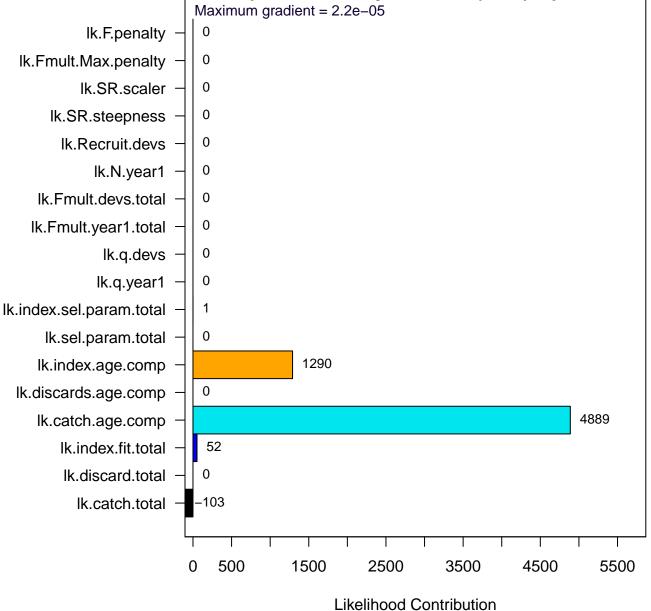File = Run9.dat

ASAP3 run on Thursday, 06 Jul 2023 at 15:30:06

\Users\Kiersten.Curti\Desktop\Work\Mackerel\2023.Management.Track\Run9
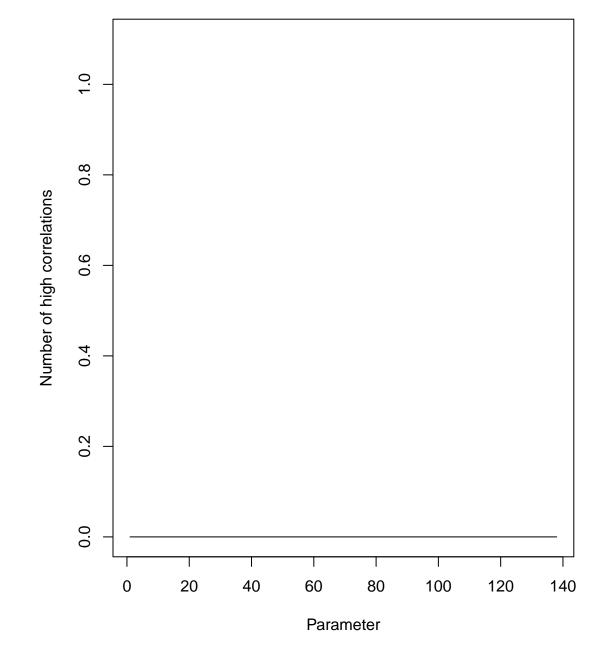
ASAPplots version = 0.2.18
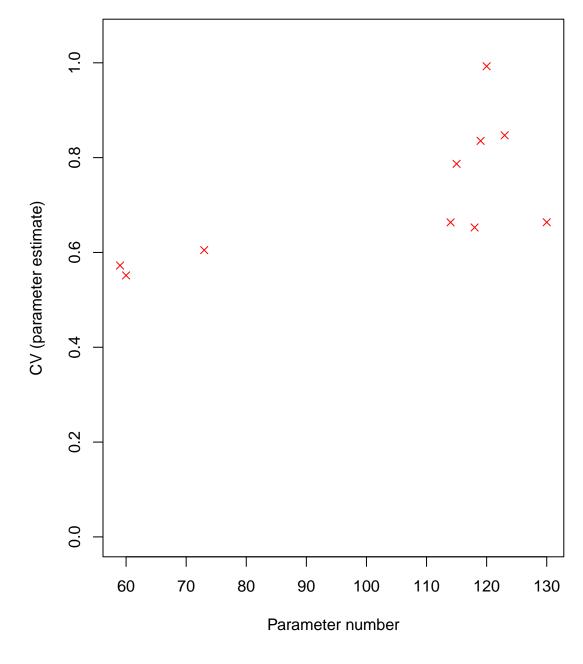
npar = 138, maximum gradient = 2.20575e−005

