

	Object	Model name		Description	path
	SS 3.24	13.sq		2013 Assessment SS3.24	model/2013_SST
0. Transition					
Item 0.0	SS 3.30.21	23.sq.fixQ		2023 Assessment SS3.30-fixed catchability	model/2013_SST_SSV3_30_21
	All Param fixed	23.sq.fix		13.sq assessment (SS V3.30.32) - All param fixed	model/Sensitivity_Anal/0.1_Bridging_models/23.sq.fix
	Floating Q	23.sq.floatQ	13.sq assessment (SS V3.30.21) - Param estimated as before but Q floating		model/Sensitivity_Anal/0.1_Bridging_models/23.sq.floatQ
Item 0.1	All Param estimated	23.sq.est		13.sq assessment (SS V3.30.21) - All param estimated	model/Sensitivity_Anal/0.1_Bridging_models/23.sq.est
	Update landings	23.land.update		23.sq.floatQ + landings updated	model/Sensitivity_Anal/0.2_Update_Data/1_23.land.update
Item 0.2	Updates discard rates	23.disc.update		23.land.update + discards updated	model/Sensitivity_Anal/0.2_Update_Data/2_23.disc.update
	Update survey geostat indices	23.surv_geo.update		23.disc.update + geo Indices	model/Sensitivity_Anal/0.2_Update_Data/3_23.surv_geo.update
	Update survey length comps	23.lcs_survey.update		23.surv_geo.update + Surv Lcs	model/Sensitivity_Anal/0.2_Update_Data/4_23.lcs_survey.update
	Update fisheries length comps	23.lcs_fisheries.update		23.lcs_survey.update + Fisheries Lcs	model/Sensitivity_Anal/0.2_Update_Data/5_23.lcs_fisheries.update
	Update discard mean weights	23.disc_weight.update		23.lcs_fisheries.update + Discard weight updated	model/Sensitivity_Anal/0.2_Update_Data/6_23.disc_weight.update
	Update growth	23.growth.update		23.disc_weight.update + growth updated	model/Sensitivity_Anal/0.2_Update_Data/7_23.growth.update
	Update maturity	23.maturity.update		23.growth.update + maturity updated	model/Sensitivity_Anal/0.2_Update_Data/8_23.maturity.update
	Update fecundity	23.fecundity.update		23.maturity.update + fecundity updated	model/Sensitivity_Anal/0.2_Update_Data/9_23.fecundity.update
	Update natural mortality	23.mortality.update		23.fecundity.update + mortality updated	model/Sensitivity_Anal/0.2_Update_Data/10_23.mortality.update
1. Landings					
Item 1.1	Imputed historical landings	23.land.hist_impute		Use imputed historical landings	model/Sensitivity_Anal/1.1_Landings_Sensitivity/1_23.land.hist_impute
	2013 assessment landings	23.land.2013		Use 2013 assessment landings	model/Sensitivity_Anal/1.1_Landings_Sensitivity/2_23.land.2013
Item 1.2	ASHOP Catches	23.landings.ashop		23.model.francis_2 + ASHOP catches	model/Sensitivity_Anal/1.2_Landings_ashop/1_23.landings.ashop
Item 1.3	23.landings.4fleet	23.landings.4fleet		Base Model + 4 commercial fleets	model/Sensitivity_Anal/1.3_Landings_4fleet/1_23.landings.4fleet
3. Surveys					
Item 3.1	gamma vs ln error	23.surveys.gamvln	23.model.francis_2 with lognormal error structure in geostatistical abundance indices		model/Sensitivity_Anal/3.1_surveys_Sensitivity/1_23.surveys.gamvln
Item 3.2	MB vs DB indices	23.surveys.db		base model w/ design-based indices	model/Sensitivity_Anal/3.2_surveys2_Sensitivity/1_23.surveys.db
	No Triennial Survey	23.surveys.notriennial		3 fleet 1 survey model structure	model/Sensitivity_Anal/3.3_surveys3_Sensitivity/3_23.surveys.notriennial
