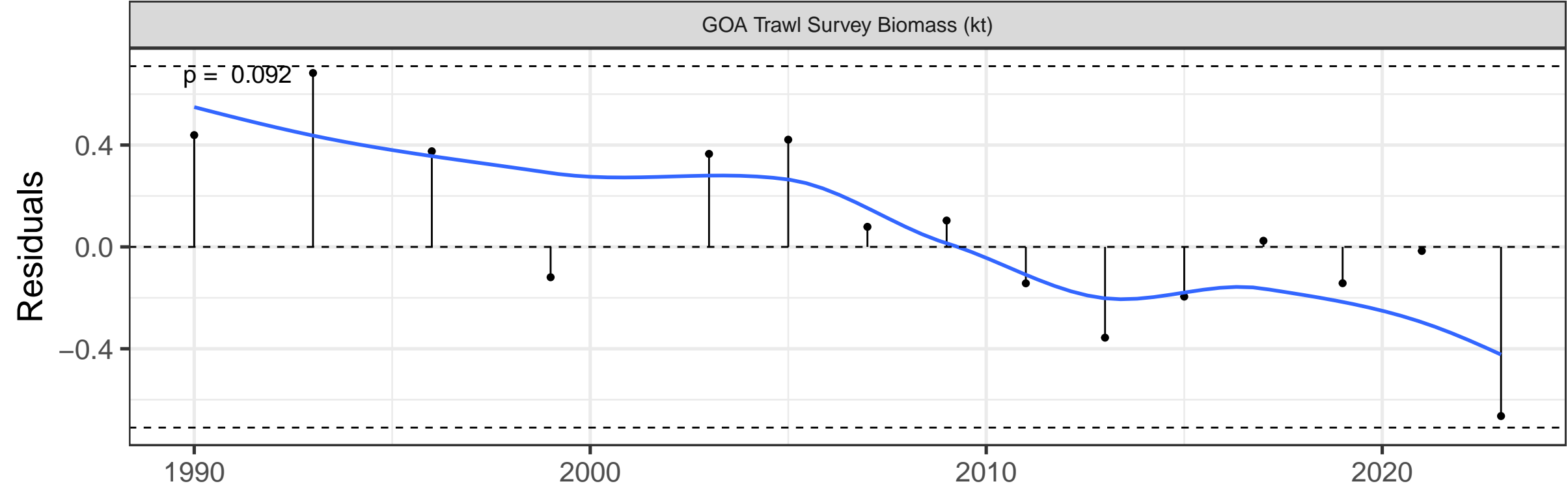
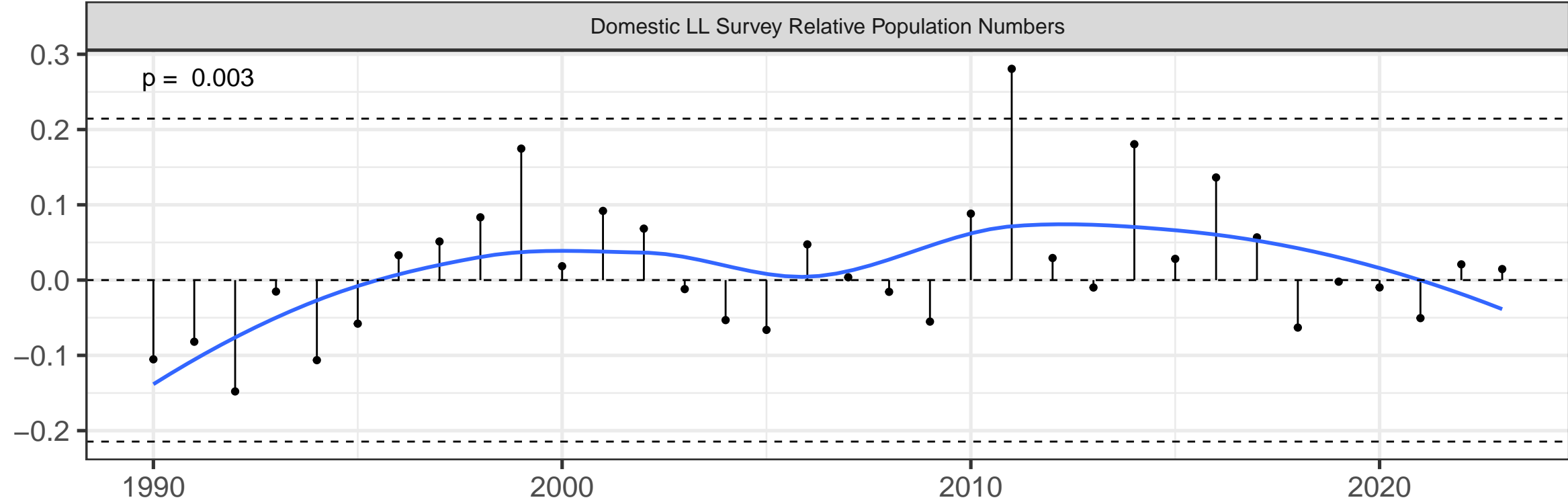
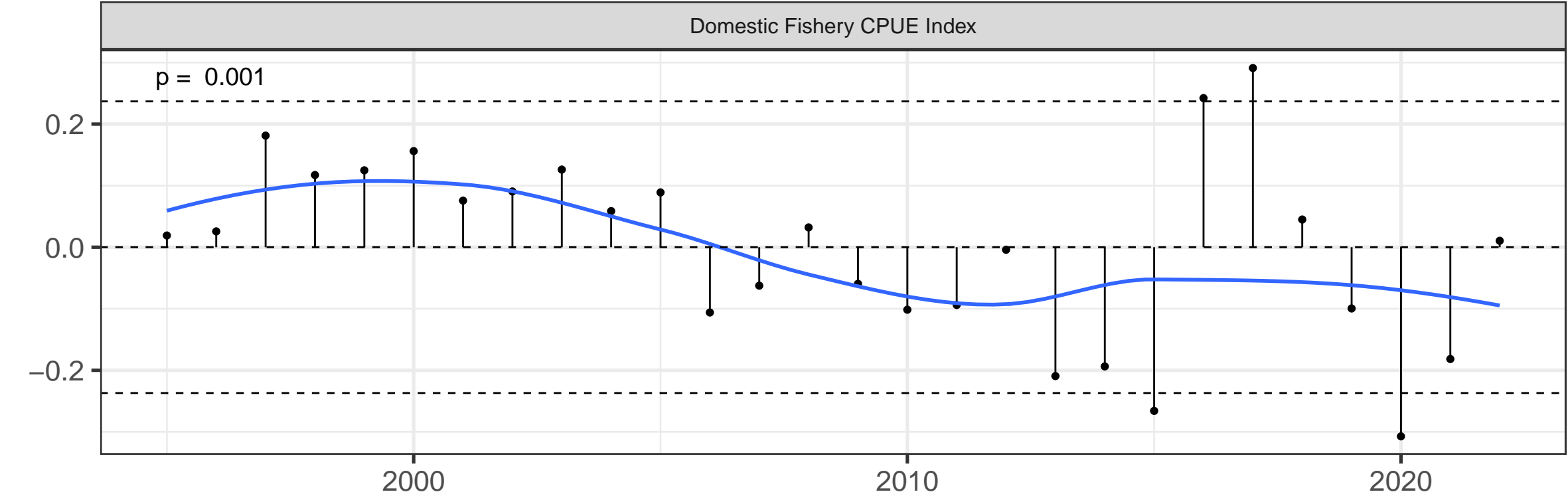




