

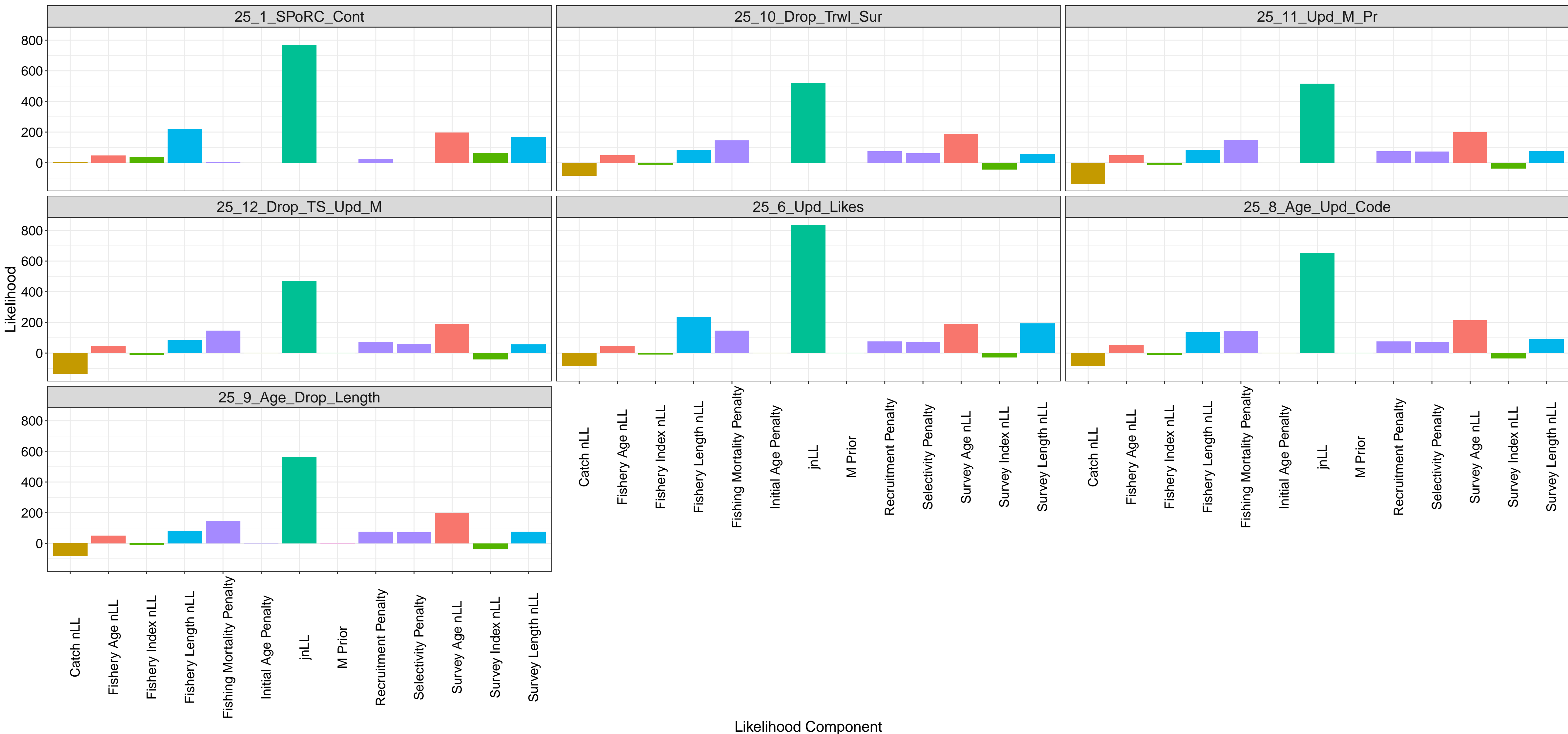
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	25_1_SPoRC_Cont	1	189.0804	0.04037044	49.68588	121.0229	0.08593	1.56235	0.46979
2	25_6_Upd_Likes	1	200.9191	0.03842778	52.95886	128.0622	0.08665	1.56892	0.44350
3	25_8_Age_Upd_Code	1	221.2632	0.03979598	53.31742	126.1573	0.09078	1.75387	0.43839
4	25_9_Age_Drop_Length	1	219.7952	0.04162539	50.00421	125.1969	0.09062	1.75560	0.45932
5	25_10_Drop_Trwl_Sur	1	241.1688	0.03880675	53.56695	129.4799	0.09093	1.86260	0.42678
6	25_11_Upd_M_Pr	1	178.3803	0.05147170	37.28203	123.4346	0.08281	1.44514	0.62155
7	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_6_Upd_Likes	835.7924	−0.2354034	76.09974	−83.779841	146.315255	−29.36051	−10.47291	0.3208338	189.2229	46.83455	192.90260	235.42033	72.52476
3	25_8_Age_Upd_Code	653.9155	0.3244425	75.84462	−84.337557	145.365332	−36.25234	−12.70699	0.1736375	215.7966	51.61723	90.02423	135.82932	72.23689
4	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
5	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
6	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
7	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

