

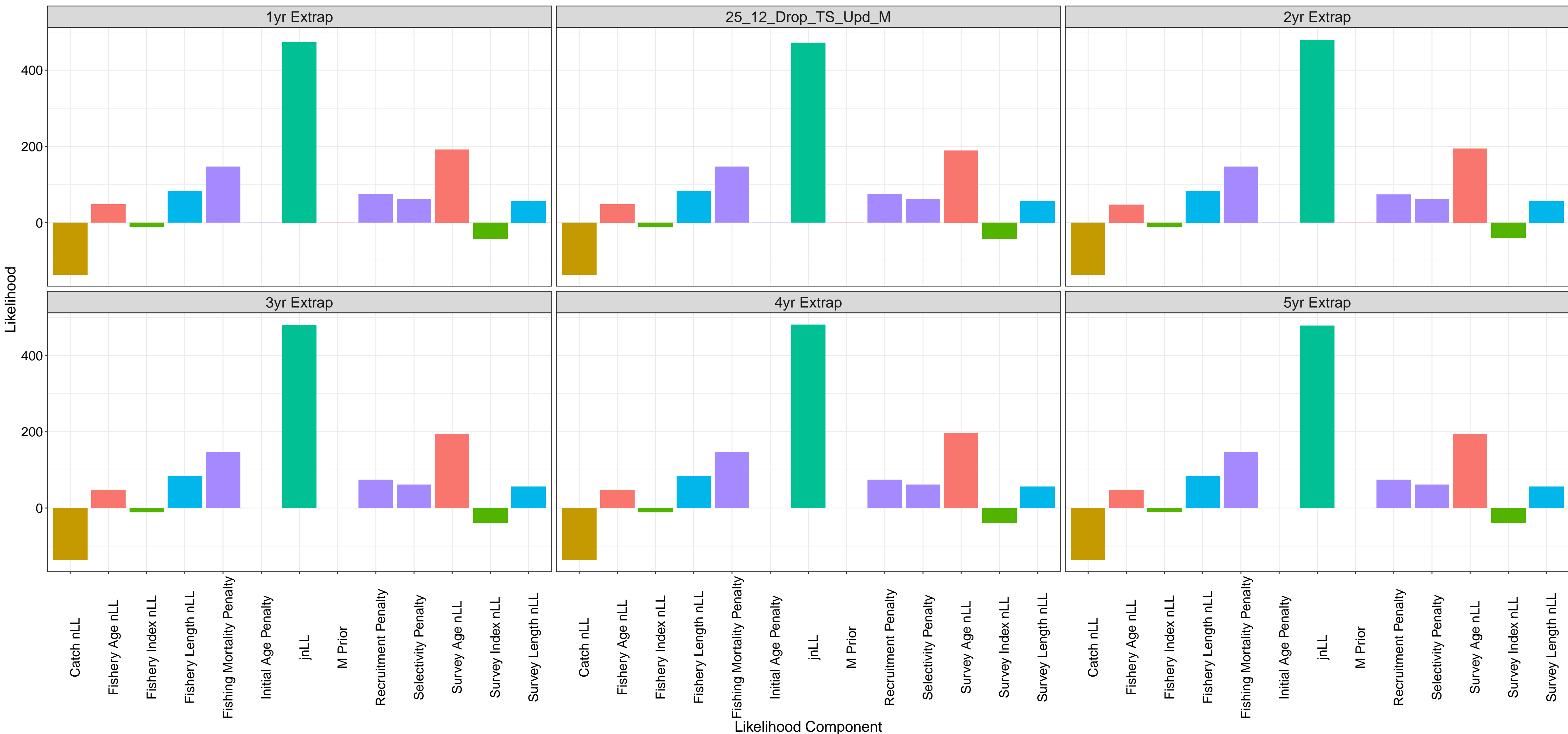
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	25_12_Drop_TS_Upd_M	1	194.0907	0.04842486	39.55329	126.6058	0.08308	1.53303	0.58289
2	1yr Extrap	1	191.1419	0.04965690	38.52175	125.5654	0.08307	1.52225	0.59778
3	2yr Extrap	1	186.5679	0.05141906	37.14445	124.6885	0.08281	1.49627	0.62091
4	3yr Extrap	1	186.3026	0.05122405	37.23971	124.9923	0.08268	1.49051	0.61955
5	4yr Extrap	1	189.6364	0.05008877	38.11225	125.8579	0.08268	1.50675	0.60584
6	5yr Extrap	1	195.8136	0.04863375	39.38514	127.0446	0.08309	1.54130	0.58534

	Model	jnLL	M Prior	Recruitment Penalty	Selectivity 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
1	25_12_Drop_TS_Upd_M	471.8339	−0.2370536	74.67764	61.83381	−136.2188	146.9955	−42.64644	−10.95465	0.2847093	189.5774	48.50805	56.40044	83.61324
2	1yr Extrap	473.3295	−0.2700448	74.60639	61.81432	−136.2070	146.9961	−42.47958	−11.02231	0.2841271	191.9075	47.95818	56.42851	83.31323
3	2yr Extrap	477.7631	−0.3512334	74.29266	61.79895	−136.2006	147.0424	−39.73944	−11.14549	0.2865230	194.4846	47.44587	56.44205	83.40680
4	3yr Extrap	479.8848	−0.3742860	74.28466	61.79794	−136.2039	147.0588	−38.48449	−11.21077	0.2860443	195.0263	47.68099	56.44473	83.57874
5	4yr Extrap	481.0608	−0.3532789	74.33321	61.80794	−136.2047	147.0612	−39.43985	−11.00543	0.2841882	196.4669	47.59479	56.46034	84.05558
6	5yr Extrap	478.4144	−0.2247597	74.14210	61.80474	−136.2470	147.0719	−39.80774	−10.72003	0.2780641	194.2471	47.73490	56.50392	83.63122

