

# American Samoa Model Checks

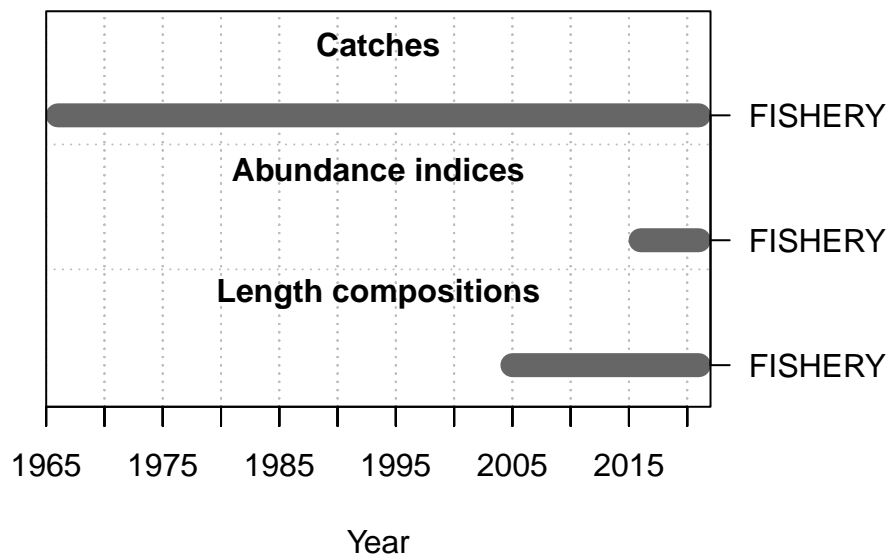
Marc Nadon and Meg Oshima

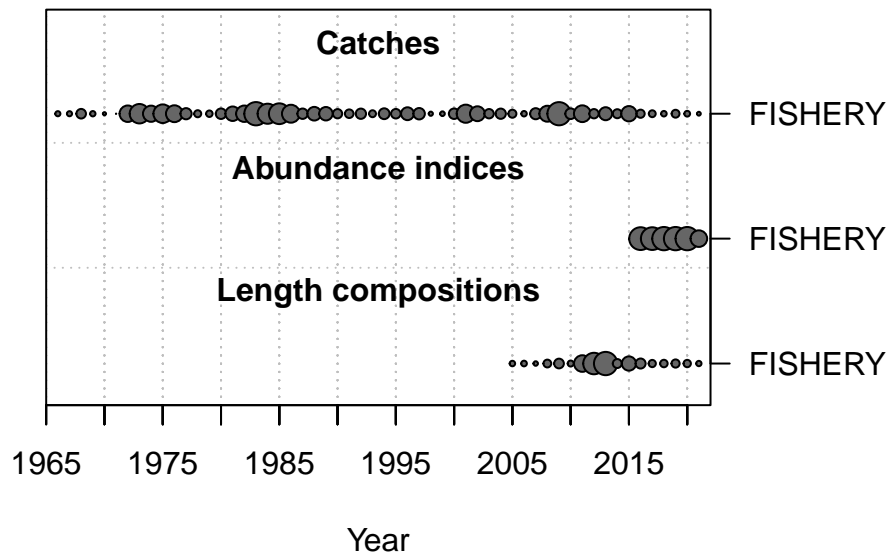
2023-01-13

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

## Model Output

### Input Data





### Convergence Check

```

Converged    MaxGrad
1      TRUE 0.00011917

```

```

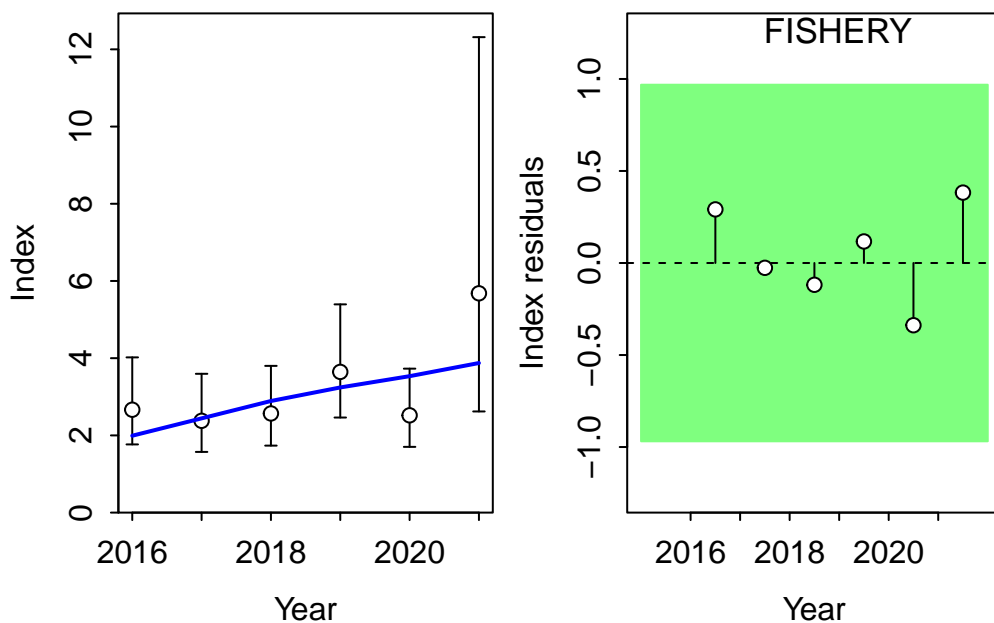
