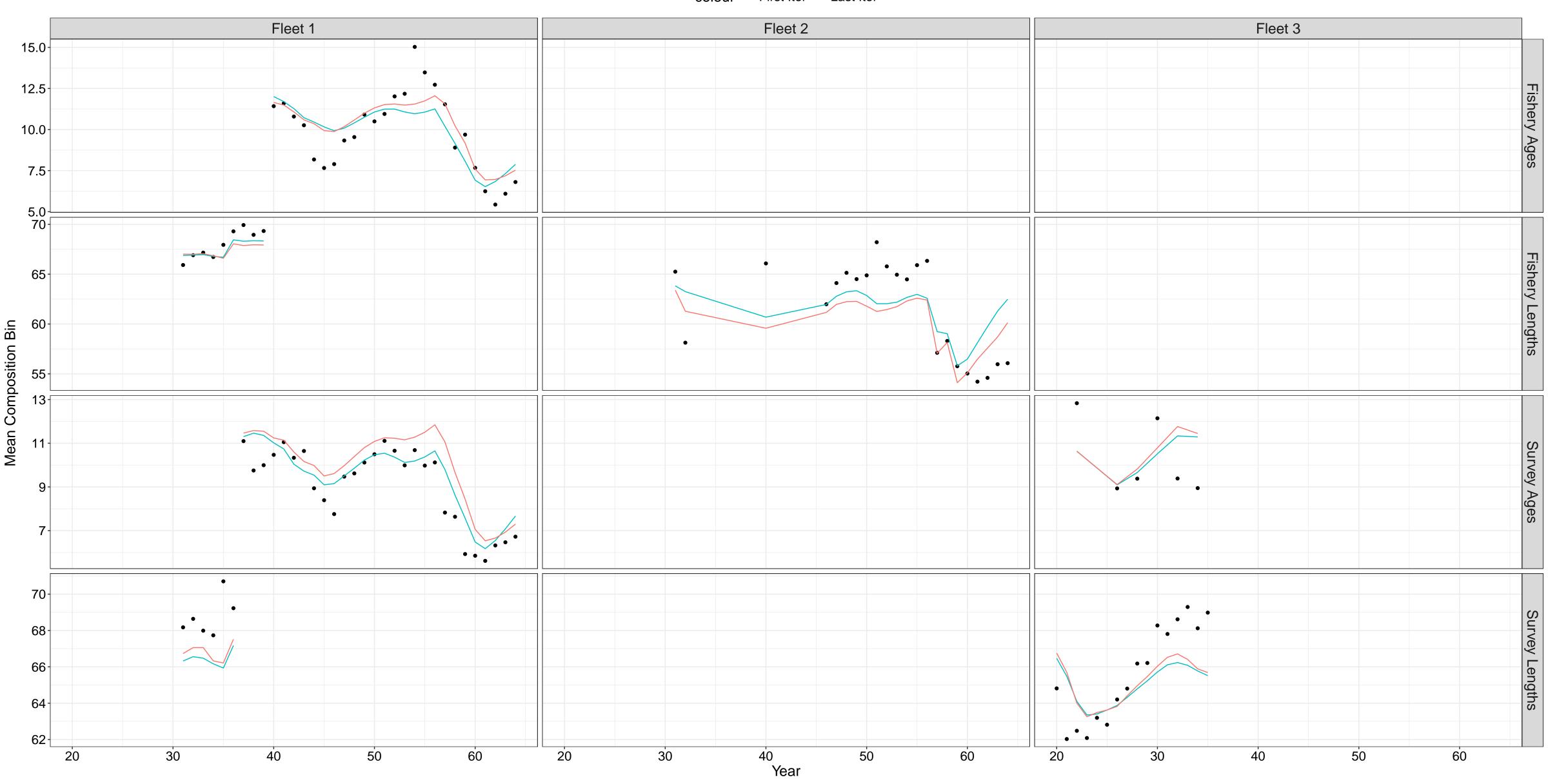
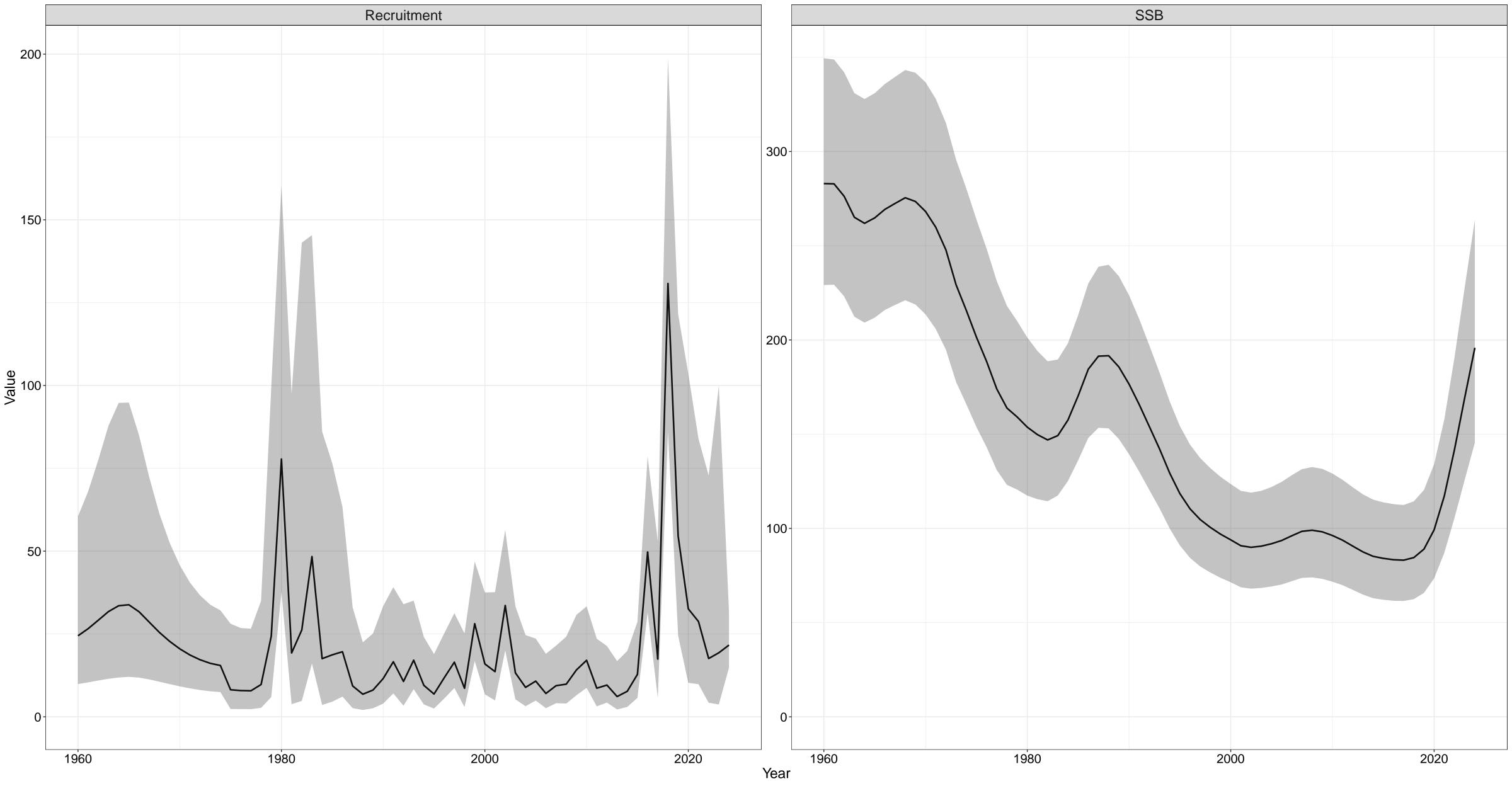
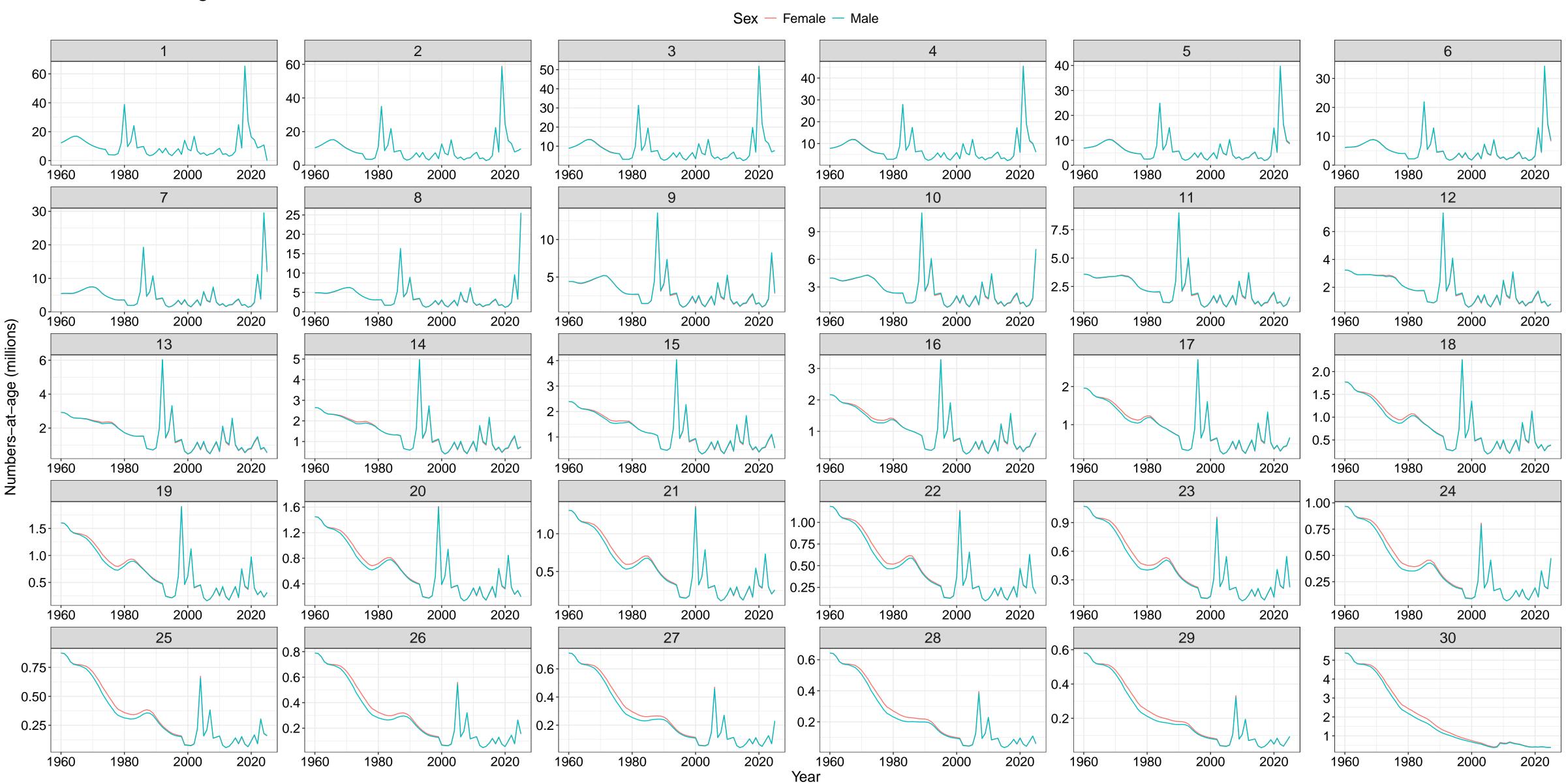
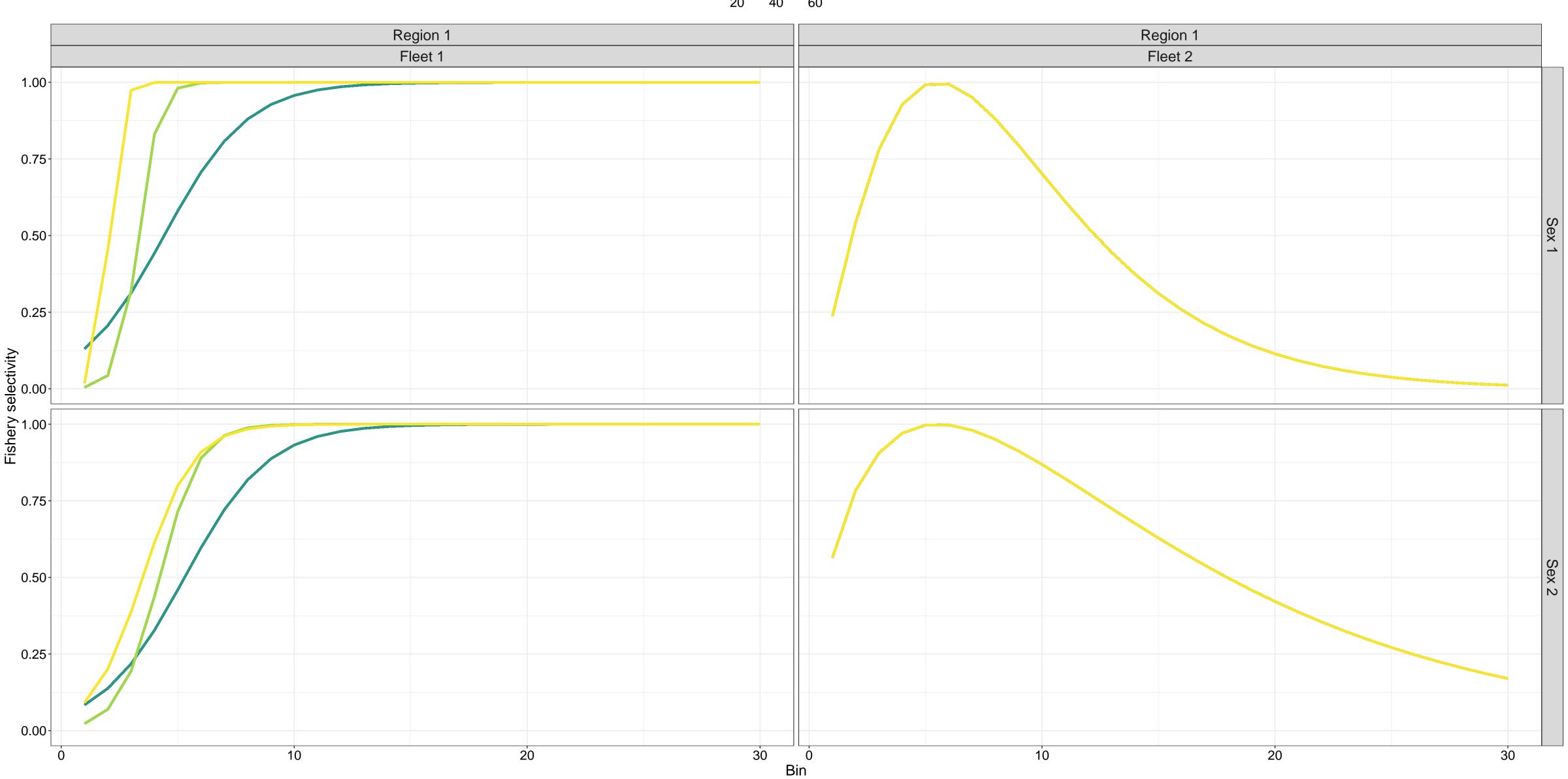
	Comp_Type	Init_Weight	Final_Weight
1	LLF_Age_F	0.8261073	0.7904403
2	LLF_Age_M	NA	NA
3	LLS_Age_F	3.7922454	3.6287084
4	LLS_Age_M	NA	NA
5	JPN_LLS_Age_F	1.3168111	0.6554892
6	JPN_LLS_Age_M	NA	NA
7	LLF_Len_F	4.1837057	6.1639871
8	LLF_Len_M	4.2696935	NA
9	TF_Len_F	0.3164859	0.2570364
10	TF_Len_M	0.2293966	NA
11	LLS_Len_F	1.4379202	2.5432862
12	LLS_Len_M	1.0705376	NA
13	JPN_LLS_Len_F	1.2777281	0.9866591
14	JPN_LLS_Len_M	0.8575195	NA