Components of Obj. Function (6128), npar=138

Maximum gradient = 2.2e−05

Component	Value
lk.F.penalty	0
lk.Fmult.Max.penalty	0
lk.SR.scaler	0
lk.SR.steepness	0
lk.Recruit.devs	0
lk.N.year1	0
lk.Fmult.devs.total	0
lk.Fmult.year1.total	0
lk.q.devs	0
lk.q.year1	0
lk.index.sel.param.total	1
lk.sel.param.total	0
lk.index.age.comp	1290
lk.discards.age.comp	0
lk.catch.age.comp	4889
lk.index.fit.total	52
lk.discard.total	0
lk.catch.total	−103

Likelihood Contribution

Model: Run9   Thursday, 06 Jul 2023 at 15:30:06

Root Mean Square Error computed from Standardized Residuals
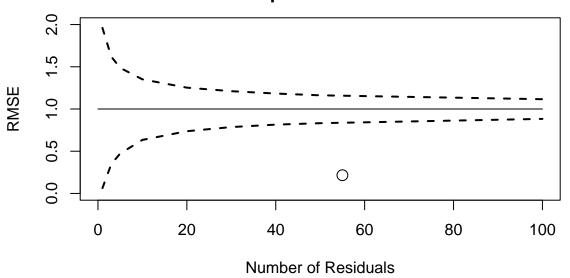
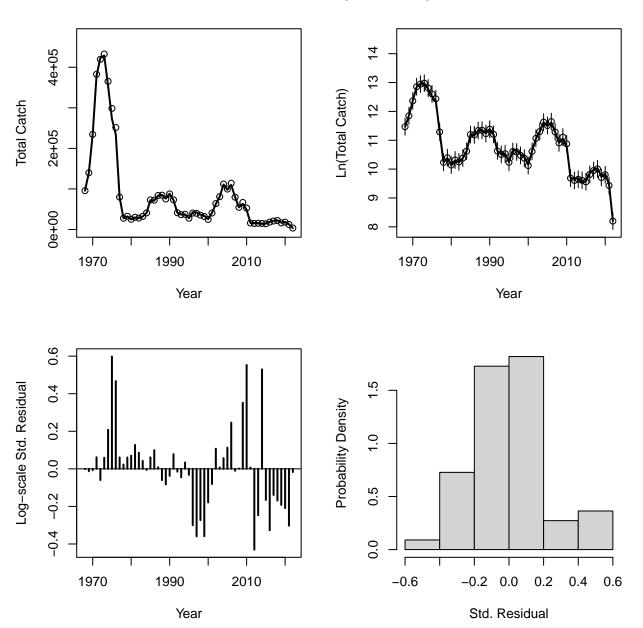| Component	# resids	RMSE
catch.tot	55	0.216
discard.tot	0	0
ind01	24	1.08
ind02	13	1.29
ind03	33	1.75
ind.total	70	1.47
N.year1	0	0
Fmult.year1	0	0
Fmult.devs.total	0	0
recruit.devs	0	0
fleet.sel.params	0	0
index.sel.params	2	0.572
q.year1	0	0
q.devs	0	0
SR.steepness	0	0
SR.scaler	0	0

