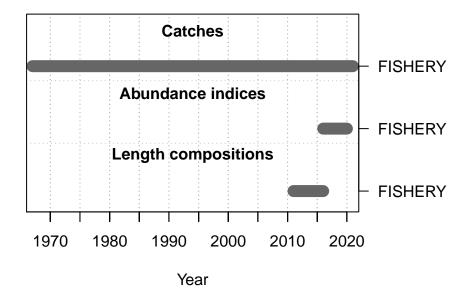
American Samoa Model Checks

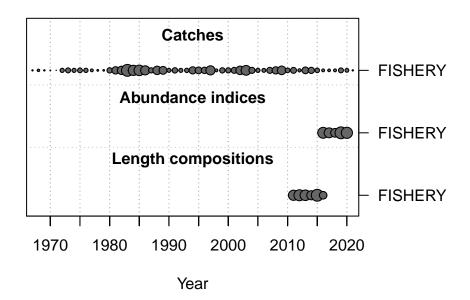
2022-10-11

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

Model Output

Input Data





Convergence Check

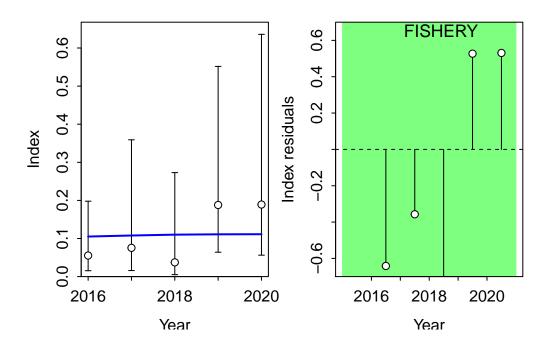
Converged MaxGrad
TRUE 7.121e-06

[1] "1 NOTE: Max data length bin: 51 < max pop len bins: 57; so will accumulate larger pop [2] "N warnings: 1"

Fit to Model

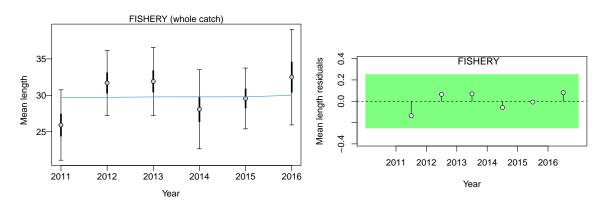
CPUE

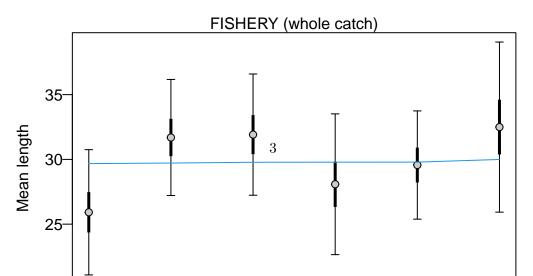
Fleet	RMSE.perc	Nobs
FISHERY	67.3	5
Combined	67.3	5

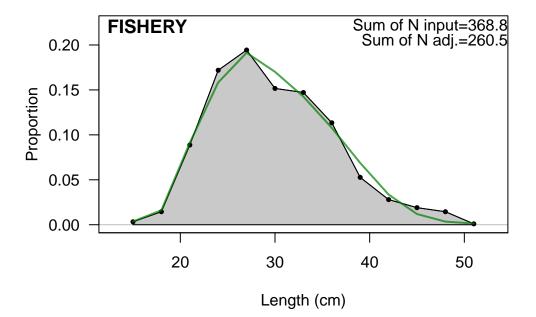


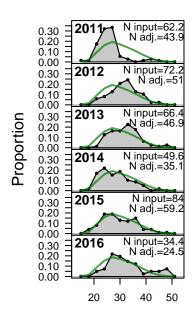
Length Comp

Fleet	RMSE.perc	Nobs
FISHERY	7.9	6
Combined	7.9	6





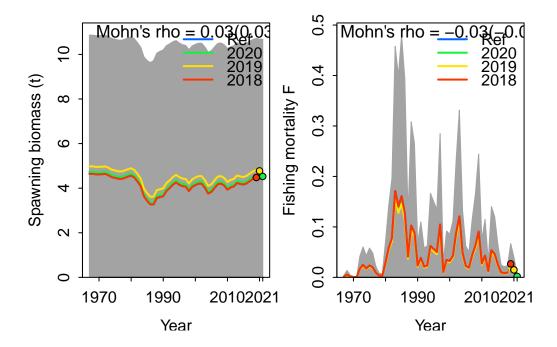




Length (cm)

Retrospective

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



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

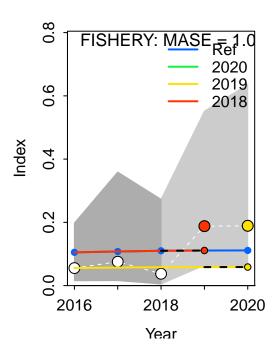
	type	peel	Rho	ForecastRho
	бурс	PCCI	10110	1 OI CCAB OIMIO
1	F	2020	-0.02116125	-0.02090267
2	F	2019	-0.07409419	-0.07390237
3	F	2018	0.00000000	0.00000000
4	F	Combined	-0.03175181	-0.03160168