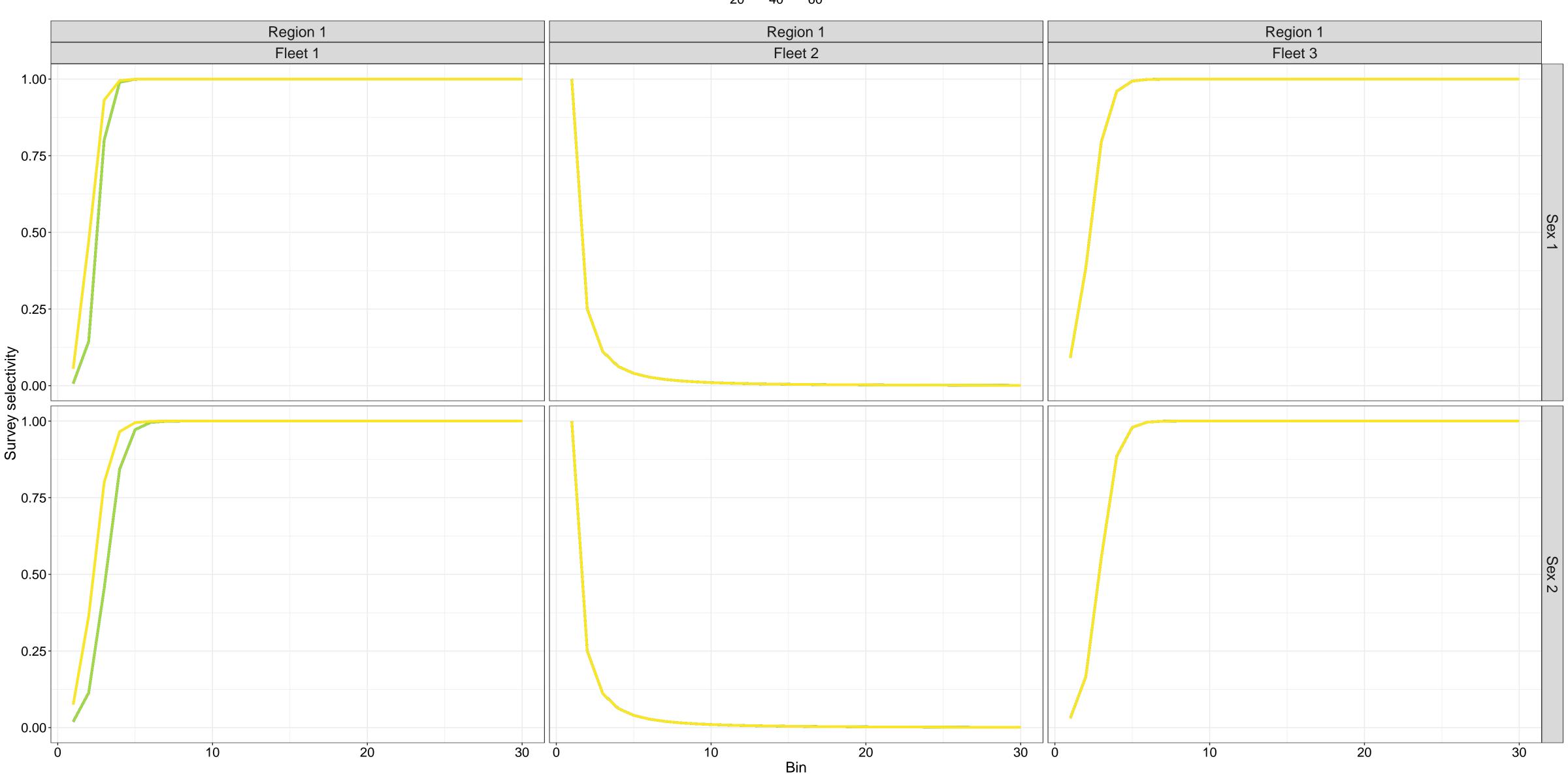


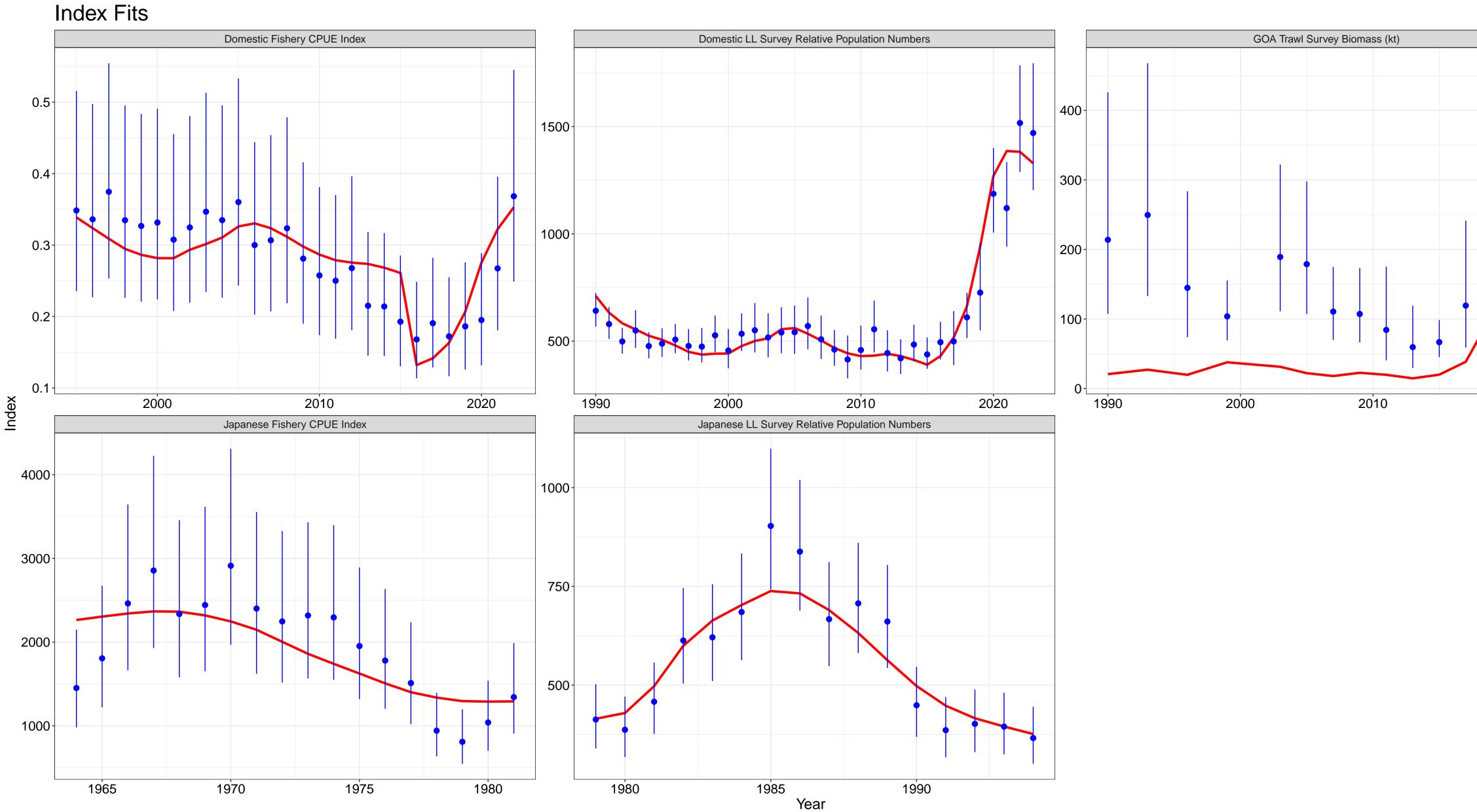
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	1	1	195.81364	0.0486337517744642	39.38514	127.04457	0.08309	1.5413	0.58534