[1] "1 NOTE:  Max data length bin: 38.5  < max pop len bins: 43; so will accumulate larger p
[2] "2 Final gradient: 0.00011917 is larger than final_conv: 0.0001"
[3] "N warnings: 2"

```

### Fit to Model

#### CPUE

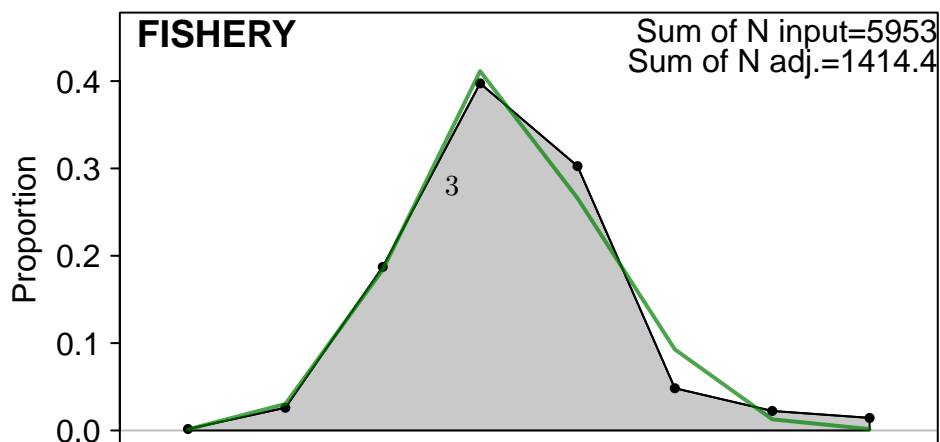
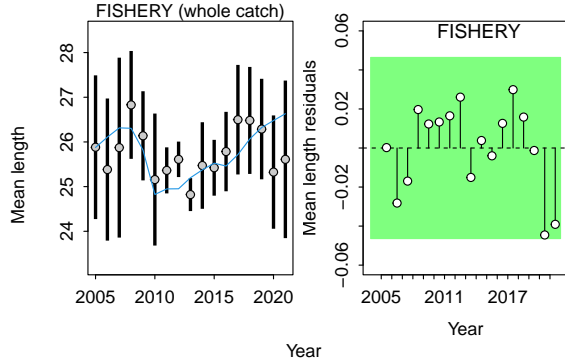
Fleet	RMSE.perc	Nobs
FISHERY	25	6
Combined	25	6