Item 3.3	extra SD on WCGBTS	23.surveys.extaSDwcgbts		base model with an additional SD paramter estimated for WCGBTS	model/Sensitivity_Anal/3.3_surveys3_Sensitivity/2_23.surveys.extaSDwcgbts
	2 survey vs 4 survey structure	23.surveys.useslope		3 fleet 4 survey model structure	model/Sensitivity_Anal/3.3_surveys3_Sensitivity/1_23.surveys.useslope
4. Biological Info					
Item 4.1	Growth Sensitivity Low	23.growth.low		23.model.francis_2 + low growth	model/Sensitivity_Anal/4.1_Growth_Sensitivity/2_23.growth.low
	Growth Sensitivity High	23.growth.high		23.model.francis_2 + high growth	model/Sensitivity_Anal/4.1_Growth_Sensitivity/1_23.growth.high
Item 4.2	Intermediate maturity curve	23.maturity.mix_curve		23.model.francis_2 + intermediate maturity curve	model/Sensitivity_Anal/4.2_Maturity_Sensitivity/2_23.maturity.mix_curve
	PG maturity	23.maturity.pgcurve		23.model.francis_2 + PG maturity	model/Sensitivity_Anal/4.2_Maturity_Sensitivity/1_23.maturity.pgcurve
Item 4.3	Sensitivity to fecundity	23.biology.no_fecundity		Remove the length-fecundity relationship from base model	model/Sensitivity_Anal/4.3_Fecundity_Sensitivity/1_23.biology.no_fecundity
5. Model					
Item 5.1	Update Initial RecDev Year	23.model.recdevs_initYear		23.model.recdevs_termYear + inityear change	model/Sensitivity_Anal/5.1_Explore_RecDevs/2_23.model.recdevs_initYear
	Update Terminal RecDev Year	23.model.recdevs_termYear		23.mortality.update + termyear change	model/Sensitivity_Anal/5.1_Explore_RecDevs/1_23.model.recdevs_termYear
	S-R Steepness	23.model.recdevs_steep		23.model.recdevs_initYear + h=0.72	model/Sensitivity_Anal/5.1_Explore_RecDevs/3_23.model.recdevs_steep
Item 5.3	Bias Adjustment Years	23.model.recdevs_bias		23.model.recdevs_steep + biaspars updated	model/Sensitivity_Anal/5.1_Explore_RecDevs/4_23.model.recdevs_bias
	Francis Reweighting	23.model.francis_2		23.model.fleetstruct_5 + new Francis weights	model/Sensitivity_Anal/5.3_Francis_Reweighting/1_23.model.francis_2
Item 5.4	Survey Timing	23.model.survey_timing		survey timing = -1	model/Sensitivity_Anal/5.4_SS_Model_Warnings/1_23.model.survey_timing
	Settlement Events	23.model.settlement_events		simple settlement event	model/Sensitivity_Anal/5.4_SS_Model_Warnings/2_23.model.settlement_events
Item 5.5	Remove small sample size LCs	23.model.sample_sizes		remove small sample sizes	model/Sensitivity_Anal/5.5_Improve_LC_Fits/1_23.model.sample_sizes
	Improve Other LC Fits	23.model.improve_other		change other fleet selectivity pars	model/Sensitivity_Anal/5.5_Improve_LC_Fits/4_23.model.improve_other
	Sex-Specific Survey Selectivity	23.model.sexed_survey_selectivity		sex-specific survey selectivity	model/Sensitivity_Anal/5.5_Improve_LC_Fits/2_23.model.sexed_survey_selectivity
	Improve Trawl_N LC Fit	23.model.improve_trawln		change Trawl_N selectivity pars	model/Sensitivity_Anal/5.5_Improve_LC_Fits/3_23.model.improve_trawln
Item 5.6	Modify recdevs init year	23.model.recdevs_inityear_1996		update recdevs 1996	model/Sensitivity_Anal/5.6_Update_Recdevs_inityear/1_23.model.recdevs_inityear_1996