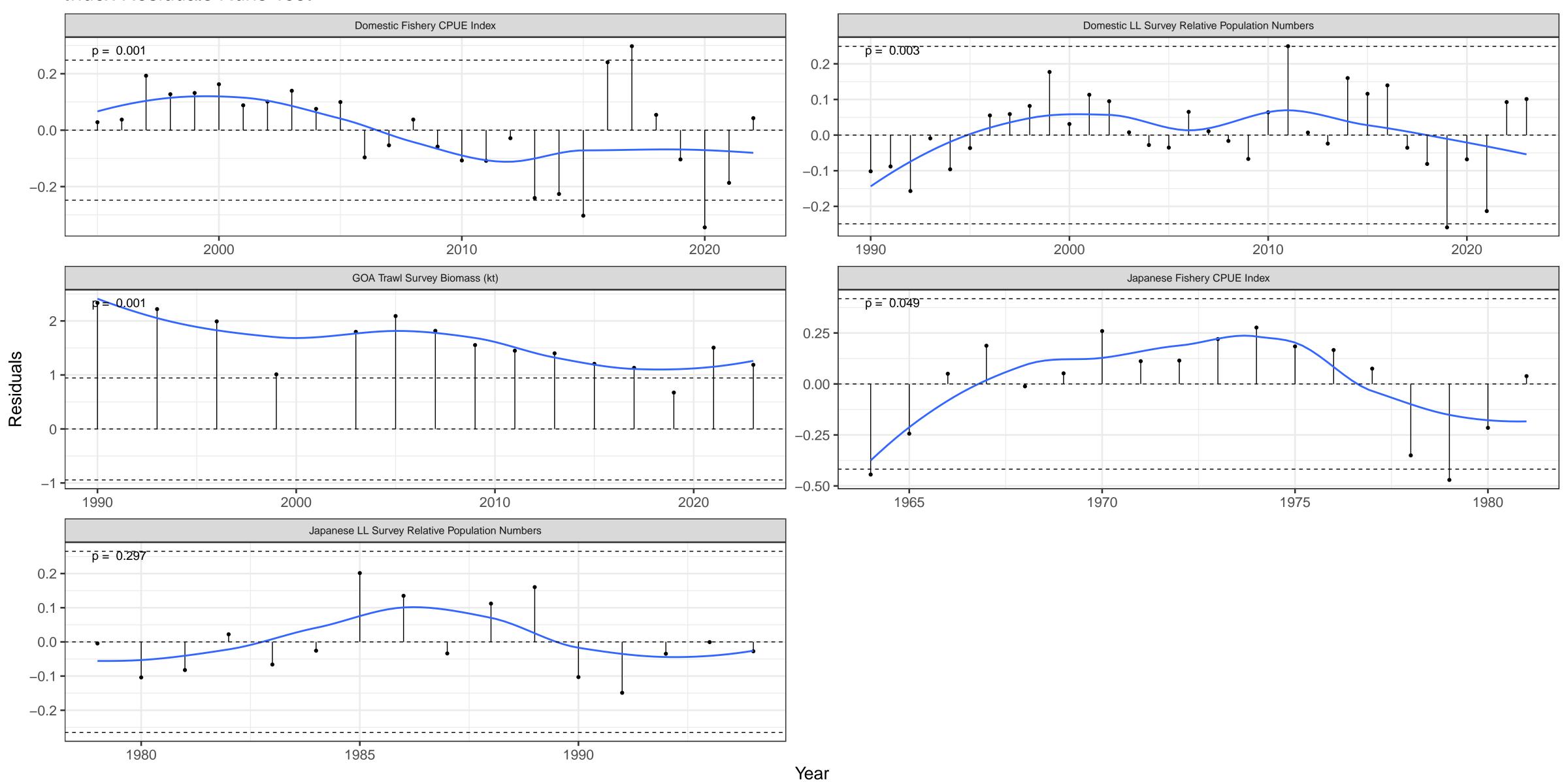


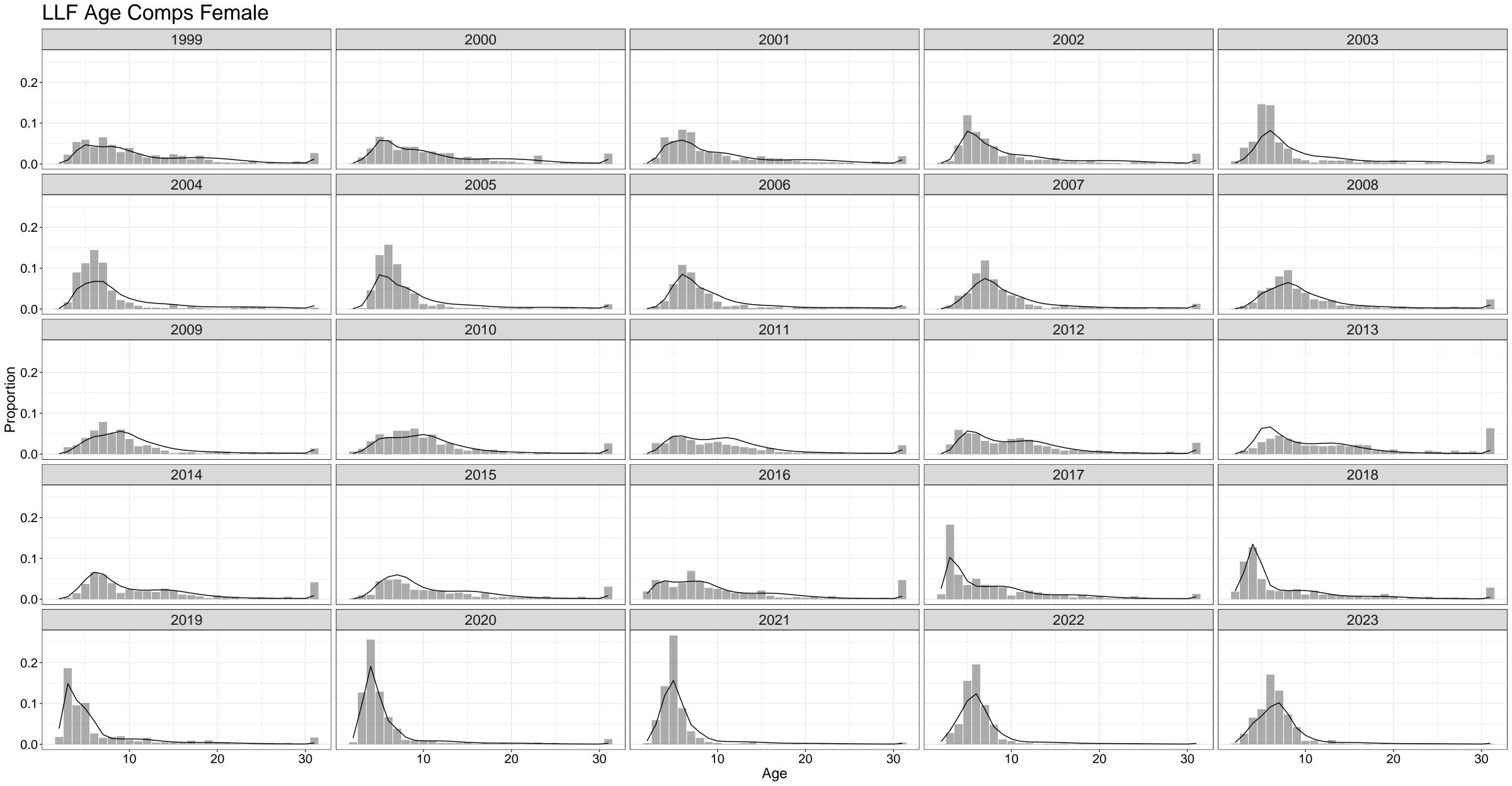






## Index Residuals Runs Test

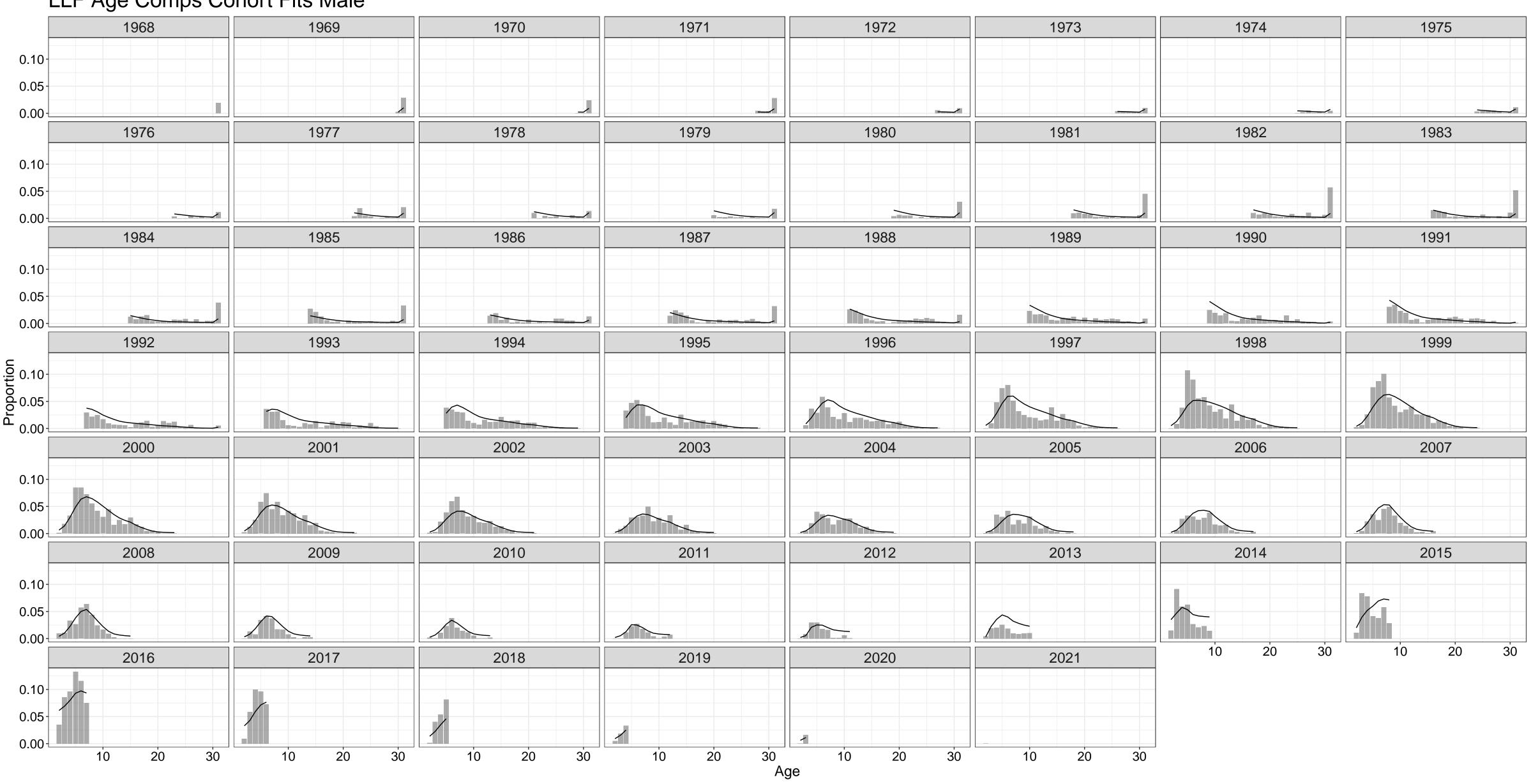




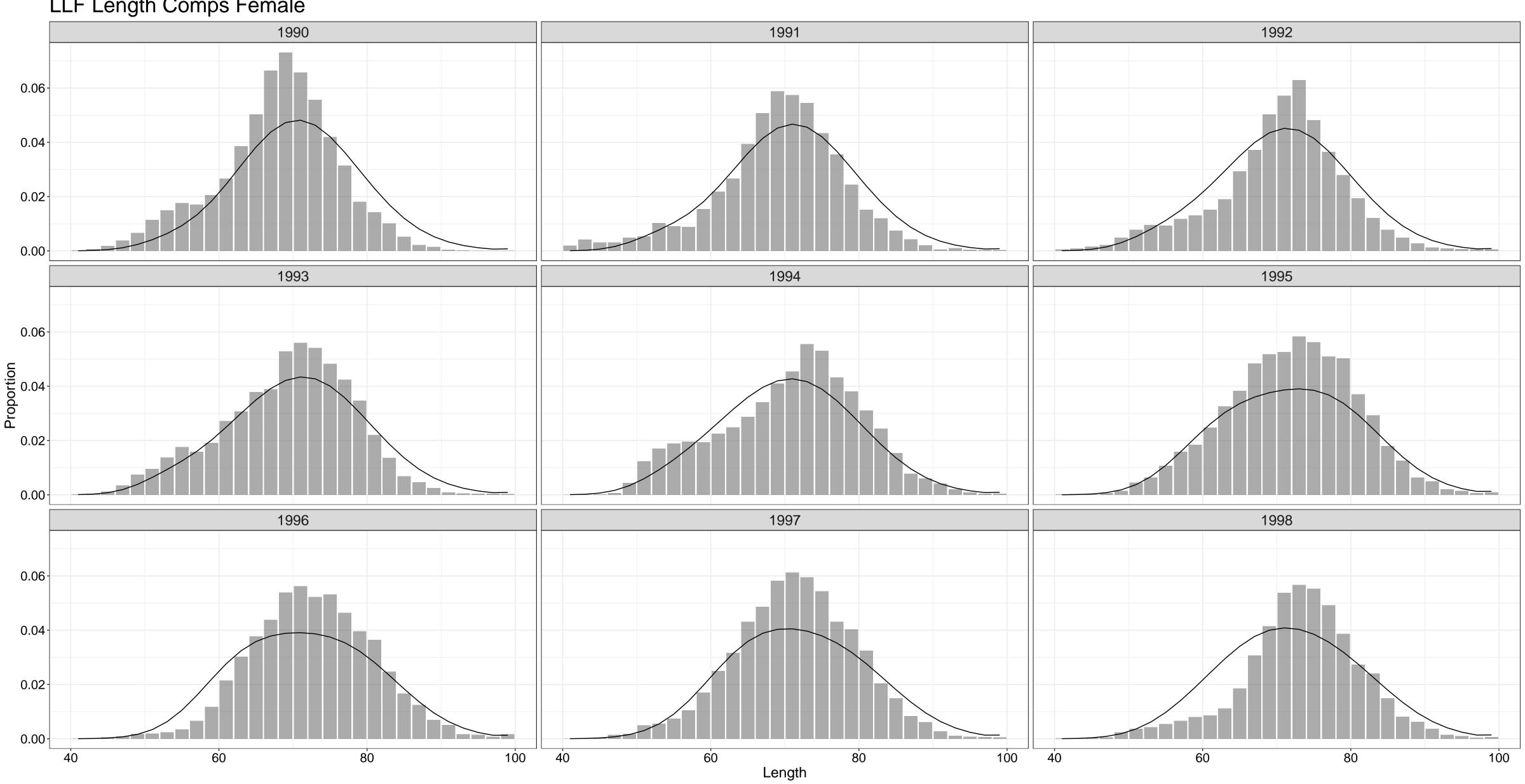
LLF Age Comps Cohort Fits Female 0.2 0.1 0.0 0.2 0.1 0.0 0.2 0.1 0.0 Proportion 0.2 0.2 0.1 0.0 0.2 0.1 0.0 0.2 0.1 Age

LLF Age Comps Male 0.10-0.05 0.10 0.05 0.00 Proportion 0.10-0.00 0.10-0.05-0.10 0.05 Age

LLF Age Comps Cohort Fits Male



LLF Length Comps Female 1990



LLF Length Comps Male 1990 1991 1992 0.075 0.050 0.025 0.000 1993 1994 1995 0.075 Proportion 0.020-0.025 0.000 1996 1997 1998 0.075 0.050 0.025 0.000 100 60 60 60 80 80 100 40 80 100

Length

40

