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ASAP3 run on Wednesday, 15 Nov 2017 at 09:34:09

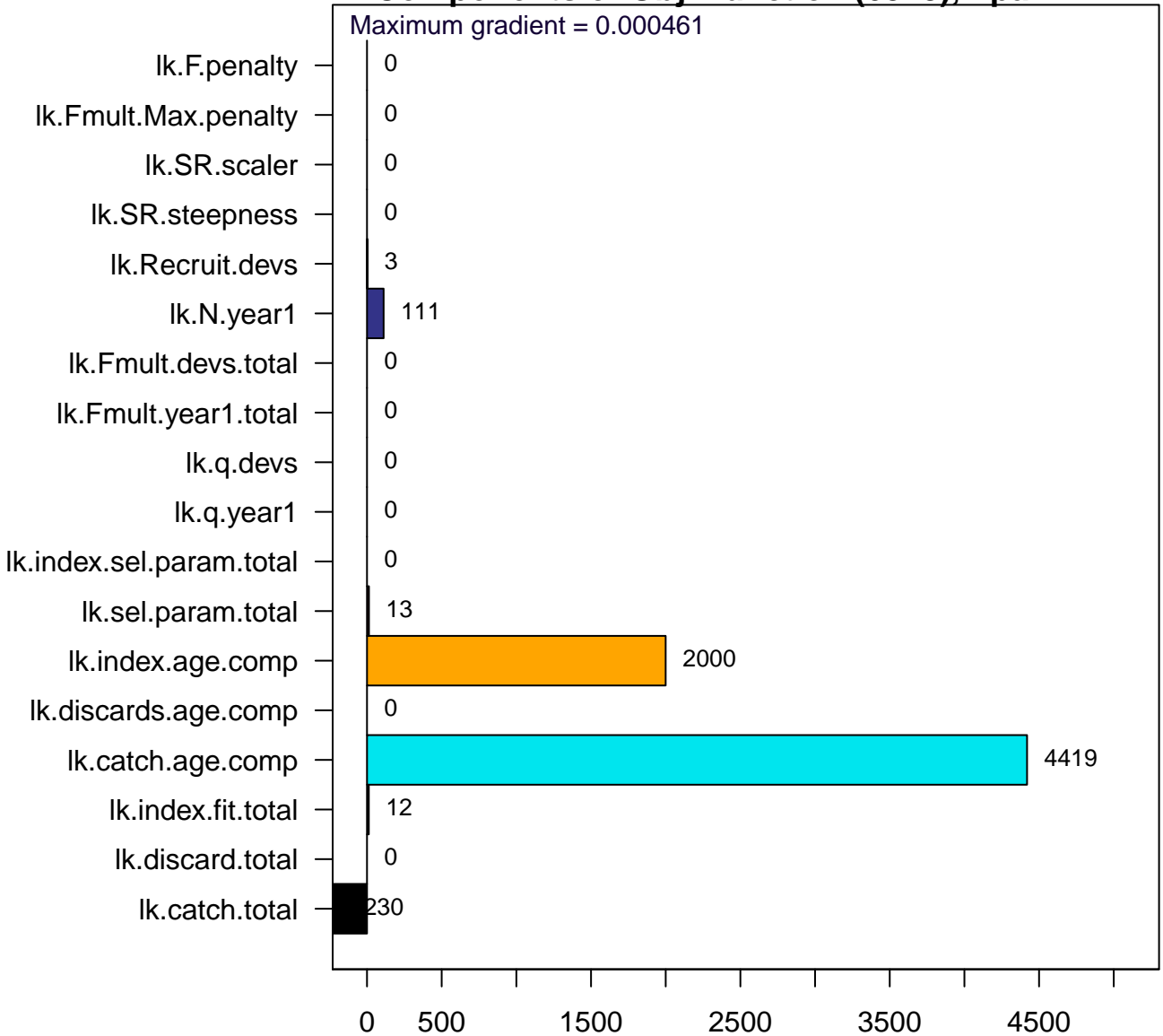
Methods WG\2017MeetingWoodsHoleNov13-17\Project1-RetroStateSpaceTra

ASAPplots version = 0.1.10

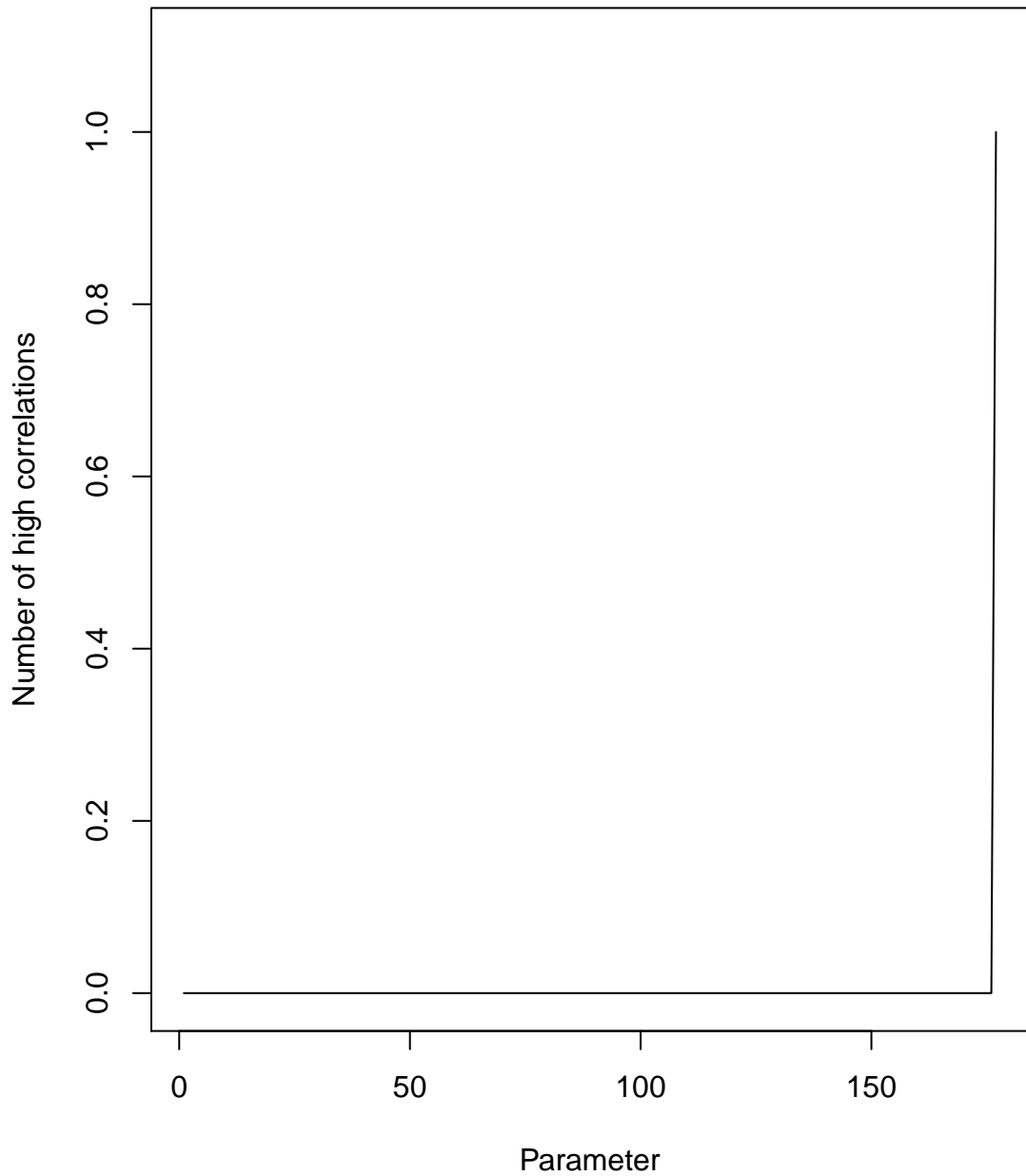
npar = 177, maximum gradient = 0.000461447

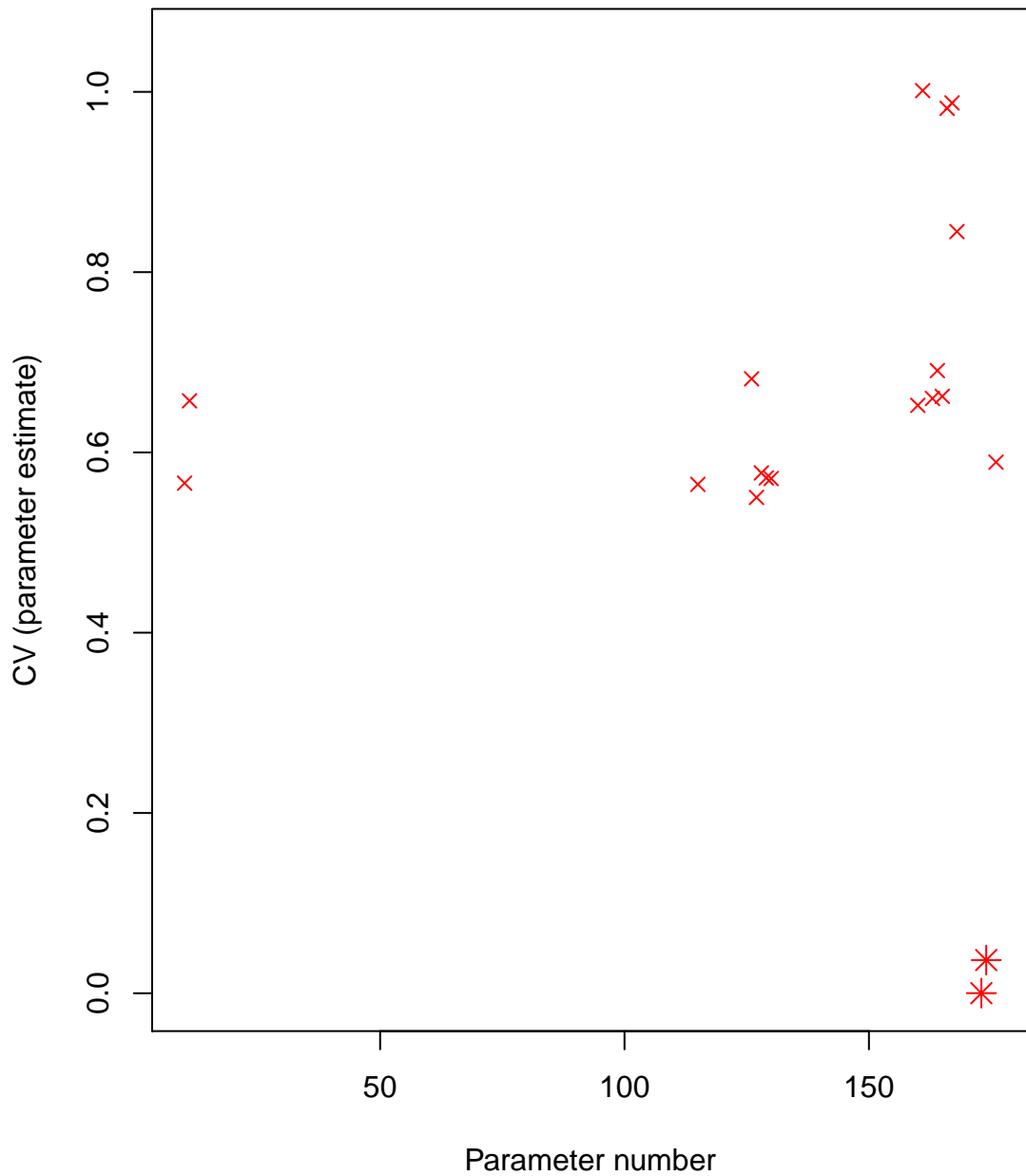
Components of Obj. Function (6328), npar=177

Maximum gradient = 0.000461



Likelihood Contribution

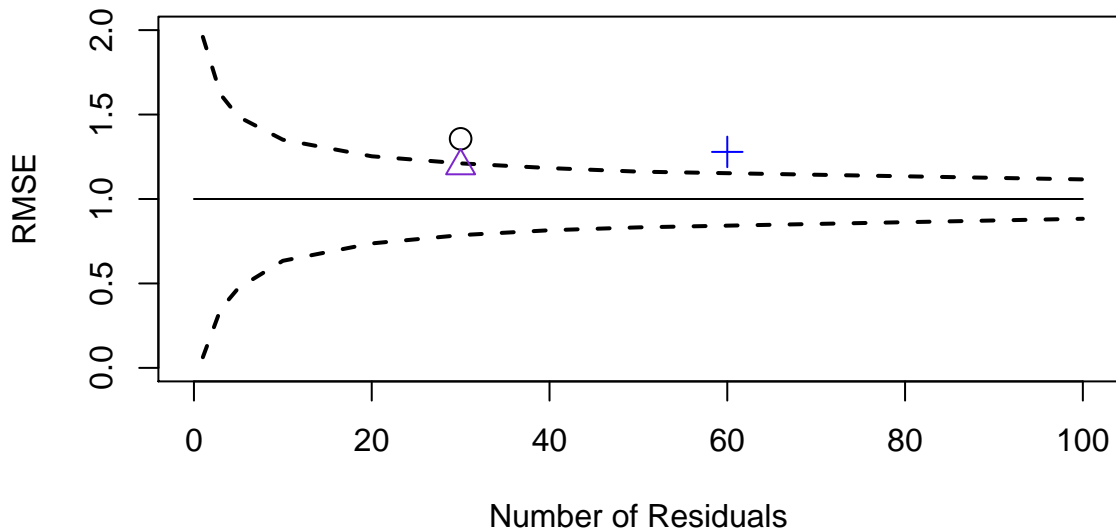




Root Mean Square Error computed from Standardized Residuals

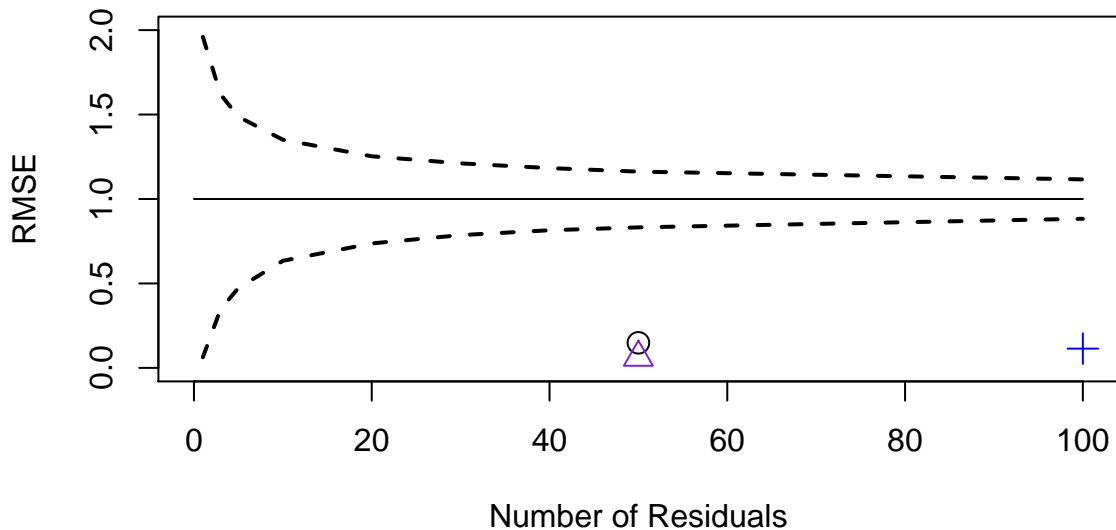
Component	# resids	RMSE
catch.fleet1	50	0.149
catch.fleet2	50	0.0623
catch.tot	100	0.114
discard.fleet1	0	0
discard.fleet2	0	0
discard.tot	0	0
ind01	30	1.36
ind02	30	1.2
ind.total	60	1.28
N.year1	7	0.546
Fmult.year1	0	0
Fmult.devs.fleet1	0	0
Fmult.devs.fleet2	0	0
Fmult.devs.total	0	0
recruit.devs	50	0.695
fleet.sel.params	8	1.91
index.sel.params	0	0
q.year1	0	0
q.devs	0	0
SR.steepness	0	0
SR.scaler	0	0