Root Mean Square Error for Indices

RMSE

Number of Residuals

index.sel.params
ind.total
Spring Alb 3+
Spring Big 3+
Combined SSB

Root Mean Square Error for Catch

RMSE

Number of Residuals

o   catch.tot
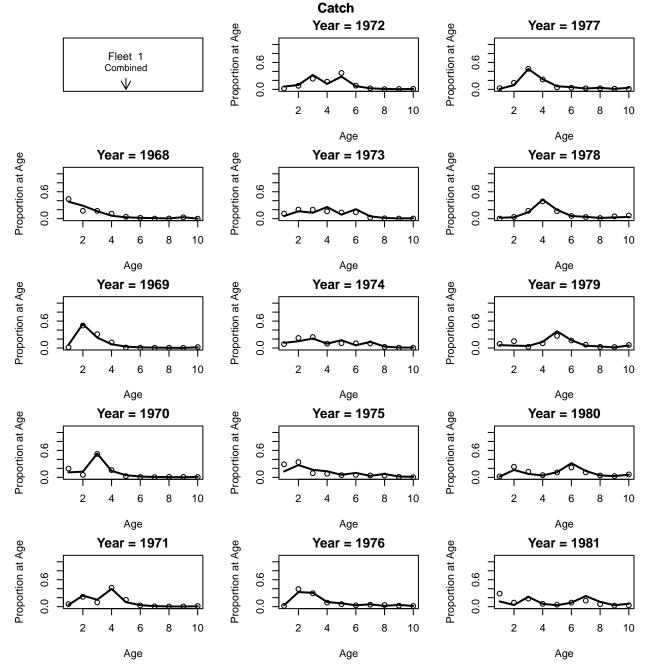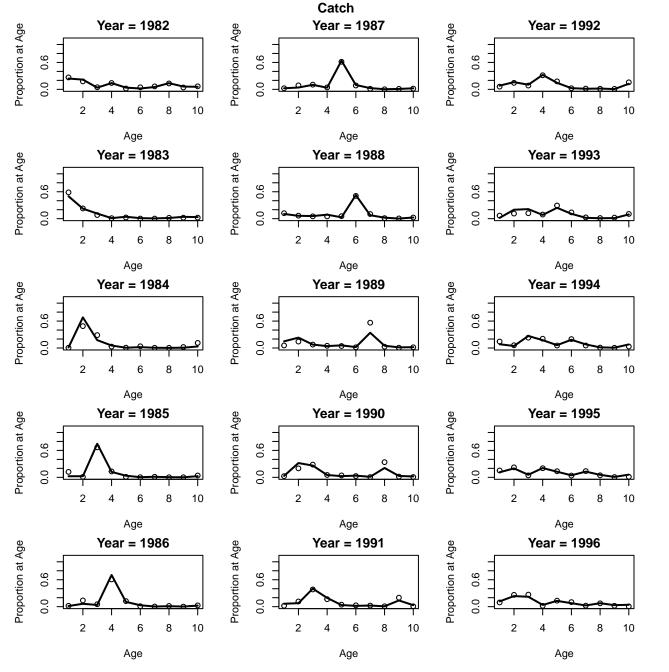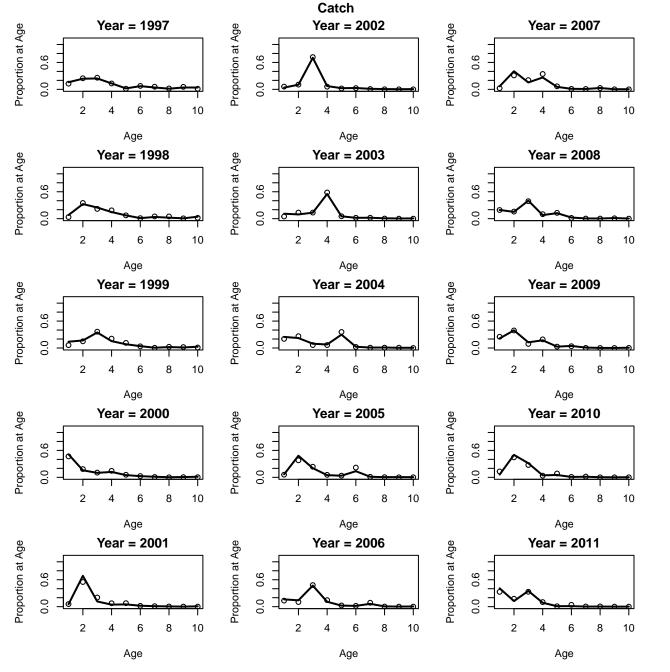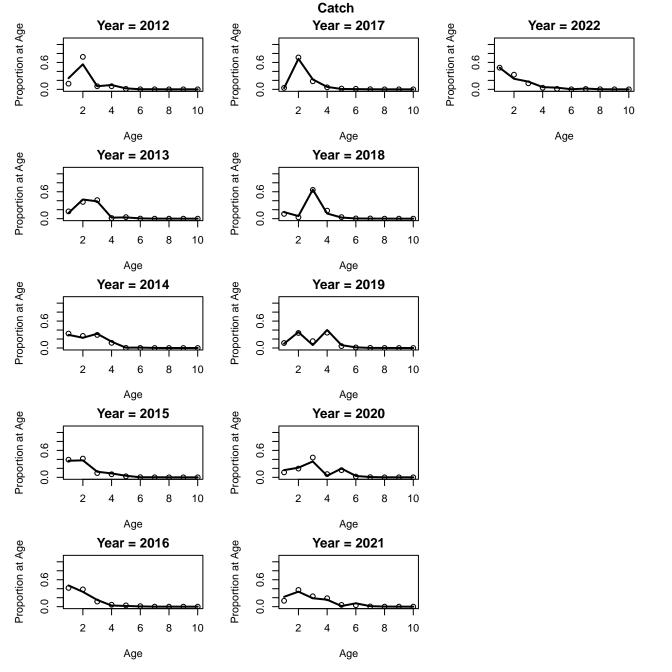
Fleet 1 Catch (Combined)

