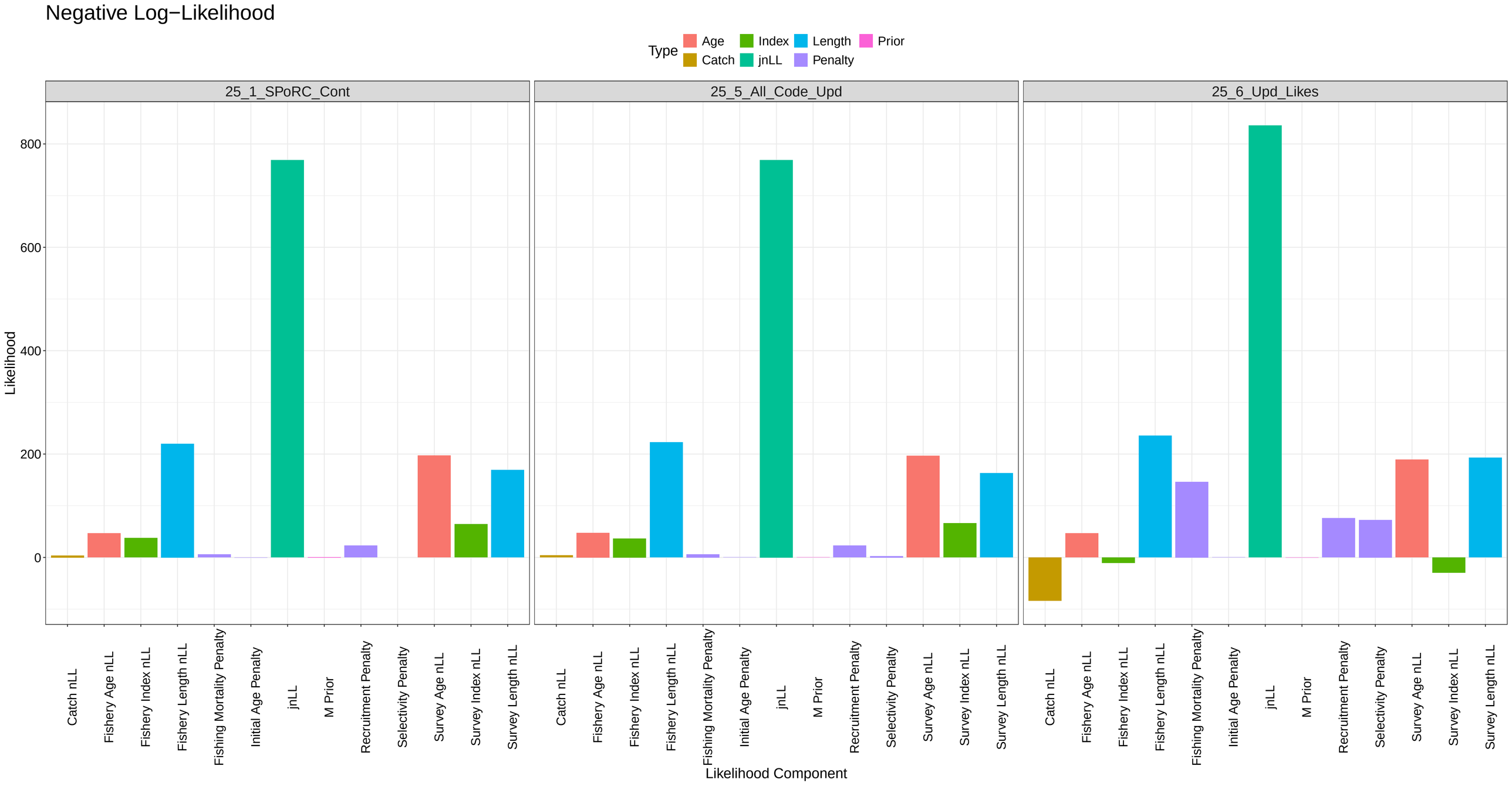
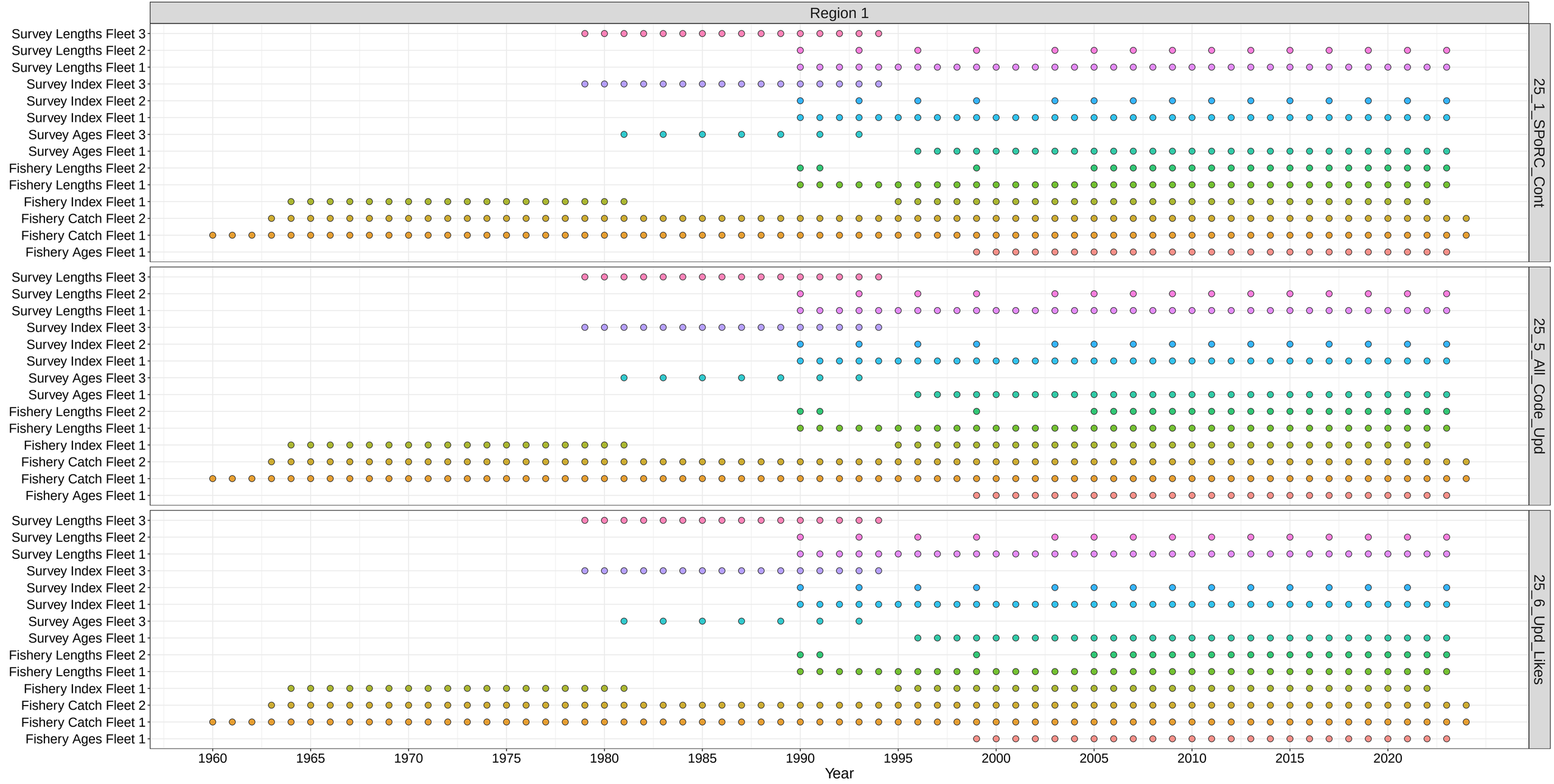
	Model	Region	Terminal_SSB	Terminal_F	Catch_Advice	B_Ref_Pt	F_Ref_Pt	B_over_B_Ref	F_over_F_Ref
1	25_1_SPoRC_Cont	1	189.0804	0.04037044	49.68588	121.0229	0.08593	1.56235	0.46979
2	25_5_All_Code_Upd	1	184.9366	0.04237330	46.46873	125.1706	0.08415	1.47748	0.50356
3	25_6_Upd_Likes	1	200.9191	0.03842778	52.95886	128.0622	0.08665	1.56892	0.44350

