

Plots created using the 'r4ss' package in R

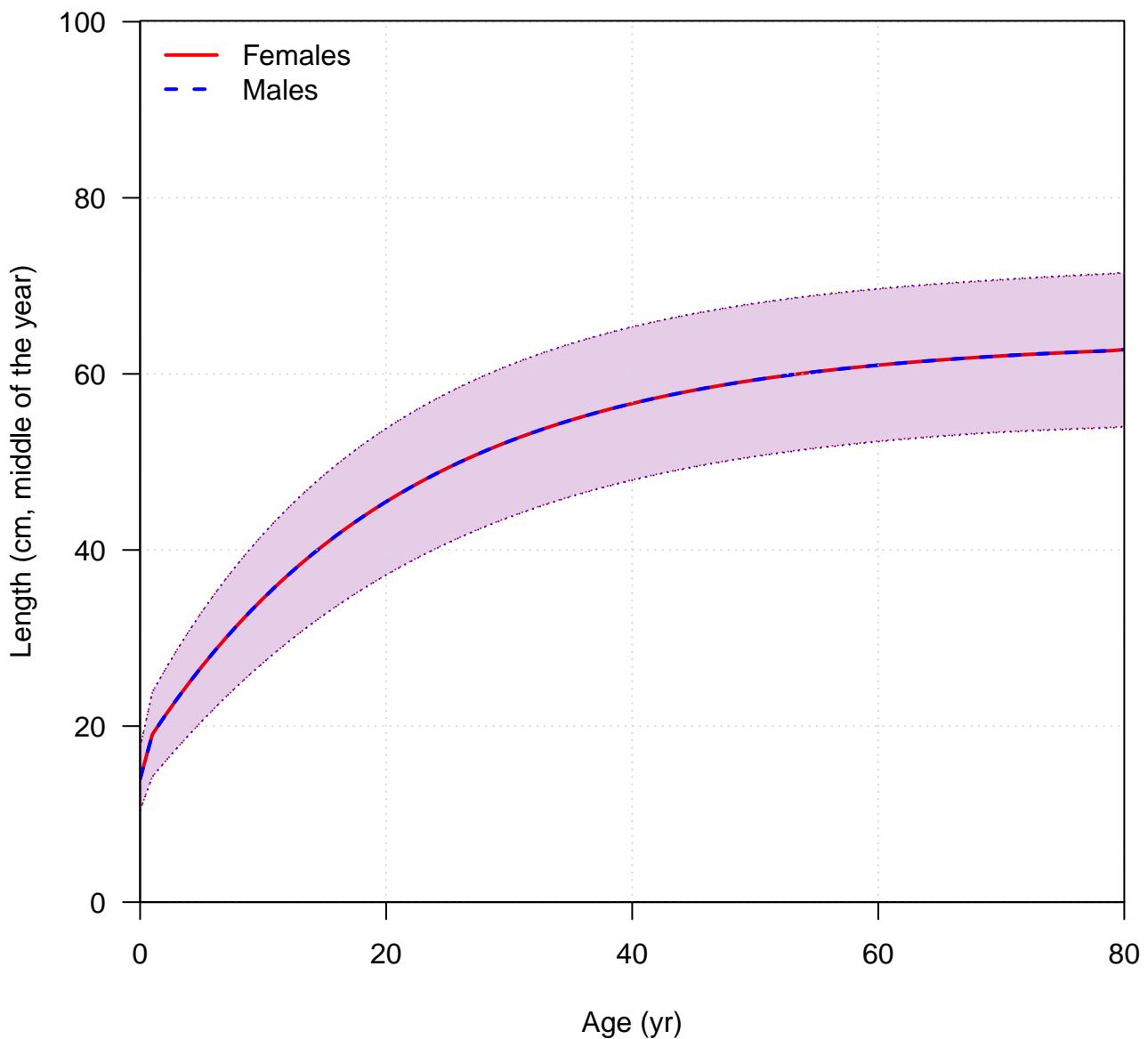
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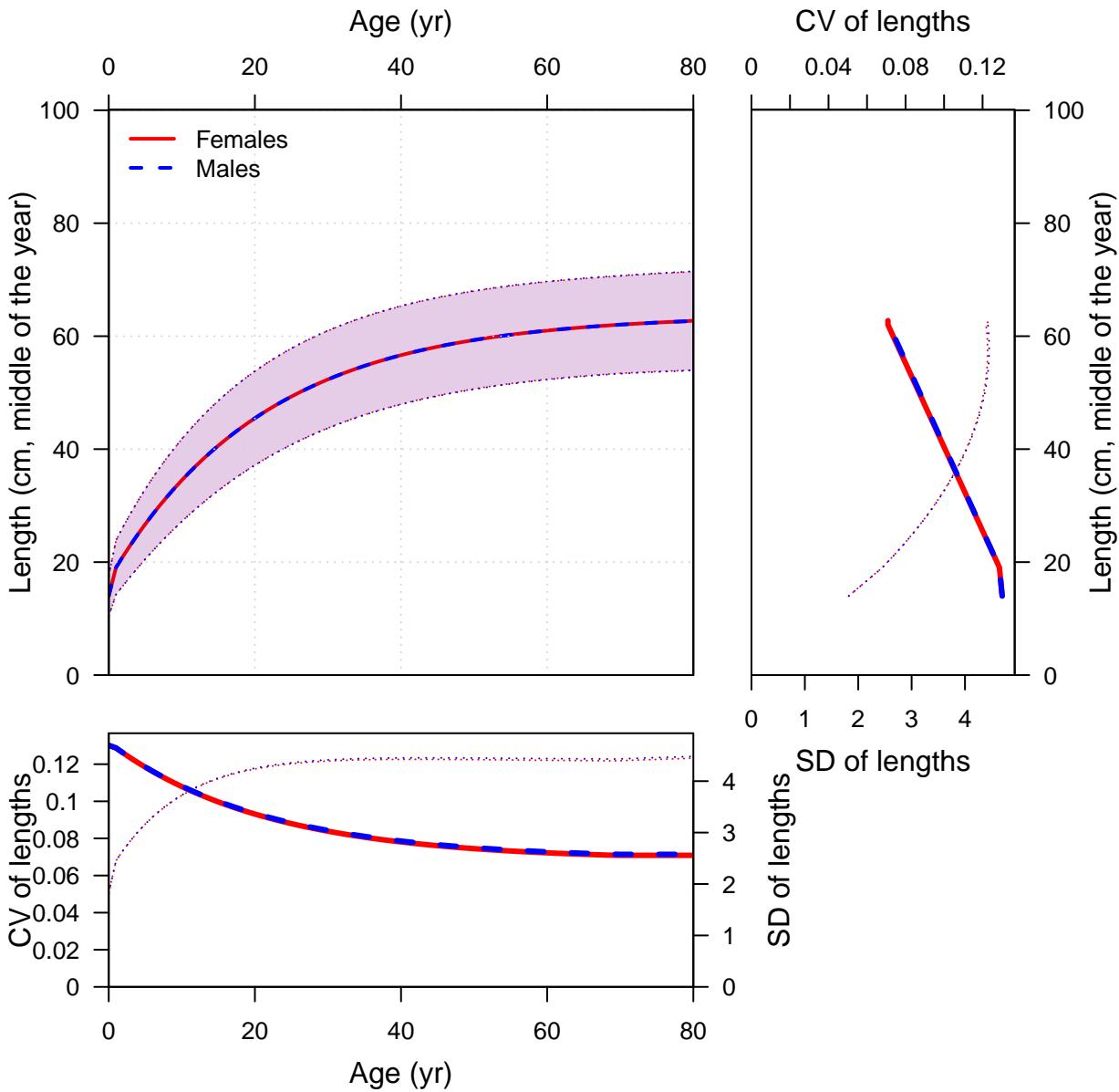
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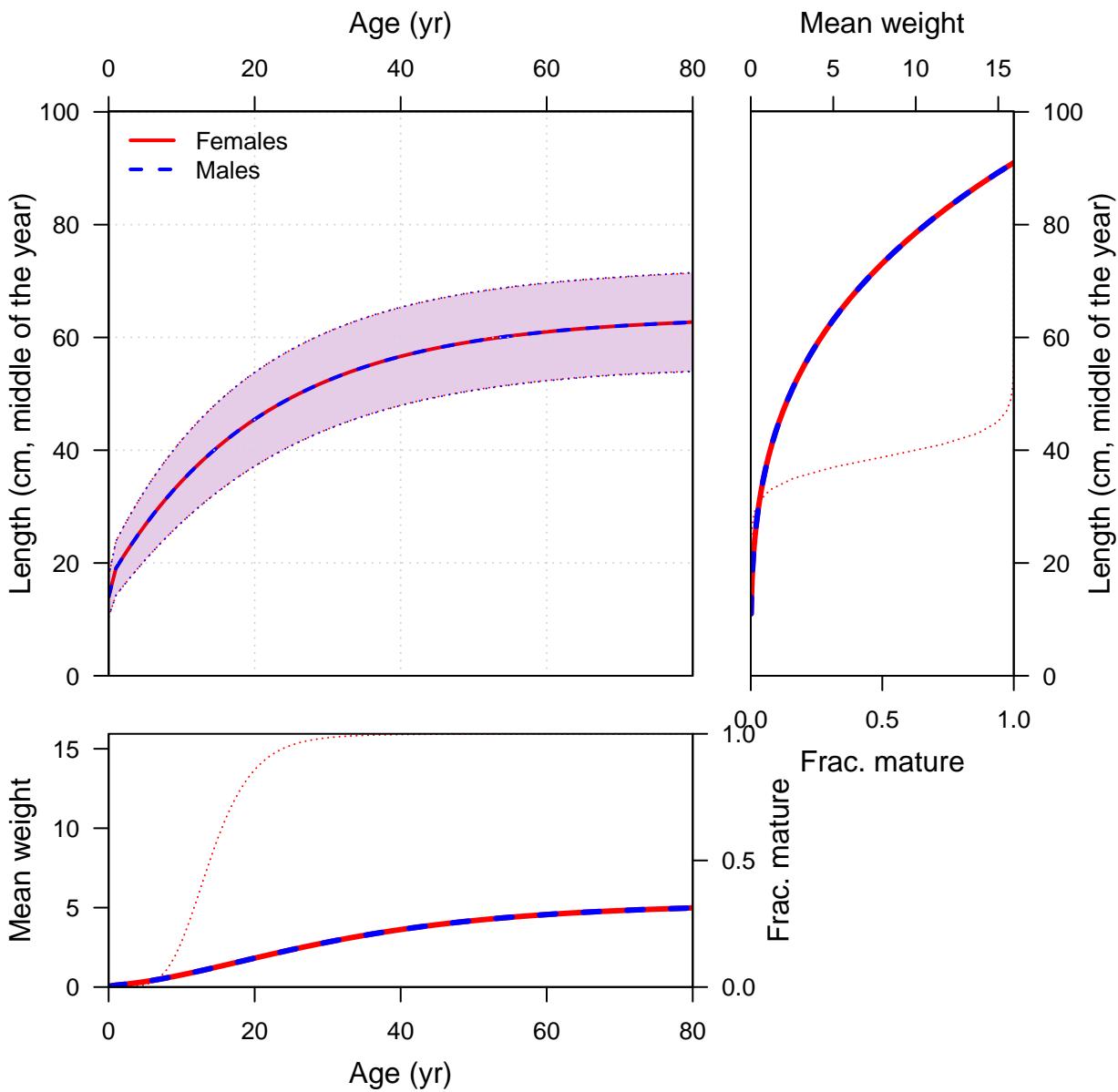
