

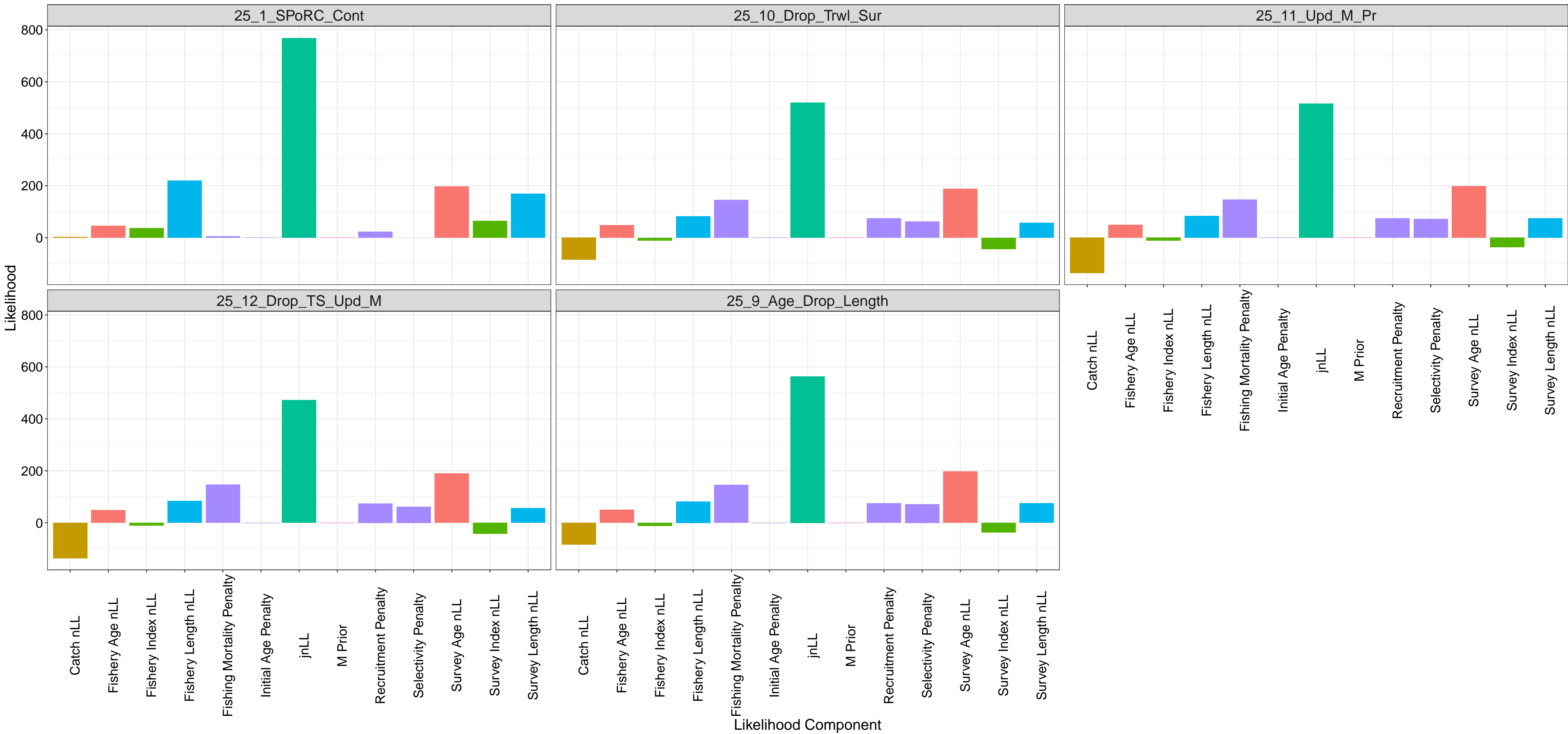
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	25_1_SPoRC_Cont	1	189.0804	0.04037044	49.68588	121.0229	0.08593	1.56235	0.46979
2	25_9_Age_Drop_Length	1	219.7952	0.04162539	50.00421	125.1969	0.09062	1.75560	0.45932
3	25_10_Drop_Trwl_Sur	1	241.1688	0.03880675	53.56695	129.4799	0.09093	1.86260	0.42678
4	25_11_Upd_M_Pr	1	178.3803	0.05147170	37.28203	123.4346	0.08281	1.44514	0.62155
5	25_12_Drop_TS_Upd_M	1	194.0907	0.04842486	39.55329	126.6058	0.08308	1.53303	0.58289

	Model	jnLL	M Prior	Recruitment Penalty	Catch nLL	Fishing Mortality Penalty	Survey Index nLL	Fishery Index nLL	Initial Age Penalty	Survey Age nLL	Fishery Age nLL	Survey Length nLL	Fishery Length nLL	Selectivity Penalty
1	25_1_SPoRC_Cont	768.8210	0.7838709	23.11463	3.688151	6.088752	64.49362	37.72432	0.1631310	197.0703	46.62799	169.03957	220.02667	NA
2	25_9_Age_Drop_Length	563.6117	−0.4228482	75.25805	−84.405651	145.615963	−37.66538	−11.53491	0.1953826	197.1234	49.75360	75.57116	82.03714	72.08573
3	25_10_Drop_Trwl_Sur	520.1376	−0.3317710	74.71358	−84.485935	145.654711	−43.49581	−10.91950	0.1927378	188.4512	48.43536	57.46386	82.53831	61.92076
4	25_11_Upd_M_Pr	515.6982	−0.3081874	75.25098	−136.167056	146.946437	−36.65904	−11.54096	0.2849454	198.4586	49.73668	74.45816	83.22979	72.00785
5	25_12_Drop_TS_Upd_M	471.8339	−0.2370536	74.67764	−136.218750	146.995480	−42.64644	−10.95465	0.2847093	189.5774	48.50805	56.40044	83.61324	61.83381