Index Fits

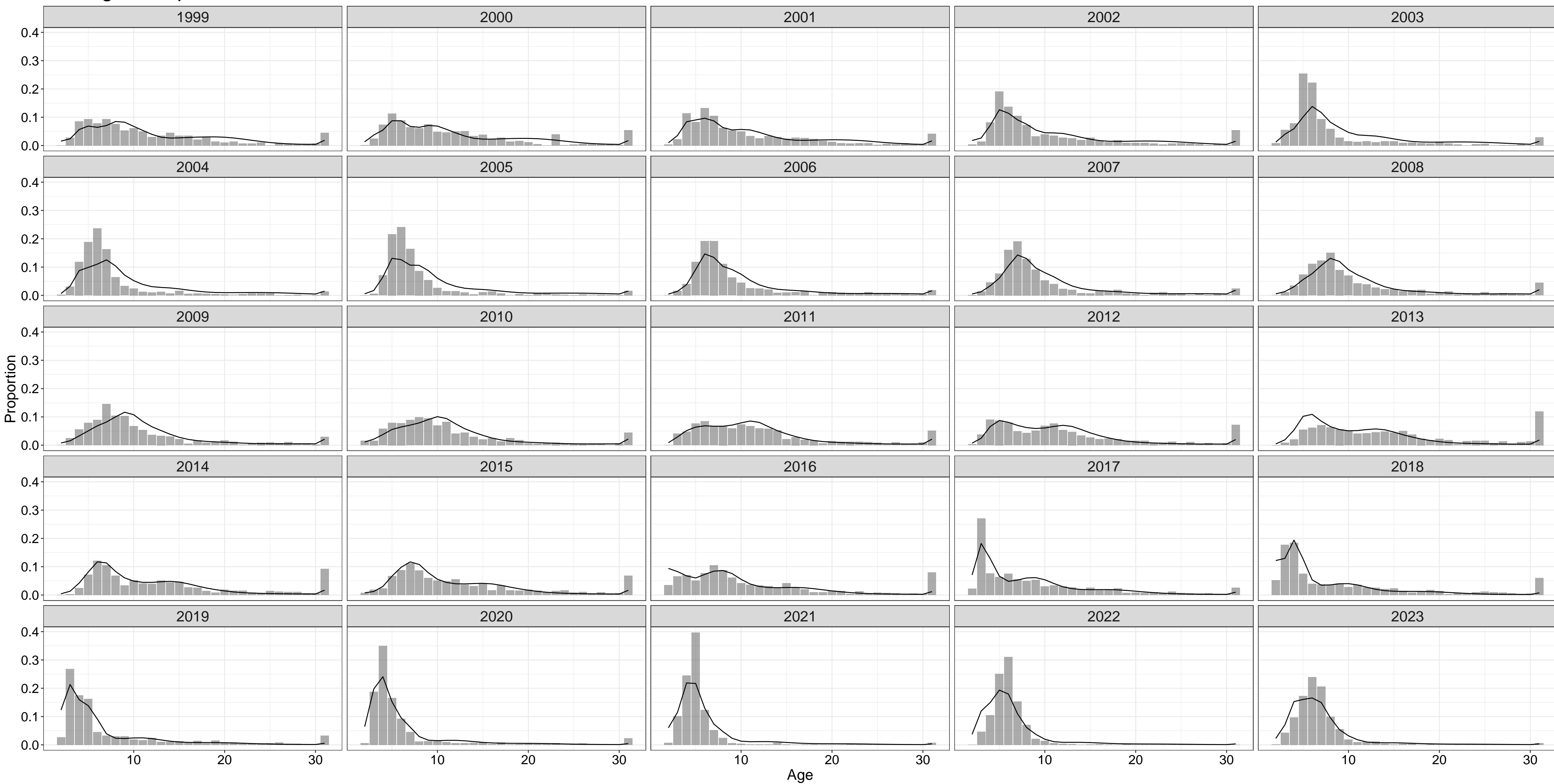


Index Residuals Runs Test

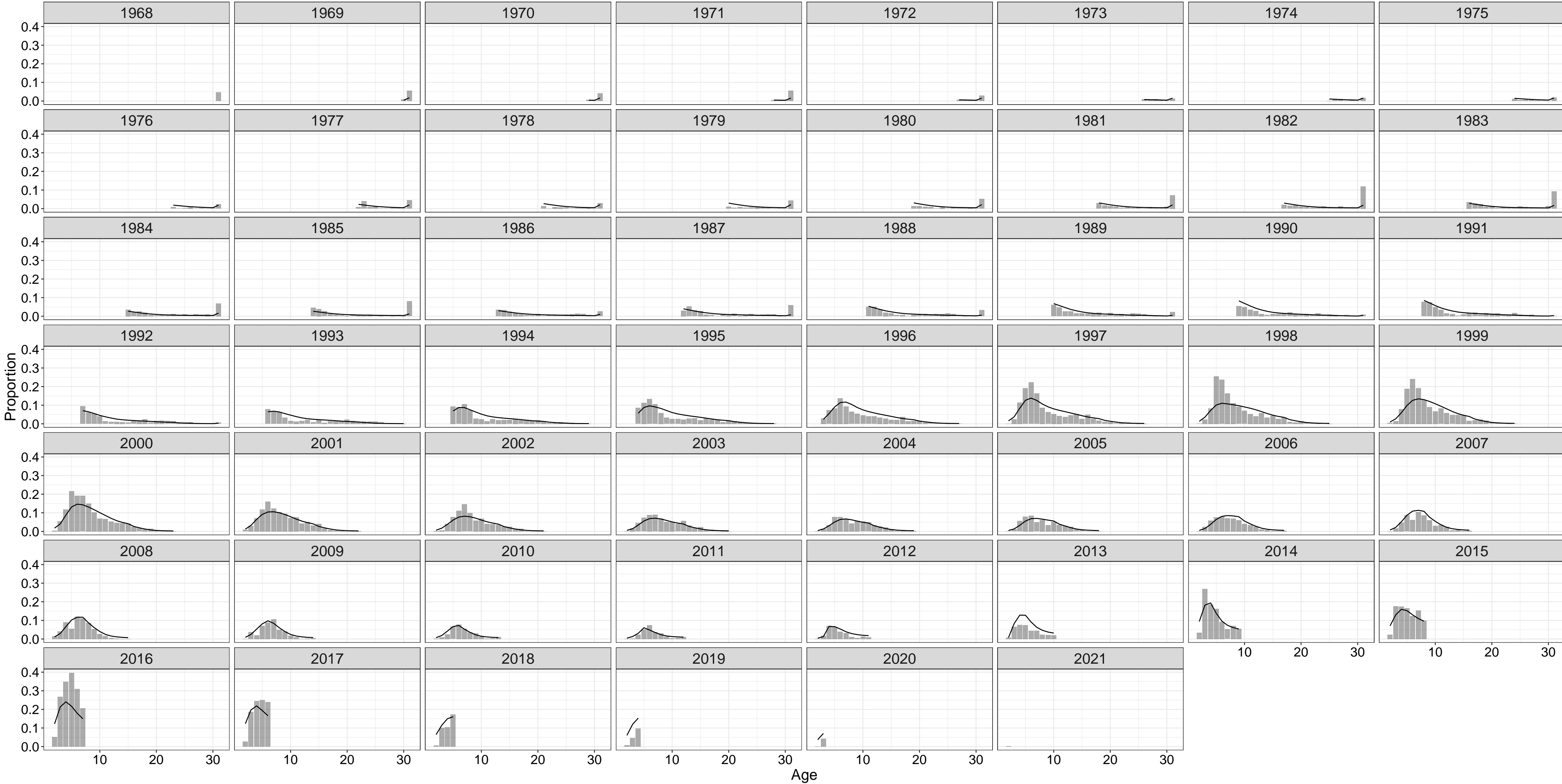


Year

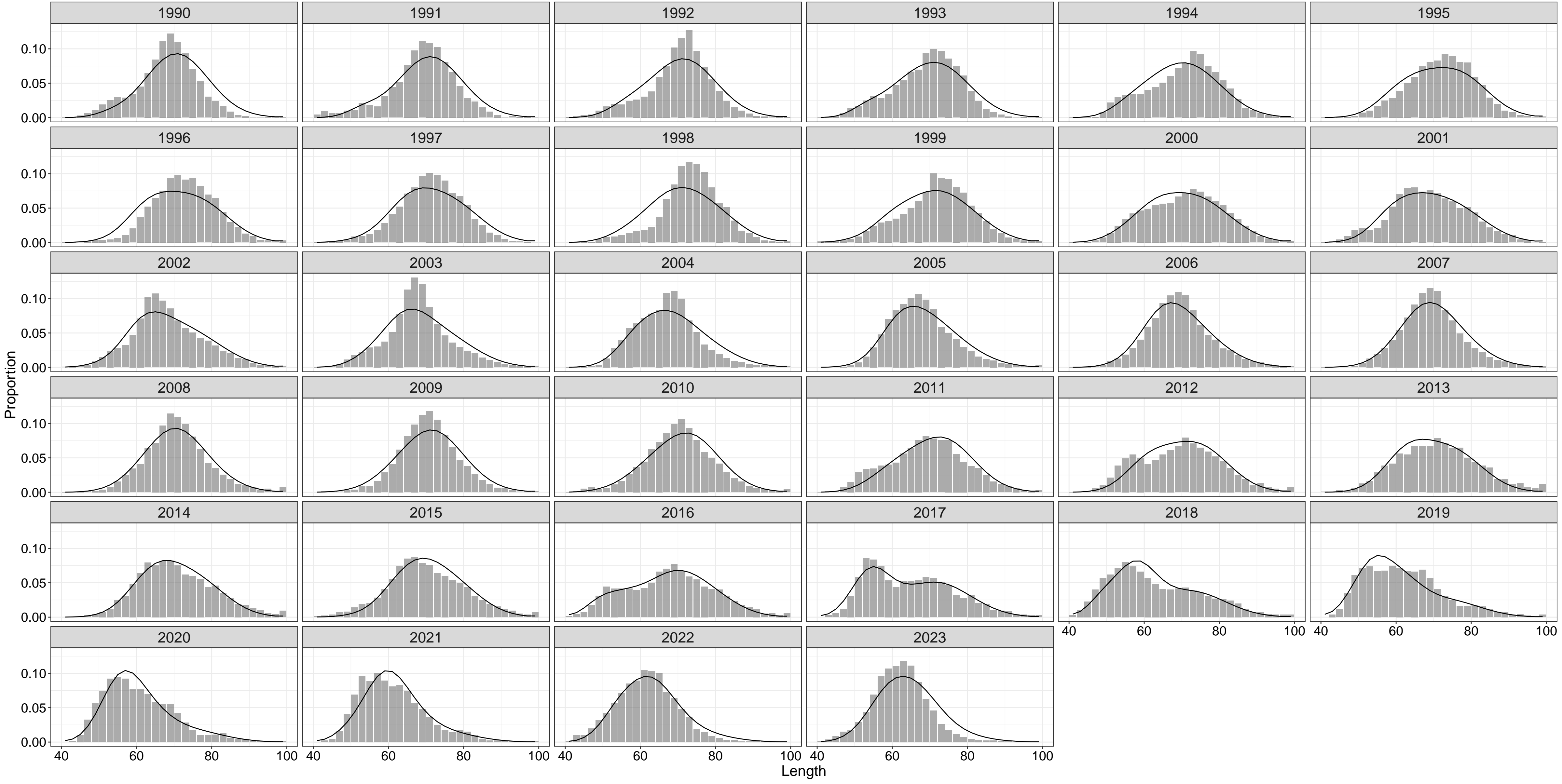
LLF Age Comps Female



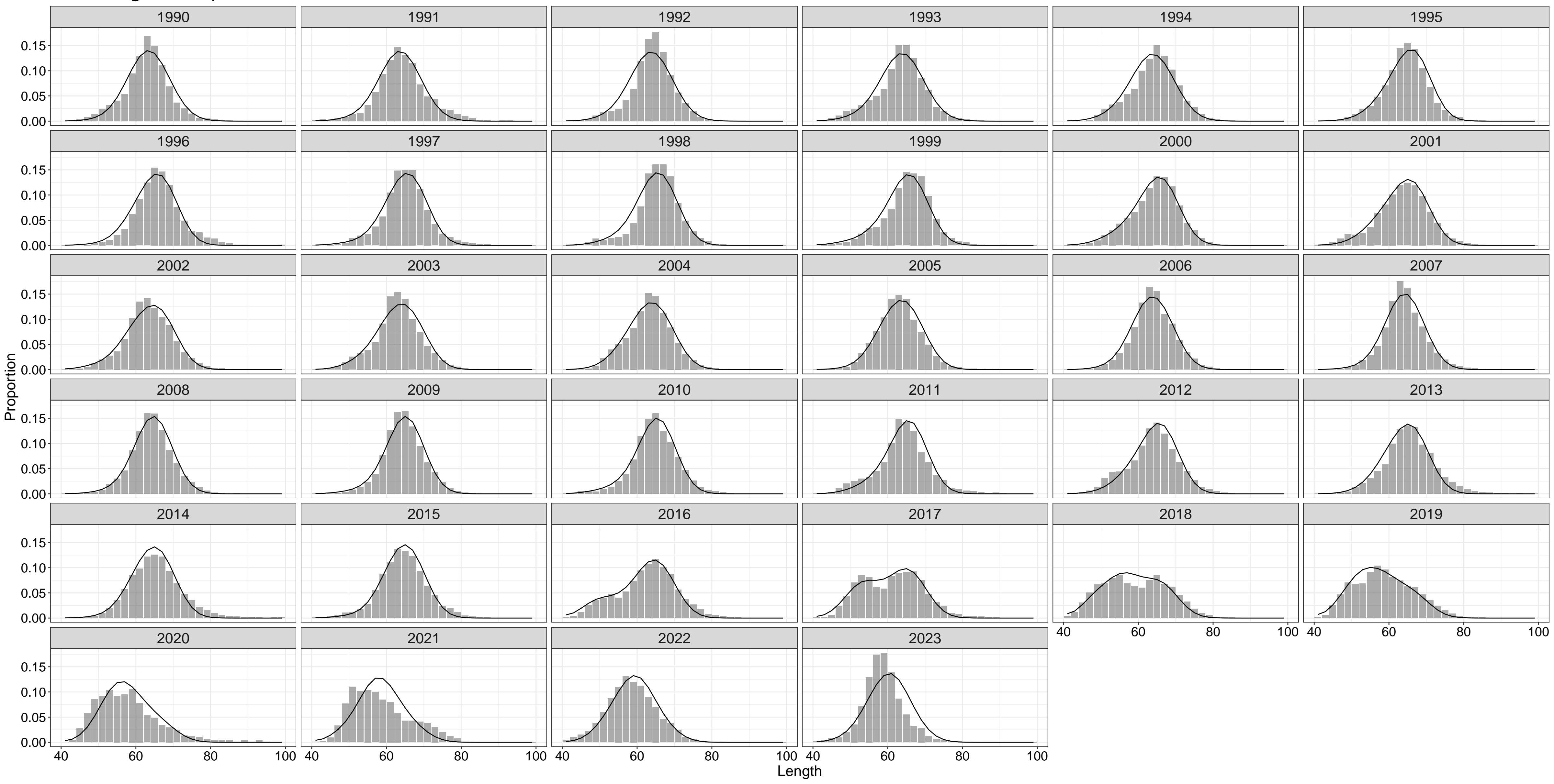
LLF Age Comps Cohort Fits Female



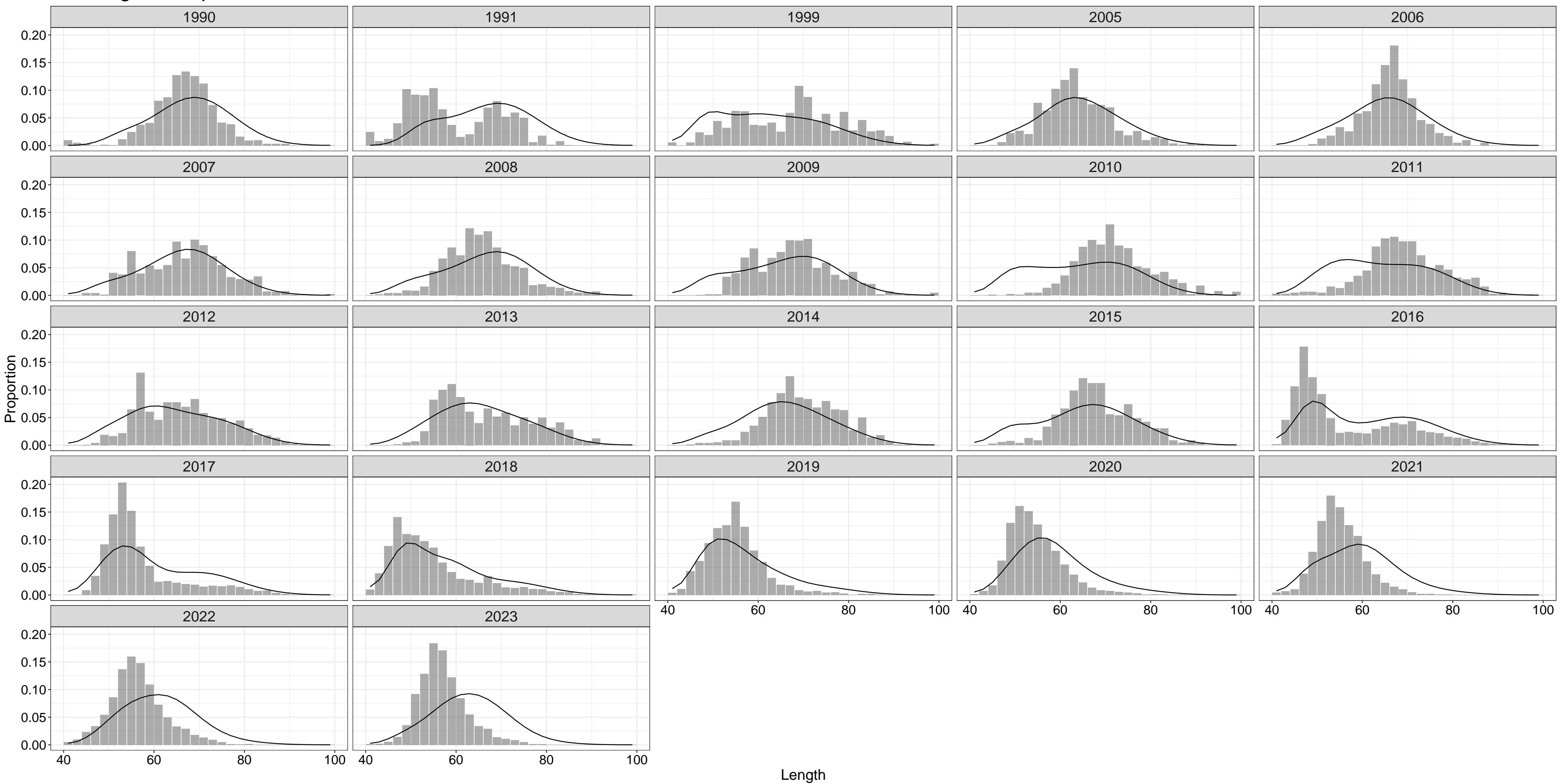
LLF Length Comps Female



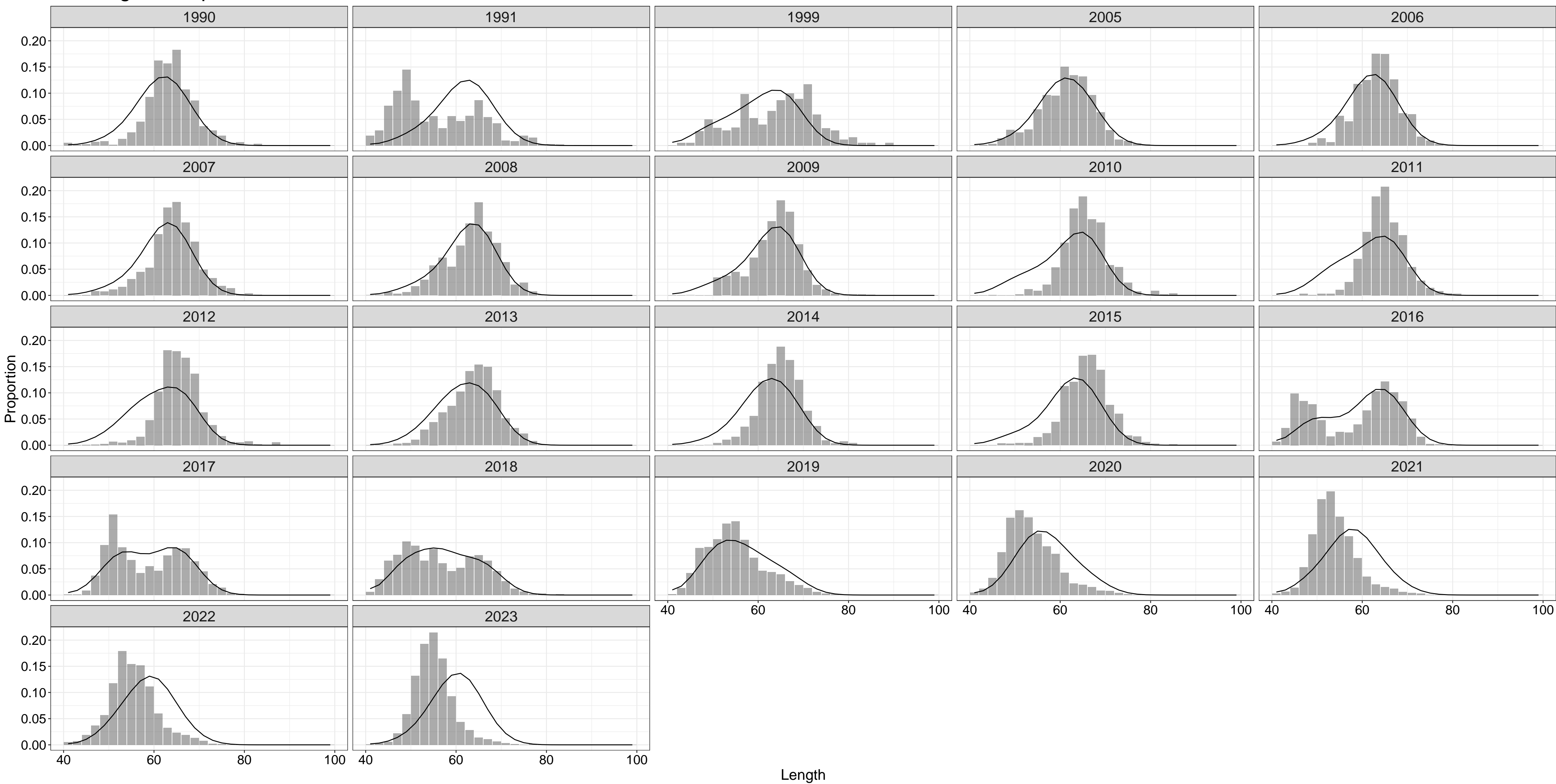
LLF Length Comps Male



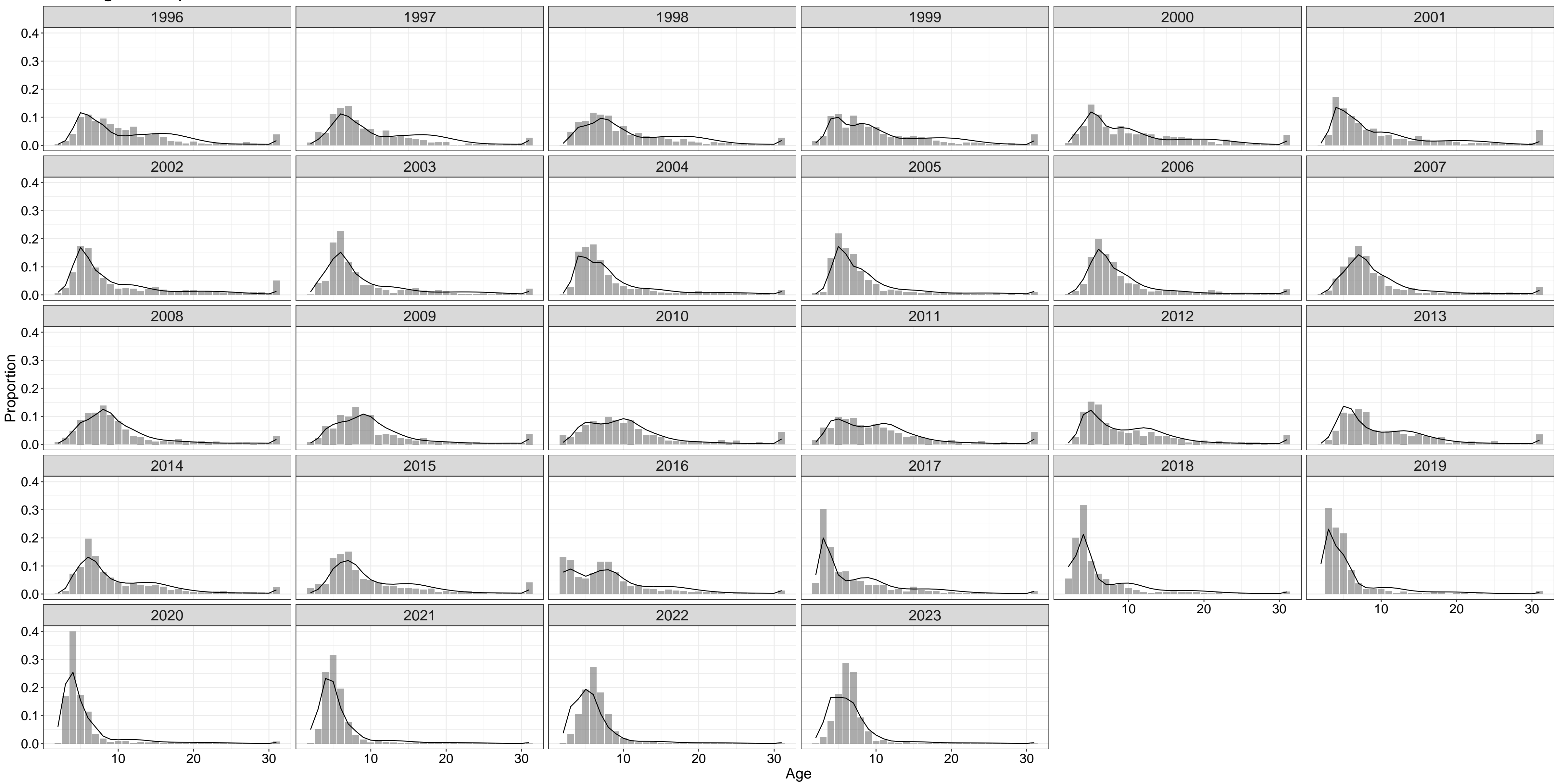
TF Length Comps Female



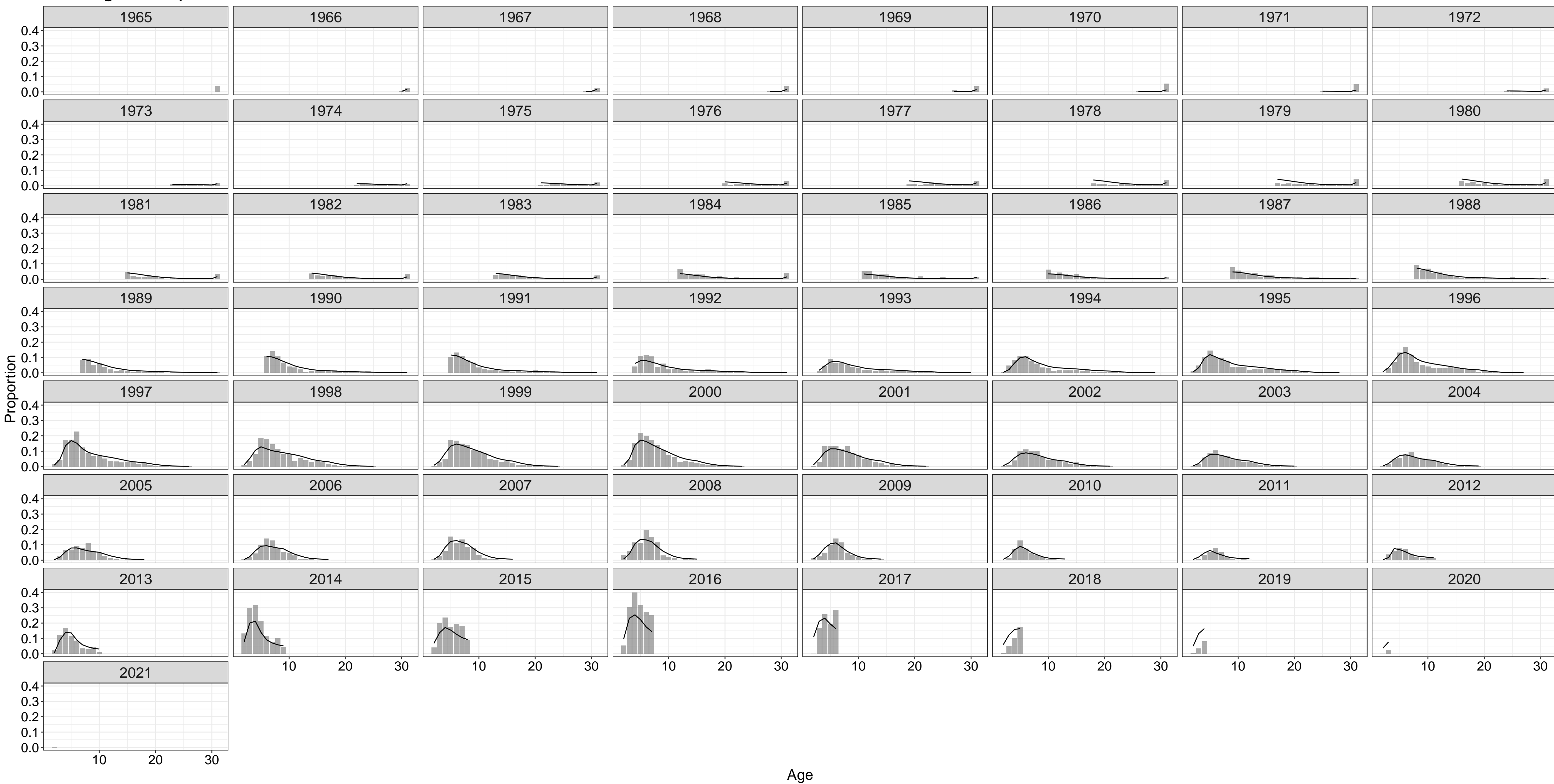