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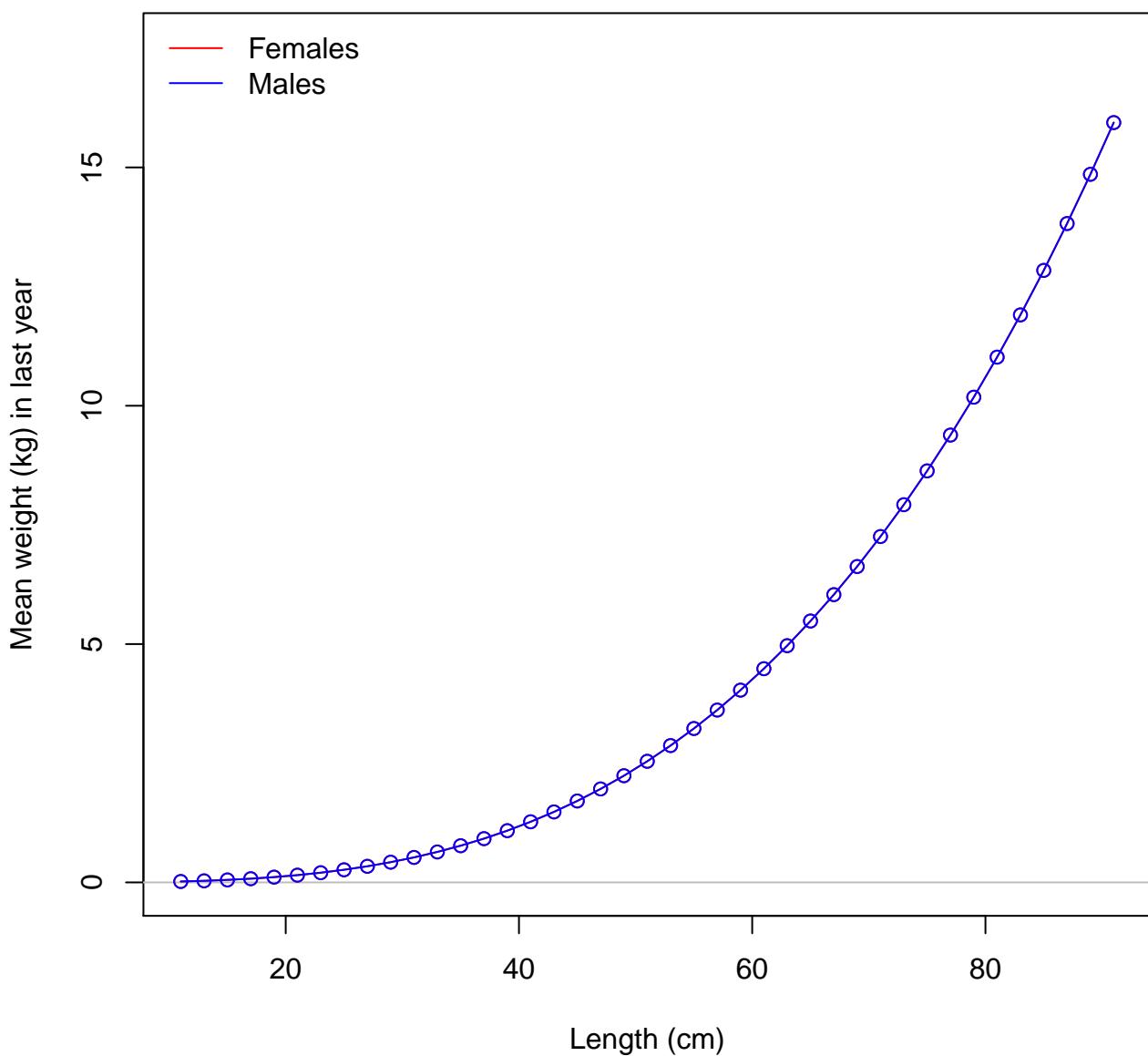
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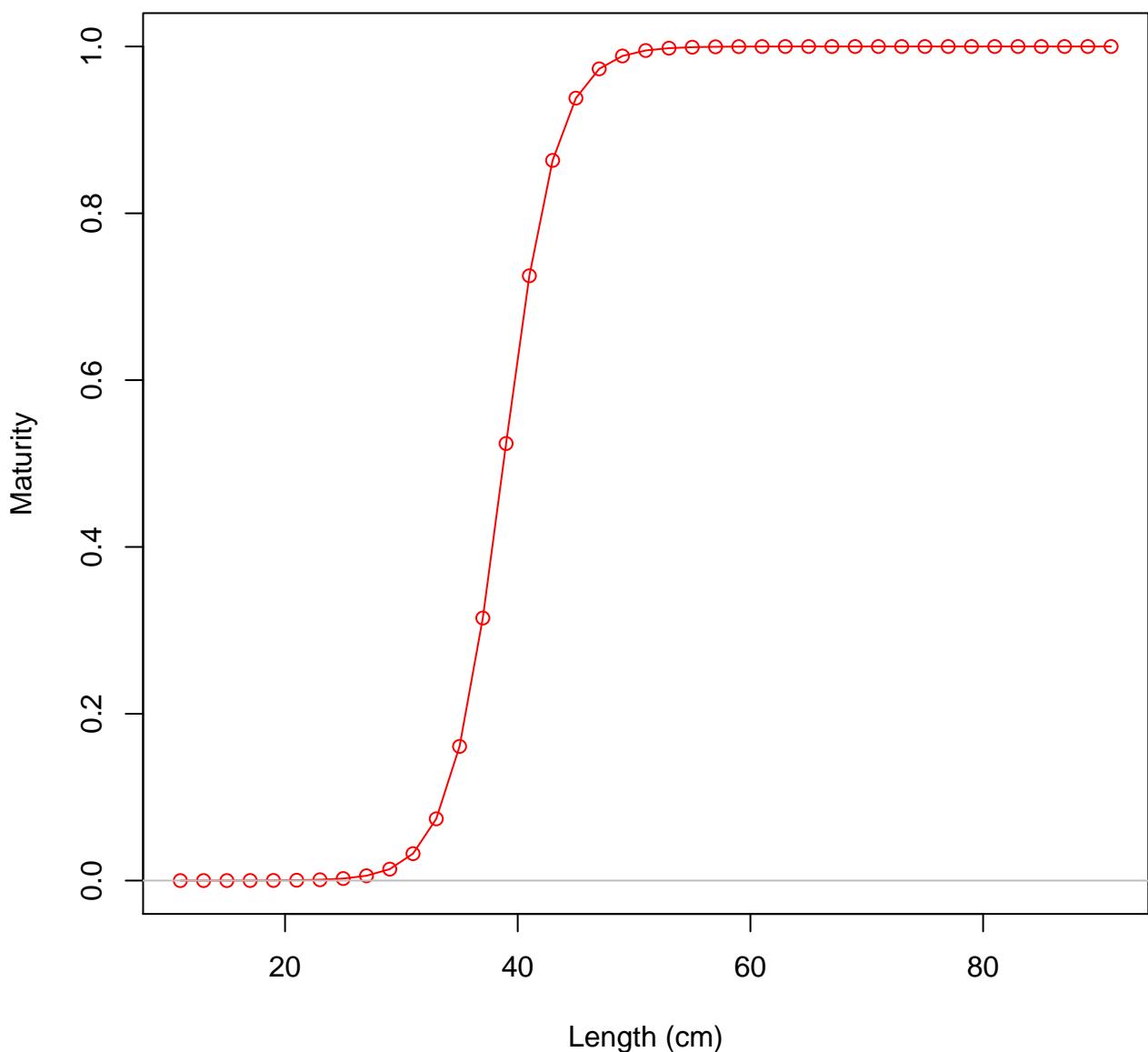
Ending year expected growth (with 95% intervals)