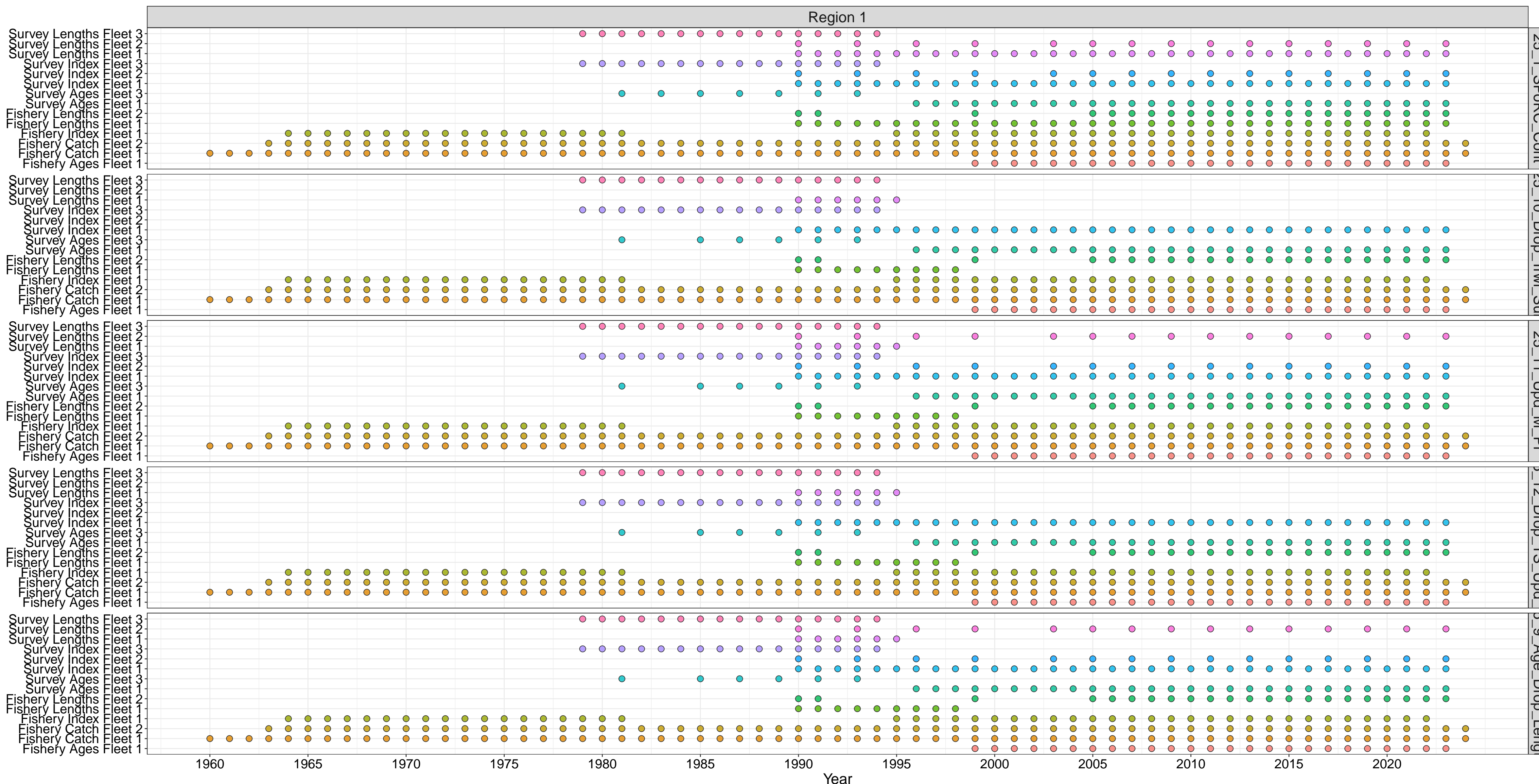
Negative Log-Likelihood

Type

Age	Index	Length	Prior
Catch	jnLL	Penalty	

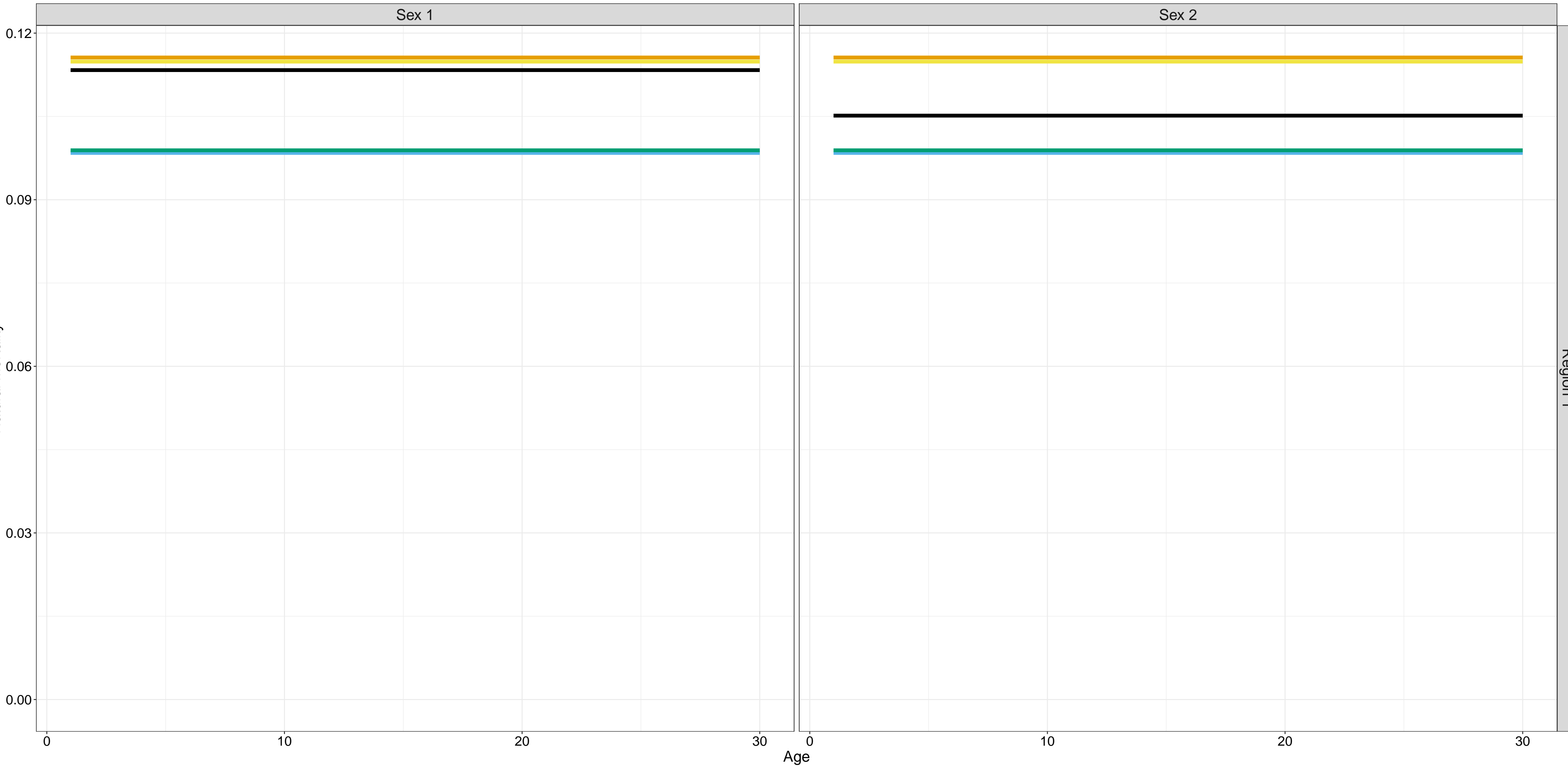


Data



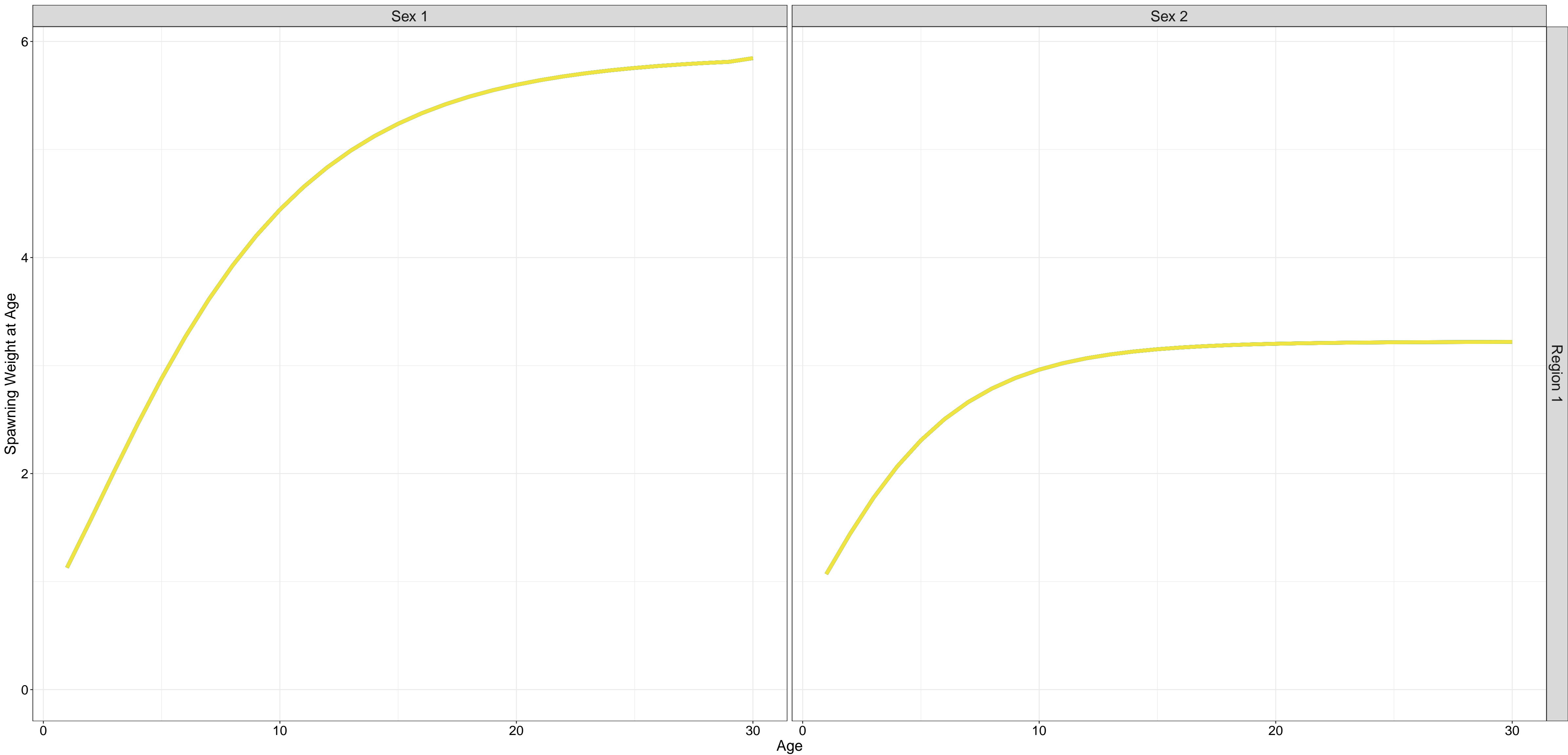
Natural Mortality

