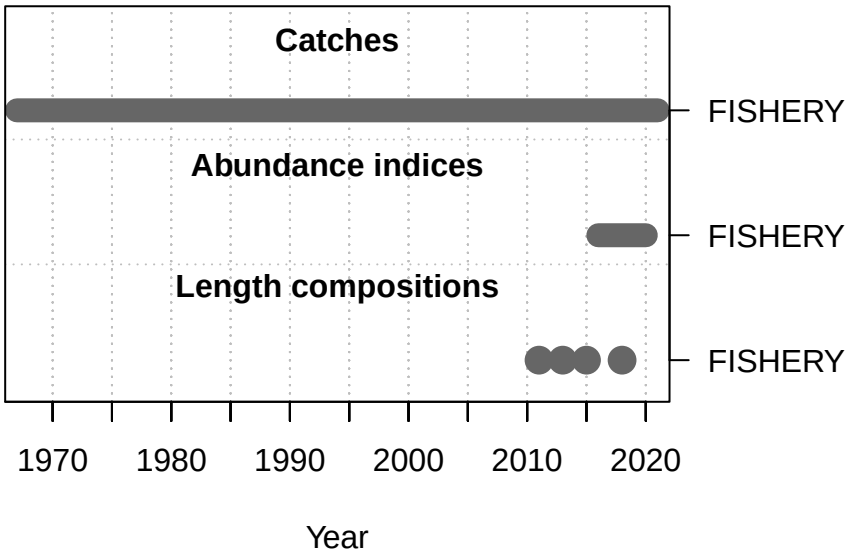
American Samoa Model Checks

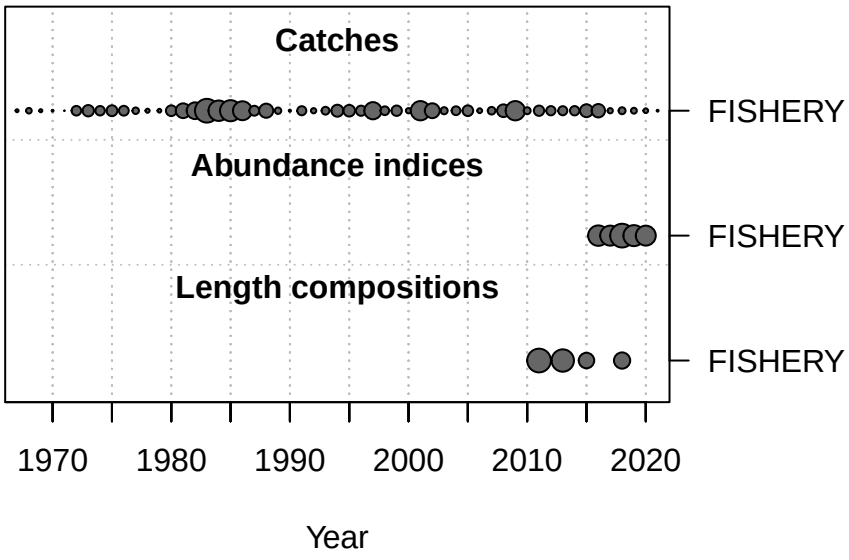
2022-12-08

This is a summary report for the PRFL base model run.

Model Output

Input Data





Convergence Check

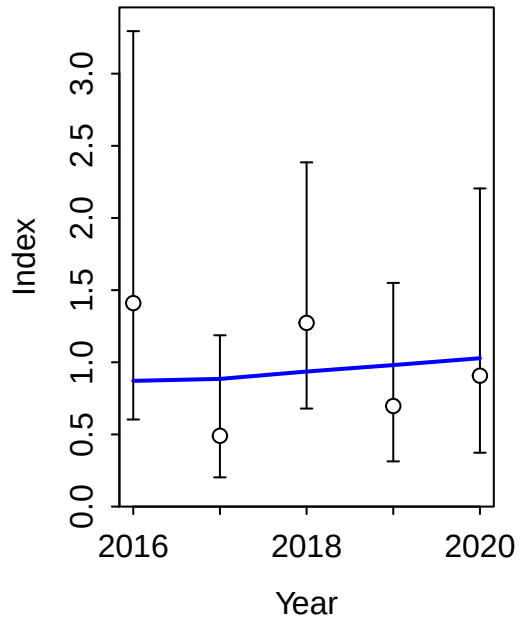
```
  Converged     MaxGrad
1      TRUE 5.76434e-05
```