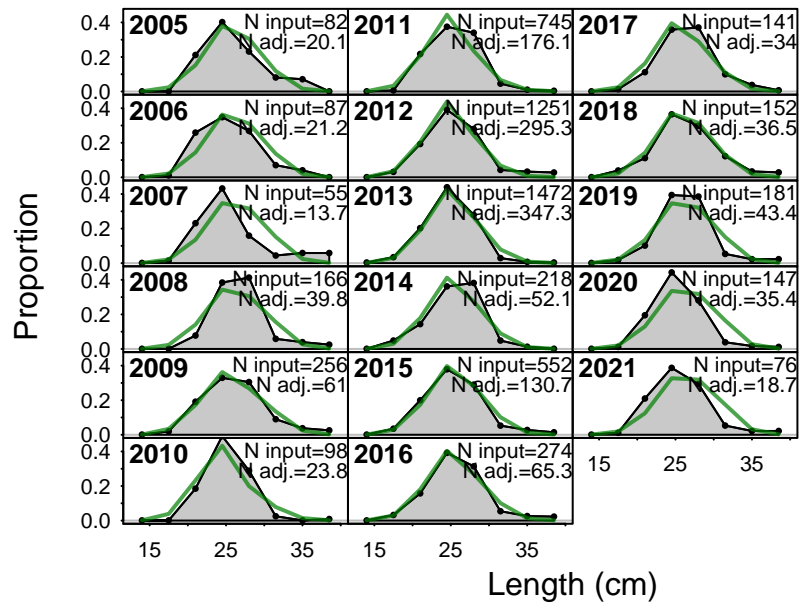


### Length Comp

Fleet	RMSE.perc	Nobs
FISHERY	2.1	17
Combined	2.1	17

w lo hi Index runs.p test sigma3.lo sigma3.hi type  
 0.5910170 0.3311884 1.6924542 1 FISHERY 0.261 Passed -0.0463969 0.0463969 len





## Retrospective

[1] "No retrospective runs were found"

## Hindcasting

[1] "No information for hindcast was found"

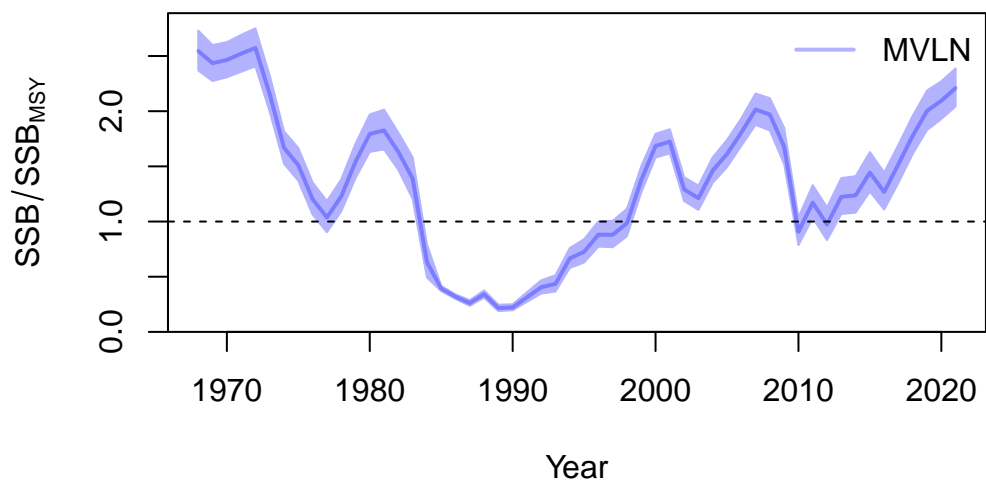
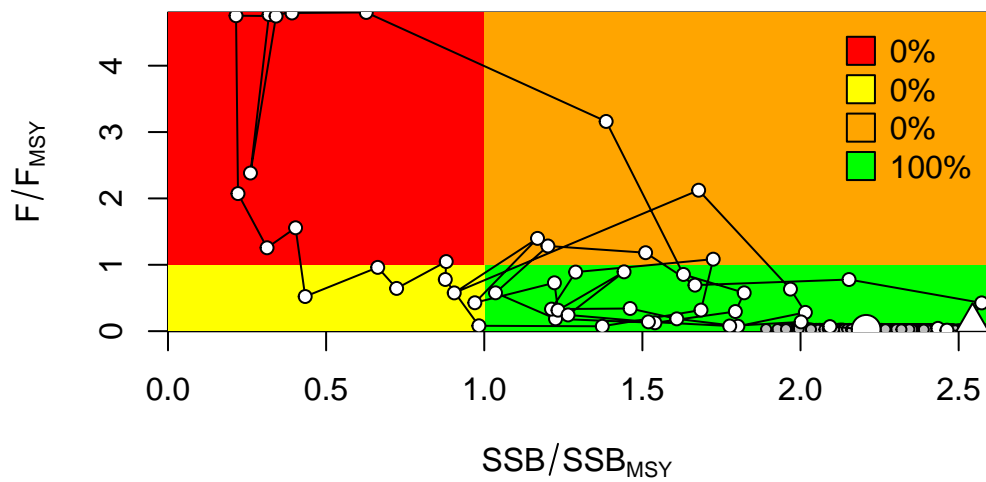
## Recruitment Deviations