Root Mean Square Error for Indices



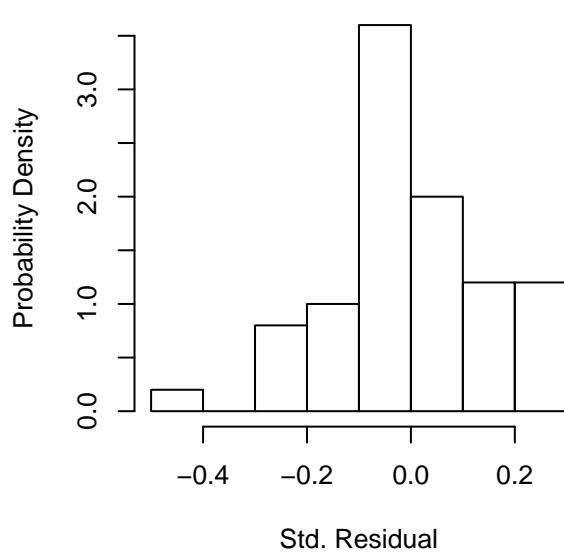
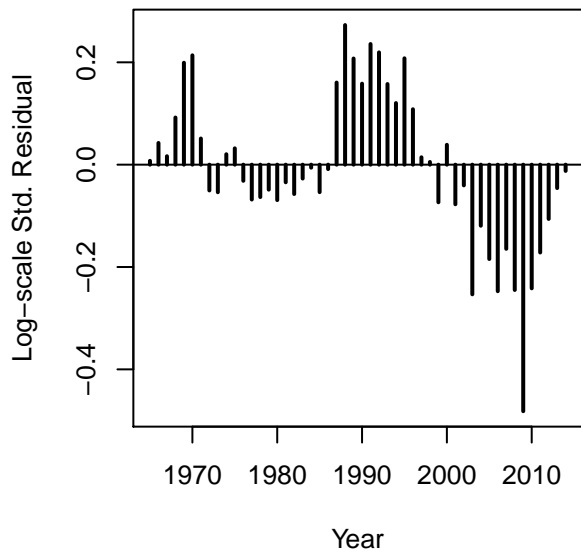
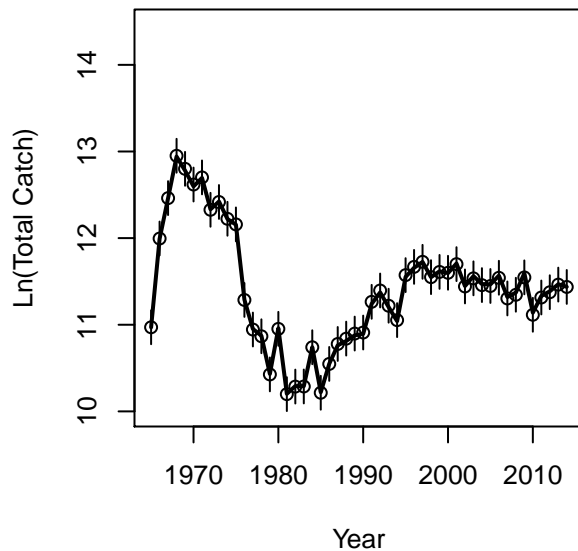
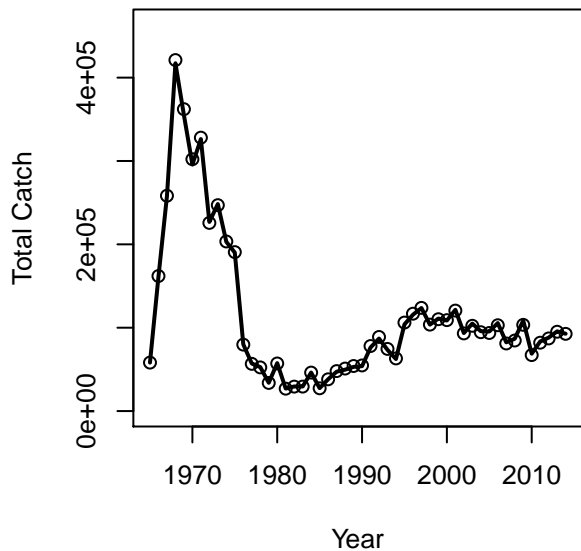
+ ind total
△ INDEX-2
○ INDEX-1

Root Mean Square Error for Catch

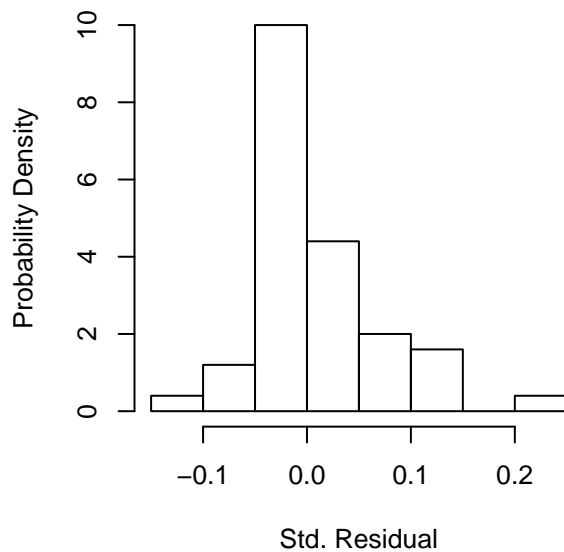
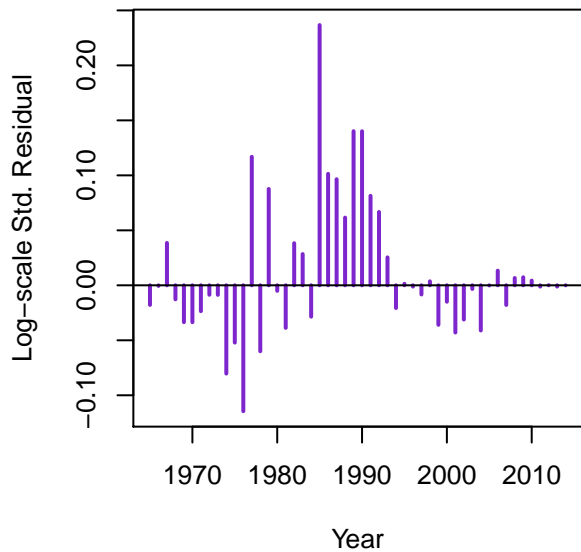
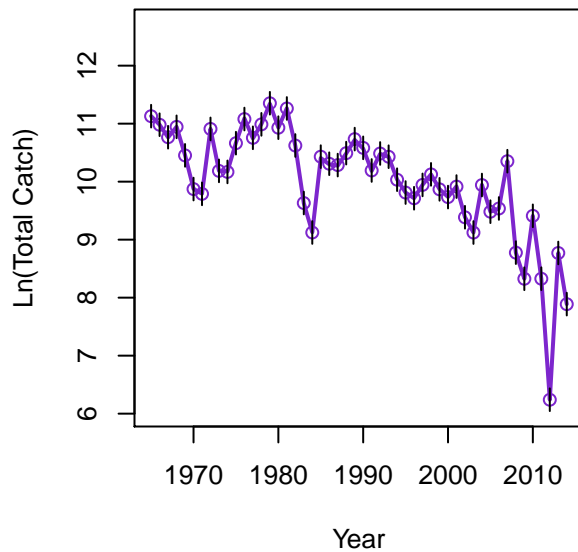
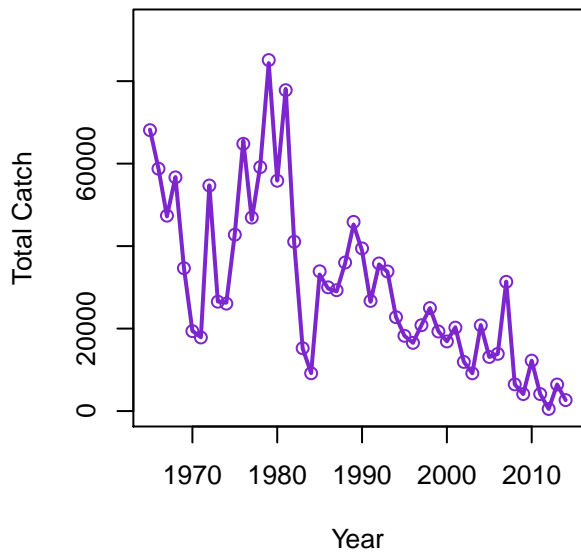


+ catch.tot
△ catch.fleet2
○ catch.fleet1

Fleet 1 Catch (FLEET-1)



Fleet 2 Catch (FLEET-2)

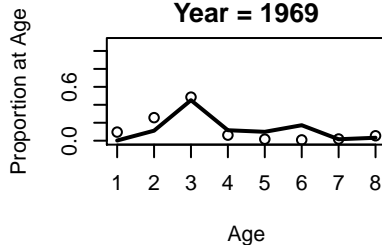


Catch

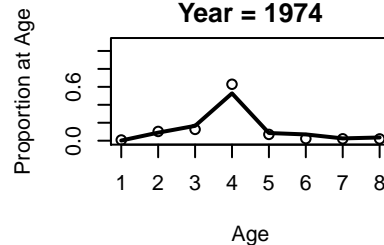
Fleet 1
FLEET-1



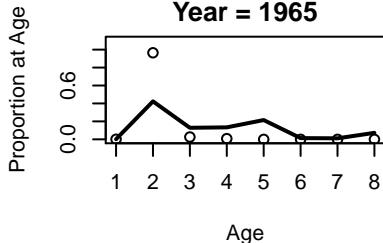
Year = 1969



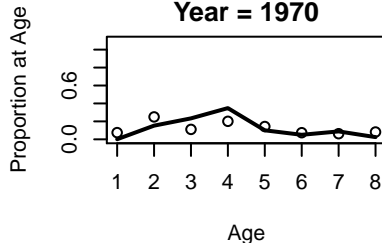
Year = 1974



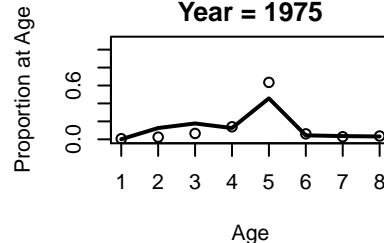
Year = 1965



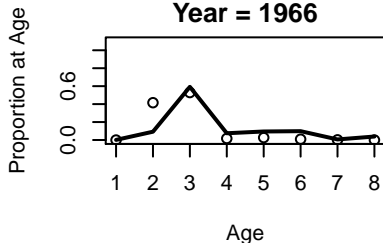
Year = 1970



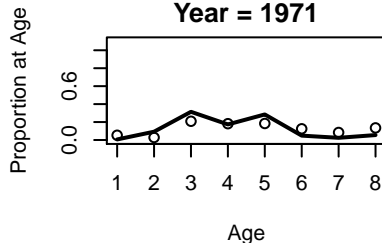
Year = 1975



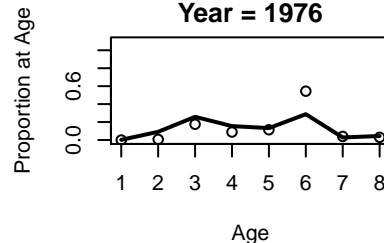
Year = 1966



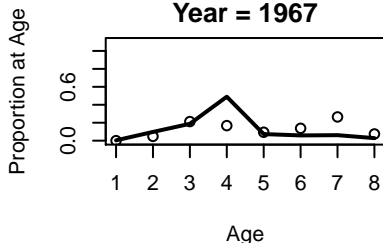
Year = 1971



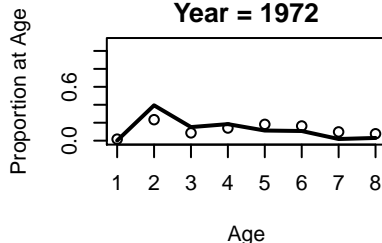
Year = 1976



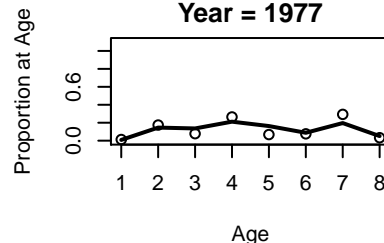
Year = 1967



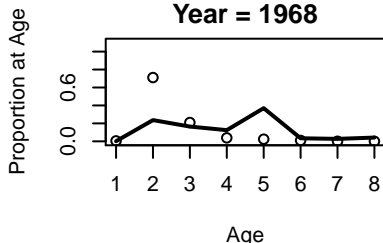
Year = 1972



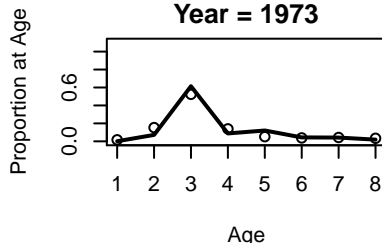
Year = 1977



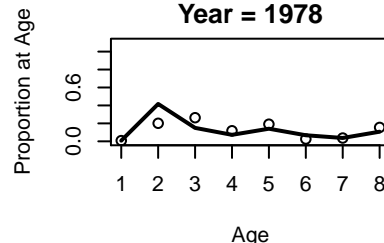
Year = 1968



Year = 1973

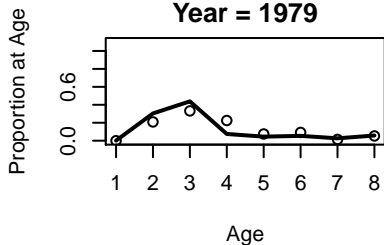


Year = 1978

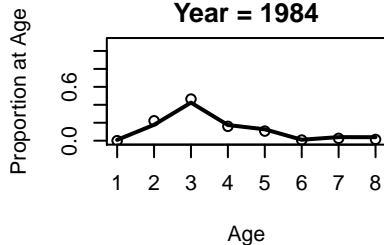


Catch

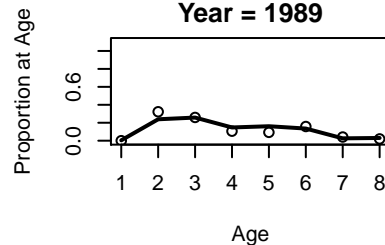
Year = 1979



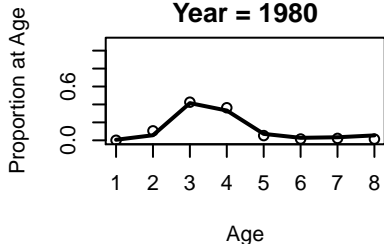
Year = 1984



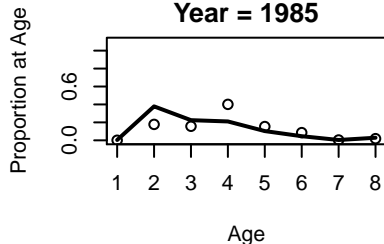
Year = 1989



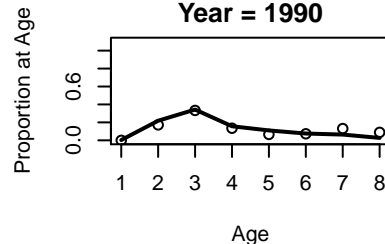
Year = 1980



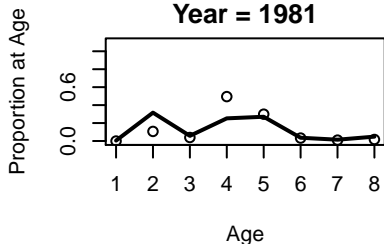
Year = 1985



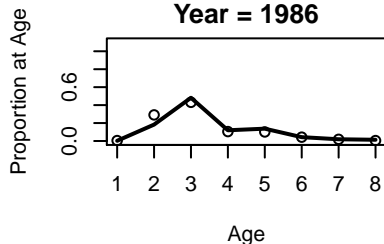
Year = 1990



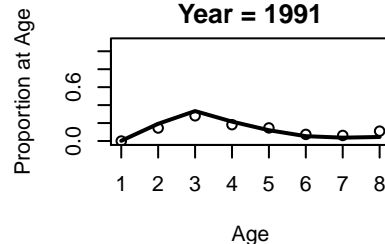
Year = 1981



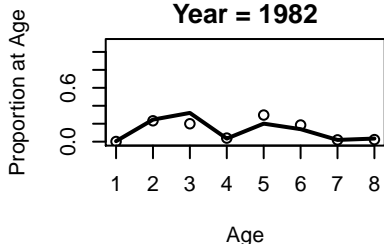
Year = 1986



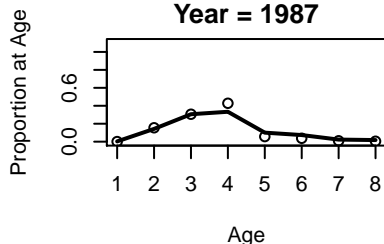
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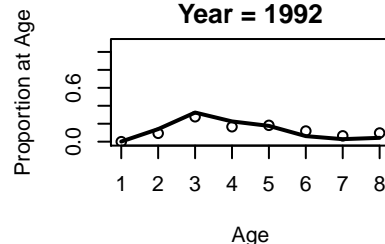
Year = 1982