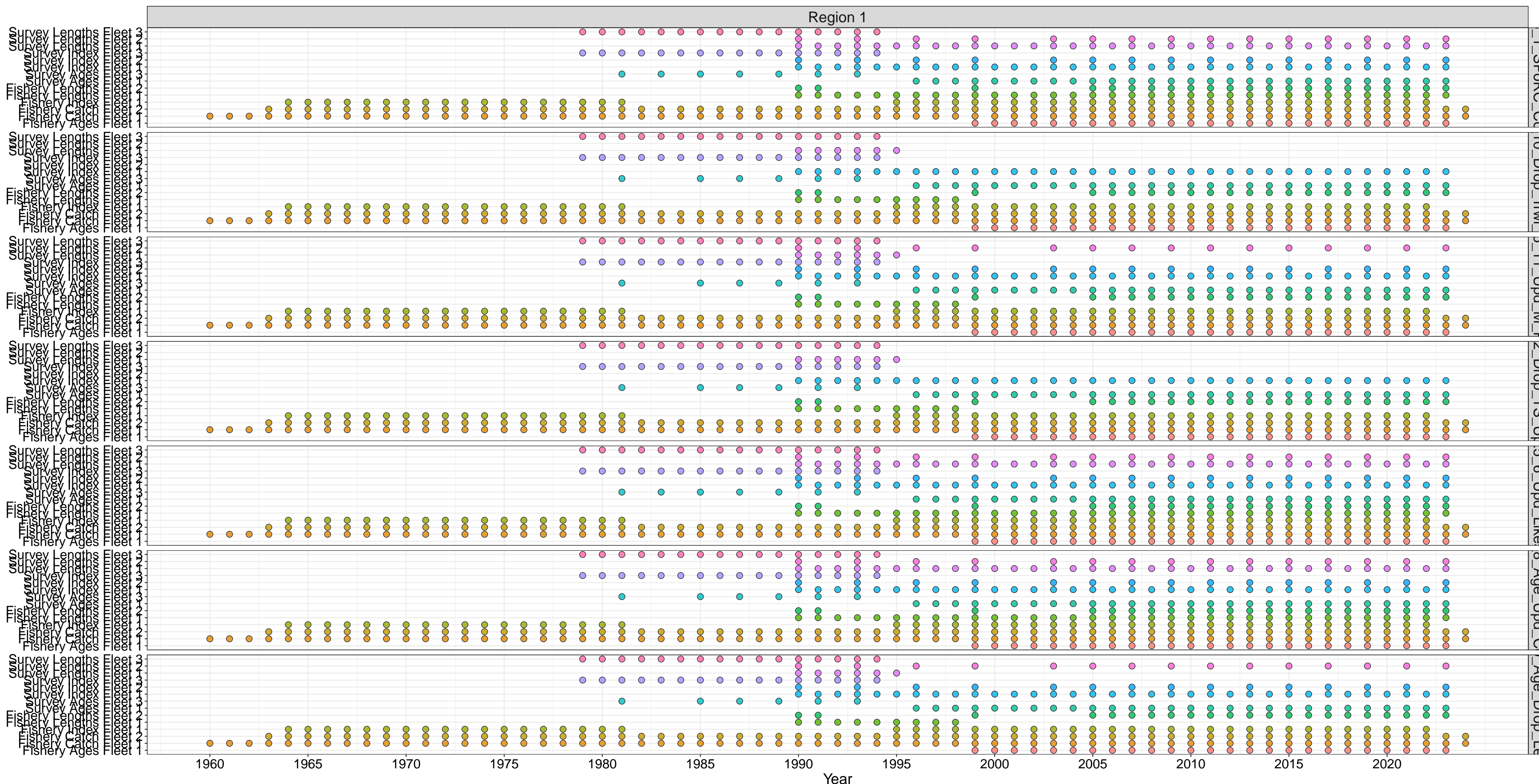
# Negative Log-Likelihood

Type

Age	Index	Length	Prior
Catch	jnLL	Penalty	



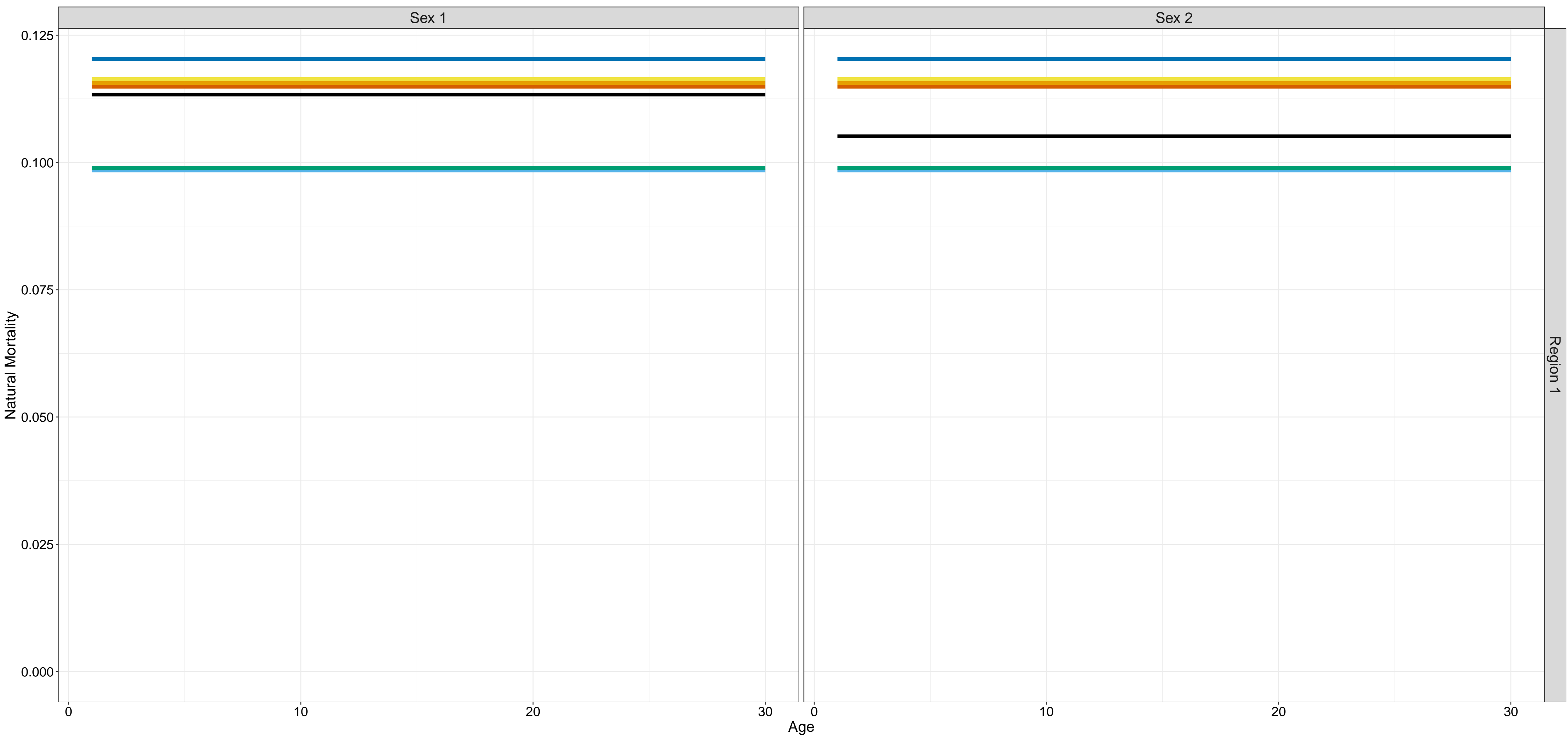
Data



# Natural Mortality

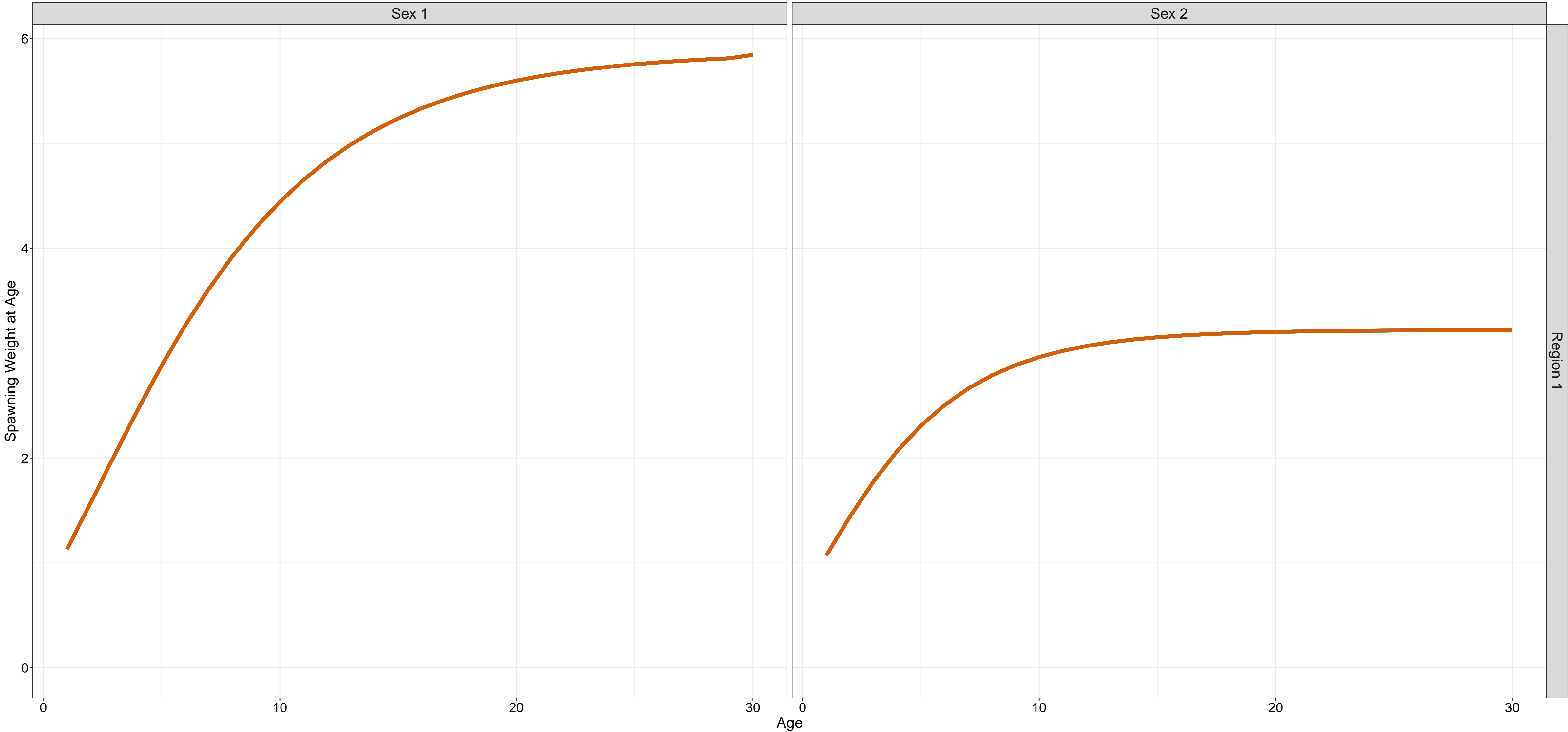
Model

25_1_SPoRC_Cont	25_11_Upd_M_Pr	25_6_Upd_Likes	25_9_Age_Drop_Length
25_10_Drop_Trwl_Sur	25_12_Drop_TS_Upd_M	25_8_Age_Upd_Code	



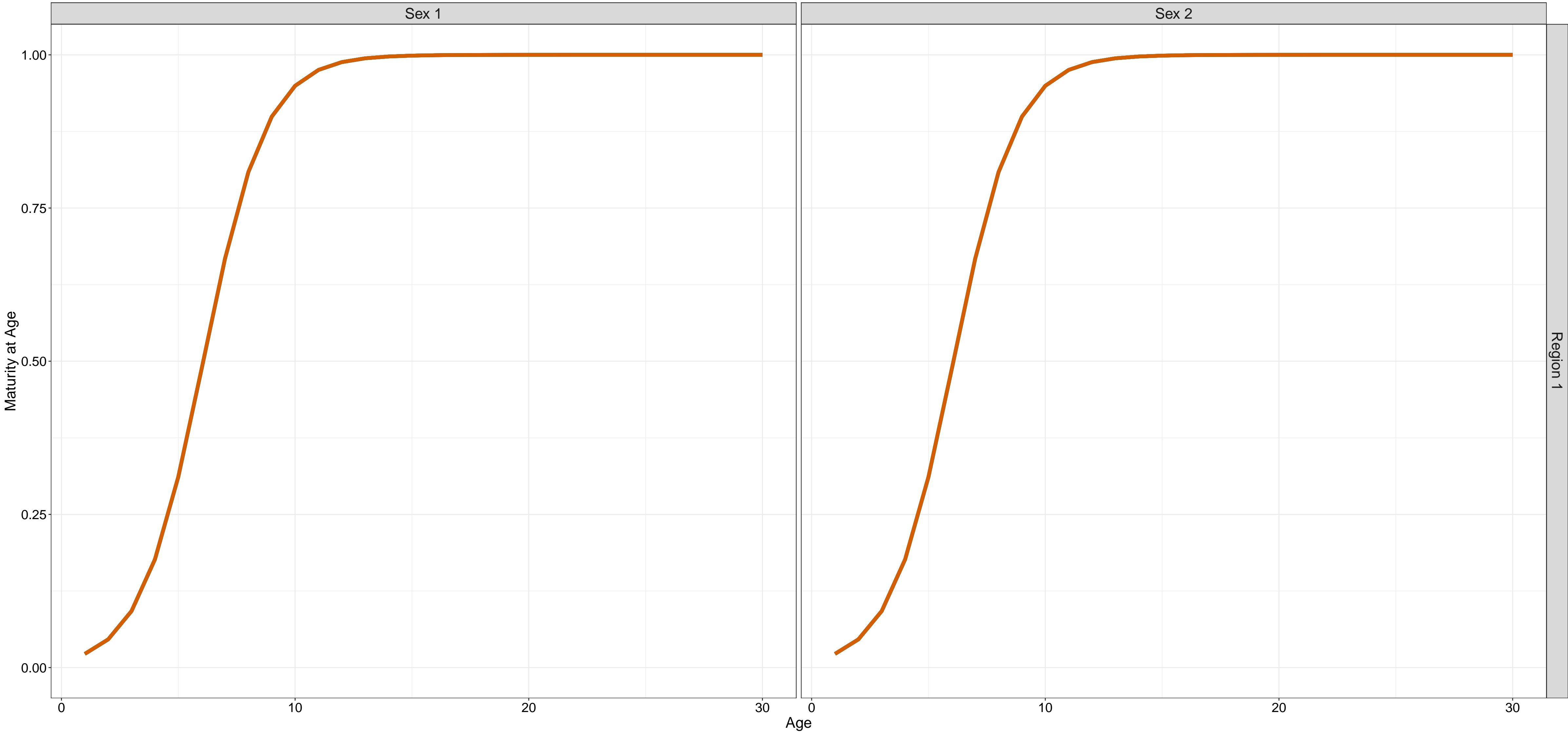
# Weight-at-Age

Model 25\_1\_SPoRC\_Cont 25\_11\_Upd\_M\_Pr 25\_6\_Upd\_Likes 25\_9\_Age\_Drop\_Length  
25\_10\_Drop\_Trwl\_Sur 25\_12\_Drop\_TS\_Upd\_M 25\_8\_Age\_Upd\_Code



Maturity

Model 25\_1\_SPoRC\_Cont 25\_11\_Upd\_M\_Pr 25\_6\_Upd\_Likes 25\_9\_Age\_Drop\_Length  
25\_10\_Drop\_Trwl\_Sur 25\_12\_Drop\_TS\_Upd\_M 25\_8\_Age\_Upd\_Code