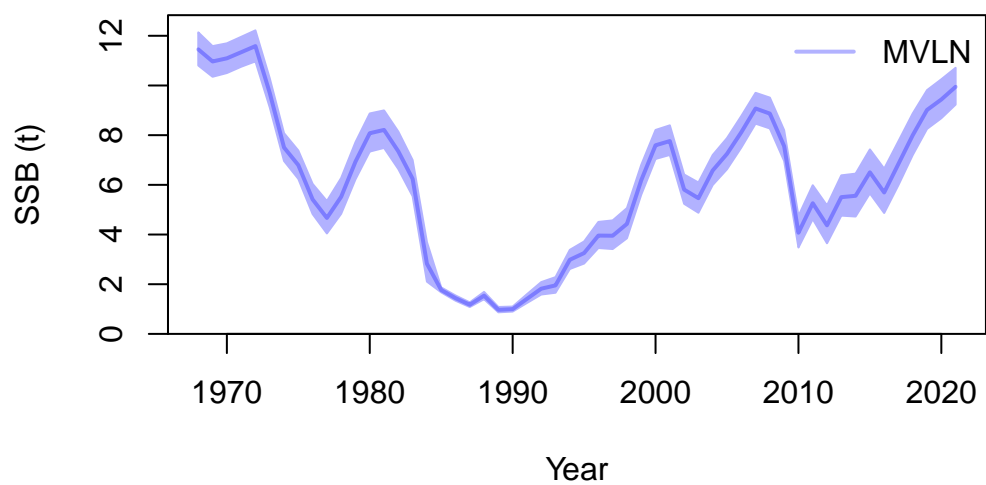
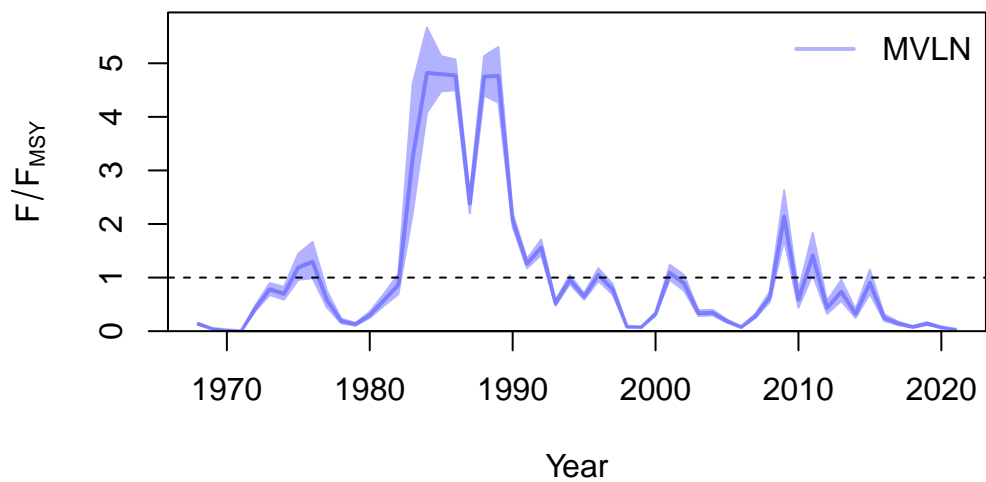
## Likelihood Profile

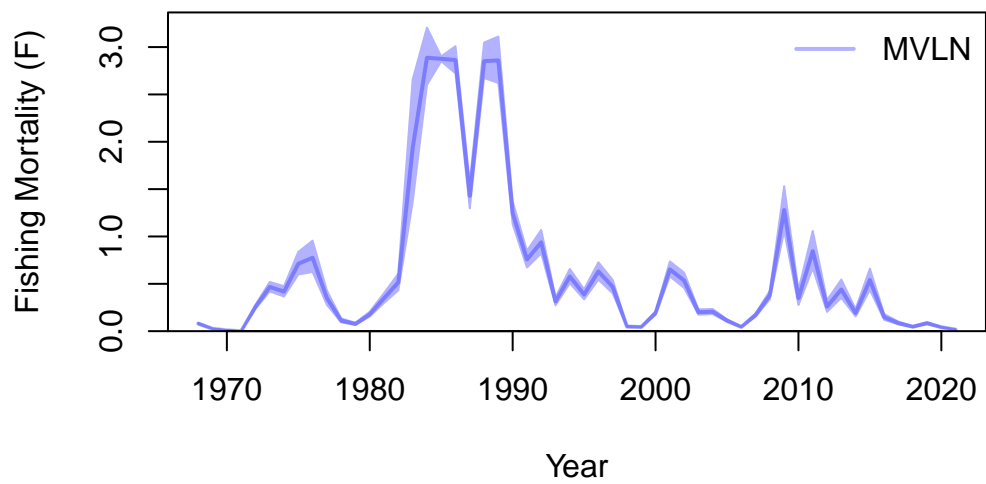
[1] "No likelihood runs were found"