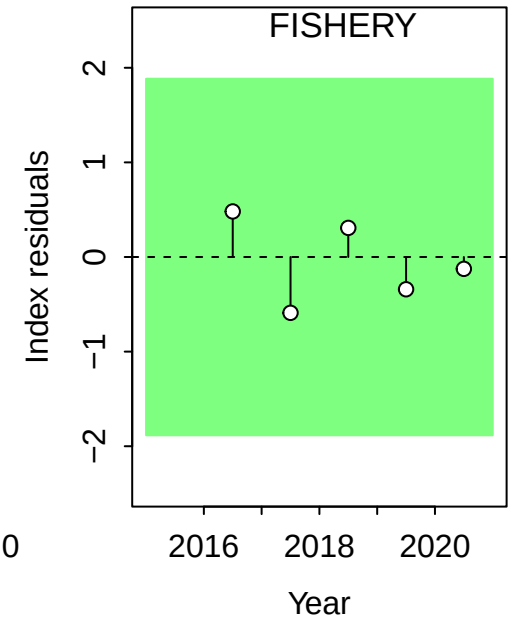
```
[1] "1 NOTE:  Max data length bin: 48  < max pop len bins: 53; so will accumulate larger pop
[2] "N warnings: 1"
```

Fit to Model

CPUE

Fleet	RMSE.perc	Nobs
FISHERY	40.2	5
Combined	40.2	5

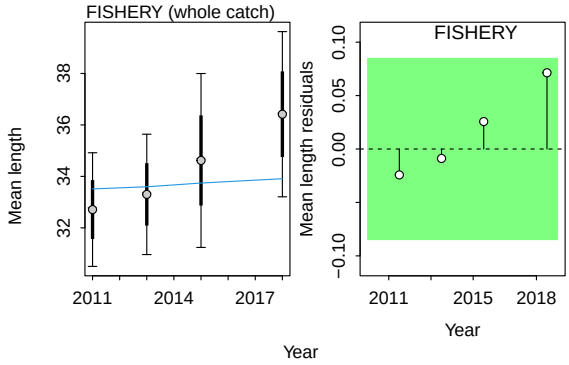


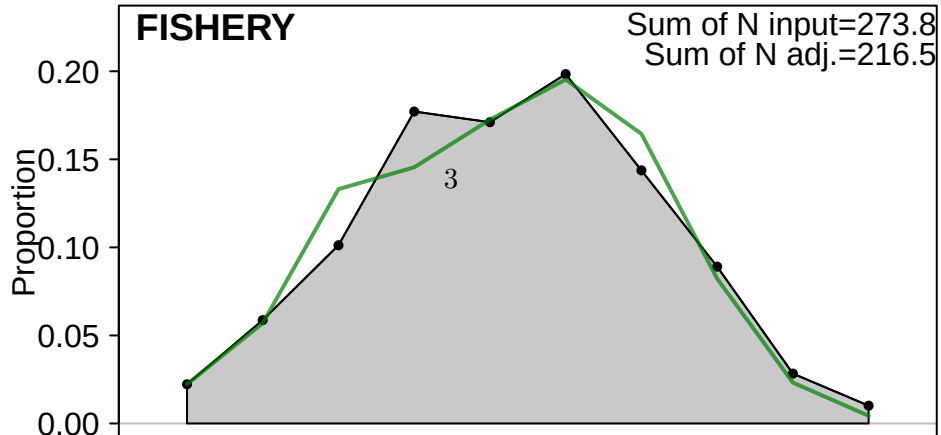


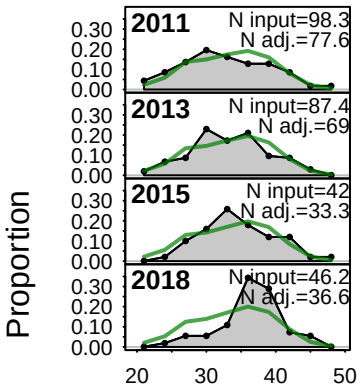
Length Comp

Fleet	RMSE.perc	Nobs
FISHERY	4	4
Combined	4	4

```
         w         lo         hi              Index runs.p   test   sigma3.lo  sigma3.hi type
0.2689283 0.1865436 4.7895609          1 FISHERY   0.11 Passed -0.08474725 0.08474725  len
```