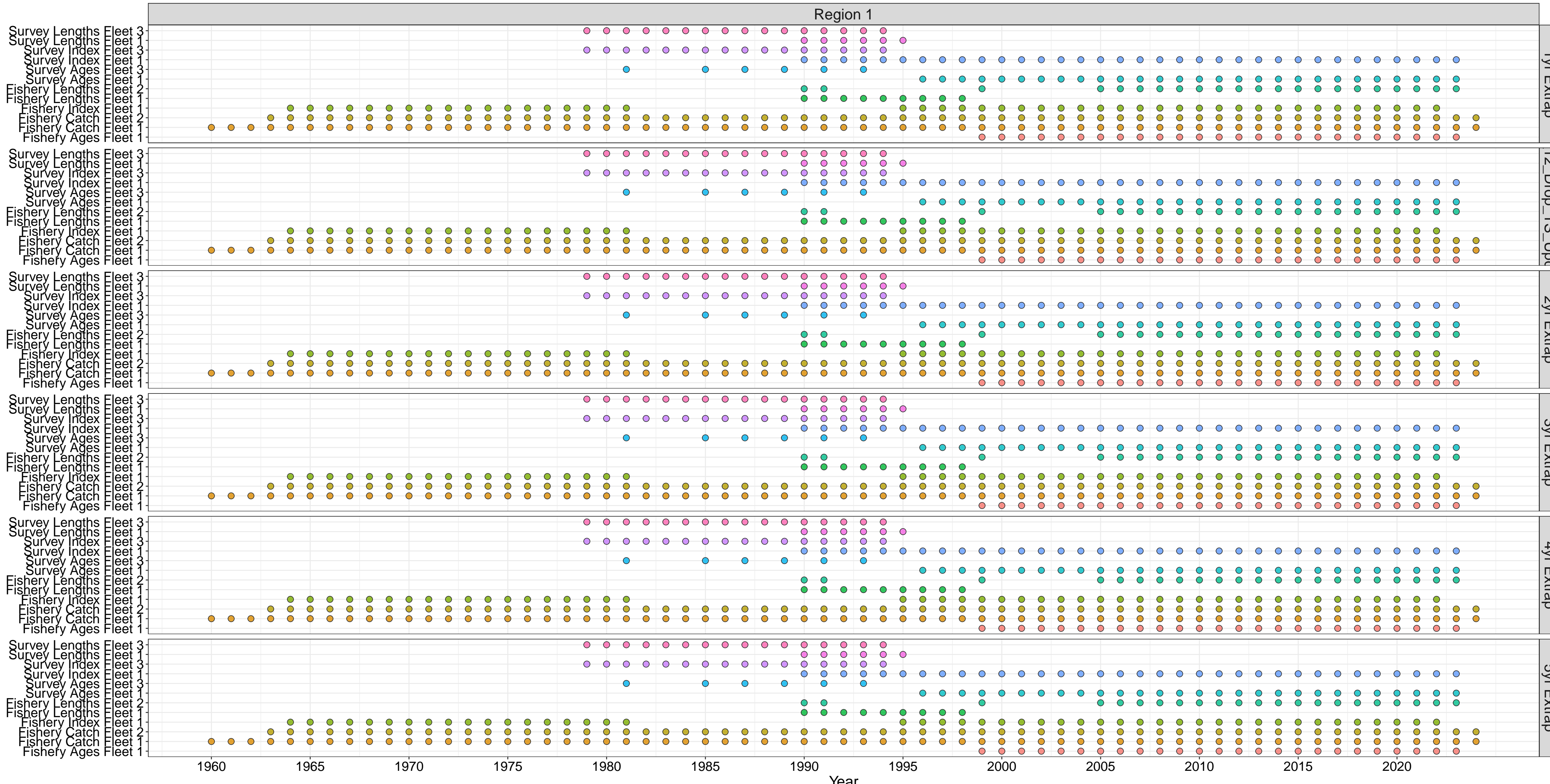
Negative Log-Likelihood

Type

Age	Index	Length	Prior
Catch	jnLL	Penalty	

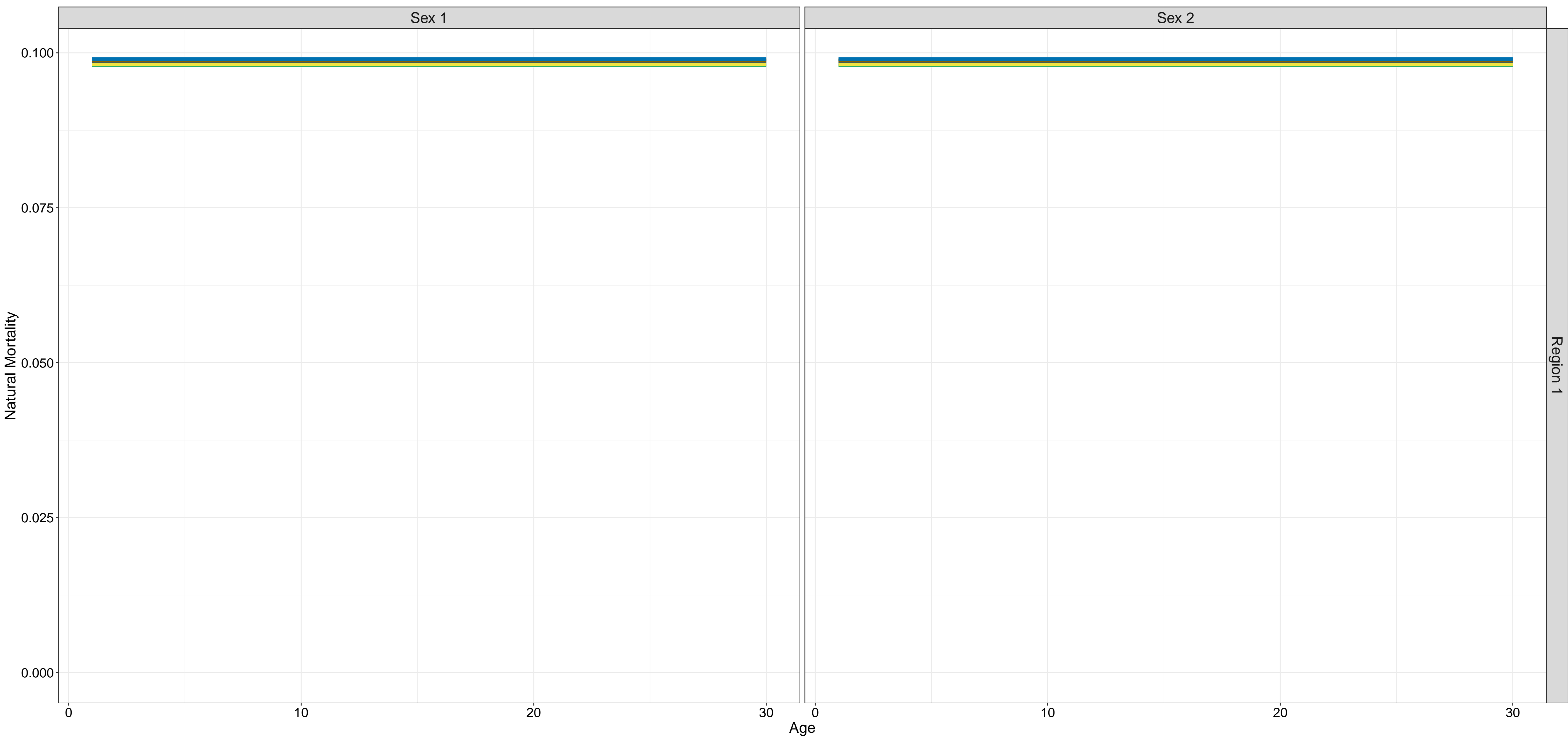


Data

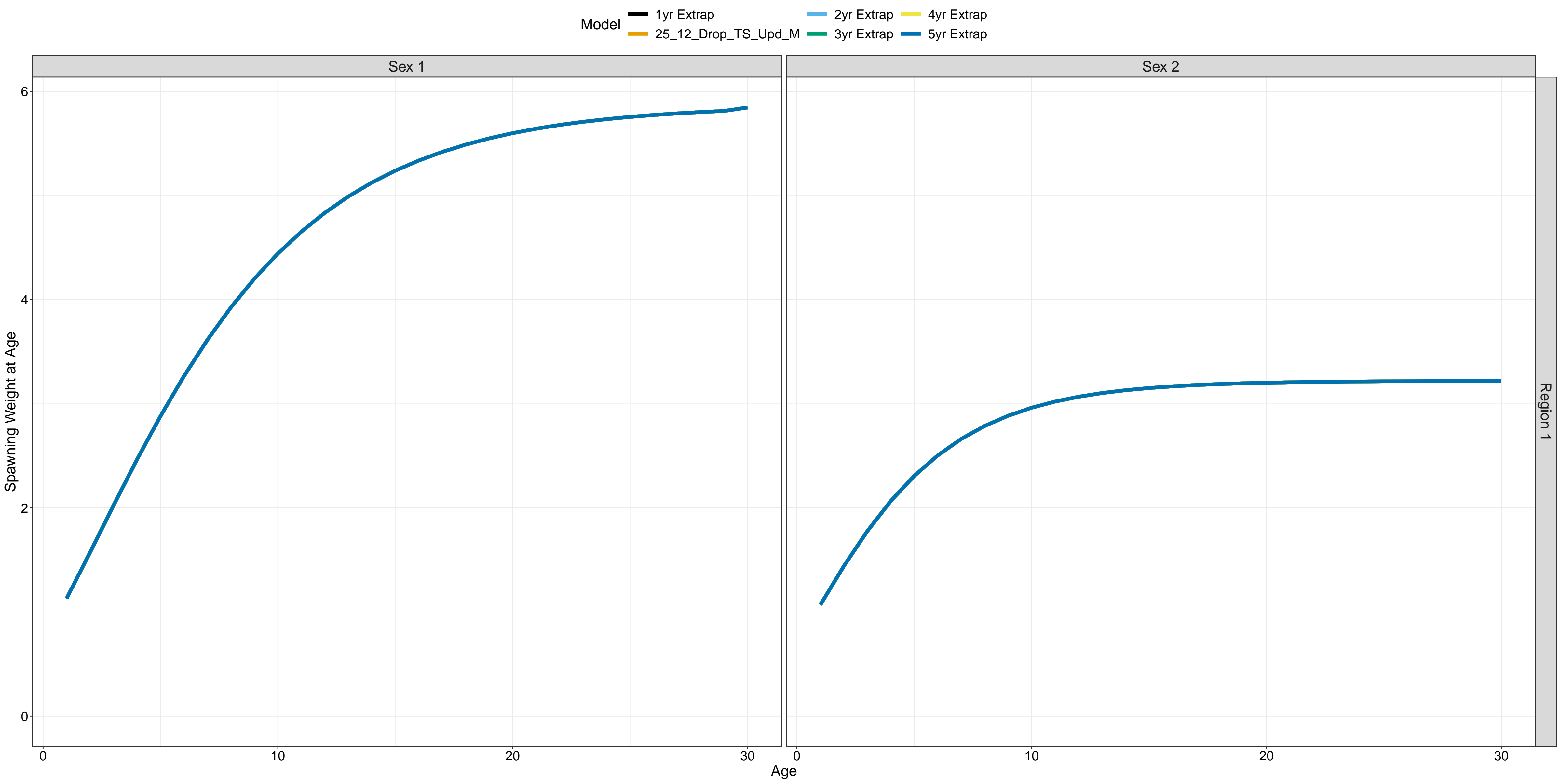


Natural Mortality

Model 1yr Extrap 2yr Extrap 4yr Extrap
 25_12_Drop_TS_Upd_M 3yr Extrap 5yr Extrap



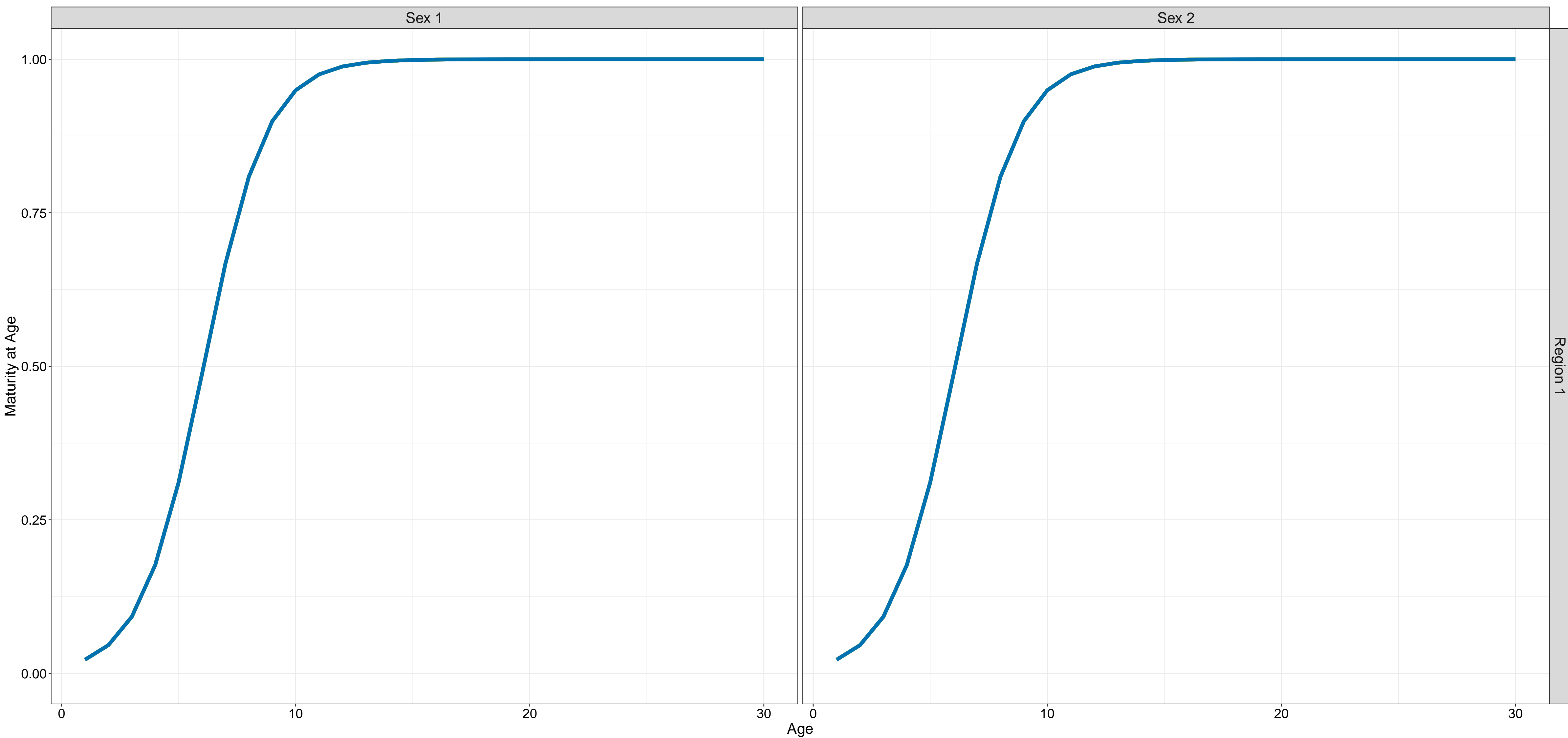
Weight-at-Age



Maturity

Model

- 1yr Extrap
- 25_12_Drop_TS_Upd_M
- 2yr Extrap
- 3yr Extrap
- 4yr Extrap
- 5yr Extrap