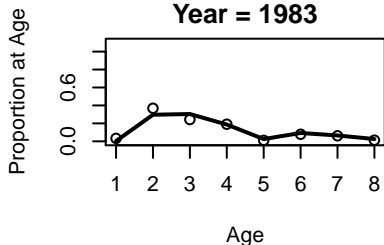
Year = 1987



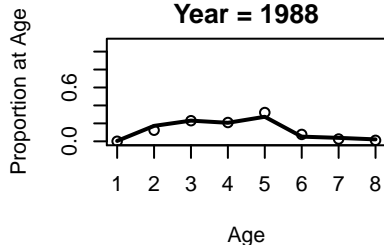
Year = 1992



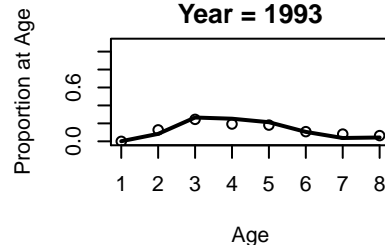
Year = 1983



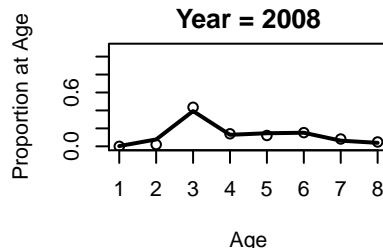
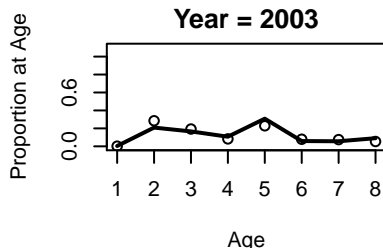
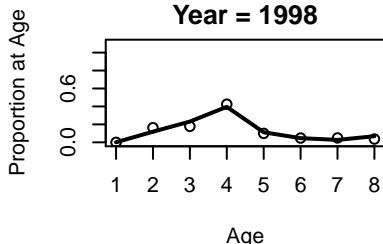
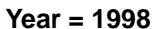
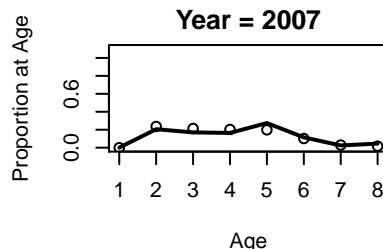
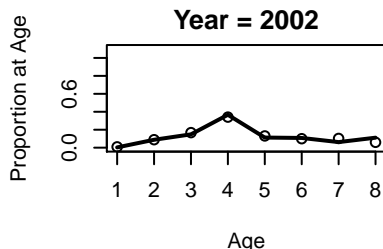
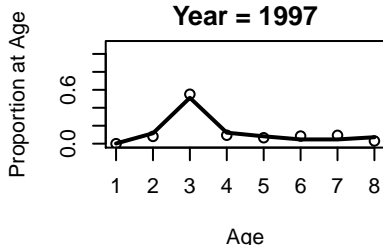
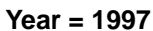
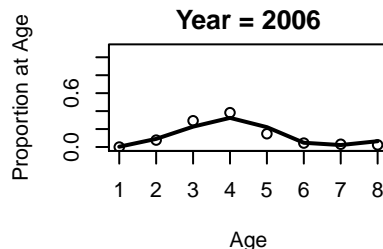
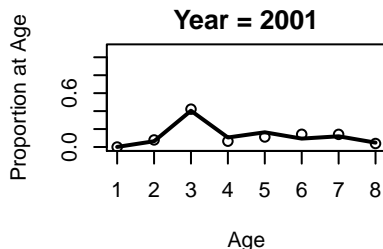
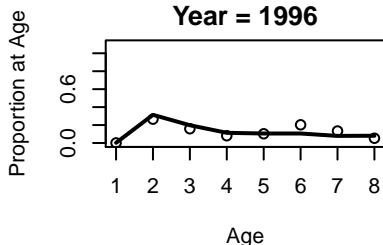
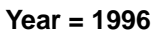
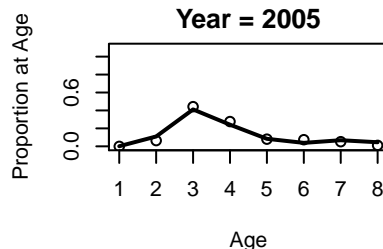
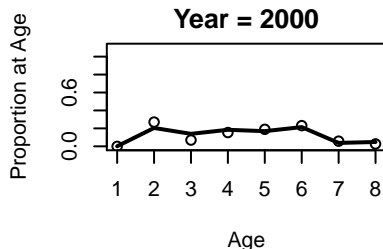
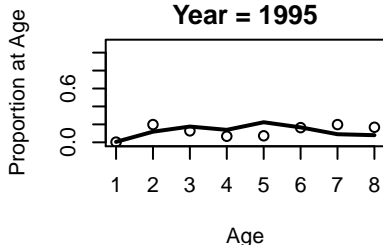
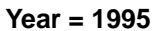
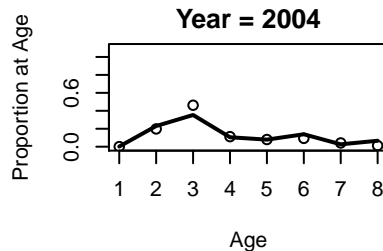
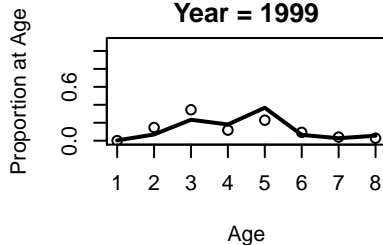
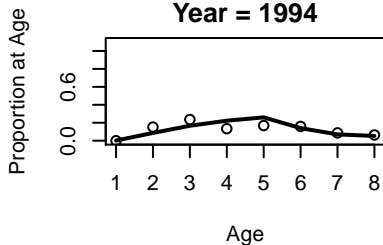
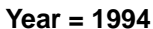
Year = 1988

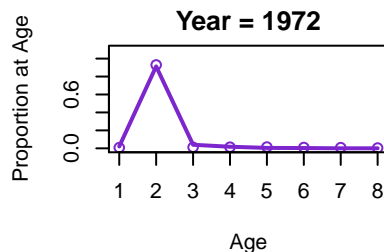
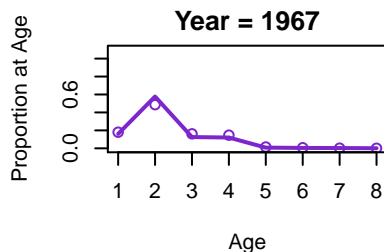
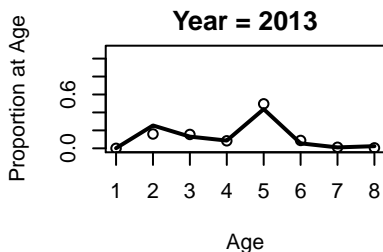
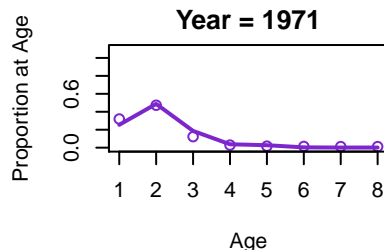
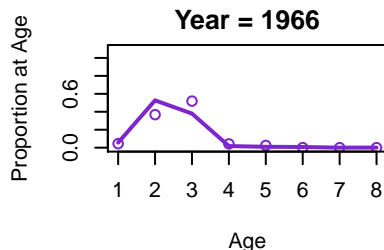
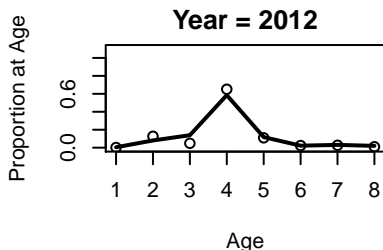
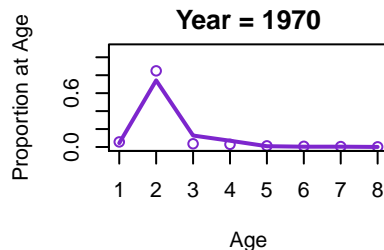
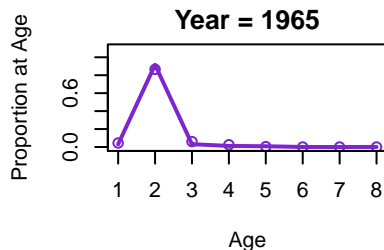
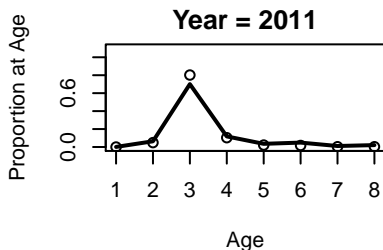
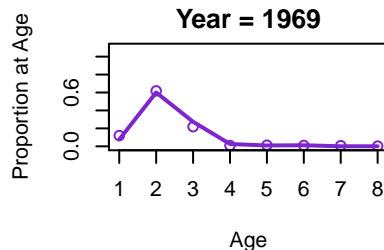
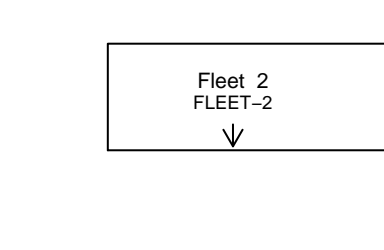
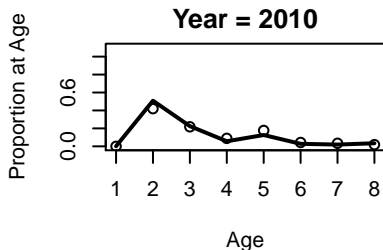
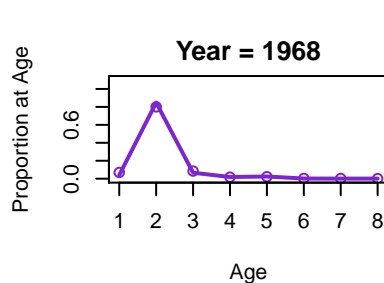
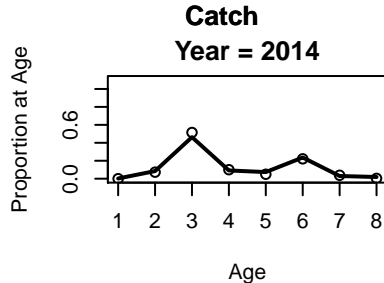
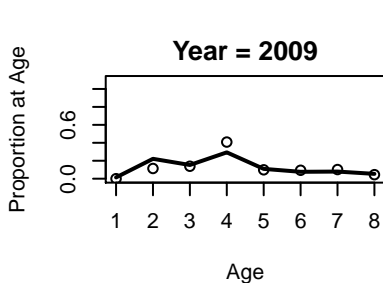


Year = 1993

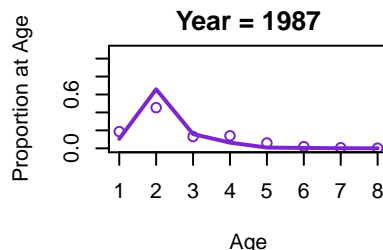
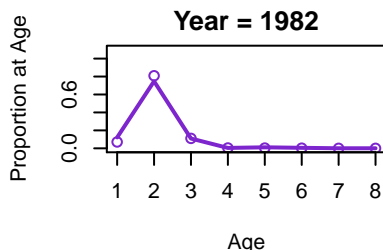
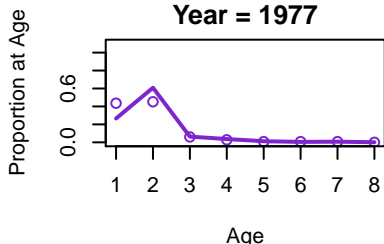
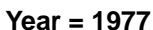
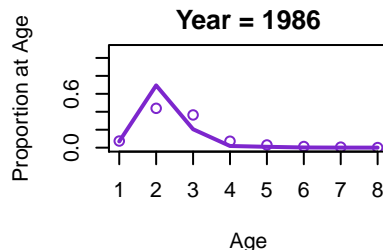
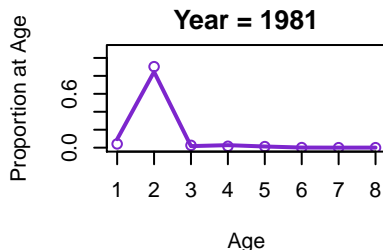
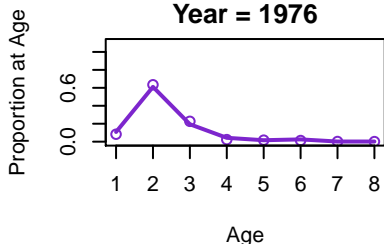
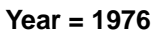
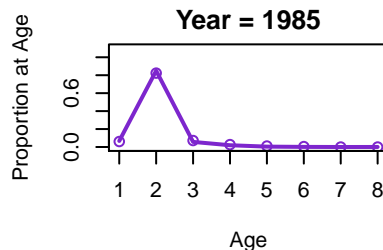
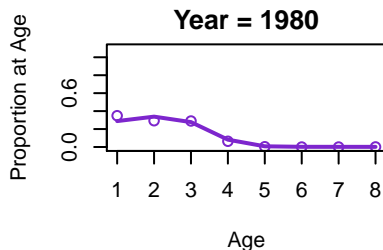
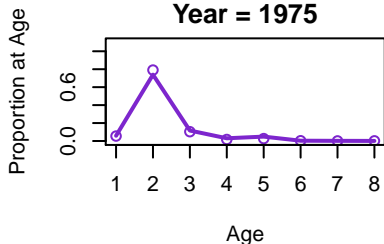
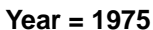
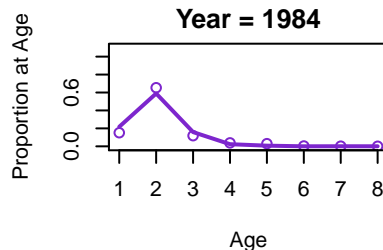
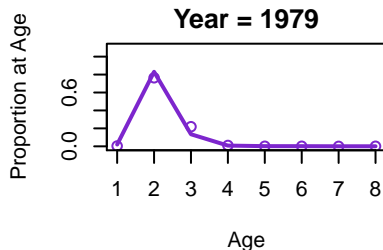
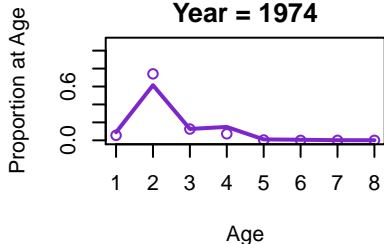
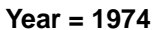
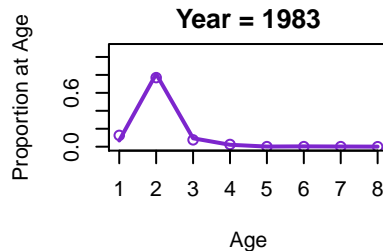
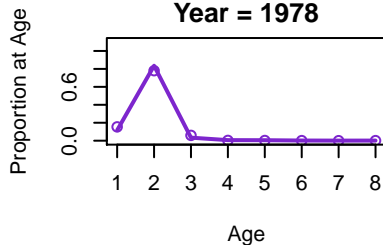
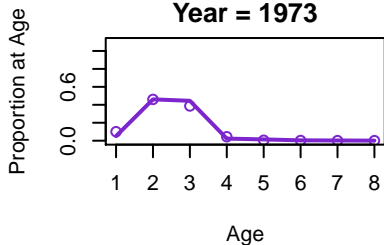
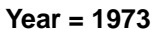