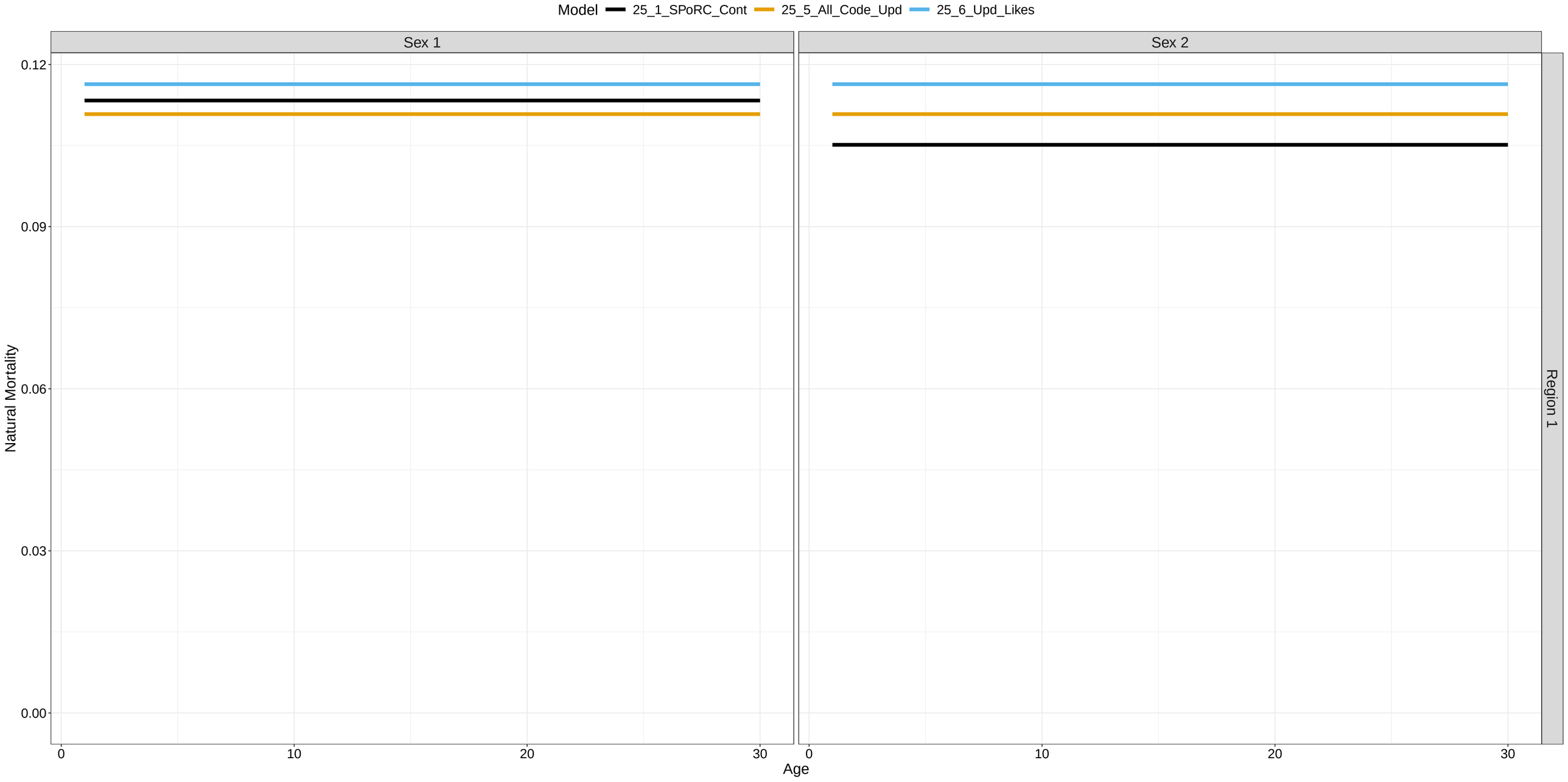
	Model	jnLL	M Prior	Recruitment Penalty	Catch nLL	Fishing Mortality Penalty	Survey Index nLL	Fishery Index nLL	Initial Age Penalty	Survey Age nLL	Fishery Age nLL	Survey Length nLL	Fishery Length nLL	Selectivity Penalty
1	25_1_SPoRC_Cont	768.8210	0.7838709	23.11463	3.688151	6.088752	64.49362	37.72432	0.1631310	197.0703	46.62799	169.0396	220.0267	NA
2	25_5_All_Code_Upd	768.9416	0.5279751	22.84171	3.908407	6.136092	66.35713	36.67317	0.2109372	196.4084	47.58893	162.9960	222.8158	2.476966
3	25_6_Upd_Likes	835.7924	−0.2354034	76.09974	−83.779841	146.315255	−29.36051	−10.47291	0.3208338	189.2229	46.83455	192.9026	235.4203	72.524762

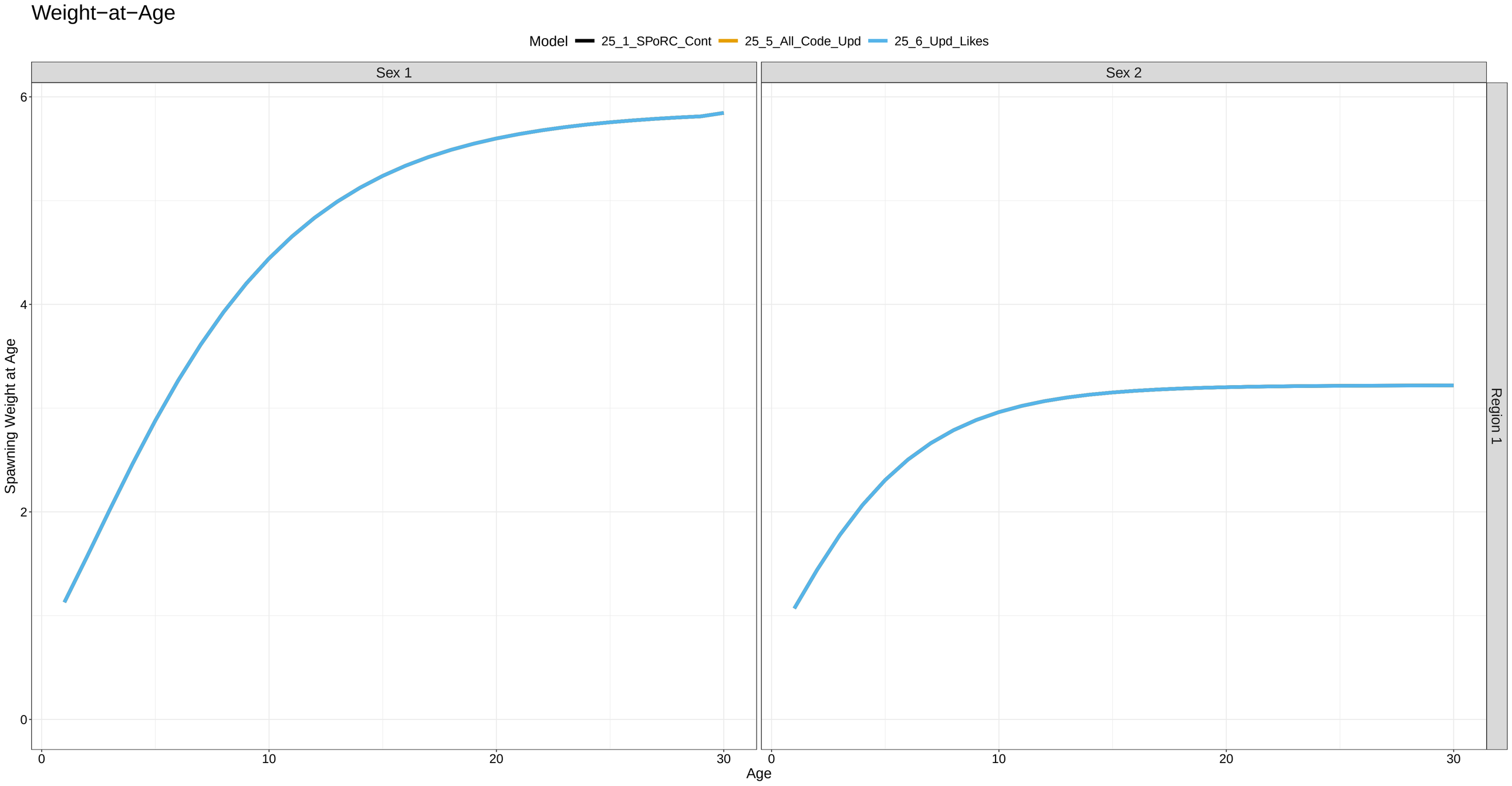

Negative Log−Likelihood
Type
Age
Index
Length
Prior
Catch
jnLL
Penalty
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Likelihood
800
600
400
200
0
Catch nLL
Fishery Age nLL
Fishery Index nLL
Fishery Length nLL
Fishing Mortality Penalty
Initial Age Penalty
jnLL
M Prior
Recruitment Penalty
Selectivity Penalty
Survey Age nLL
Survey Index nLL
Survey Length nLL
Likelihood Component