Catch

Catch

Catch

Catch
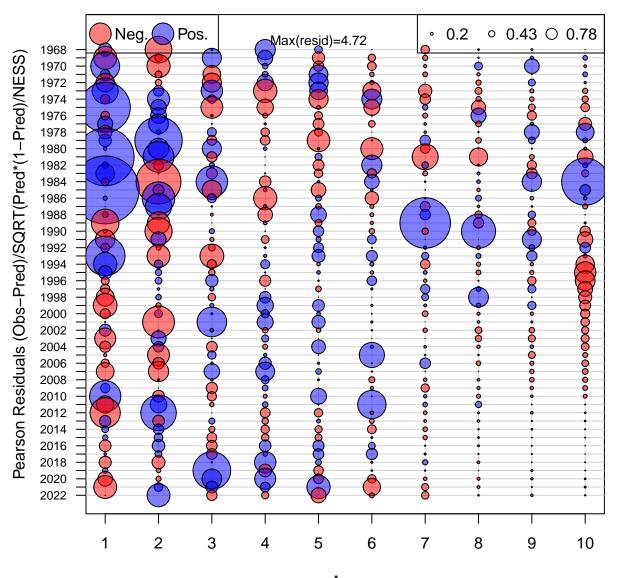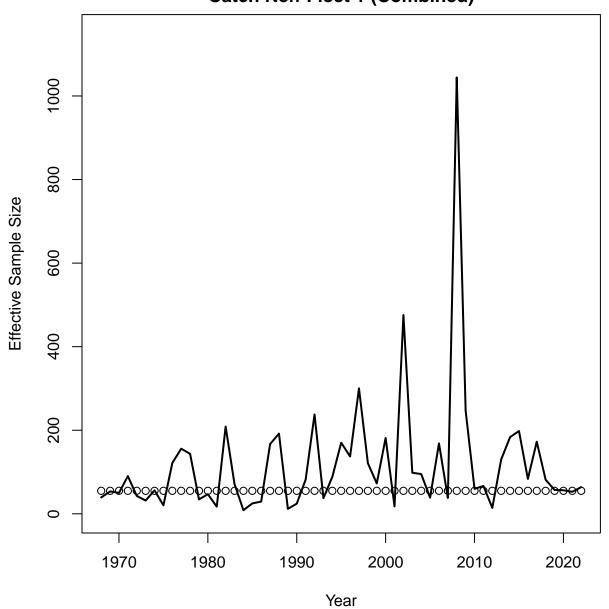
Age Comp Residuals for Catch by Fleet 1 (Combined)

Pearson Residuals (Obs−Pred)/SQRT(Pred*(1−Pred)/NESS)

Neg. Pos.