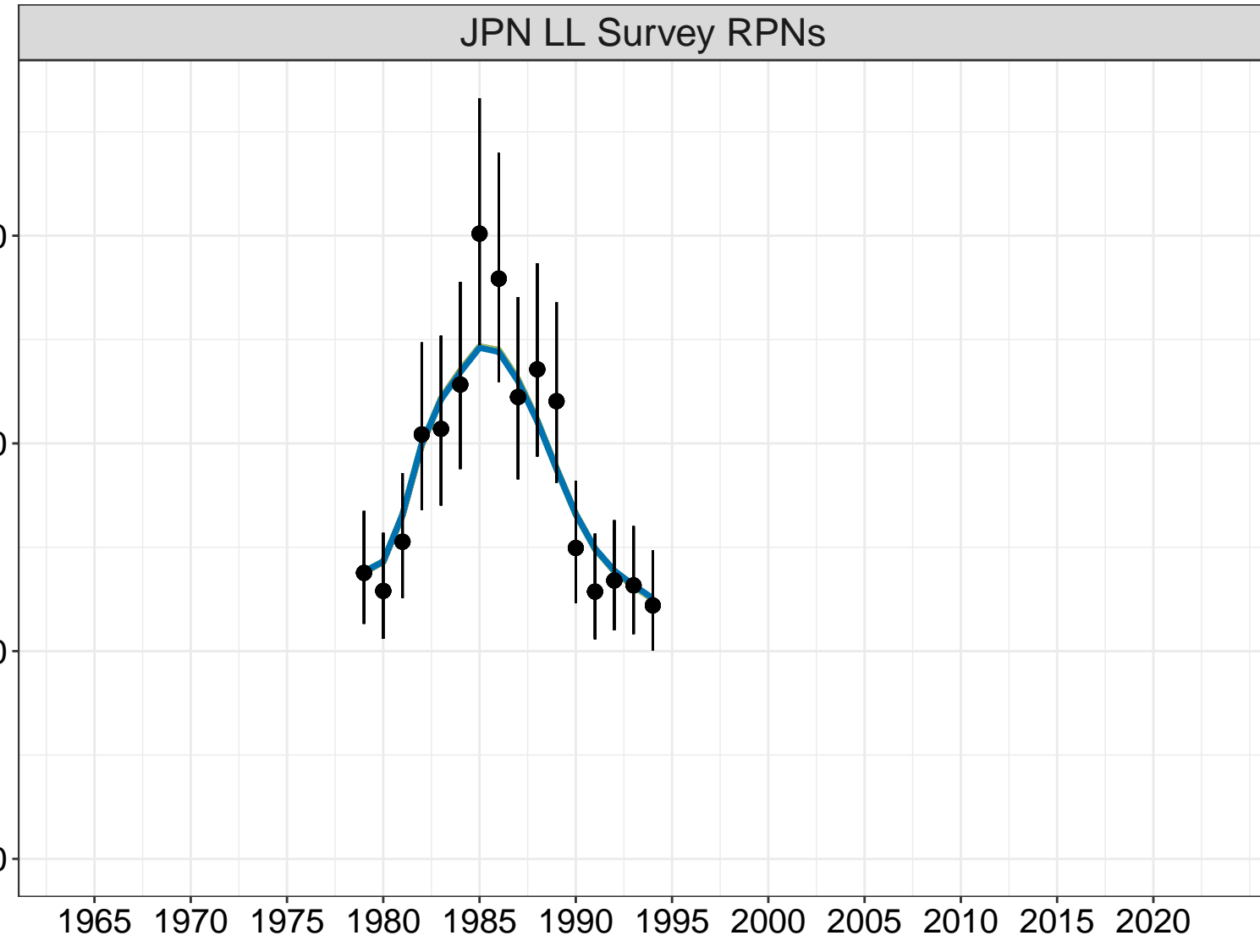
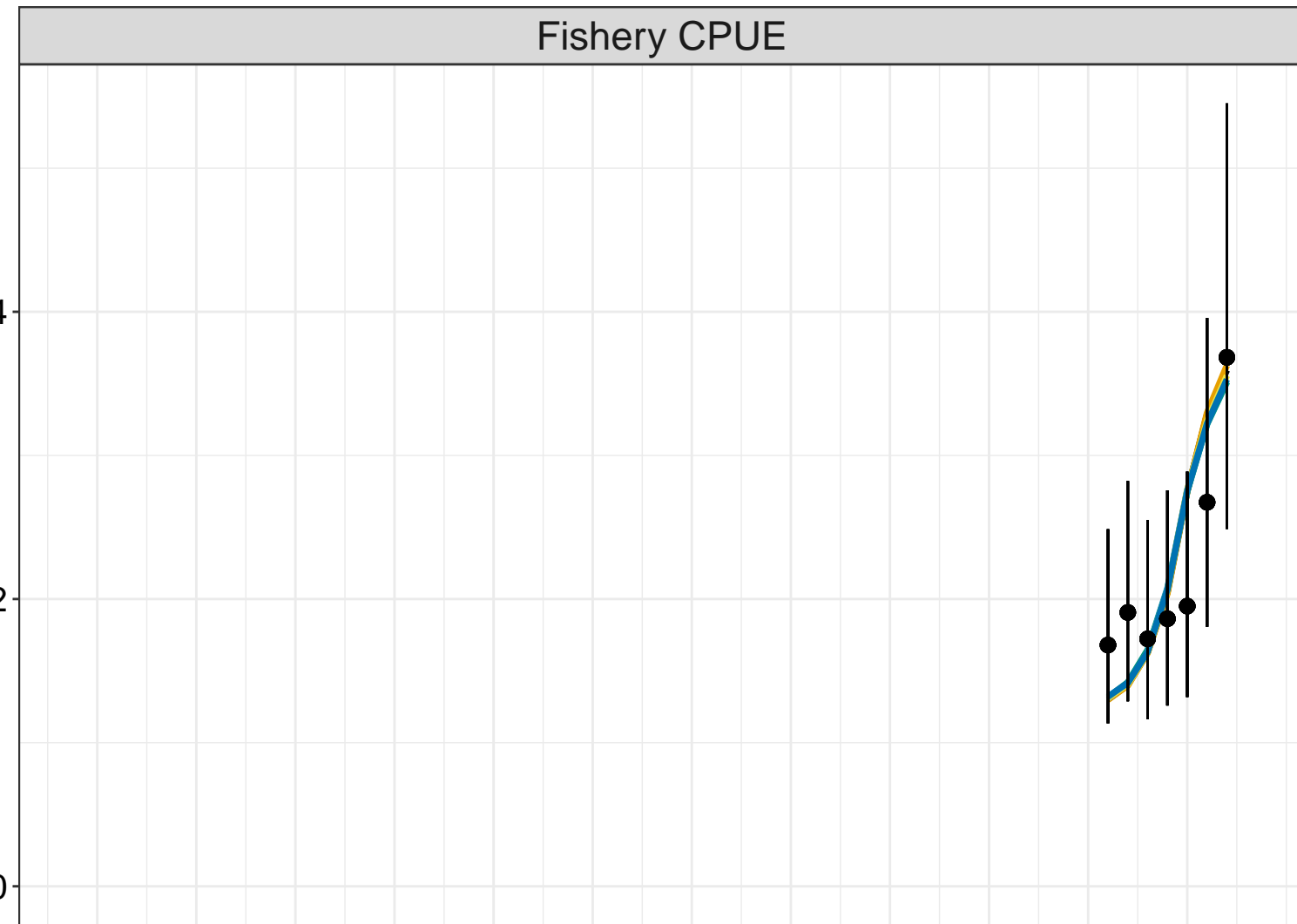
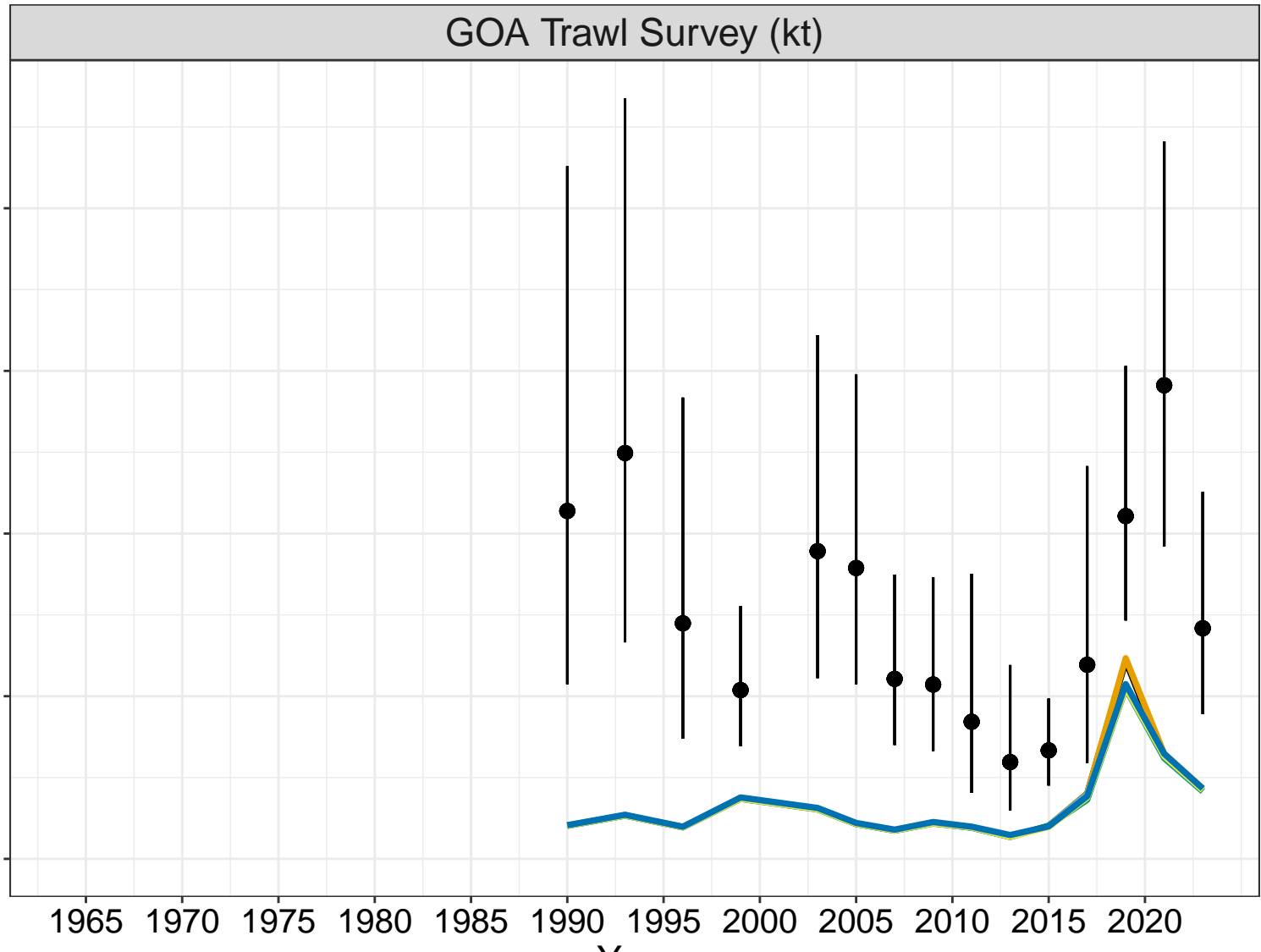