Data

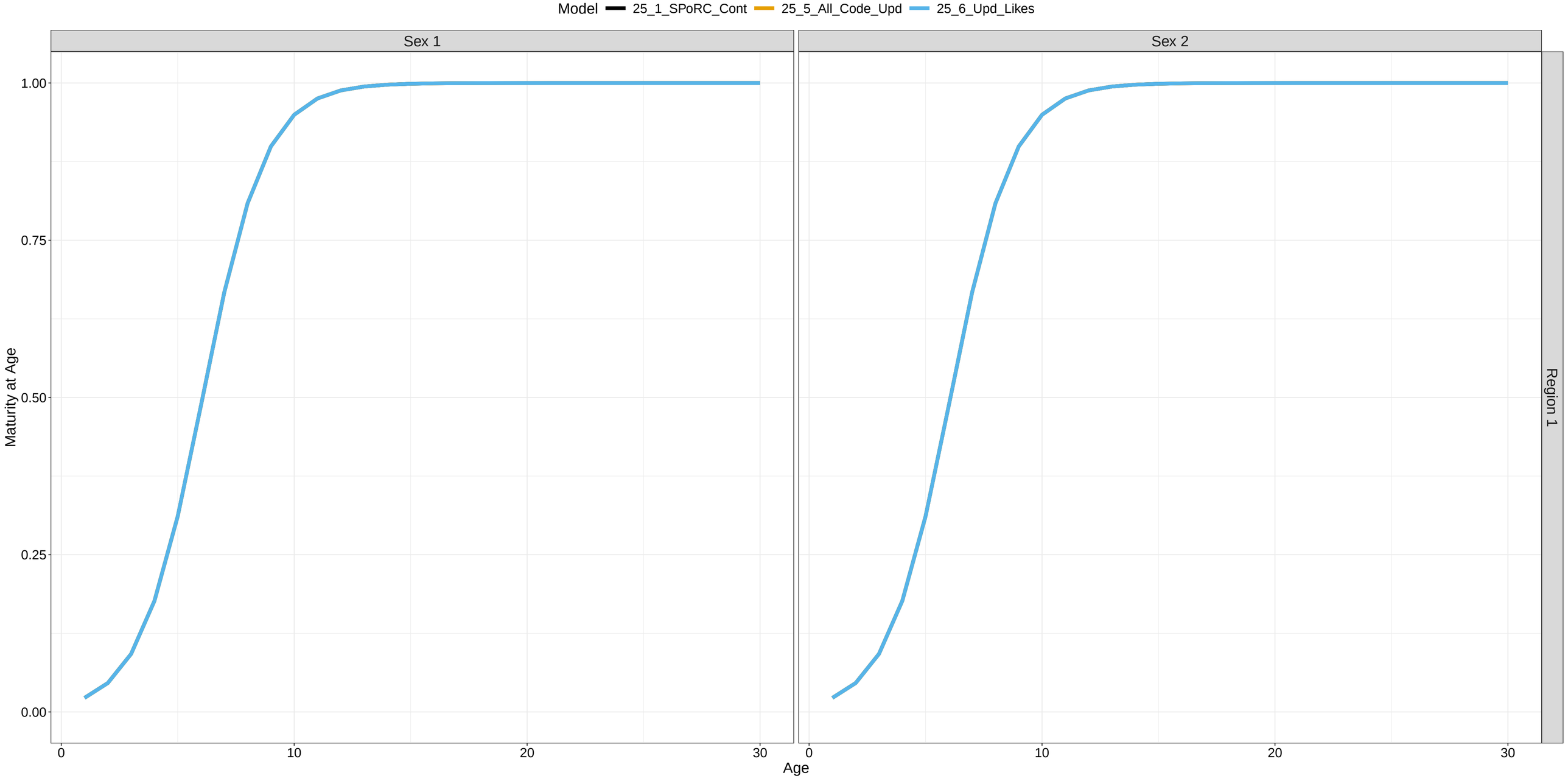

Region 1
Survey Lengths Fleet 3
Survey Lengths Fleet 2
Survey Lengths Fleet 1
Survey Index Fleet 3
Survey Index Fleet 2
Survey Index Fleet 1
Survey Ages Fleet 3
Survey Ages Fleet 1
Fishery Lengths Fleet 2
Fishery Lengths Fleet 1
Fishery Index Fleet 1
Fishery Catch Fleet 2
Fishery Catch Fleet 1
Fishery Ages Fleet 1
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year

Natural Mortality

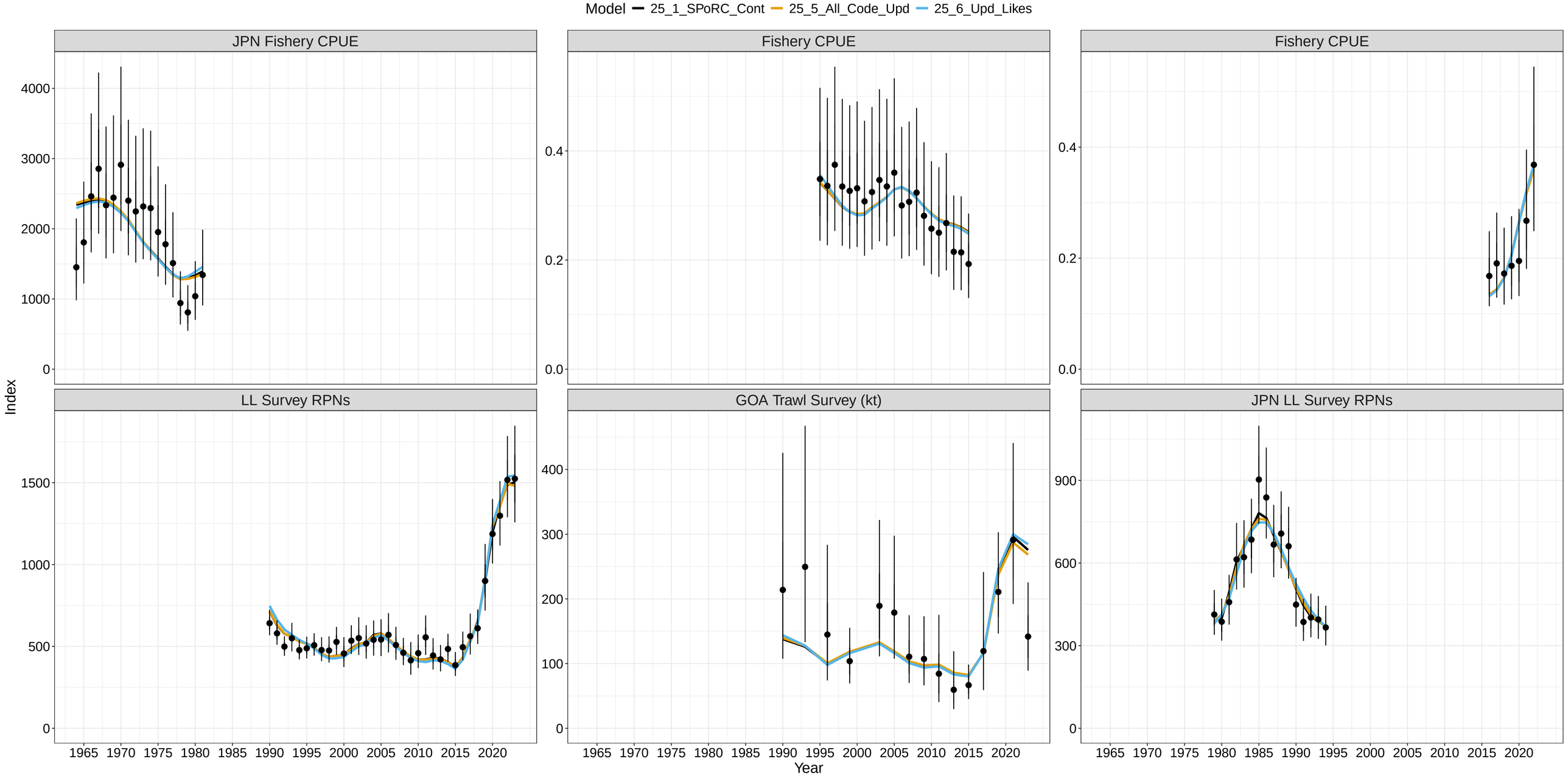



Weight−at−Age
Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Sex 1
Sex 2
Region 1
Spawning Weight at Age
Age
0
2
4
6
0
10
20
30