Max(resid)=4.72

0.2 0.43 0.78
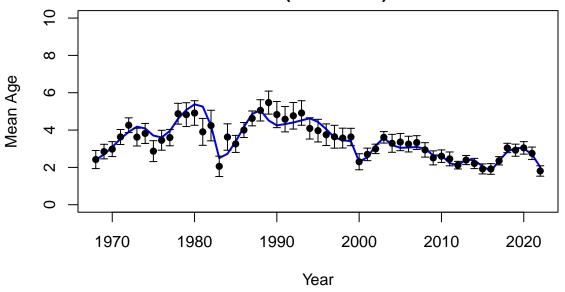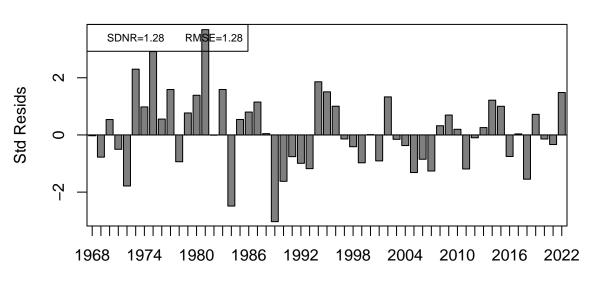
Age

Mean resid = 0   SD(resid) = 0.87

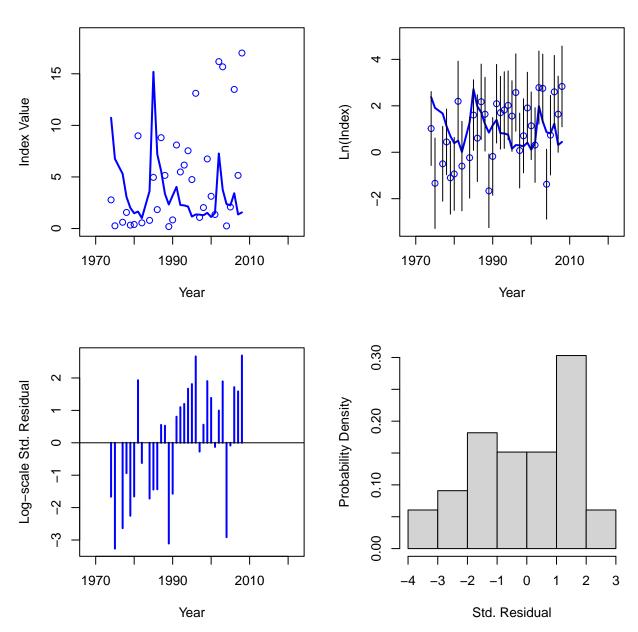**Catch Neff Fleet 1 (Combined)**