Year = 1999



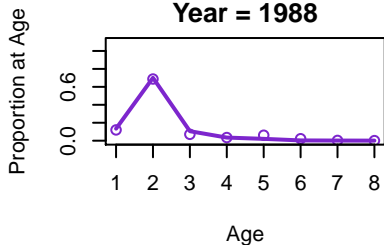


Year = 1978

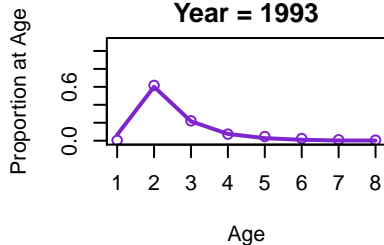


Catch

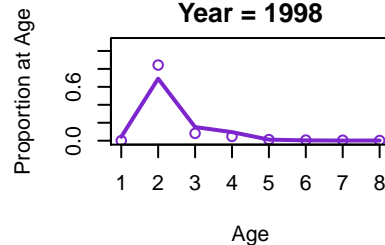
Year = 1988



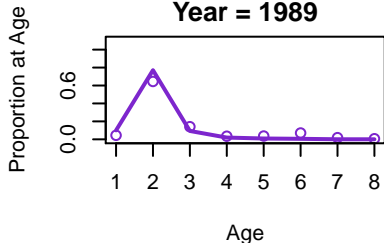
Year = 1993



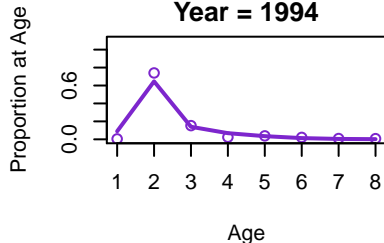
Year = 1998



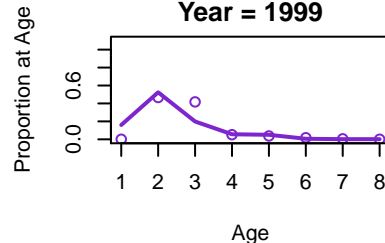
Year = 1989



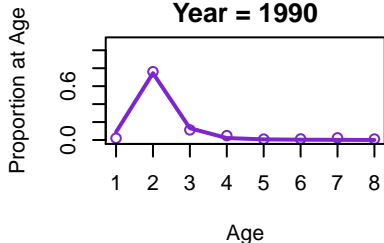
Year = 1994



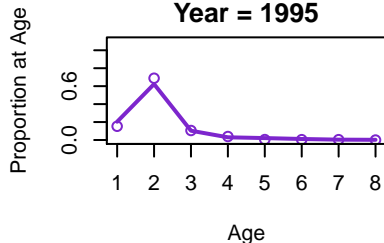
Year = 1999



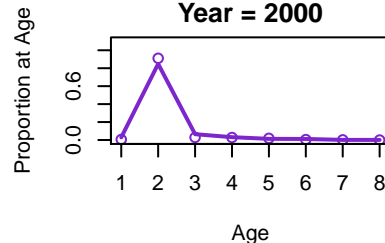
Year = 1990



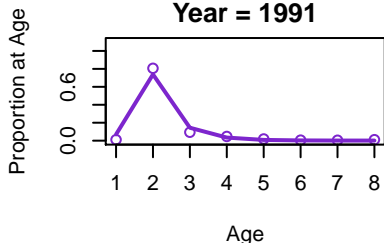
Year = 1995



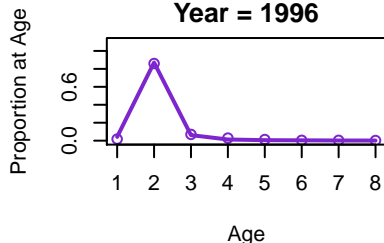
Year = 2000



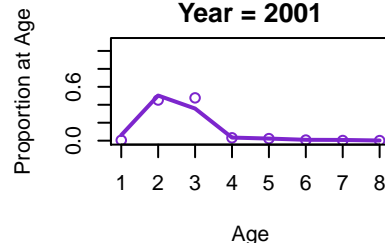
Year = 1991



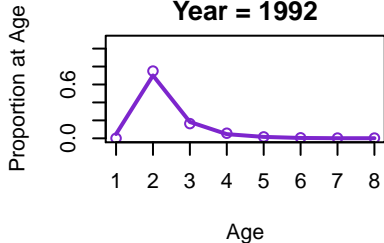
Year = 1996



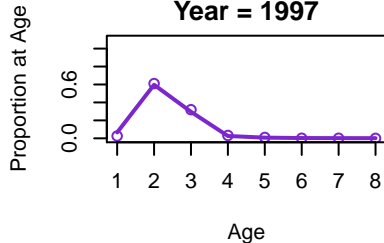
Year = 2001



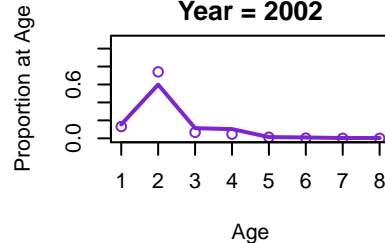
Year = 1992



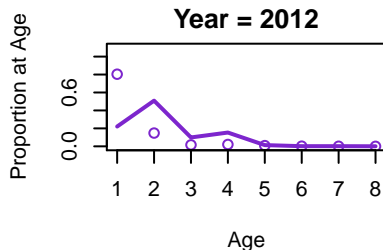
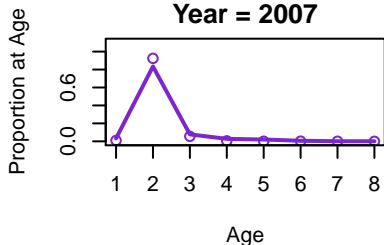
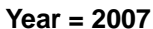
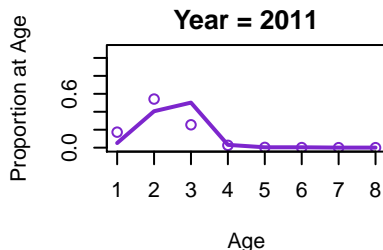
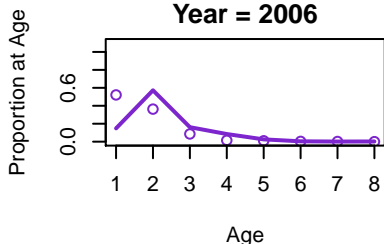
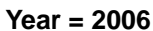
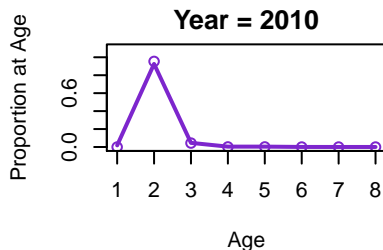
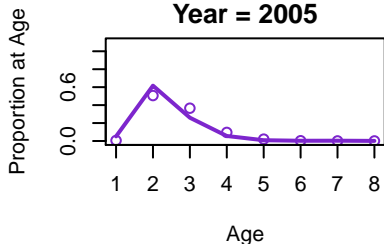
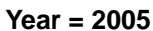
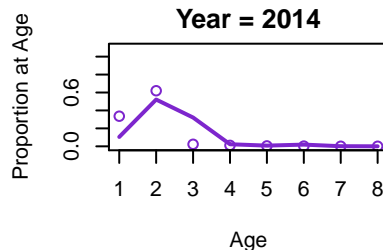
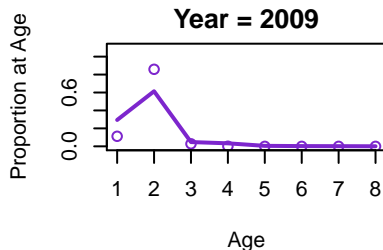
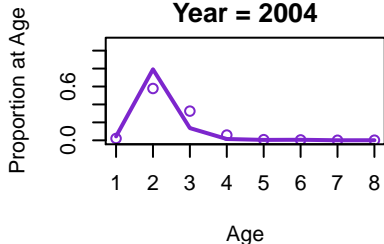
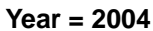
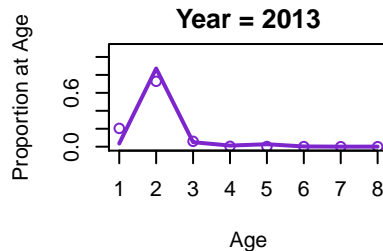
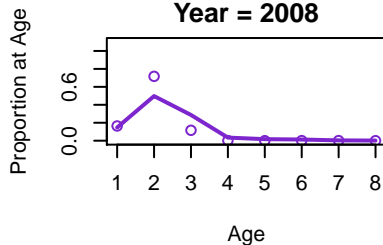
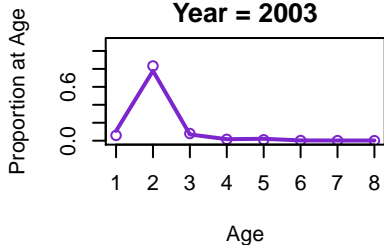
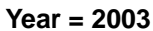
Year = 1997