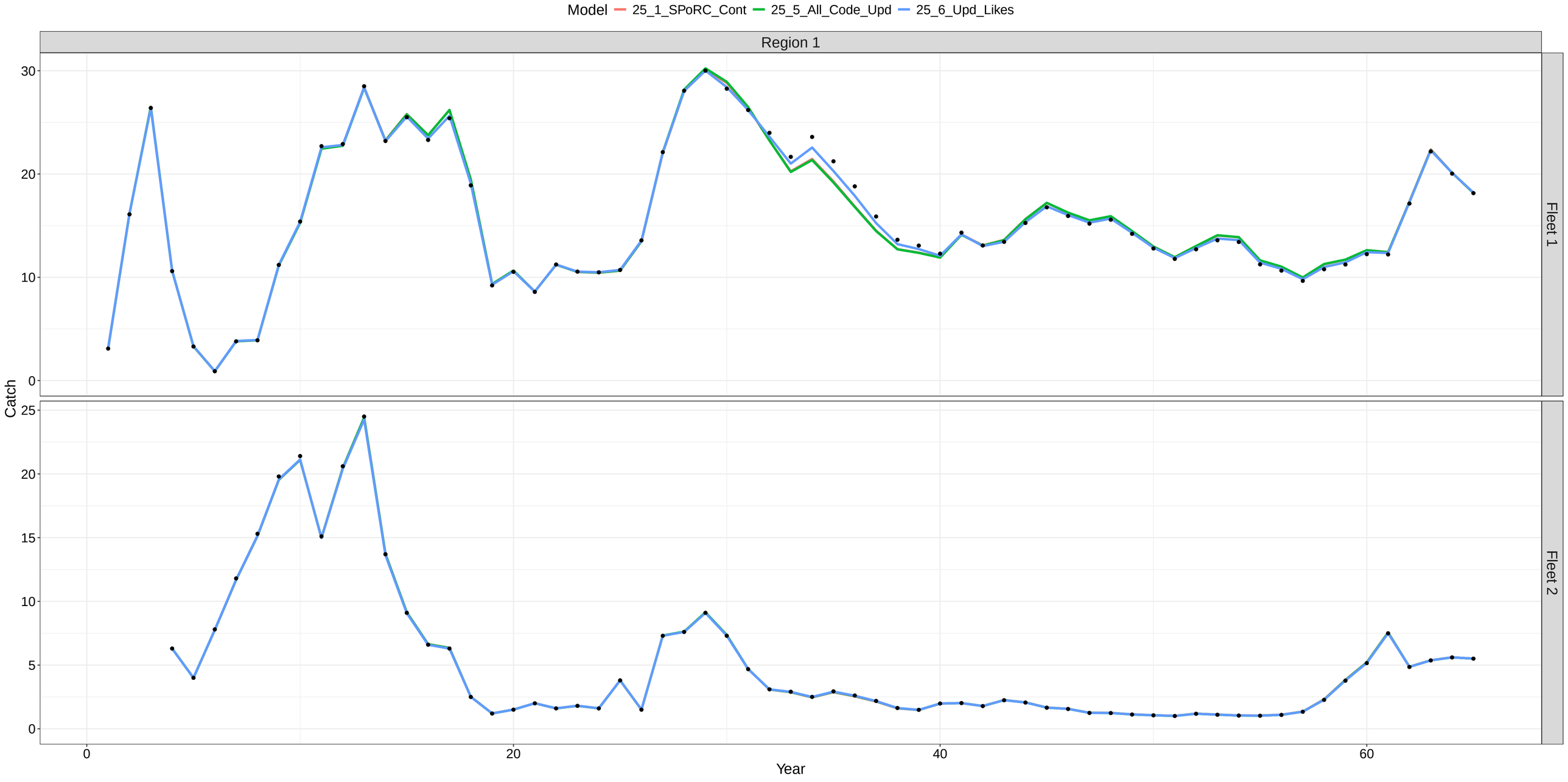
Maturity


Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Sex 1
Sex 2
Region 1
Maturity at Age
1.00
0.75
0.50
0.25
0.00
0
10
20
30
Age

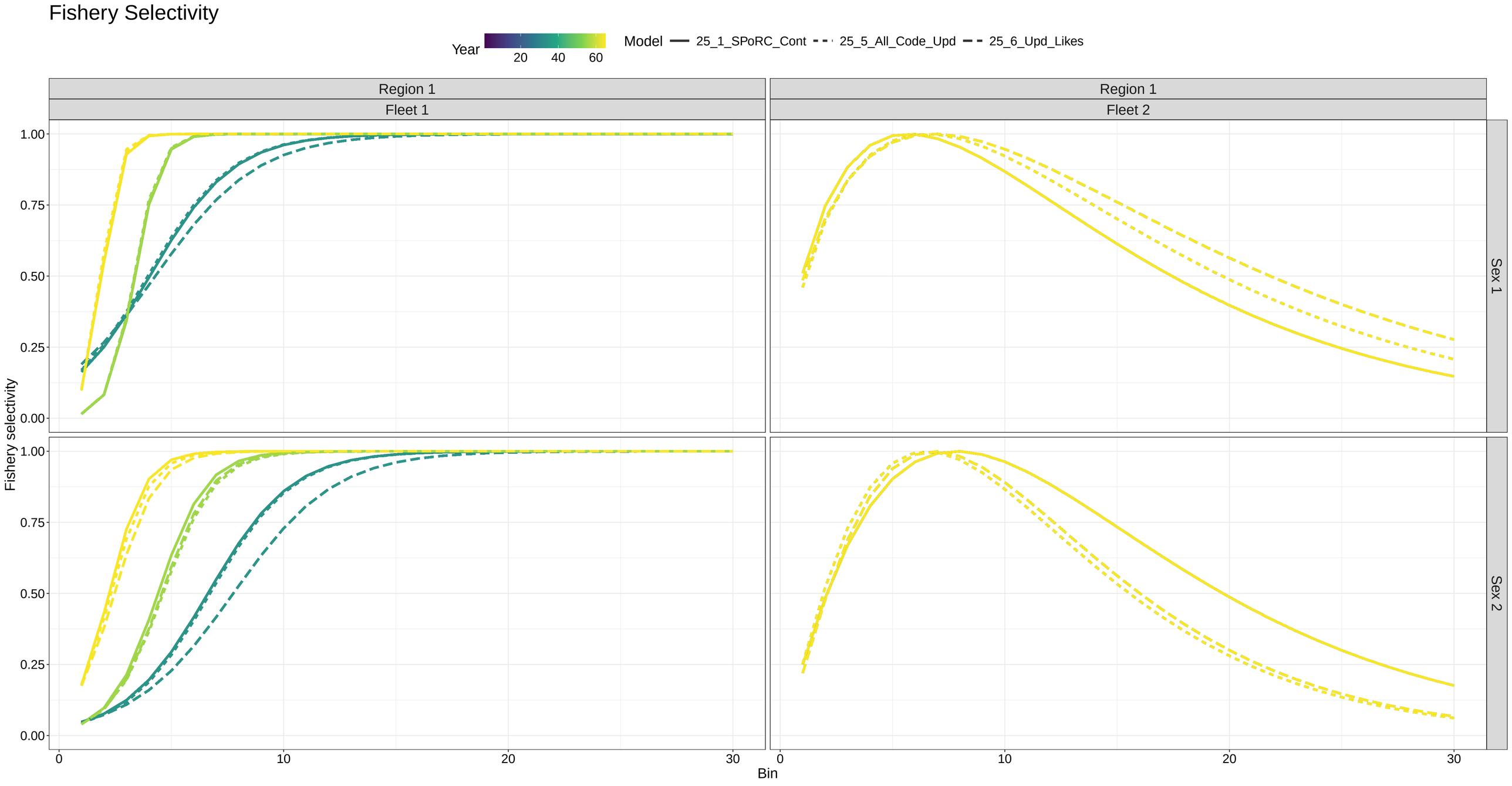
Index Fits


Model 25_1_SPoRC_Cont 25_5_All_Code_Upd 25_6_Upd_Likes
JPN Fishery CPUE
Fishery CPUE
Fishery CPUE
LL Survey RPNs
GOA Trawl Survey (kt)
JPN LL Survey RPNs
Index
Year