Catch Fleet 1 (Combined) ESS = 55
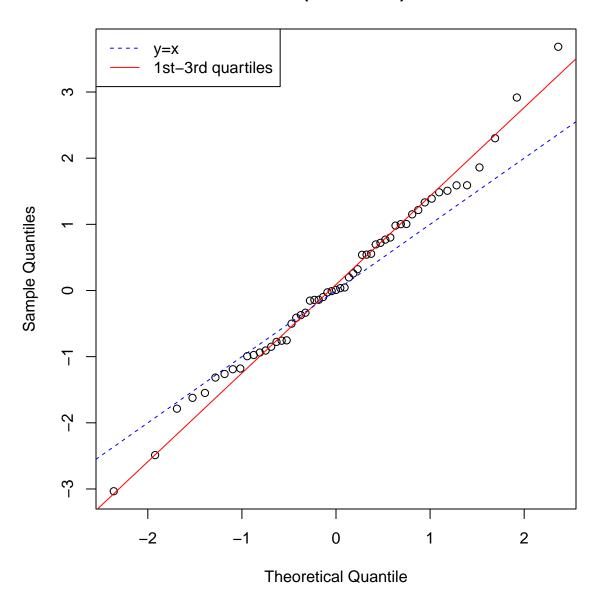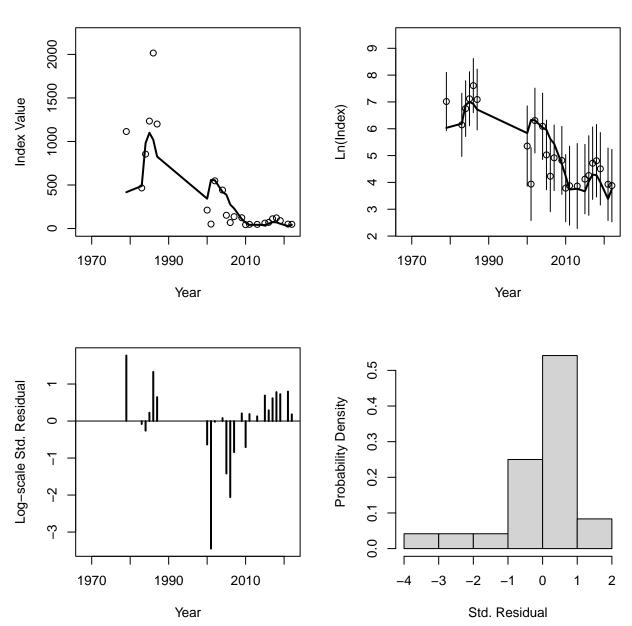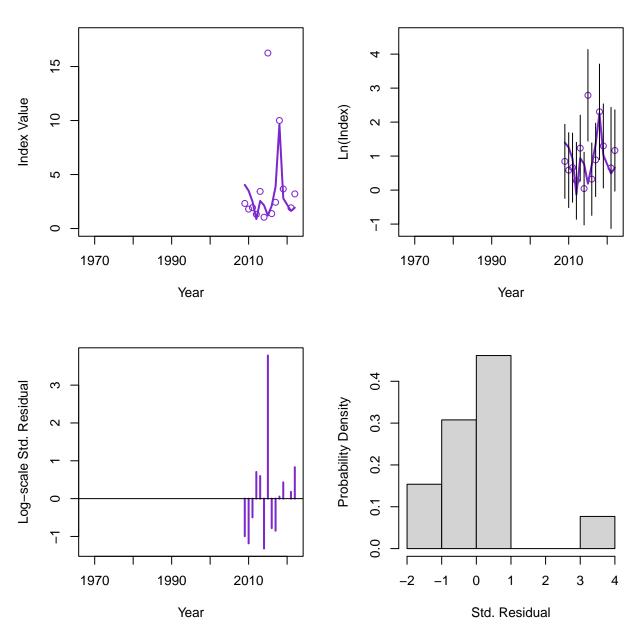
Catch Fleet 1 (Combined) ESS = 55