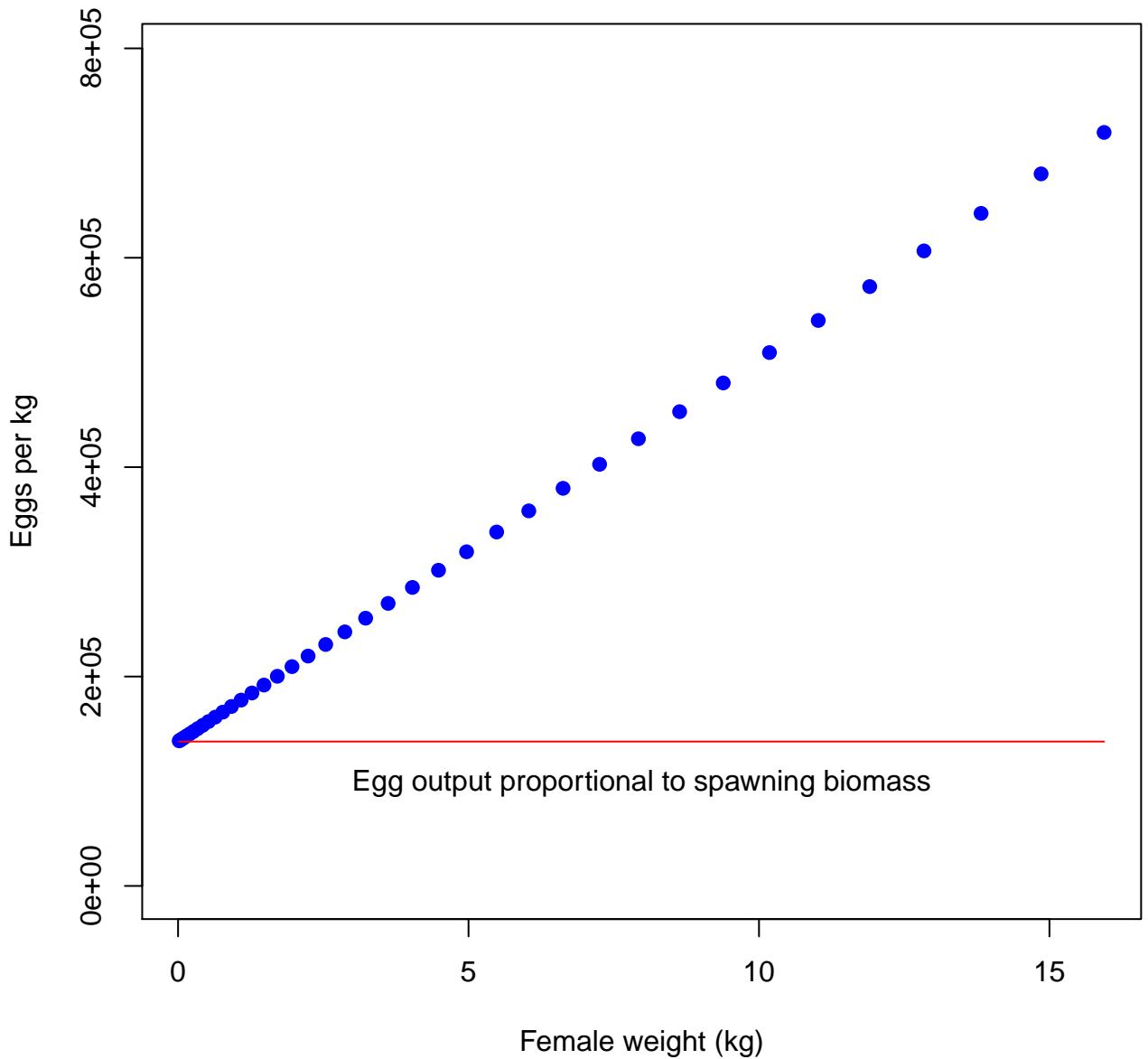


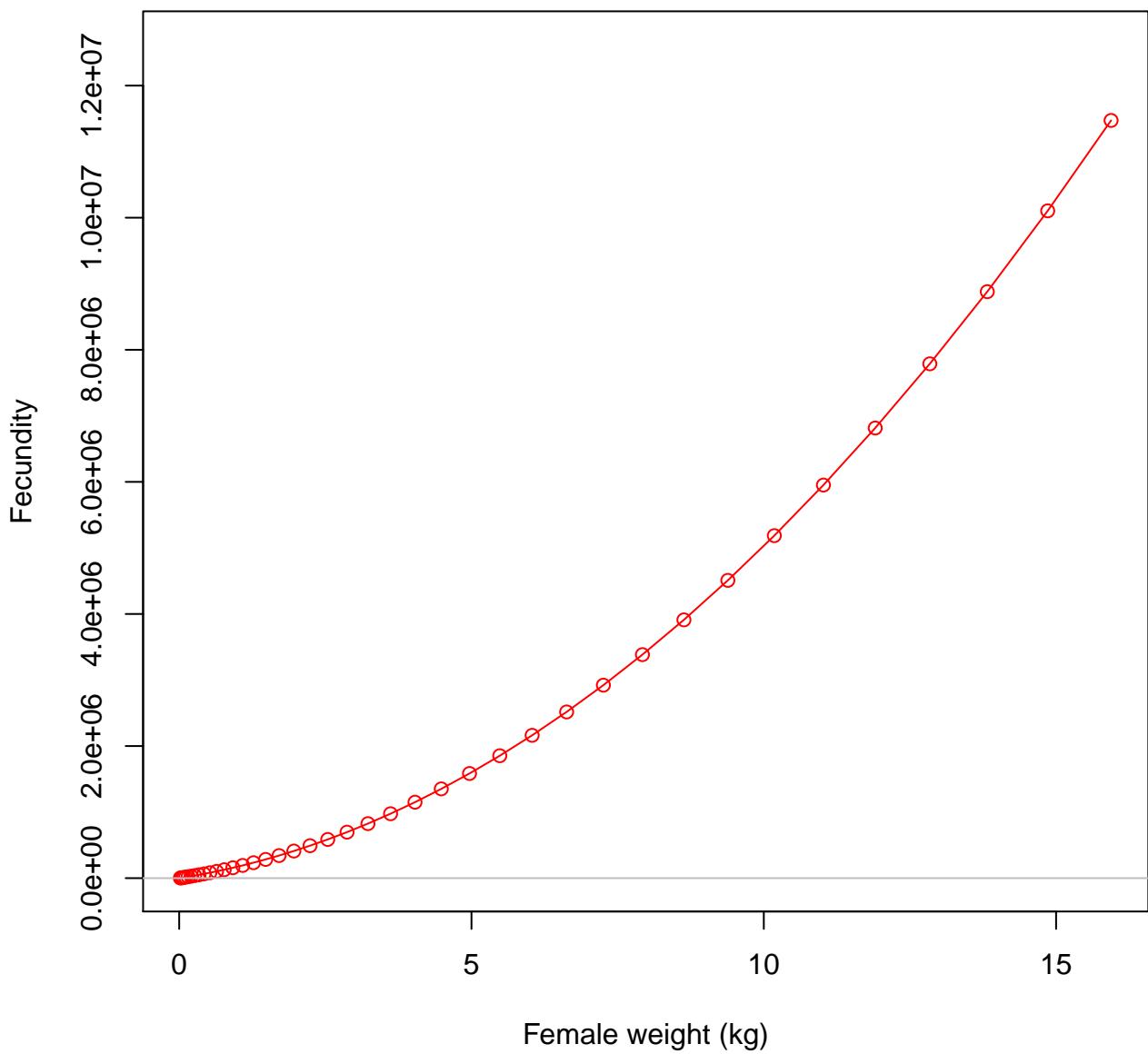


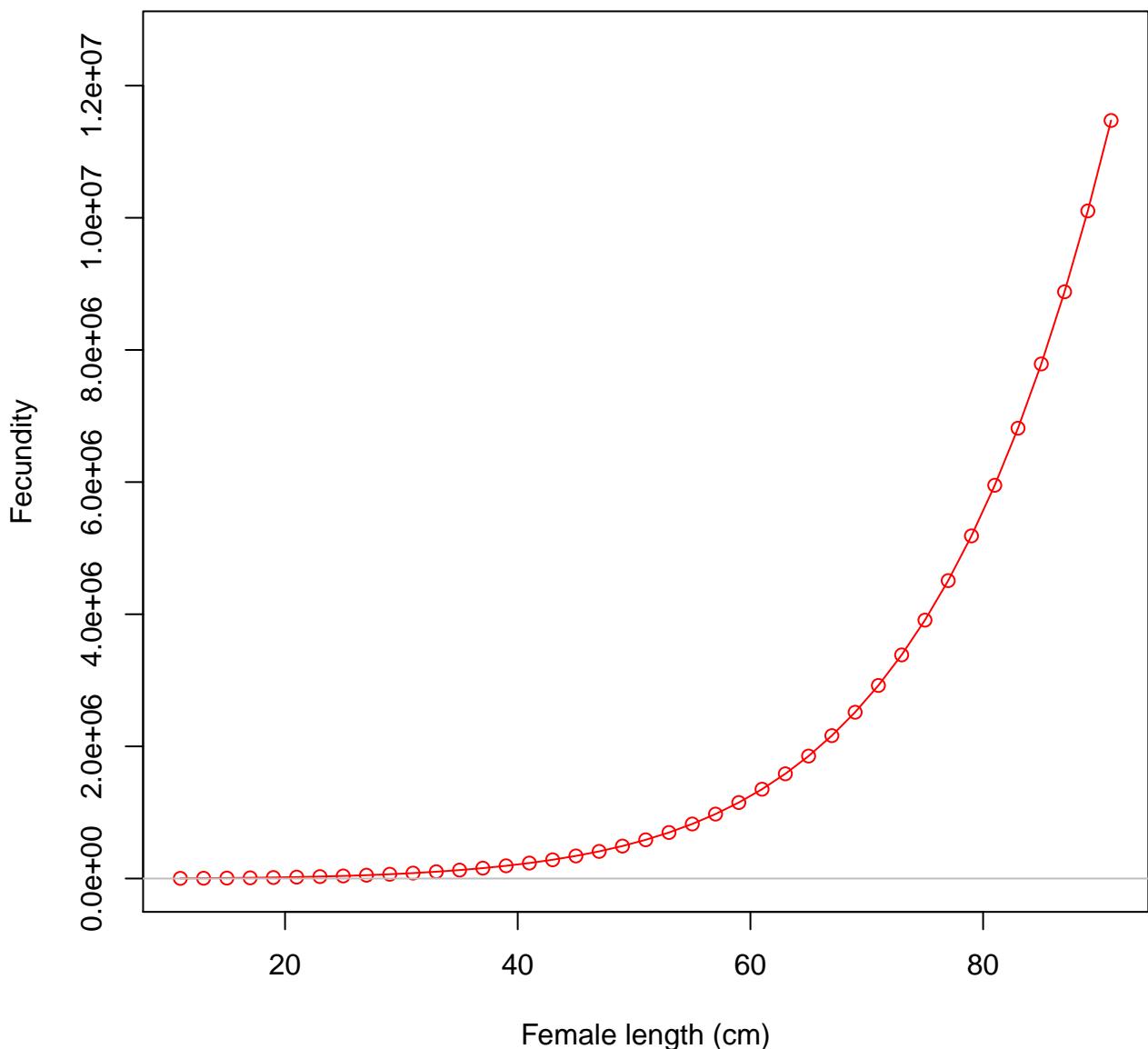


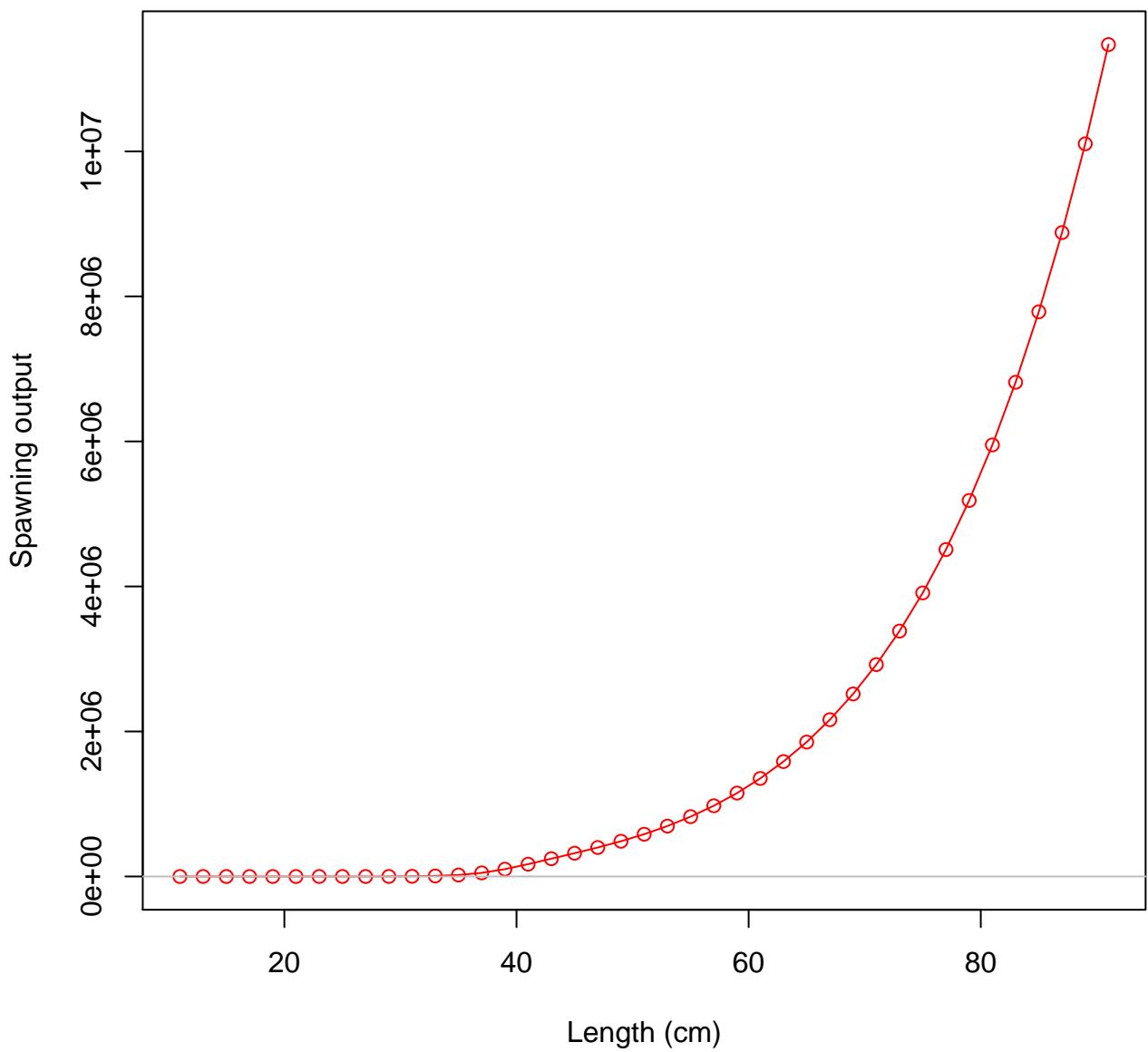