TF Length Comps Female 0.09 0.06 0.03 0.00 0.09-0.06-0.03 0.00 Proportion 0.09-0.00 0.09-0.06 0.03-0.00 100 40 100 40 0.09-0.06-0.03 0.00 100 40 Length

TF Length Comps Male 0.15 0.10-0.05 0.00 0.15-0.10 0.05 0.00 Proportion 0.10-0.05-0.00 0.15 0.10 0.05 0.00 100 40 100 40 0.15 0.10-0.05 0.00 100 40 

Length

LLS Age Comps Female 0.25 0.20 0.15 0.10-0.05 0.00 0.25 0.20-0.15 0.10 0.05 0.00 0.25 O.20-0.15-0.10-0.05-0.00 0.25 0.20-0.15-0.10 0.05 0.00 0.25 0.20 0.15 0.10 0.05 0.00 Age

## LLS Age Comps Cohort Fit Female 0.25 0.20 0.15 0.10 0.05 0.00 0.25 0.20 0.15 0.10 0.05 0.00 0.25-0.20-0.15-0.10-0.05-0.00-0.25-0.20-0.15-0.00-0.00-0.25-0.20-0.15-0.10-0.05-0.00-0.25 0.20 0.15 0.10 0.05 0.00 0.25 0.20 0.15 0.10 0.05 0.00 0.25-0.20-0.15-0.10-0.05-0.00-Age