Index 1 (Combined SSB)
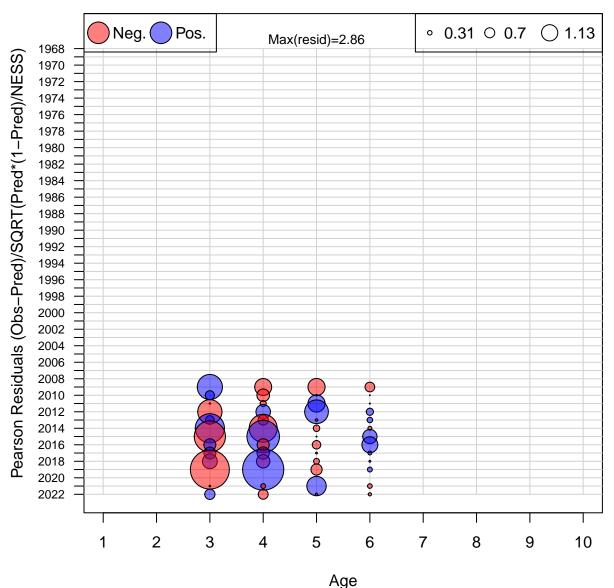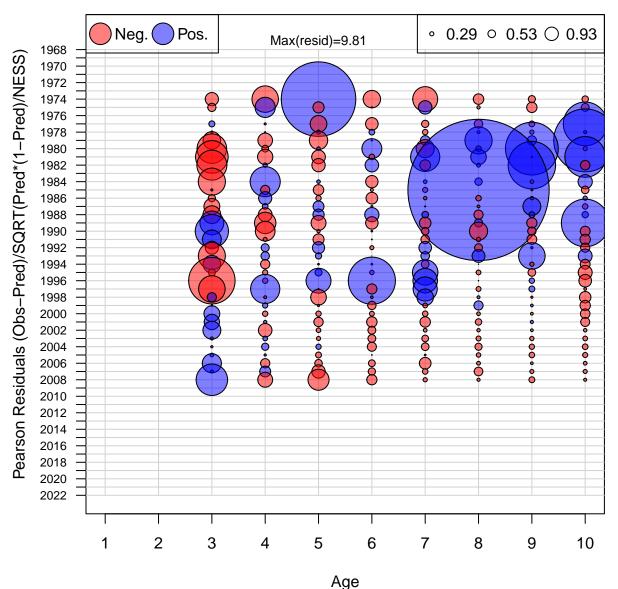
Index 2 (Spring Big 3+)