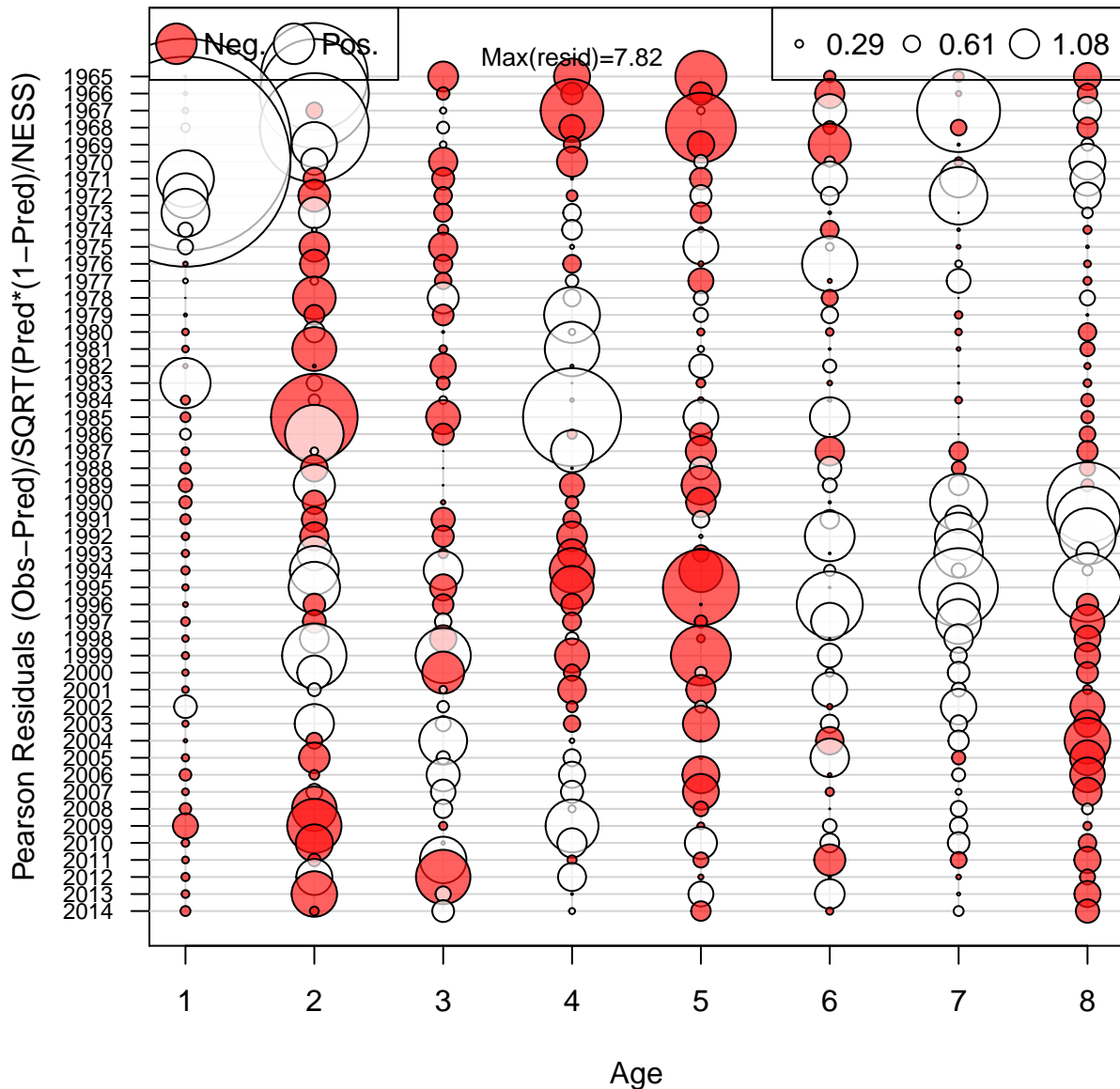
Year = 2002



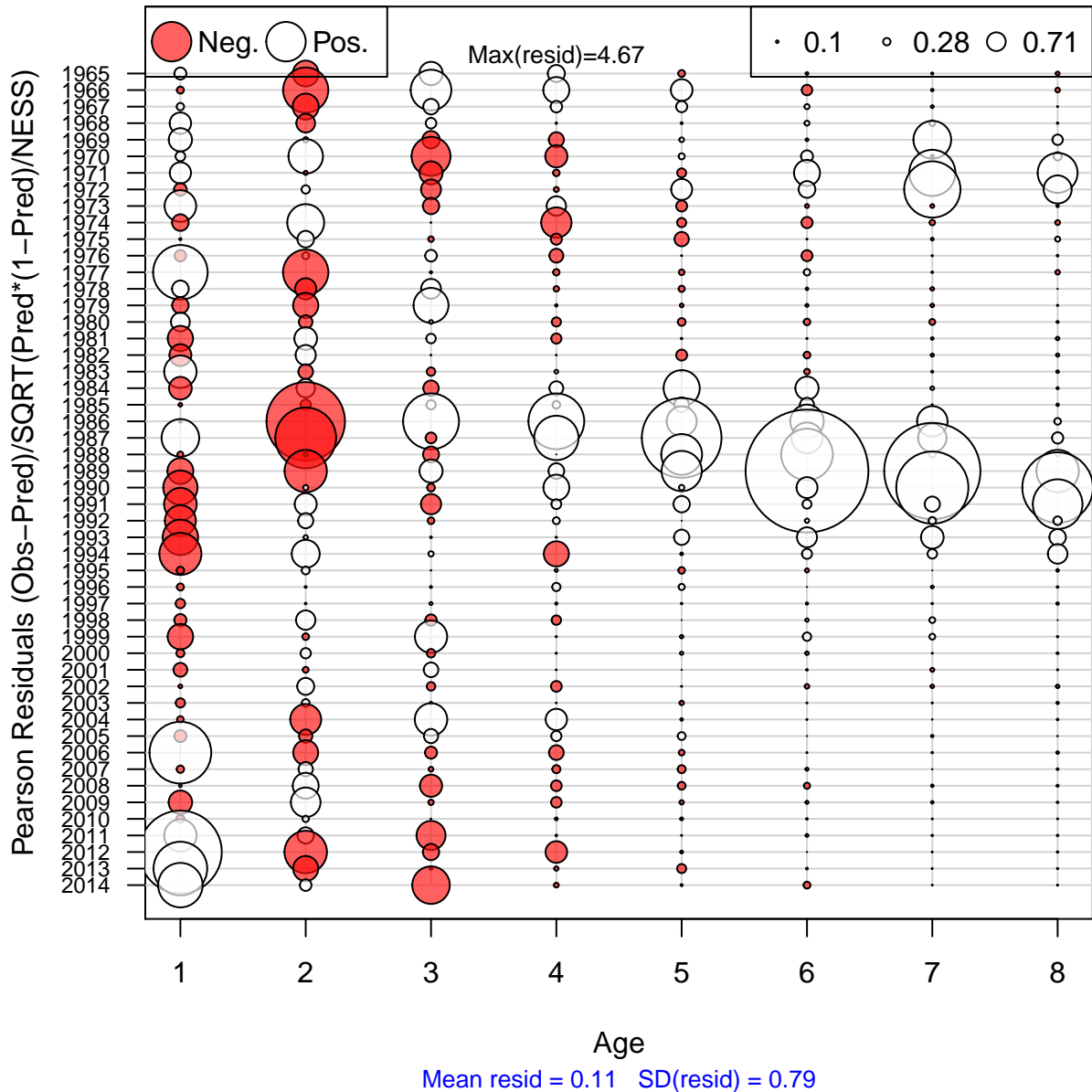
Year = 2008



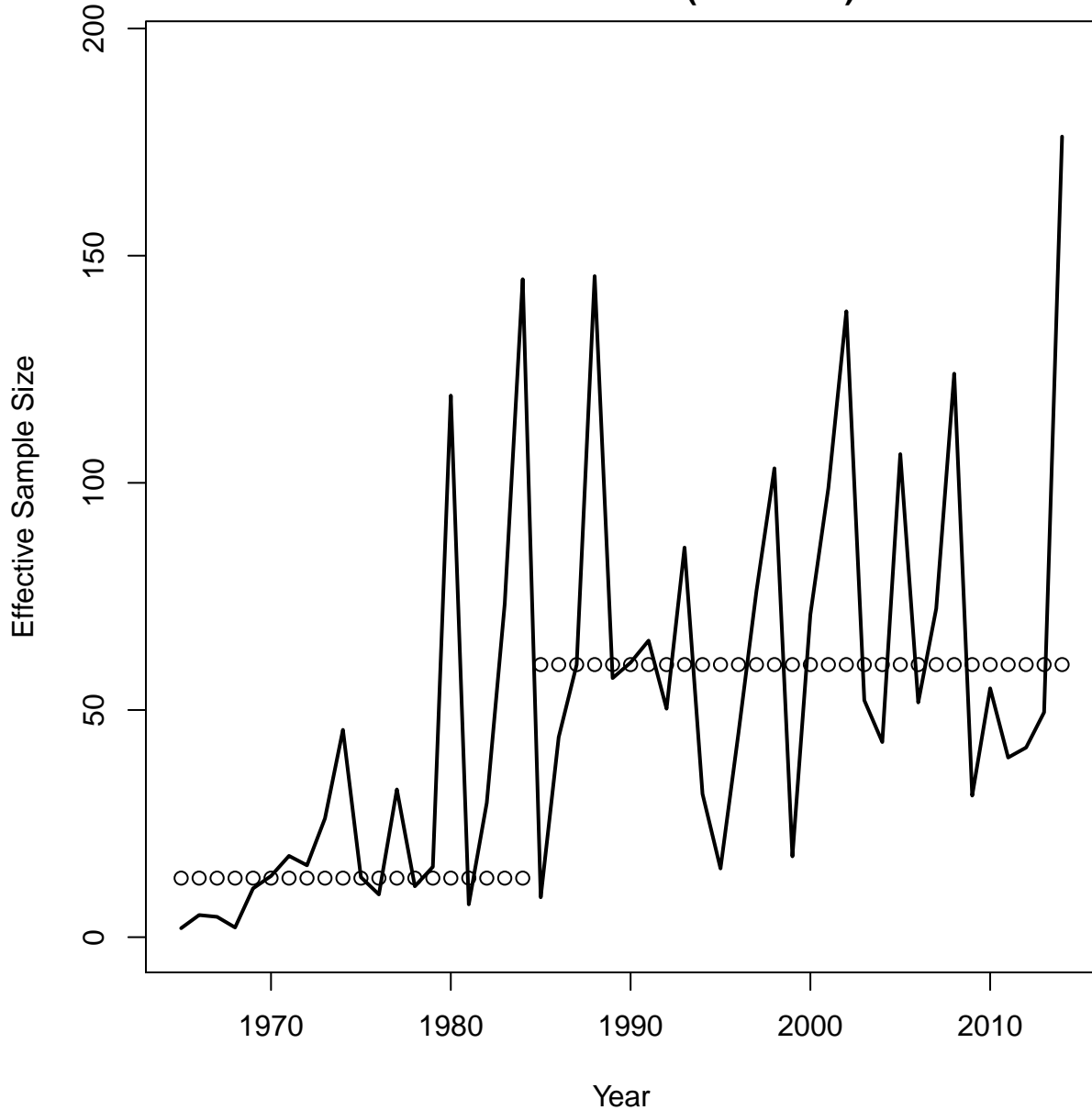
Age Comp Residuals for Catch by Fleet 1 (FLEET-1)



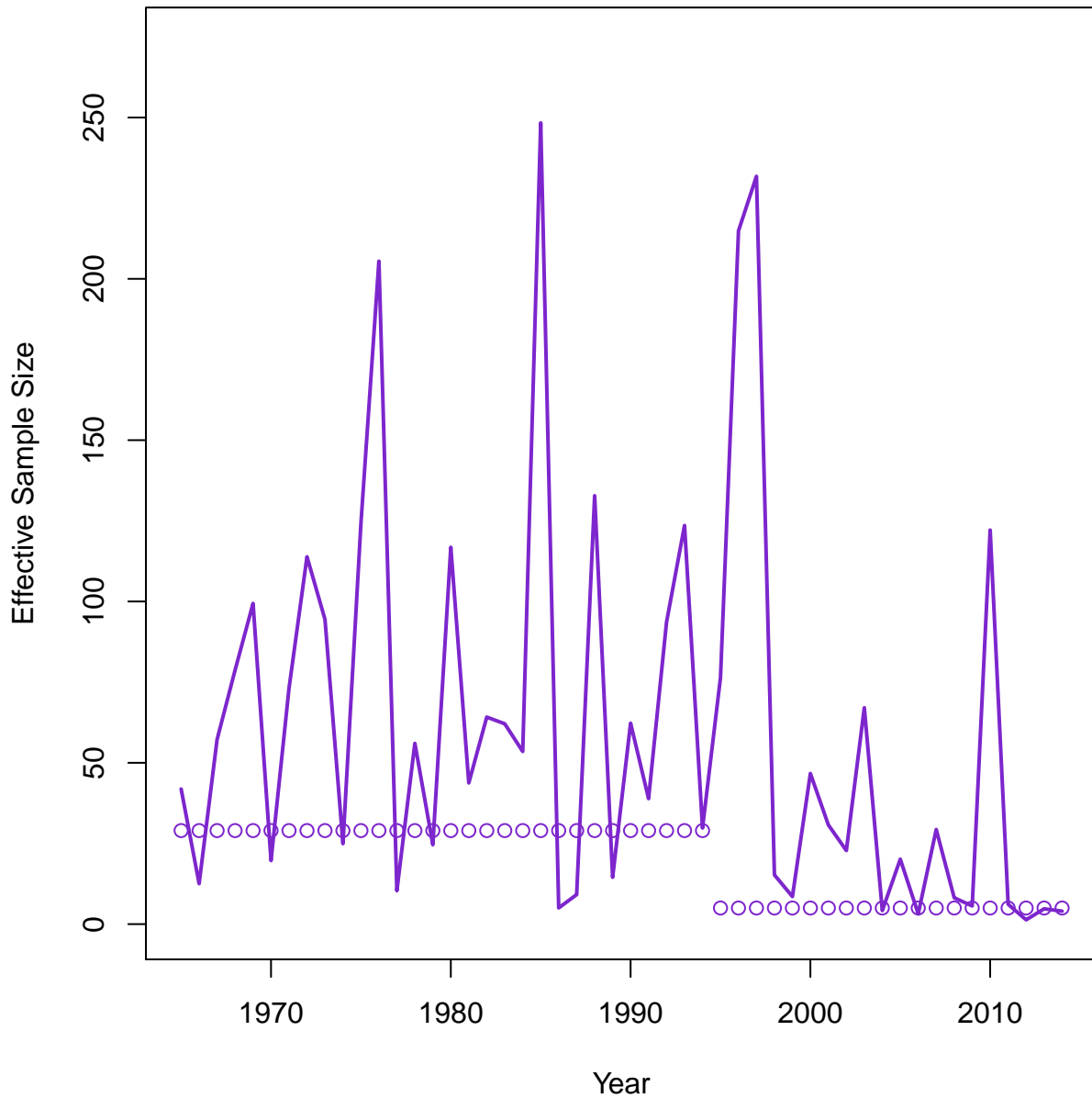
Age Comp Residuals for Catch by Fleet 2 (FLEET-2)



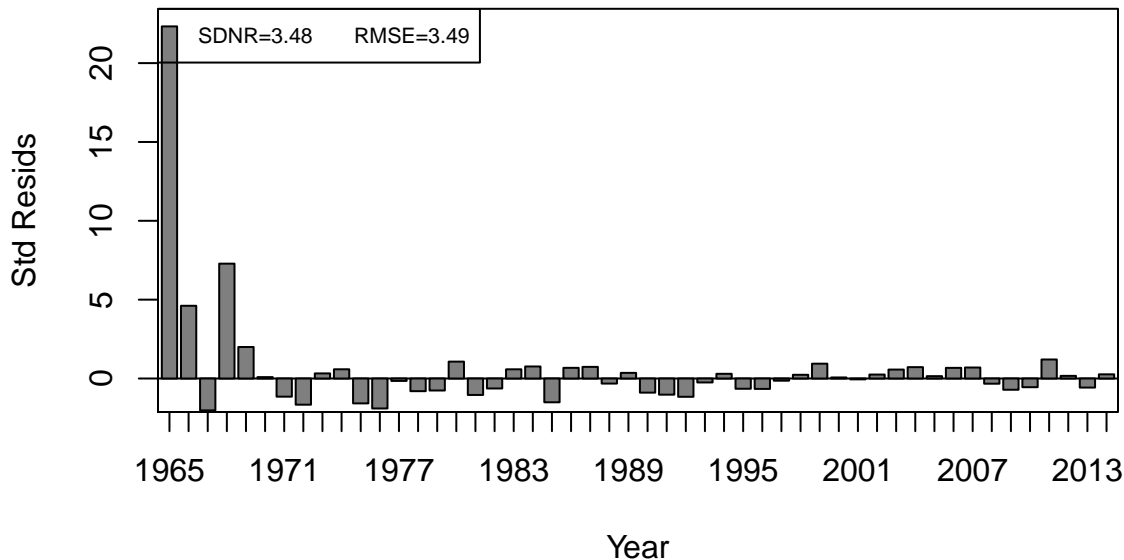
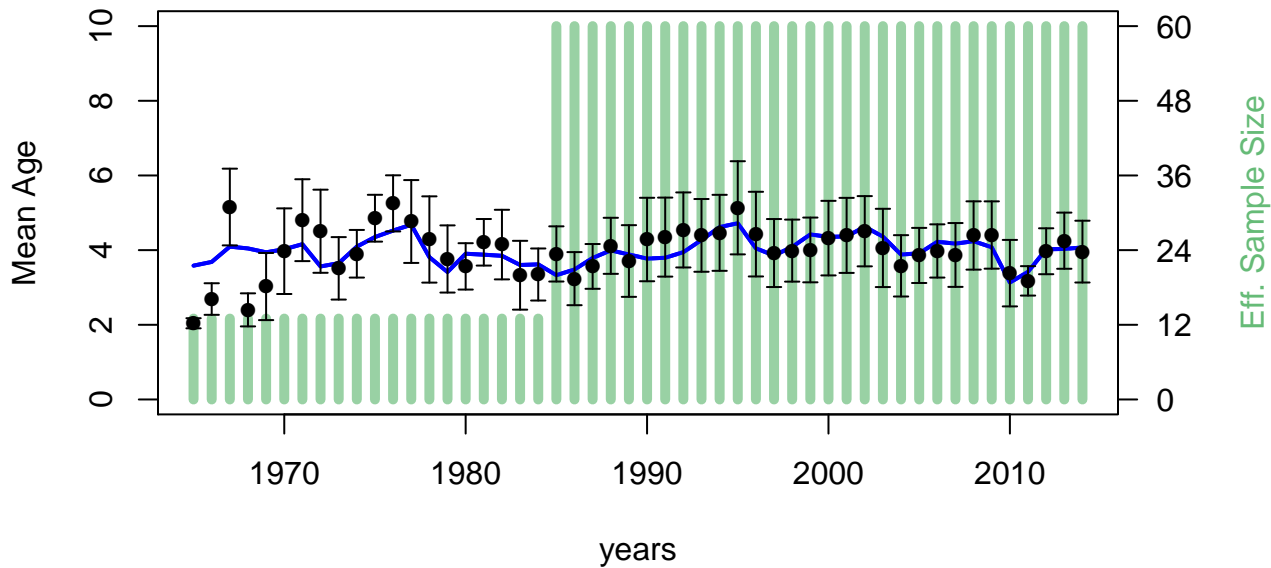
Catch Neff Fleet 1 (FLEET-1)