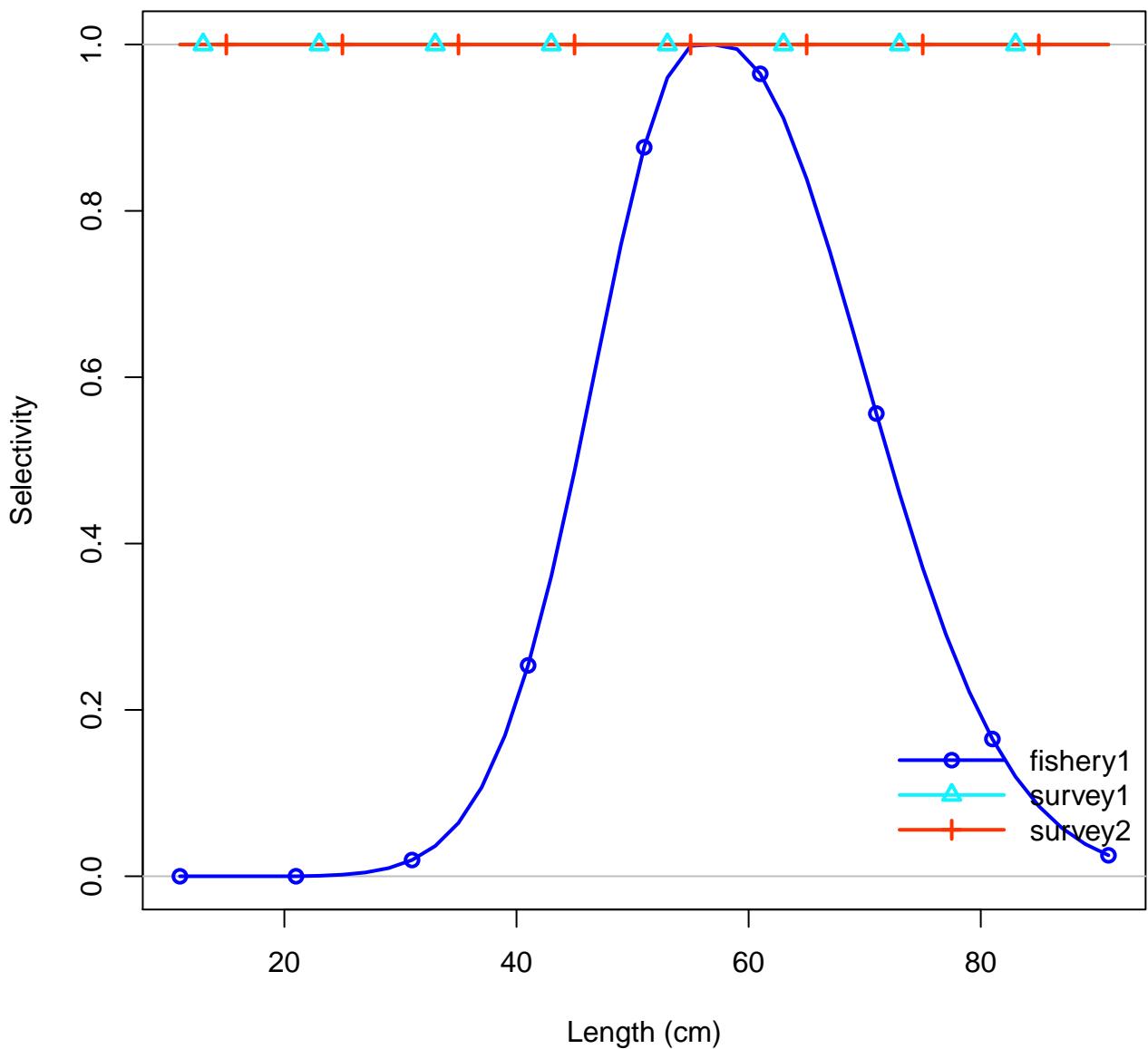




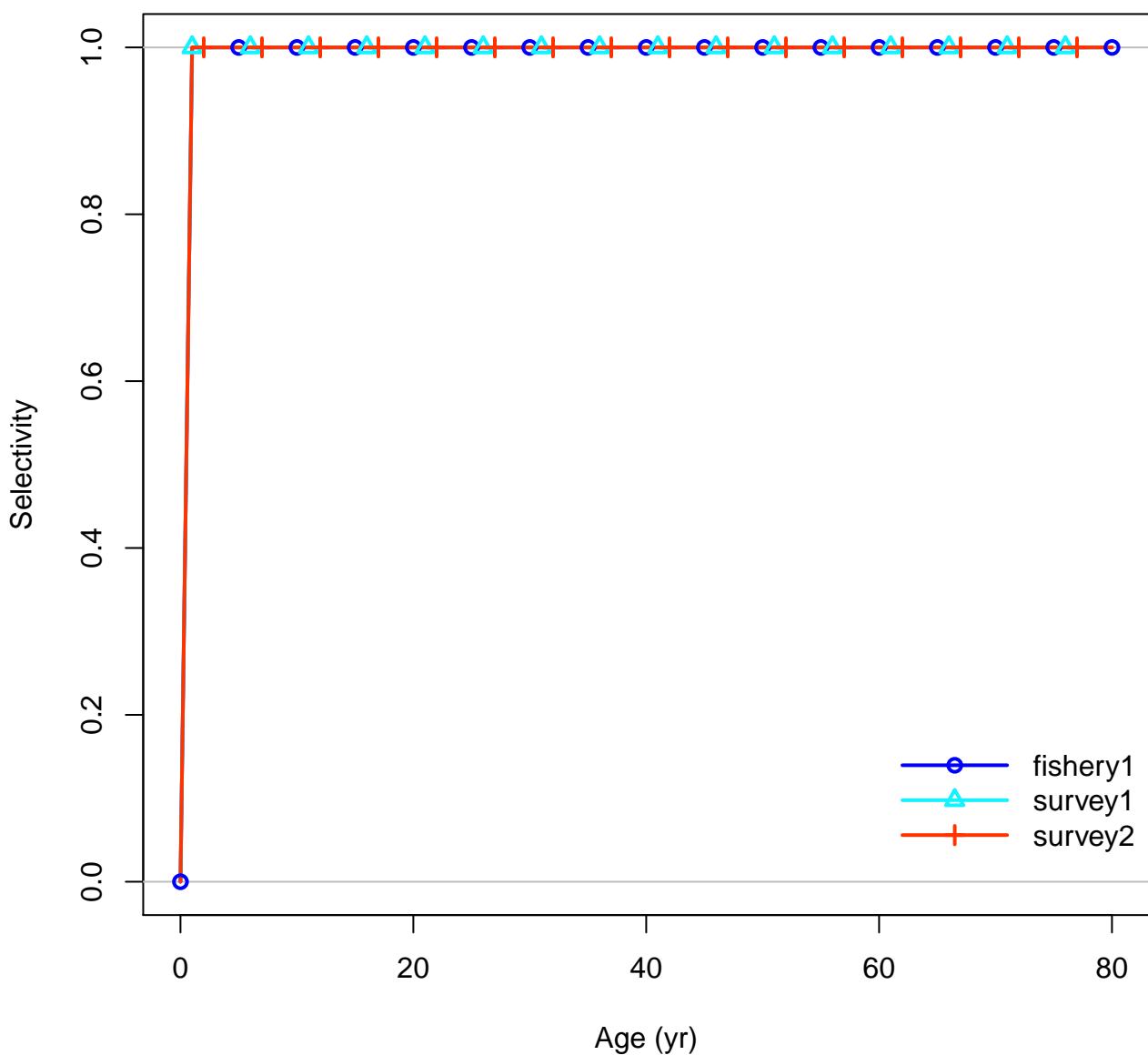




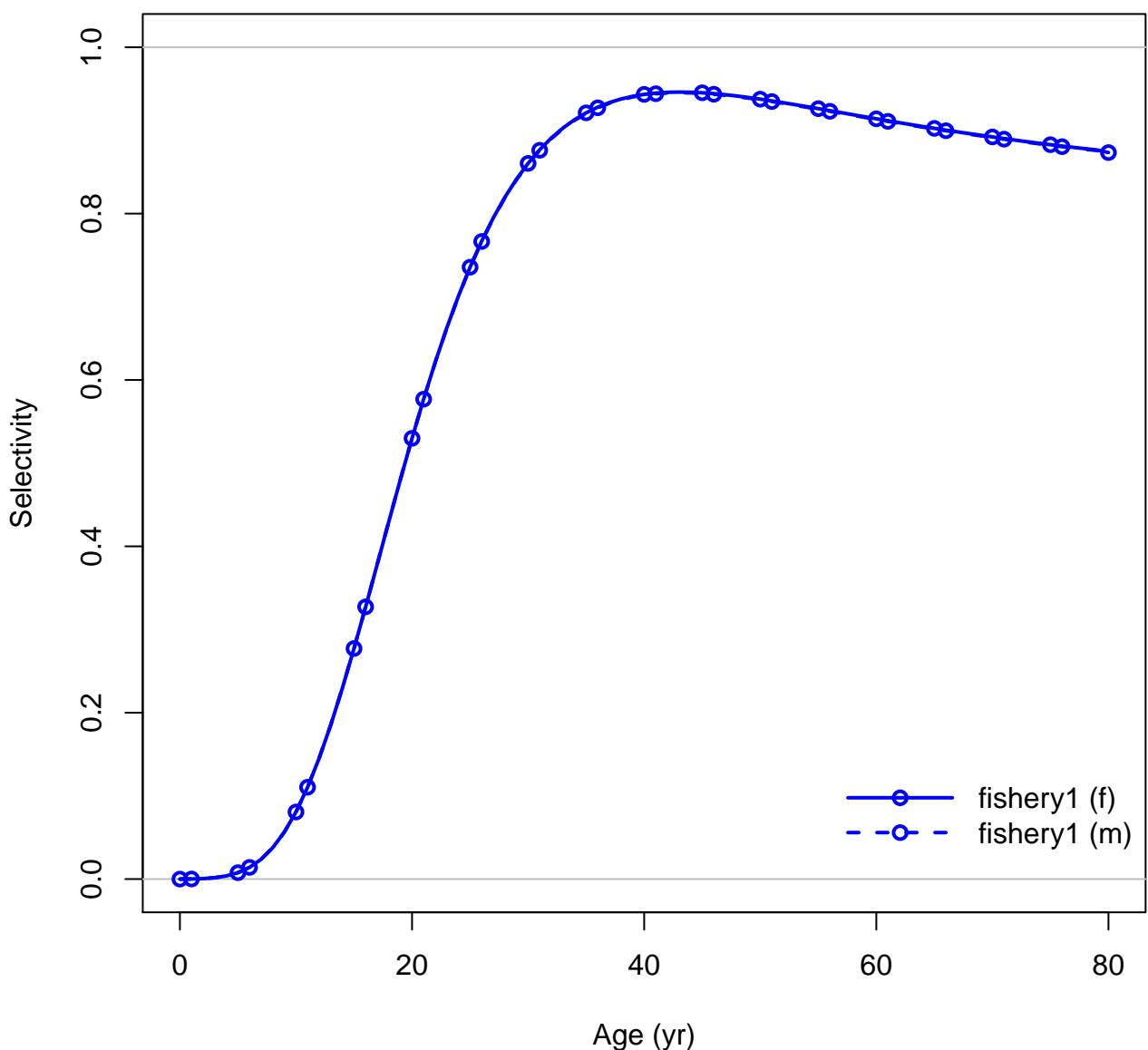
Length-based selectivity by fleet in 2010