Index 3 (Spring Alb 3+)
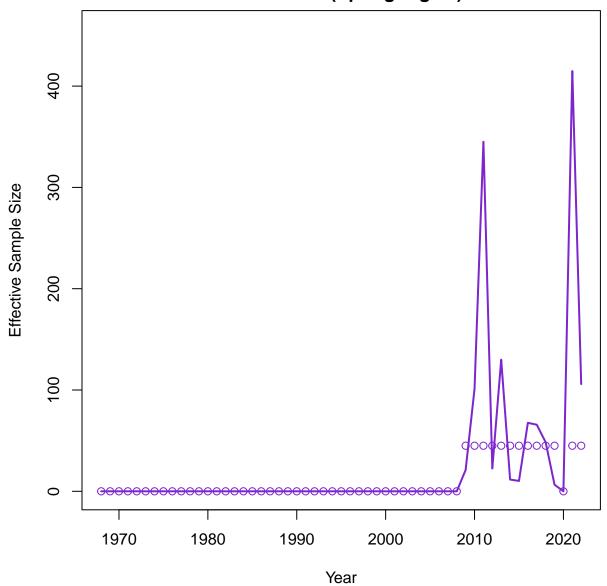
Age Comp Residuals for Index 2 (Spring Big 3+)
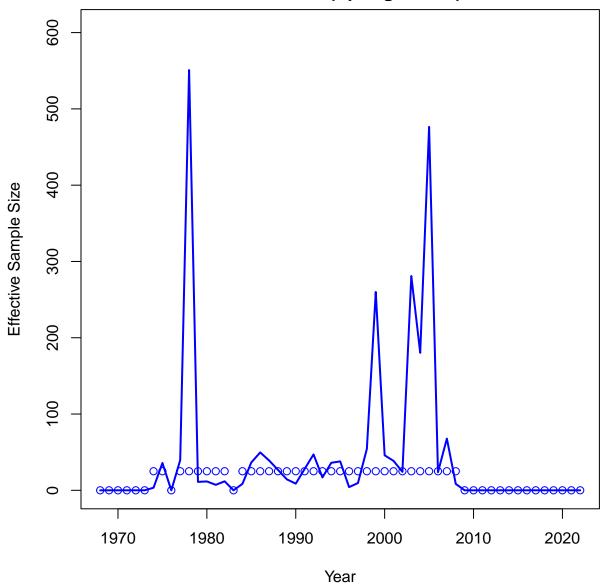
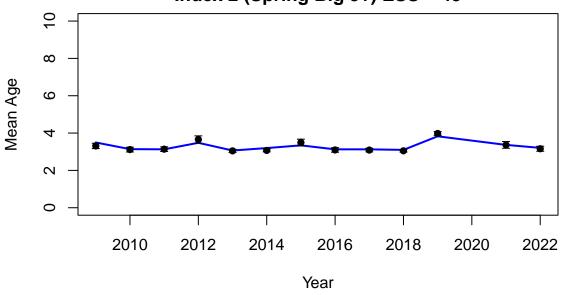Age Comp Residuals for Index 3 (Spring Alb 3+)
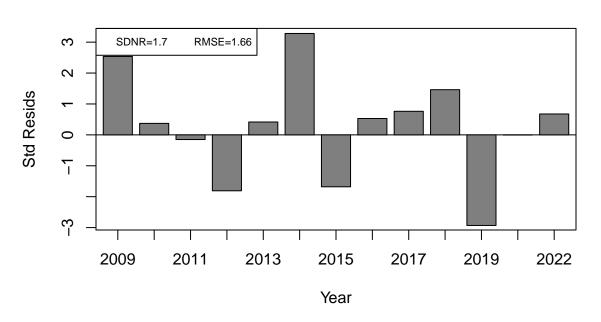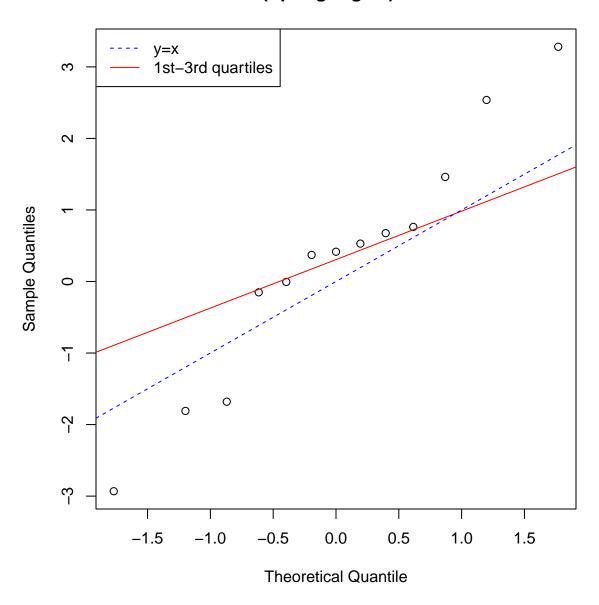
Index Neff 2 (Spring Big 3+)
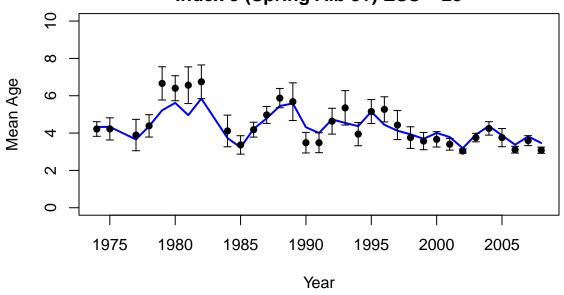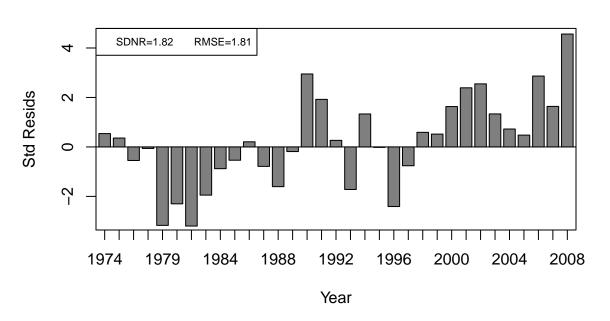
Index Neff 3 (Spring Alb 3+)

Index 2 (Spring Big 3+) ESS = 45

Index 2 (Spring Big 3+) ESS = 45

Index 3 (Spring Alb 3+) ESS = 25

SDNR=1.82   RMSE=1.81

Index 3 (Spring Alb 3+) ESS = 25