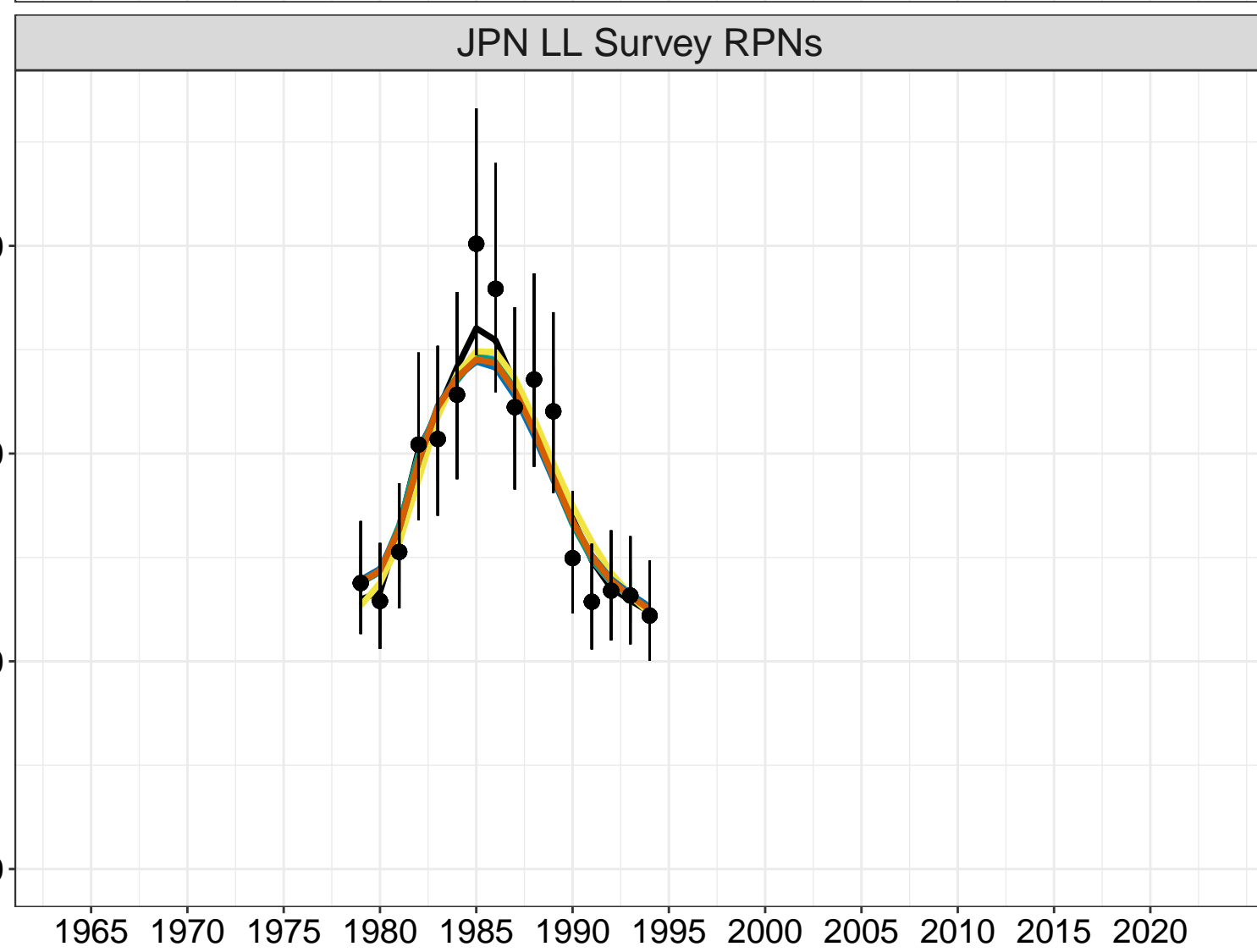
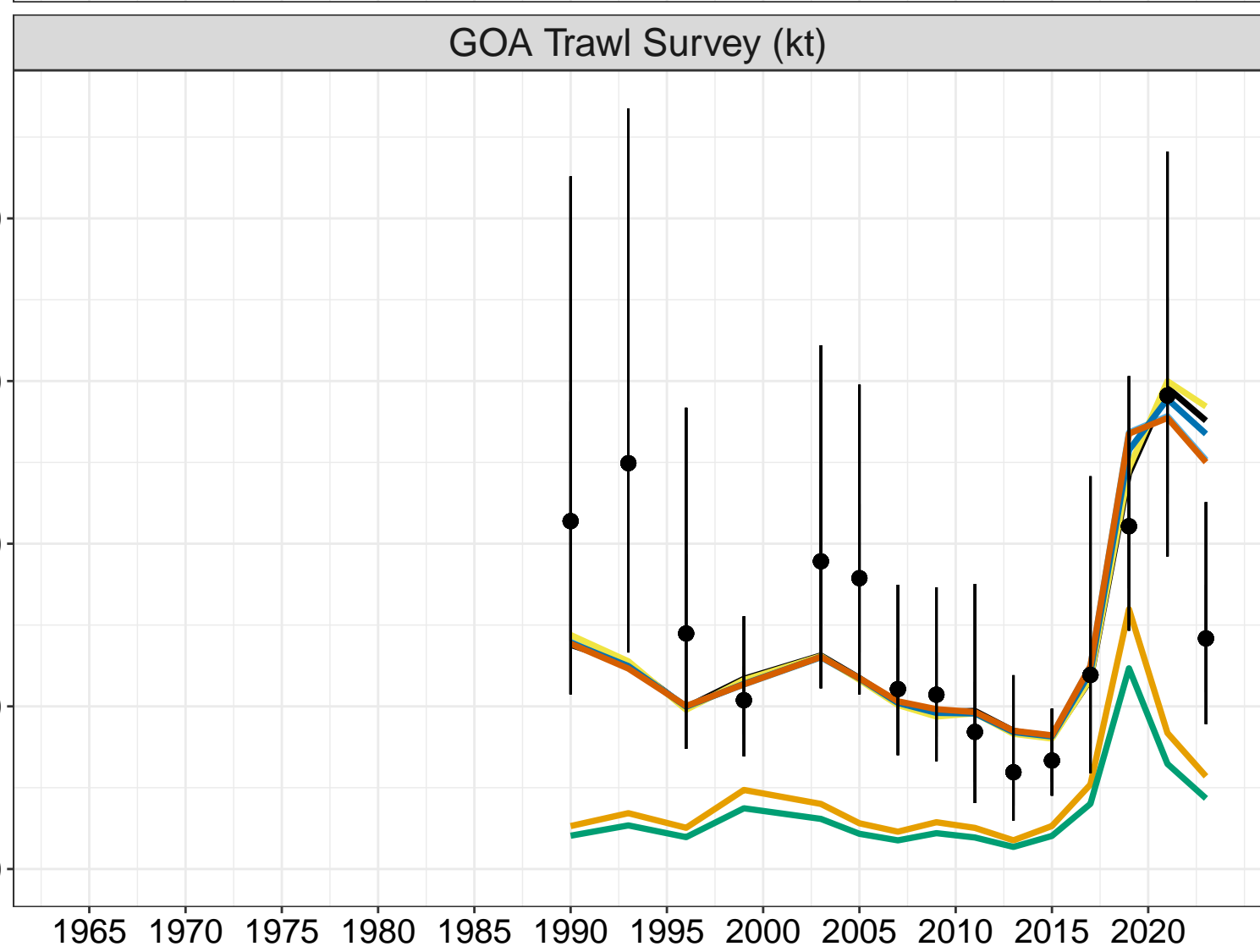
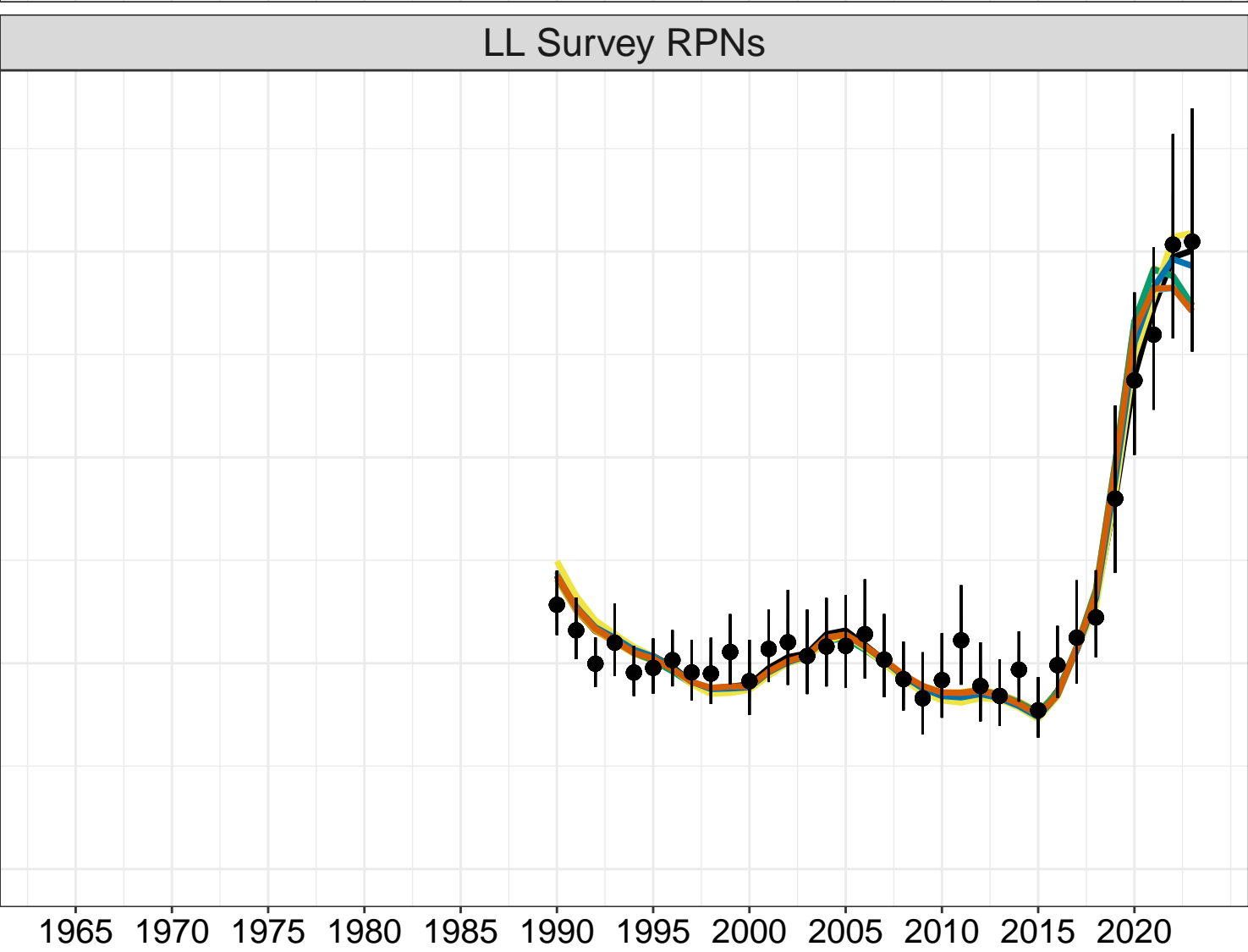