TF Length Comps Male



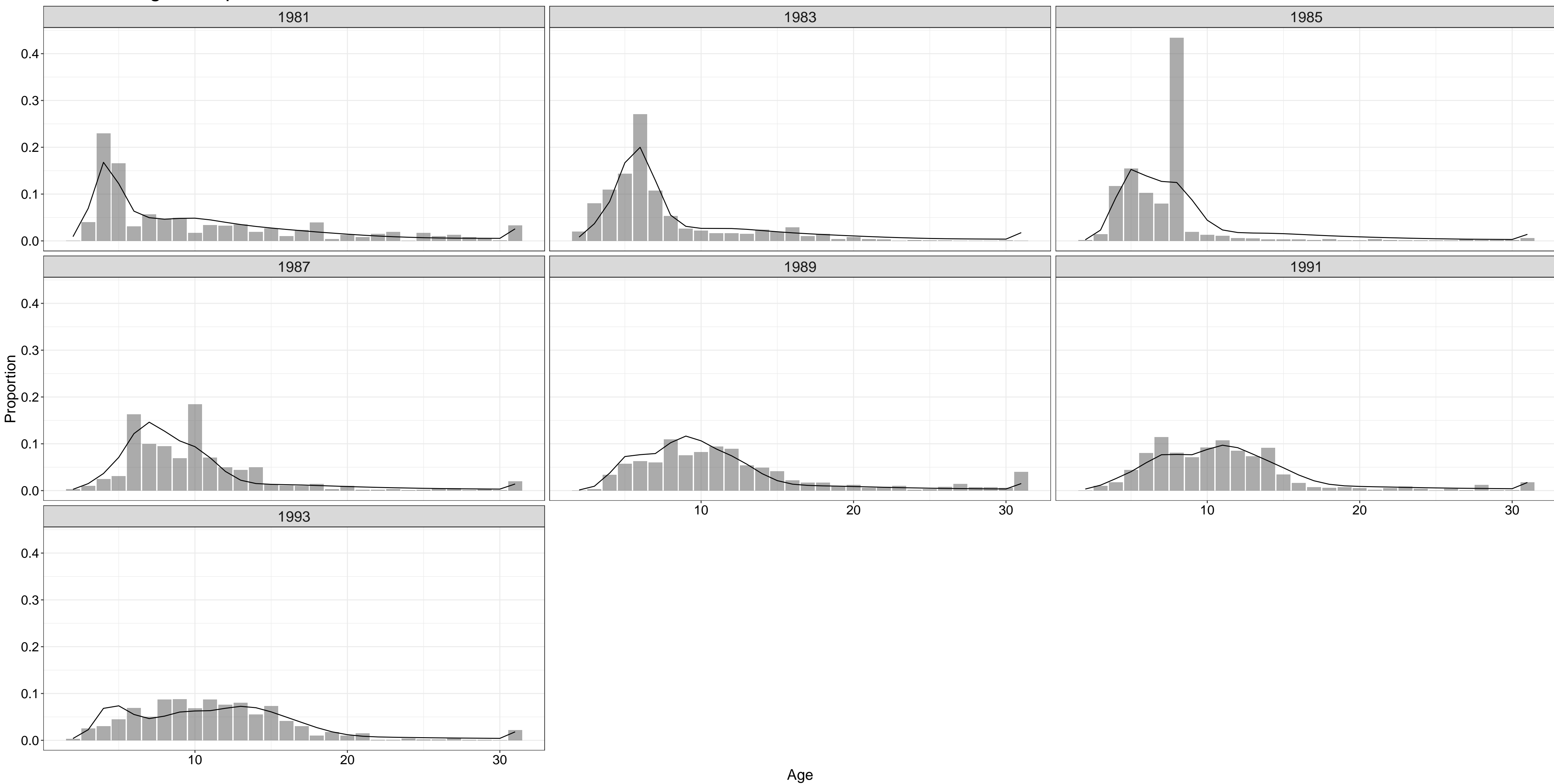
LLS Age Comps Female



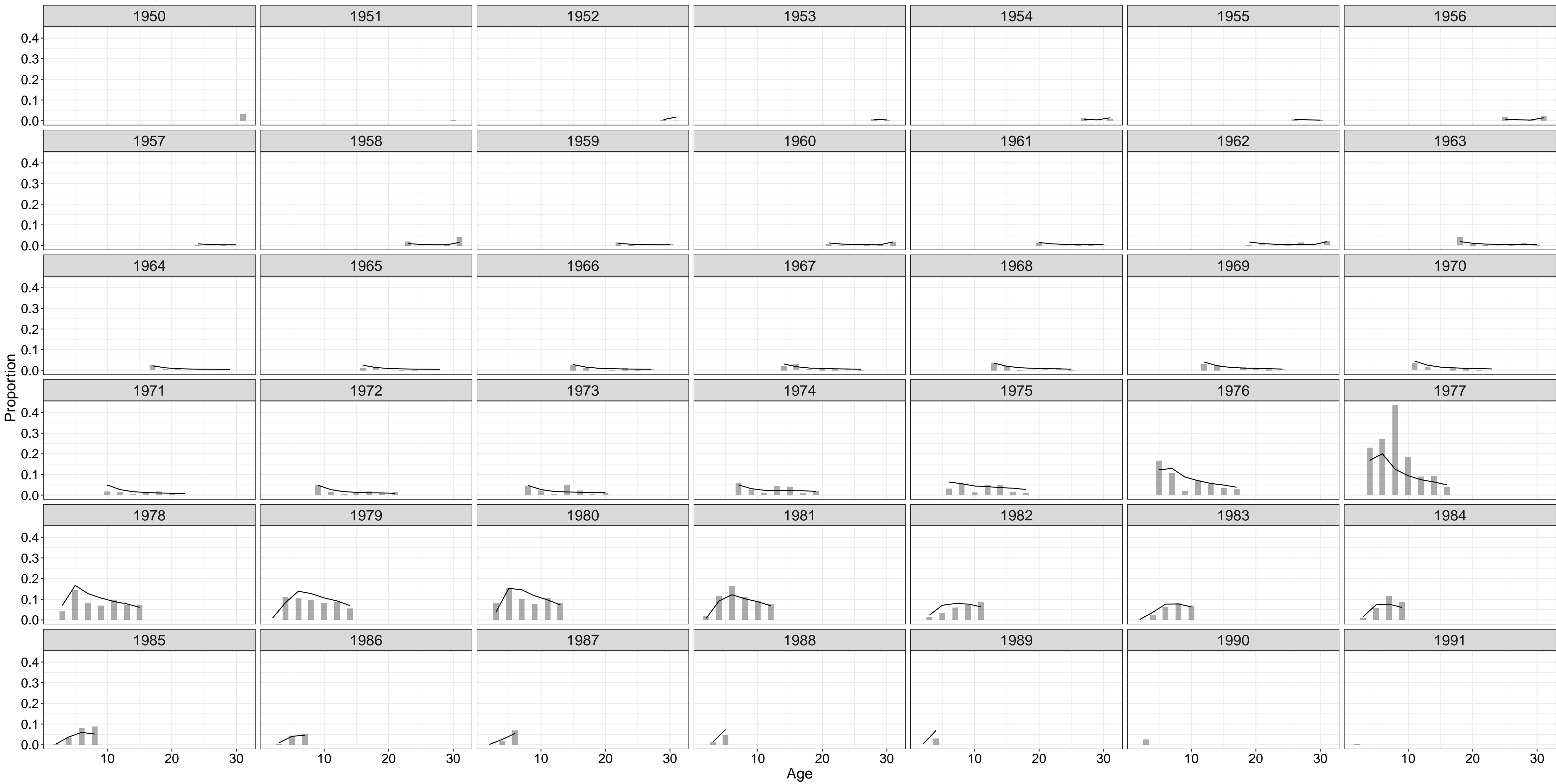
LLS Age Comps Cohort Fit Female



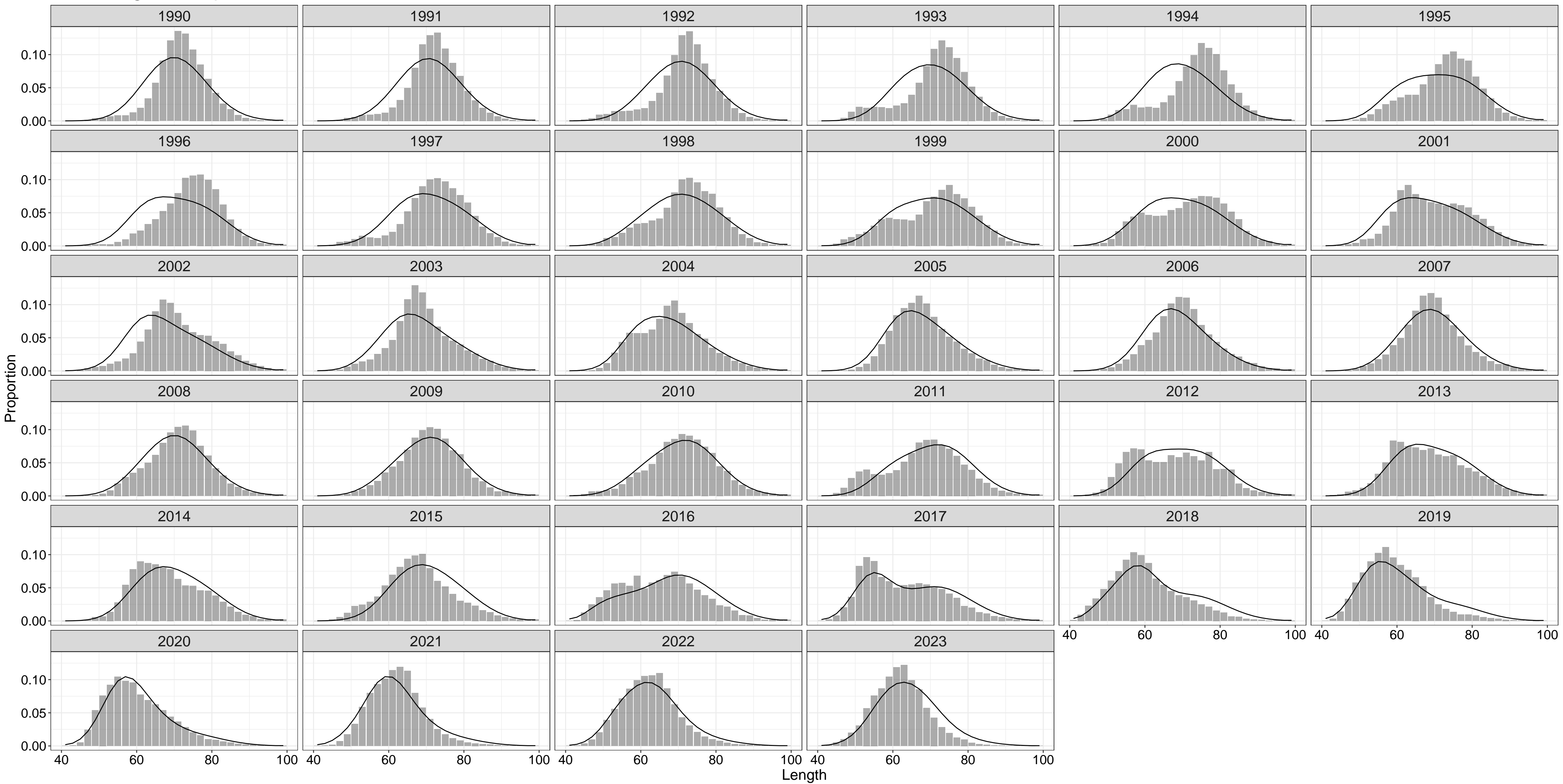
JPN LLS Age Comps Female



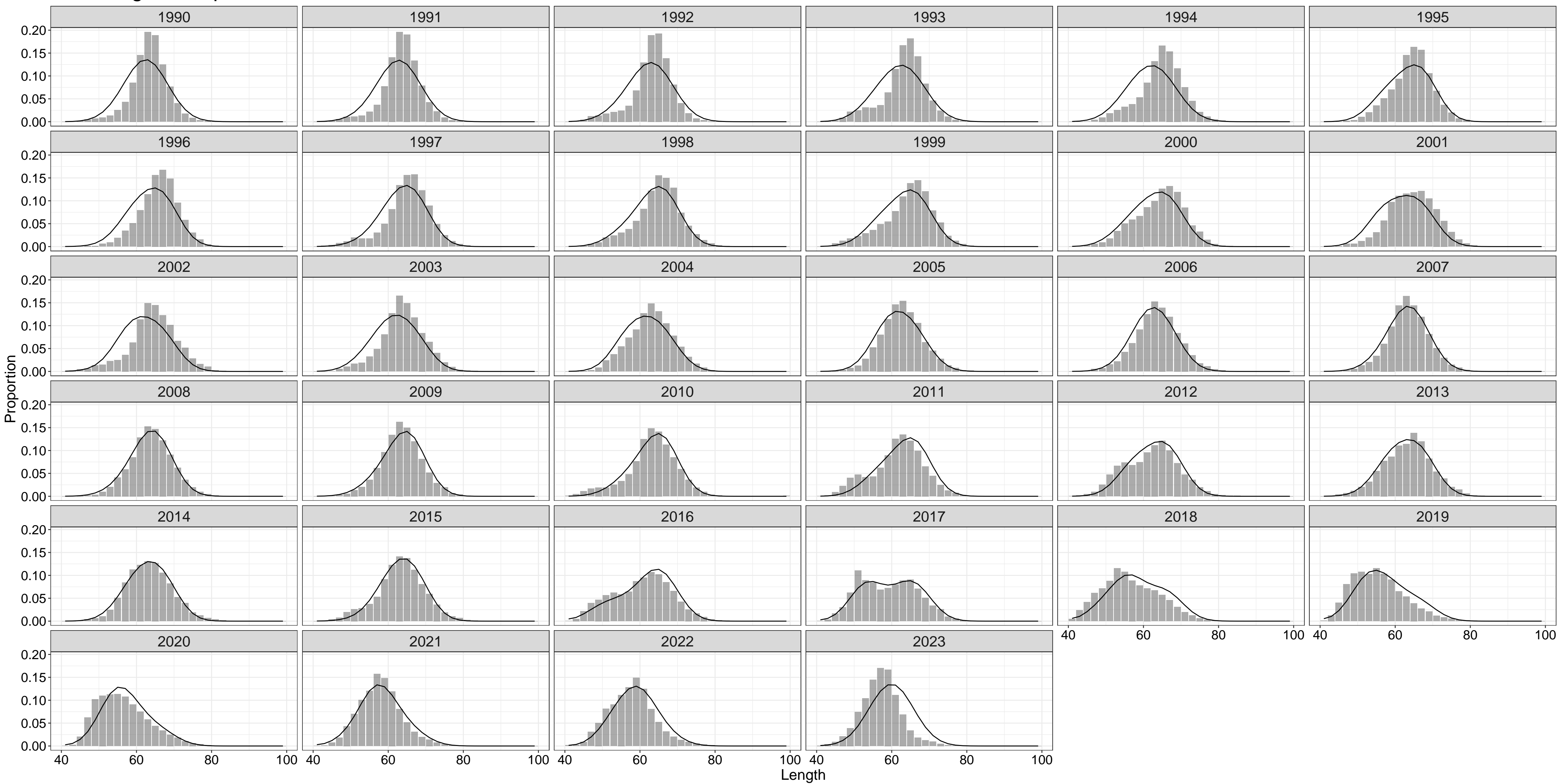
JPN LLS Age Comps Cohort Fit Female



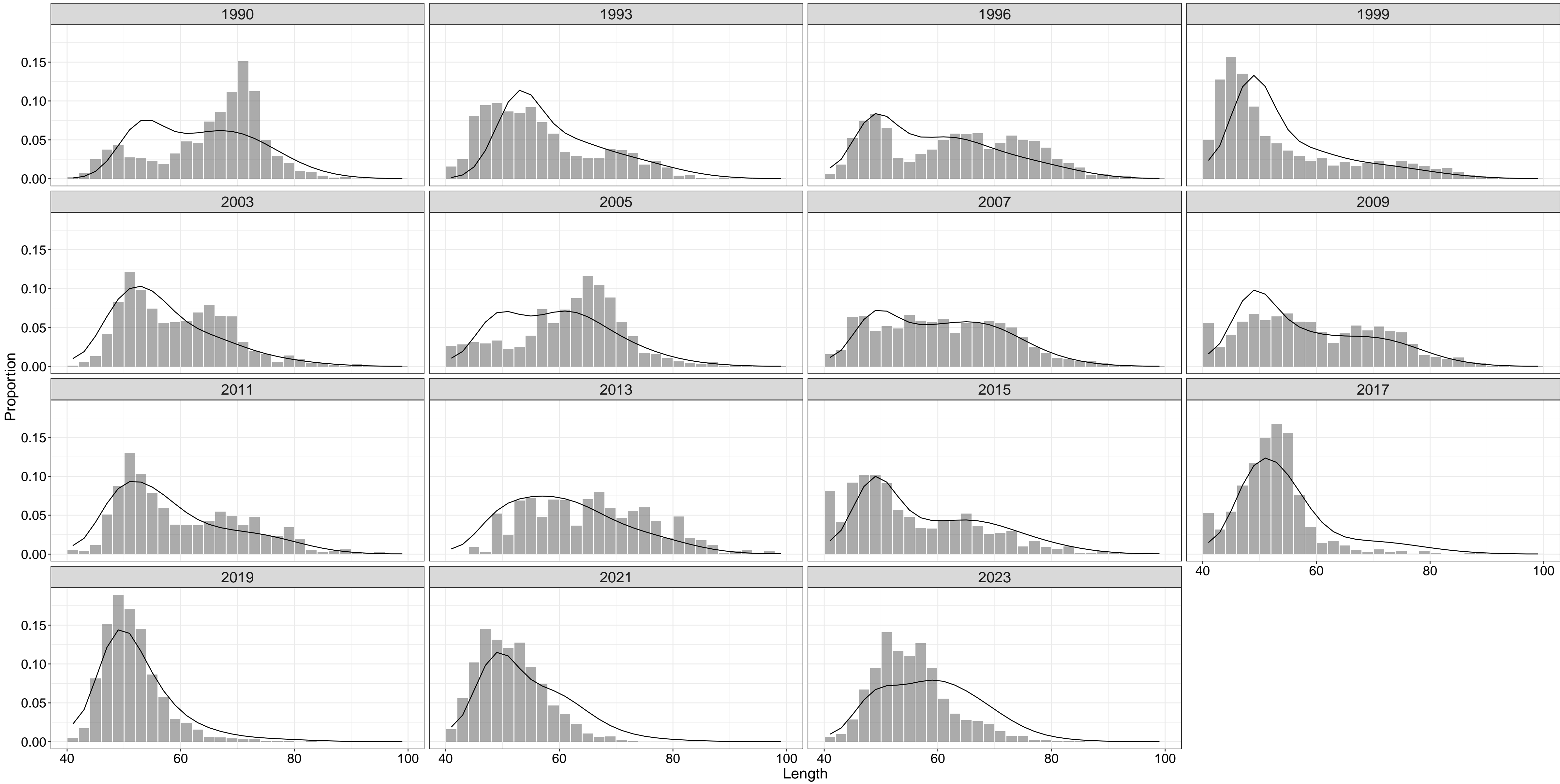
LLS Length Comps Female



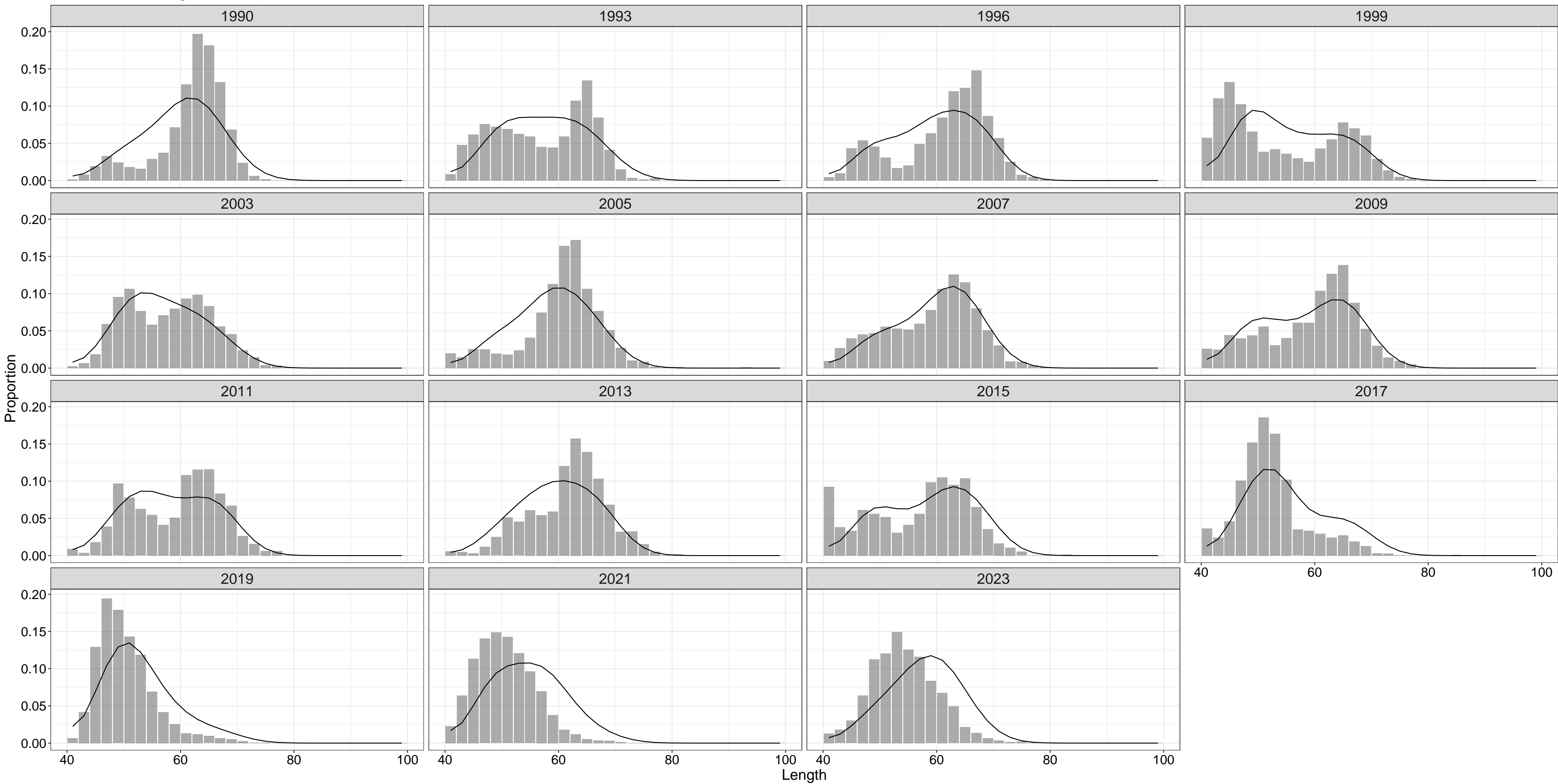
LLS Length Comps Male



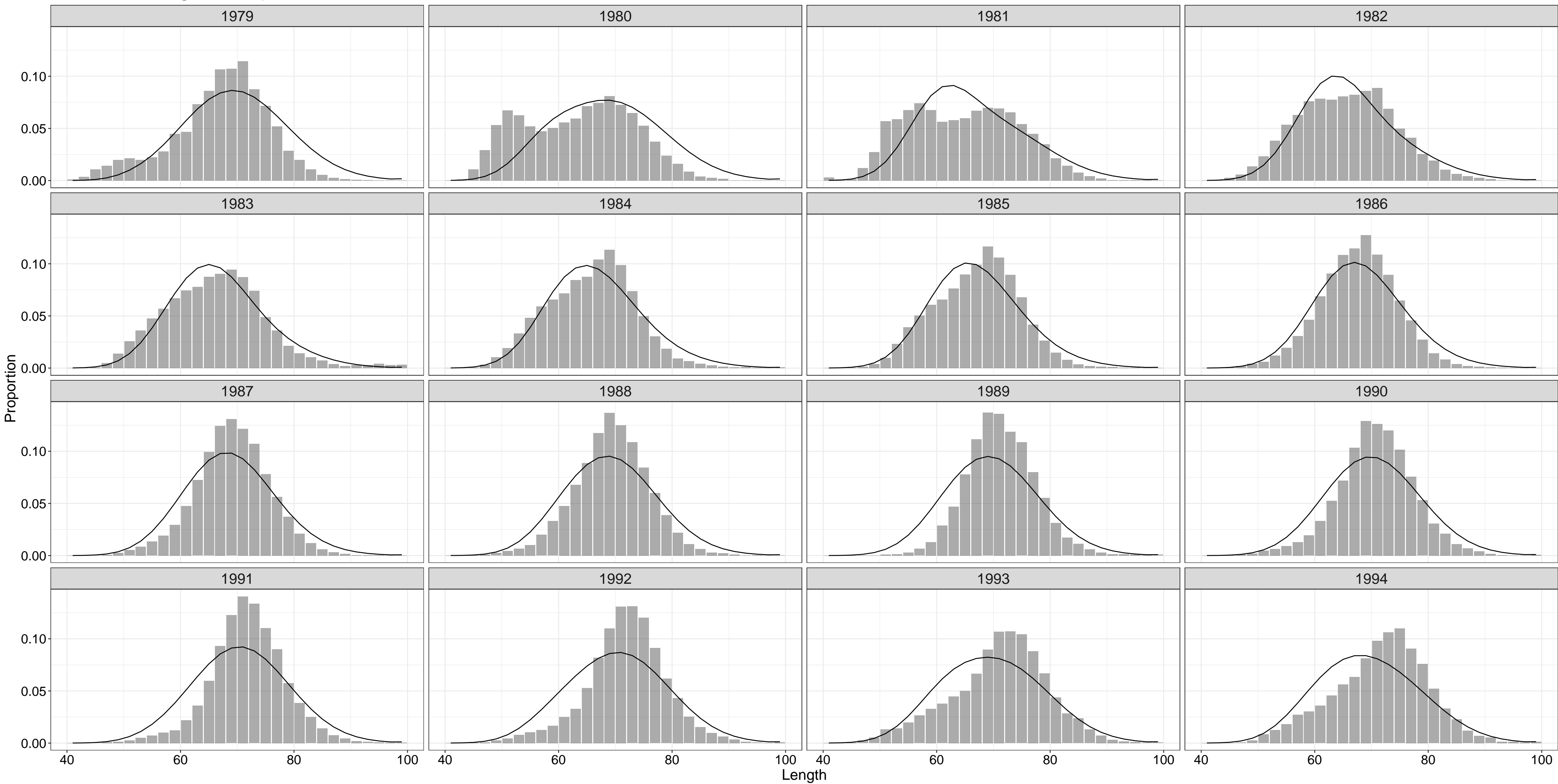