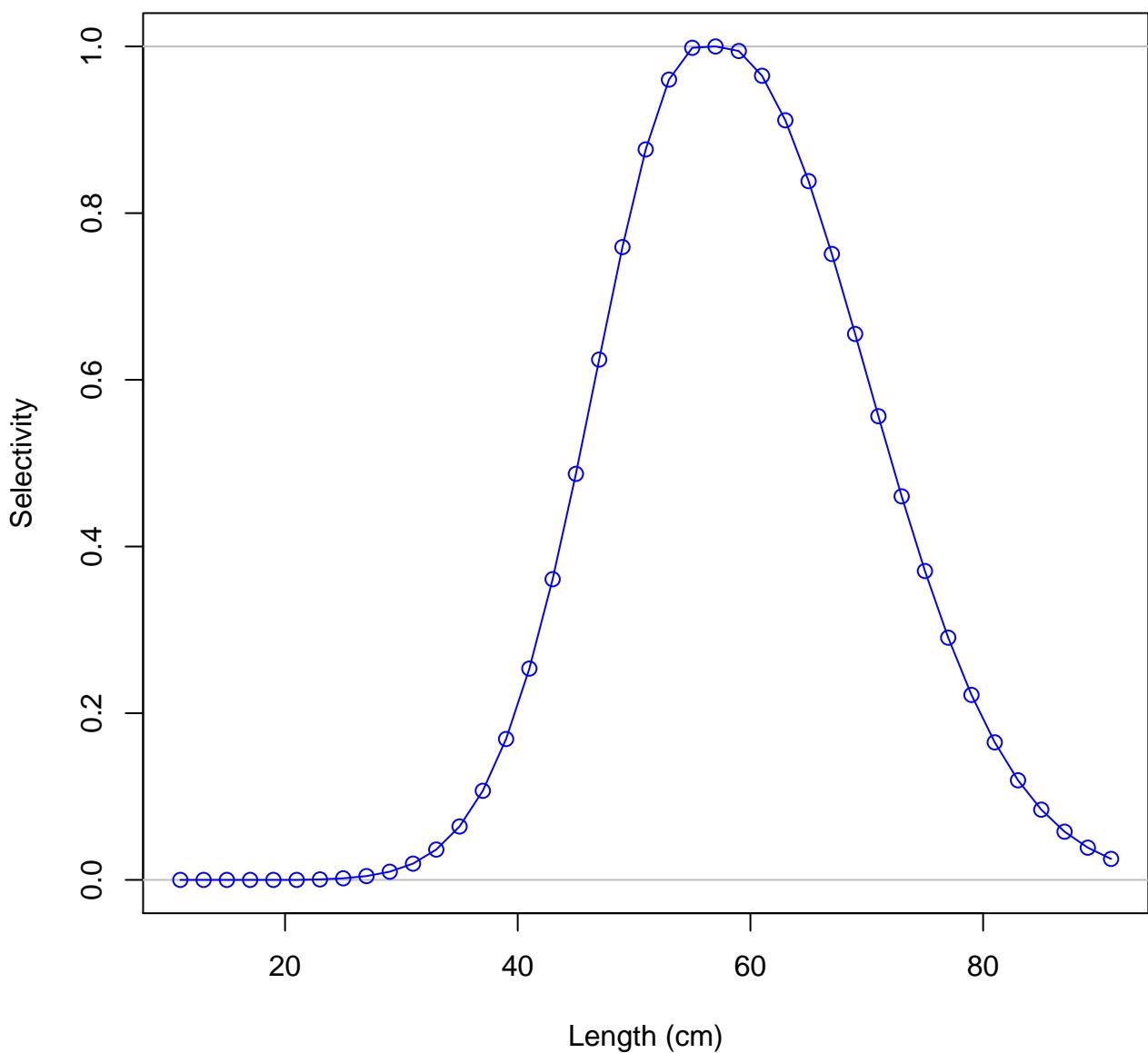
Age-based selectivity by fleet in 2010



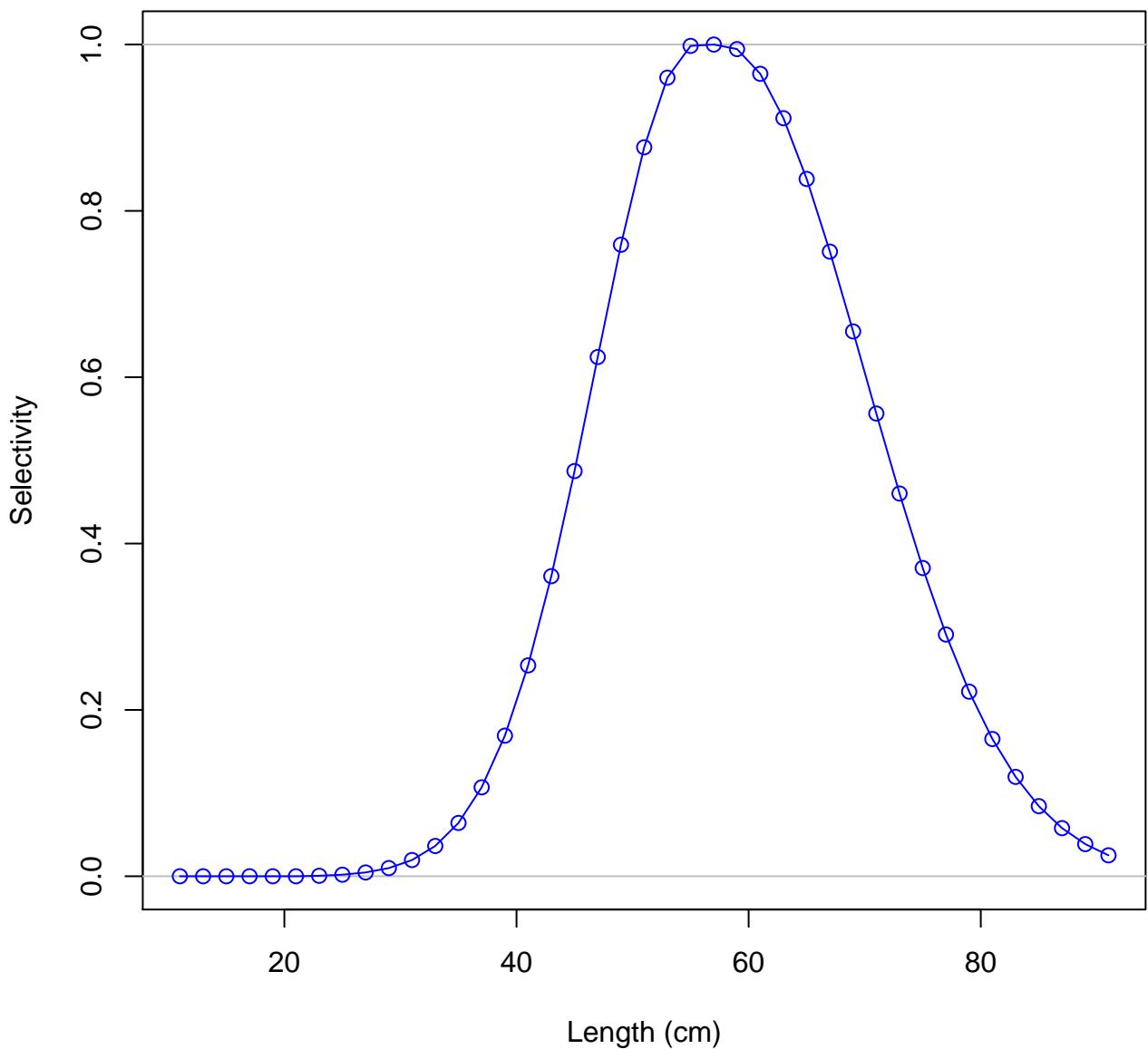
Derived age-based from length-based selectivity by fleet in 2010



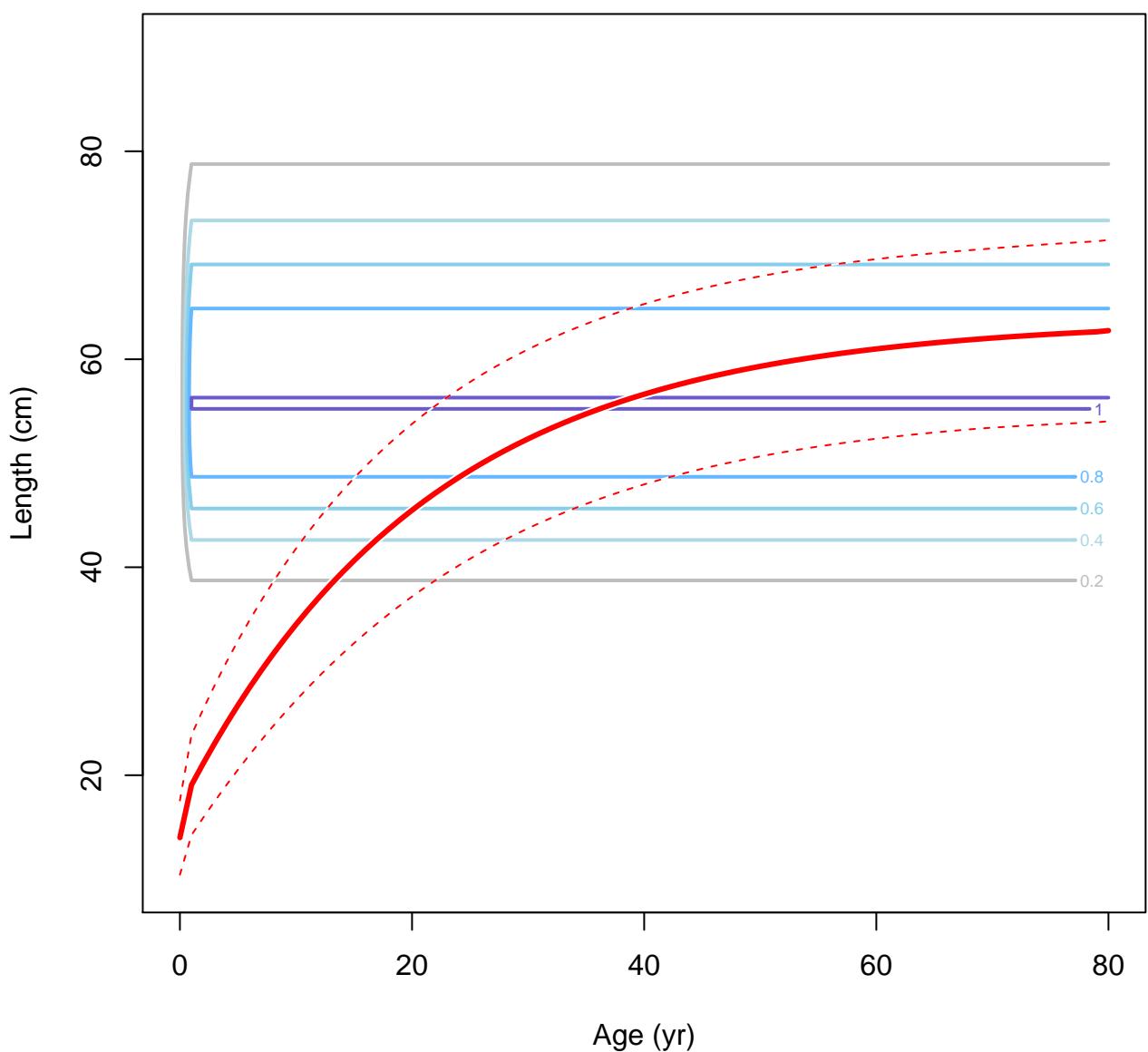
Female ending year selectivity for fishery1



