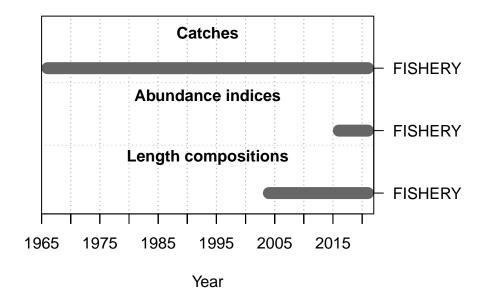
American Samoa Model Checks

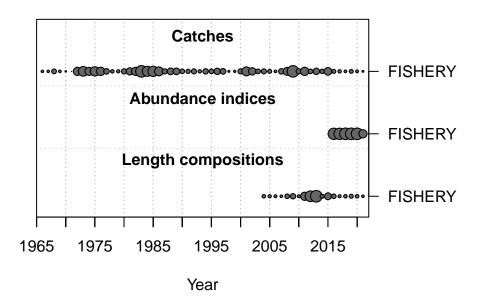
2022-10-20

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

Model Output

Input Data





Convergence Check

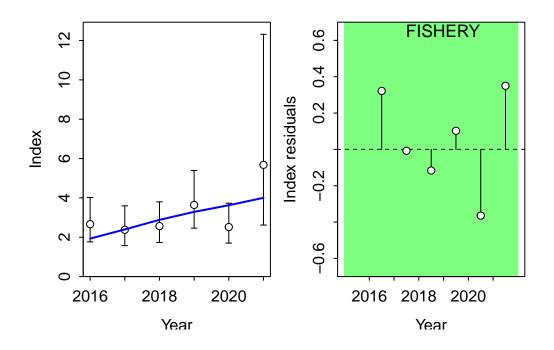
Converged MaxGrad 1 TRUE 5.37496e-05

[1] "1 NOTE: Max data length bin: 38.5 < max pop len bins: 43; so will accumulate larger pop len bins: 43; so

Fit to Model

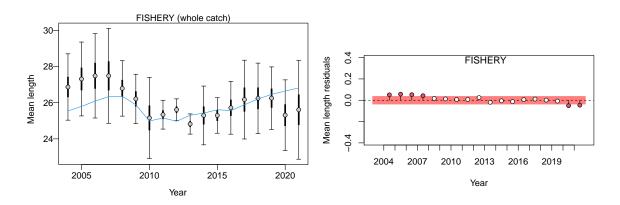
CPUE

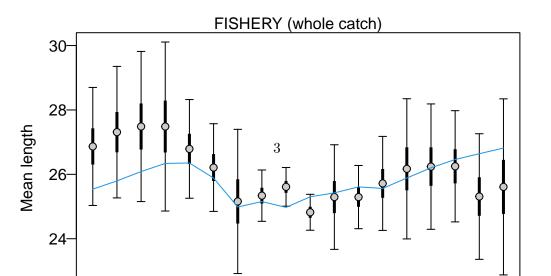
Fleet	RMSE.perc	Nobs
FISHERY	25.3	6
Combined	25.3	6

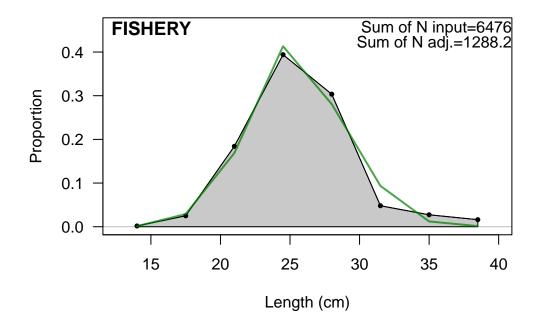


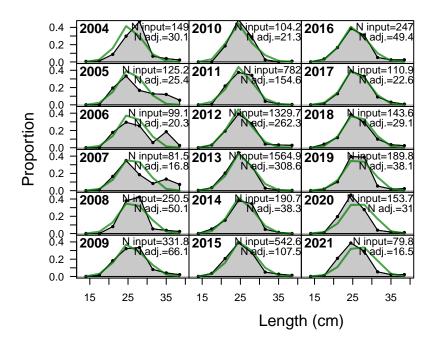
Length Comp

Fleet	RMSE.perc	Nobs
FISHERY	3.1	18
Combined	3.1	18



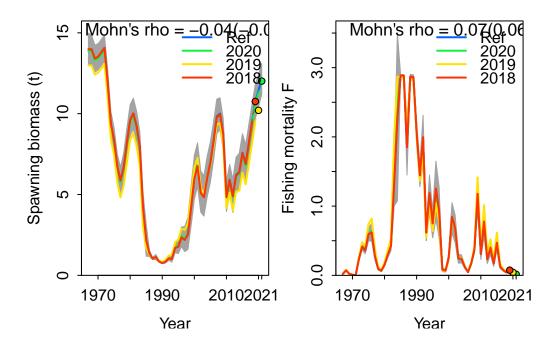






Retrospective

Mohn's Rho stats, including one step ahead forecasts:



Mohn's Rho stats, including one step ahead forecasts:

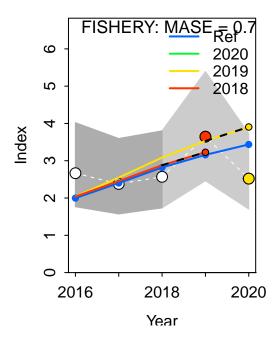
	type	peel	Rho	${\tt ForecastRho}$
1	F	2020	0.0183755682	0.016808086
2	F	2019	0.1948462475	0.176169738
3	F	2018	0.0007717129	0.000312617
4	F	Combined	0.0713311762	0.064430147