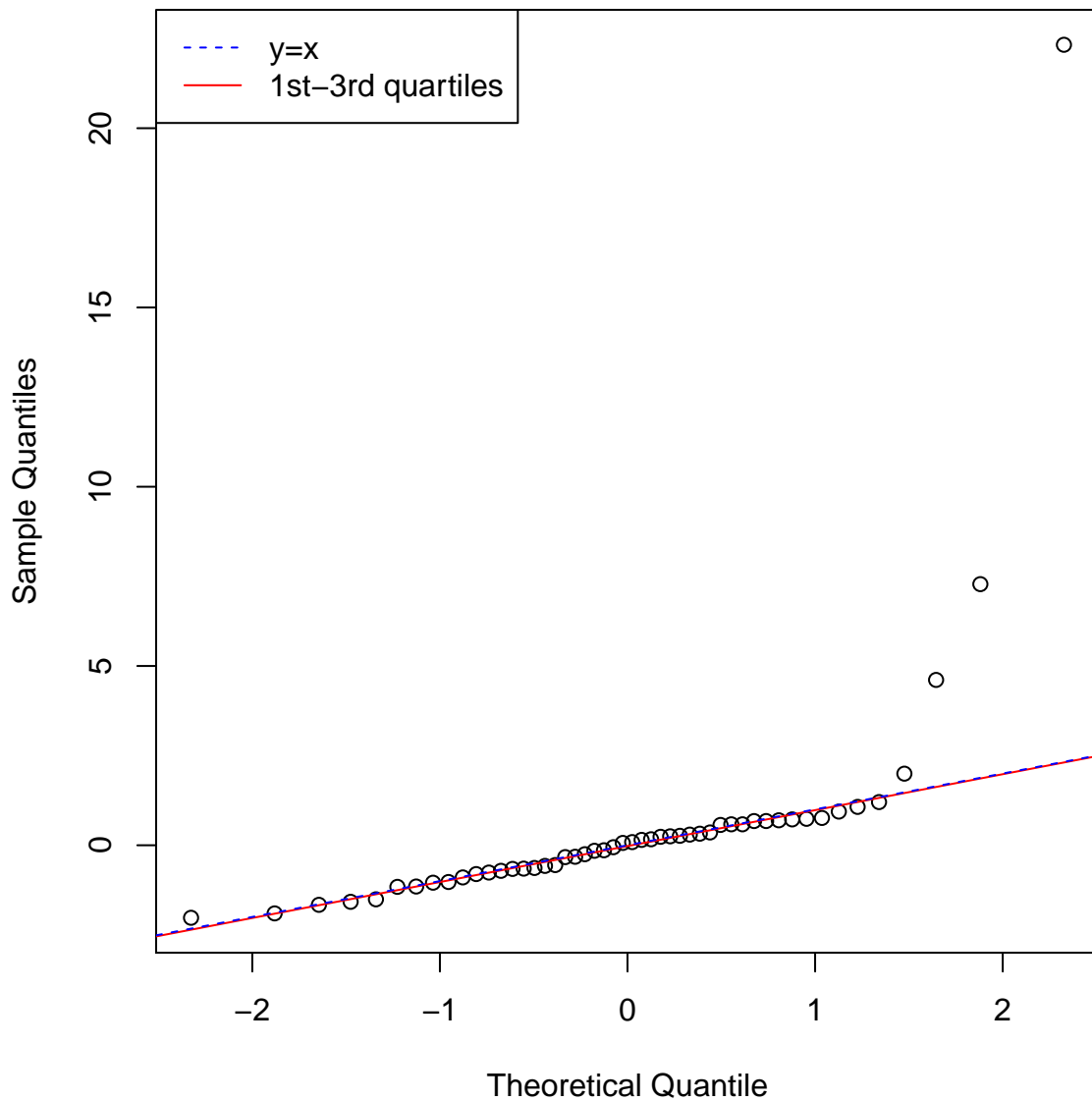
Catch Neff Fleet 2 (FLEET-2)



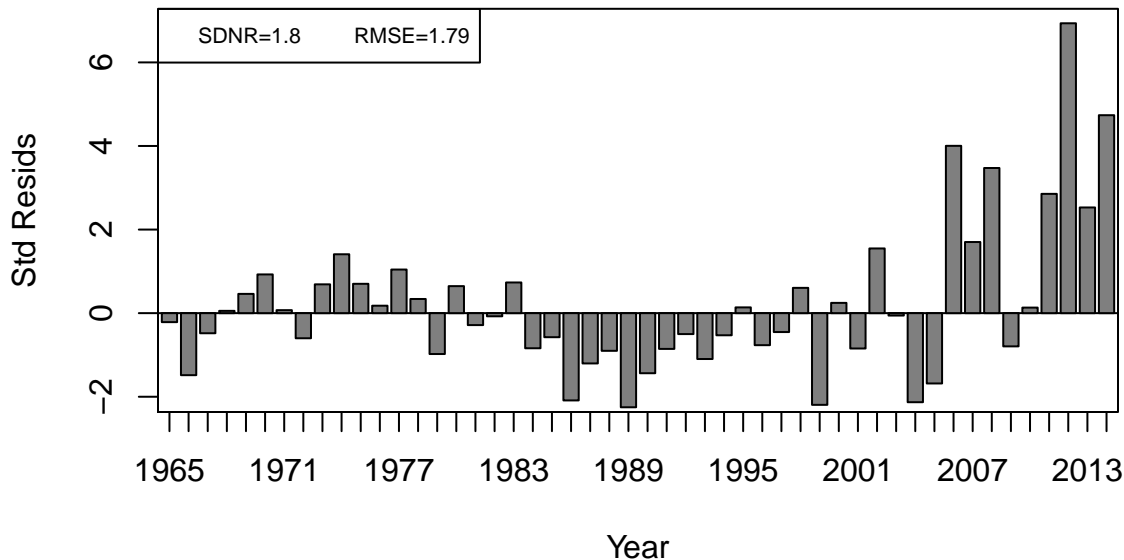
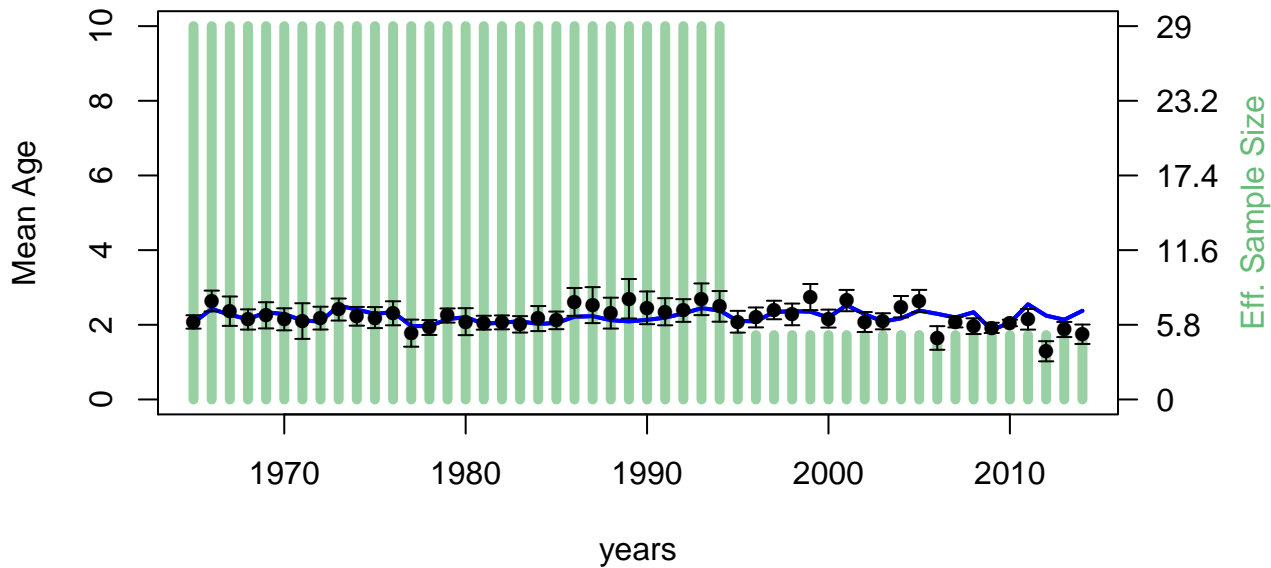
Catch Fleet 1 (FLEET-1)



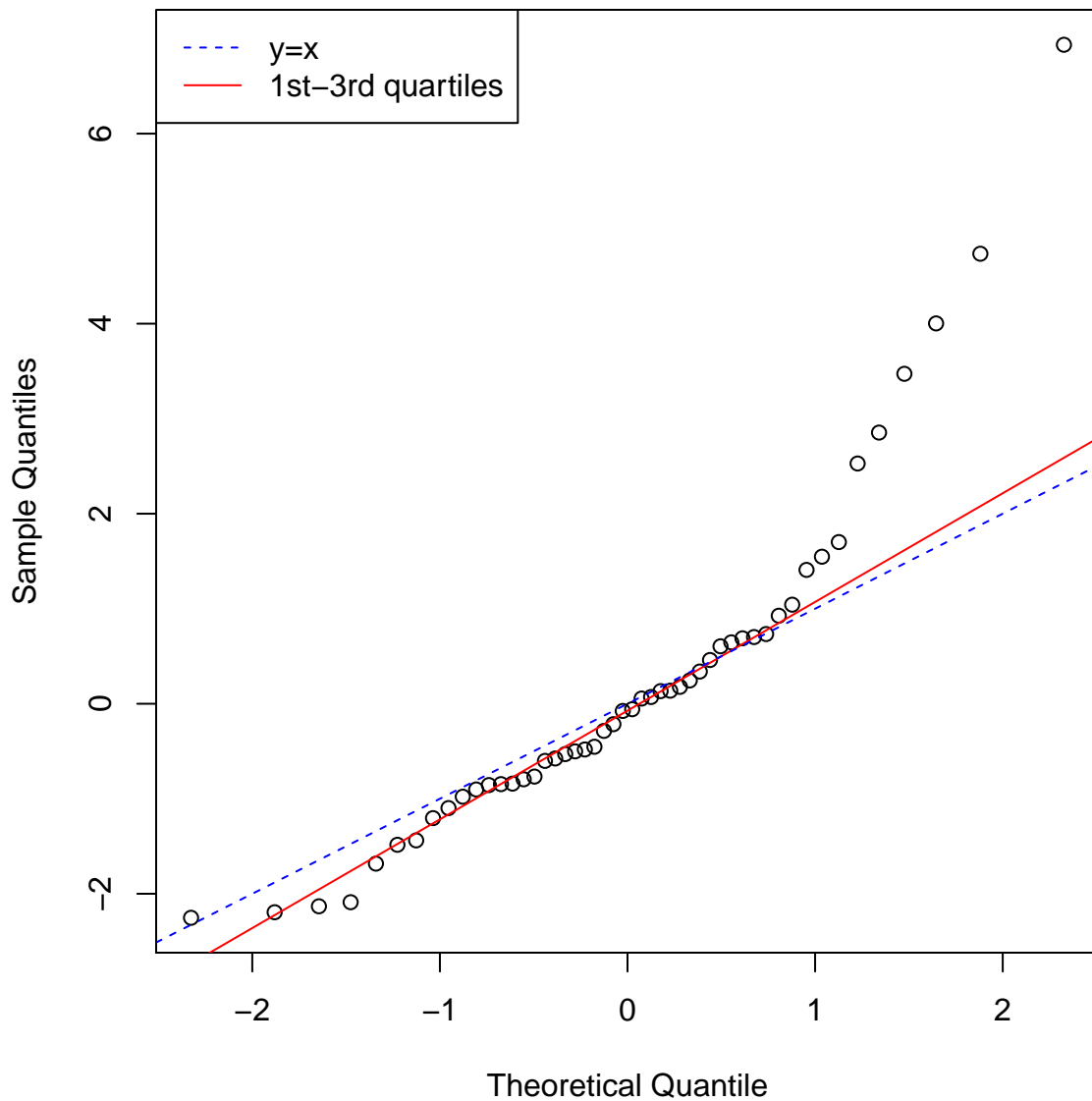
Catch Fleet 1 (FLEET-1)



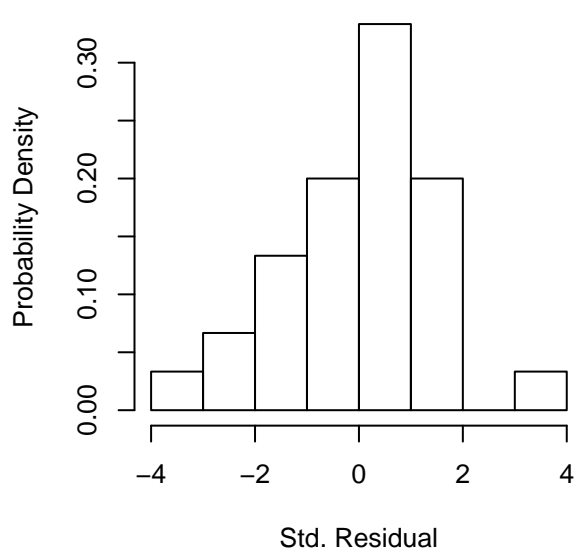
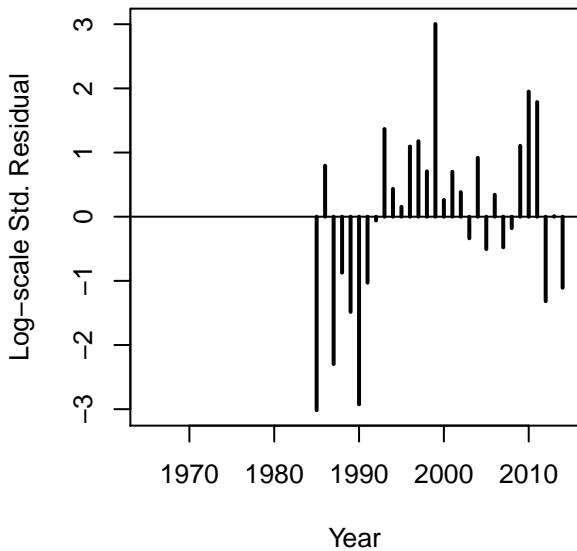
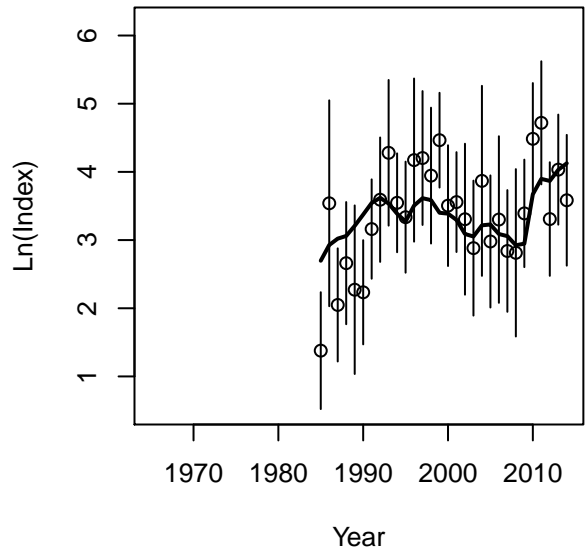
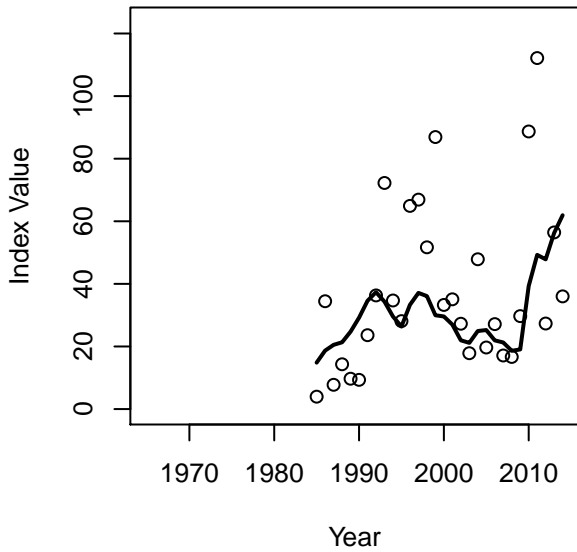
Catch Fleet 2 (FLEET-2)



