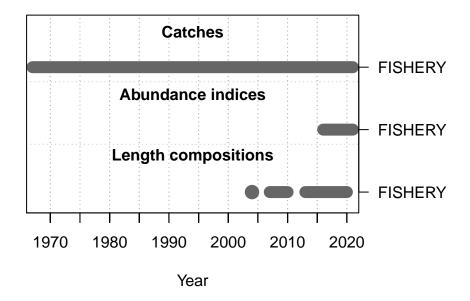
American Samoa Model Checks

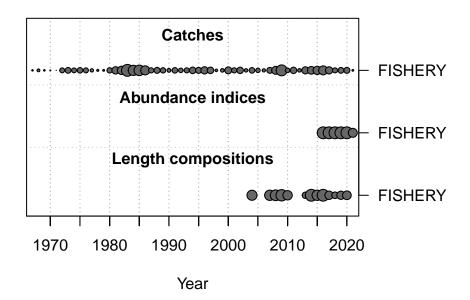
2022-10-16

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

Model Output

Input Data





Convergence Check

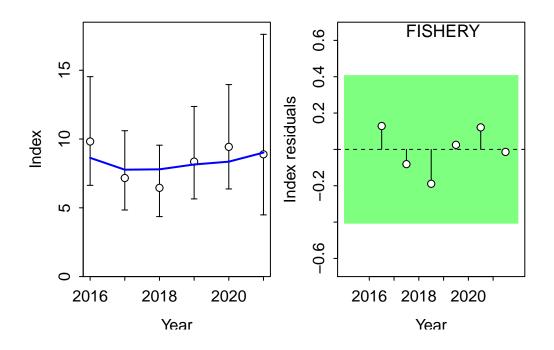
Converged MaxGrad 1 TRUE 6.21749e-06

[1] "1 NOTE: Max data length bin: 85 < max pop len bins: 94; so will accumulate larger pop [2] "N warnings: 1"

Fit to Model

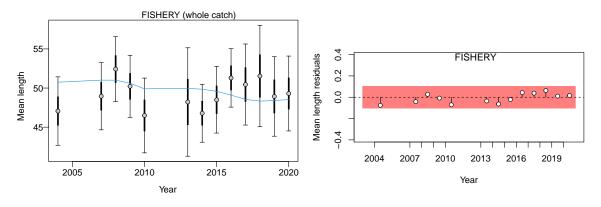
CPUE

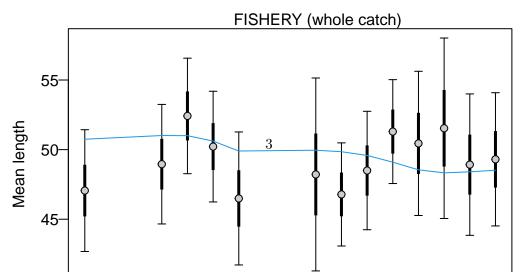
Fleet	RMSE.perc	Nobs
FISHERY	11.1	6
Combined	11.1	6

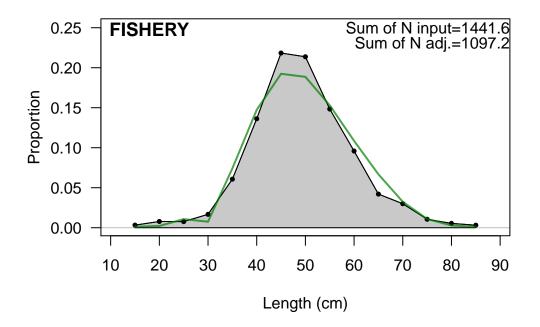


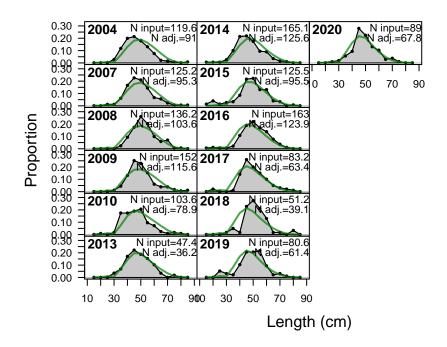
Length Comp

Fleet	RMSE.perc	Nobs
FISHERY	4.5	13
Combined	4.5	13



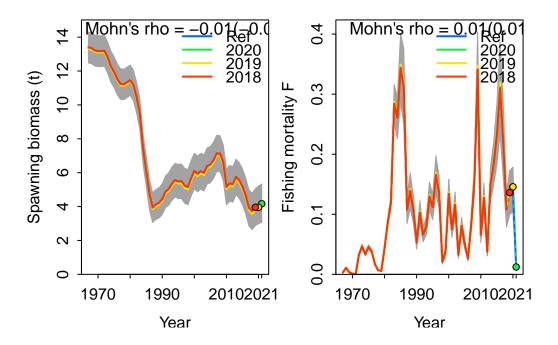






Retrospective

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



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

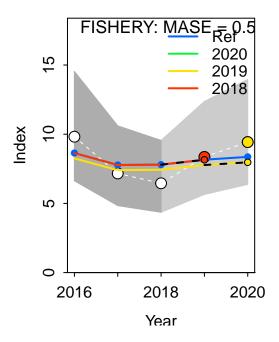
		-	D1	
	type	peel	Rho	ForecastRho
1	F	2020	0.0058440226	0.0056097641
2	F	2019	0.0308802372	0.0309393594
3	F	2018	-0.0001203648	-0.0001101031
4	F	Combined	0.0122012983	0.0121463402