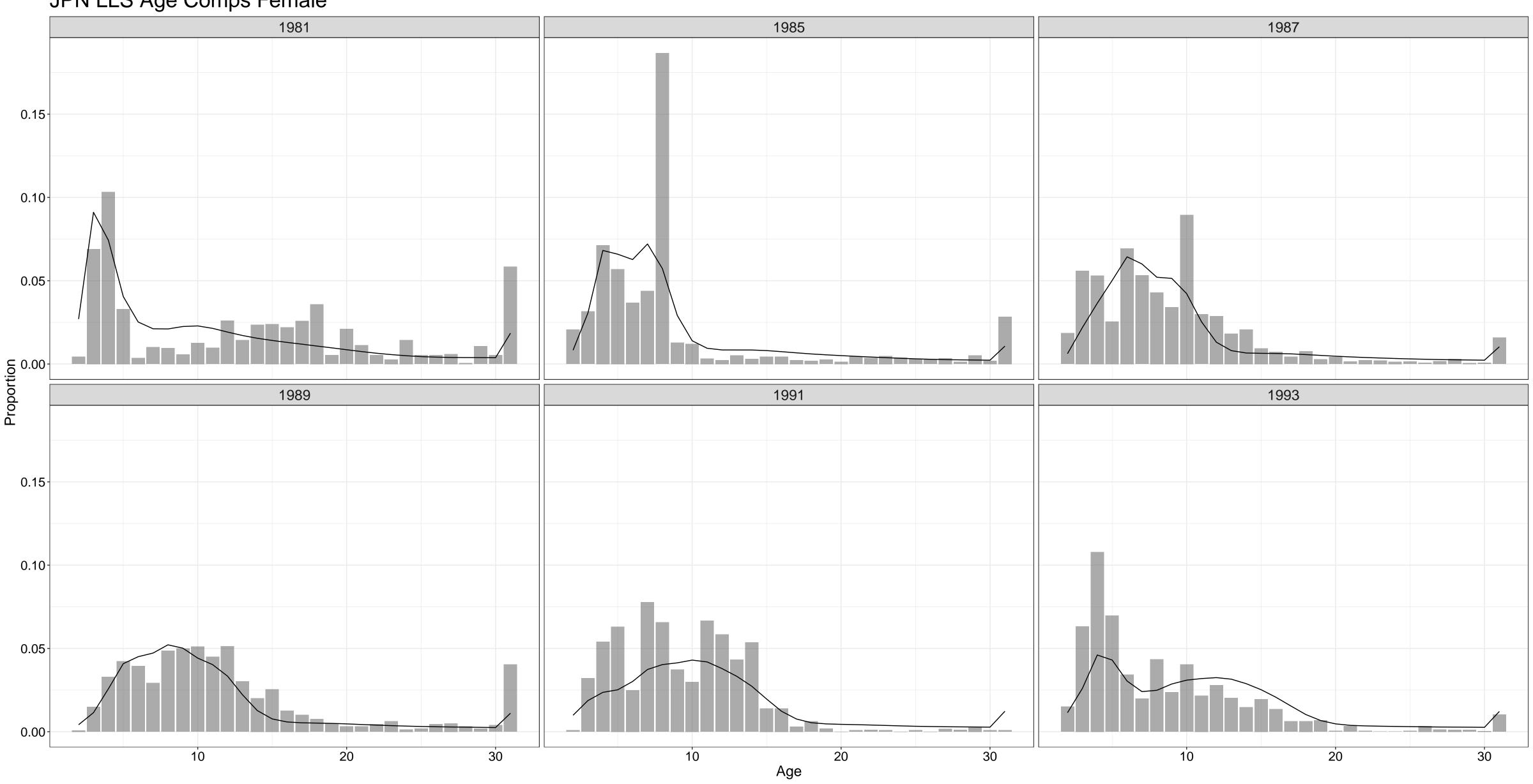
LLS Age Comps Male 0.15 0.10-0.05 0.00 0.15 0.10 0.05 0.00 0.15-Proportion 0.10-0.00 0.15 0.10-0.05 0.00 0.15 0.10 0.05 0.00 

Age

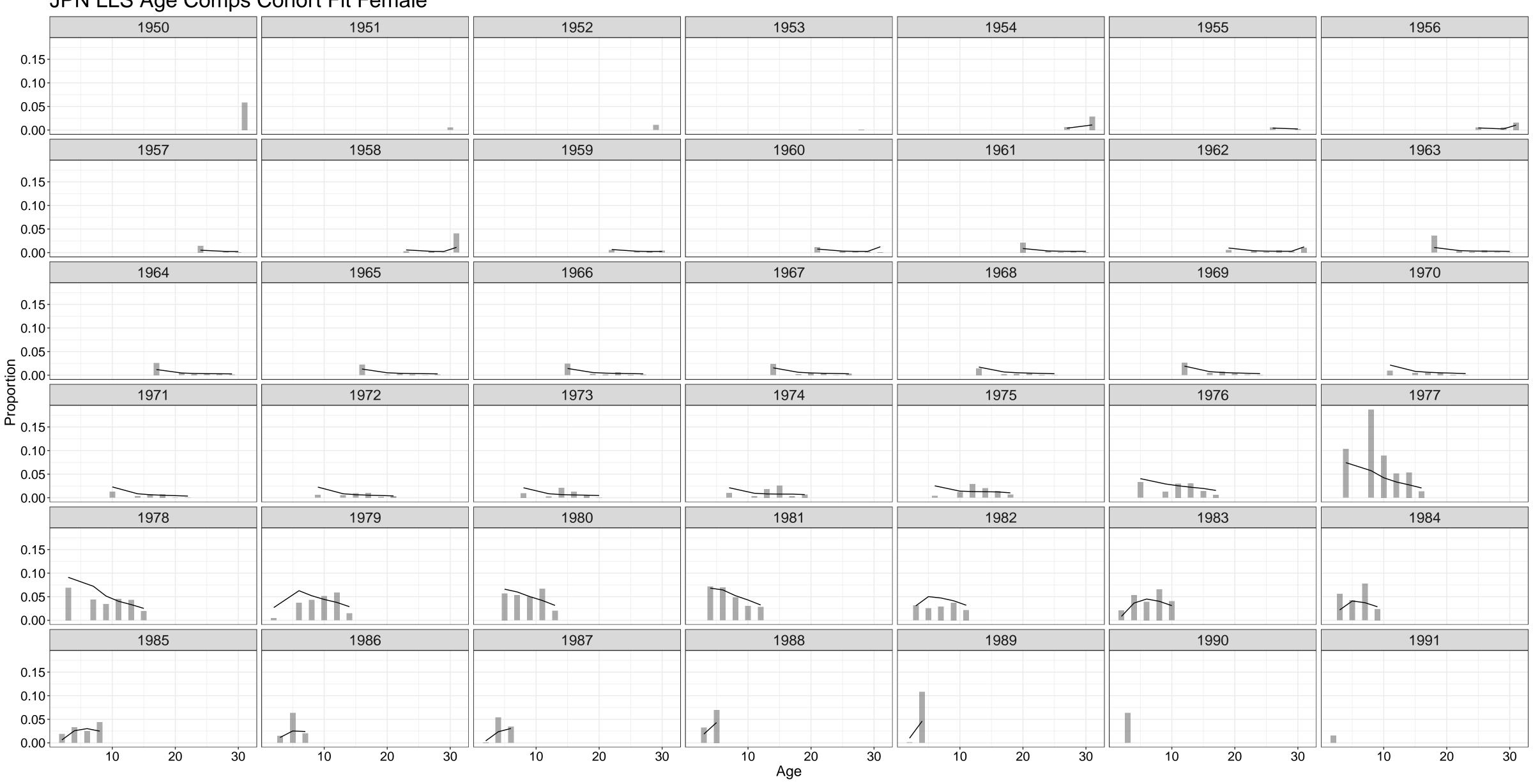
## LLS Age Comps Cohort Fit Male 0.15 0.10 0.05 0.00 0.15 0.10-0.05 0.00 0.15 0.10-0.05 \_\_\_ 0.00 0.15 0.10-Droportion 0.00-0.05 0.00 0.15 0.10-0.05 0.00 0.15 0.10 0.05 0.00 0.15 0.10 0.05