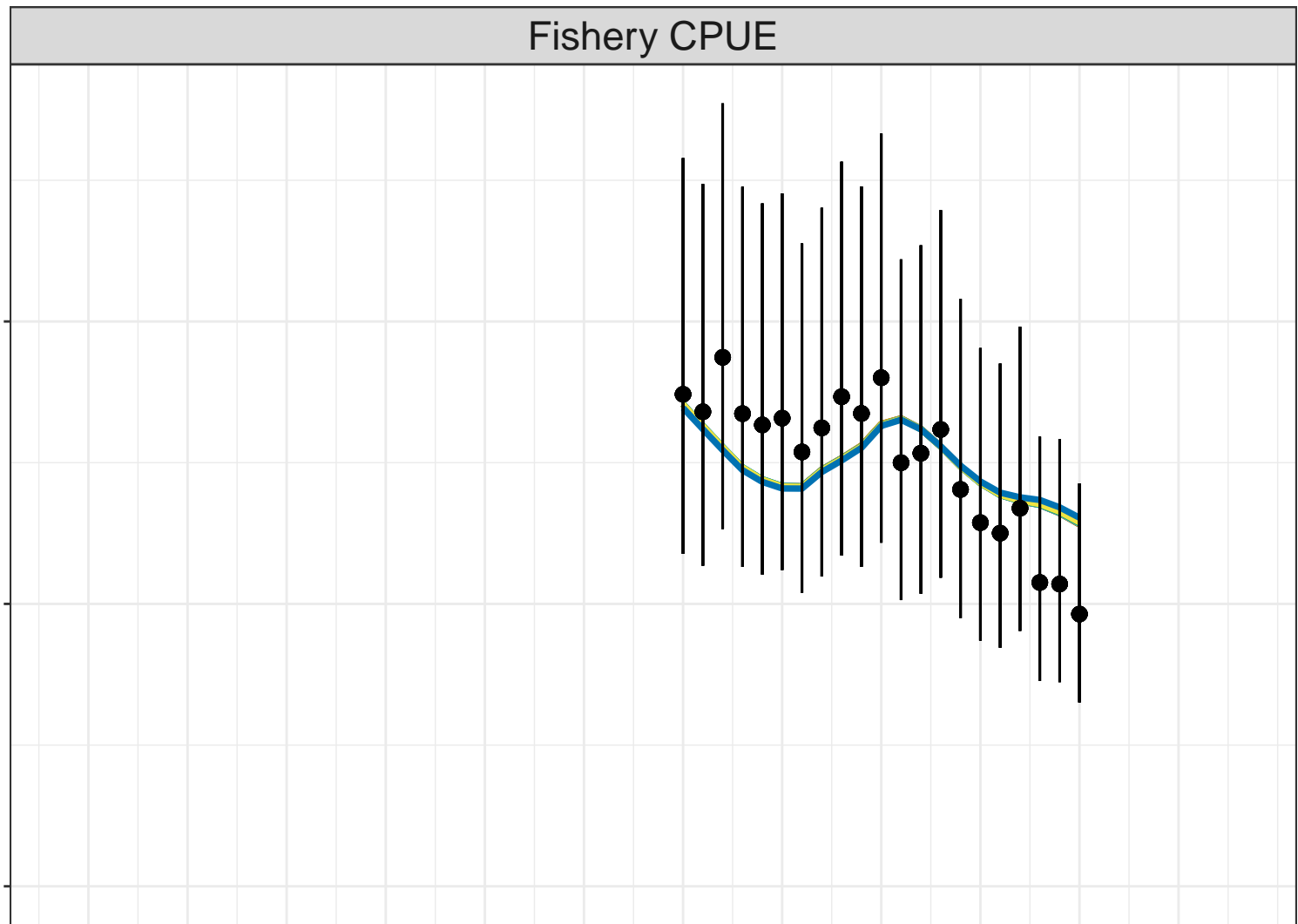
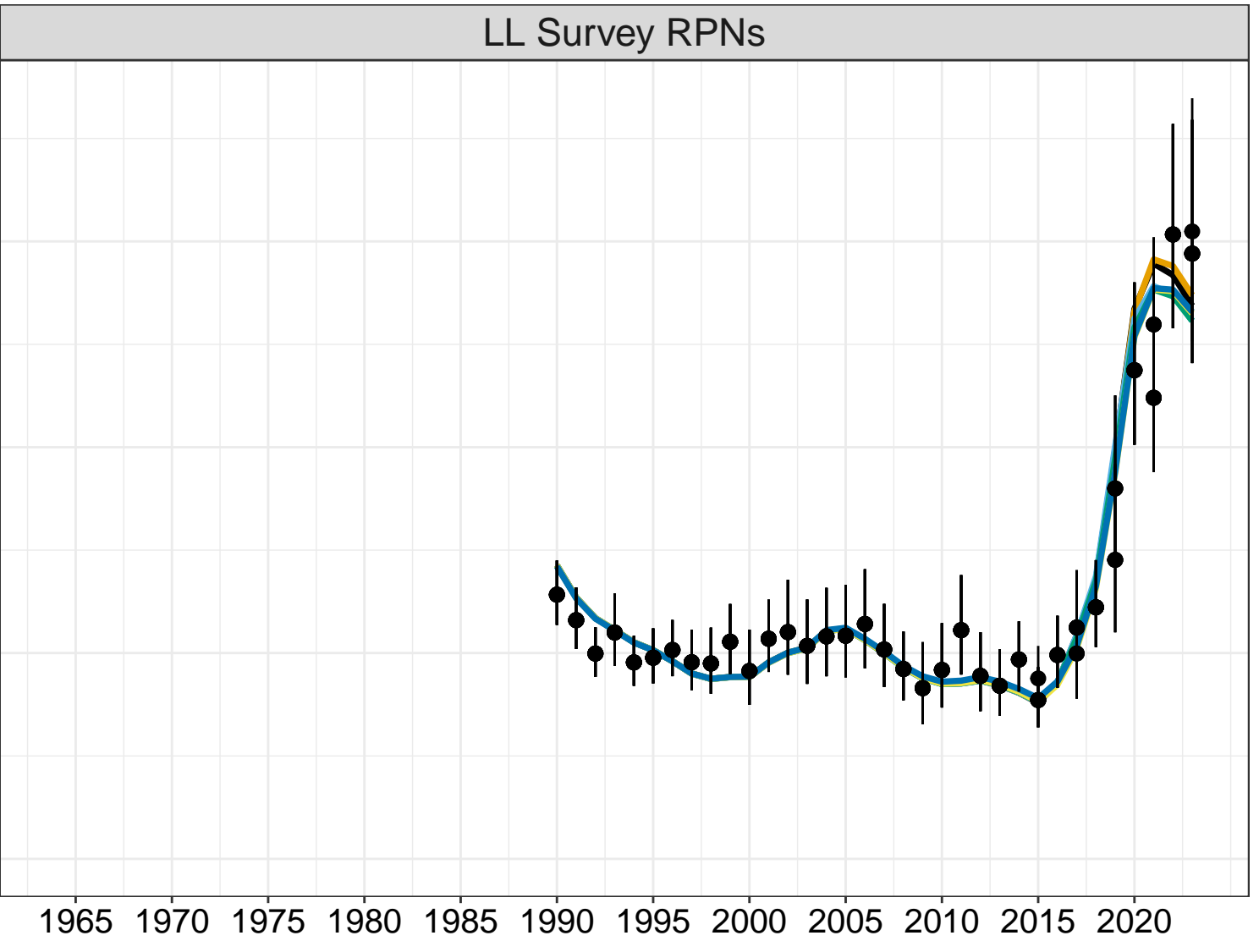
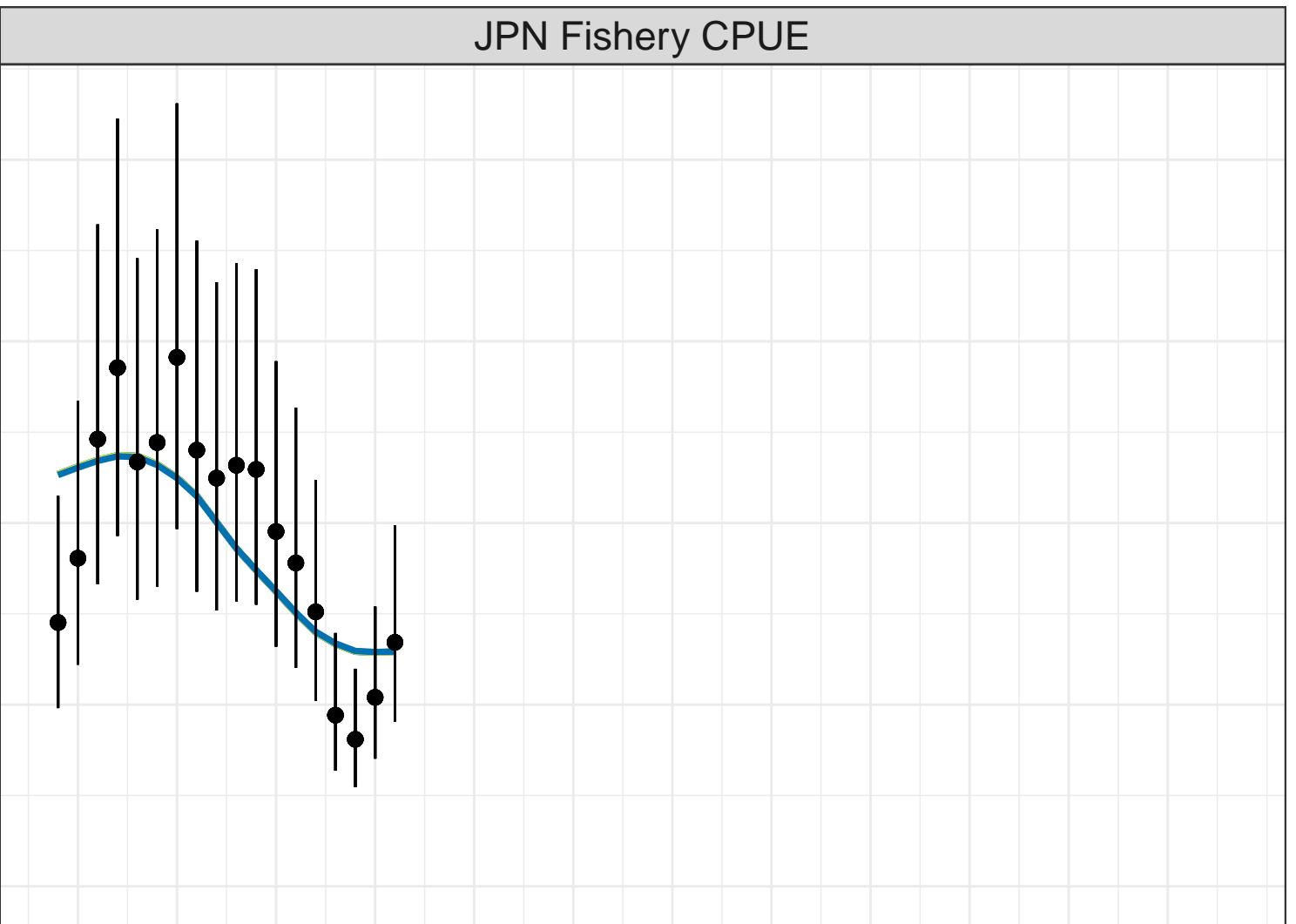