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

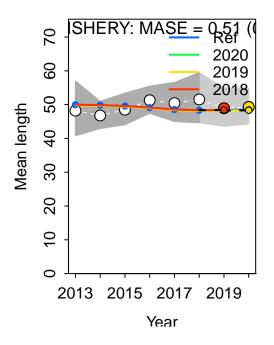


MASE stats by Index: Plotting Hindcast Cross-Validation (one-step-ahead)

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

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

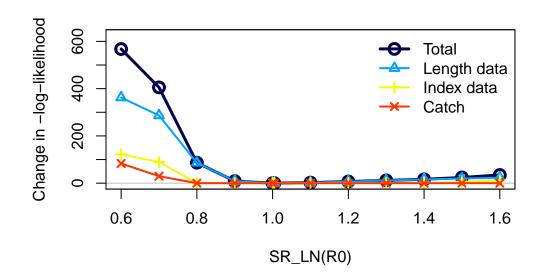
MASE stats by Index:



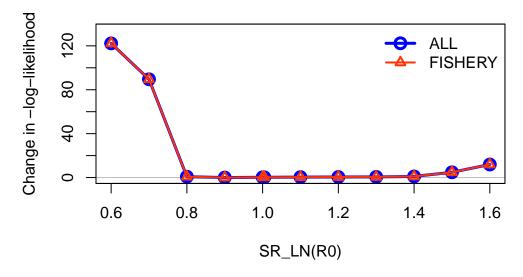
Recruitment Deviations

Likelihood Profile

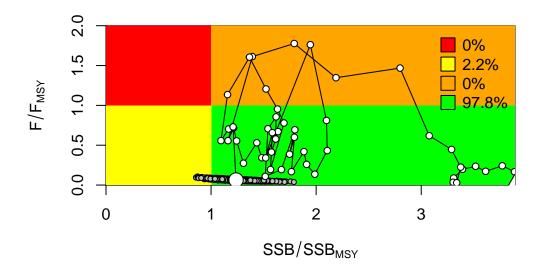
[1] "SR_LN"				
	<pre>frac_change</pre>	${\tt include}$		label
TOTAL	1.0000	TRUE		Total
Catch	0.1468	TRUE		Catch
Equil_catch	0.0000	FALSE		Equilibrium catch
Survey	0.2153	TRUE		Index data
Length_comp	0.6384	TRUE		Length data
Recruitment	0.0000	FALSE		Recruitment
InitEQ_Regime	0.0000	FALSE	${\tt Initital}$	equilibrium recruitment
Forecast_Recruitment	0.0000	FALSE		Forecast recruitment
Parm_priors	0.0003	FALSE		Priors
Parm_softbounds	0.0000	FALSE		Soft bounds
Parm_devs	0.0000	FALSE		Parameter deviations
Crash_Pen	0.0000	FALSE		Crash penalty

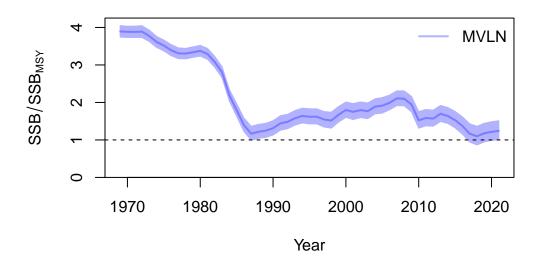


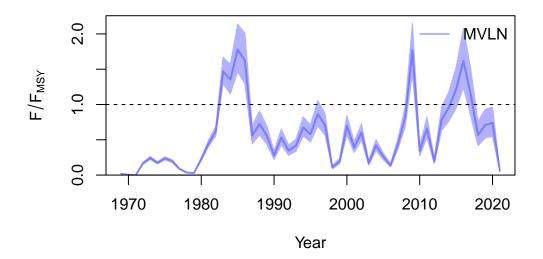
Changes in survey likelihood by fleet

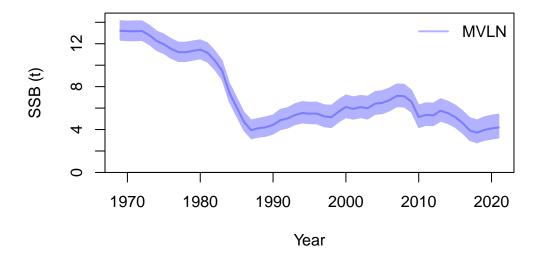


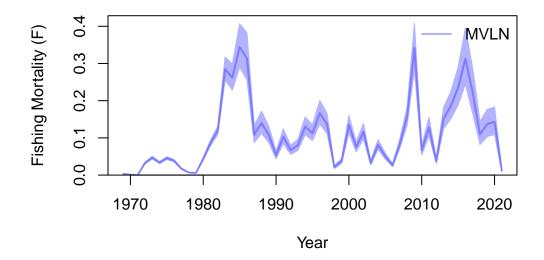
Management Quantities











null device

Jitter