Model 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



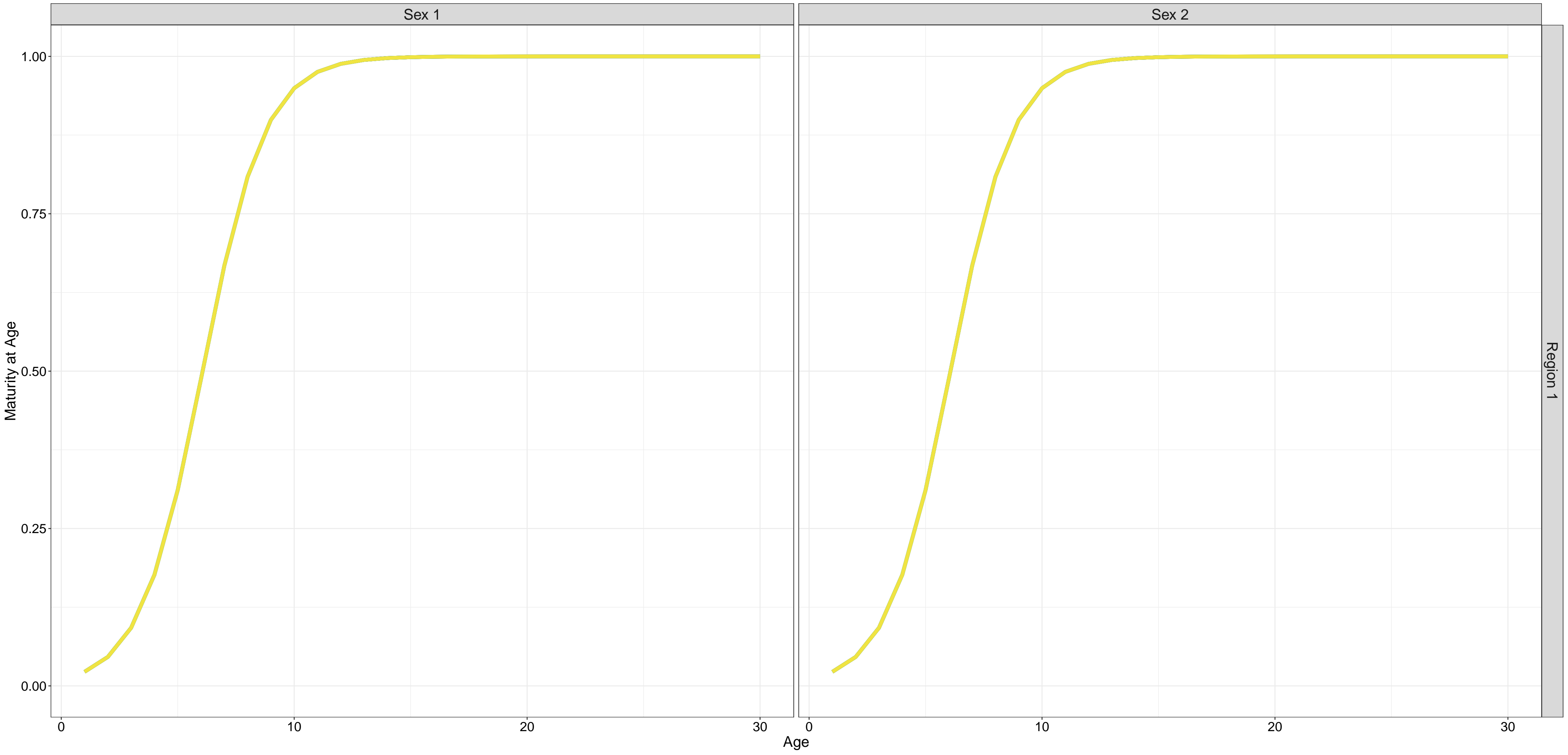
Weight-at-Age

Model 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



Maturity

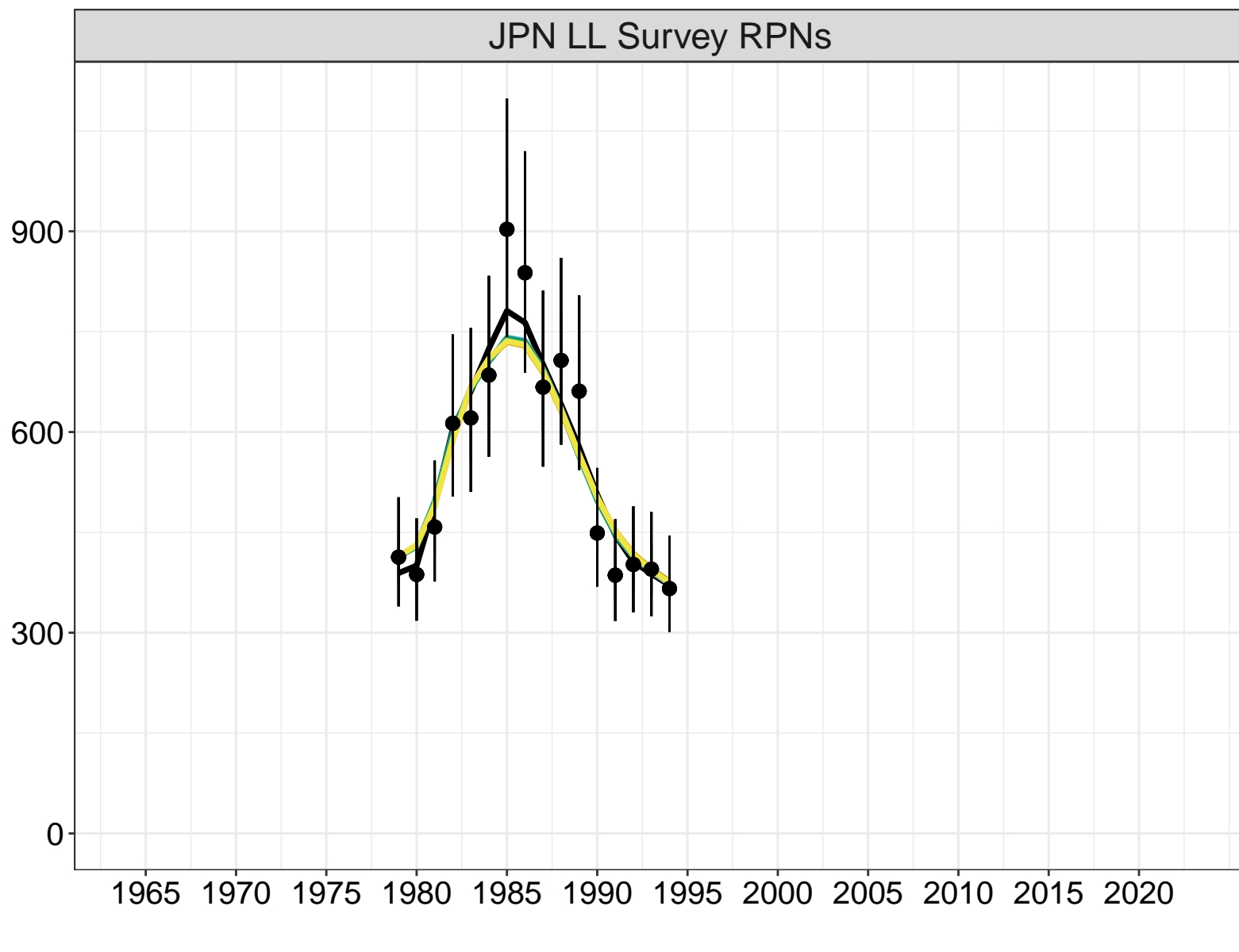
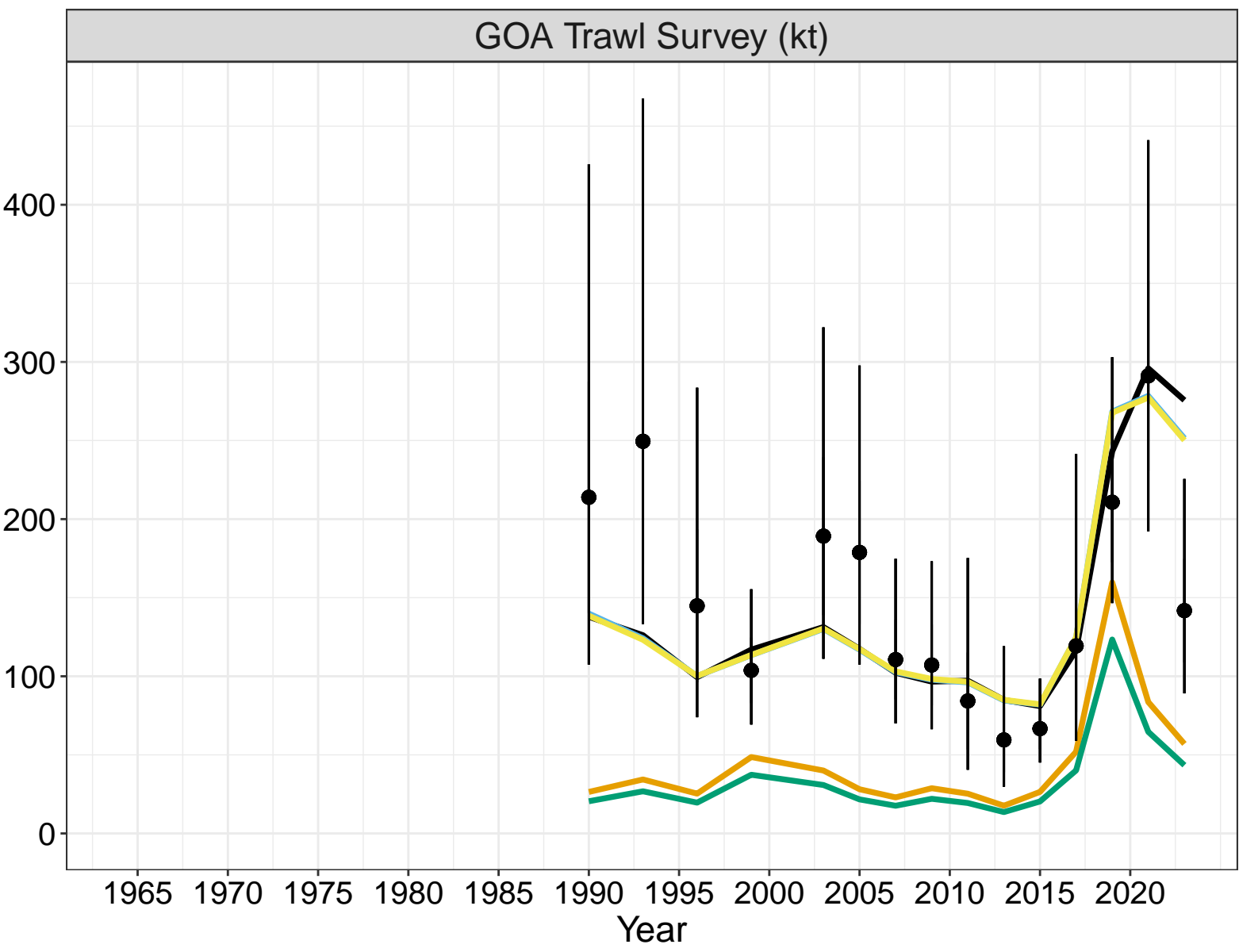