0.00

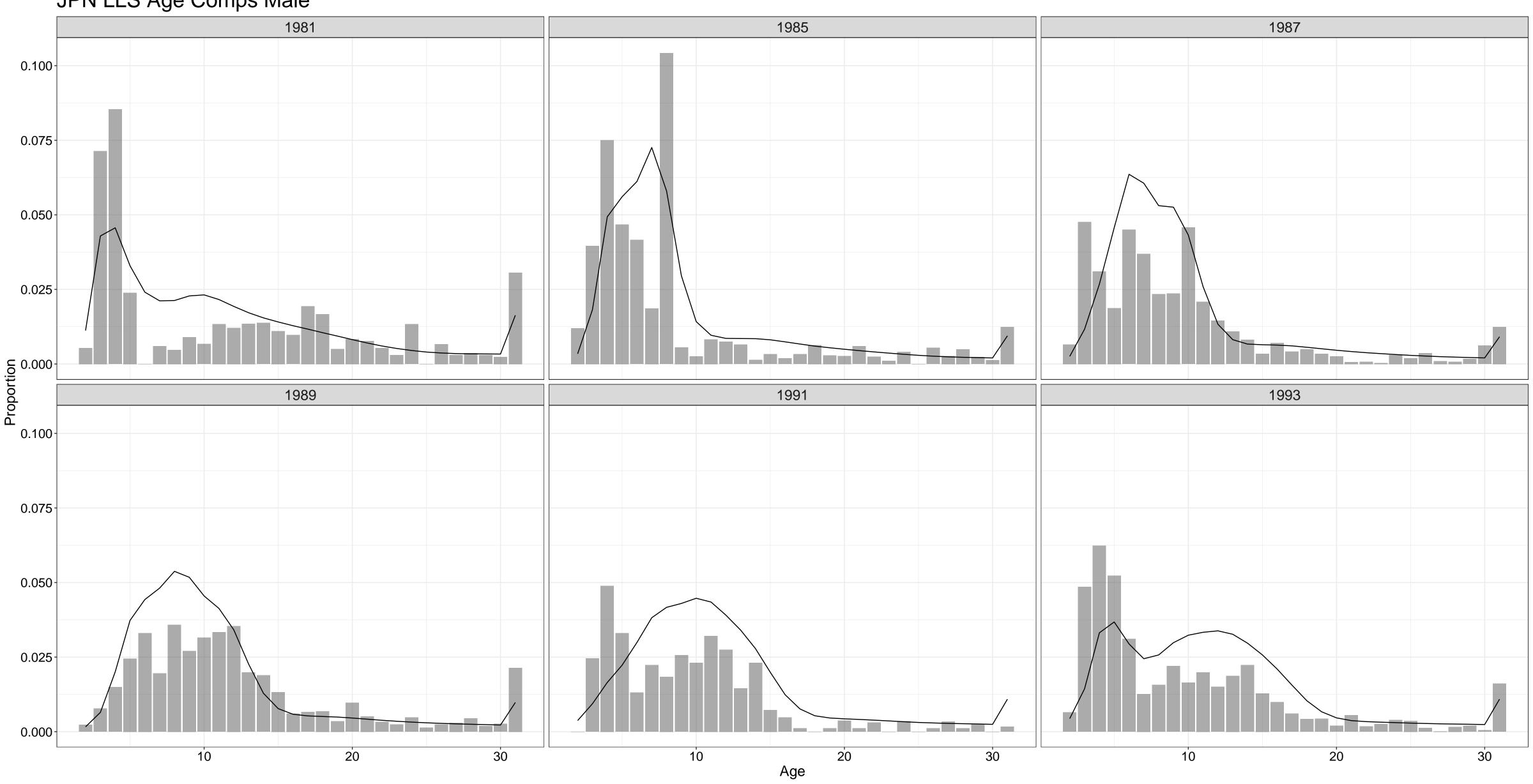
JPN LLS Age Comps Female



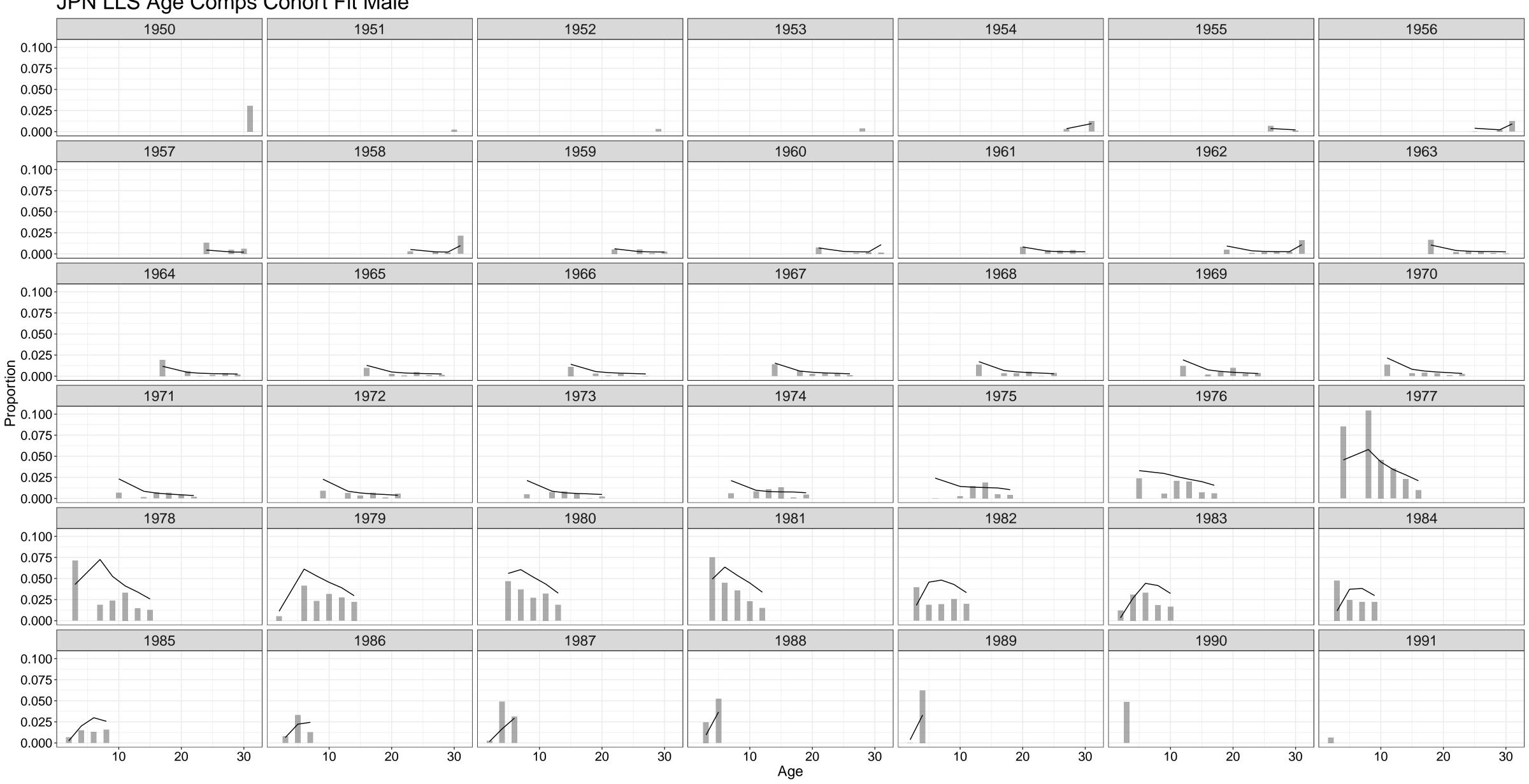
JPN LLS Age Comps Cohort Fit Female

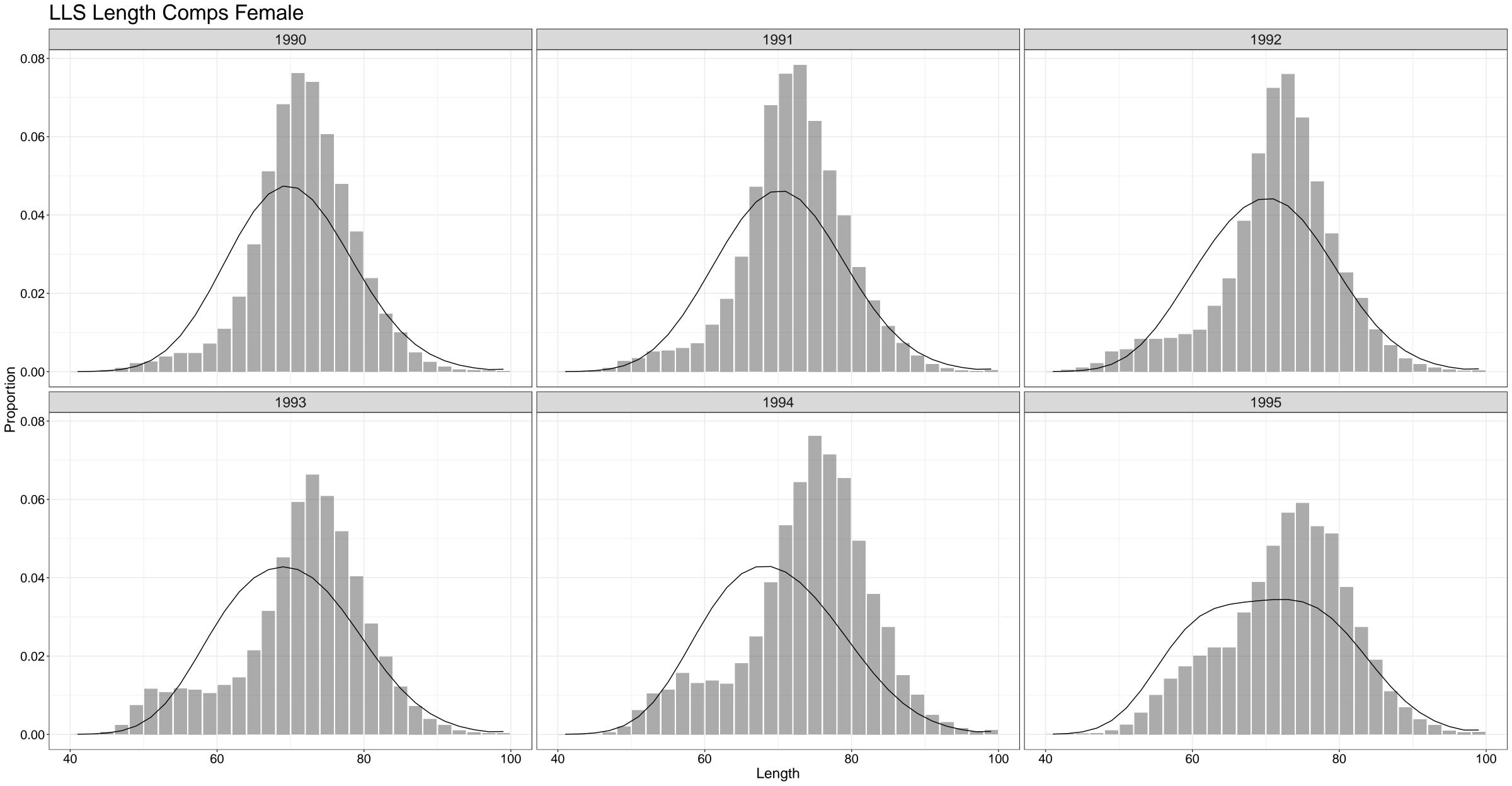


JPN LLS Age Comps Male



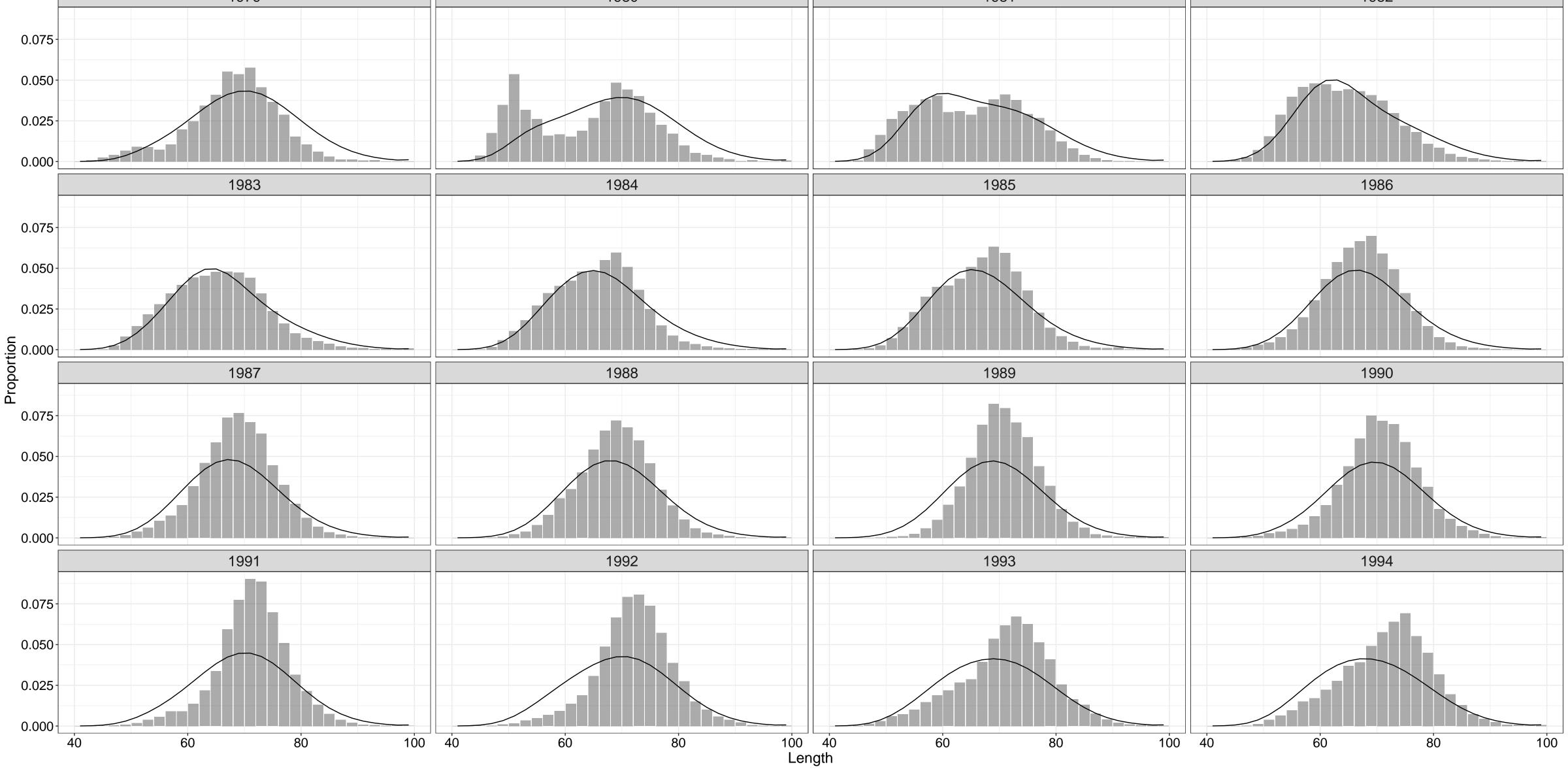
JPN LLS Age Comps Cohort Fit Male