Region 1

Index Fits

Model 1yr Extrap 2yr Extrap 4yr Extrap
 25_12_Drop_TS_Upd_M 3yr Extrap 5yr Extrap

Index



Year

Catch

- Model
- 1yr Extrap

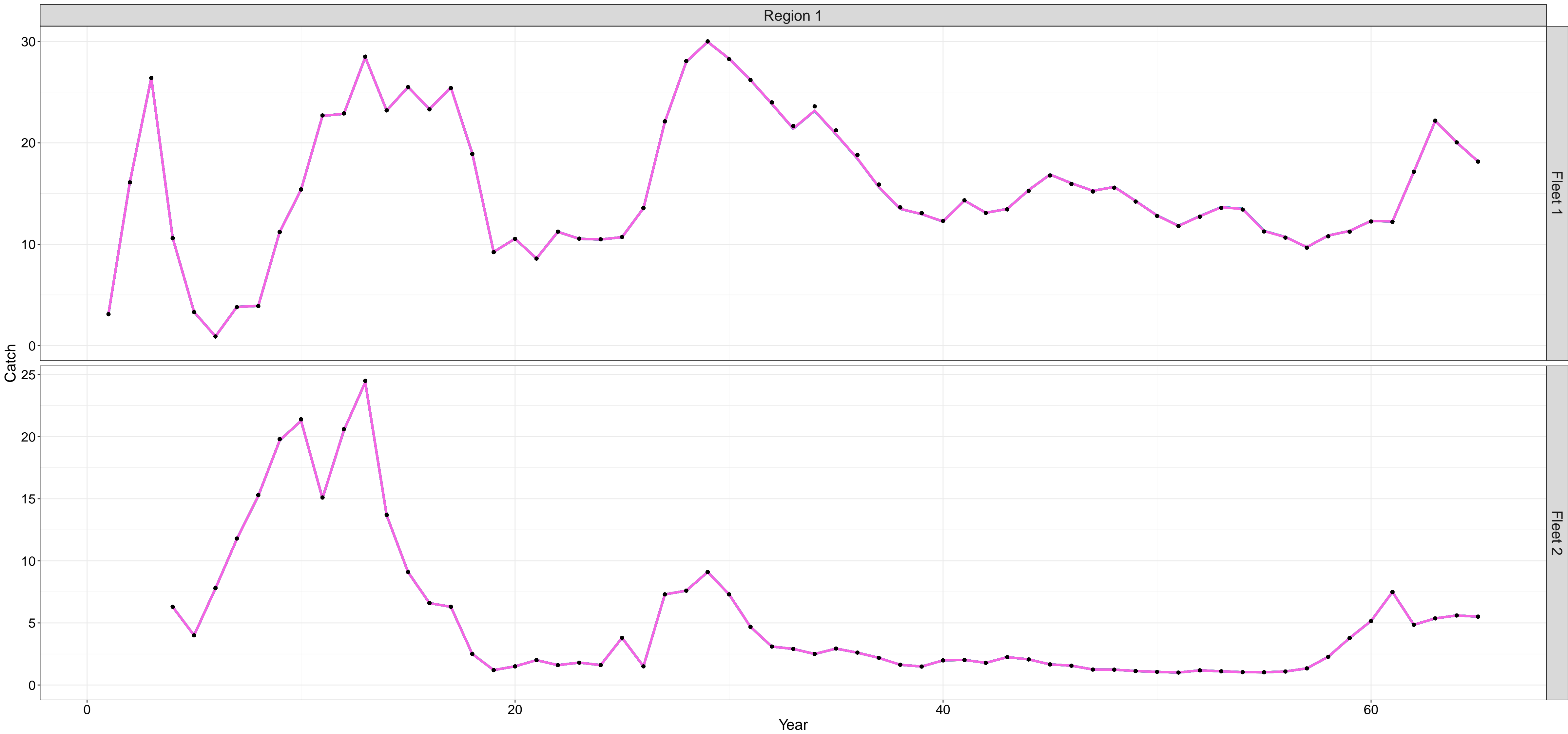
2yr Extrap

4yr Extrap

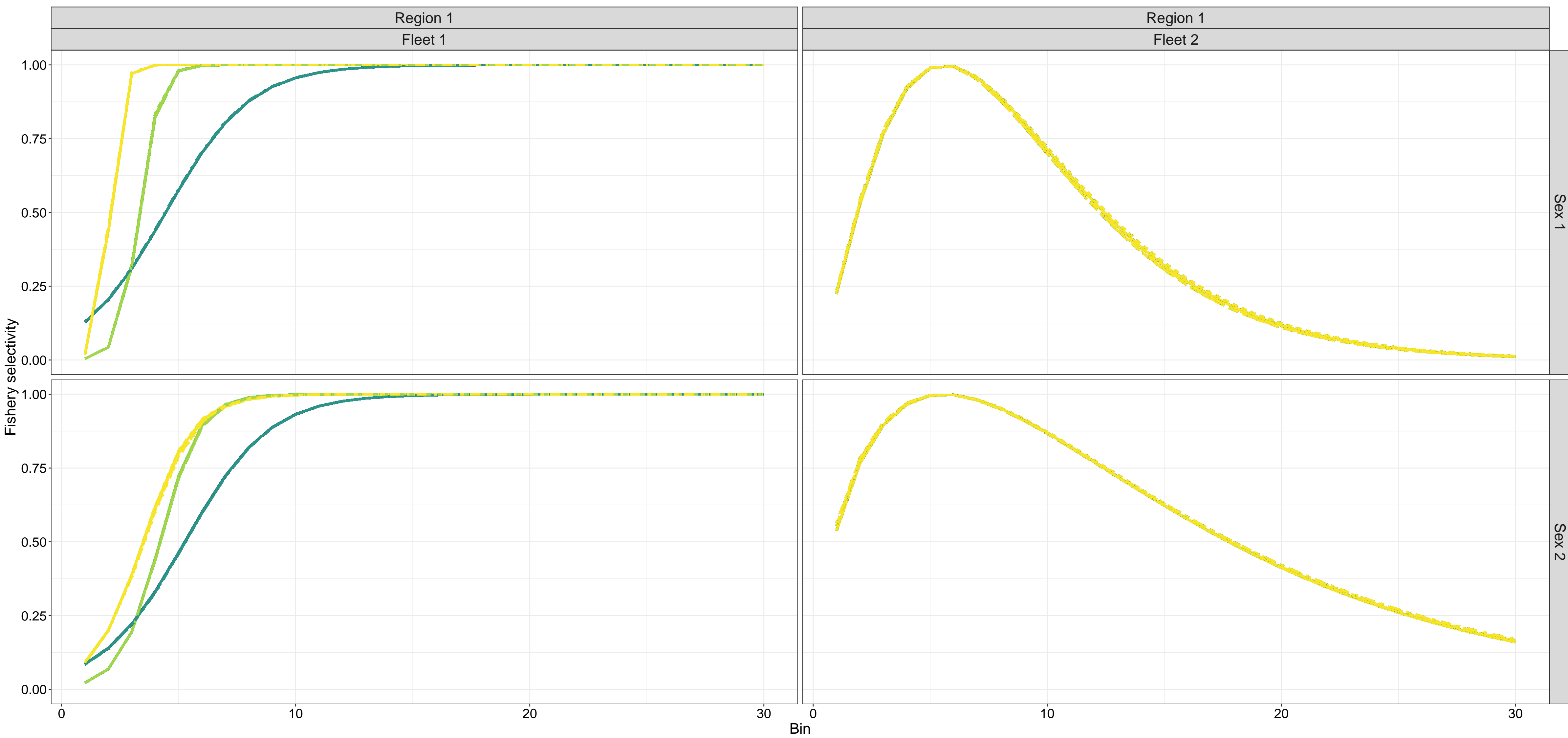
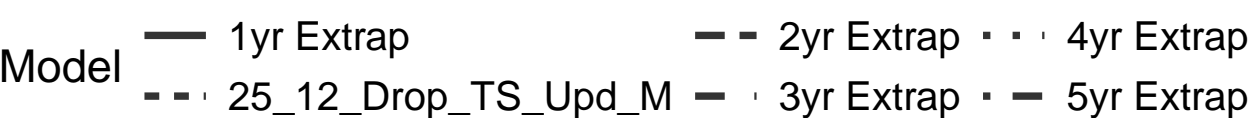
25_12_Drop_TS_Upd_M