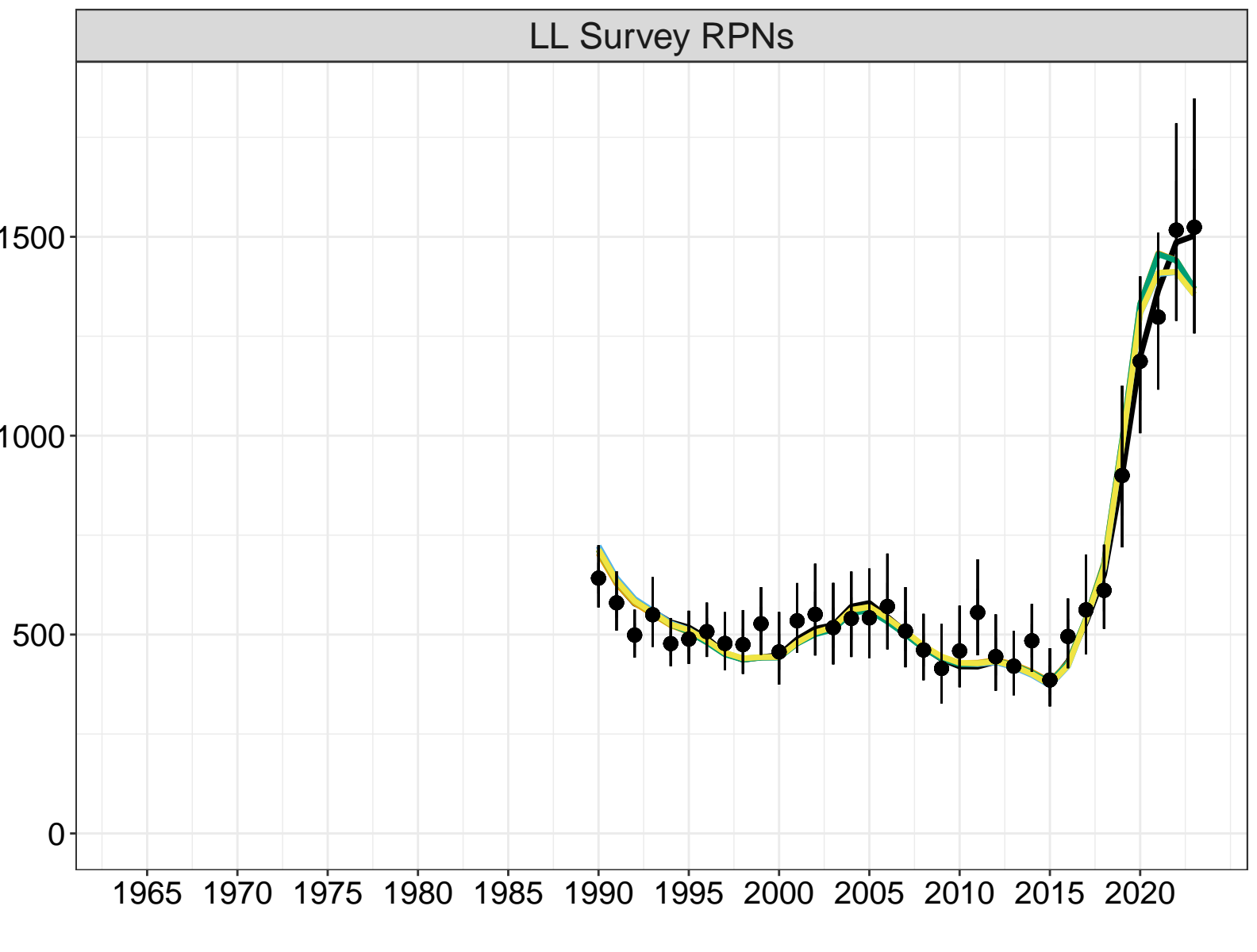
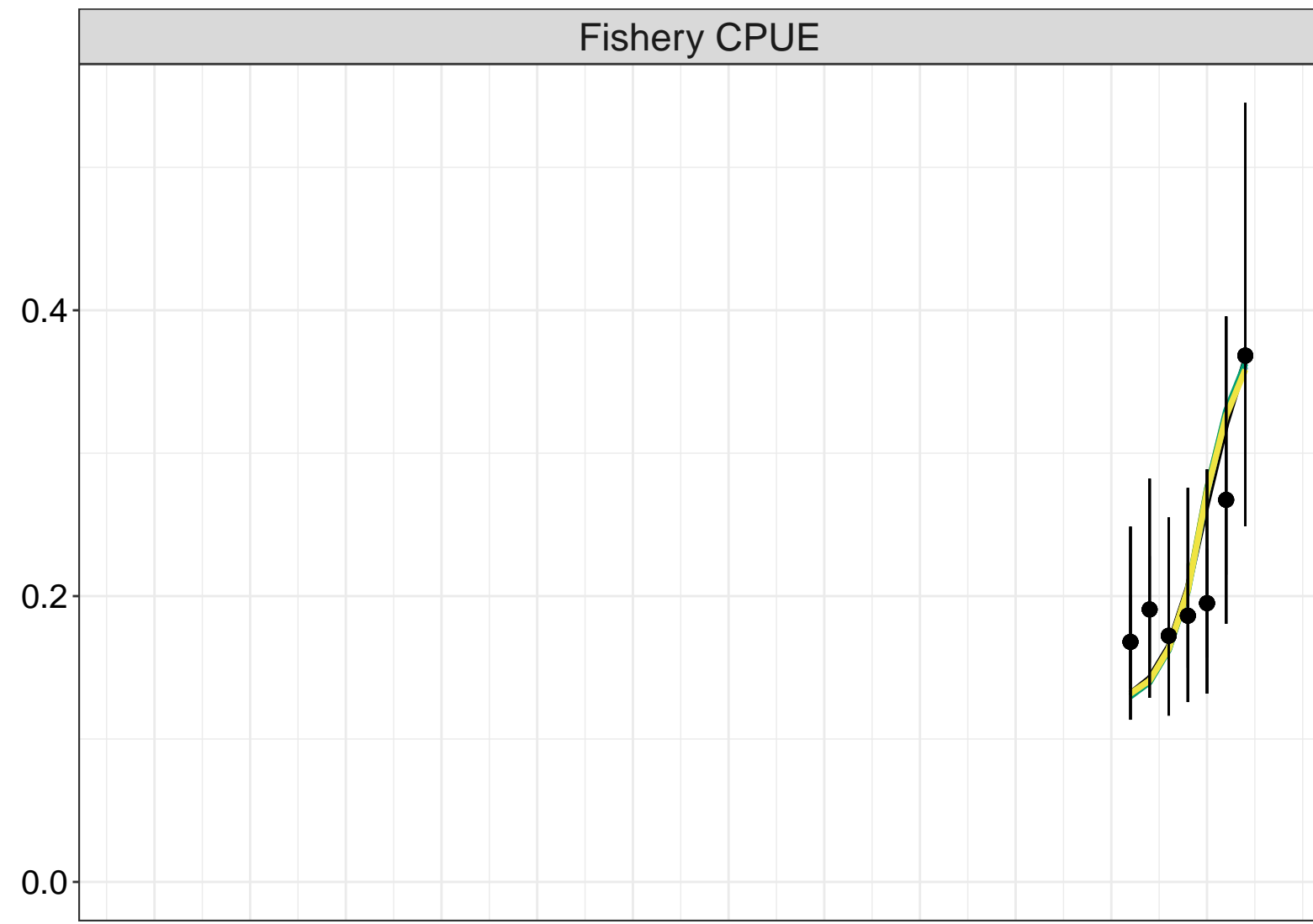
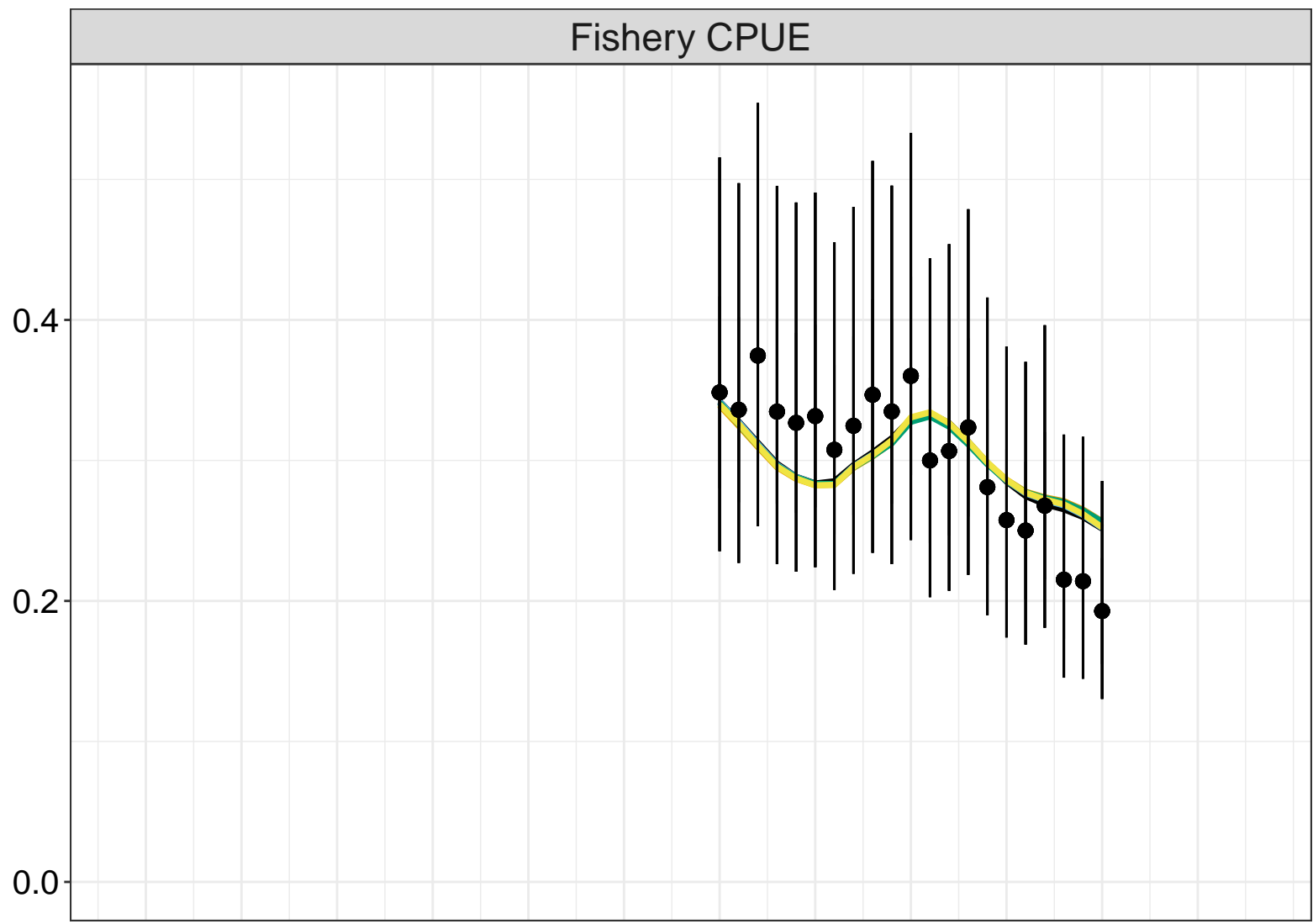
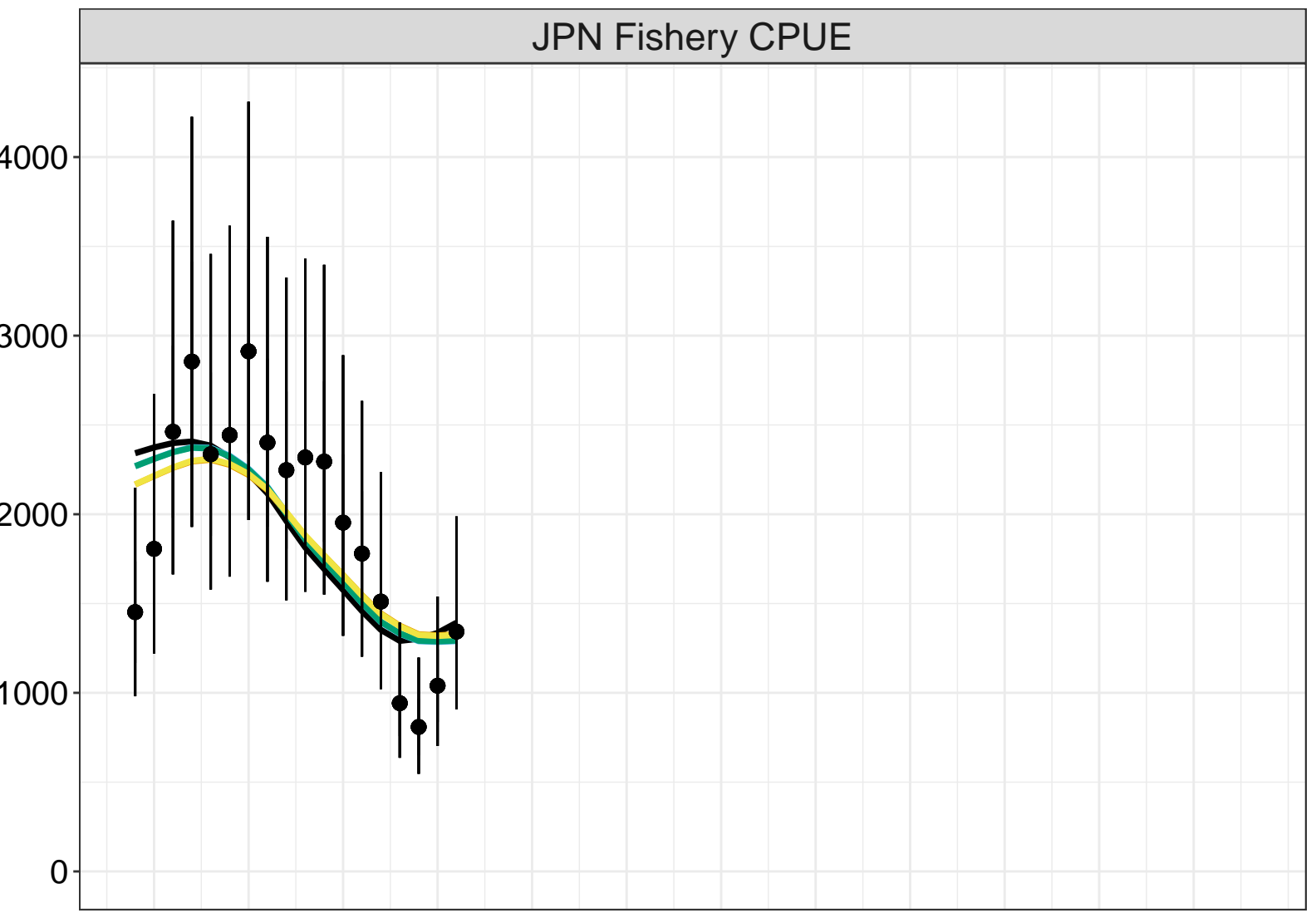
Model 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