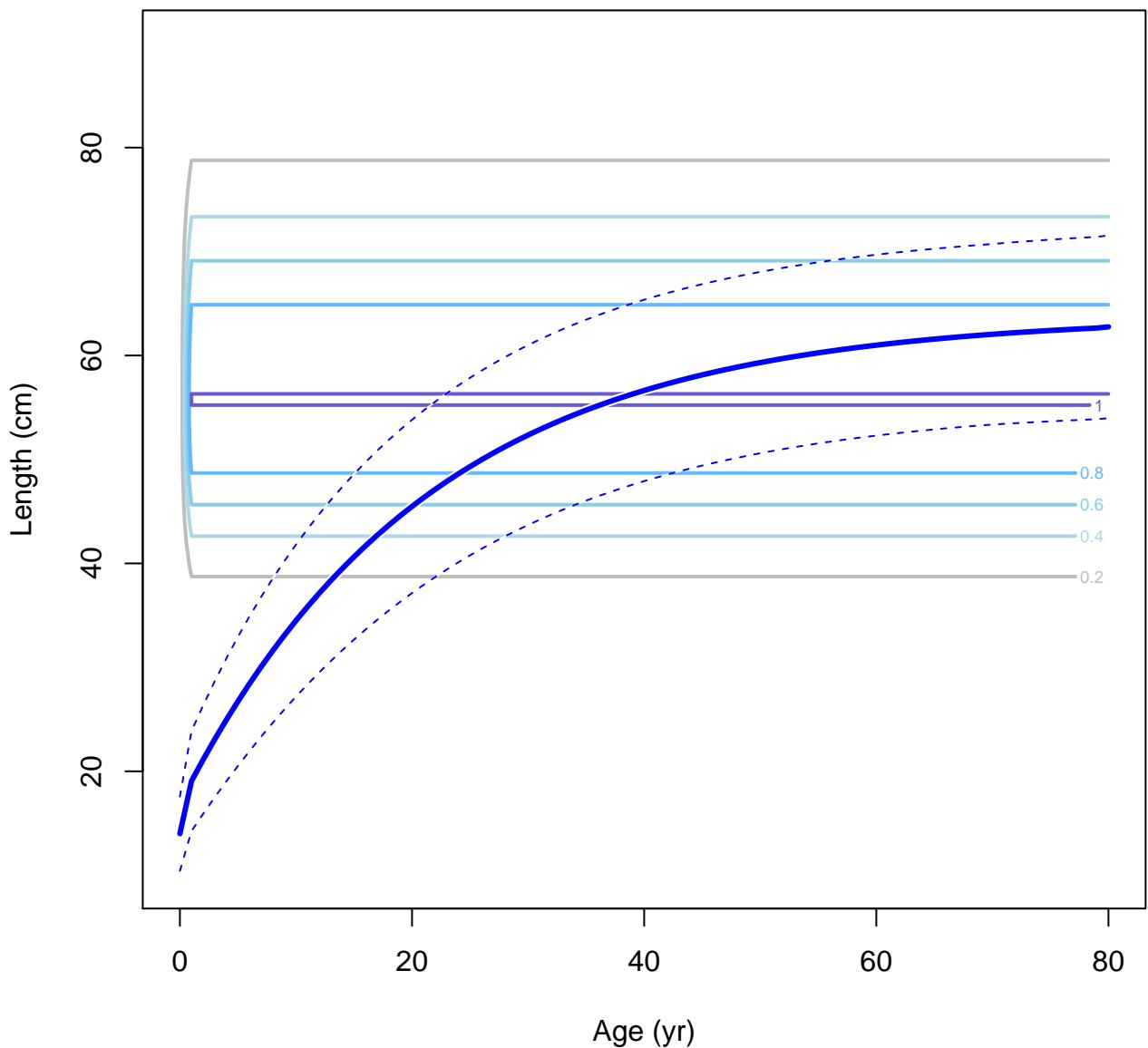
Male ending year selectivity for fishery1



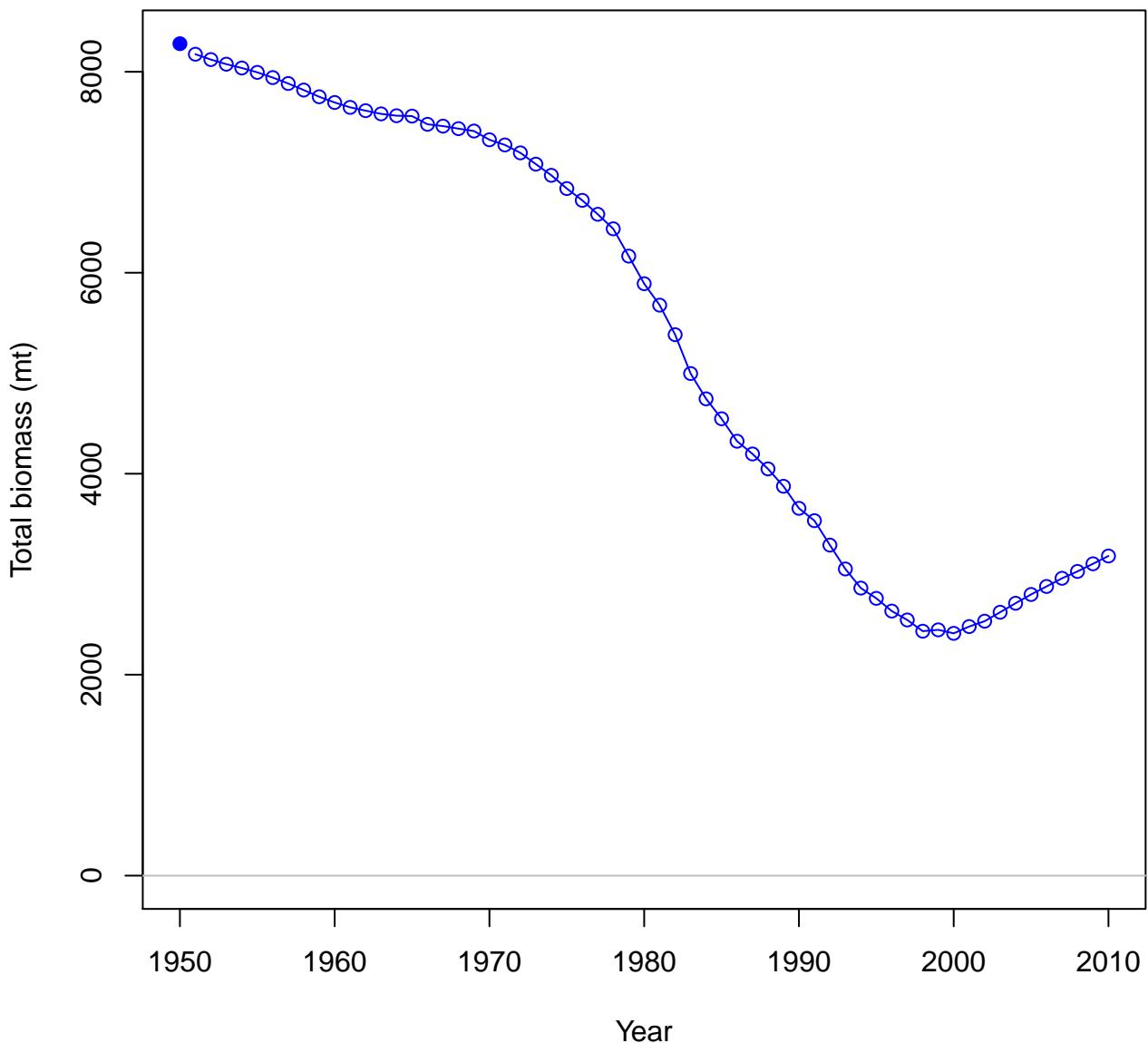
Female ending year selectivity and growth for fishery1



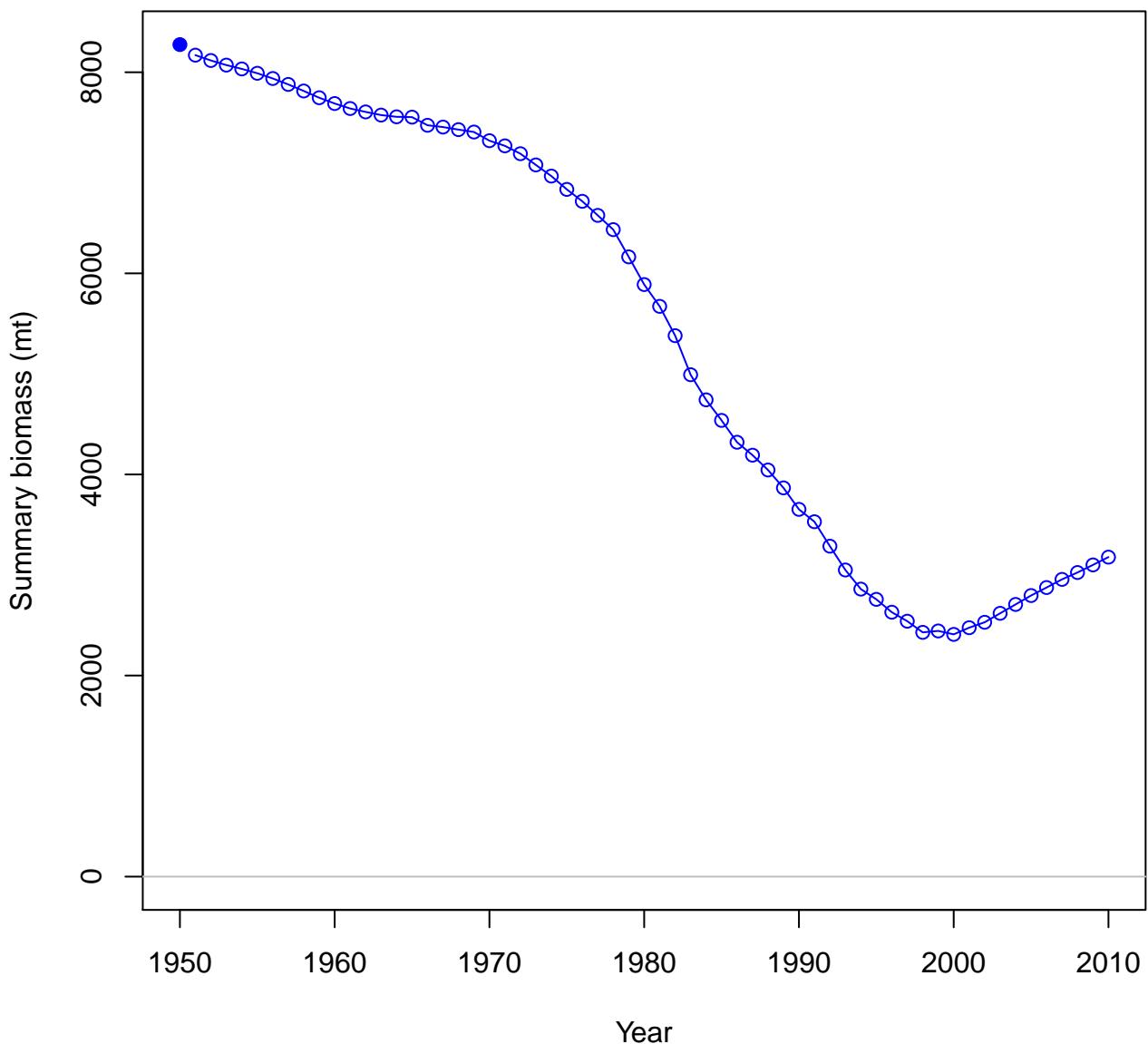
Male ending year selectivity and growth for fishery1