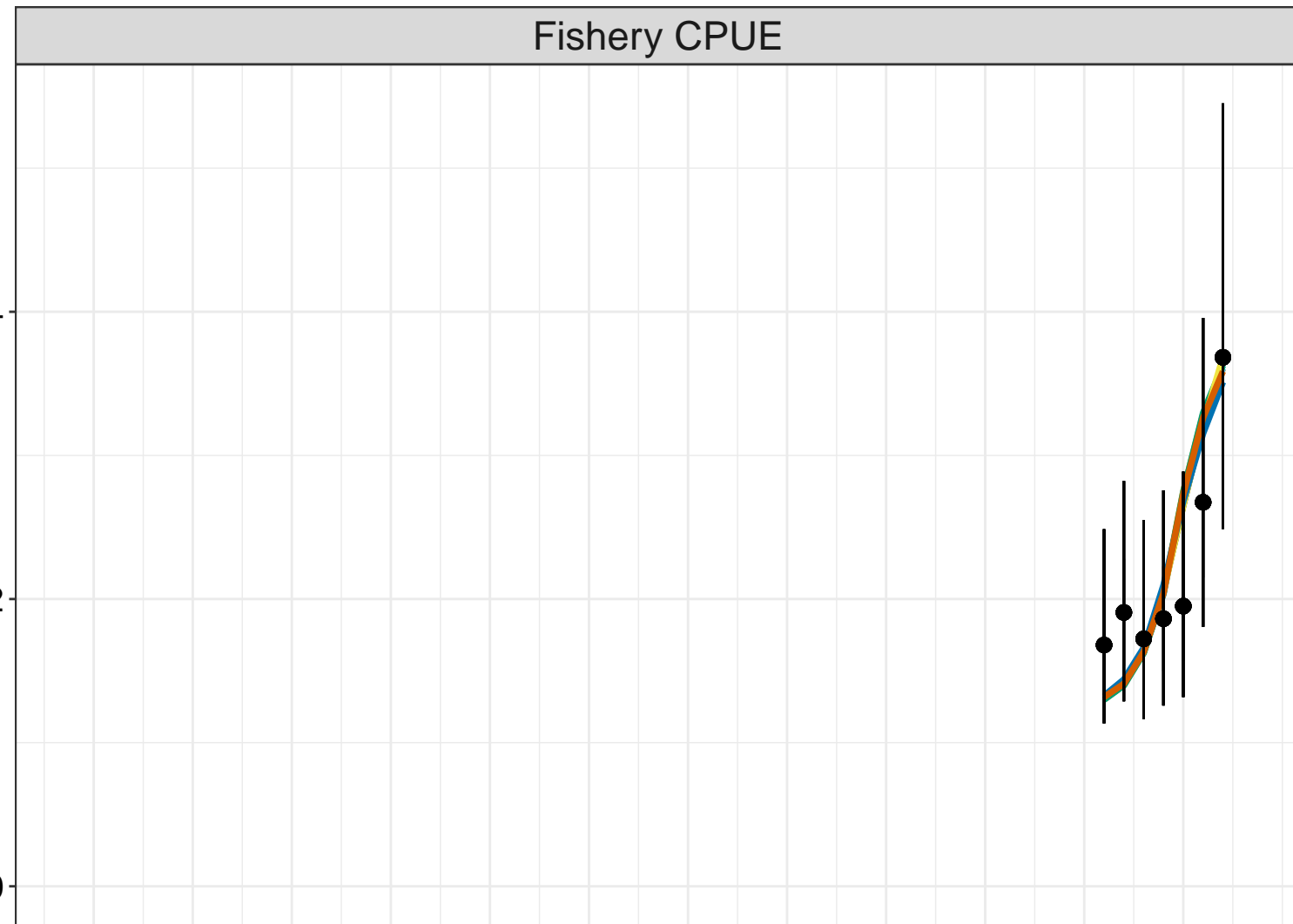
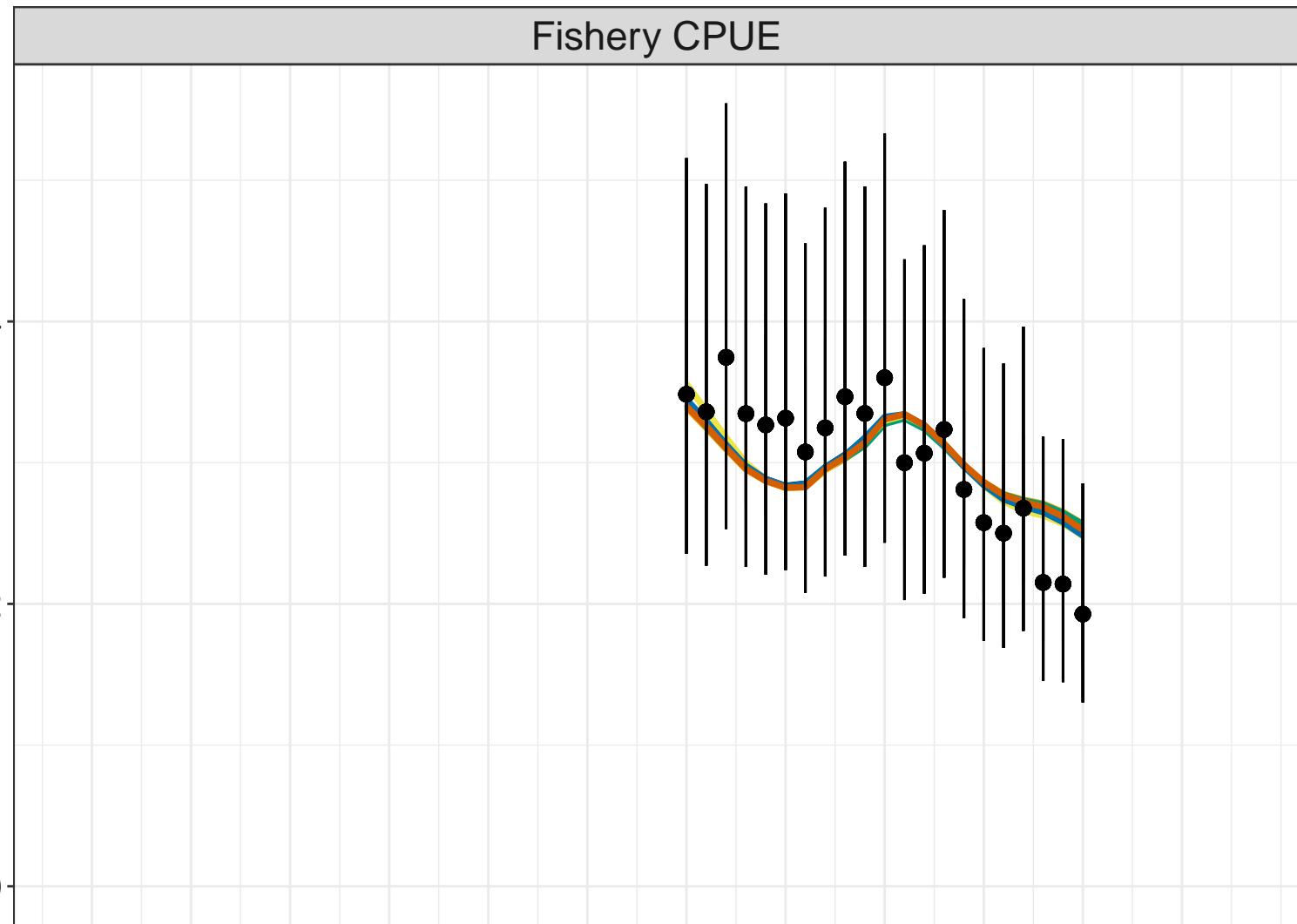
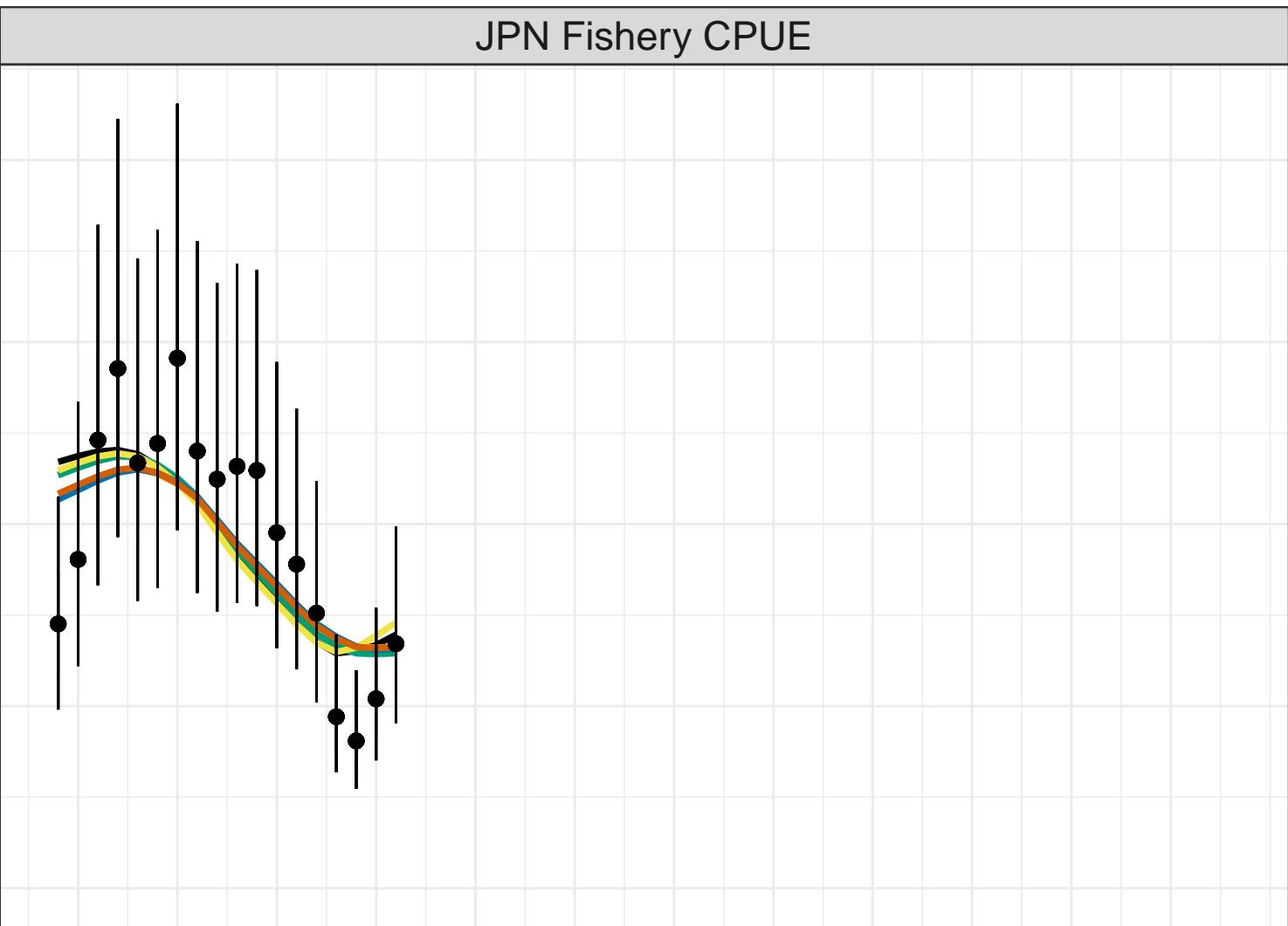