Index Fits

Model — 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length

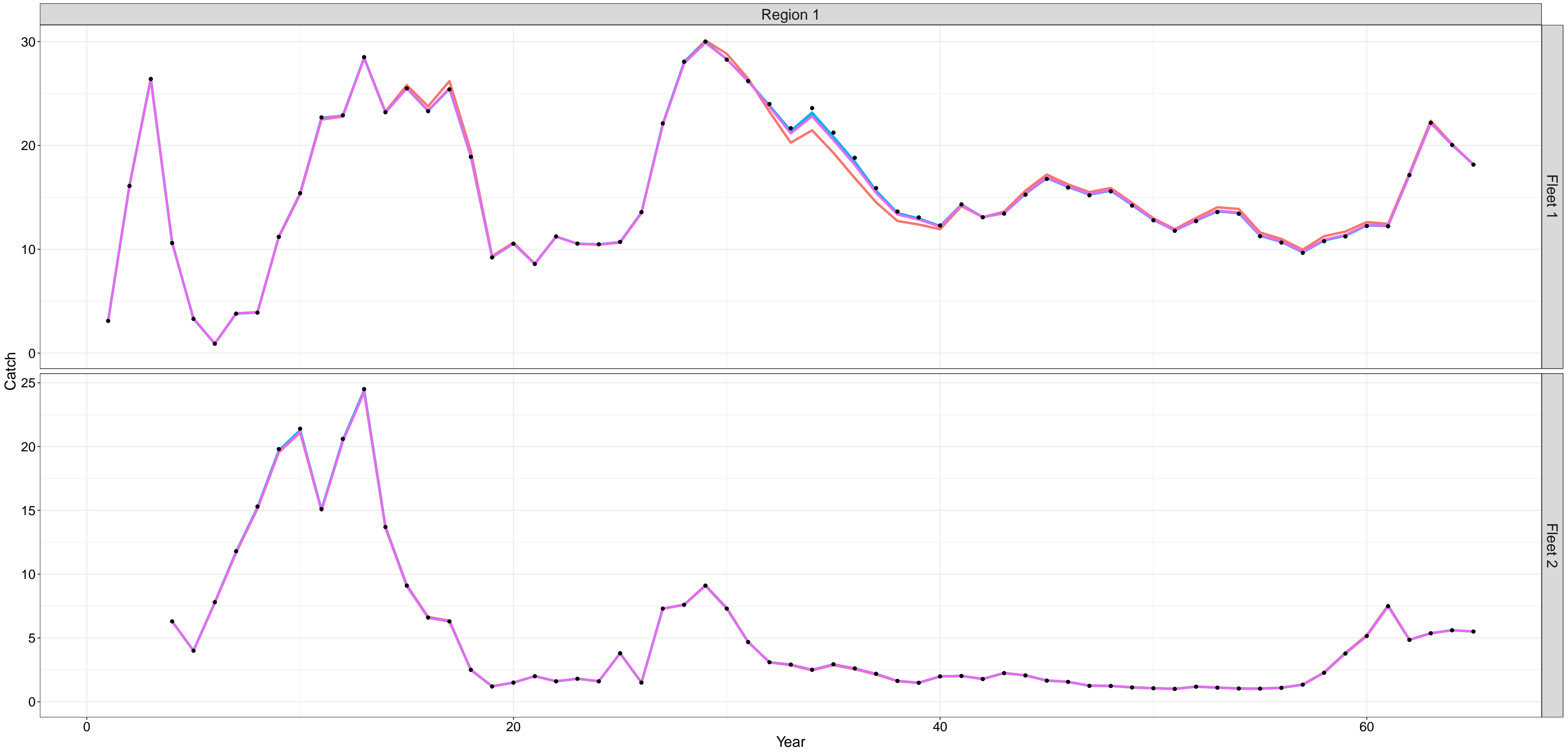
Index



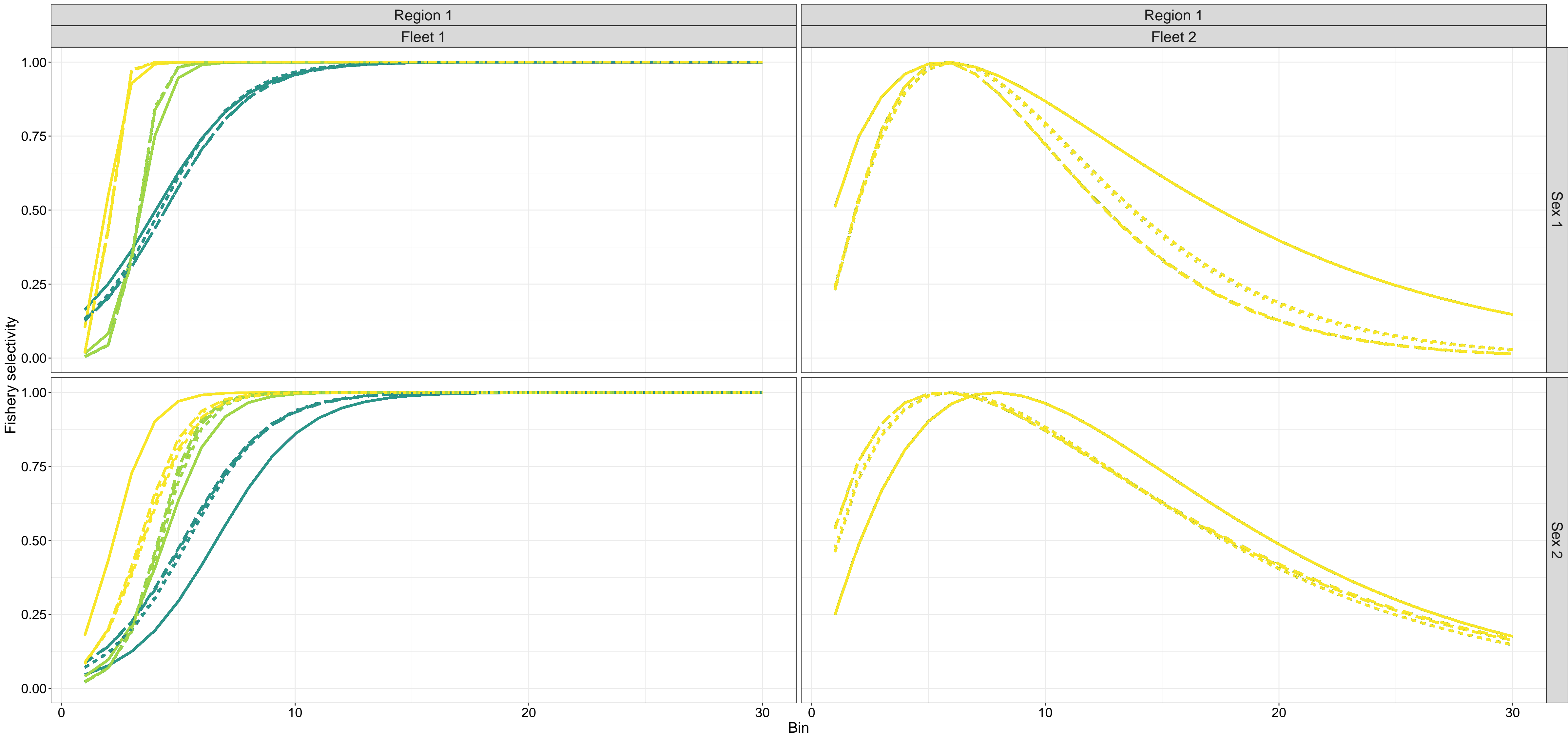
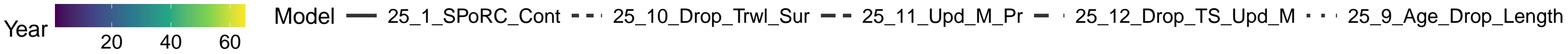
Year

Catch

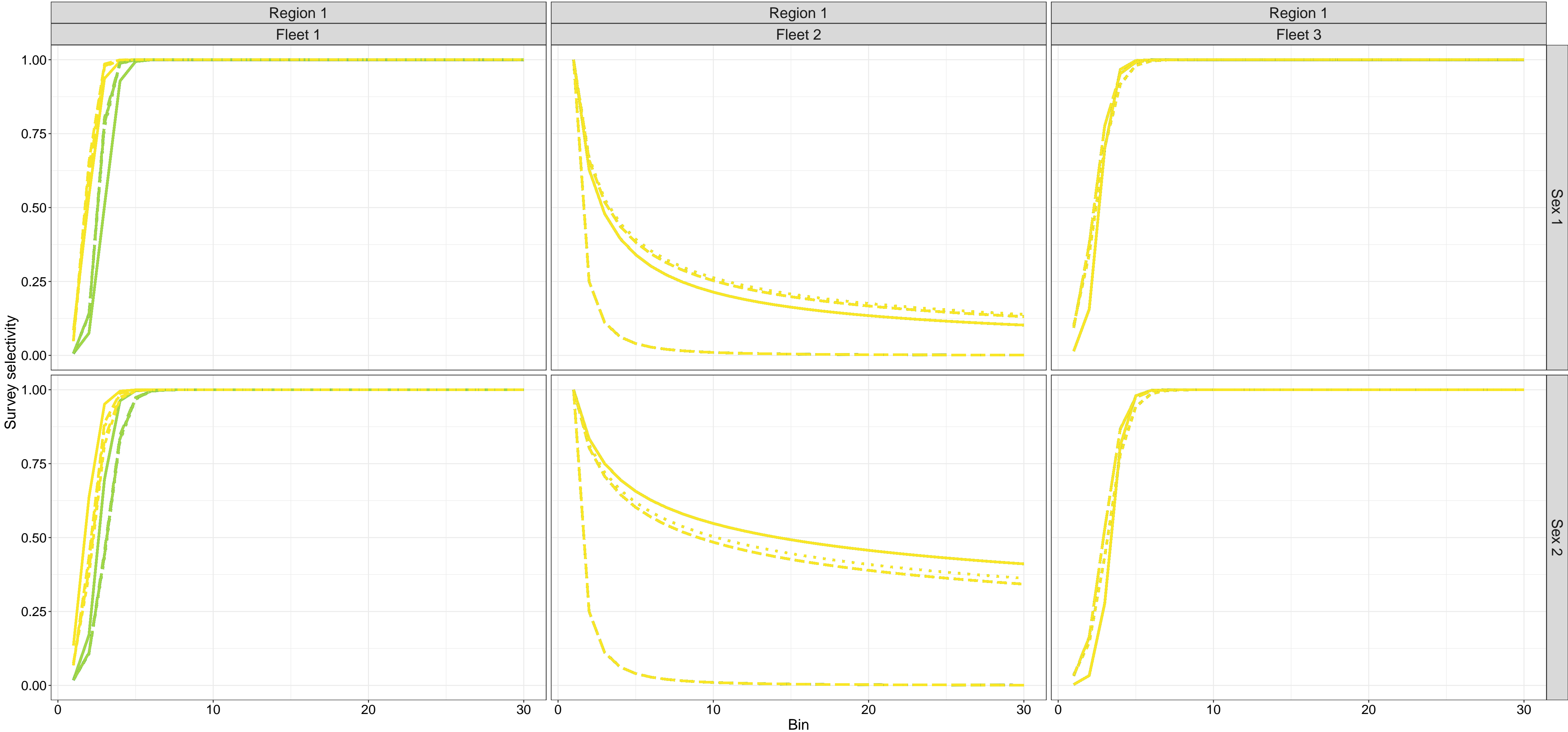
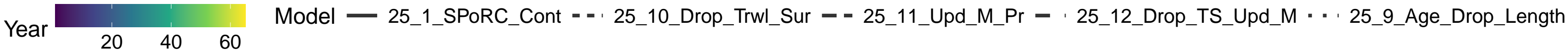
Model 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