3yr Extrap

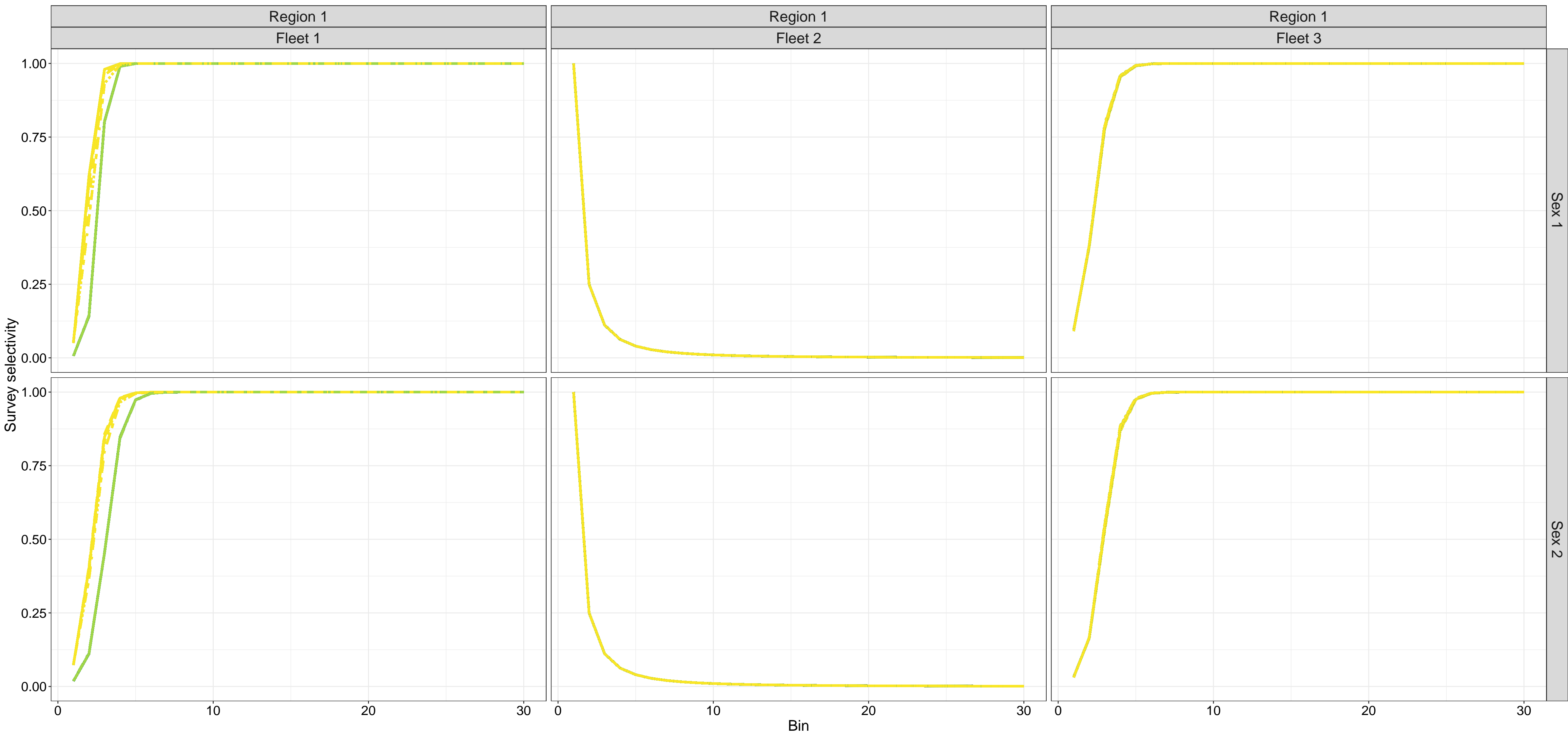
5yr Extrap



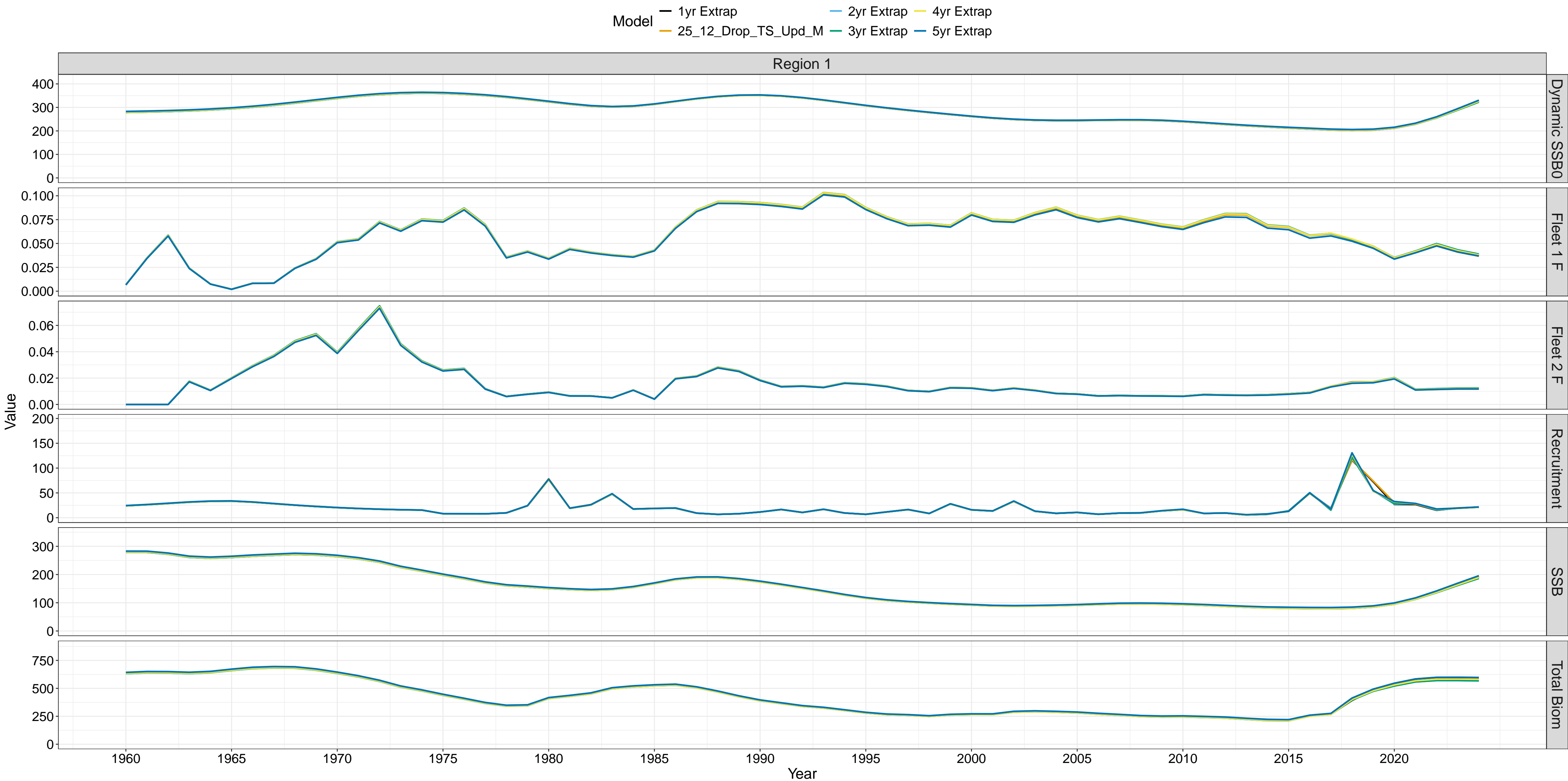
Fishery Selectivity



Survey Selectivity



Time Series Plots

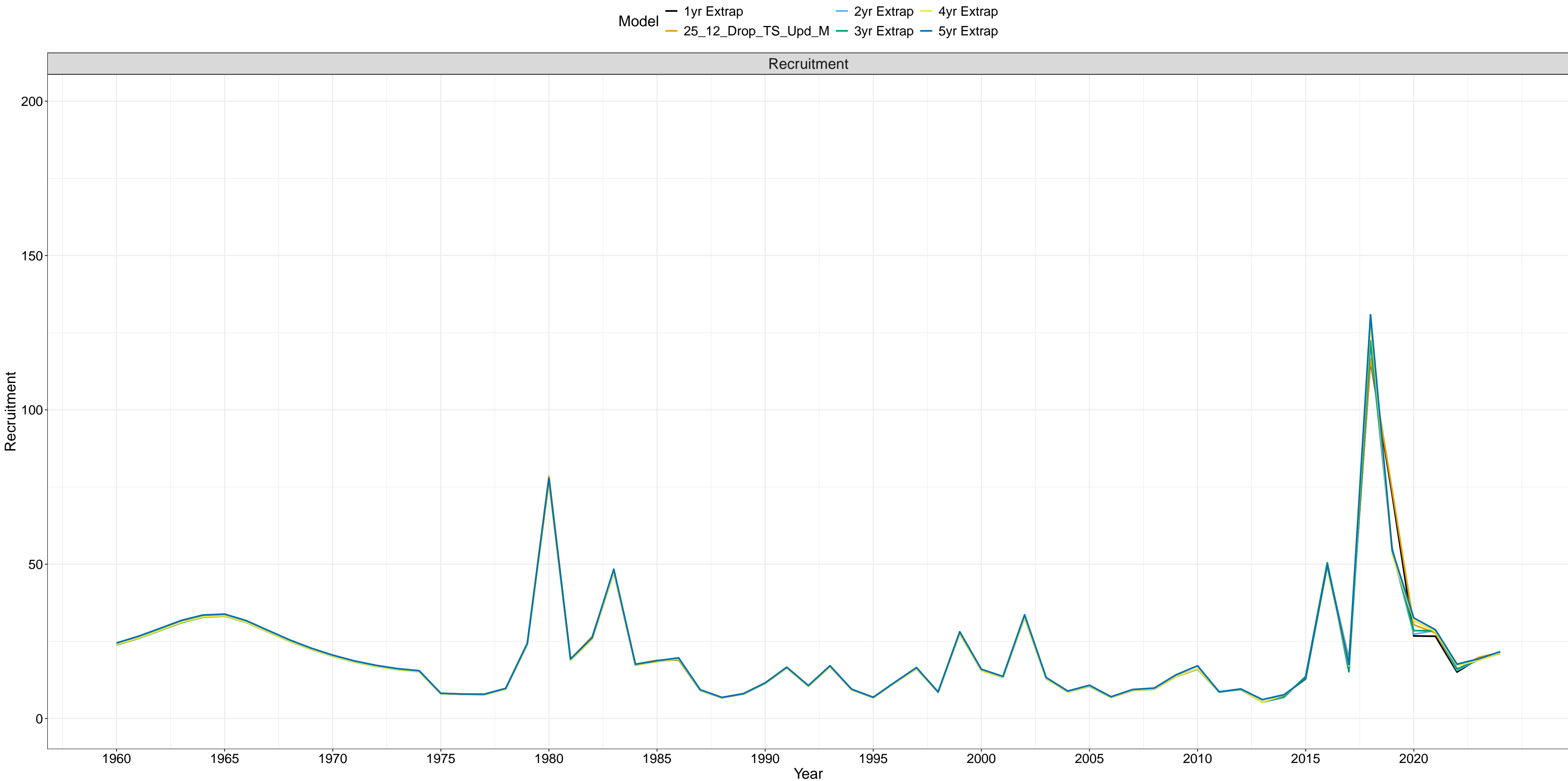


Fishing Mortality

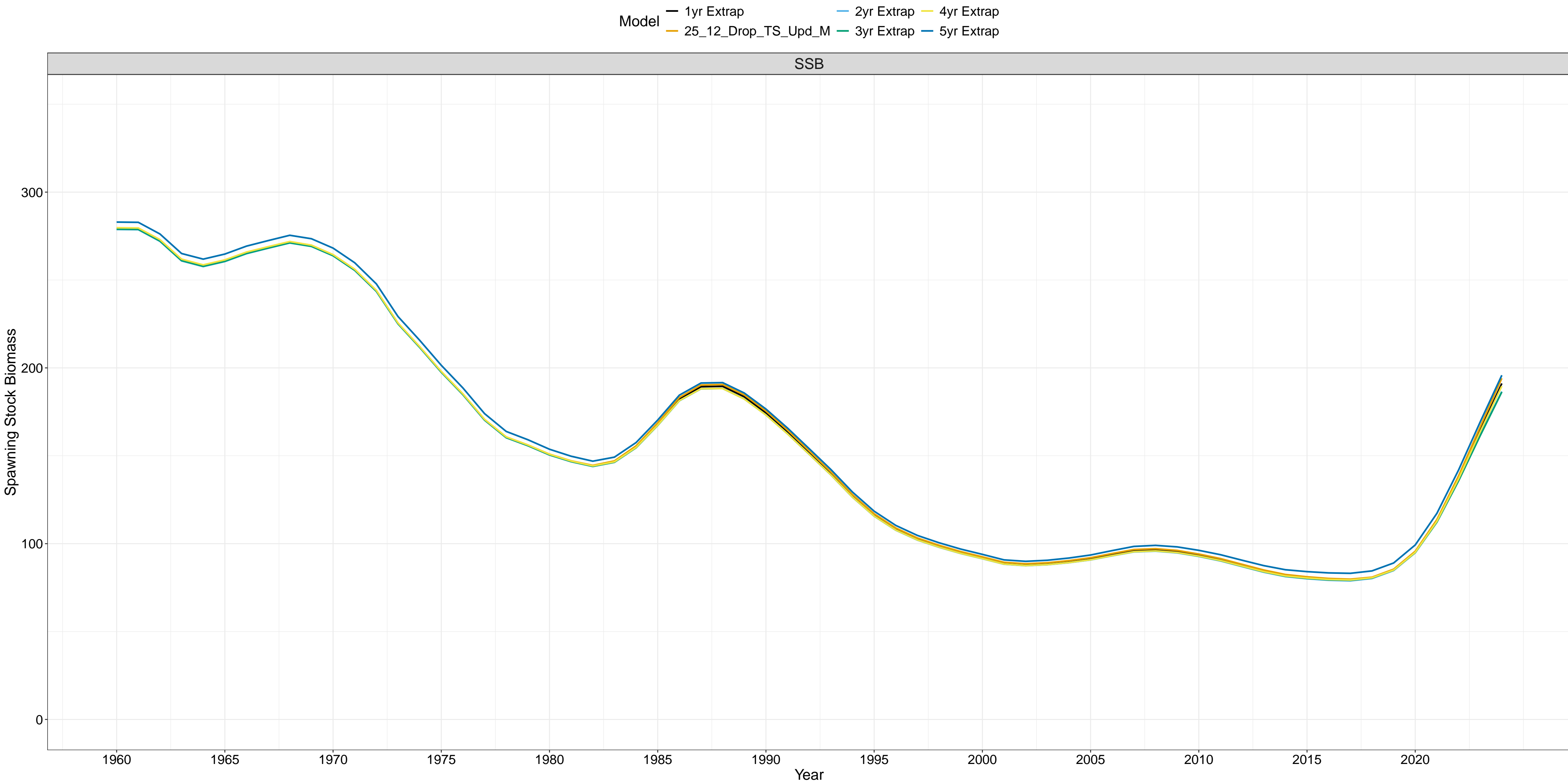
Model — 1yr Extrap — 2yr Extrap — 4yr Extrap
— 25_12_Drop_TS_Upd_M — 3yr Extrap — 5yr Extrap