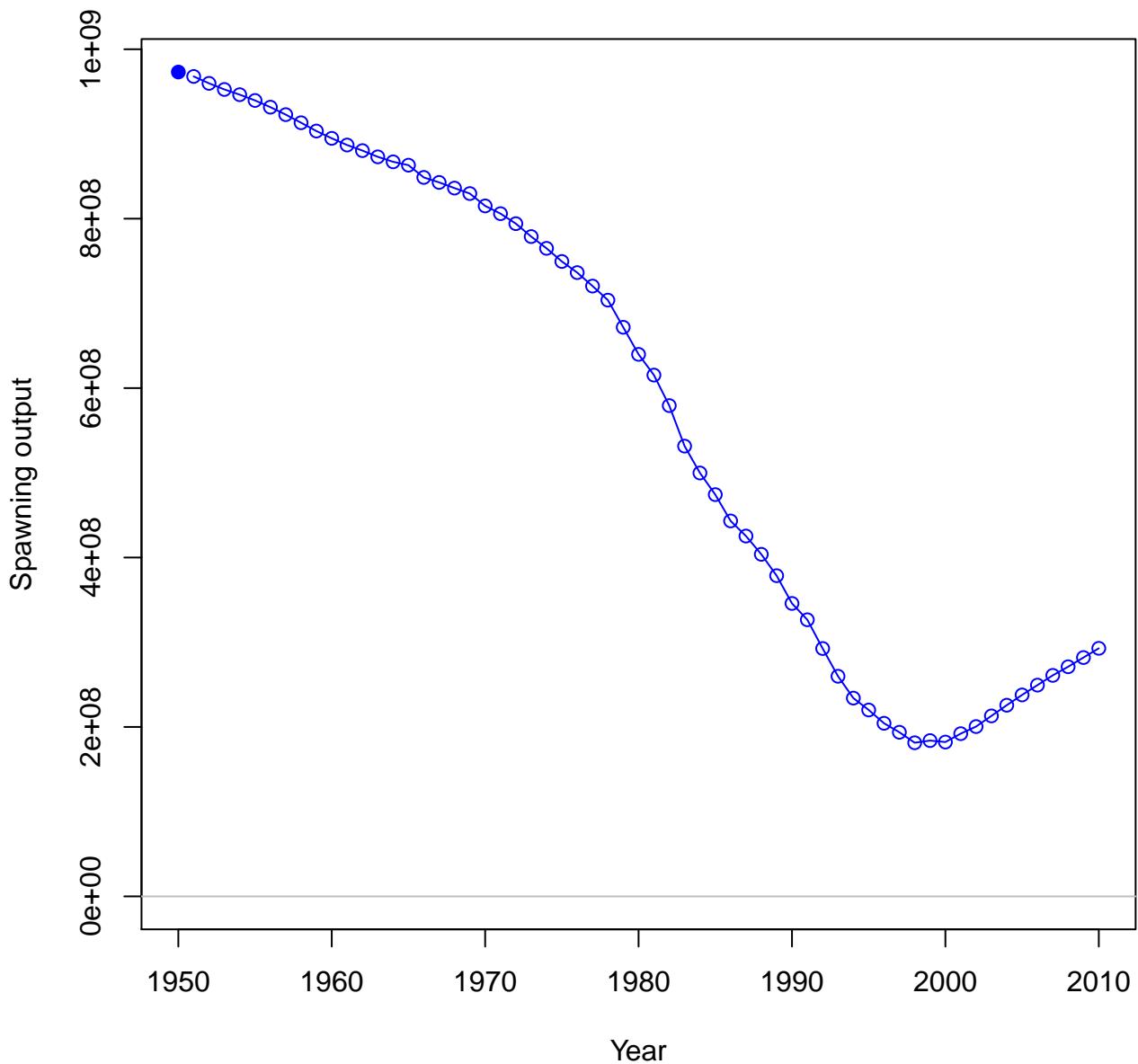
Total biomass (mt)



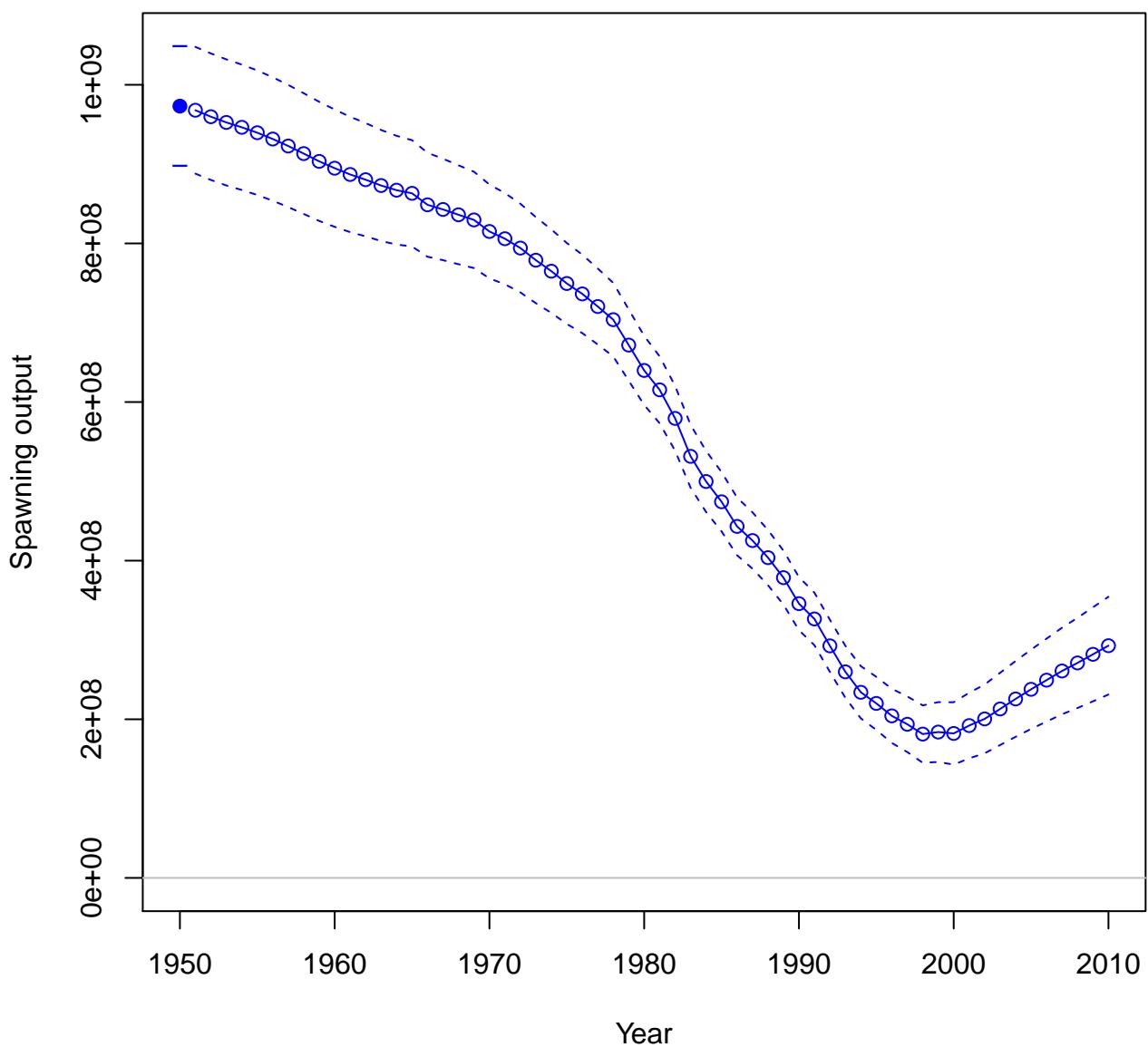
Summary biomass (mt)