Item 5.7	Fix warnings	23.fix_warnings		Fix warnings	model/Sensitivity_Anal/5.7_Fix_Warnings/1_23.fix_warnings
Item 5.8	Francis Reweighting 2	23.model.francis_2		francis weighting part 2	model/Sensitivity_Anal/5.8_Francis_Reweighting_2/1_23.model.francis_2
	bik Trawl 89	23.bikret.T1		bik Trawl 89	model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/1_23.bikret.T1
Item 5.9	bik Trawl mid10	23.bikret.T2		bik Trawl mid10	model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/2_23.bikret.T2
	bik Trawl 89-mid10	23.bikret.T3		bik Trawl 89-mid10	model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/3_23.bikret.T3
	bik Trawl 89-mid10-19	23.bikret.T4		bik Trawl 89-mid10-19	model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/4_23.bikret.T4
	bik Trawl 89-mid10 NonTrawl 05-13	23.bikret.T3.NT1		bik Trawl 89-mid10 NonTrawl 05-13	model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/5_23.bikret.T3.NT1
	bik Trawl 89-mid10 NonTrawl 05-13-17	23.bikret.T3.NT2		bik Trawl 89-mid10 NonTrawl 05-13-17	model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/6_23.bikret.T3.NT2
Item 5.10	Prior on Selectivity - 3 Bkls	23.slx.Prior.3Bk		23.bikret.T3 + 3 Time Blocks	model/Sensitivity_Anal/5.10_Prior_Selectivity_Sensitivity/3_23.slx.Prior.3Bk
	Prior on Selectivity - 1 Bk	23.slx.Prior.1Bk		23.bikret.T3 + 1 Time Block	model/Sensitivity_Anal/5.10_Prior_Selectivity_Sensitivity/1_23.slx.Prior.1Bk
	Prior on Selectivity - 2 Bkls	23.slx.Prior.2Bk		23.bikret.T3 + 2 Time Blocks	model/Sensitivity_Anal/5.10_Prior_Selectivity_Sensitivity/2_23.slx.Prior.2Bk
Item 5.11	base bkssel 2003	23.bkssel.T1		base bkssel 2003	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/1_23.bkssel.T1
	base bkssel 2011	23.bkssel.T2		base bkssel 2011	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/2_23.bkssel.T2
	base bkssel 2003+2011	23.bkssel.T3		base bkssel 2003+2011	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/3_23.bkssel.T3
	base bkssel 2003+2011+2019	23.bkssel.T4		base bkssel 2003+2011+2019	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/4_23.bkssel.T4
	bikretT3 bkssel 2003	23.bikret.T3.bkssel.T1		bikretT3 bkssel 2003	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/5_23.bikret.T3.bkssel.T1
	bikretT3 bkssel 2011	23.bikret.T3.bkssel.T2		bikretT3 bkssel 2011	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/6_23.bikret.T3.bkssel.T2
	bikretT3 bkssel 2003+2011	23.bikret.T3.bkssel.T3		bikretT3 bkssel 2003+2011	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/7_23.bikret.T3.bkssel.T3
	bikretT3 bkssel 2003+2011+2019	23.bikret.T3.bkssel.T4		bikretT3 bkssel 2003+2011+2019	model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/8_23.bikret.T3.bkssel.T4
Item 5.12	Dirichlet Multinomial Length Comps	23.dmn		DMN length comps	model/Sensitivity_Anal/5.12_Dirichlet_Multinomial/1_23.dmn
Item 5.13	Fix M at 0.045	23.STAR_Panel.M.045		23.model.francis_2 + M fixed at 0.045	model/Sensitivity_Anal/STAR_Panel/5.13_Request_3/1_23.STAR_Panel.M.045
	Fix M at 0.05	23.STAR_Panel.M.05		23.model.francis_2 + M fixed at 0.05	model/Sensitivity_Anal/STAR_Panel/5.13_Request_3/2_23.STAR_Panel.M.05