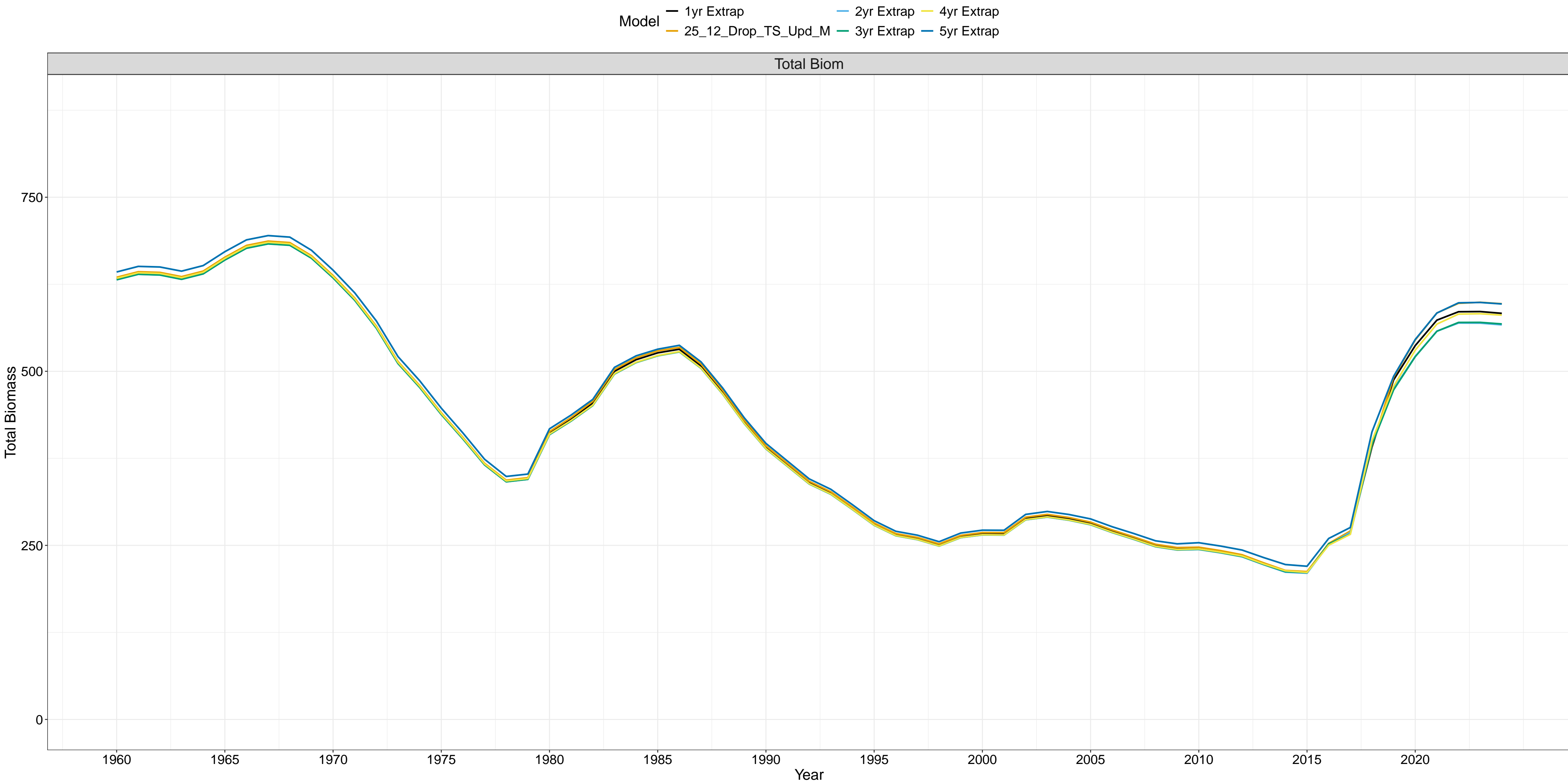
Recruitment



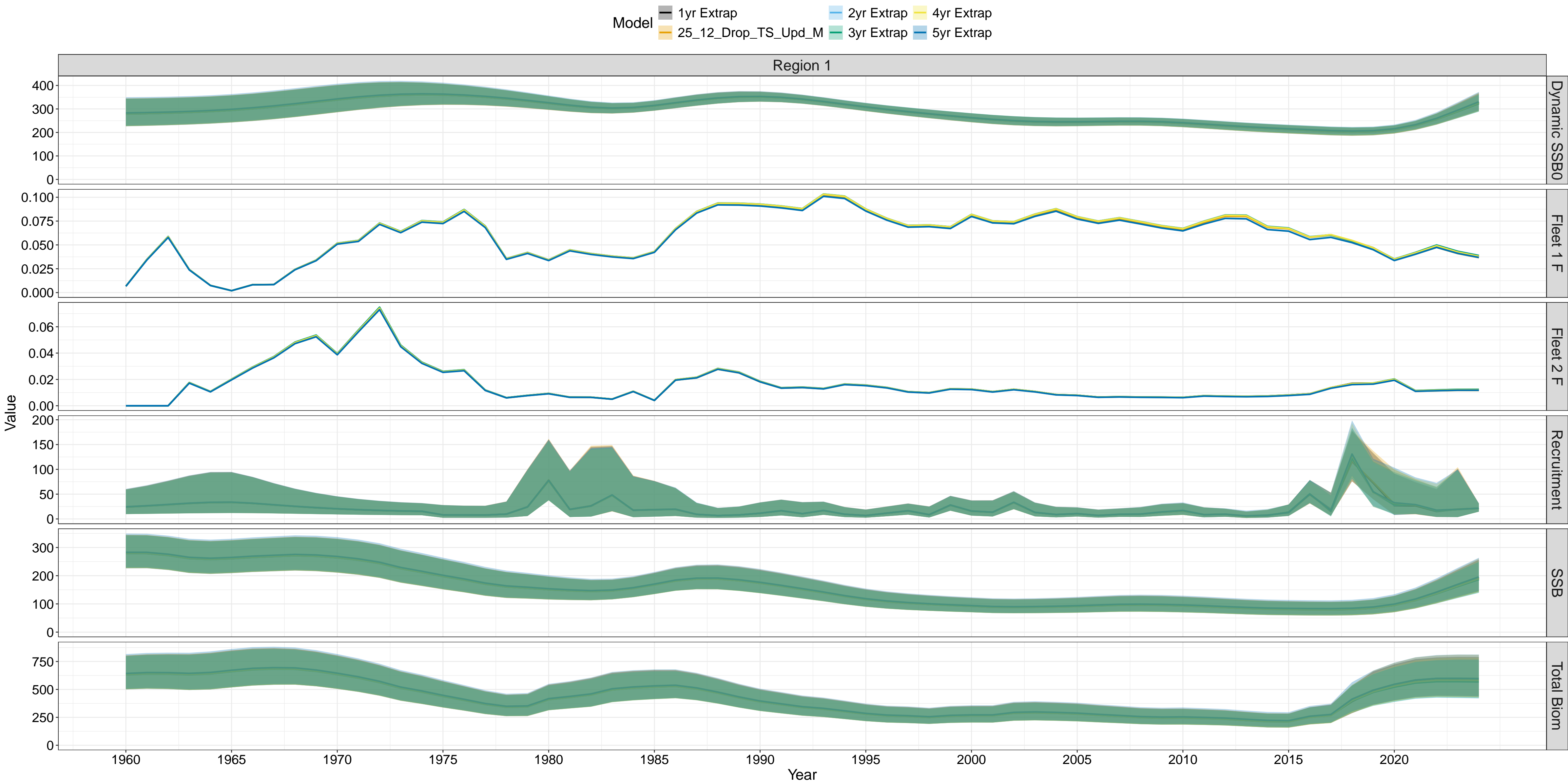
SSB



Biomass



Time Series Plots

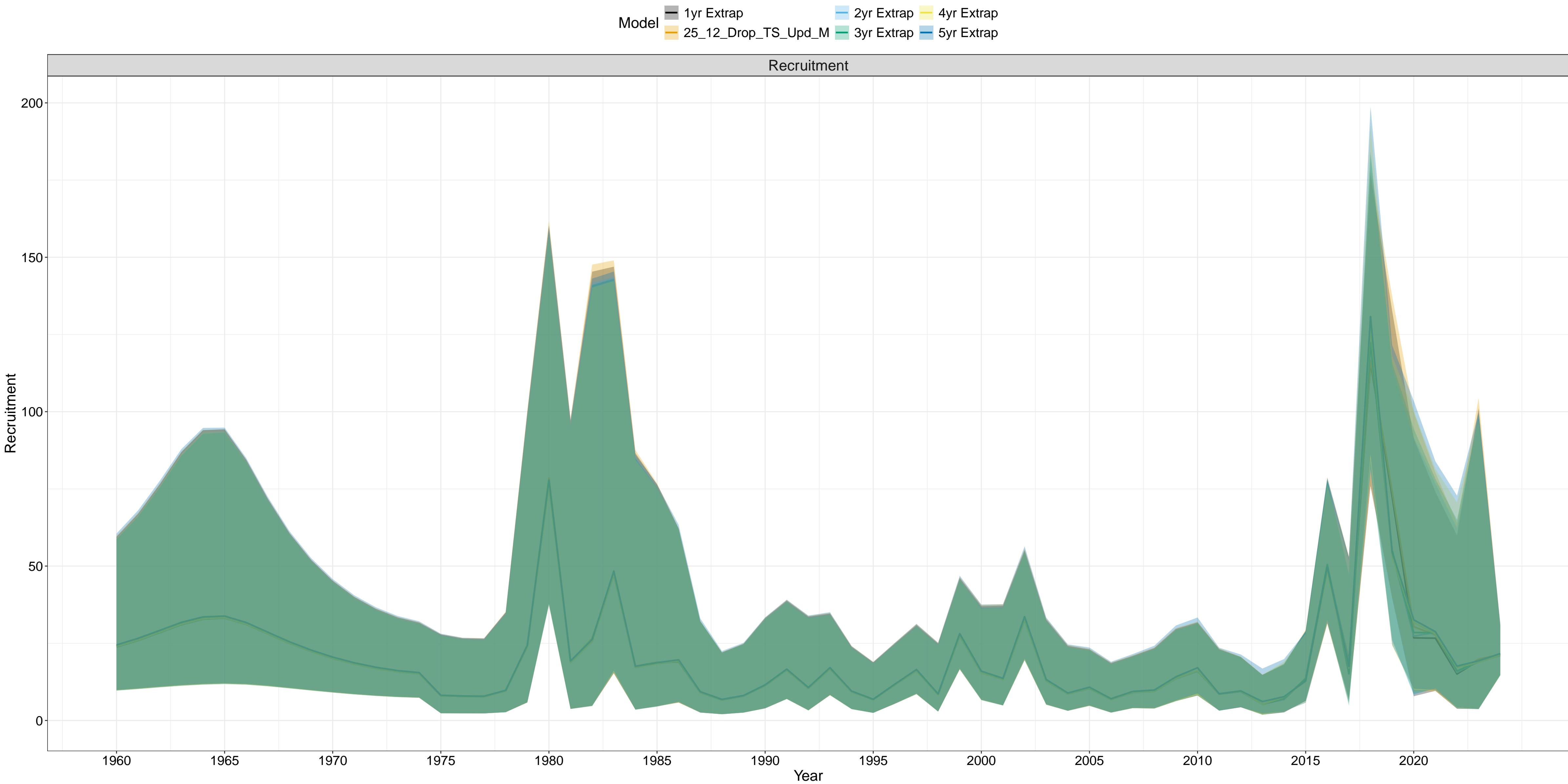