Fishery Selectivity

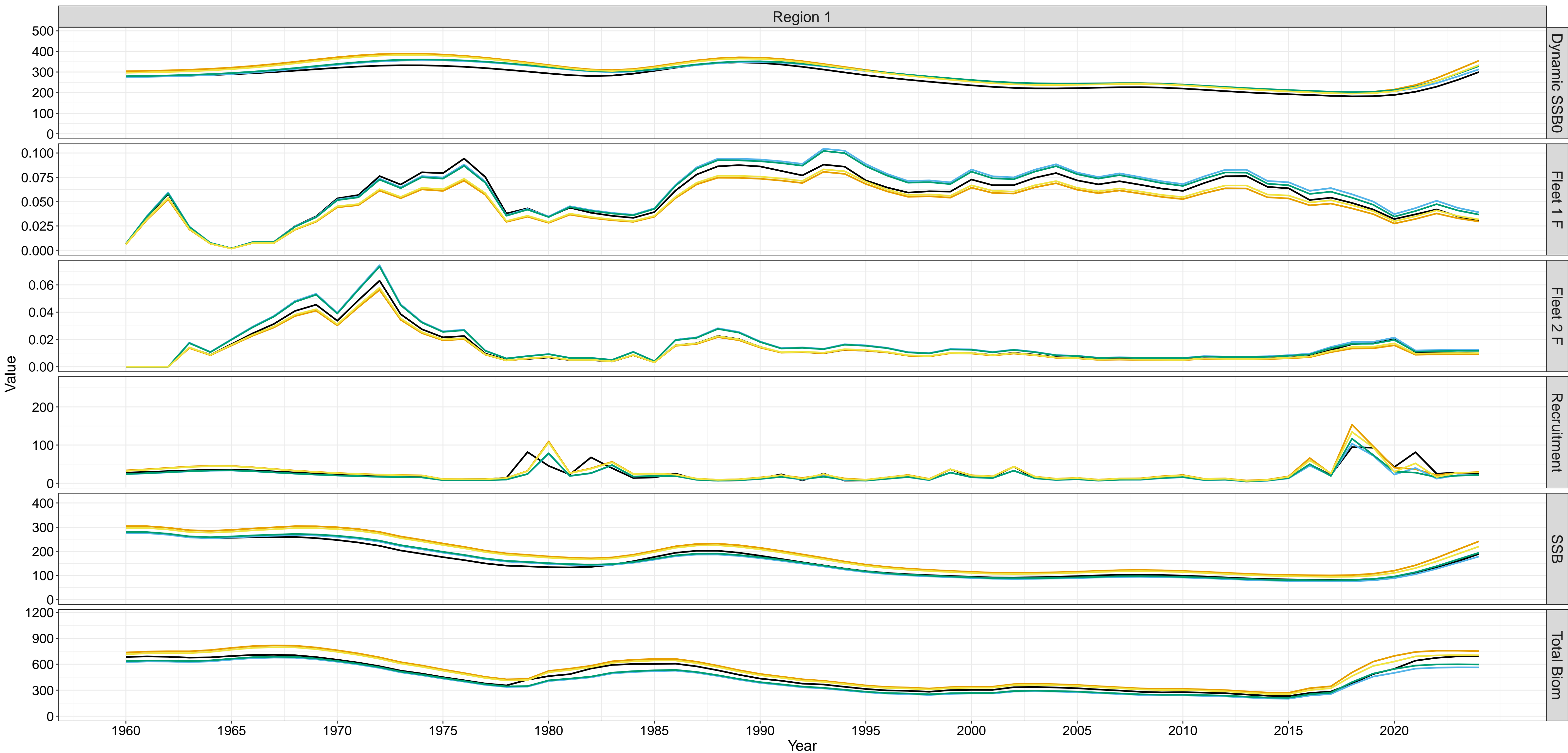


Survey Selectivity



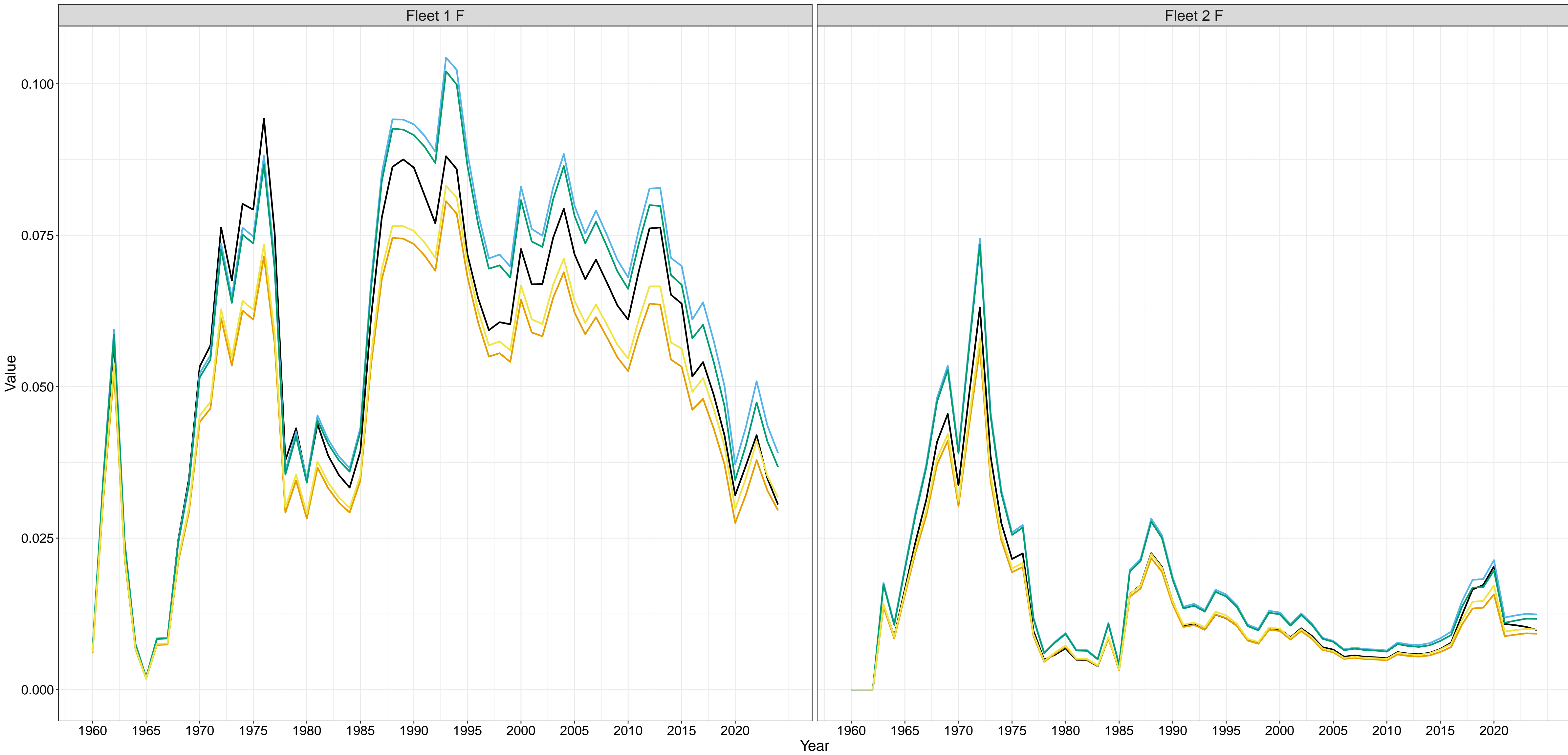
Time Series Plots

Model — 25_1_SPoRC_Cont — 25_10_Drop_Trwl_Sur — 25_11_Upd_M_Pr — 25_12_Drop_TS_Upd_M — 25_9_Age_Drop_Length



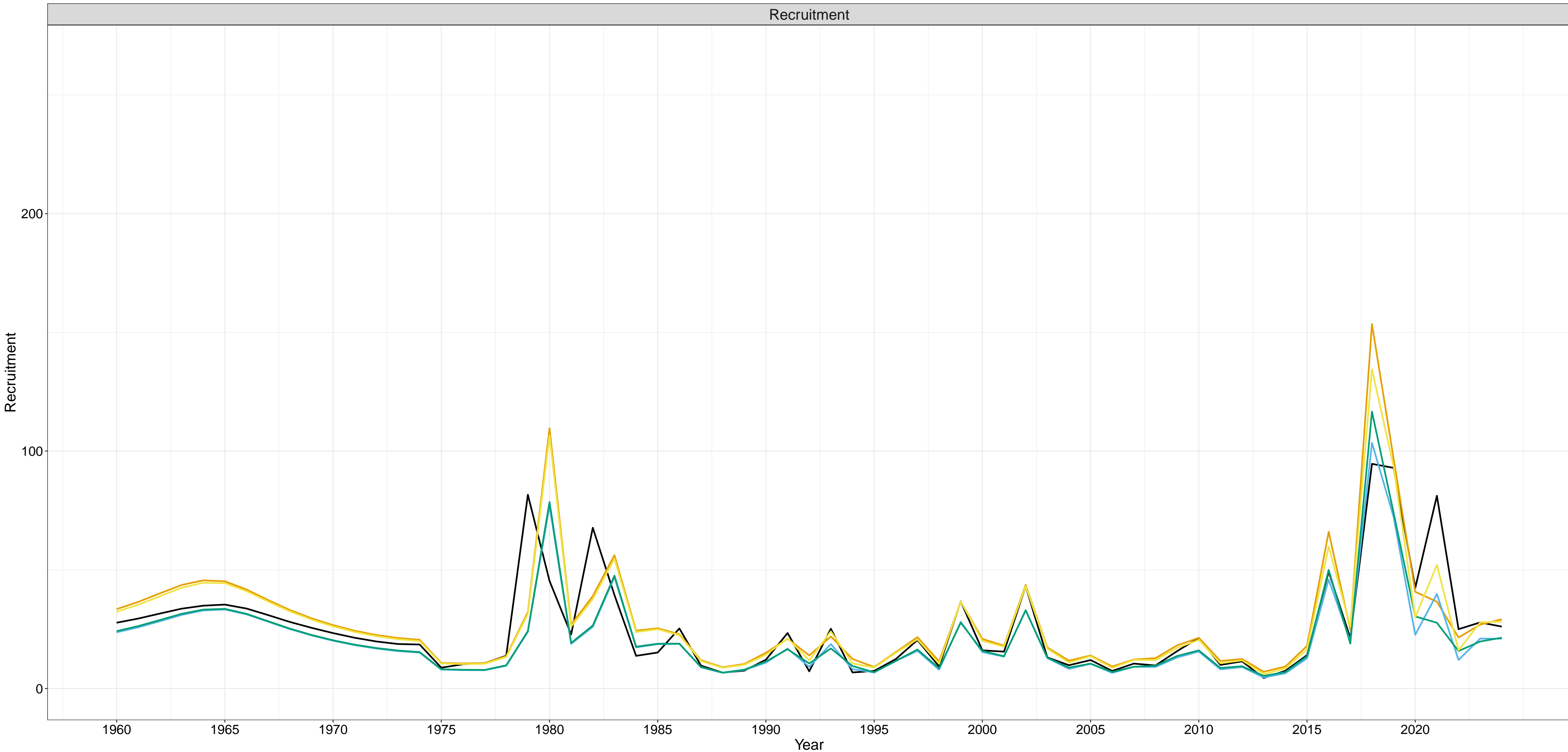
Fishing Mortality

Model — 25_1_SPoRC_Cont — 25_10_Drop_Trwl_Sur — 25_11_Upd_M_Pr — 25_12_Drop_TS_Upd_M — 25_9_Age_Drop_Length