Index Fits

Model 25\_1\_SPoRC\_Cont 25\_11\_Upd\_M\_Pr 25\_6\_Upd\_Likes 25\_9\_Age\_Drop\_Length  
25\_10\_Drop\_Trwl\_Sur 25\_12\_Drop\_TS\_Upd\_M 25\_8\_Age\_Upd\_Code

Index

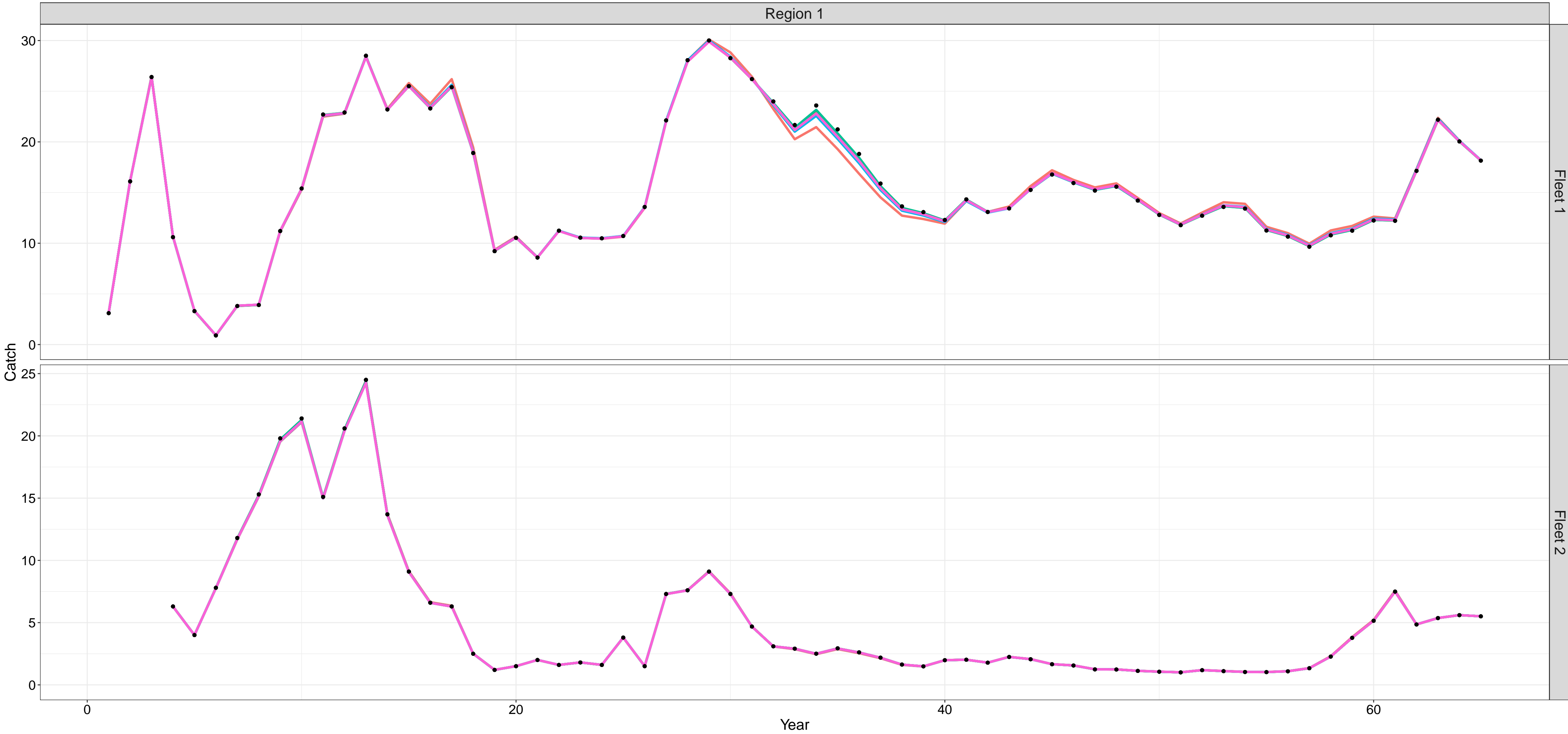


Year

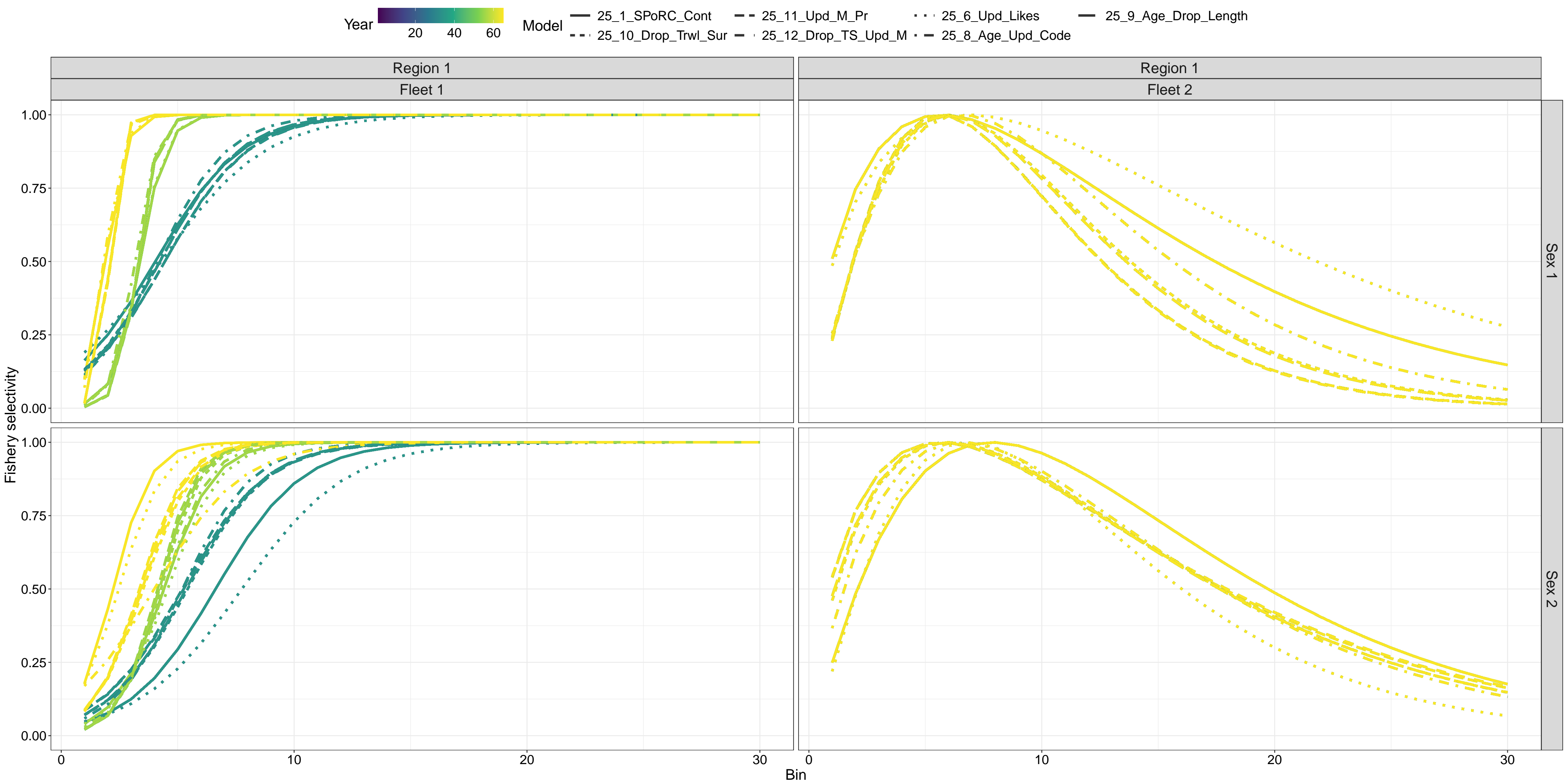


Catch

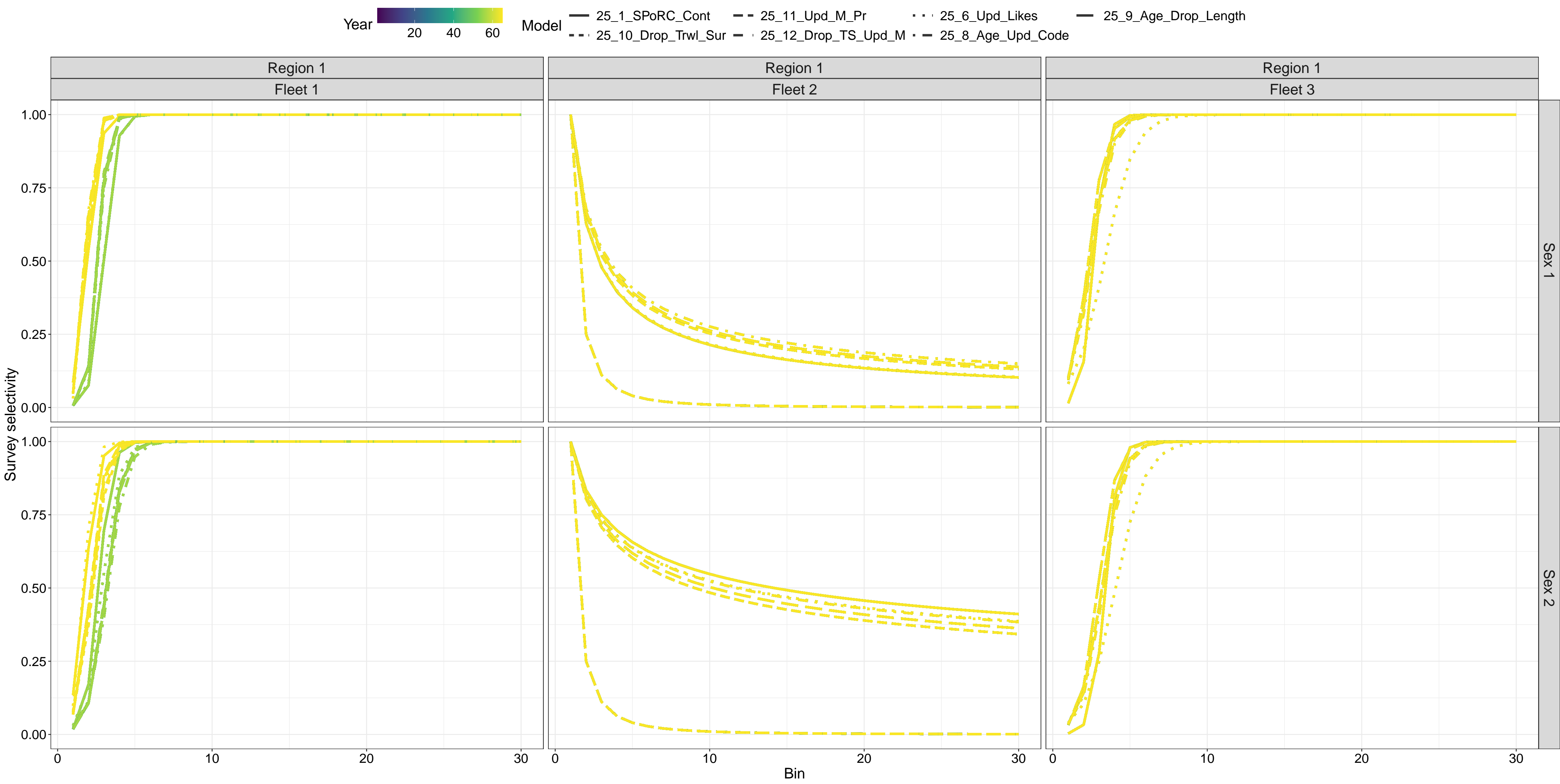
Model 25\_1\_SPoRC\_Cont 25\_11\_Upd\_M\_Pr 25\_6\_Upd\_Likes 25\_9\_Age\_Drop\_Length  
25\_10\_Drop\_Trwl\_Sur 25\_12\_Drop\_TS\_Upd\_M 25\_8\_Age\_Upd\_Code