Fishing Mortality

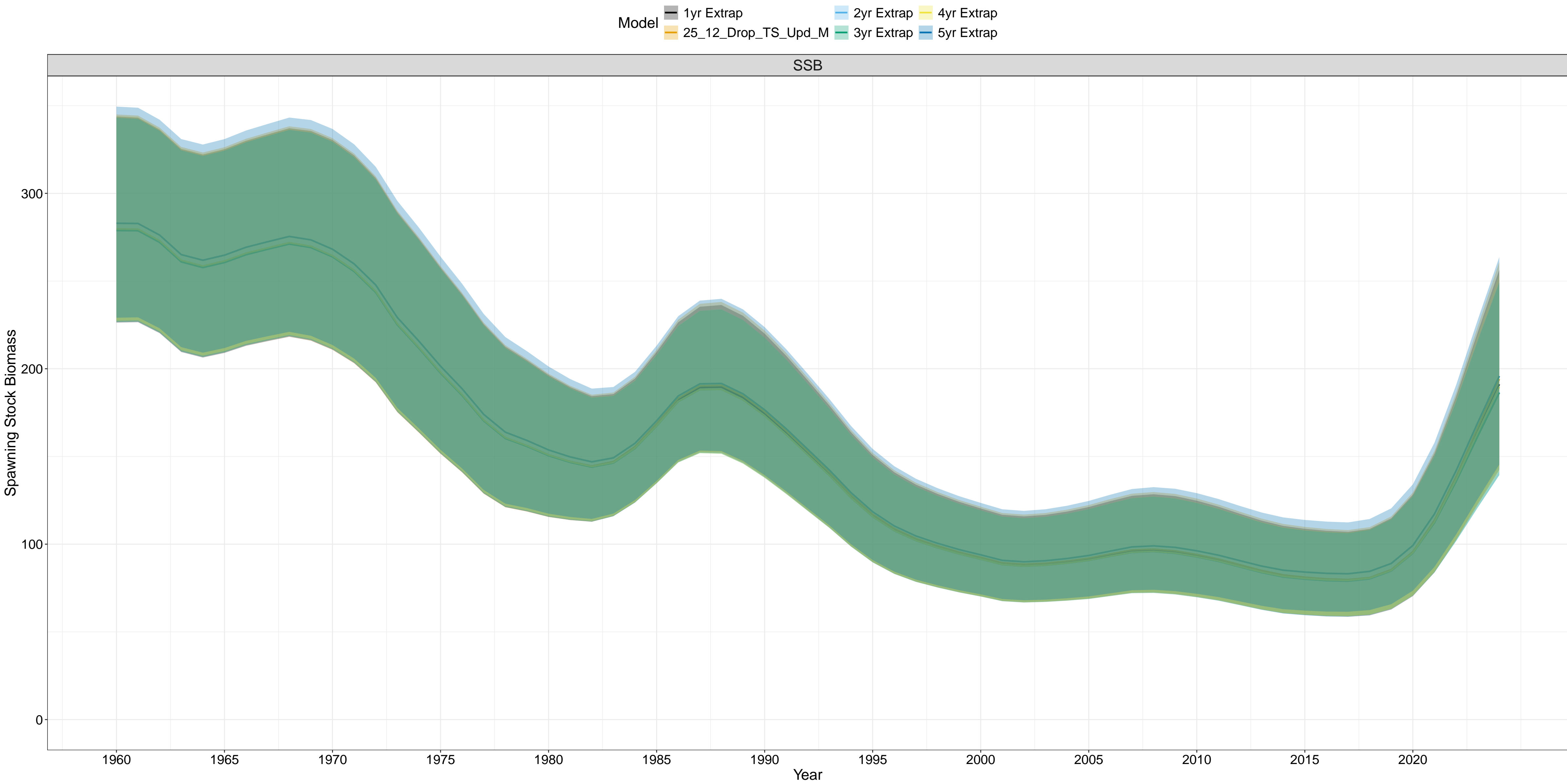
Model 1yr Extrap 2yr Extrap 4yr Extrap
 25_12_Drop_TS_Upd_M 3yr Extrap 5yr Extrap



Recruitment



SSB



Biomass