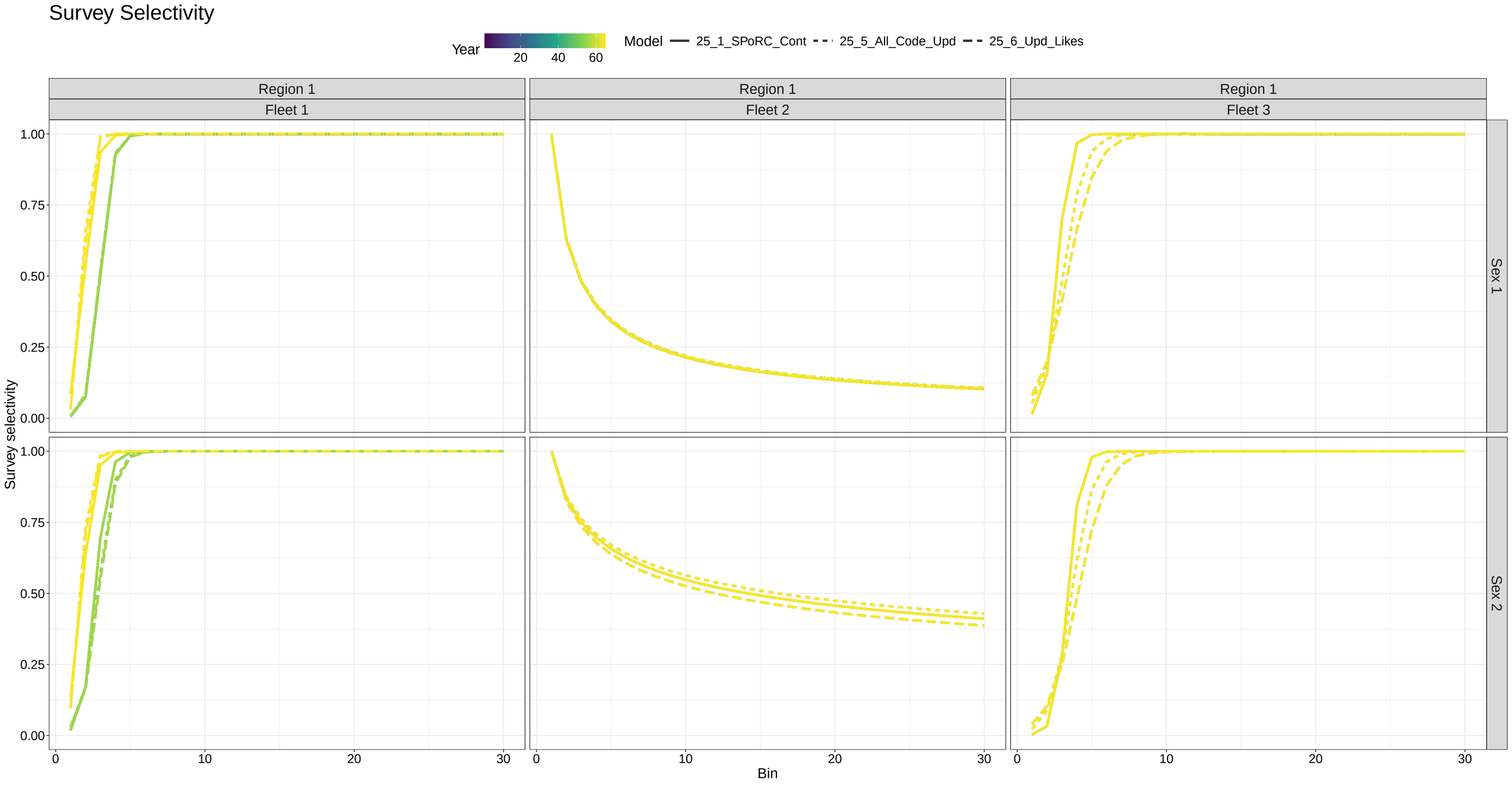
Catch


Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Region 1
Fleet 1
Fleet 2
Catch
Year
0
10
20
30
0
5
10
15
20
25
0
20
40
60