Hindcasting

Plotting Hindcast Cross-Validation (one-step-ahead)

Computing MASE with only 2 of 3 prediction residuals for Index FISHERY

Warning: Unequal spacing of naive predictions residuals may influence the interpretation of

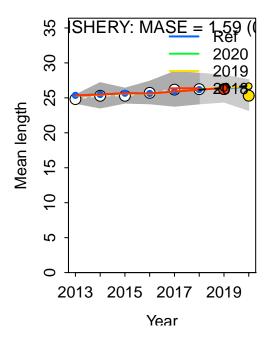


MASE stats by Index:
Plotting Hindcast Cross-Validation (one-step-ahead)

Computing MASE with only 2 of 3 prediction residuals for Index FISHERY

Warning: Unequal spacing of naive predictions residuals may influence the interpretation of

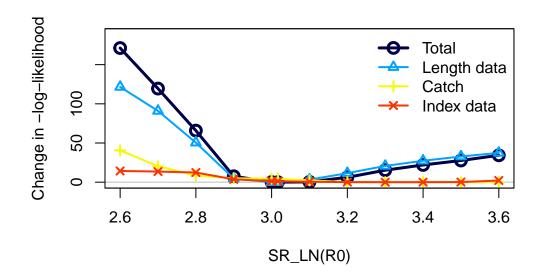
MASE stats by Index:



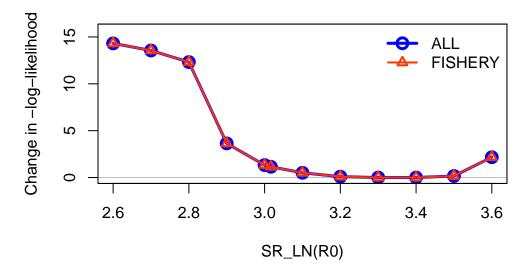
Recruitment Deviations

Likelihood Profile

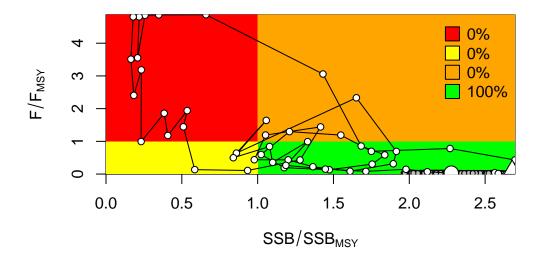
[1] "SR_LN"				
	<pre>frac_change</pre>	${\tt include}$		label
TOTAL	1.0000	TRUE		Total
Catch	0.2371	TRUE		Catch
Equil_catch	0.0000	FALSE		Equilibrium catch
Survey	0.0836	TRUE		Index data
Length_comp	0.7099	TRUE		Length data
Recruitment	0.0000	FALSE		Recruitment
InitEQ_Regime	0.0000	FALSE	${\tt Initital}$	equilibrium recruitment
Forecast_Recruitment	0.0000	FALSE		Forecast recruitment
Parm_priors	0.0027	FALSE		Priors
Parm_softbounds	0.0001	FALSE		Soft bounds
Parm_devs	0.0000	FALSE		Parameter deviations
Crash_Pen	0.0000	FALSE		Crash penalty

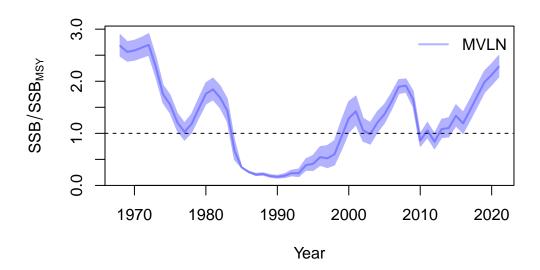


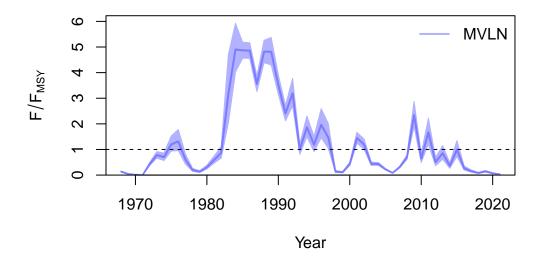
Changes in survey likelihood by fleet

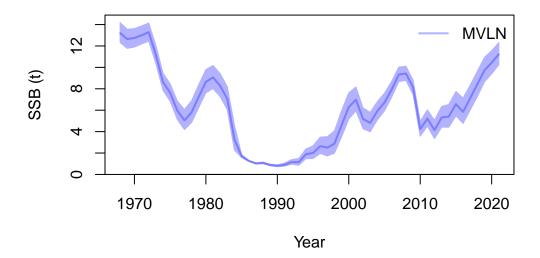


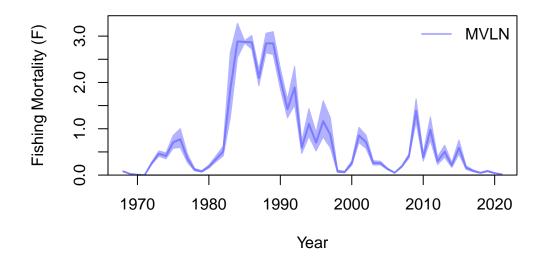
Management Quantities











null device

Jitter