Fishery Selectivity

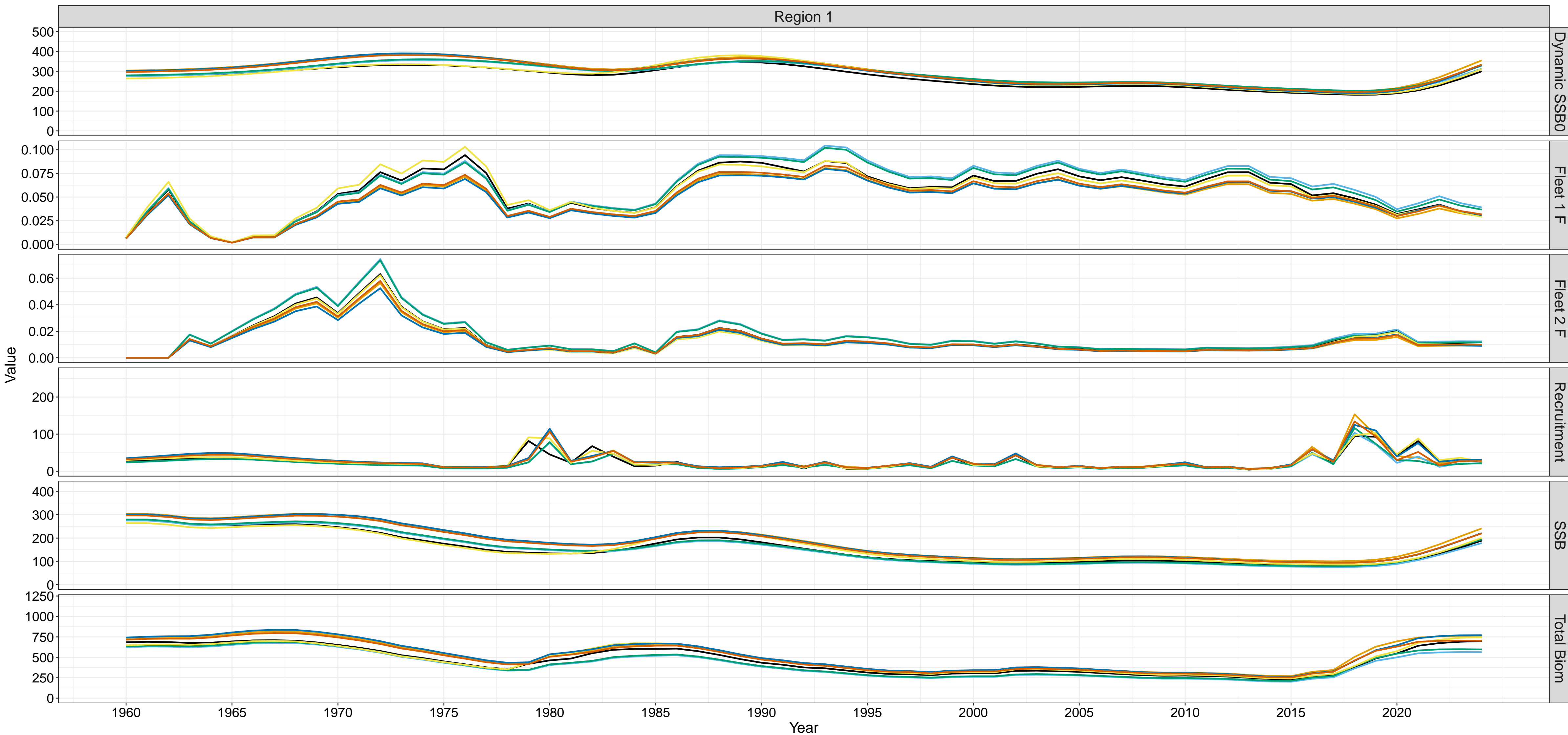


# Survey Selectivity



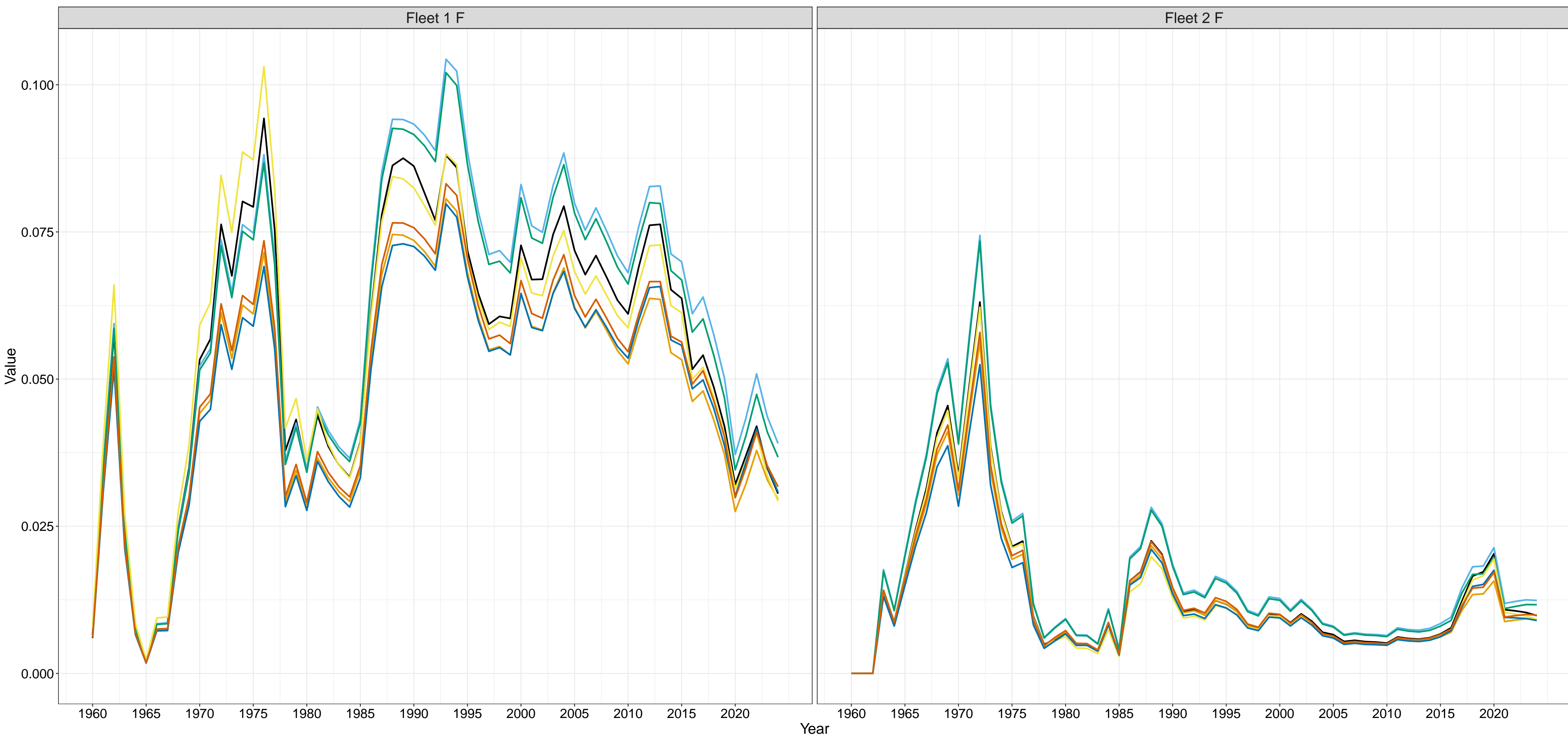
# Time Series Plots

Model 25\_1\_SPoRC\_Cont 25\_11\_Upd\_M\_Pr 25\_6\_Upd\_Likes 25\_9\_Age\_Drop\_Length  
25\_10\_Drop\_Trwl\_Sur 25\_12\_Drop\_TS\_Upd\_M 25\_8\_Age\_Upd\_Code



# Fishing Mortality

Model — 25\_1\_SPoRC\_Cont — 25\_11\_Upd\_M\_Pr — 25\_6\_Upd\_Likes — 25\_9\_Age\_Drop\_Length  
— 25\_10\_Drop\_Trwl\_Sur — 25\_12\_Drop\_TS\_Upd\_M — 25\_8\_Age\_Upd\_Code