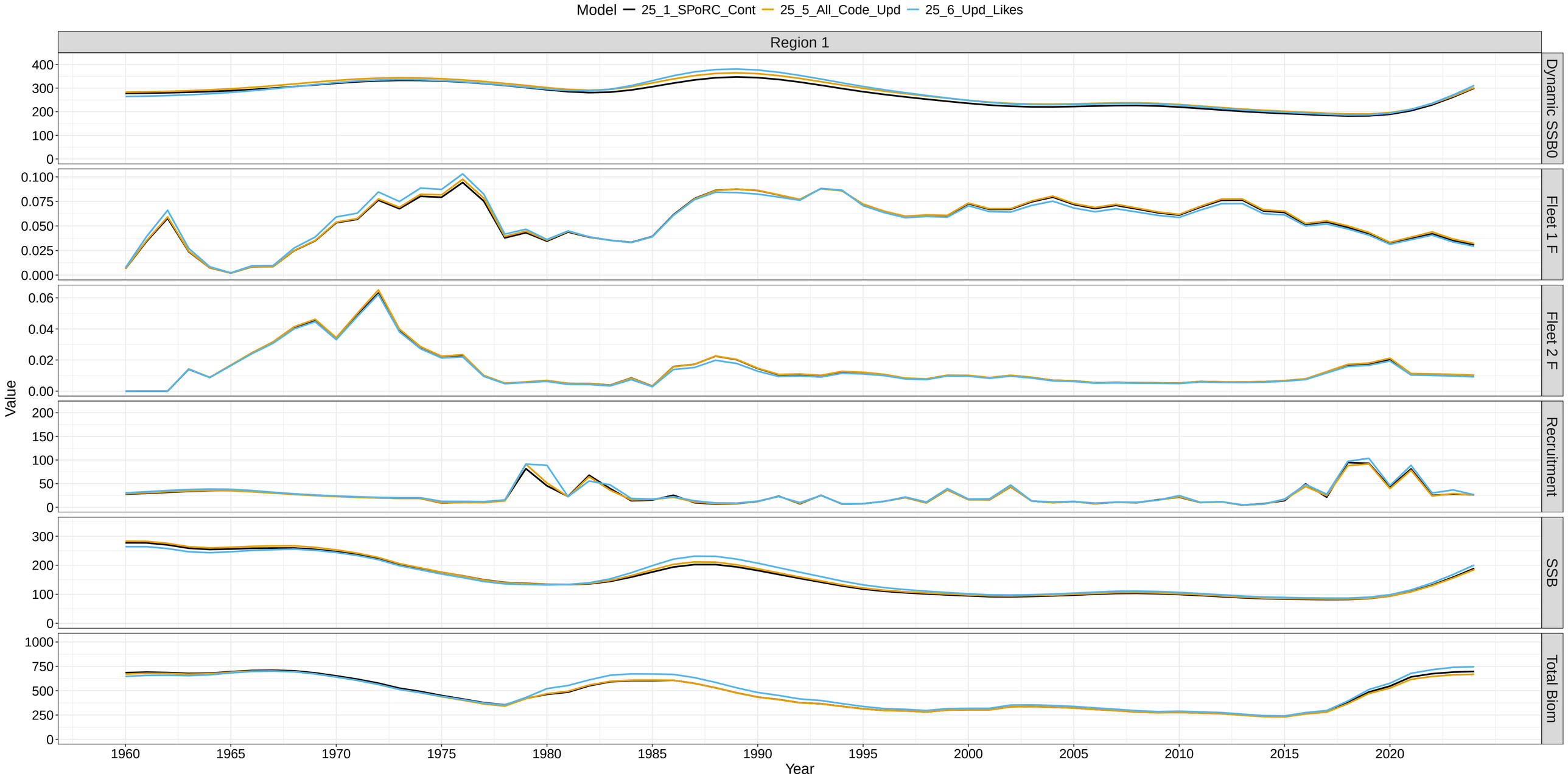
Fishery Selectivity



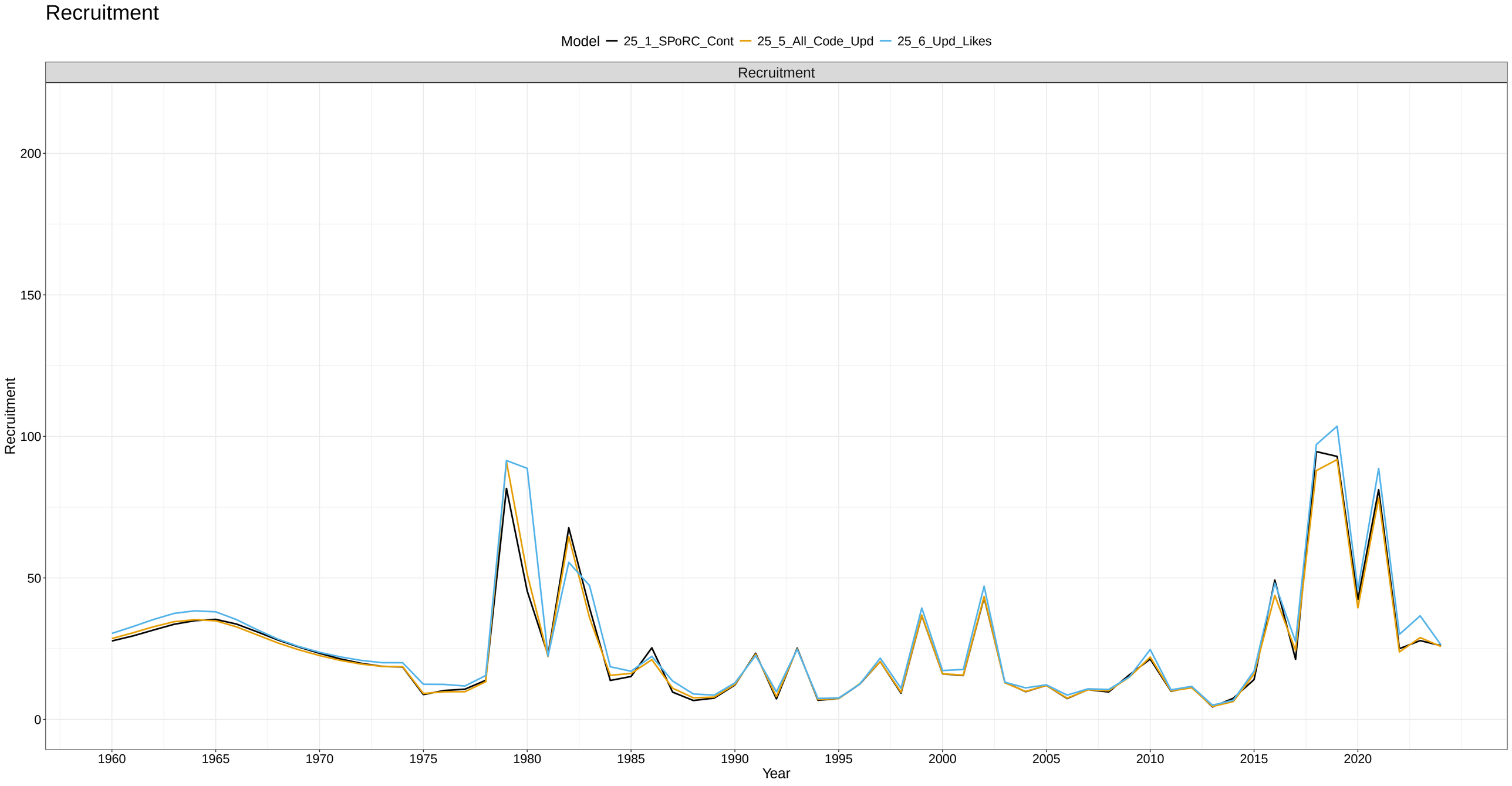
Survey Selectivity

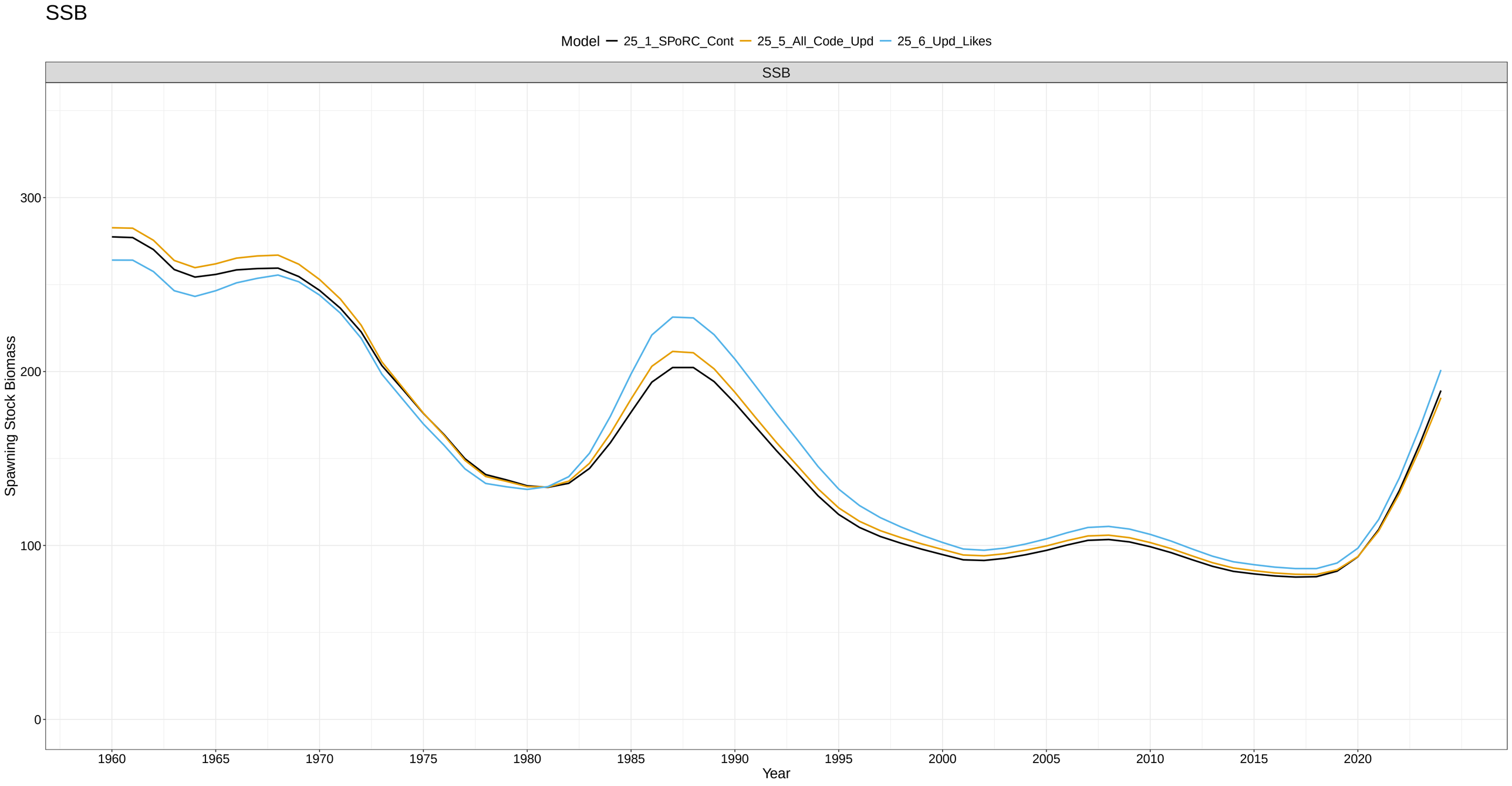


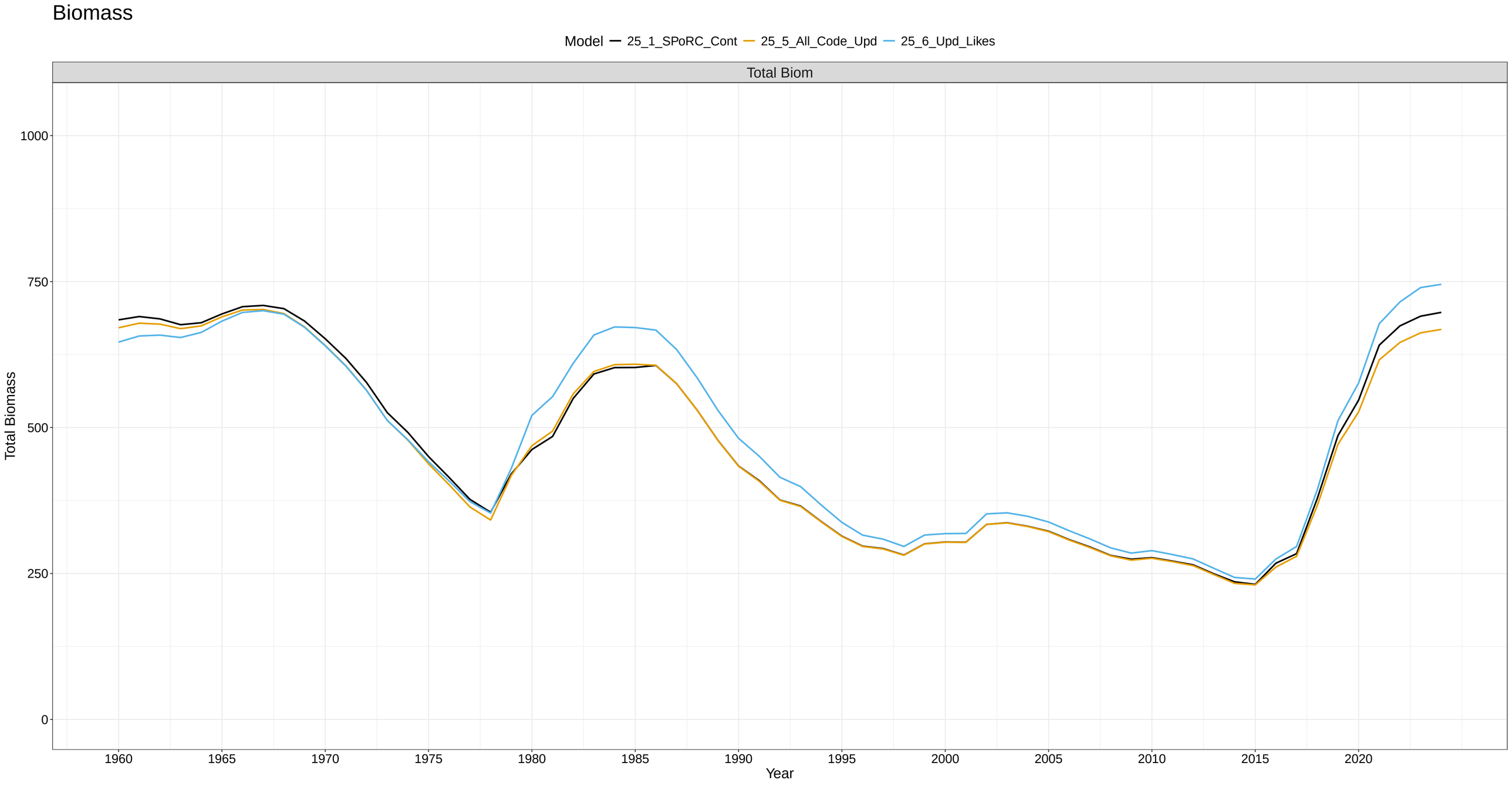
Time Series Plots



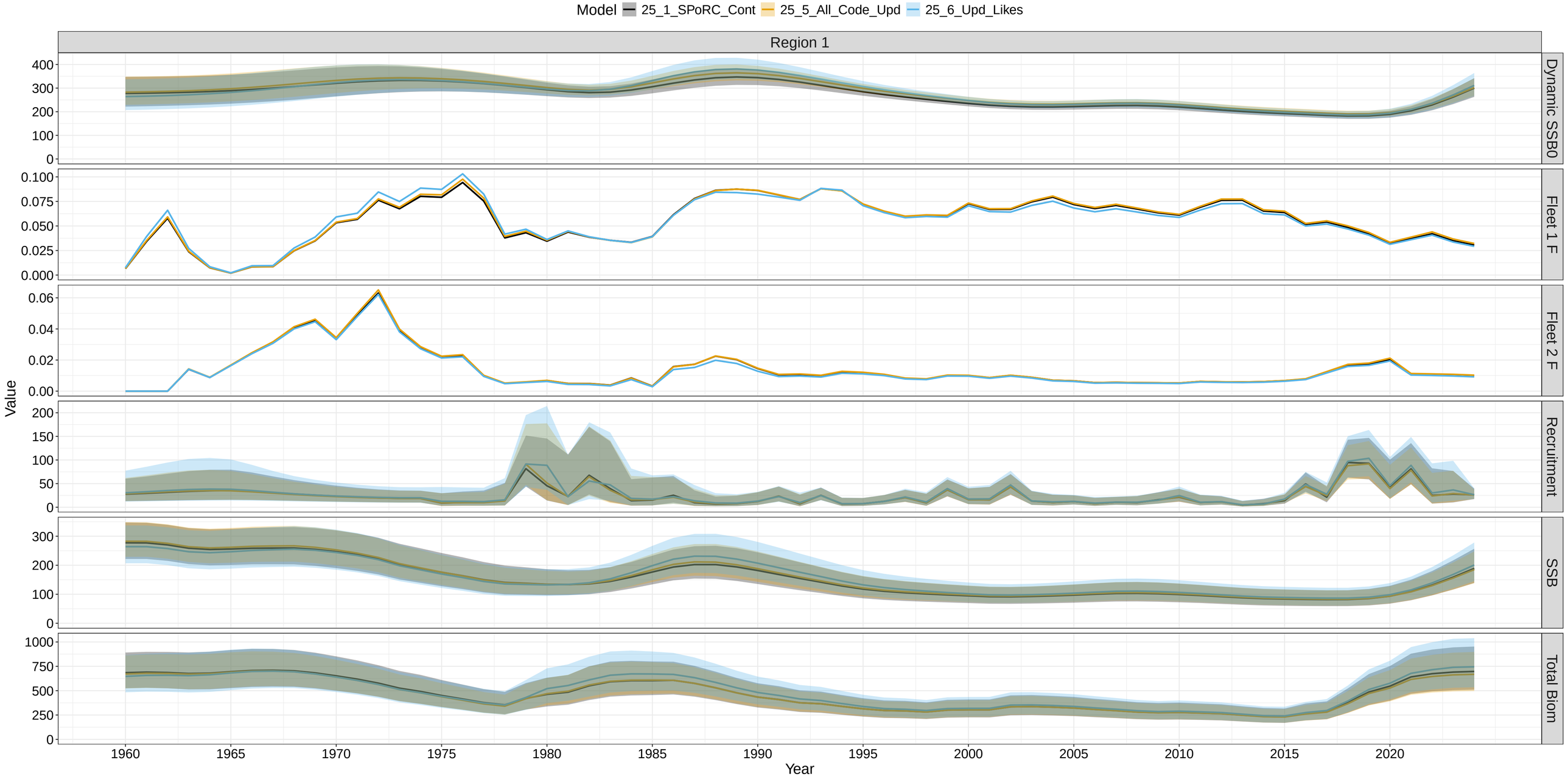
Fishing Mortality


Recruitment
Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Recruitment
Recruitment
Year
0
50
100
150
200
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020

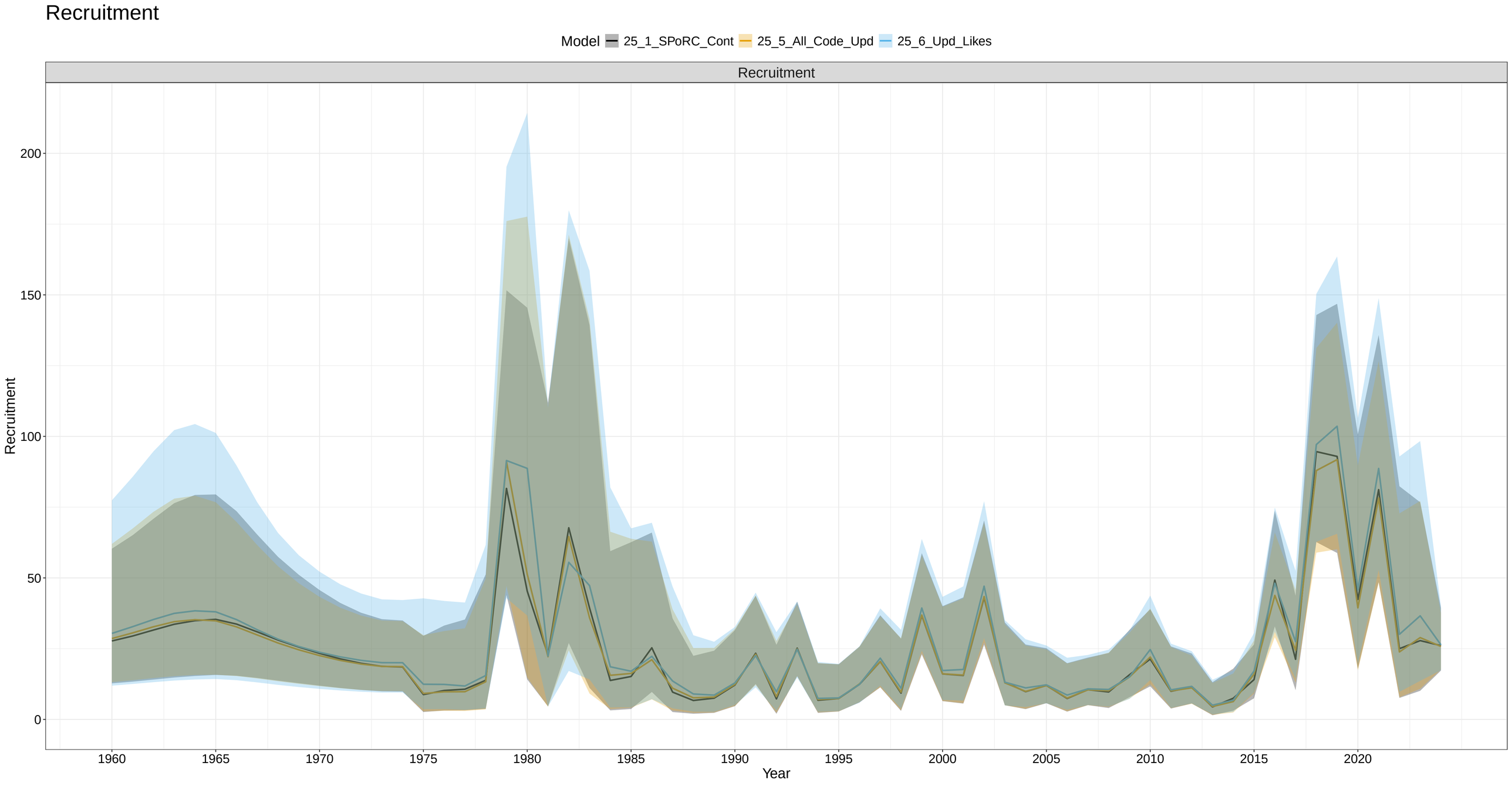

SSB
Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
SSB
Spawning Stock Biomass
0
100
200
300
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year