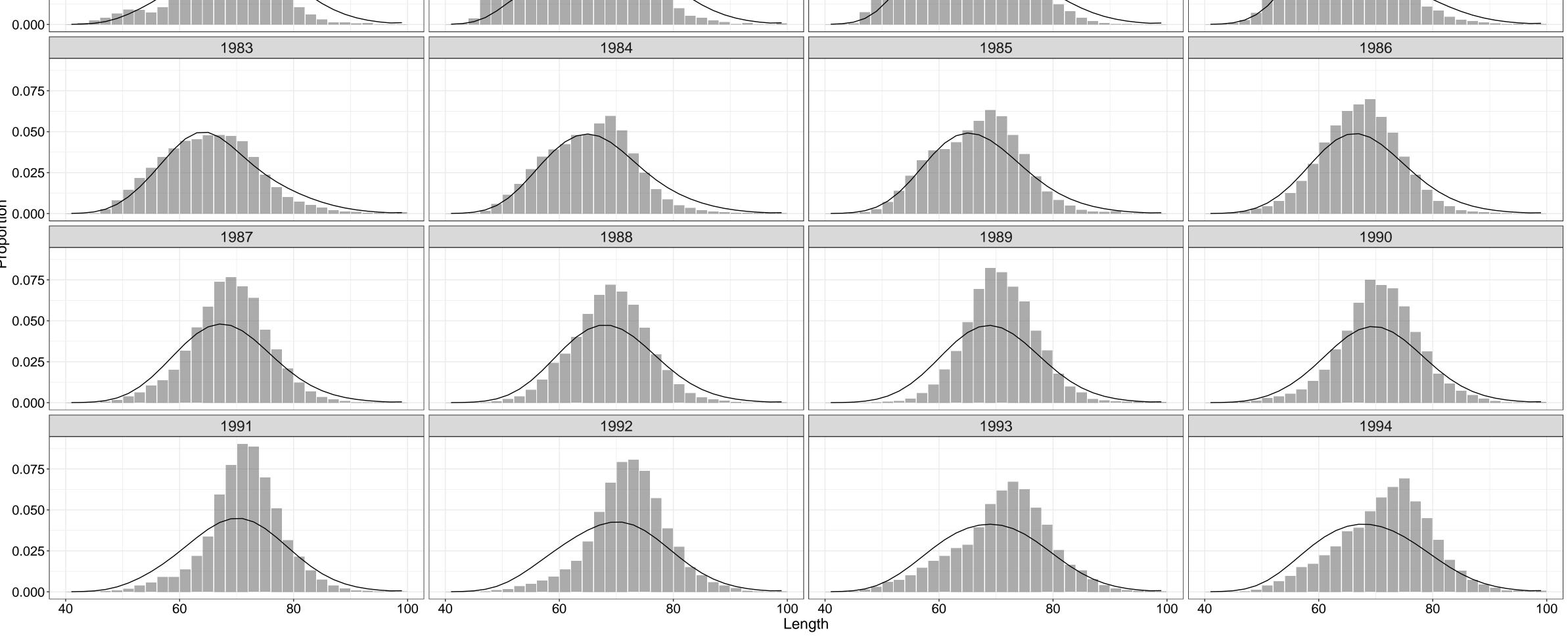




LLS Length Comps Male 0.075 0.050 0.025 Proportion 00000 0.075 0.050 0.025 0.000 Length

JPN LLS Length Comps Female 





JPN LLS Length Comps Male 1980 1981 1982 1979 0.08-0.06 0.04 0.02 0.00 1983 1984 1985 1986 0.08-0.06 0.04 0.02 1987 1988 1989 1990 0.06 0.04 0.02 0.00