GOA TS Length Comps Female



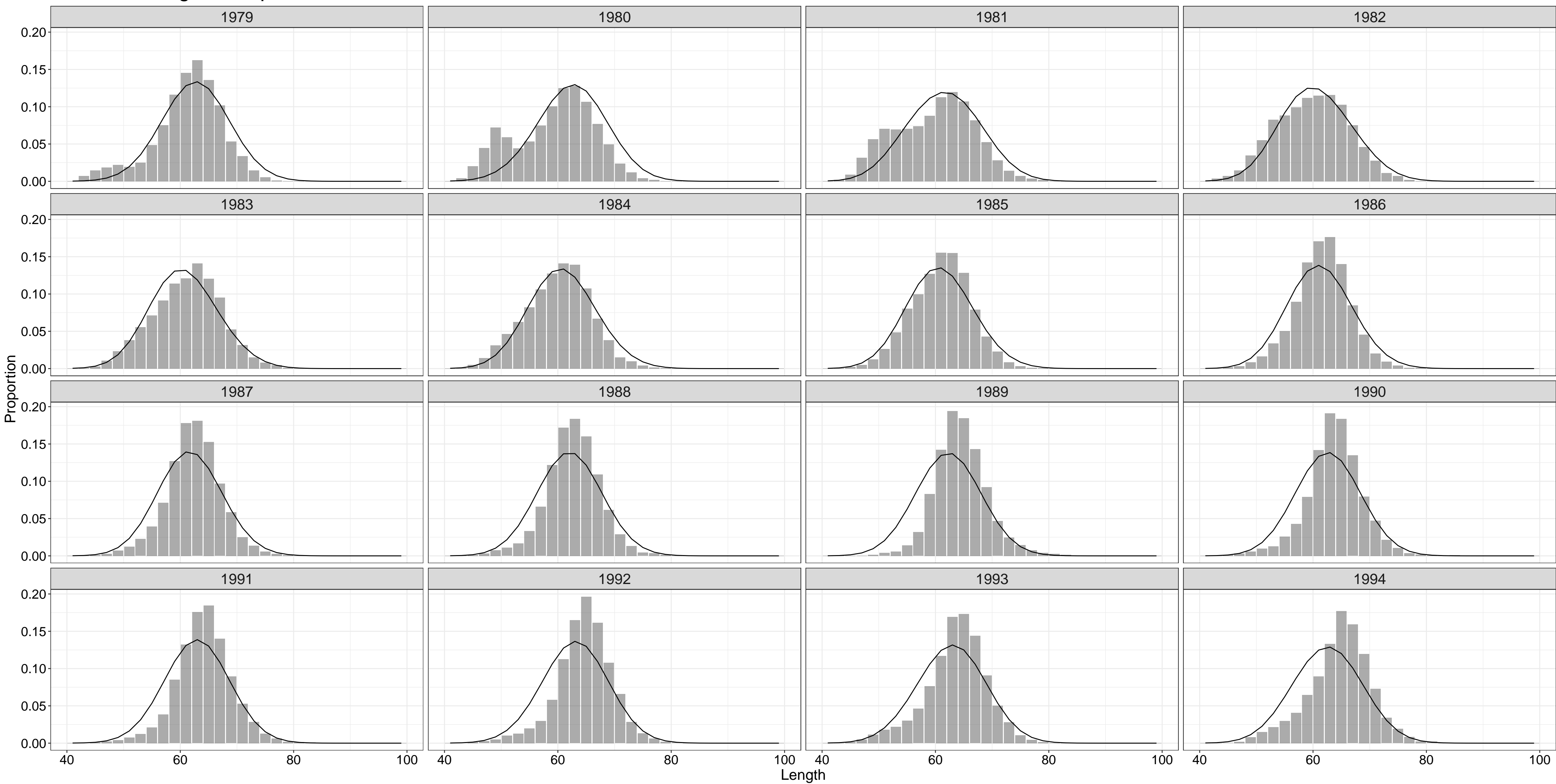
GOA TS Length Comps Male

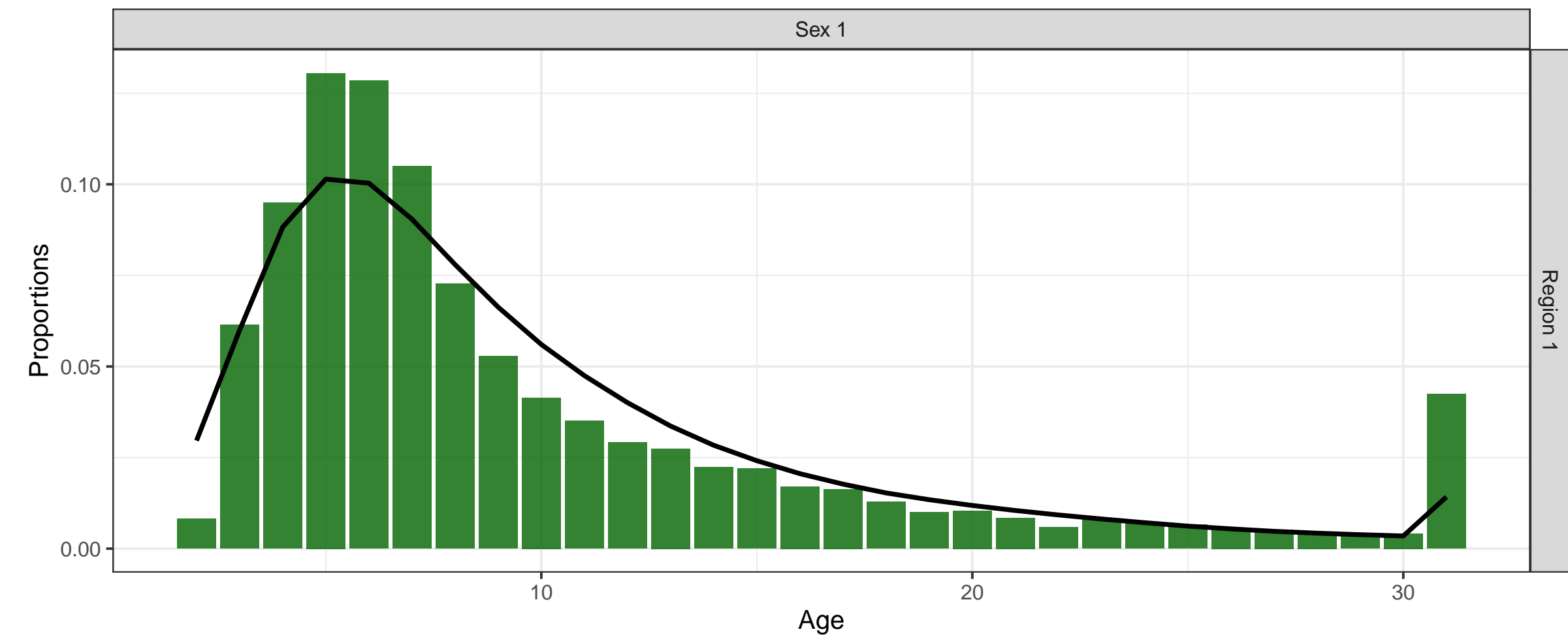
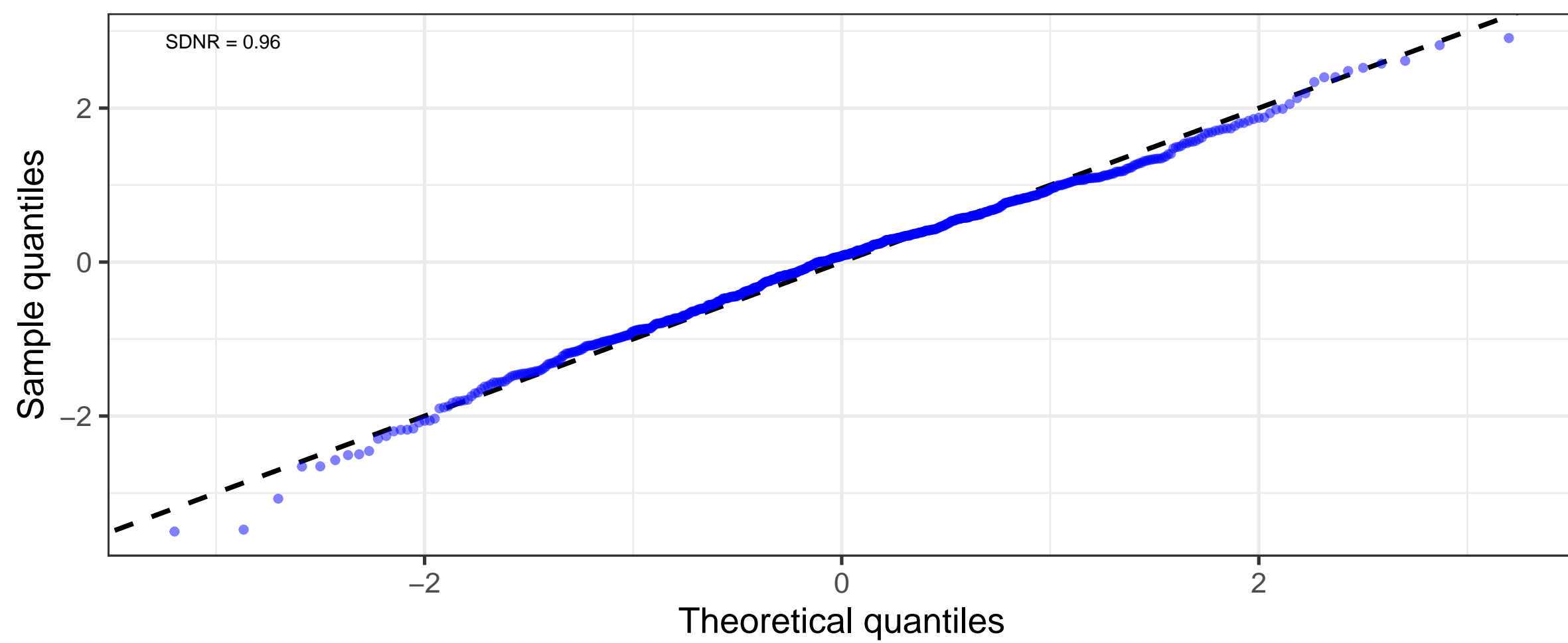
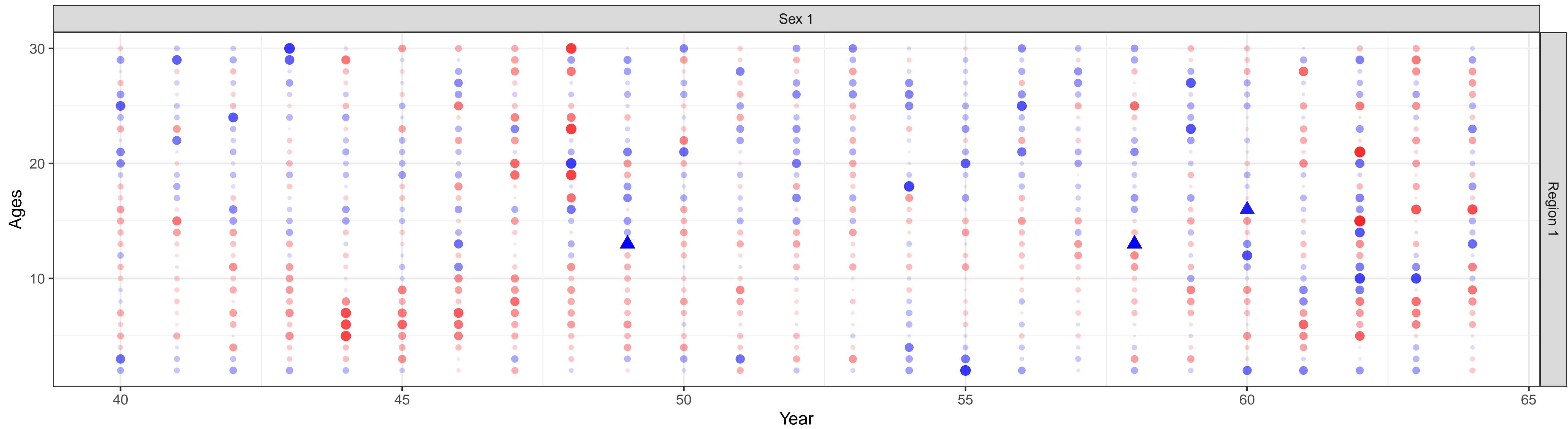


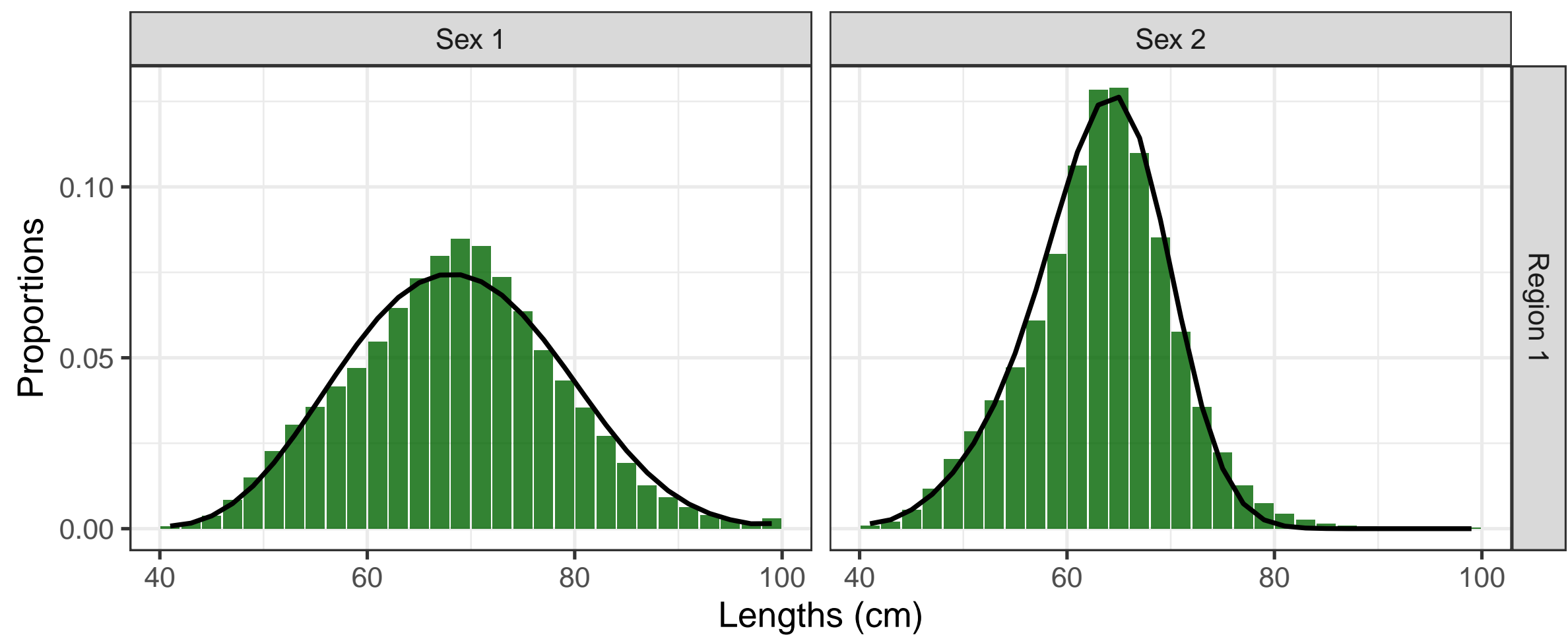
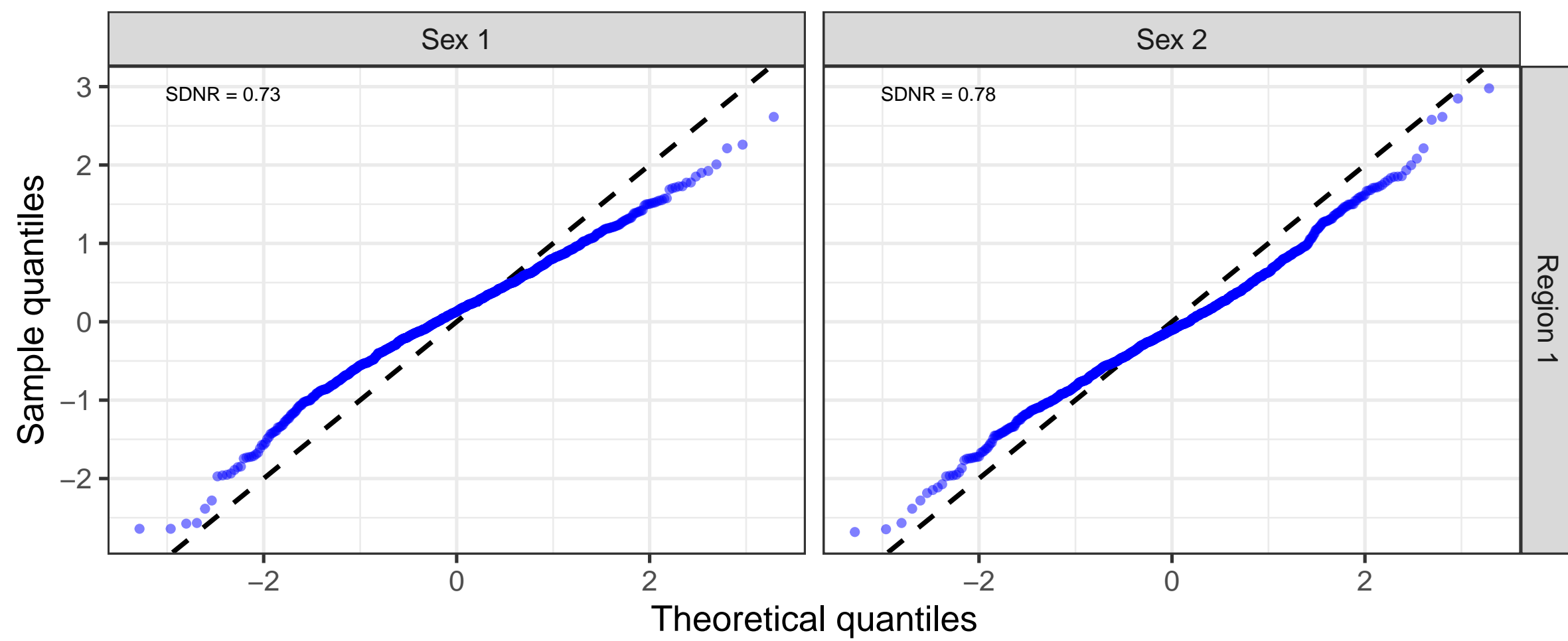
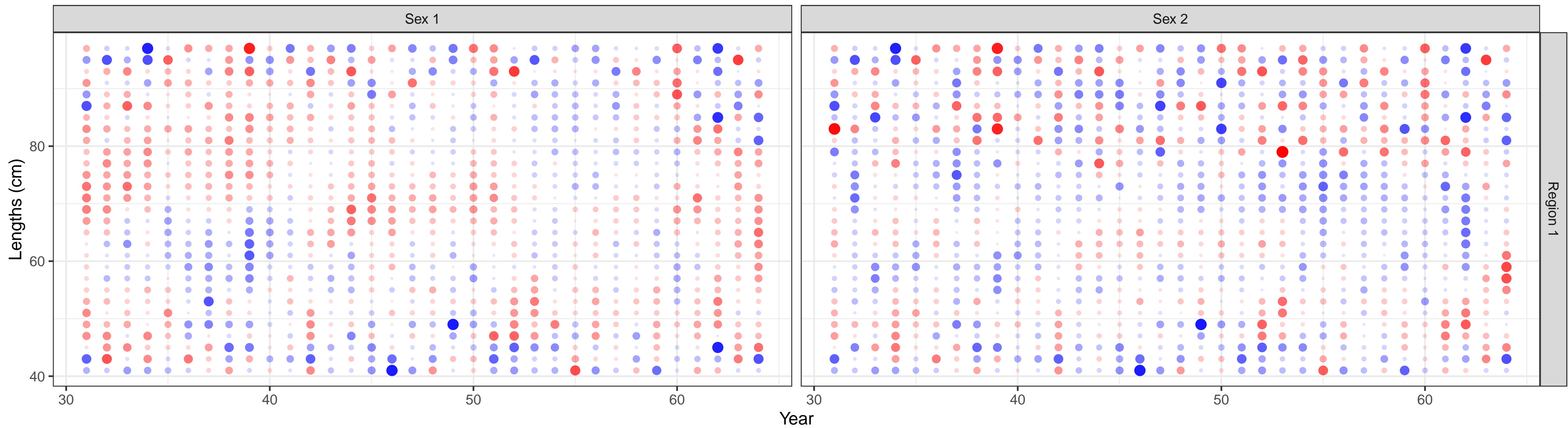
JPN LLS Length Comps Female

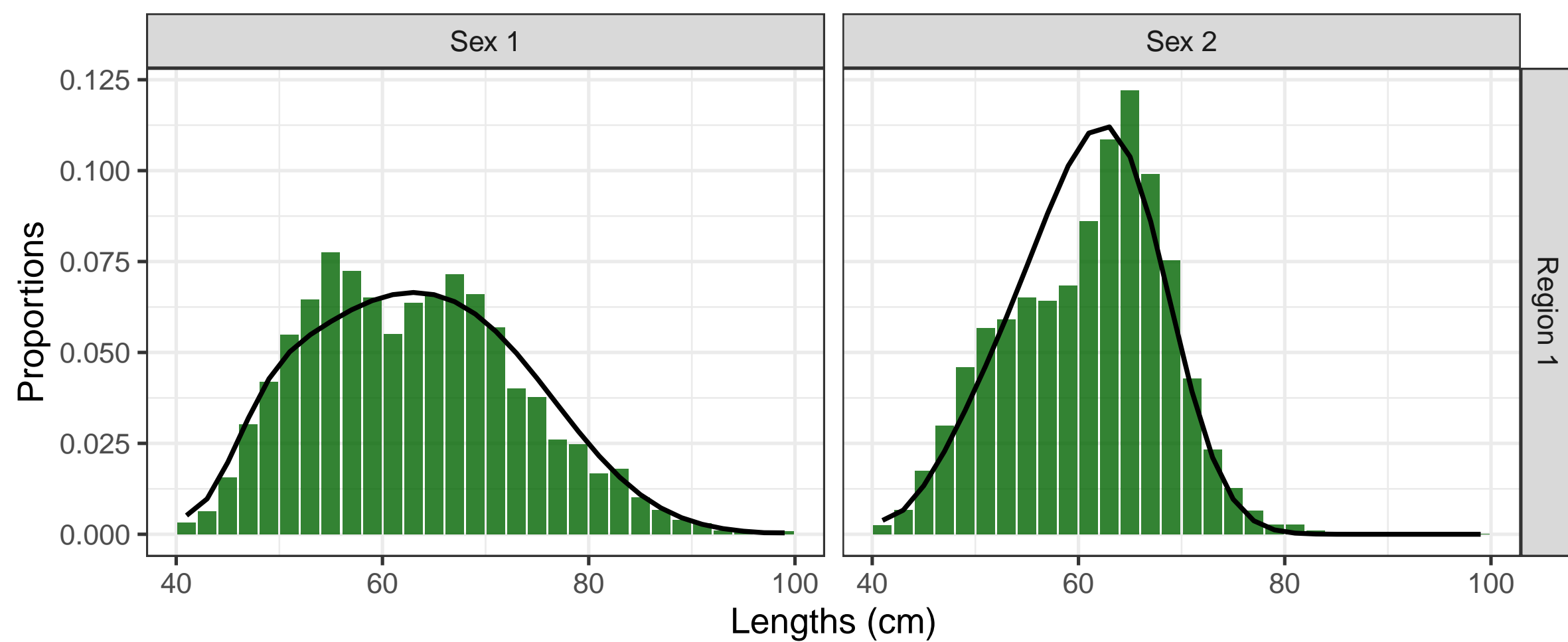
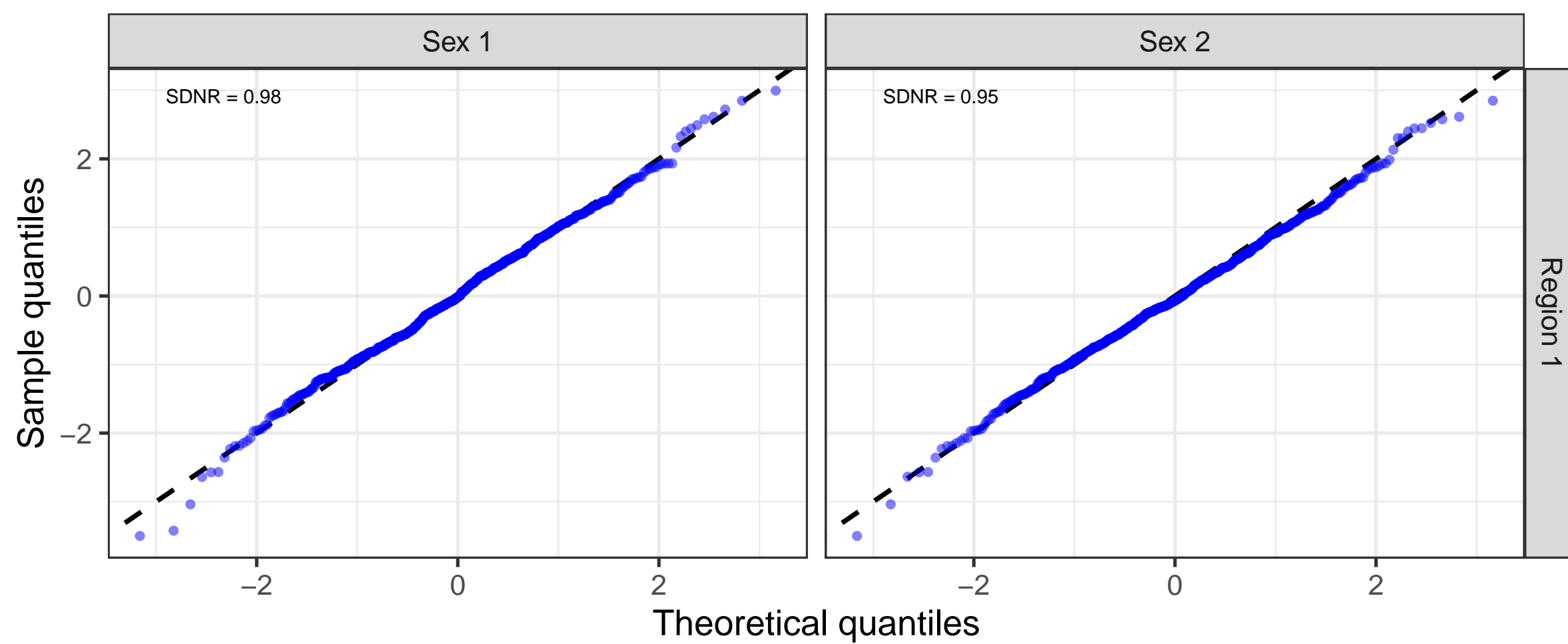
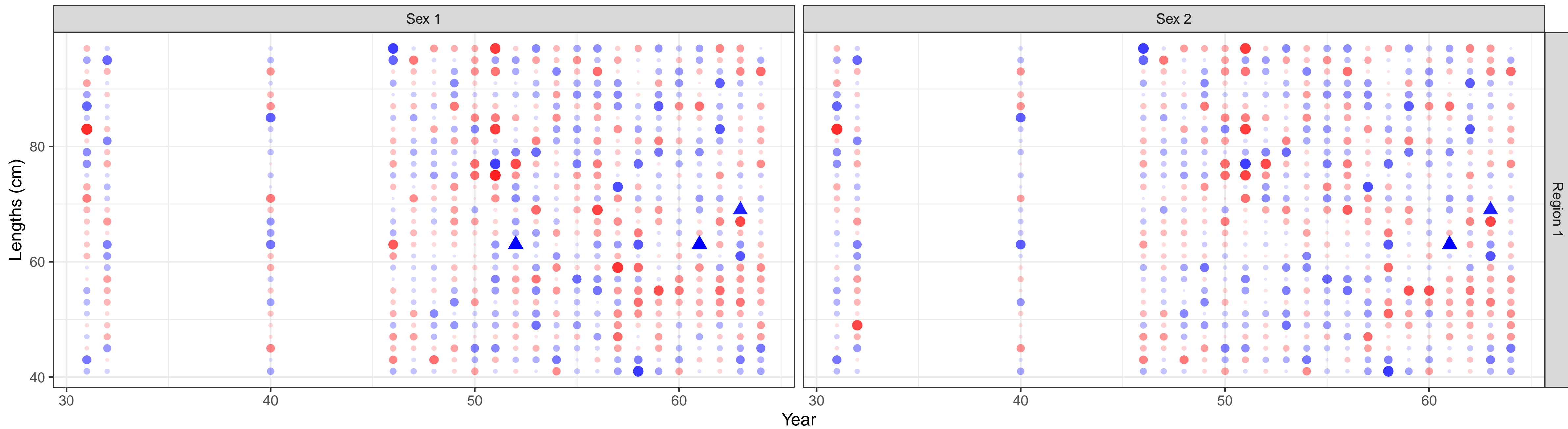