## Management Quantities

starter.sso with Bratio:  $SSB/SSB_{MSY}$  and  $F: \_abs\_F$

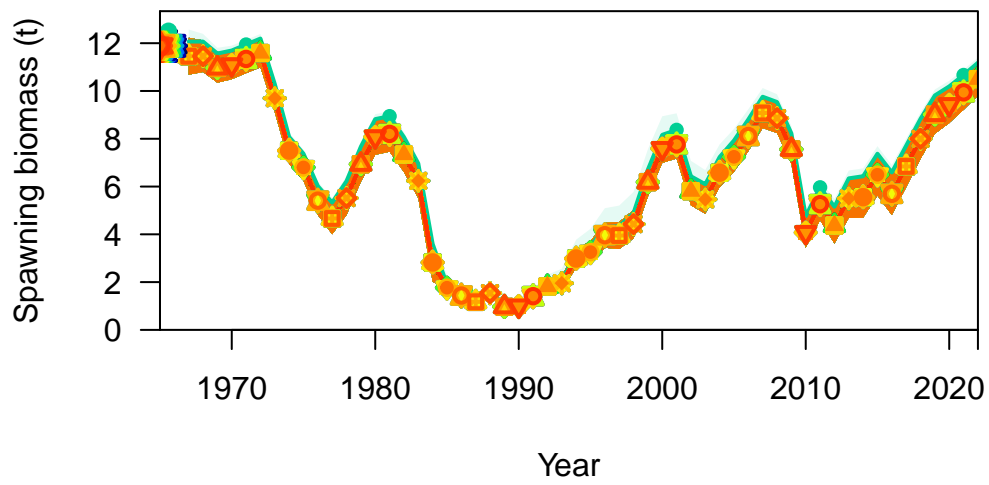
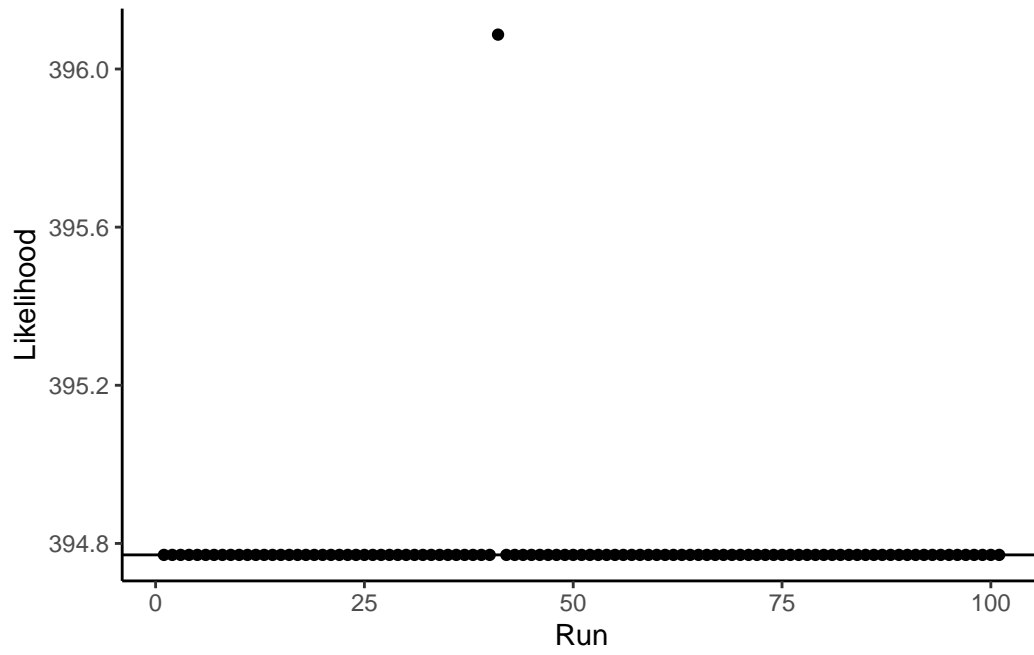