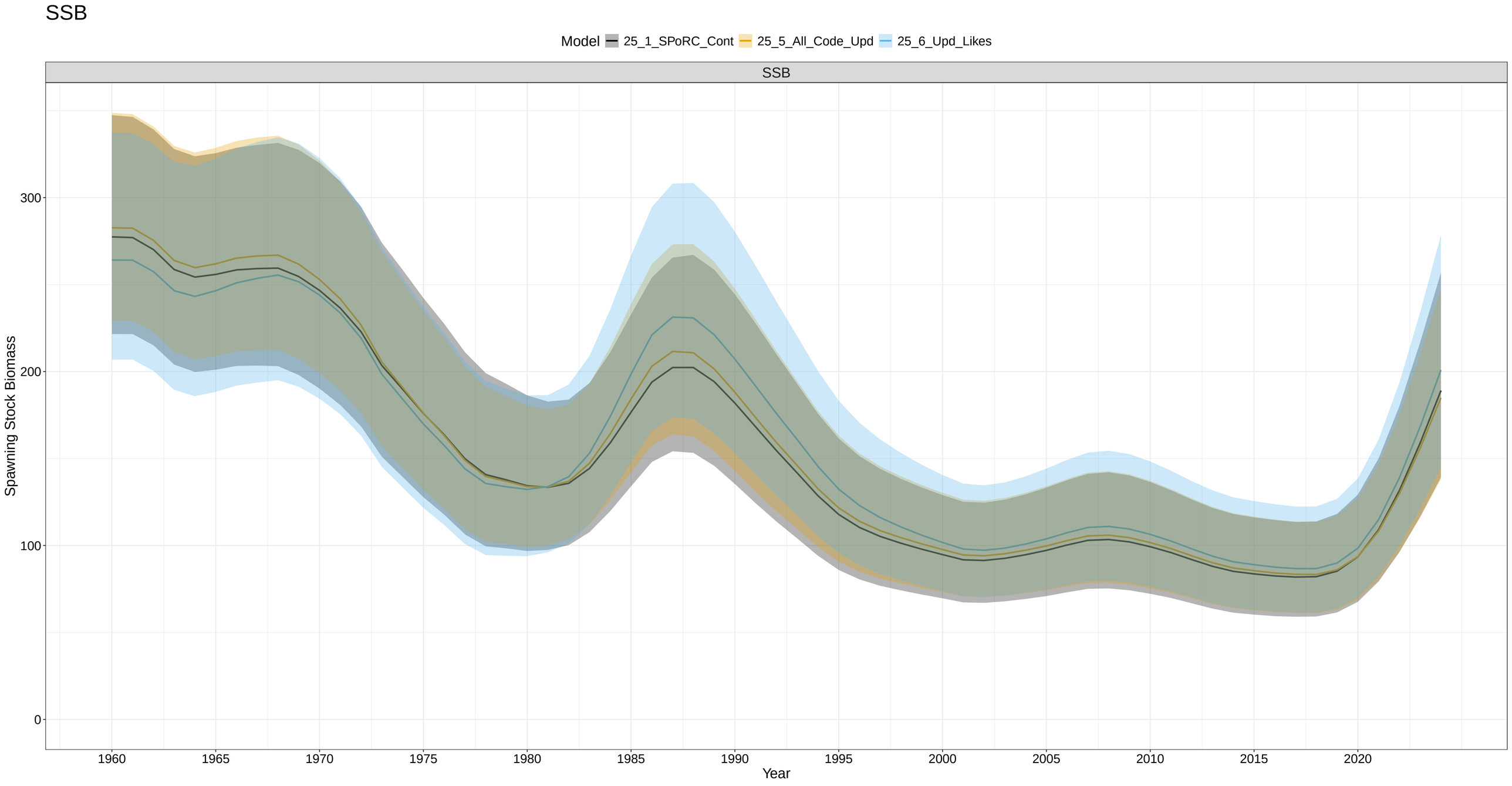

Biomass
Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Total Biom
Total Biomass
1000
750
500
250
0
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year

Time Series Plots

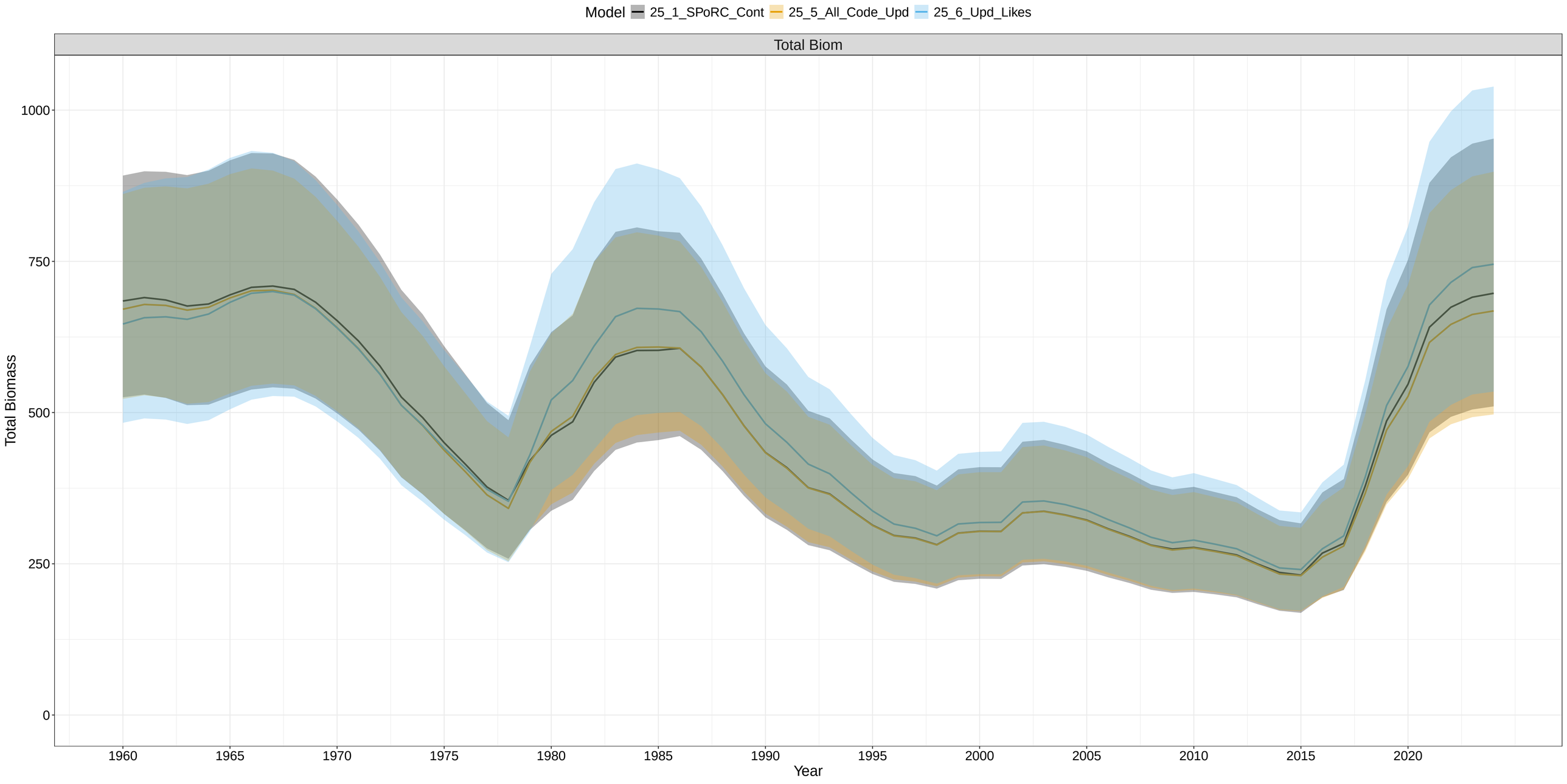


Fishing Mortality


Recruitment
Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Recruitment
Recruitment
200
150
100
50
0
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year


SSB
Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
SSB
Spawning Stock Biomass
0
100
200
300
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year

Biomass


Model
25_1_SPoRC_Cont
25_5_All_Code_Upd
25_6_Upd_Likes
Total Biom
Total Biomass
1000
750
500
250
0
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year