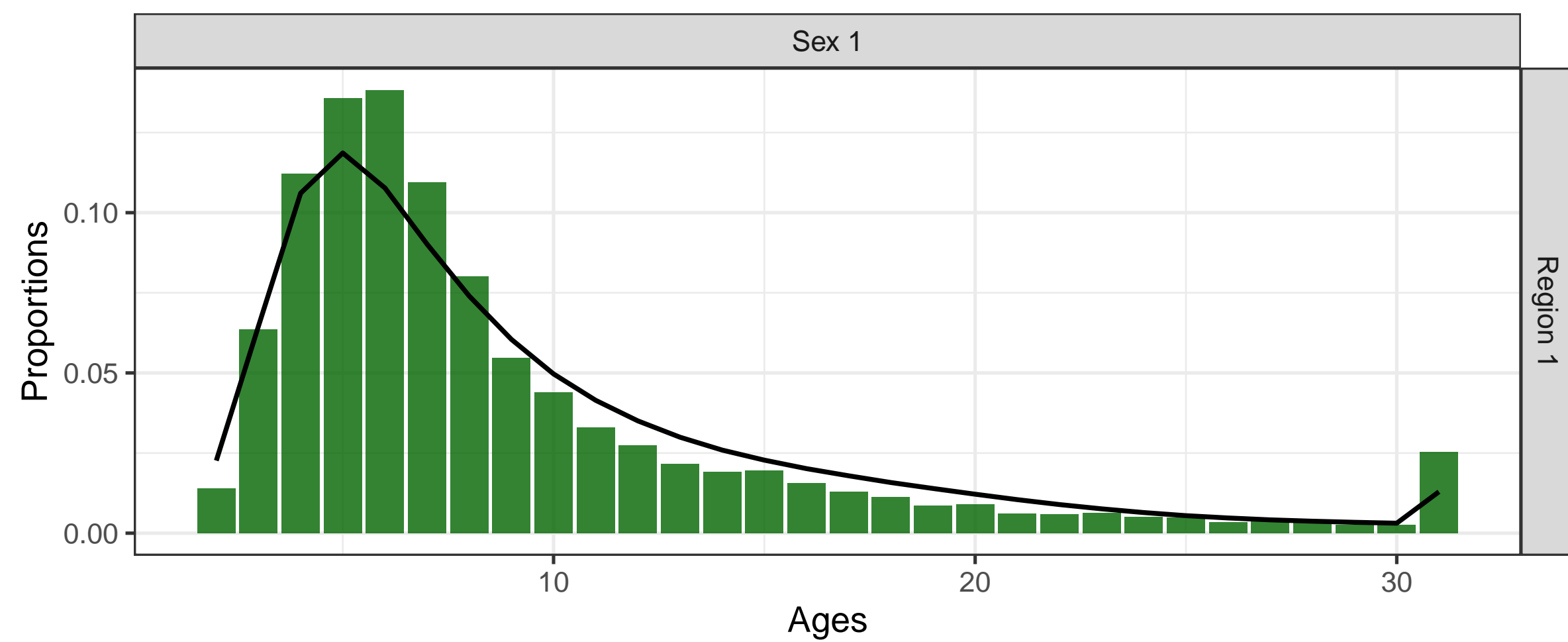
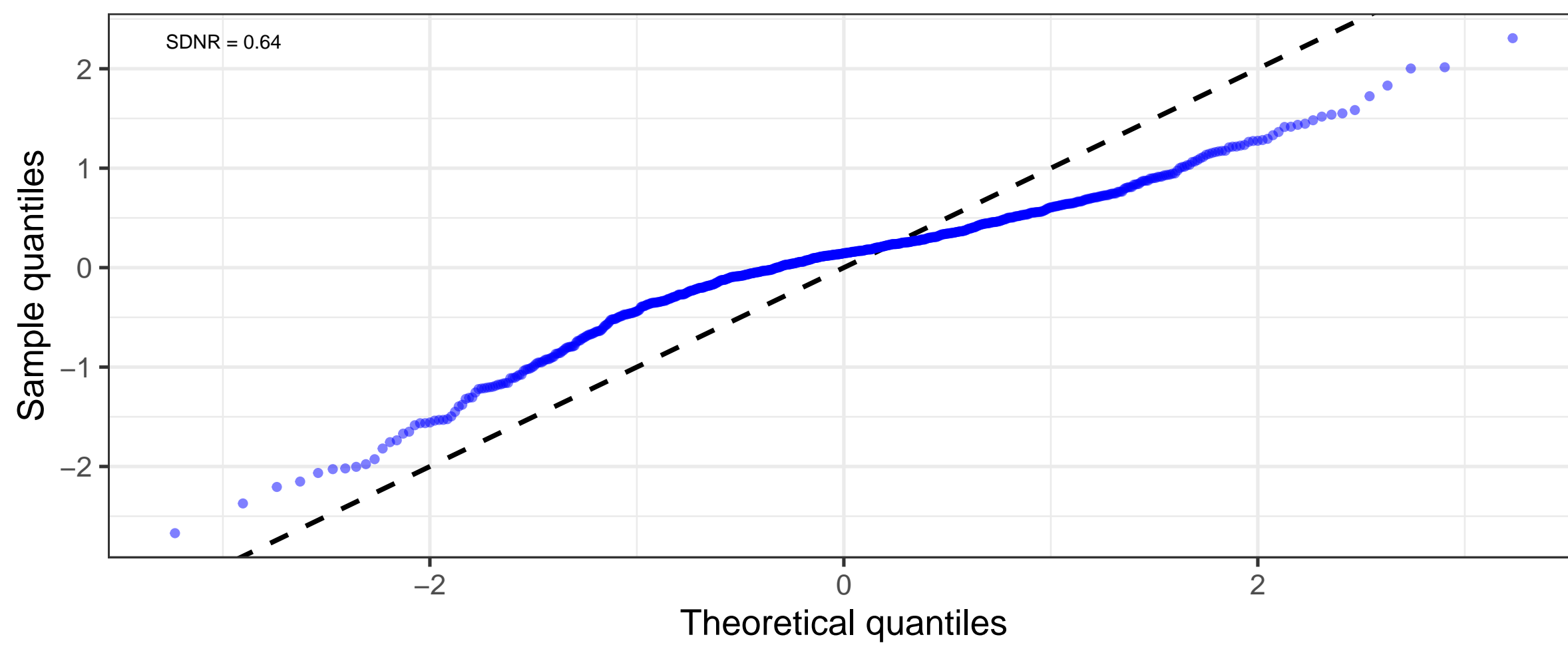
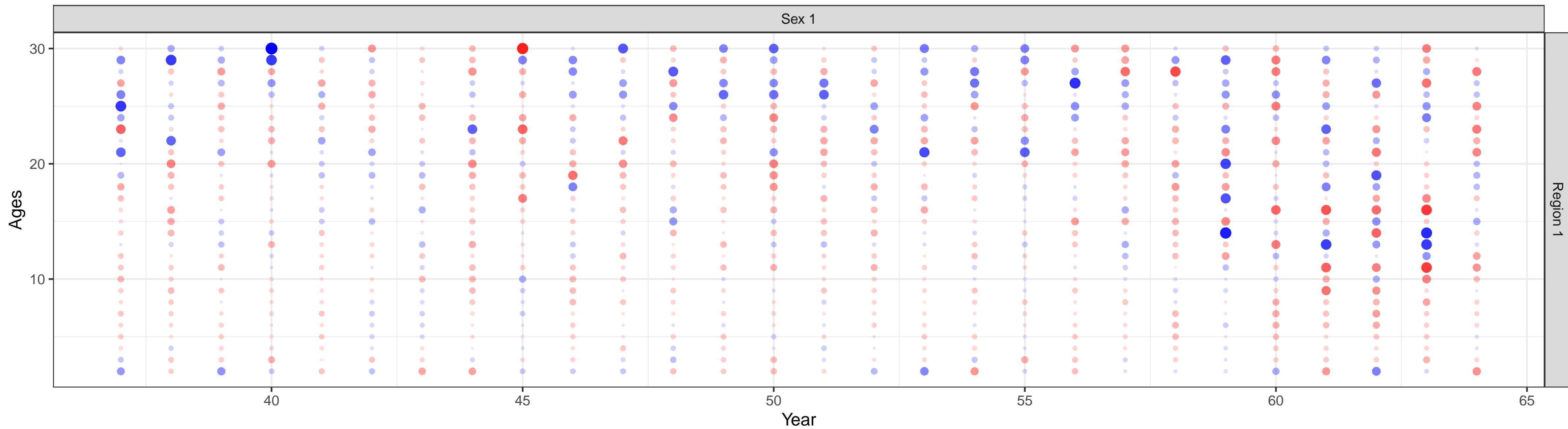
JPN LLS Length Comps Male

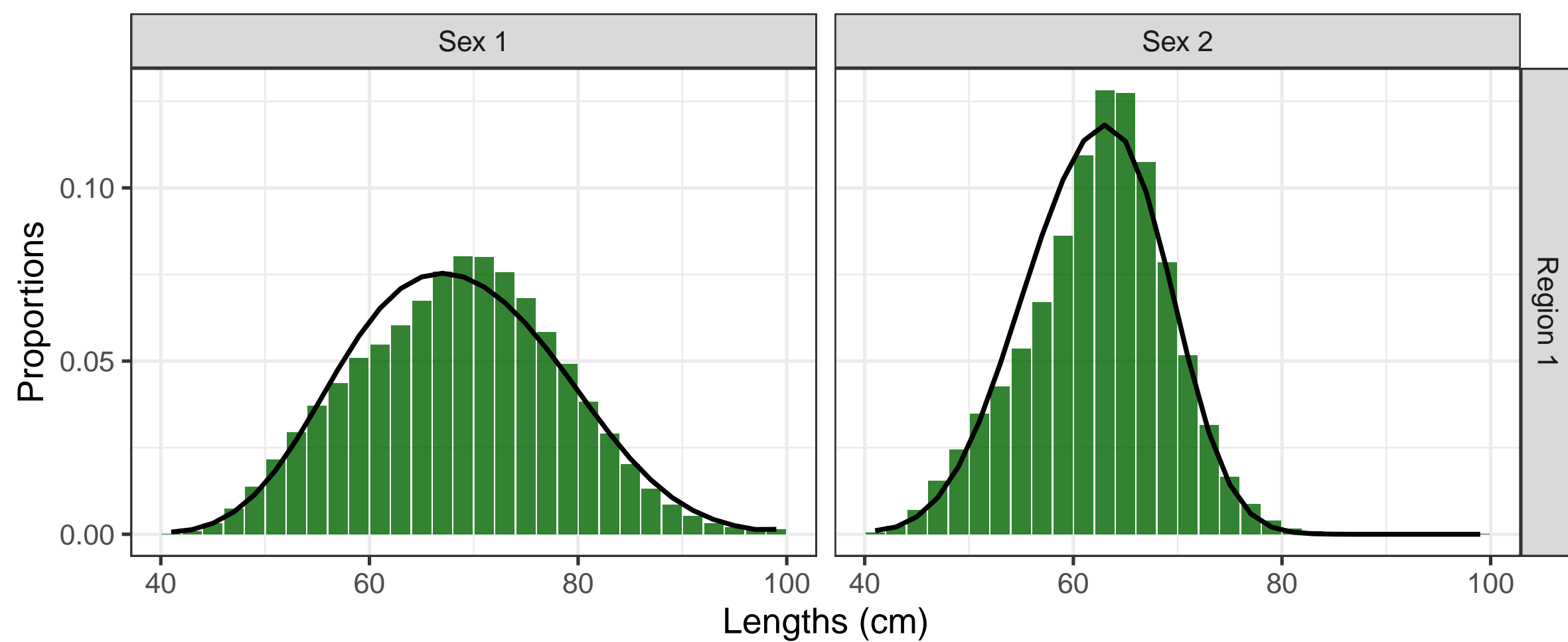
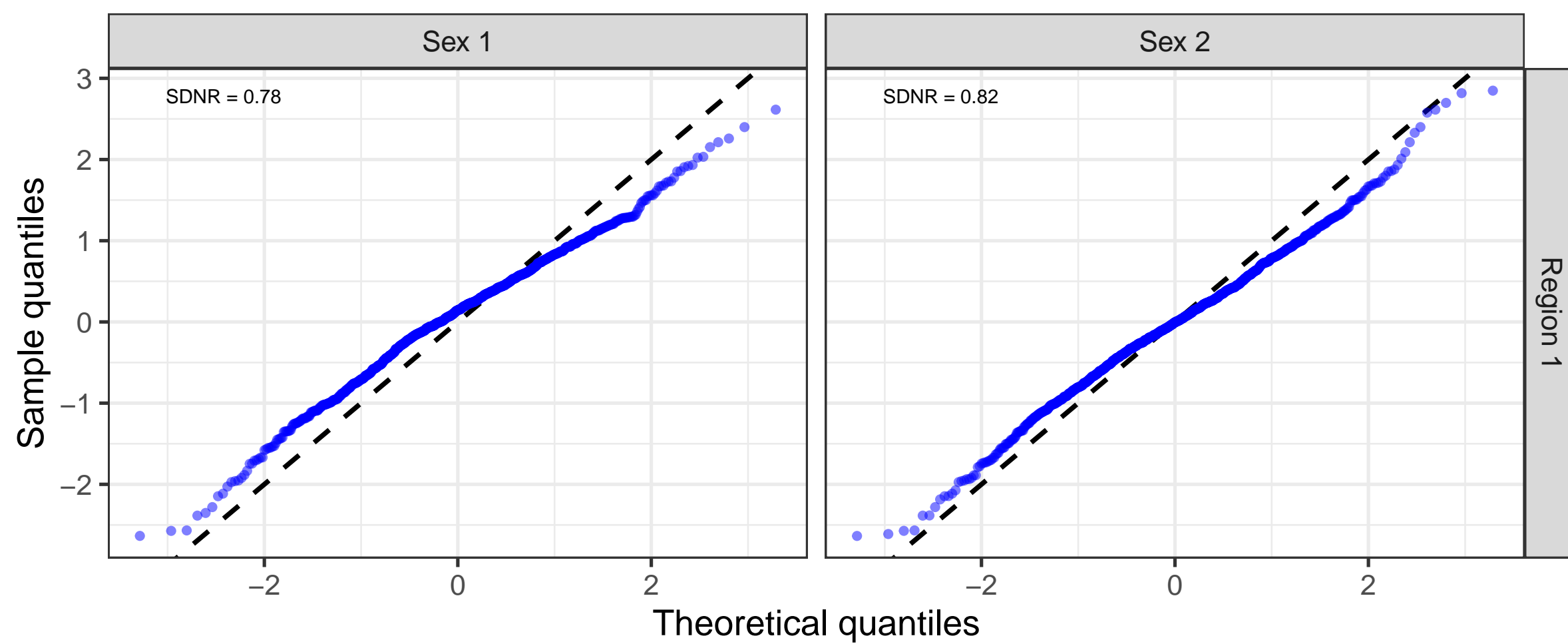
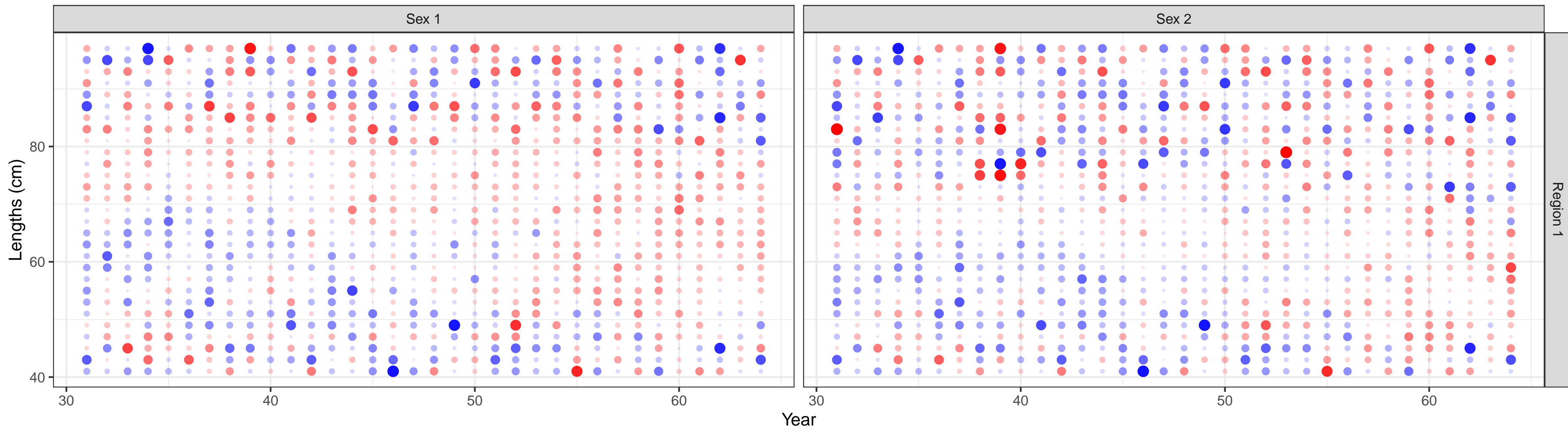