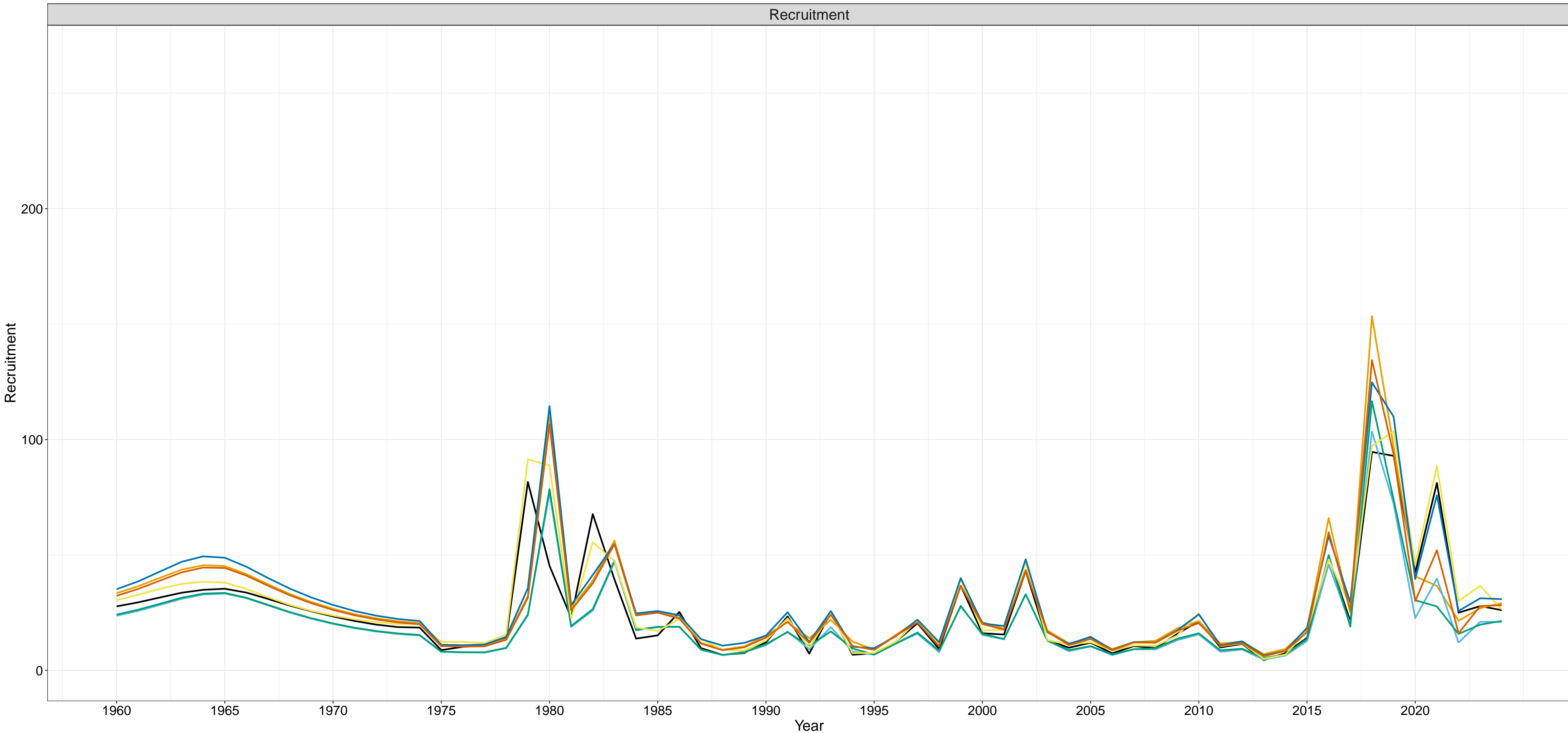




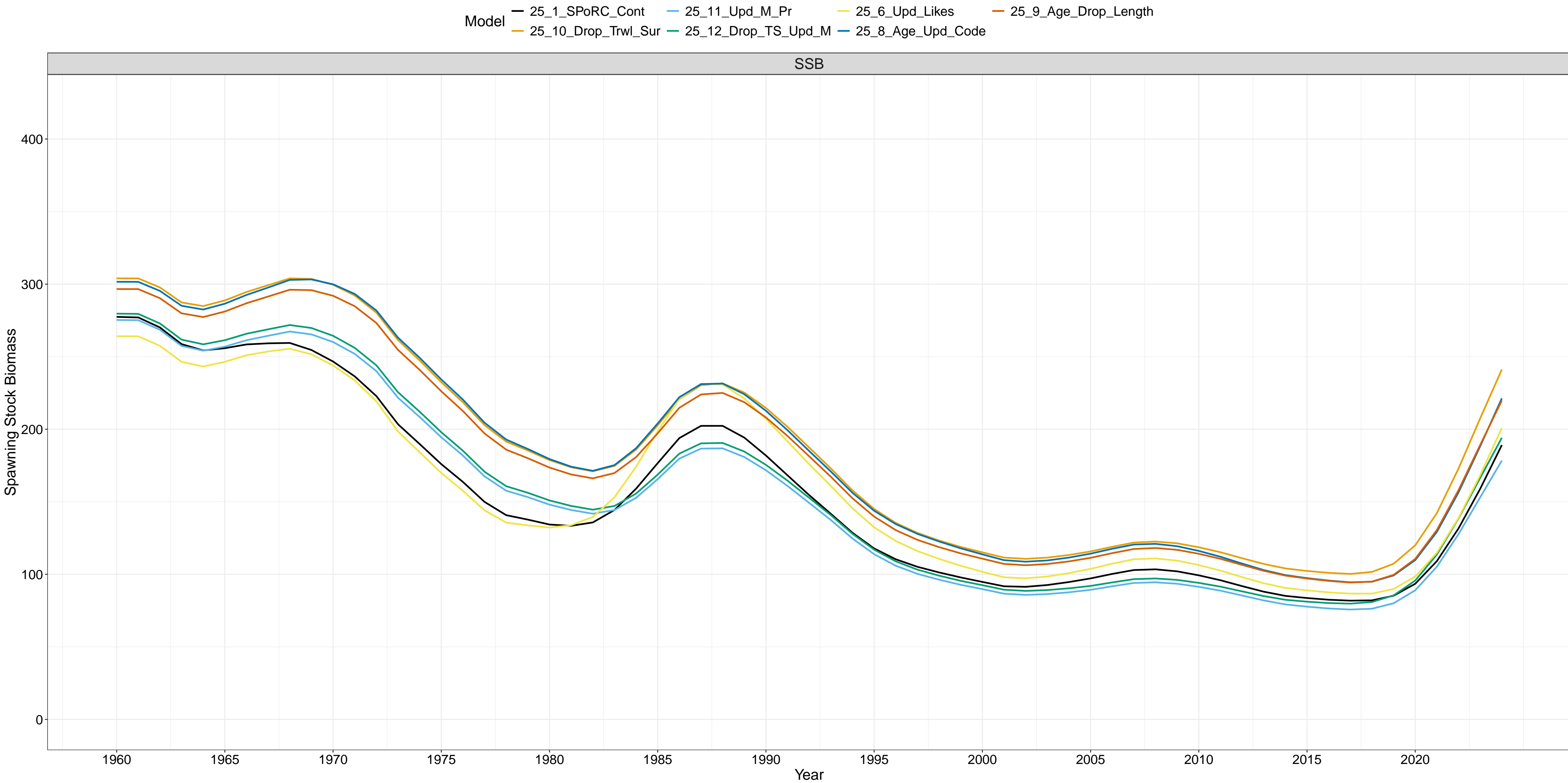
# Recruitment

Model

25_1_SPoRC_Cont	25_11_Upd_M_Pr	25_6_Upd_Likes	25_9_Age_Drop_Length
25_10_Drop_Trwl_Sur	25_12_Drop_TS_Upd_M	25_8_Age_Upd_Code	