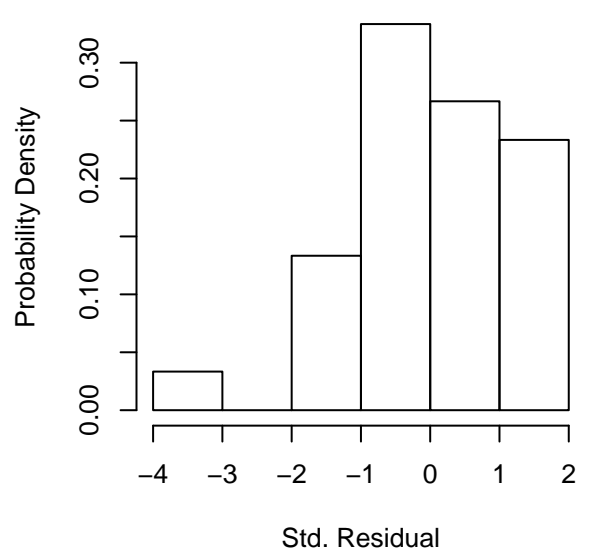
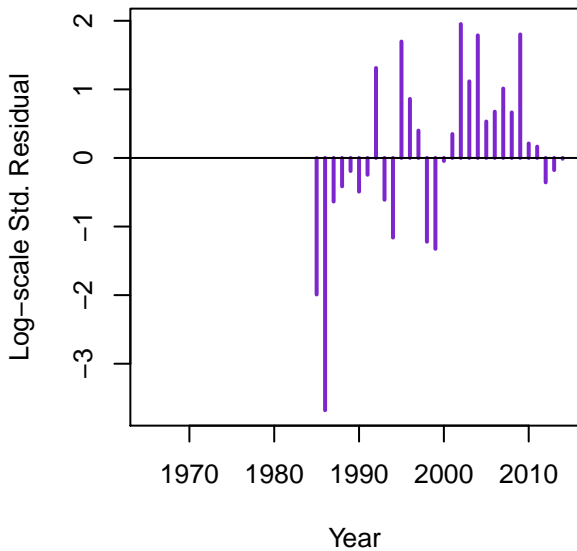
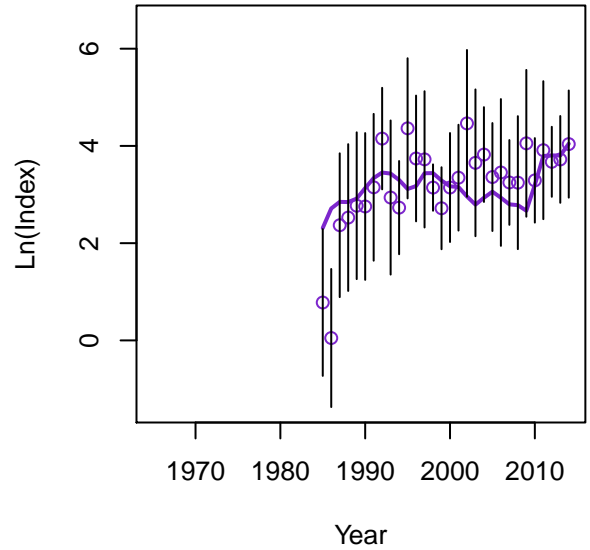
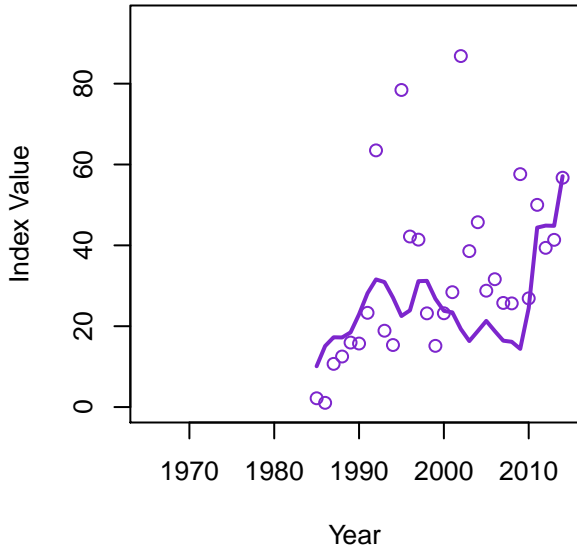
Catch Fleet 2 (FLEET-2)



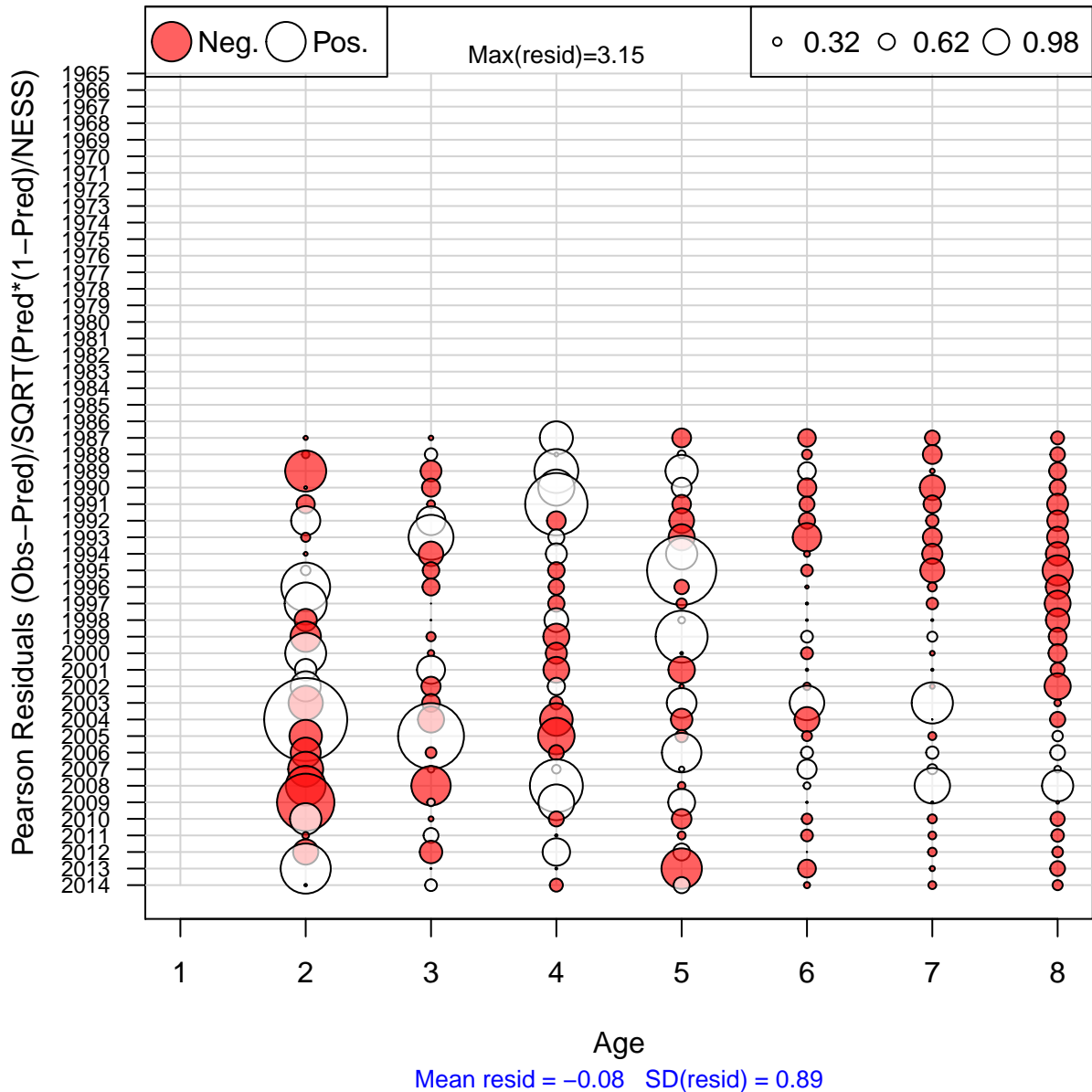
Index 1 (INDEX-1)



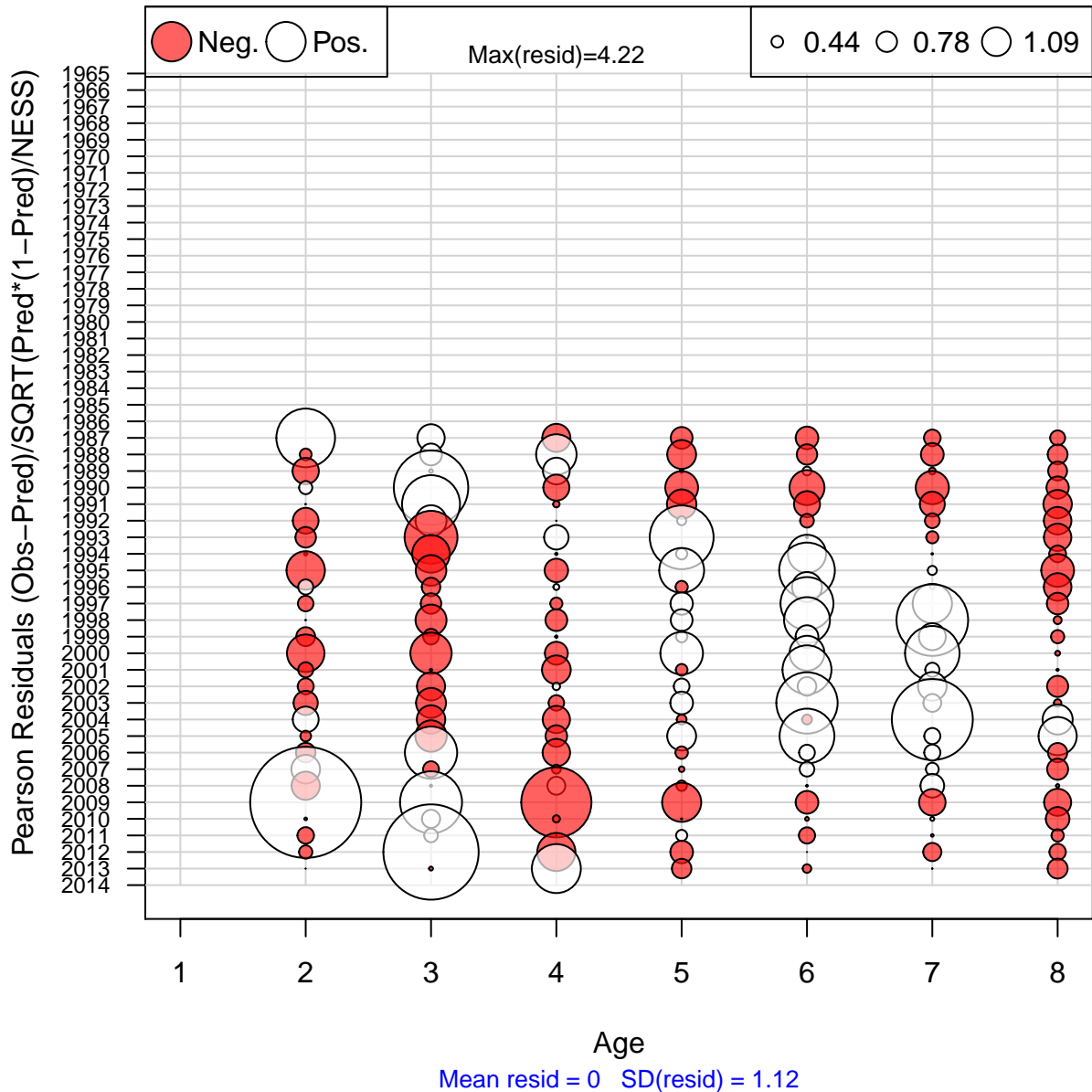
Index 2 (INDEX-2)



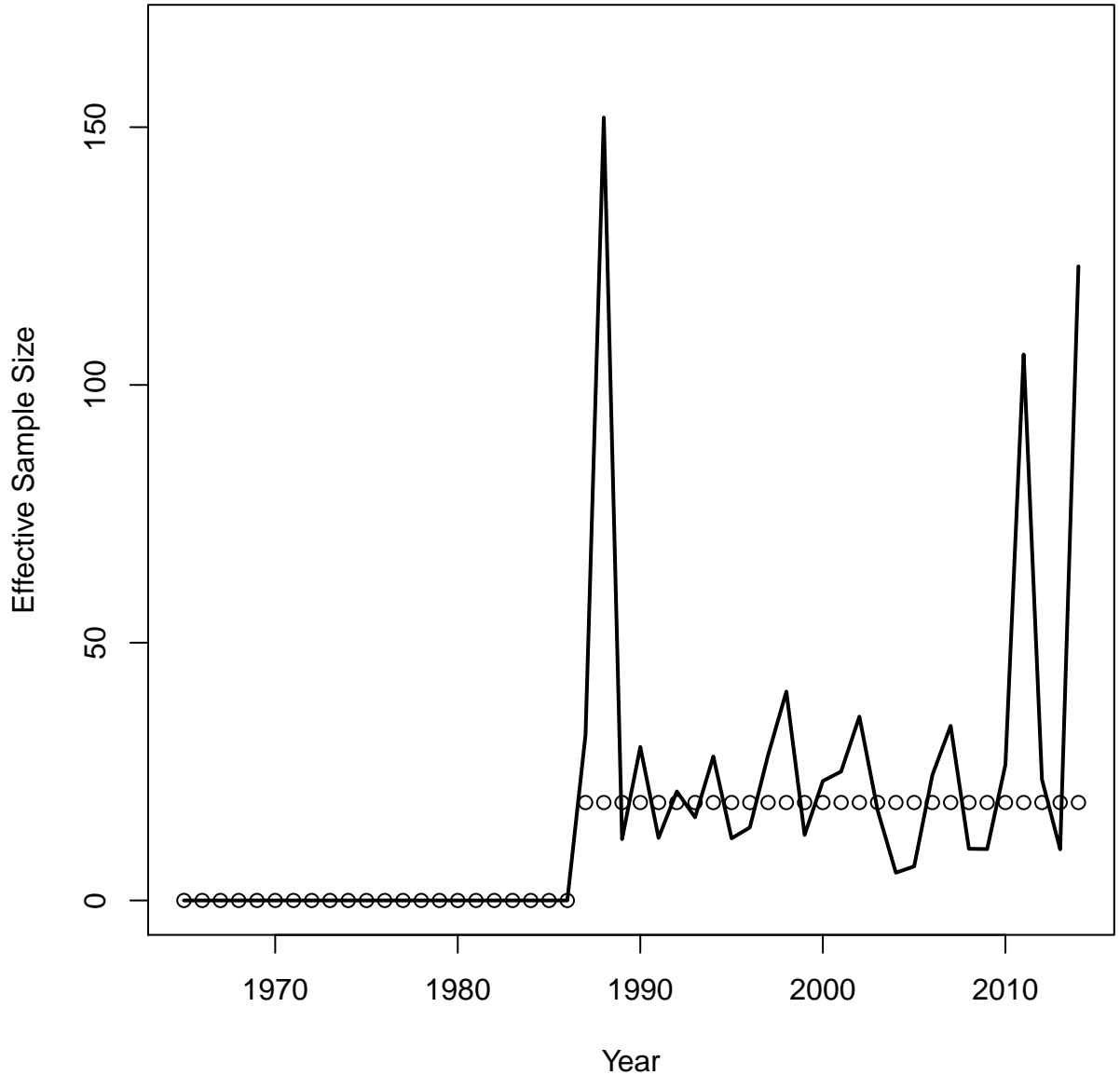
Age Comp Residuals for Index 1 (INDEX-1)