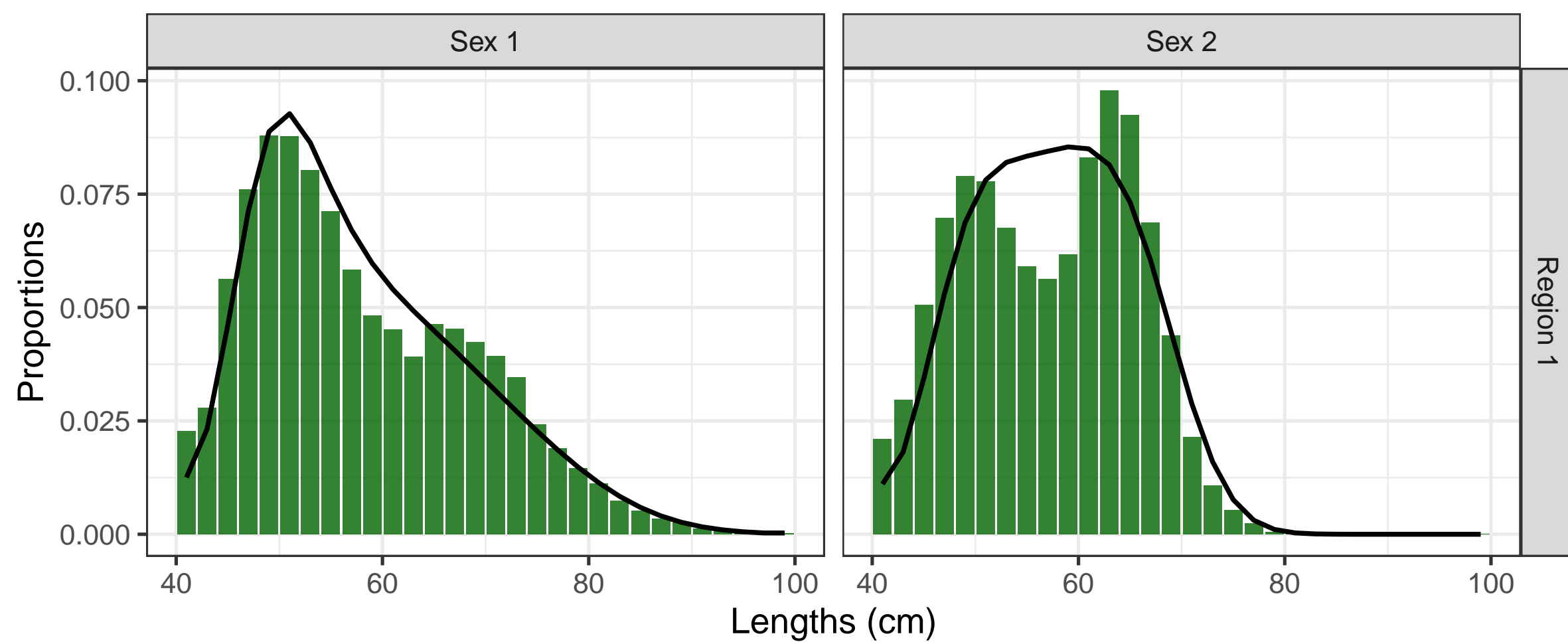
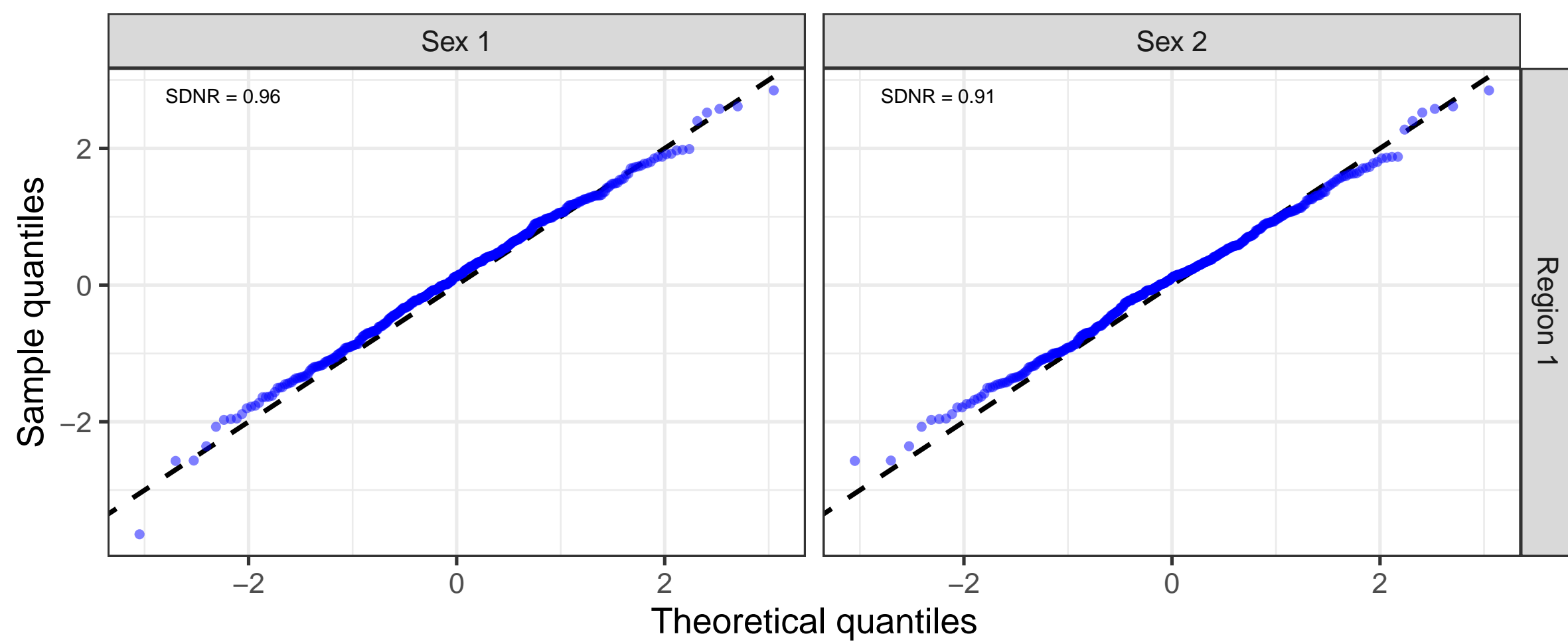
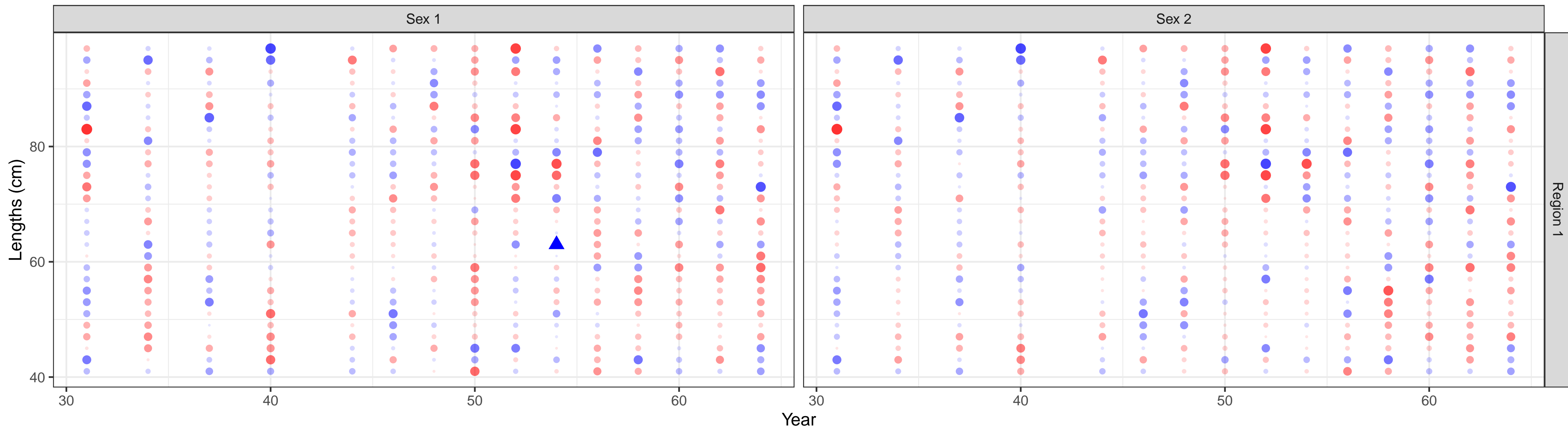




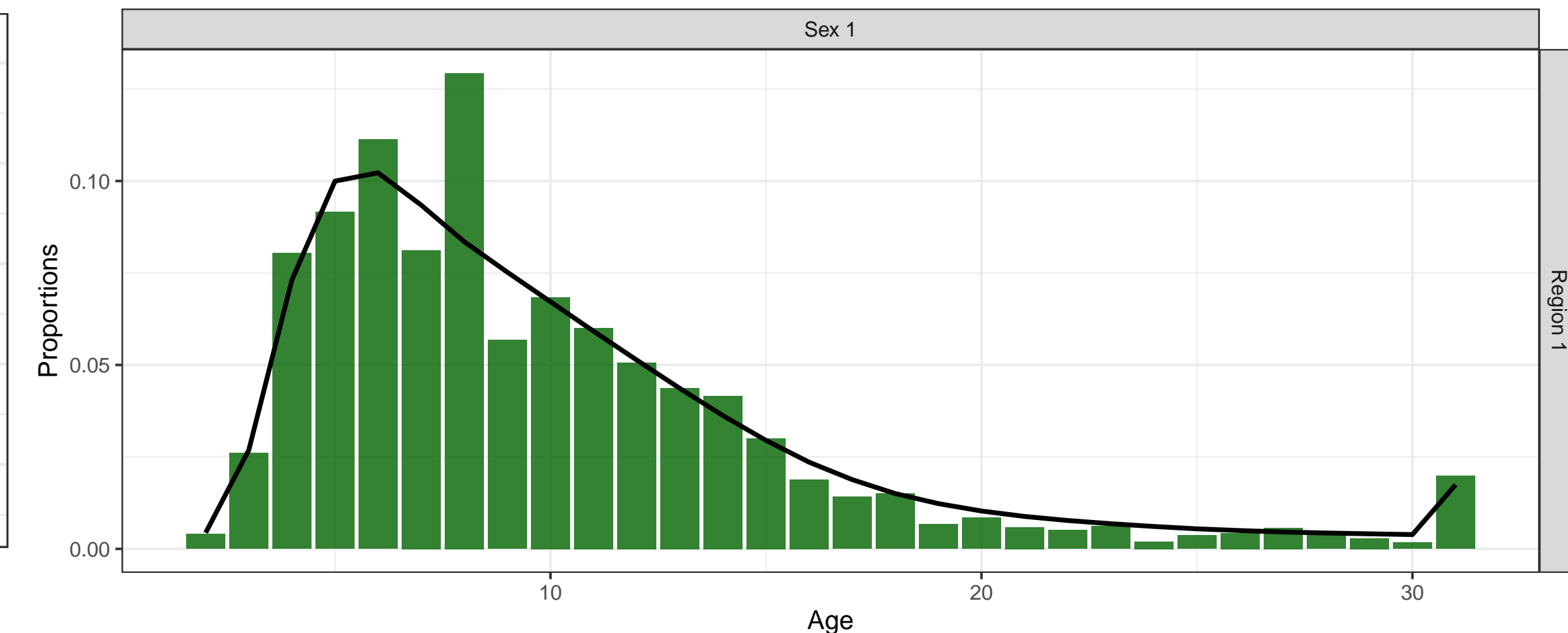
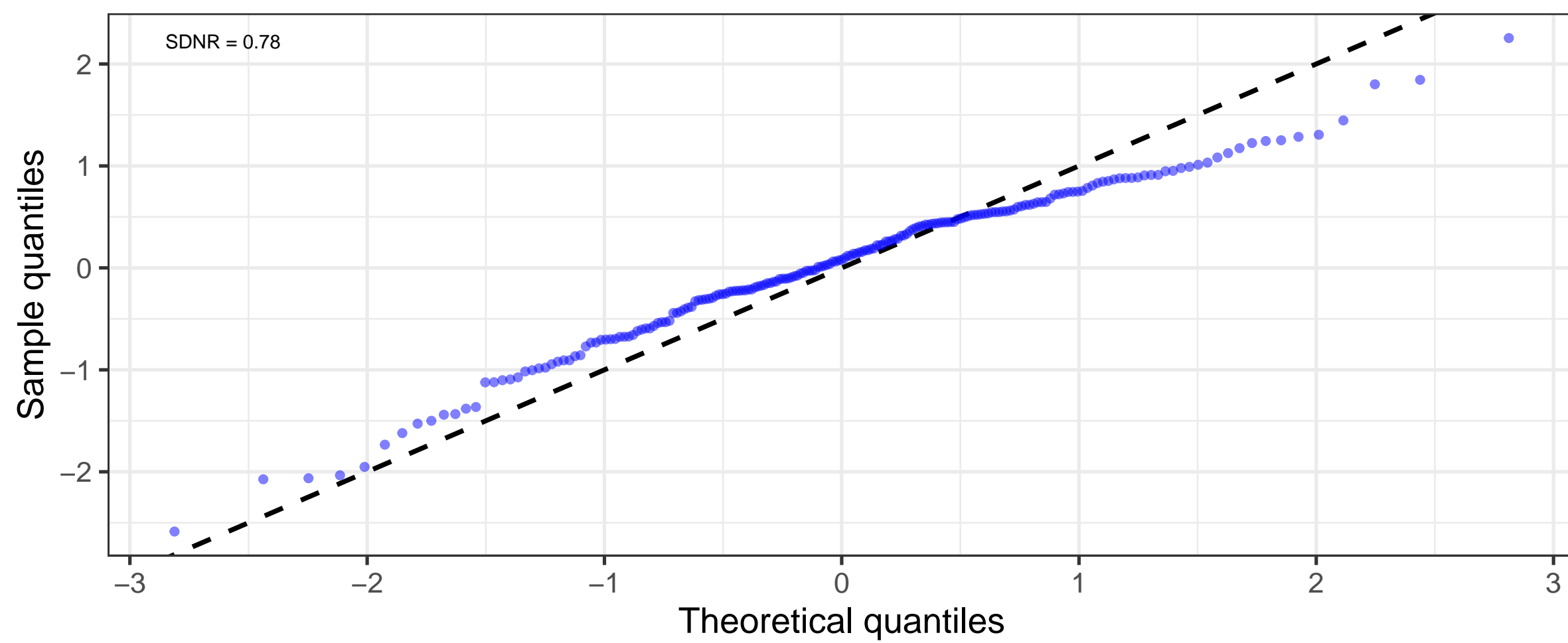
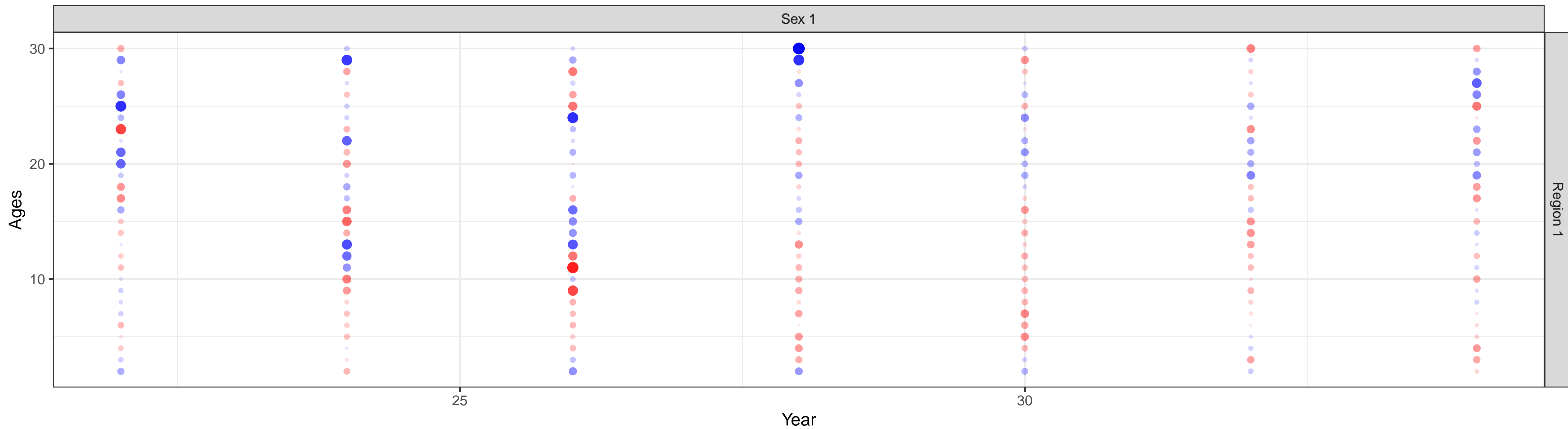


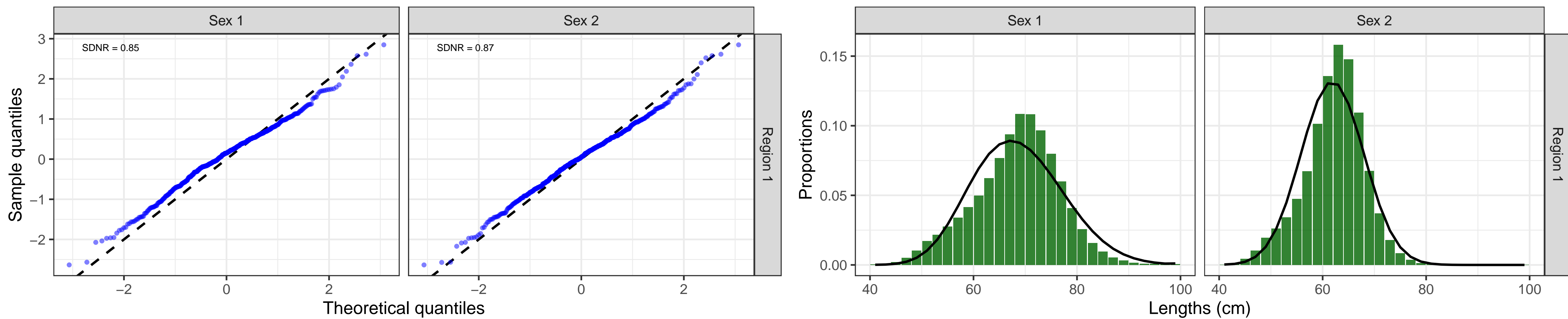
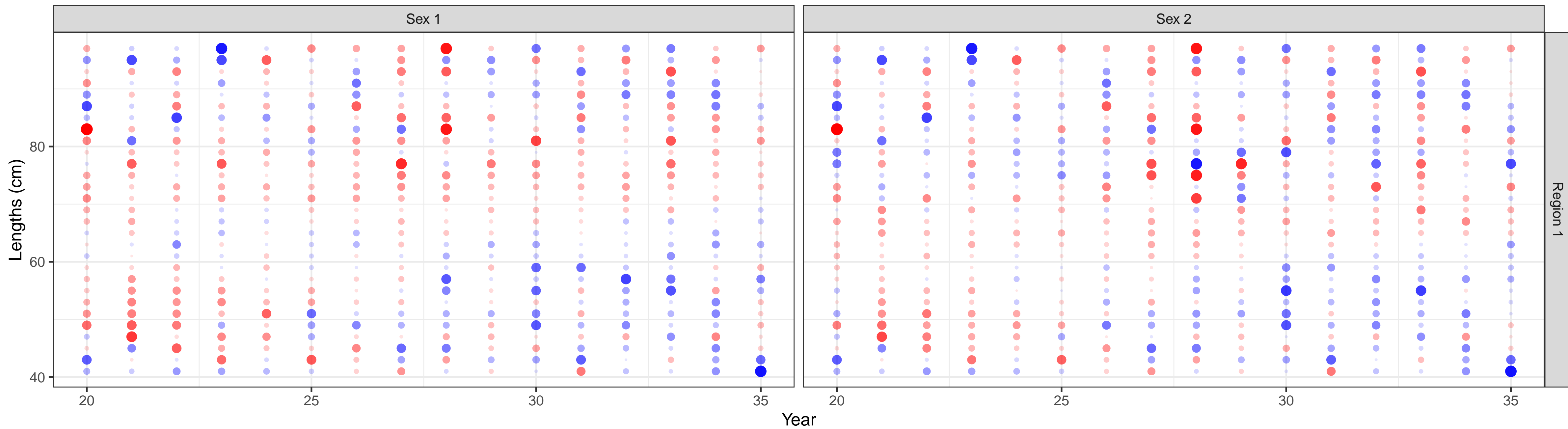
TS OSA Length Comps

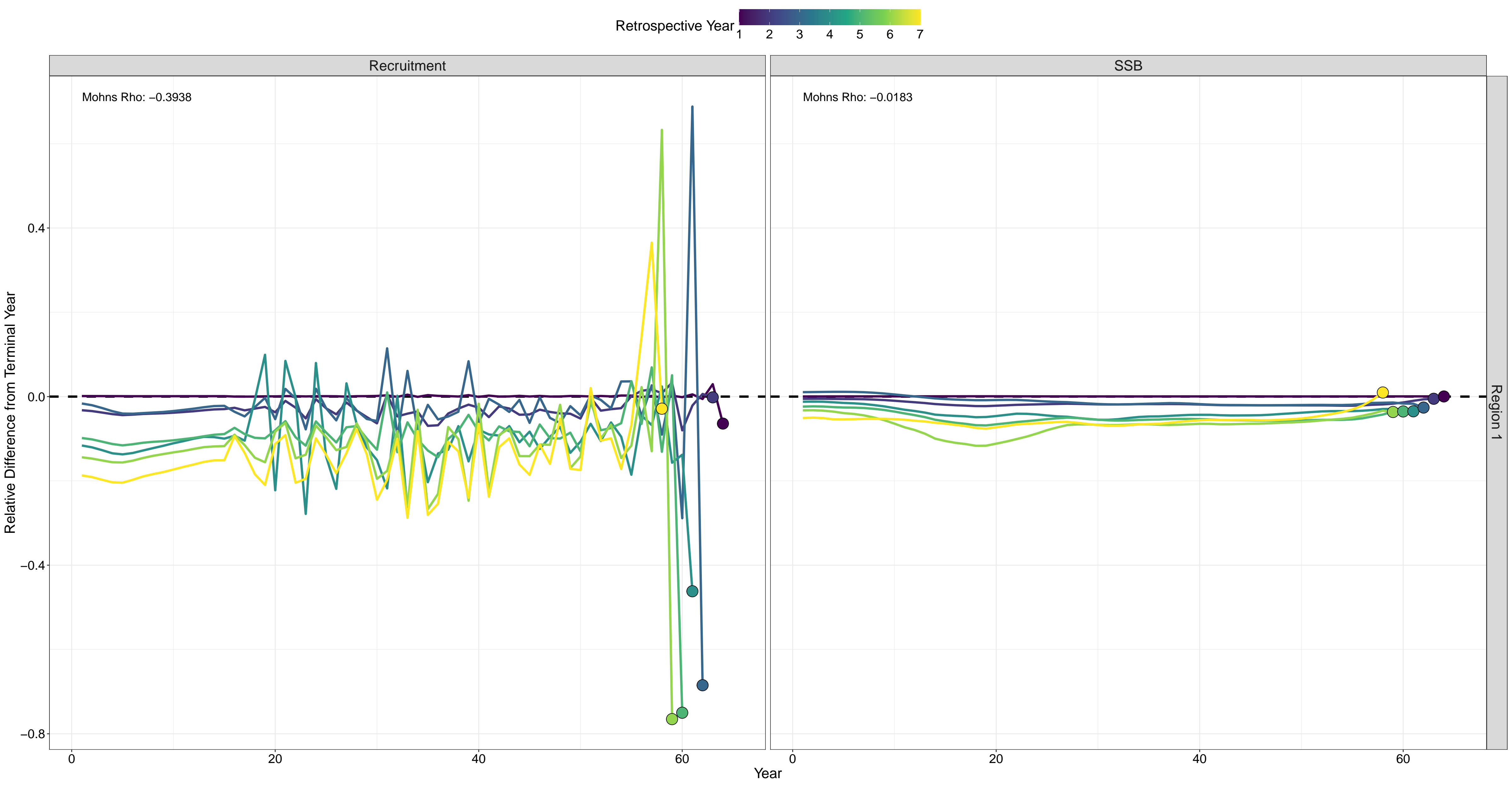
abs(Resid) ● 1 ● 2 ● 3 Sign ● Neg ● Pos Outlier ● No ▲ Yes