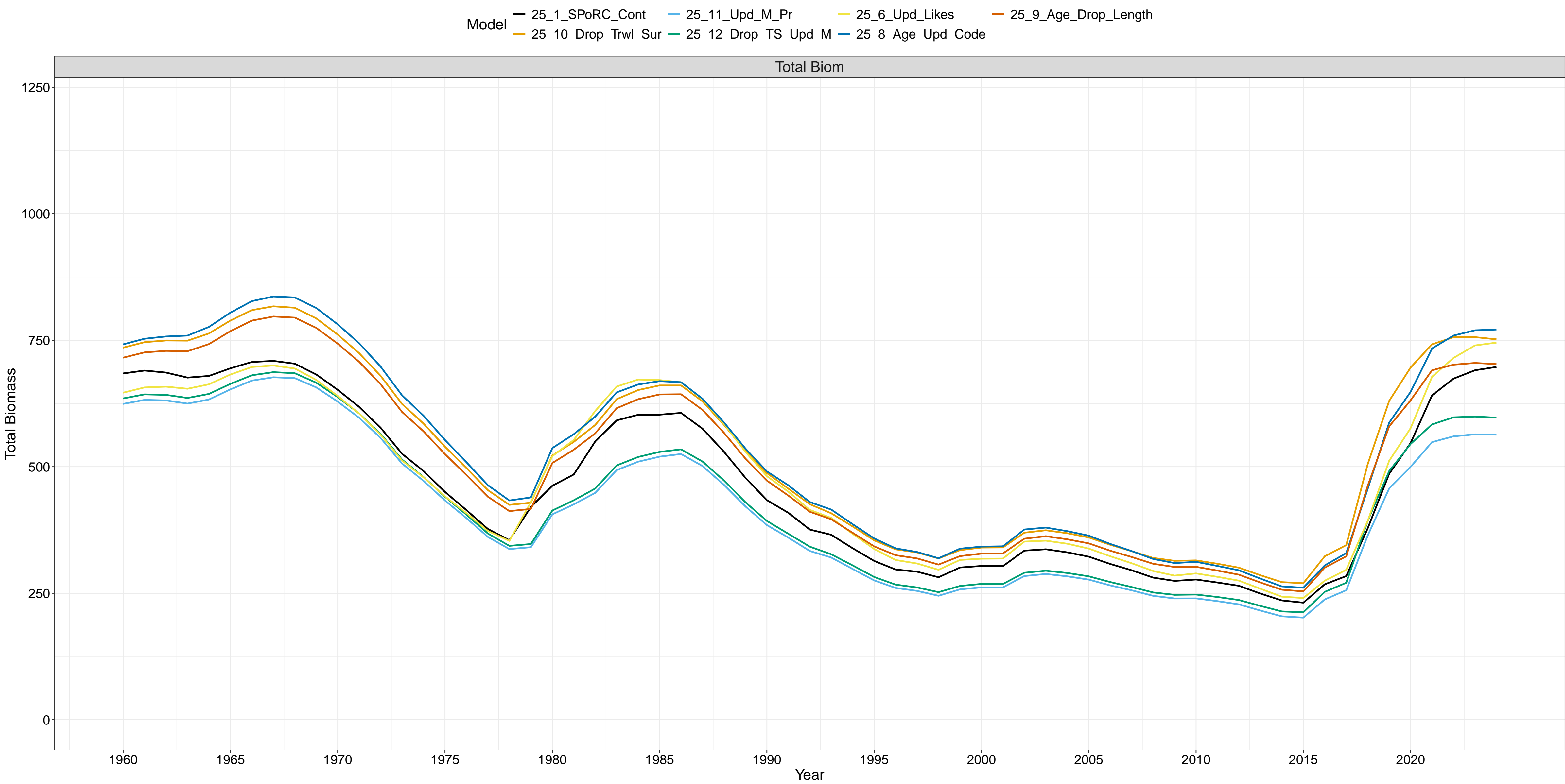


## SSB





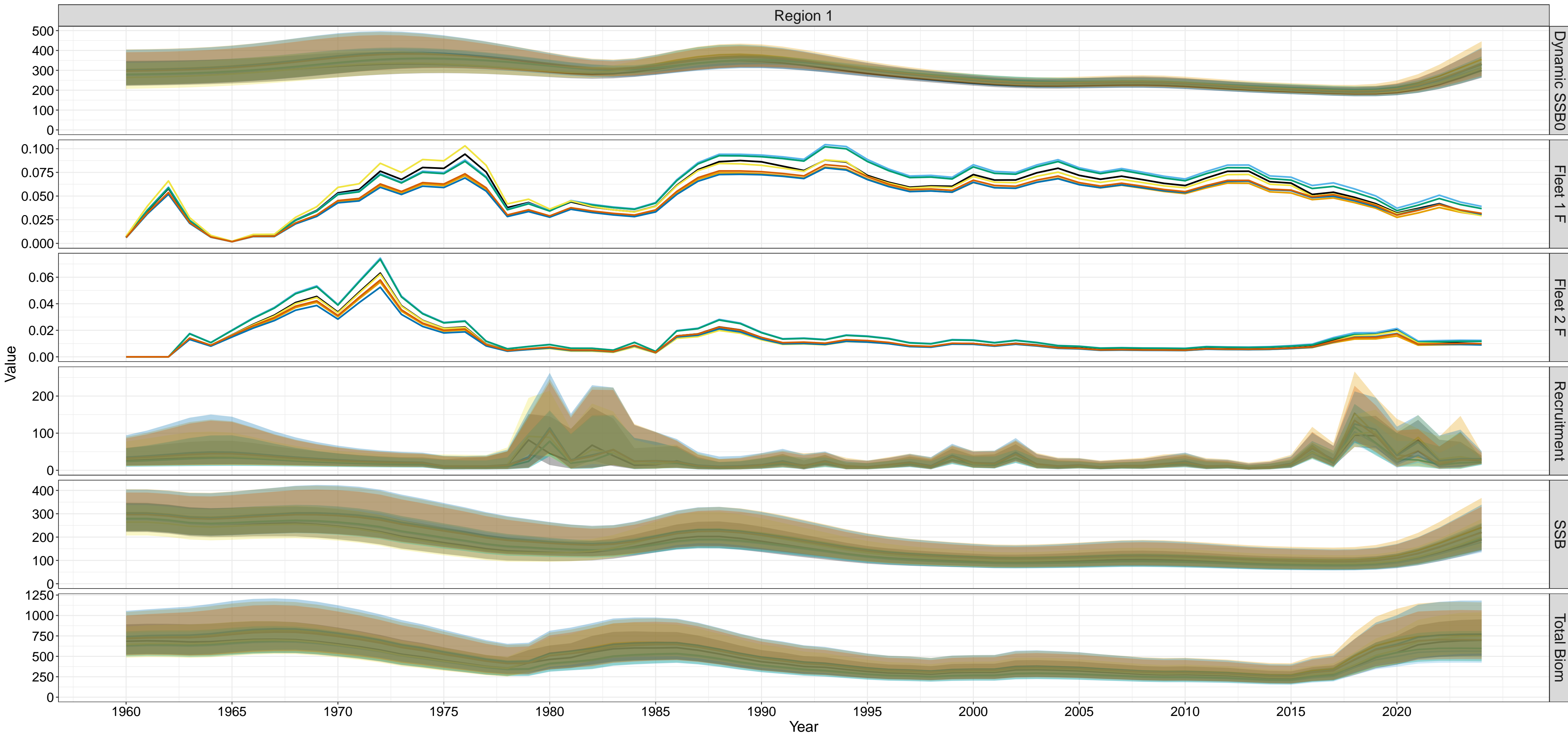
# Biomass



# Time Series Plots

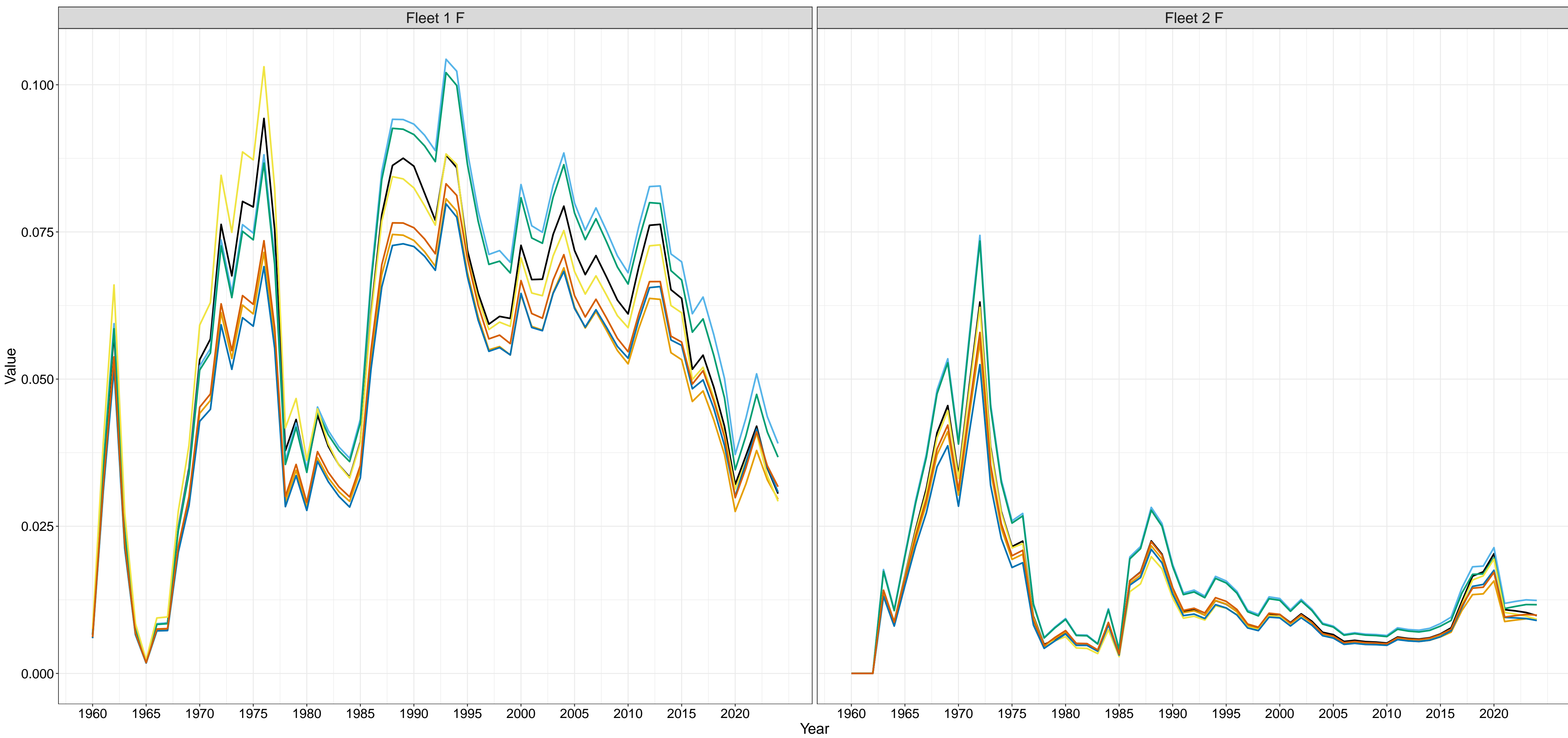
Model

25_1_SPoRC_Cont	25_11_Upd_M_Pr	25_6_Upd_Likes	25_9_Age_Drop_Length
25_10_Drop_Trwl_Sur	25_12_Drop_TS_Upd_M	25_8_Age_Upd_Code	



# Fishing Mortality

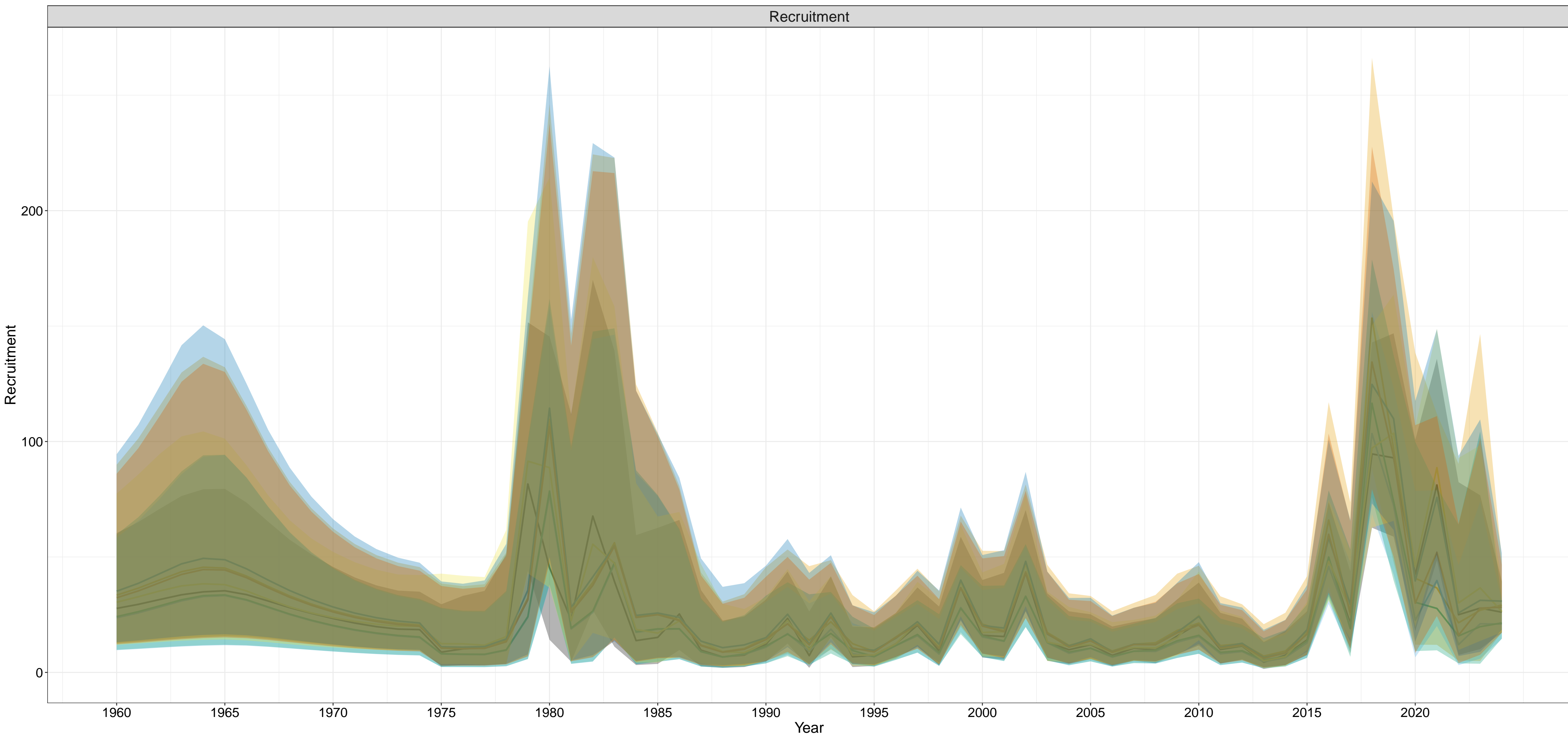
Model — 25\_1\_SPoRC\_Cont — 25\_11\_Upd\_M\_Pr — 25\_6\_Upd\_Likes — 25\_9\_Age\_Drop\_Length  
— 25\_10\_Drop\_Trwl\_Sur — 25\_12\_Drop\_TS\_Upd\_M — 25\_8\_Age\_Upd\_Code



# Recruitment

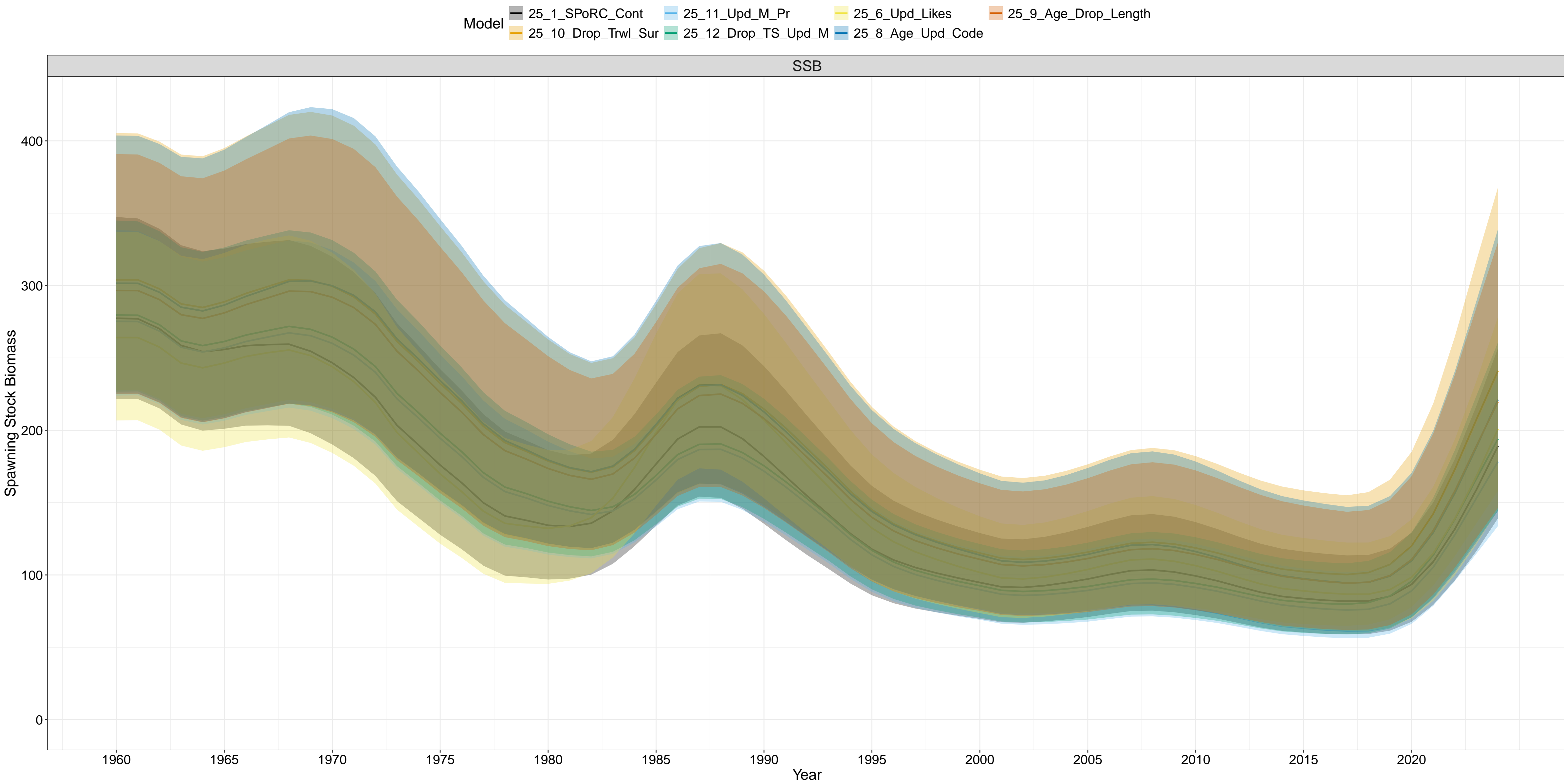
Model

25_1_SPoRC_Cont	25_11_Upd_M_Pr	25_6_Upd_Likes	25_9_Age_Drop_Length
25_10_Drop_Trwl_Sur	25_12_Drop_TS_Upd_M	25_8_Age_Upd_Code	





## SSB



# Biomass