Retrospective

```
[1] "No retrospective runs were found"
```

Hindcasting

```
[1] "No information for hindcast was found"
```

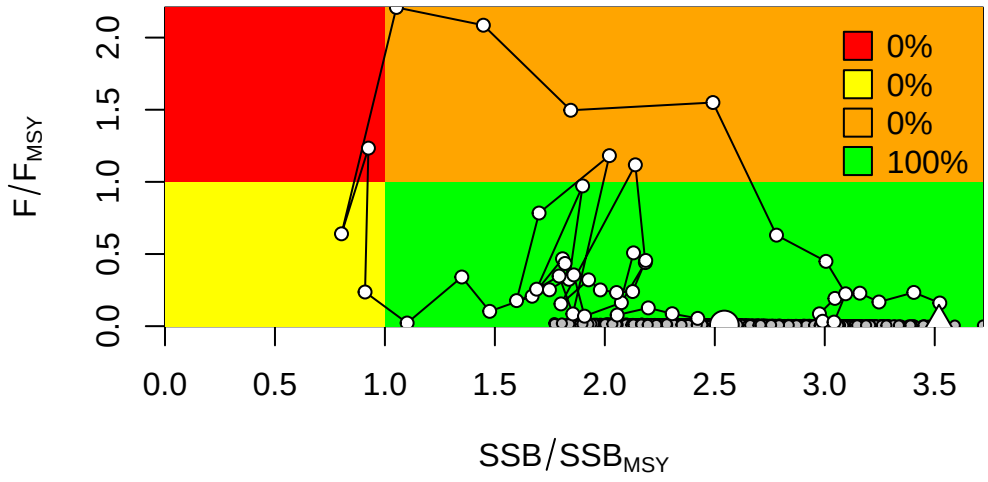
Recruitment Deviations

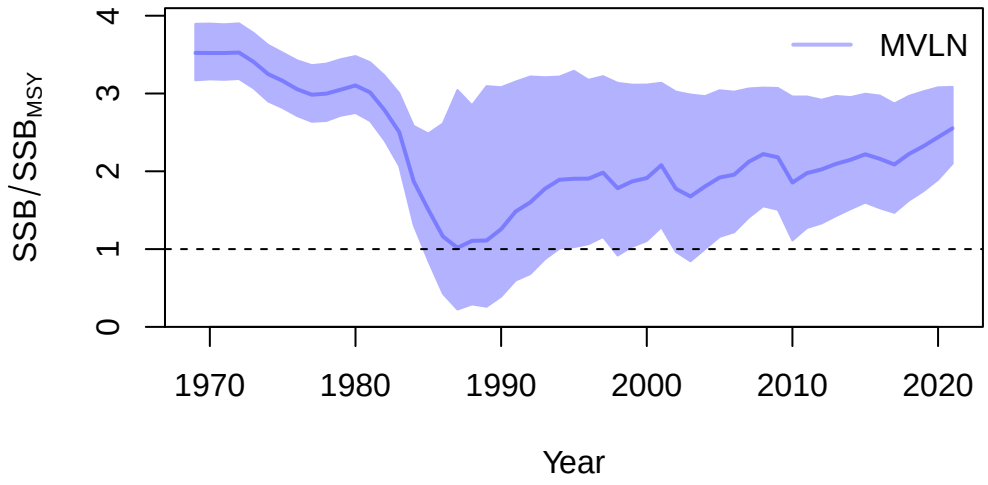
Likelihood Profile

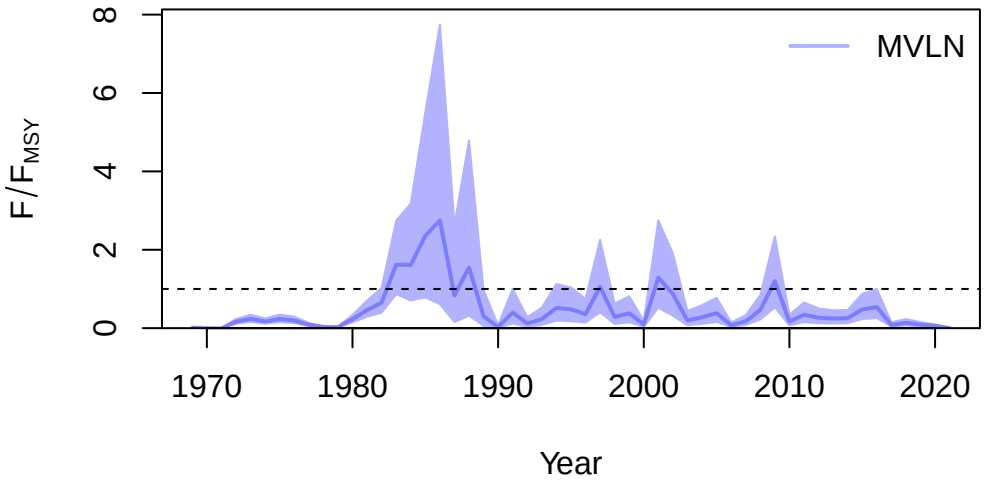
```
[1] "No likelihood runs were found"
```