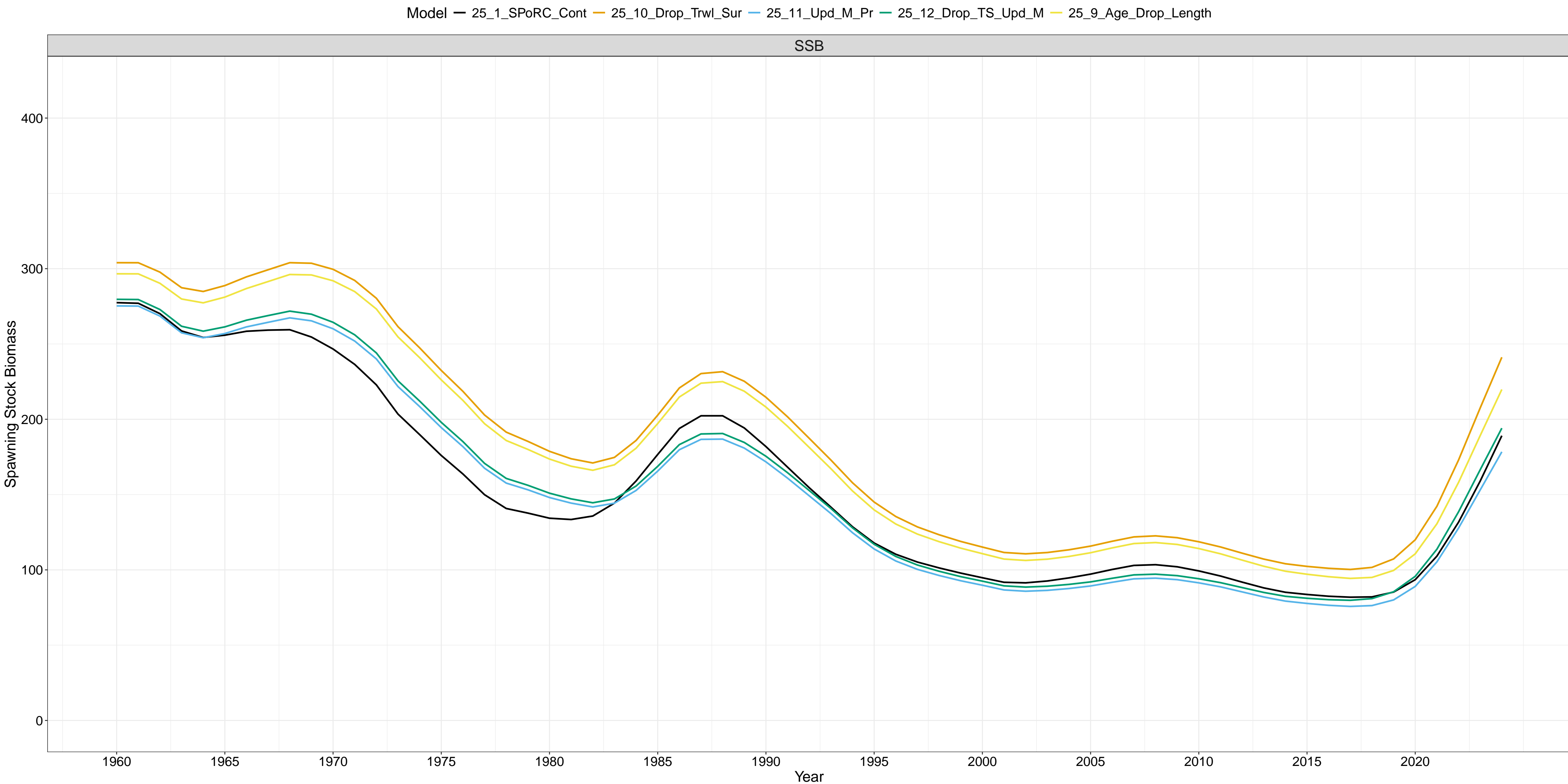


Recruitment

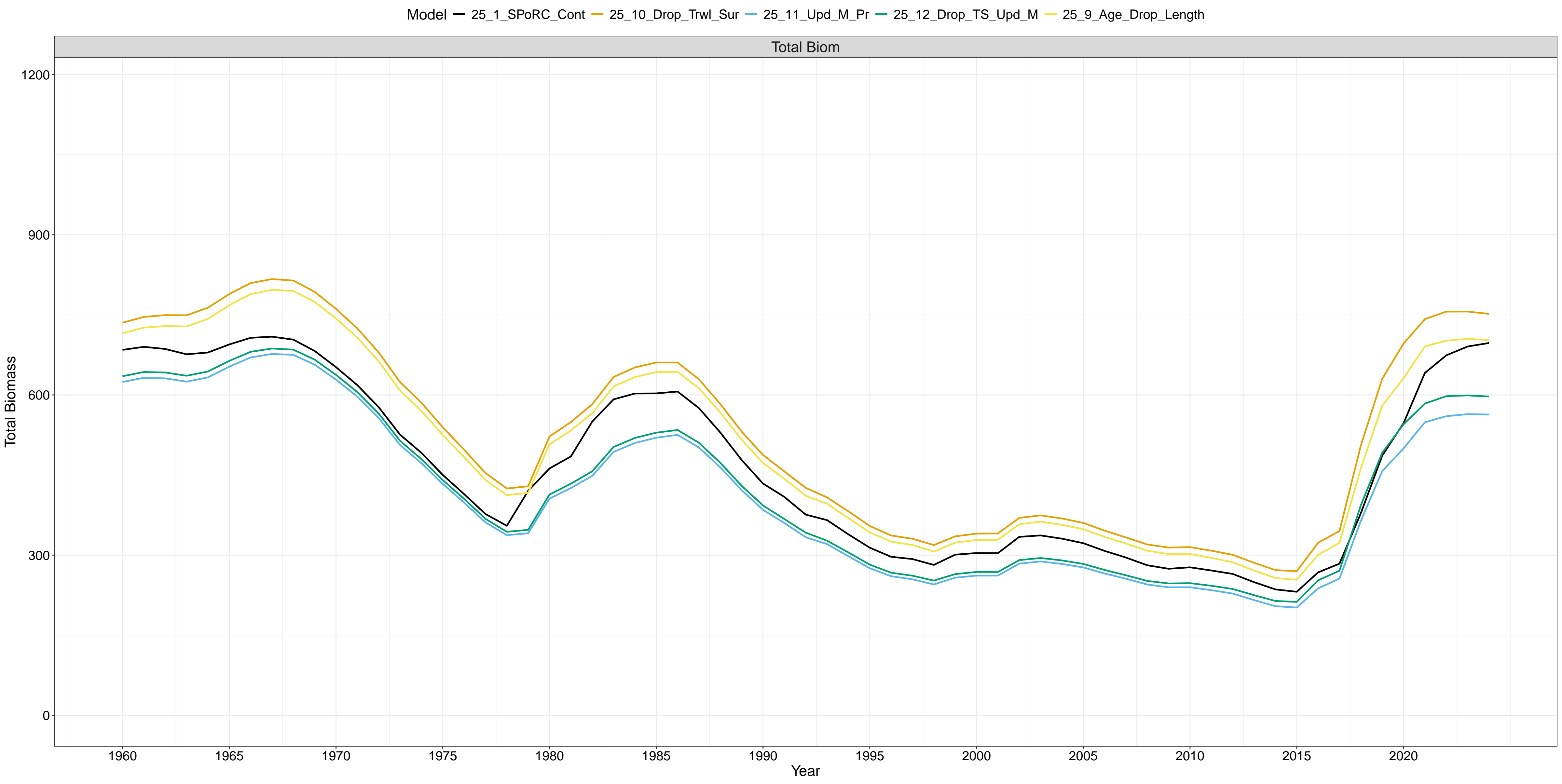
Model — 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