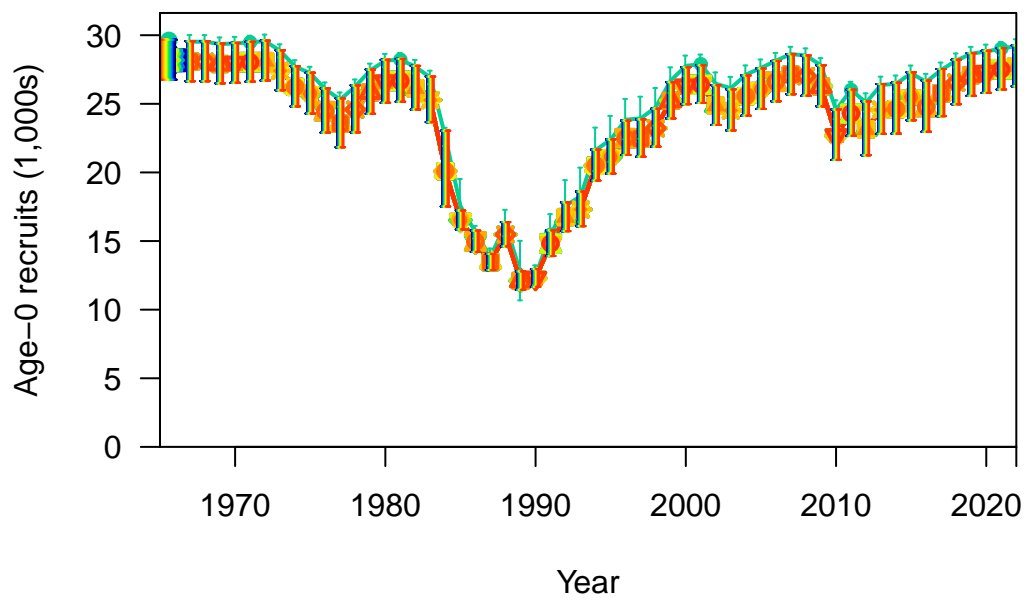
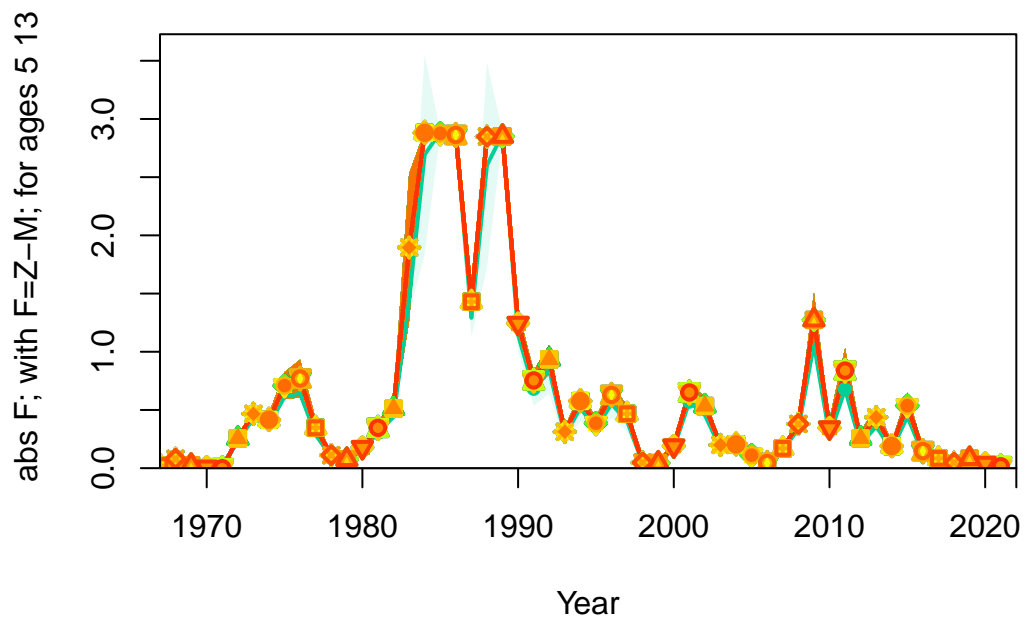


null device  
1

**Jitter**







**Selectivity and Maturity**