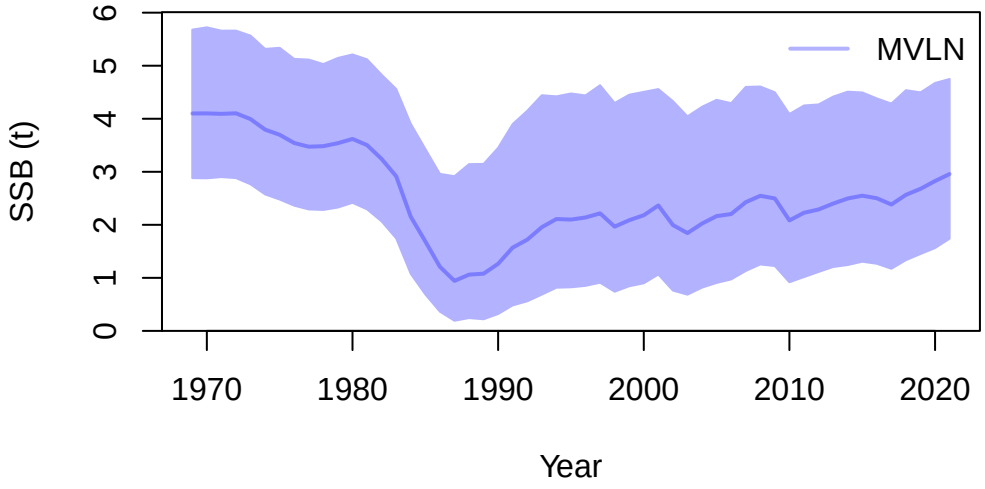
Management Quantities

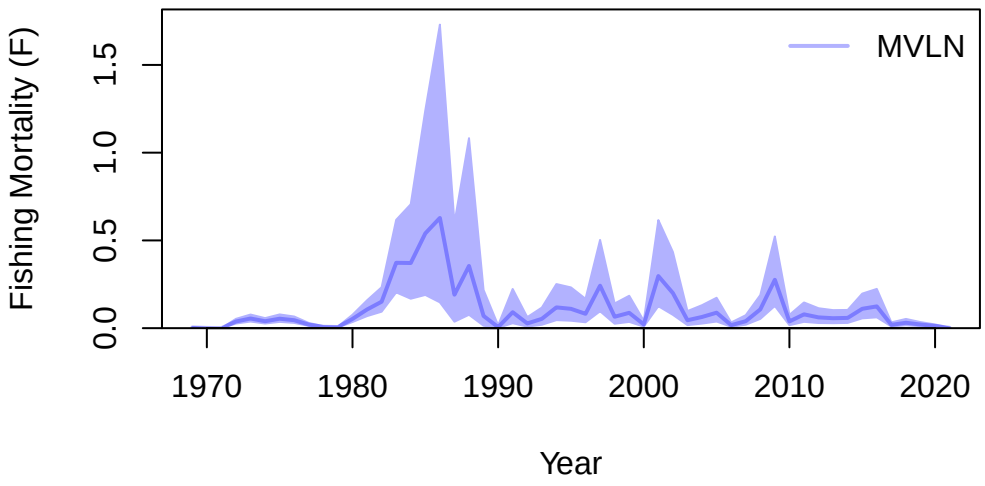
```
 starter.sso with Bratio: SSB/SSBMSY and F: _abs_F
```


0%
0%
0%
100%
F/F_MSY
SSB/SSB_MSY
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5