SSB

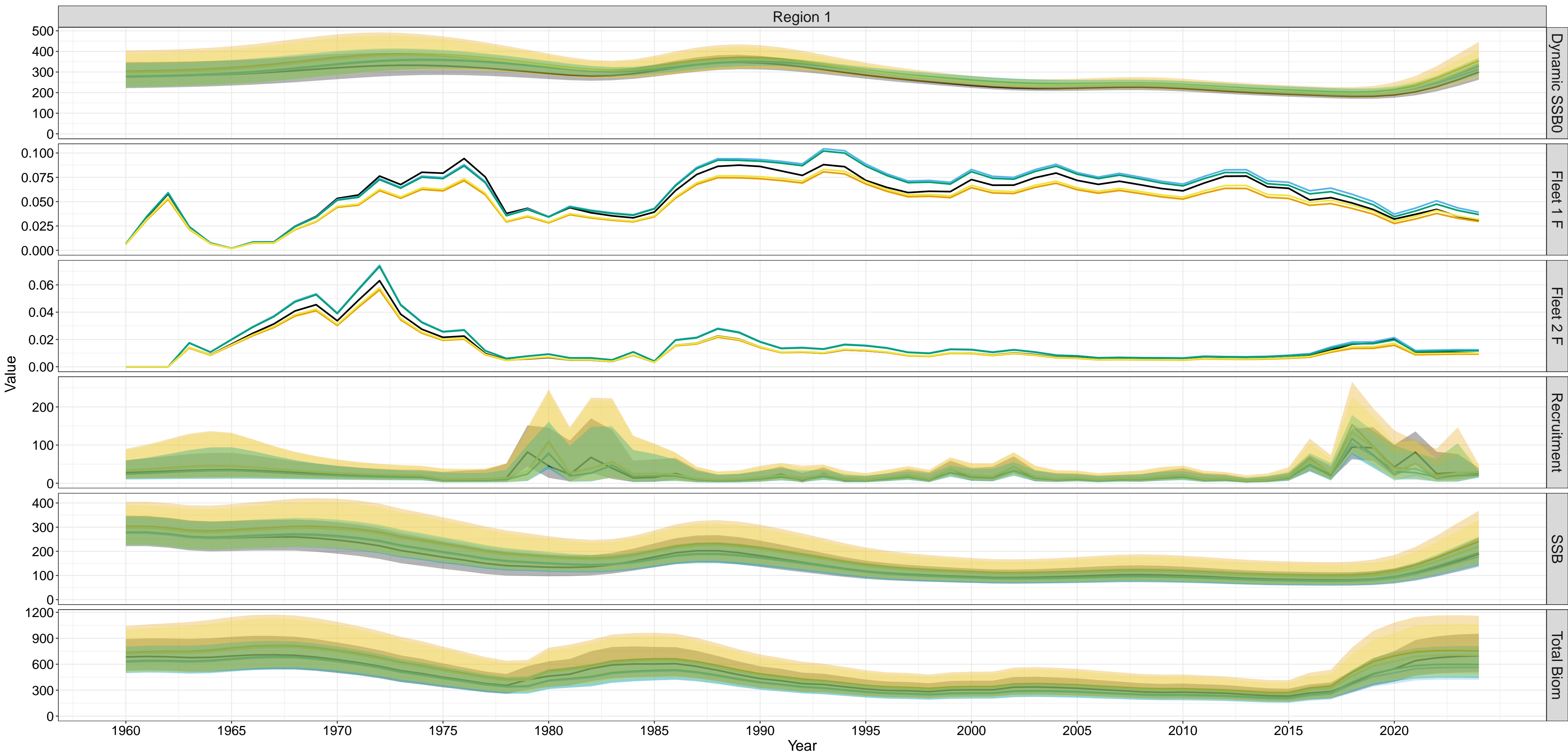


Biomass



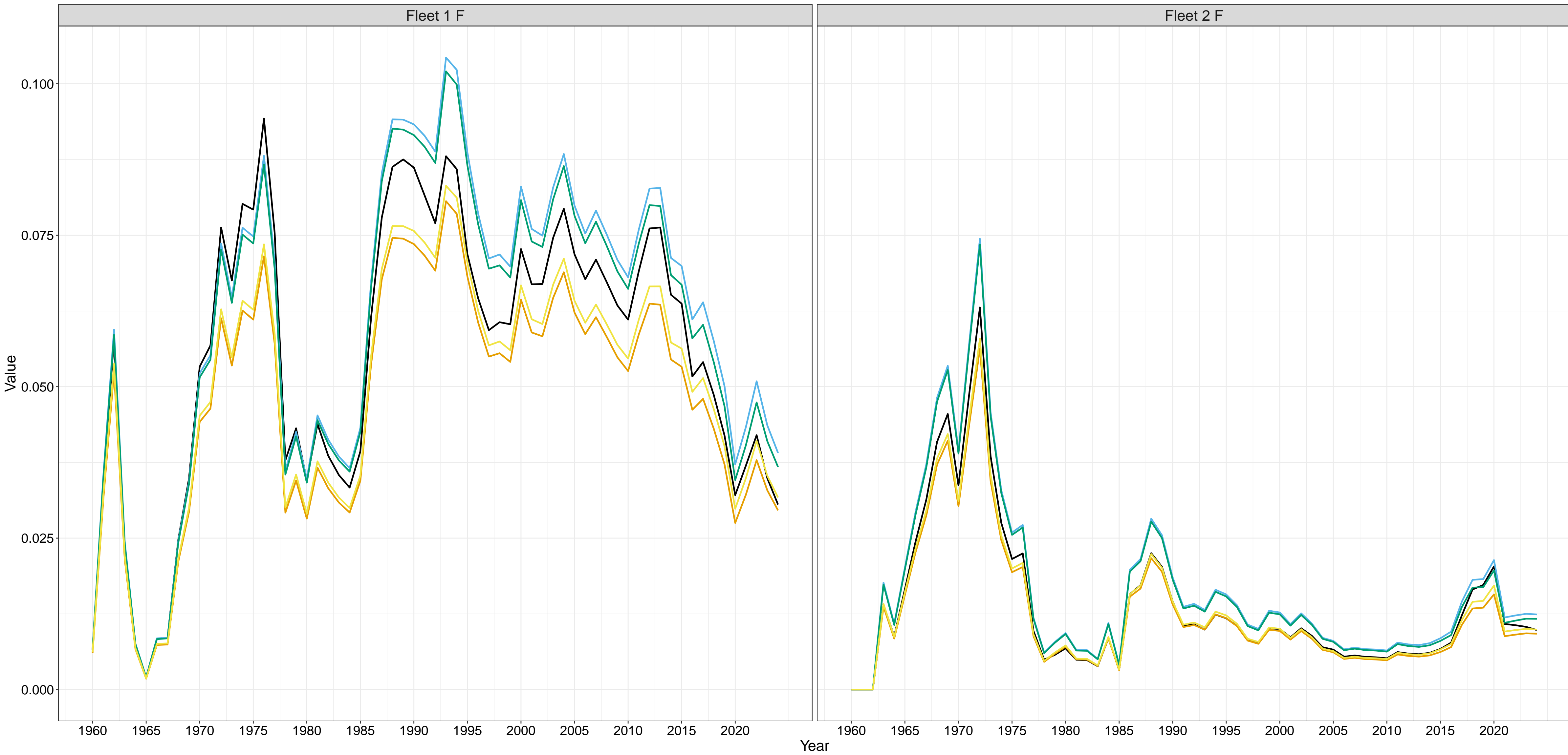
Time Series Plots

Model — 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



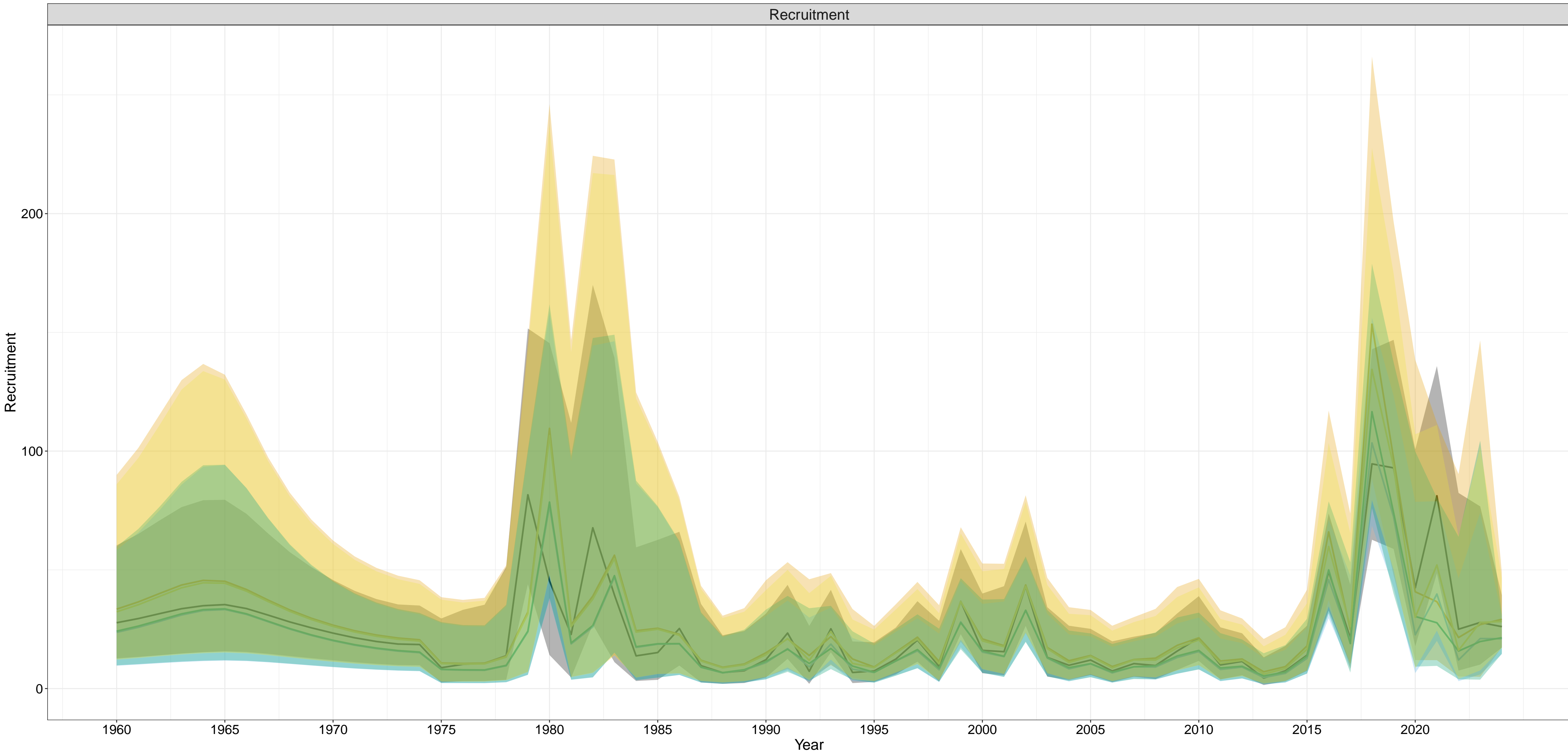
Fishing Mortality

Model — 25_1_SPoRC_Cont — 25_10_Drop_Trwl_Sur — 25_11_Upd_M_Pr — 25_12_Drop_TS_Upd_M — 25_9_Age_Drop_Length

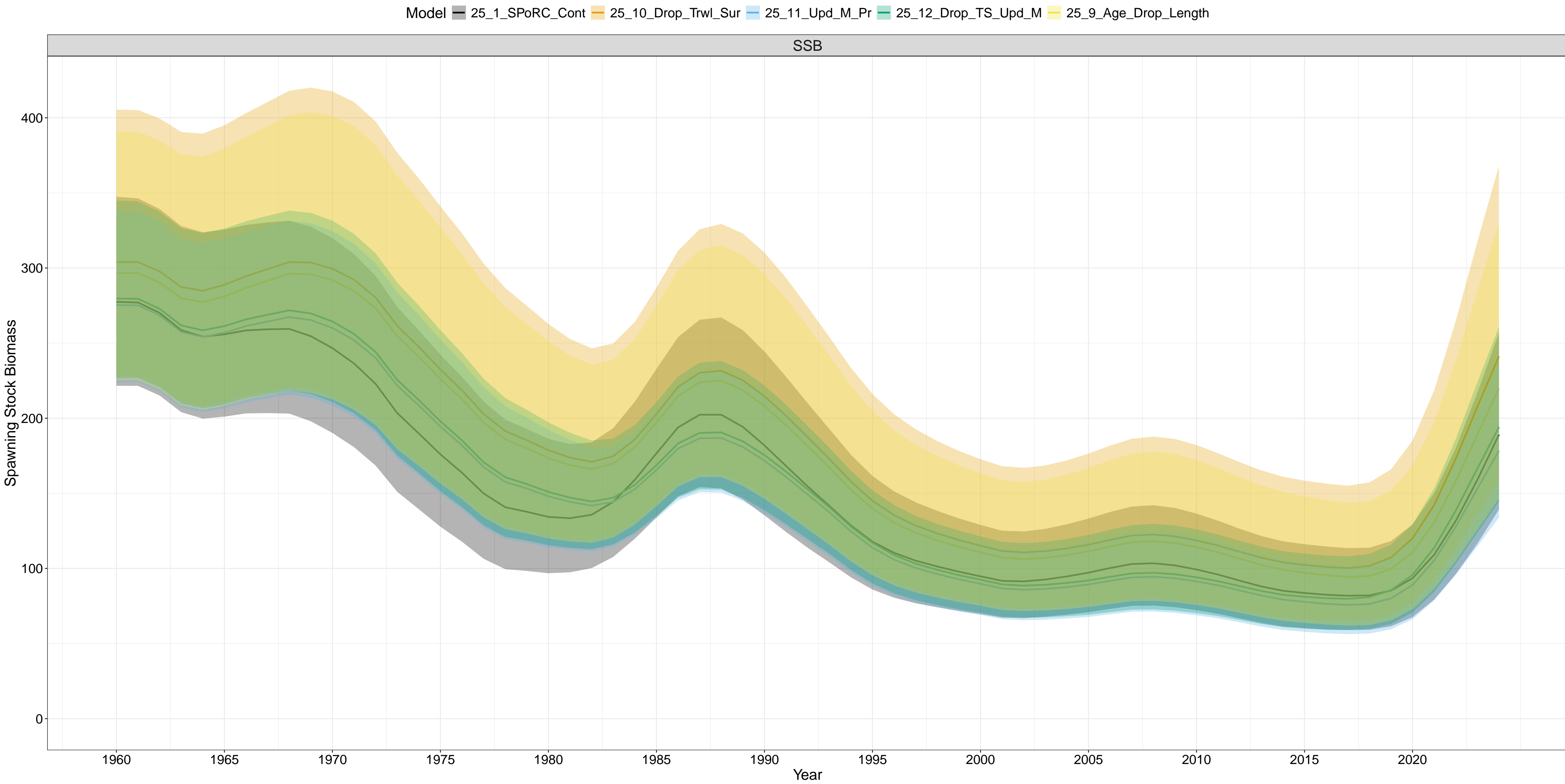


Recruitment

Model 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length



SSB



Biomass

Model 25_1_SPoRC_Cont 25_10_Drop_Trwl_Sur 25_11_Upd_M_Pr 25_12_Drop_TS_Upd_M 25_9_Age_Drop_Length