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)

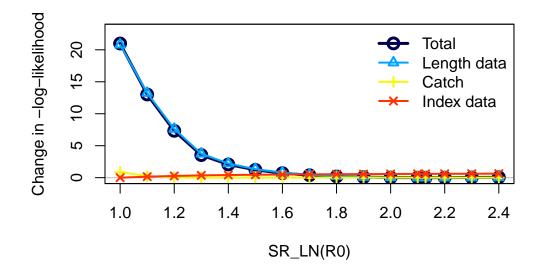
No observations in evaluation years to compute prediction residuals for Index FISHERY MASE stats by Index:

Recruitment Deviations

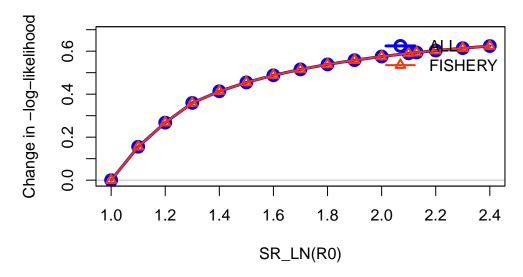
Likelihood Profile

[1] "SR_LN"					
	<pre>frac_change</pre>	${\tt include}$			label
TOTAL	1.0000	TRUE			Total
Catch	0.0411	TRUE			Catch
Equil_catch	0.0000	FALSE		Equil:	ibrium catch
Survey	0.0297	TRUE			Index data
Length_comp	0.9911	TRUE			Length data
Recruitment	0.0000	FALSE			Recruitment
InitEQ_Regime	0.0000	FALSE	${\tt Initital}$	${\tt equilibrium}$	recruitment

Forecast_Recruitment	0.0000	FALSE	Forecast recruitment
Parm_priors	0.0053	FALSE	Priors
Parm_softbounds	0.0001	FALSE	Soft bounds
Parm_devs	0.0000	FALSE	Parameter deviations
Crash_Pen	0.0000	FALSE	Crash penalty

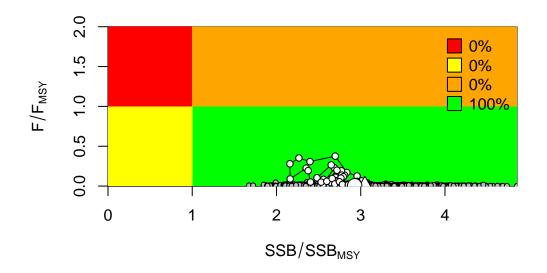


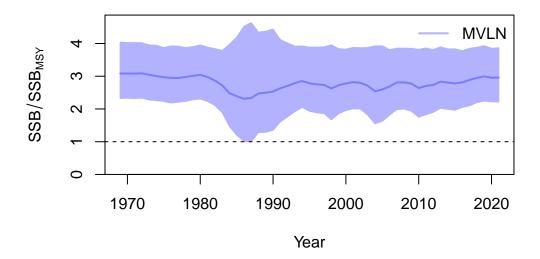
Changes in survey likelihood by fleet

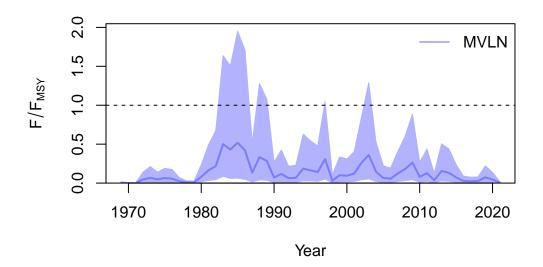


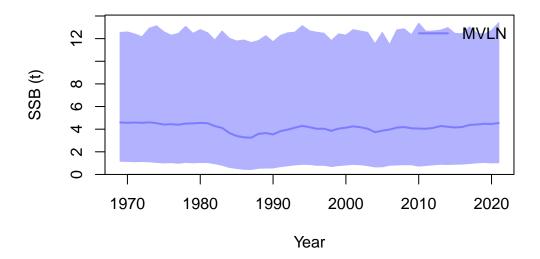
Management Quantities

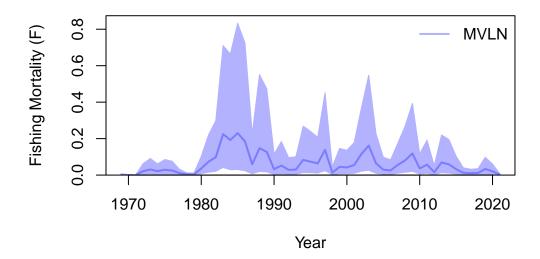
starter.sso with Bratio: SSB/SSBMSY and F: $_abs_F$











null device

Jitter