MVLN
SSB/SSB_MSY
Year
0
1
2
3
4
1970
1980
1990
2000
2010
2020

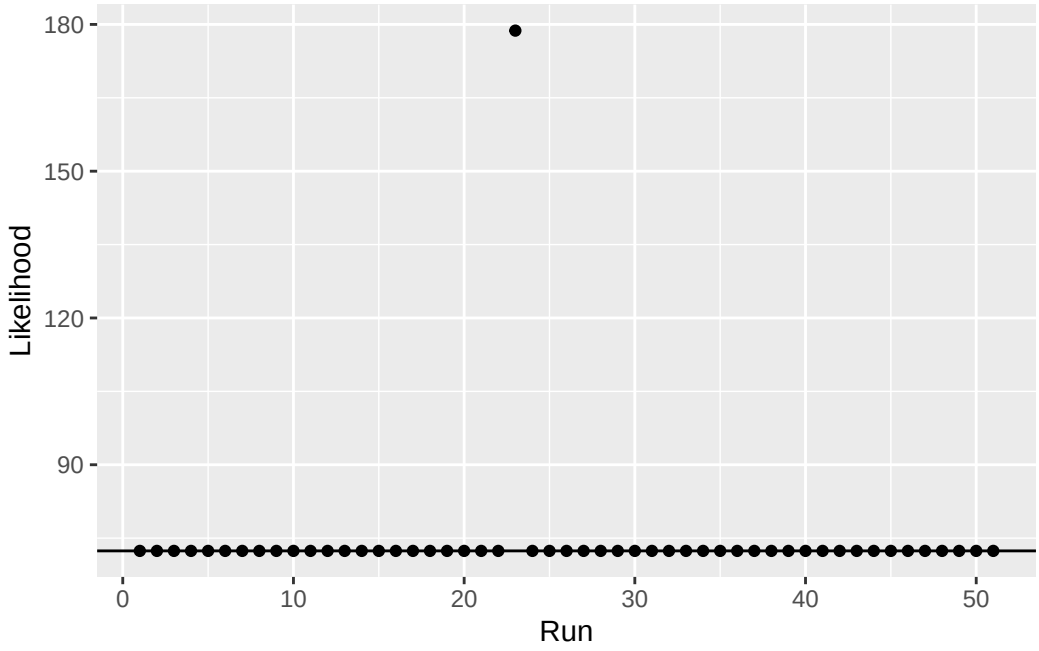

MVLN
F/F_MSY
0
2
4
6
8
1970
1980
1990
2000
2010
2020
Year

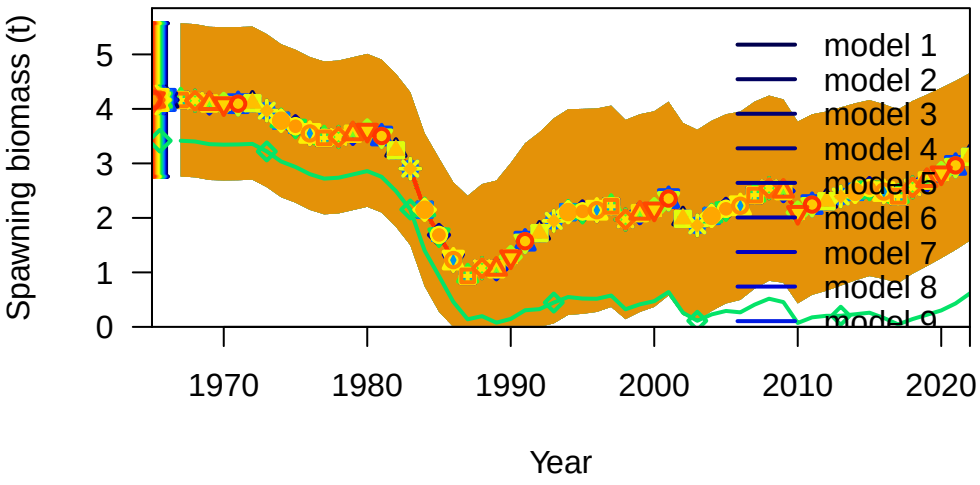

MVLN
SSB (t)
0
1
2
3
4
5
6
1970
1980
1990
2000
2010
2020
Year

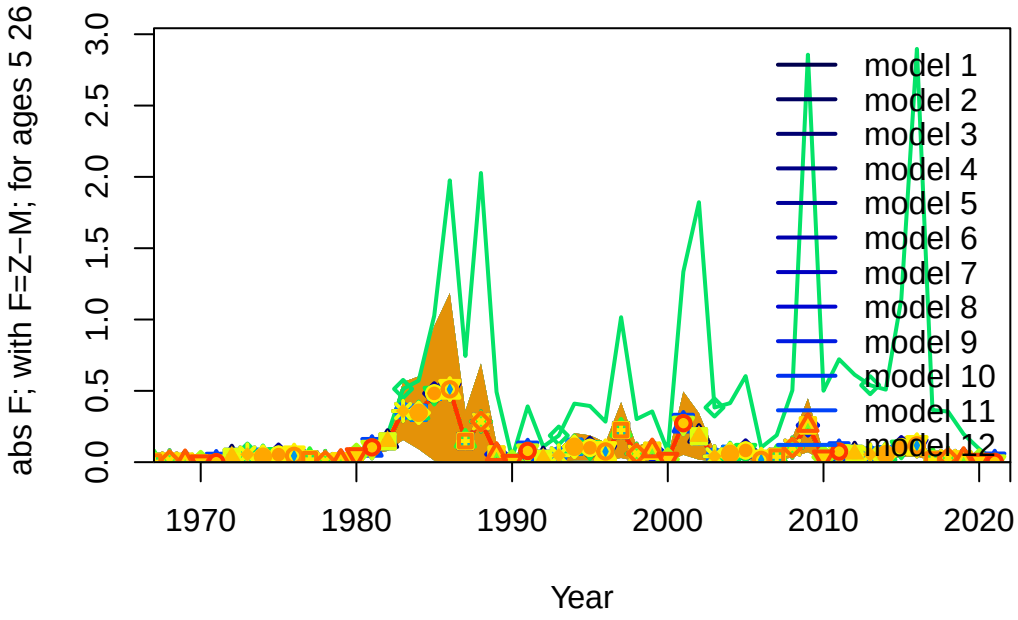


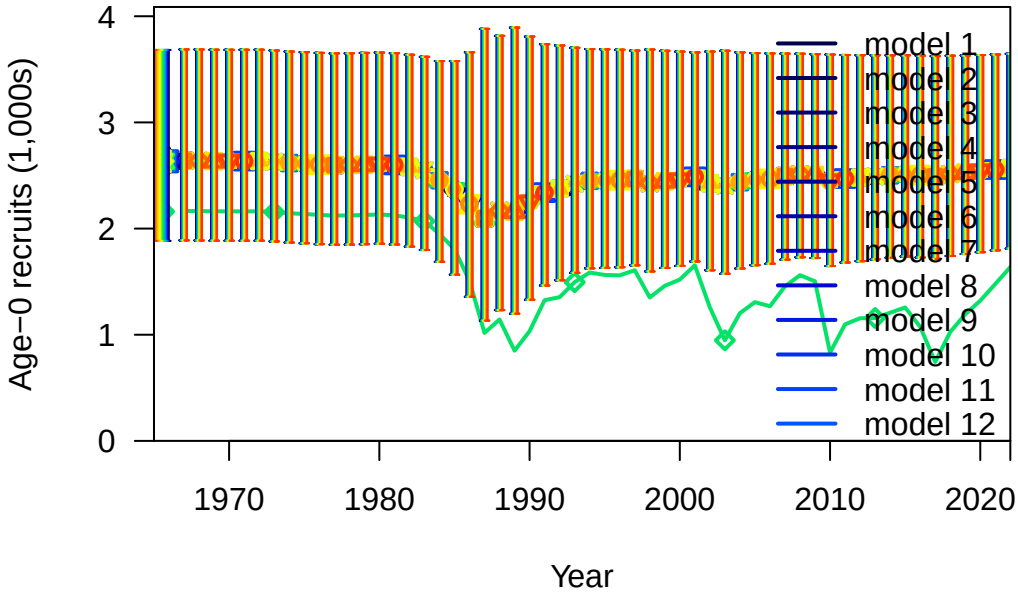

```
null device