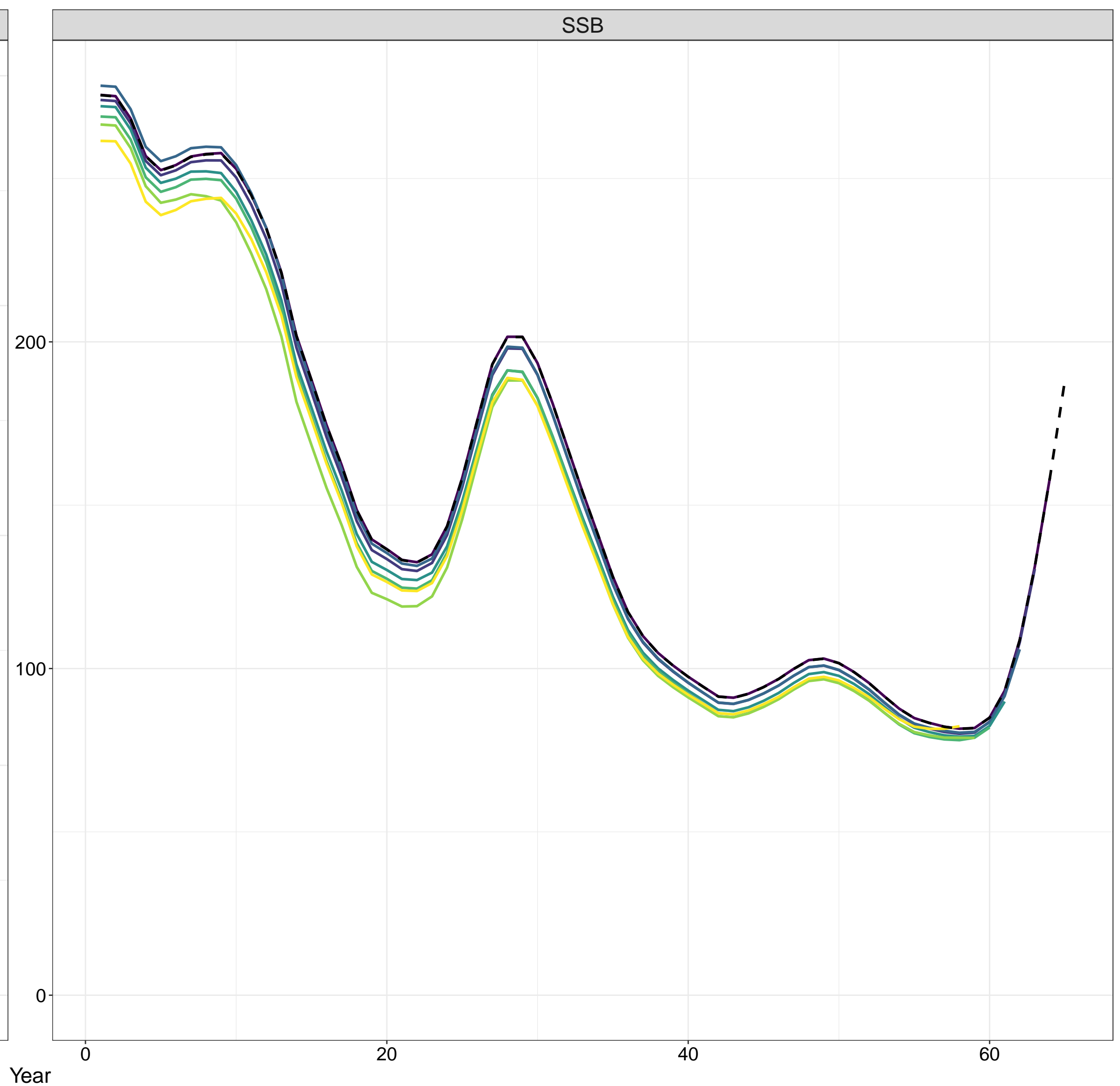
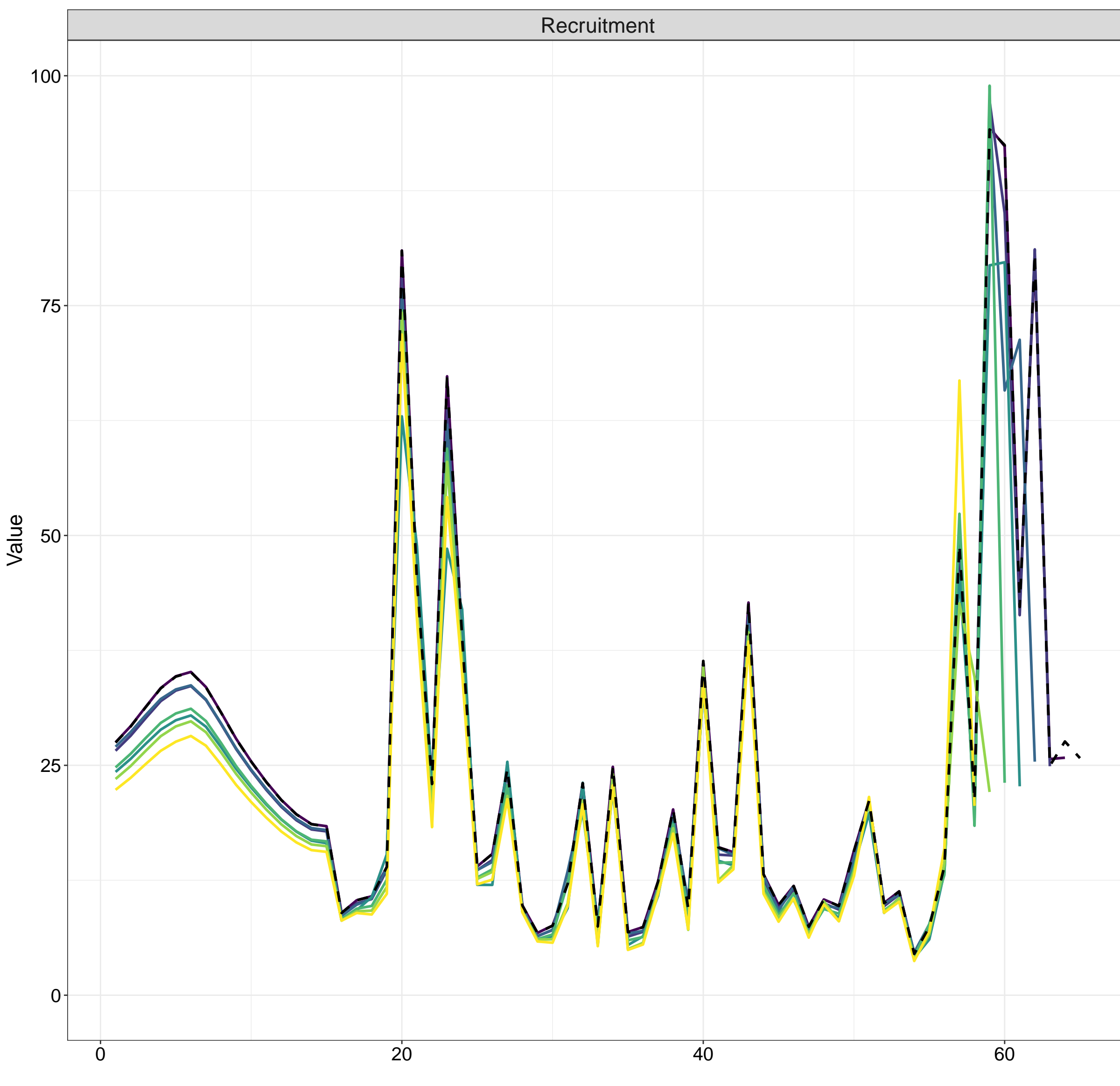
Sign • Neg • Pos Outlier • No abs(Resid) • 0.5 • 1.0 • 1.5 • 2.0 • 2.5

