

Sensitivity analyses models.					
	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
Item 0.1	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
Item 0.1	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
Item 0.2	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
Item 0.2	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
Item 0.2	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
Item 0.2	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
Item 0.2	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
Item 0.2	Update growth	23.growth.update	23.disc_weight.update + growth updated		model/Sensitivity_Anal/0.2_Update_Data/7_23.growth.update
Item 0.2	Update maturity	23.maturity.update	23.growth.update + maturity updated		model/Sensitivity_Anal/0.2_Update_Data/8_23.maturity.update
Item 0.2	Update fecundity	23.fecundity.update	23.maturity.update + fecundity updated		model/Sensitivity_Anal/0.2_Update_Data/9_23.fecundity.update
Item 0.2	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
Item 1.1	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
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
Item 3.3	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	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
Item 3.3	extra SD on WGBTS	23.surveys.extraSDwgbts	base model with an additional SD parameter estimated for WGBTS		model/Sensitivity_Anal/3.3_surveys3_Sensitivity/2_23.surveys.extraSDwgbts
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
Item 4.1	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
Item 4.2	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
Item 5.1	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
Item 5.1	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
Item 5.1	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	Francis Reweighting	23.model.francis	23.model.fleetstruct_5 + new Francis weights		model/Sensitivity_Anal/5.3_Francis_Reweighting/1_23.model.francis
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
Item 5.4	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
Item 5.5	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
Item 5.5	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
Item 5.5	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 recdev init year	23.model.recdevs_inityear_1996	update recdevs 1996		model/Sensitivity_Anal/5.6_Update_RecDevs_1996/1_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
Item 5.9	blk Trawl 89	23.blkret.T1	blk Trawl 89		model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/1_23.blkret.T1
Item 5.9	blk Trawl mid10	23.blkret.T2	blk Trawl mid10		model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/2_23.blkret.T2
Item 5.9	blk Trawl 89-mid10	23.blkret.T3	blk Trawl 89-mid10		model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/3_23.blkret.T3
Item 5.9	blk Trawl 89-mid10-19	23.blkret.T4	blk Trawl 89-mid10-19		model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/4_23.blkret.T4
Item 5.9	blk Trawl 89-mid10 NonTrawl 05-13	23.blkret.T3.NT1	blk Trawl 89-mid10 NonTrawl 05-13		model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/5_23.blkret.T3.NT1
Item 5.9	blk Trawl 89-mid10 NonTrawl 05-13-17	23.blkret.T3.NT2	blk Trawl 89-mid10 NonTrawl 05-13-17		model/Sensitivity_Anal/5.9_Retention_Selectivity_Sensitivity/6_23.blkret.T3.NT2
Item 5.10	Prior on Selectivity - 3 Blks	23.slx.Prior.3Blk	23.blkret.T3 + 3 Time Blocks		model/Sensitivity_Anal/5.10_Prior_Selectivity_Sensitivity/3_23.slx.Prior.3Blk
Item 5.10	Prior on Selectivity - 1 Blk	23.slx.Prior.1Blk	23.blkret.T3 + 1 Time Block		model/Sensitivity_Anal/5.10_Prior_Selectivity_Sensitivity/1_23.slx.Prior.1Blk
Item 5.10	Prior on Selectivity - 2 Blks	23.slx.Prior.2Blk	23.blkret.T3 + 2 Time Blocks		model/Sensitivity_Anal/5.10_Prior_Selectivity_Sensitivity/2_23.slx.Prior.2Blk
Item 5.11	base blkSEL 2003	23.blkSEL.T1	base blkSEL 2003		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/1_23.blkSEL.T1
Item 5.11	base blkSEL 2011	23.blkSEL.T2	base blkSEL 2011		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/2_23.blkSEL.T2
Item 5.11	base blkSEL 2003+2011	23.blkSEL.T3	base blkSEL 2003+2011		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/3_23.blkSEL.T3
Item 5.11	base blkSEL 2003+2011+2019	23.blkSEL.T4	base blkSEL 2003+2011+2019		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/4_23.blkSEL.T4
Item 5.11	blkretT3 blkSEL 2003	23.blkret.T3.blkSEL.T1	blkretT3 blkSEL 2003		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/5_23.blkret.T3.blkSEL.T1
Item 5.11	blkretT3 blkSEL 2011	23.blkret.T3.blkSEL.T2	blkretT3 blkSEL 2011		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/6_23.blkret.T3.blkSEL.T2
Item 5.11	blkretT3 blkSEL 2003+2011	23.blkret.T3.blkSEL.T3	blkretT3 blkSEL 2003+2011		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/7_23.blkret.T3.blkSEL.T3
Item 5.11	blkretT3 blkSEL 2003+2011+2019	23.blkret.T3.blkSEL.T4	blkretT3 blkSEL 2003+2011+2019		model/Sensitivity_Anal/5.11_Selectivity_Sensitivity/8_23.blkret.T3.blkSEL.T4
Item 5.12	Dirichlet Multinomial Length Comps	23.dmn	DMN length comps		model/Sensitivity_Anal/5.12_Dirichlet_Multinomial/1_23.dmn