          1
```

Jitter

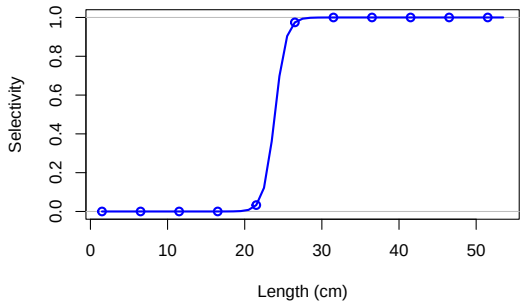

Likelihood
180
150
120
90
0
10
20
30
40
50
Run

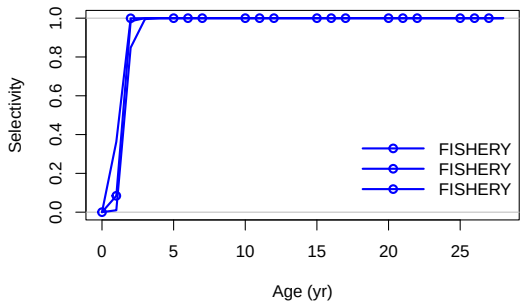

Spawning biomass (t)
5
4
3
2
1
0
1970
1980
1990
2000
2010
2020
Year
model 1
model 2
model 3
model 4
model 5
model 6
model 7
model 8
model 9

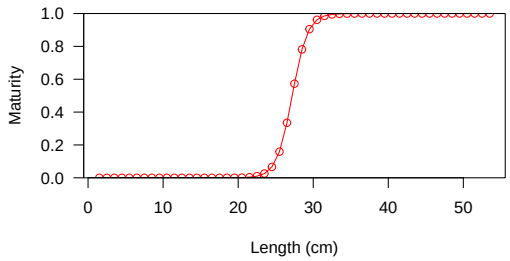


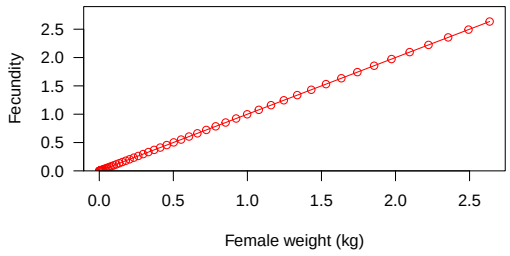


Selectivity and Maturity


Selectivity
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
Length (cm)


Selectivity
0.0
0.2
0.4
0.6
0.8
1.0
0
5
10
15
20
25
Age (yr)
FISHERY
FISHERY
FISHERY


Maturity
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
Length (cm)


Fecundity
0.0
0.5
1.0
1.5
2.0
2.5
0.0
0.5
1.0
1.5
2.0
2.5
Female weight (kg)