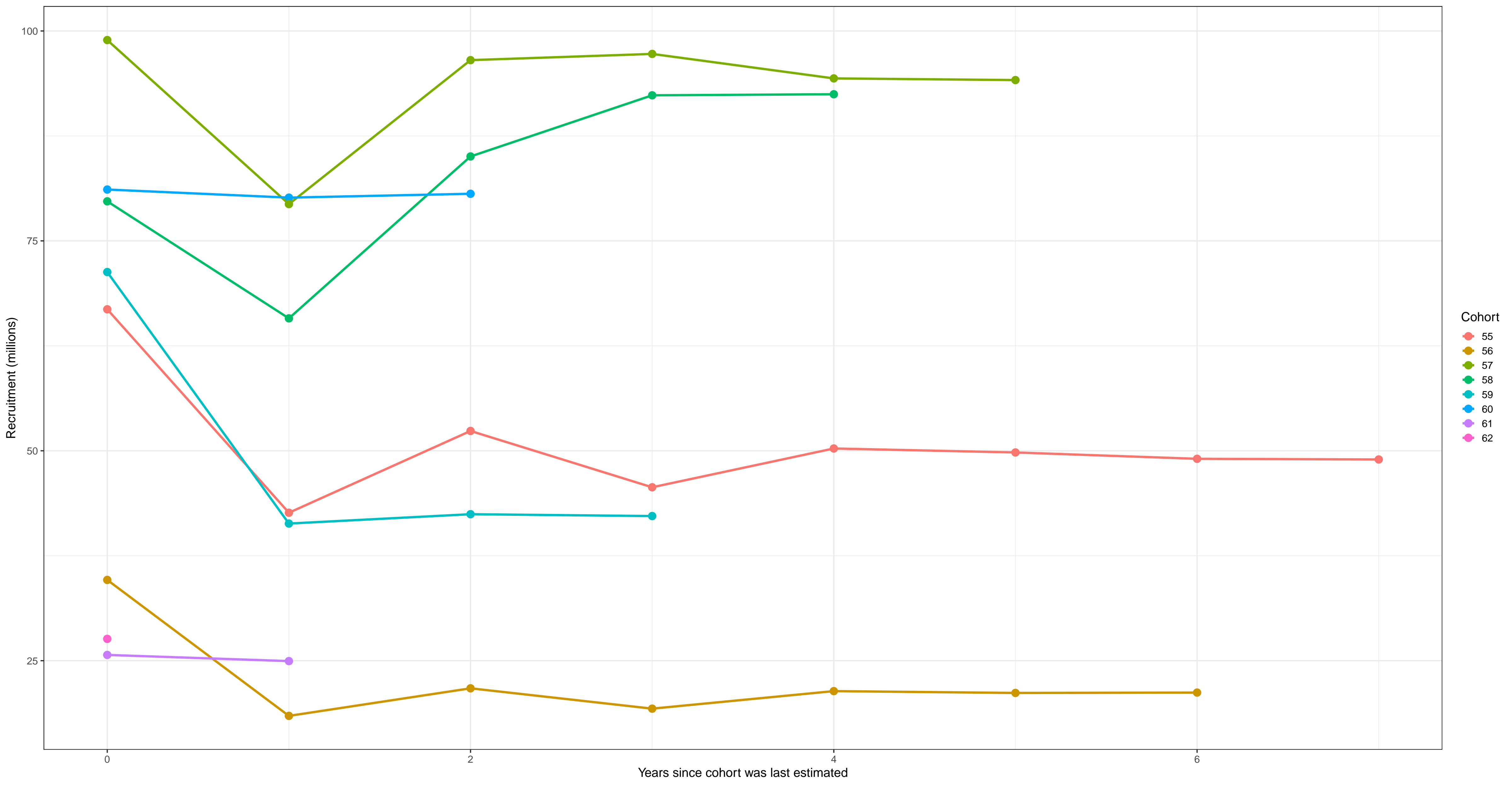




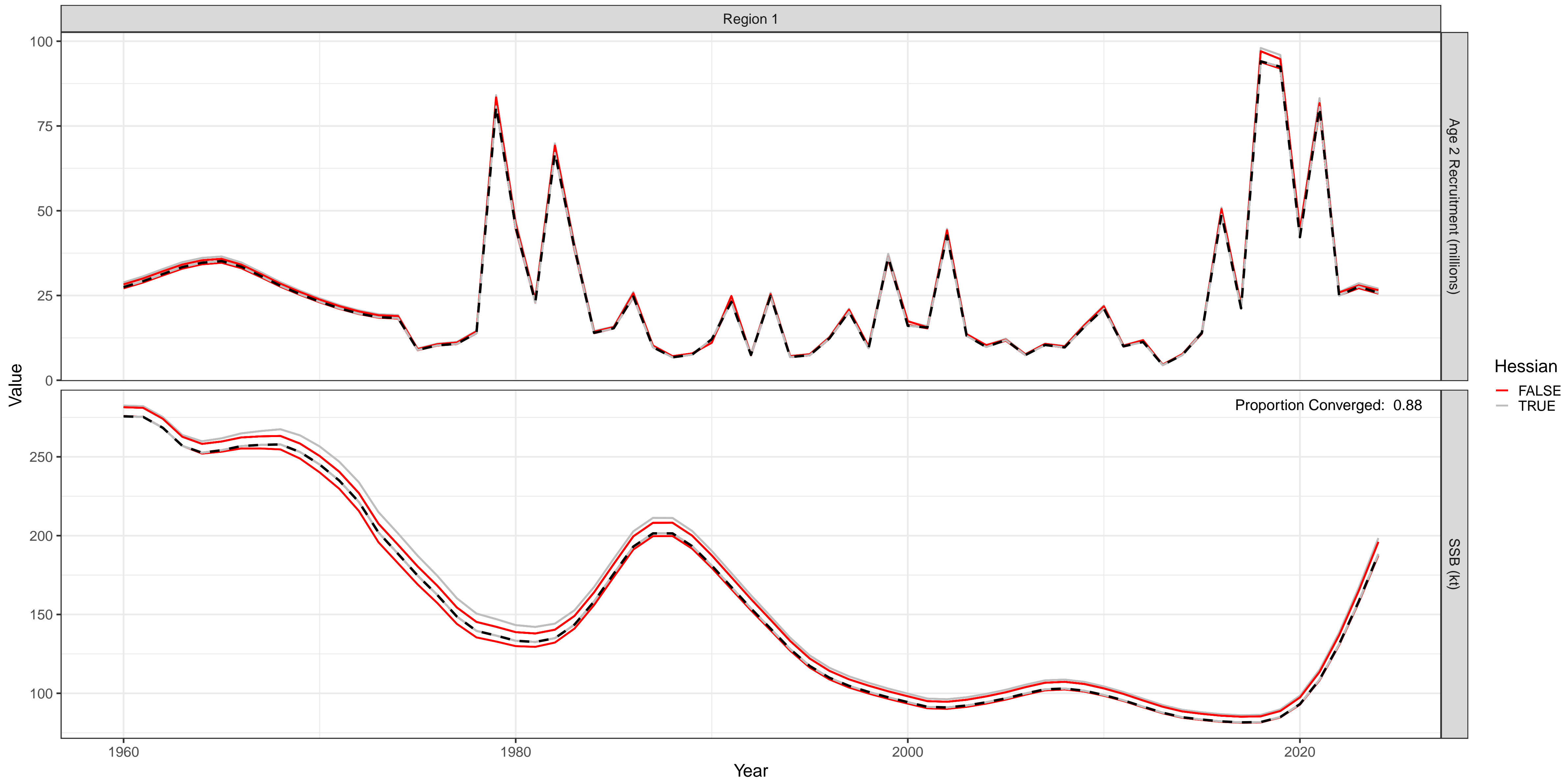


Peel 1 2 3 4 5 6 7

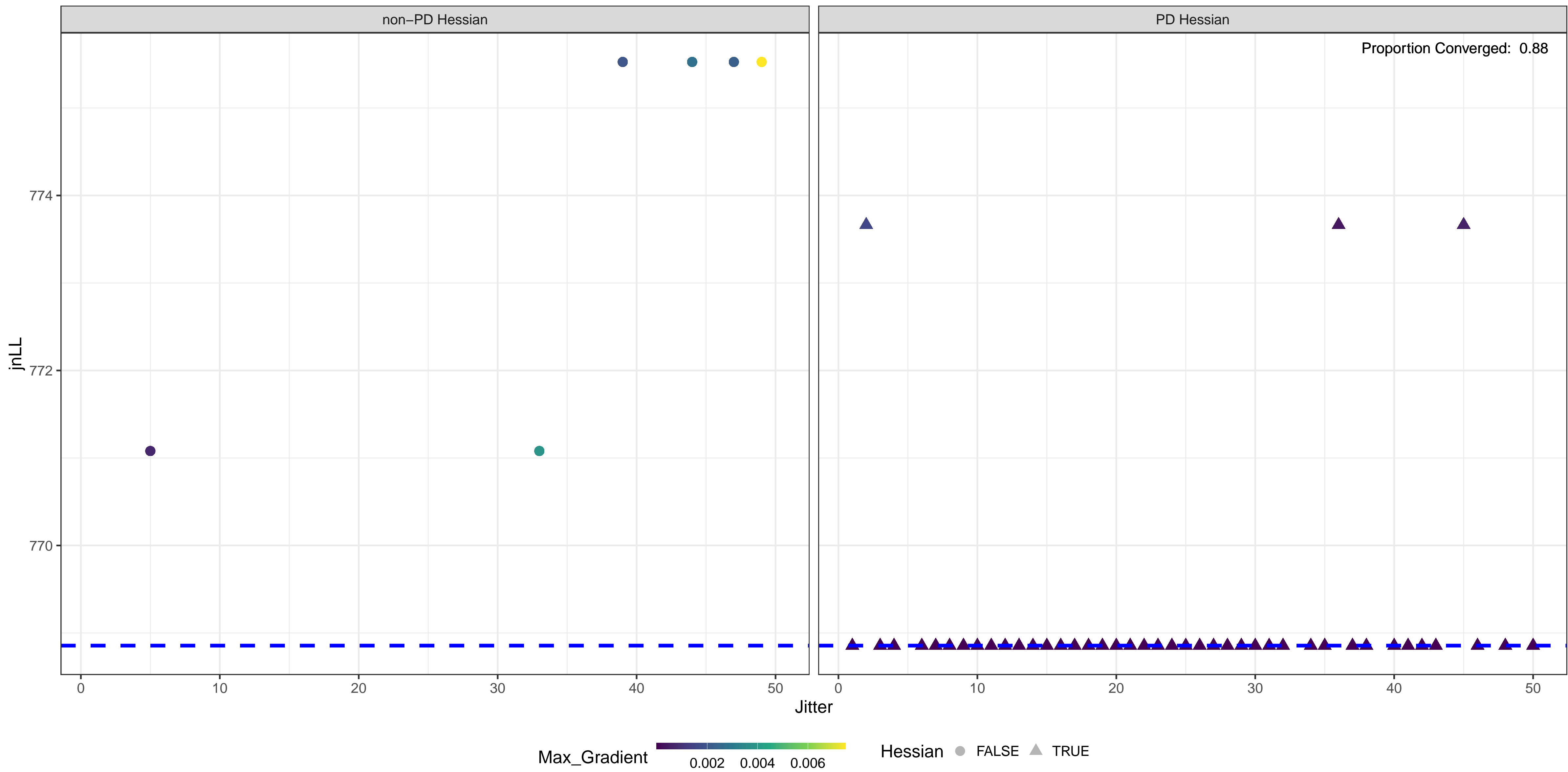




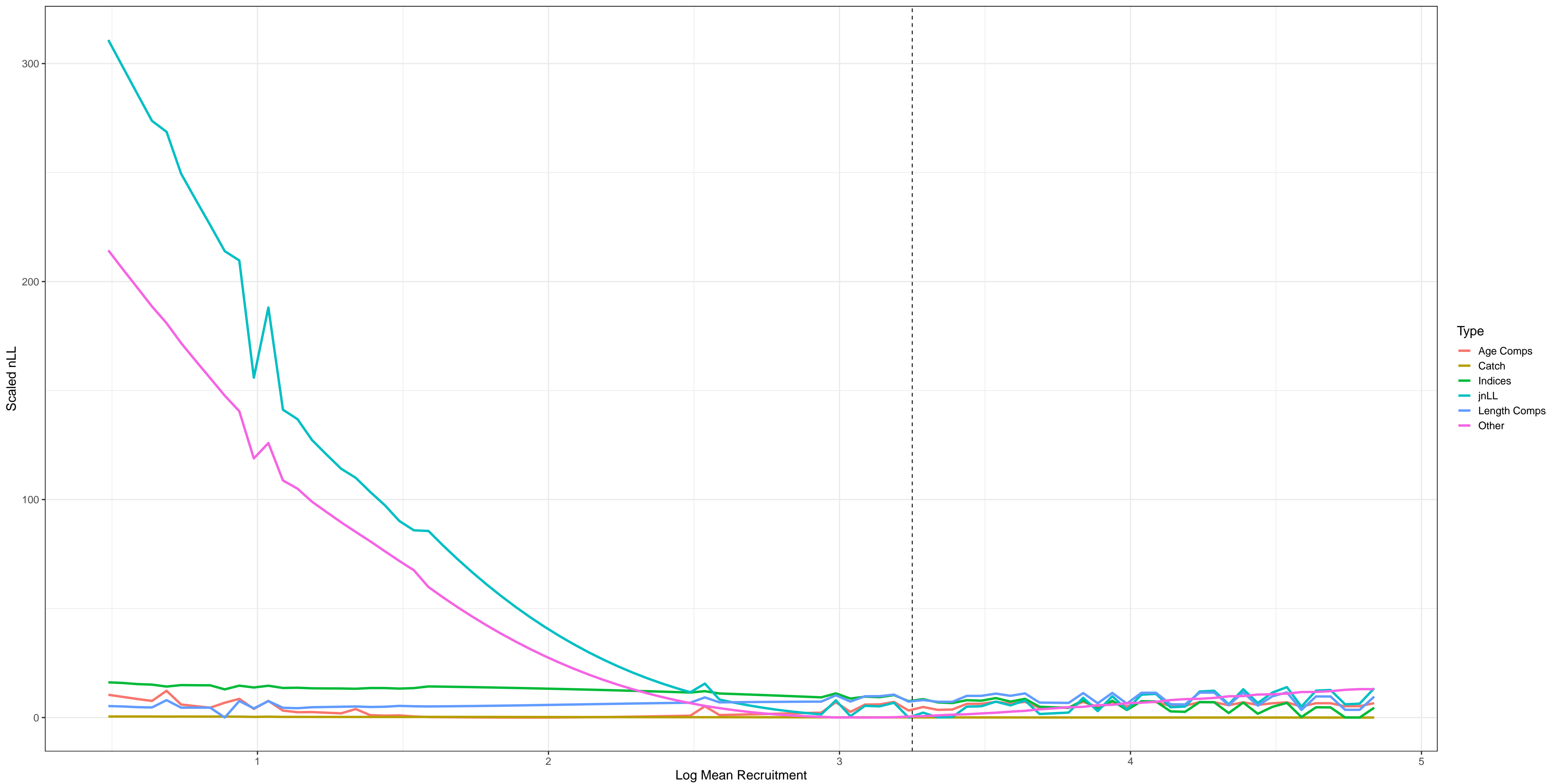
Jitter SSB and Recruitment



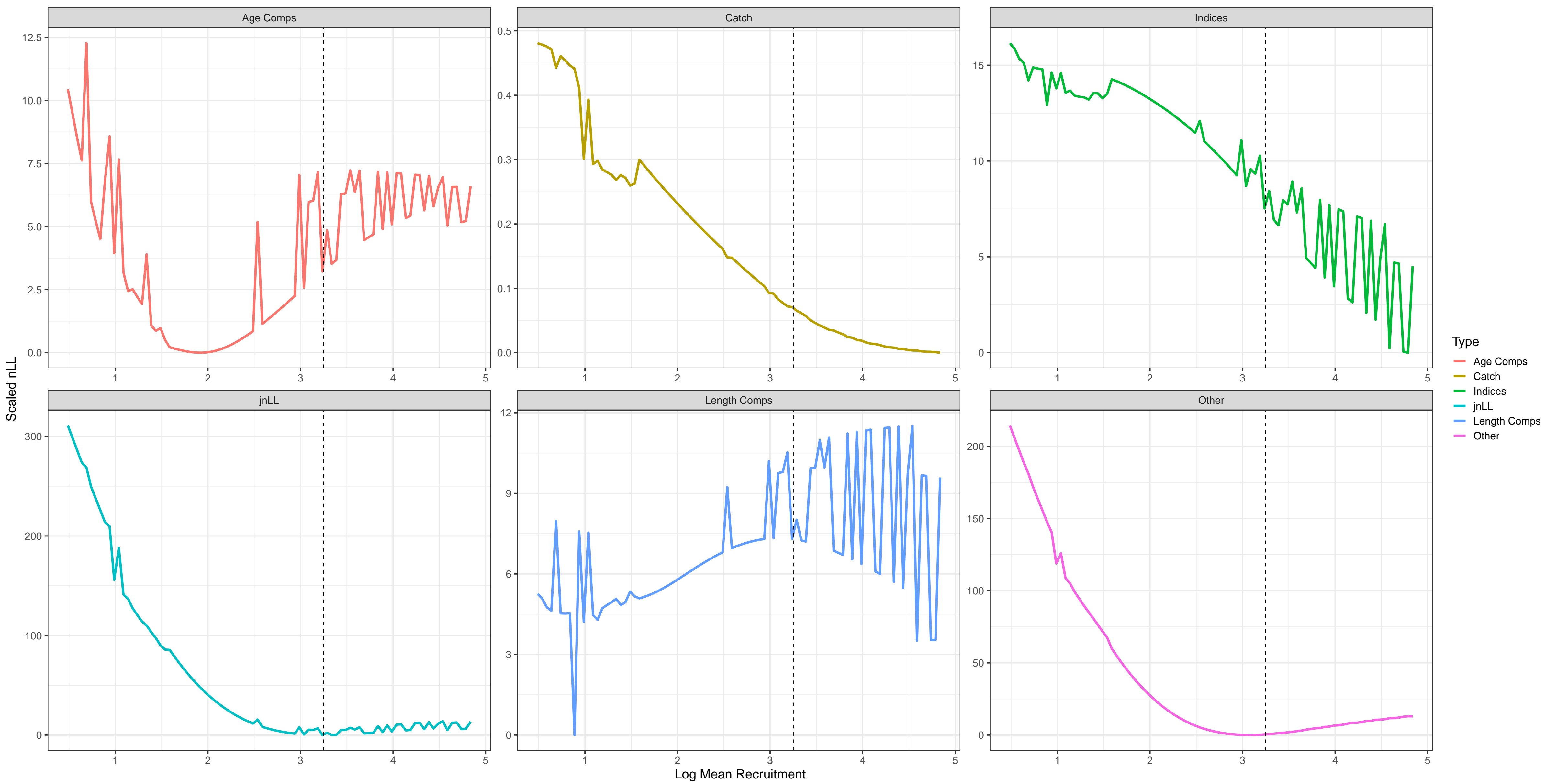
Jitter nLL and Convergence



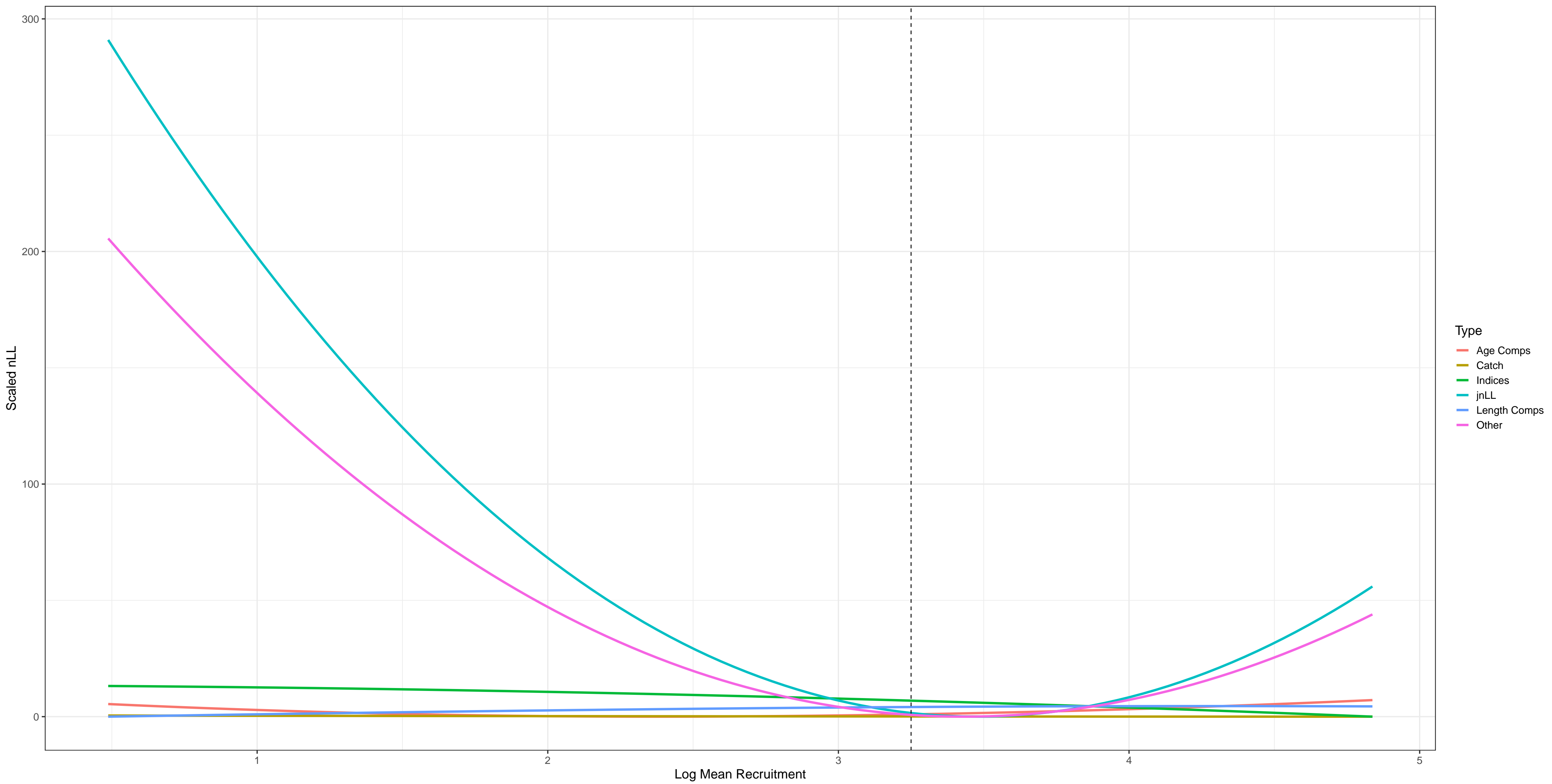
Profile Likelihood R0



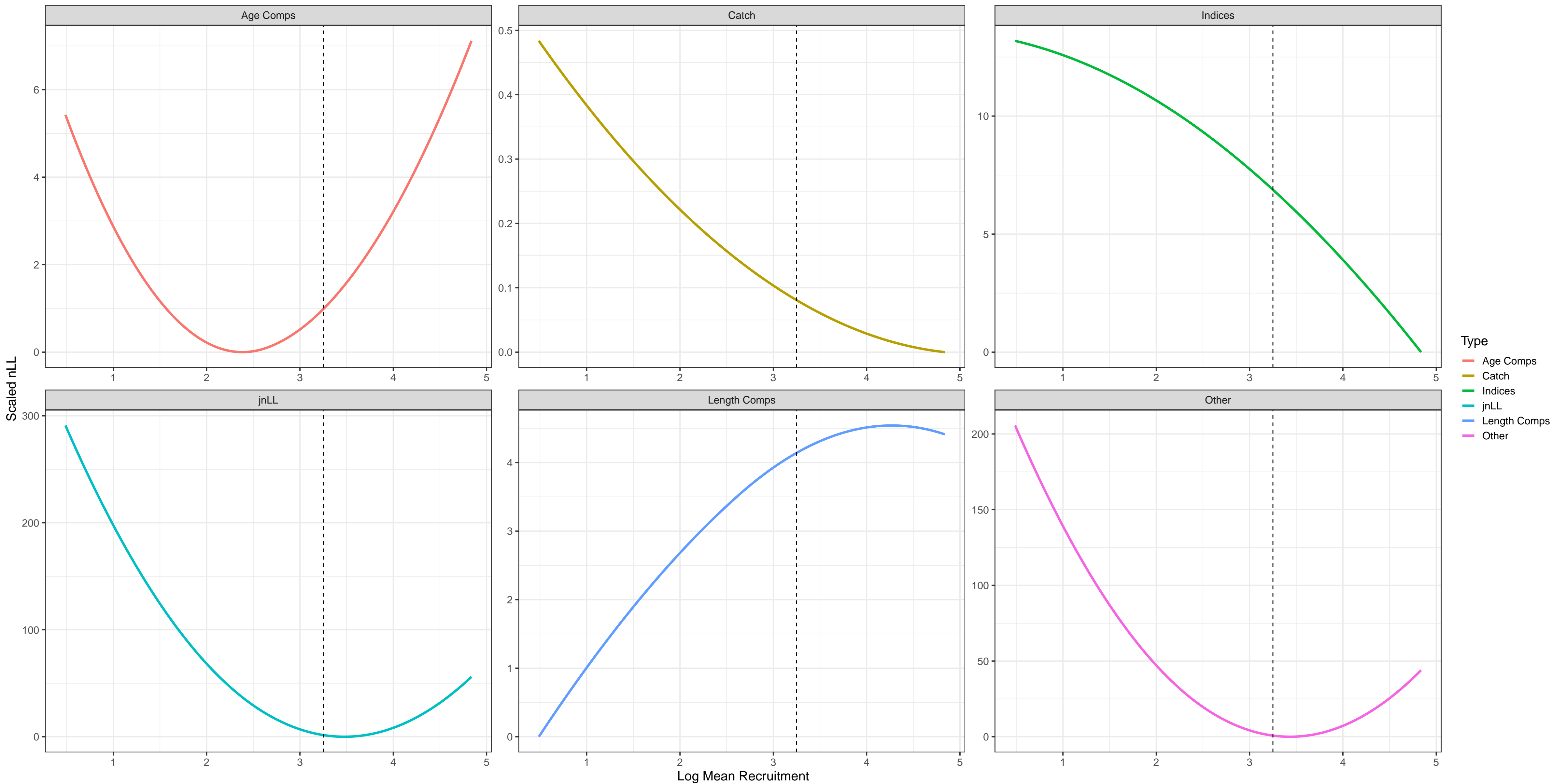
Profile Likelihood R0



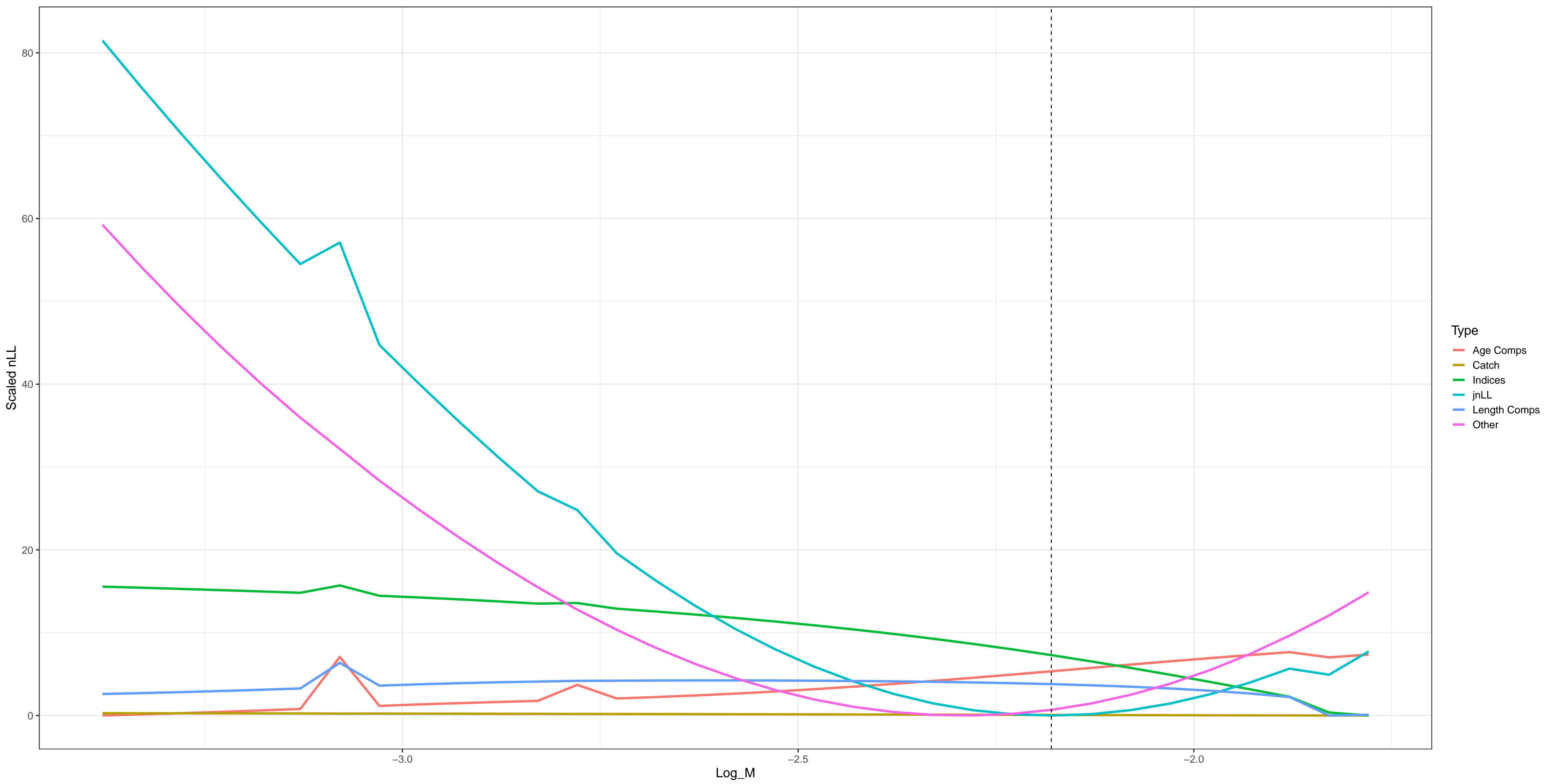
Profile Likelihood R0



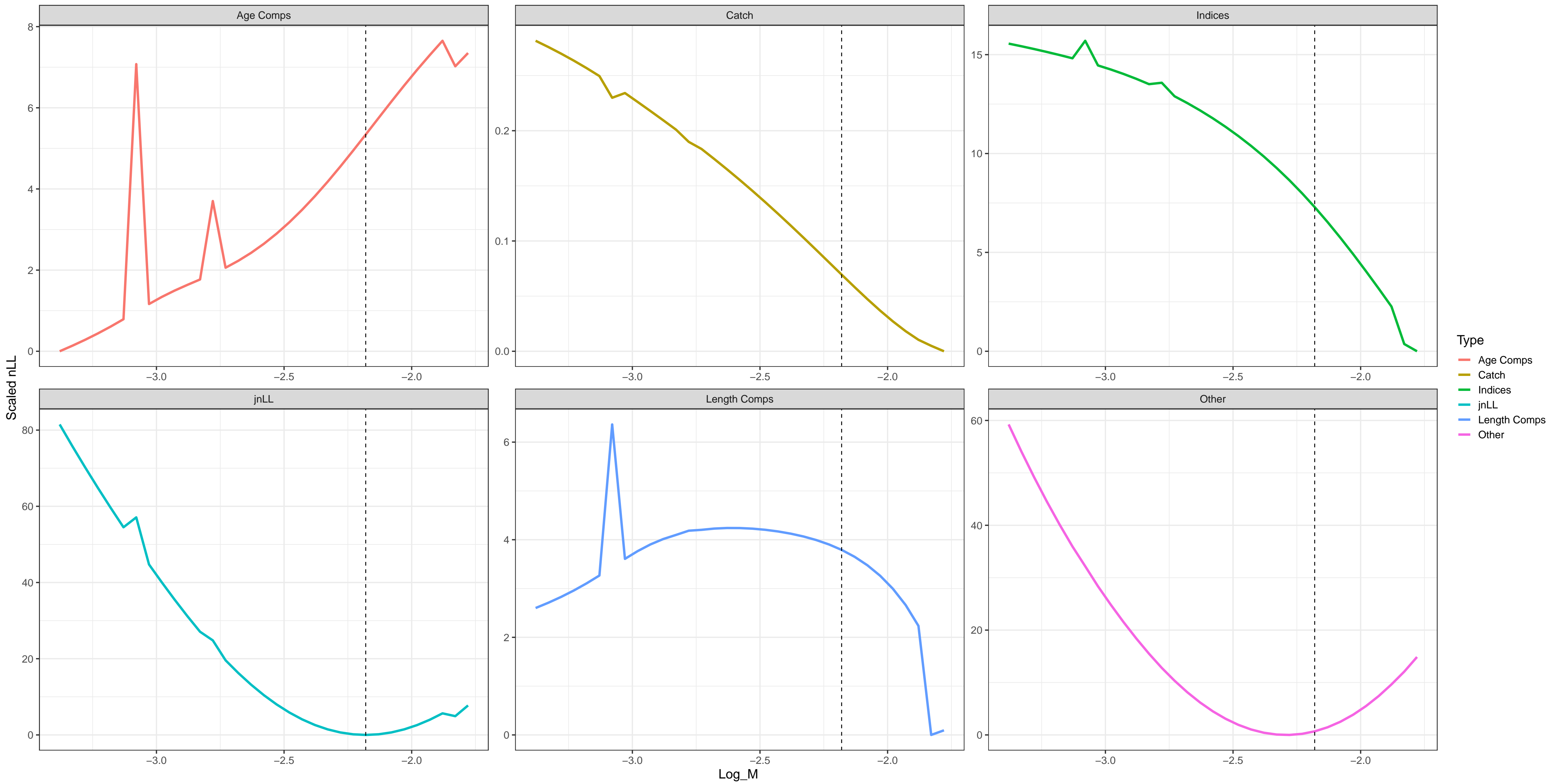
Profile Likelihood R0



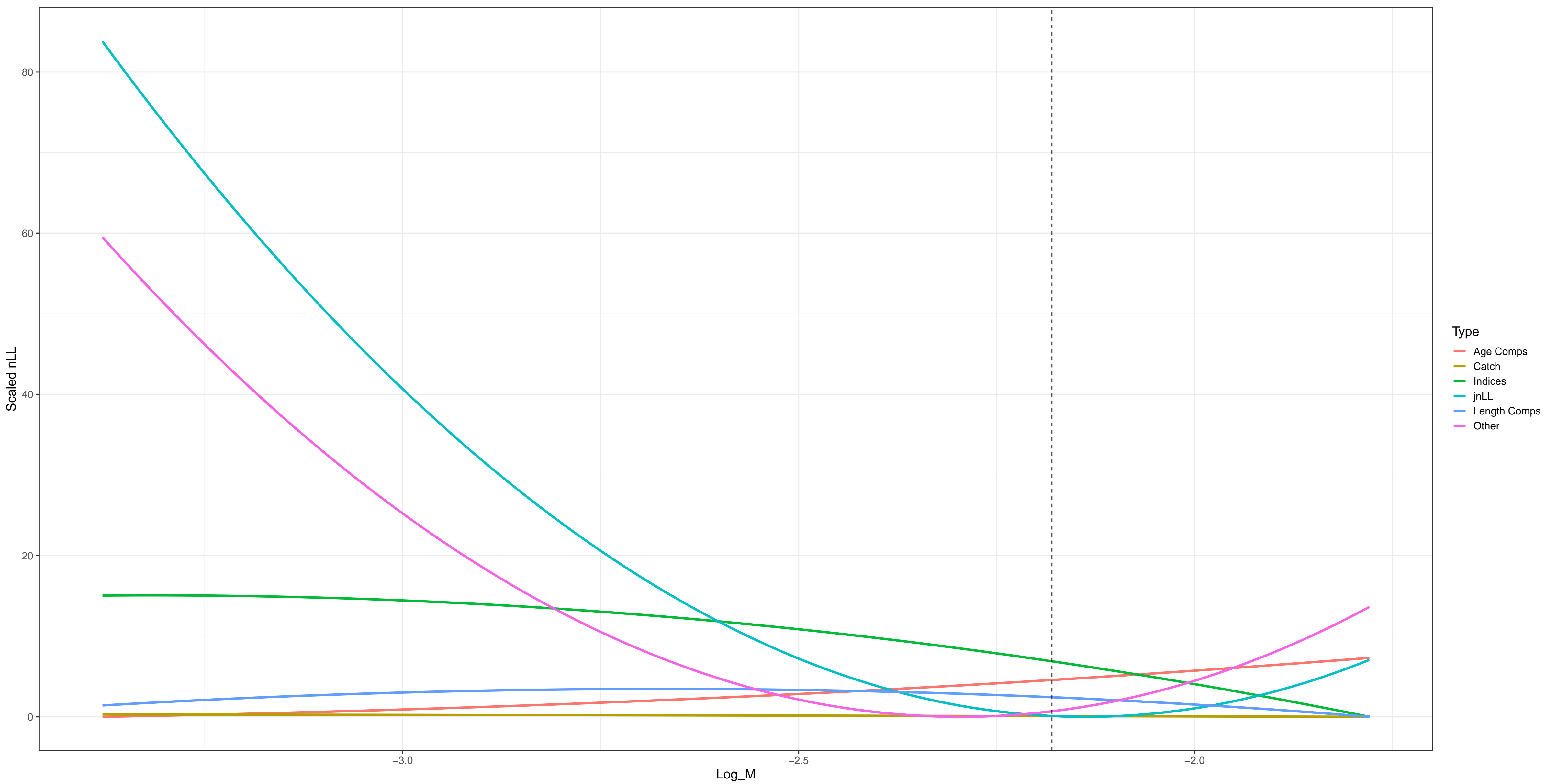
Profile Likelihood M



Profile Likelihood M



Profile Likelihood M



Profile Likelihood M