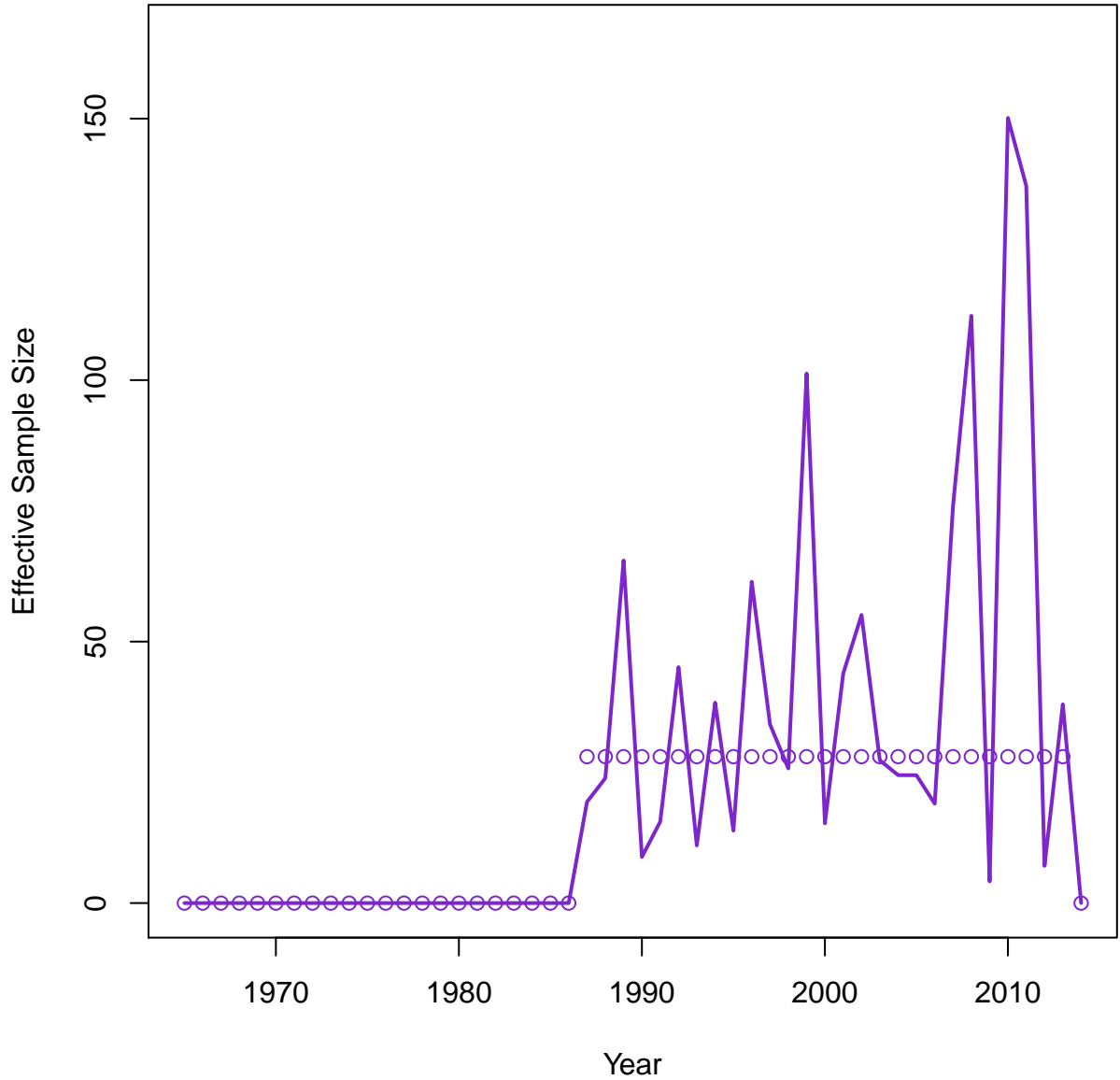
Age Comp Residuals for Index 2 (INDEX-2)



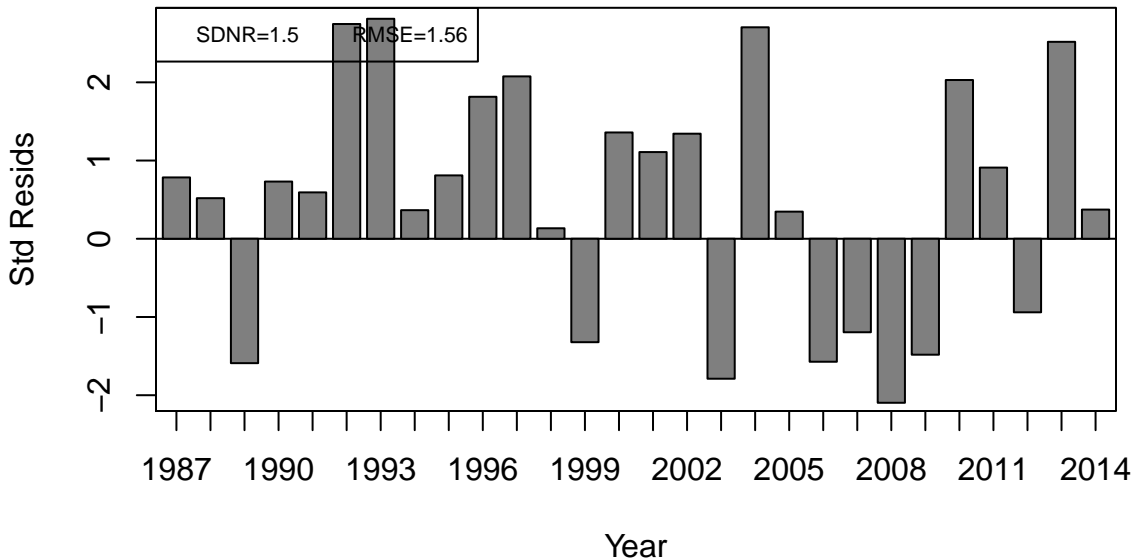
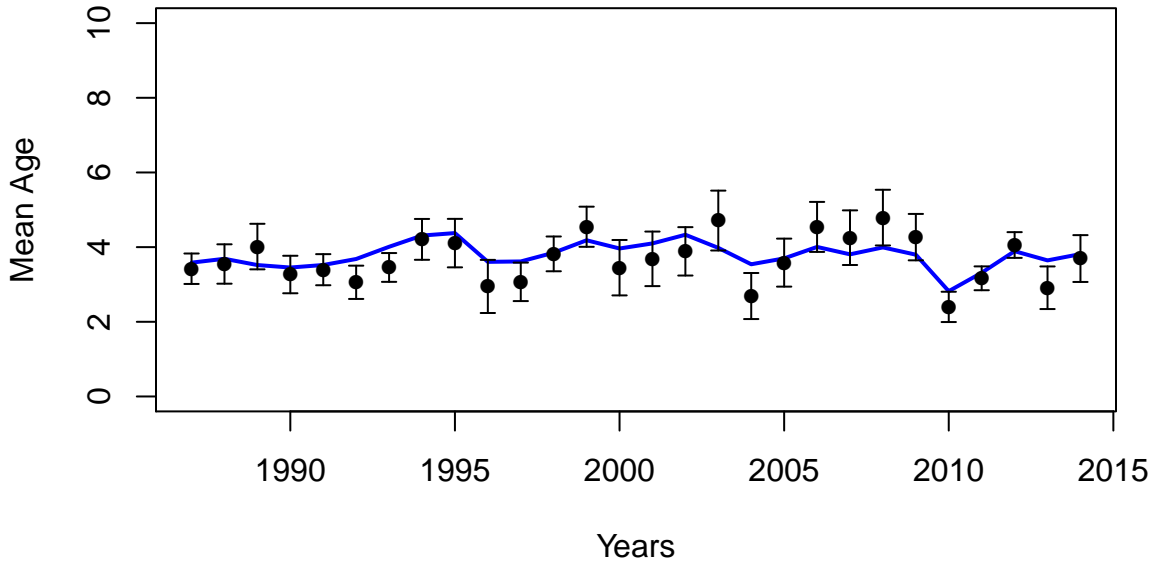
Index Neff 1 (INDEX-1)



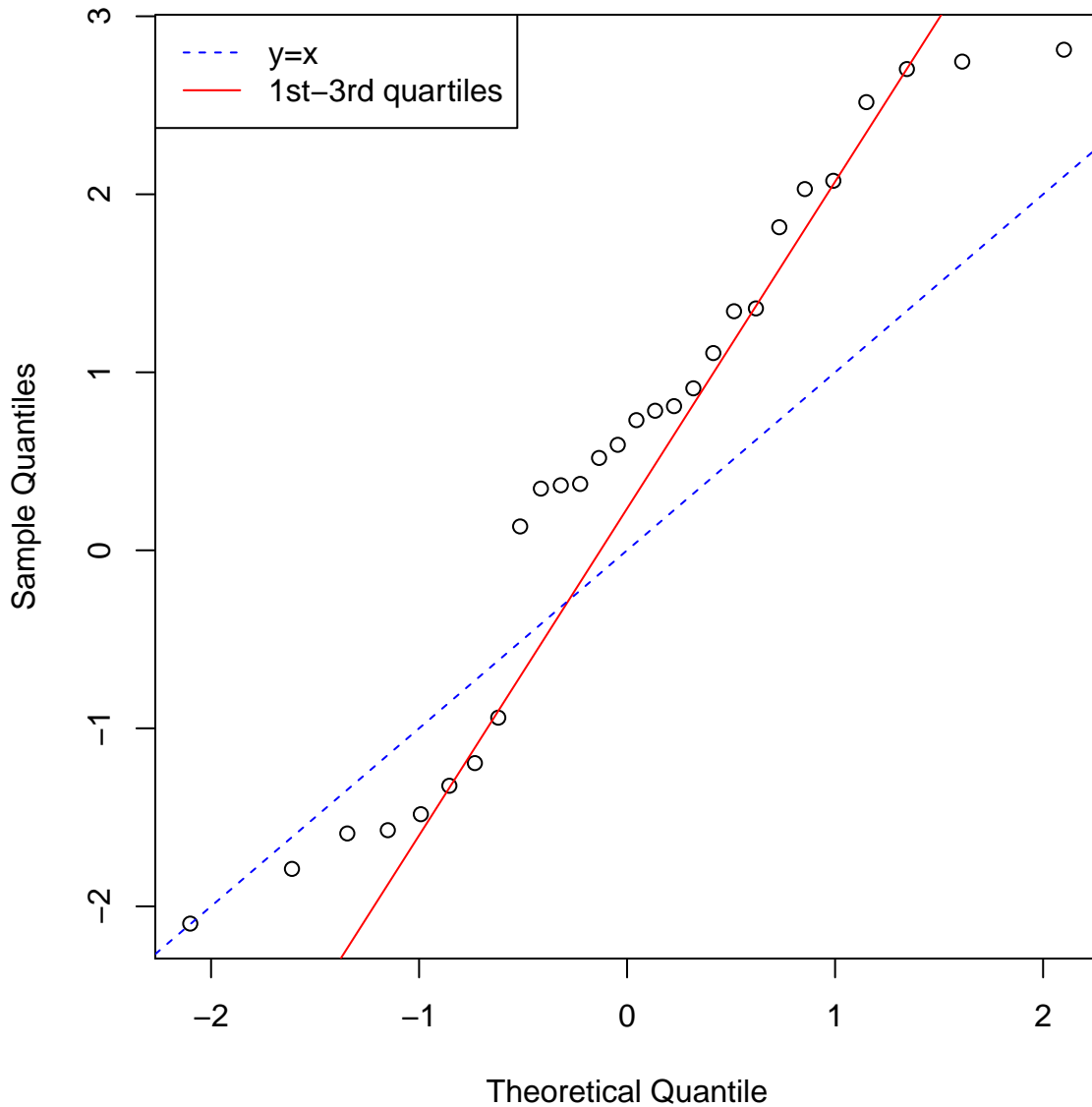
Index Neff 2 (INDEX-2)



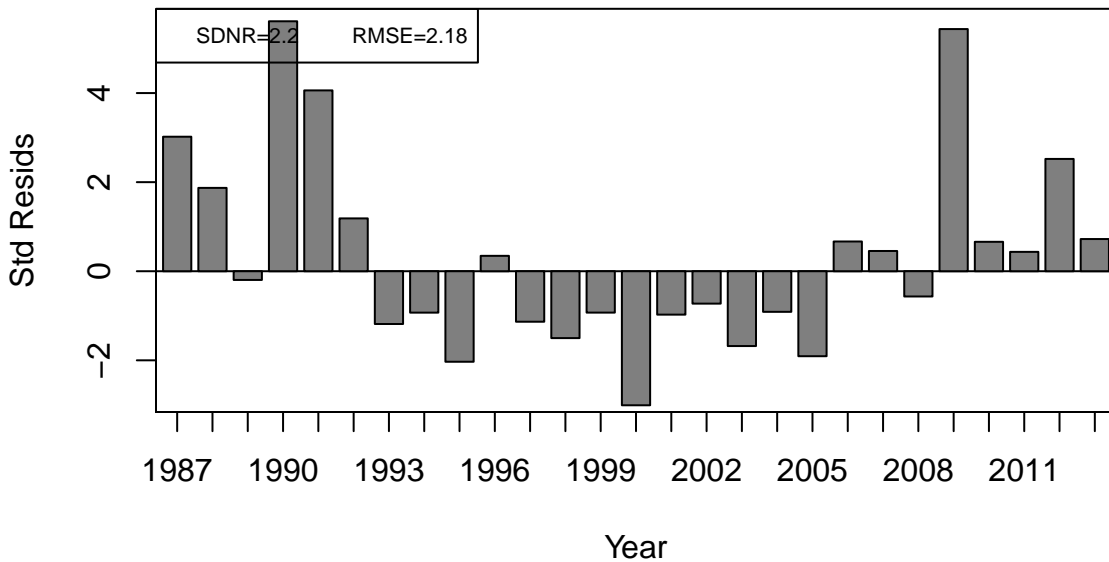
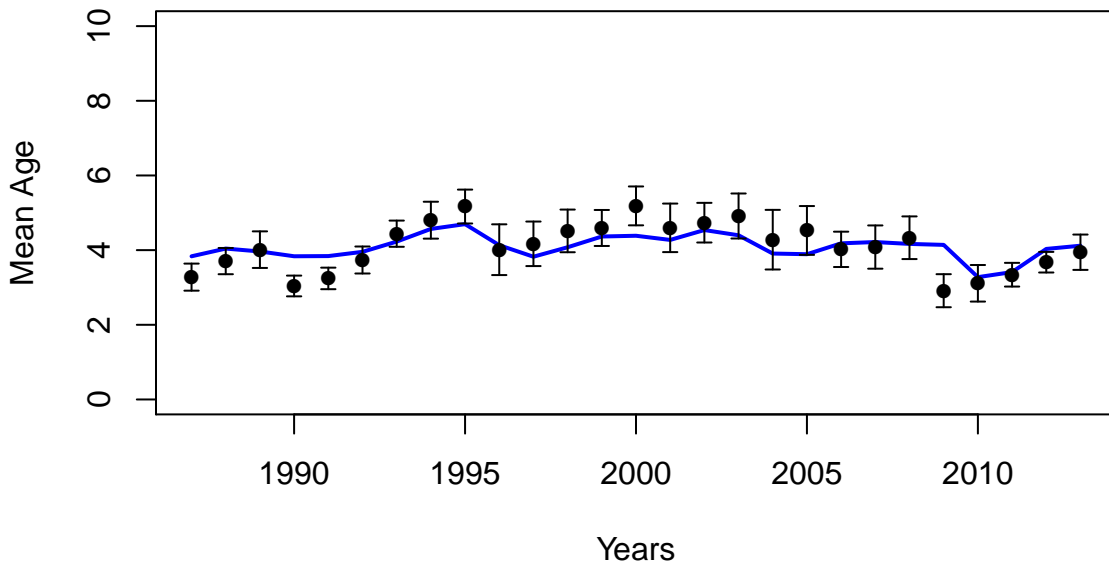
Index 1 (INDEX-1) ESS = 19



Index 1 (INDEX-1) ESS = 19



Index 2 (INDEX-2) ESS = 28



Index 2 (INDEX-2) ESS = 28