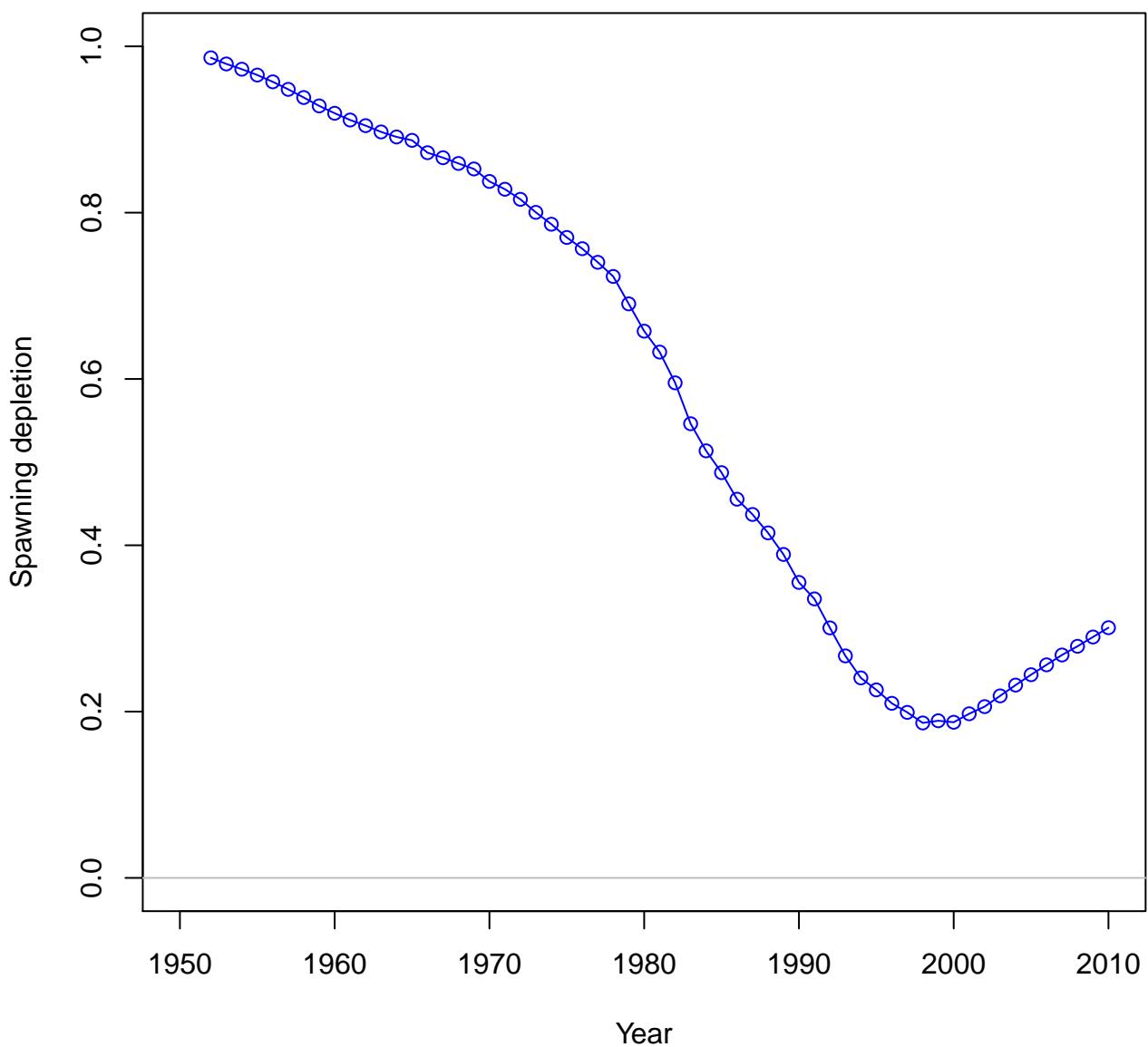
Spawning output



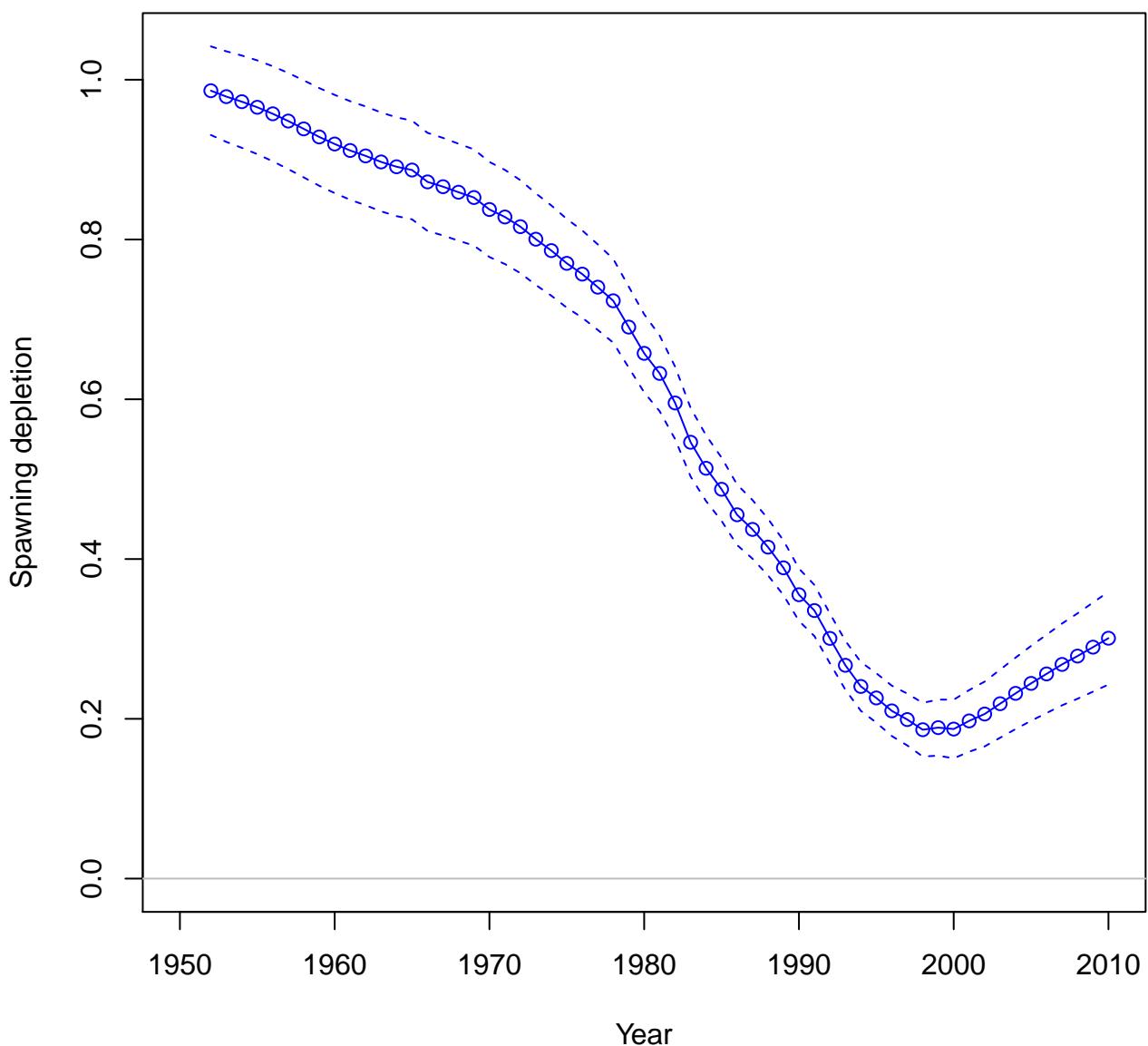
Spawning output with ~95% asymptotic intervals



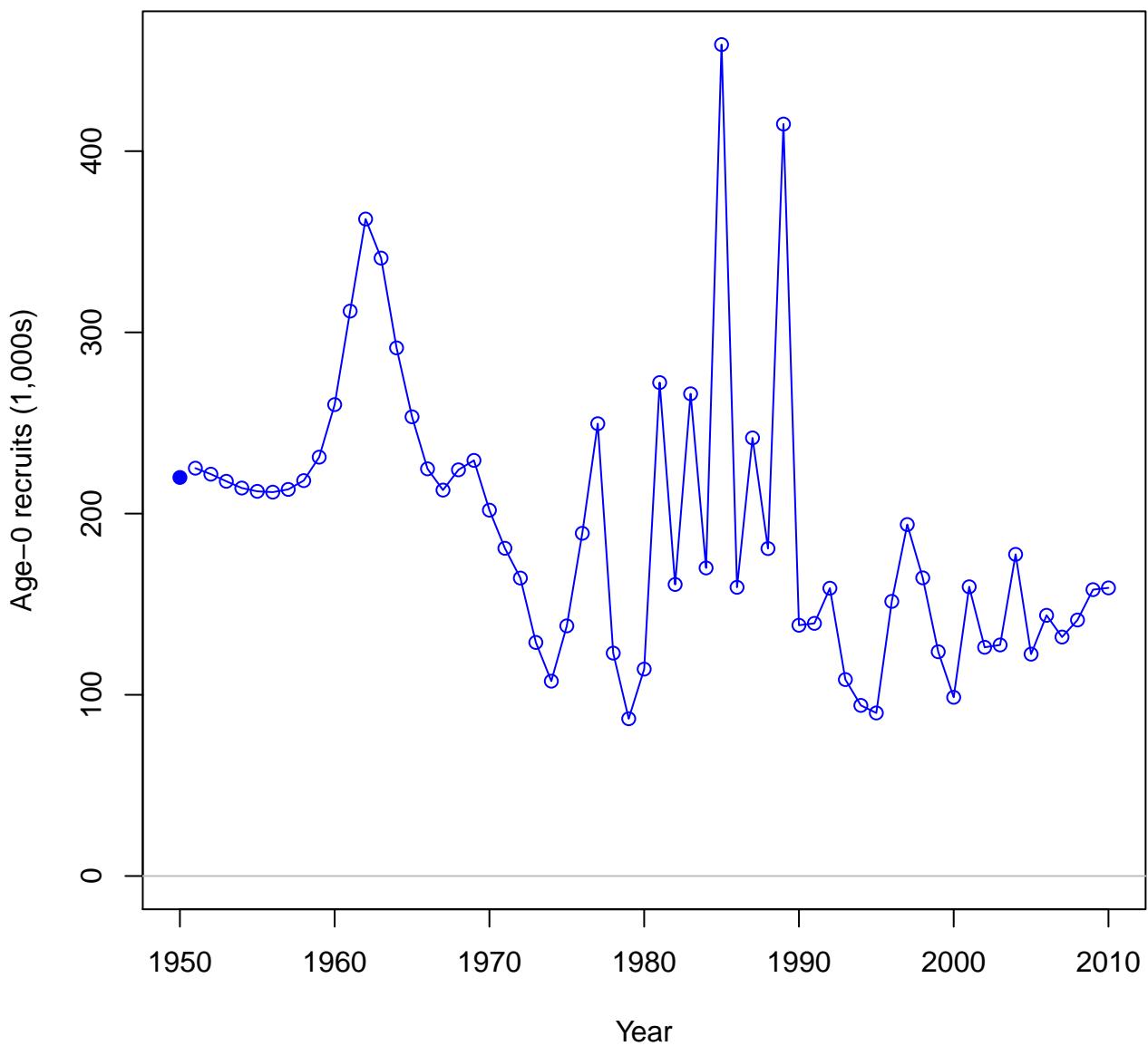
Spawning depletion



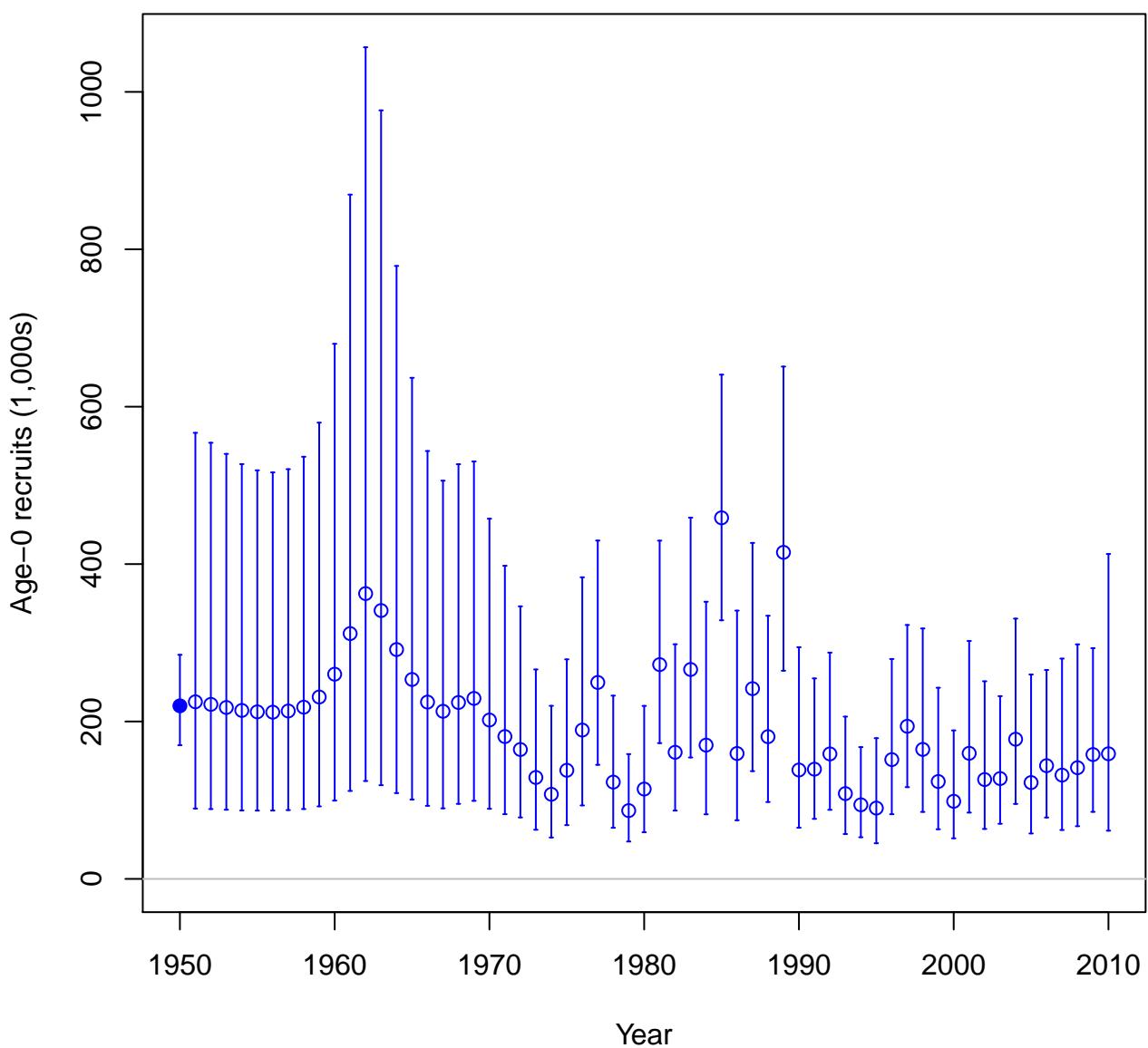
Spawning depletion with ~95% asymptotic intervals

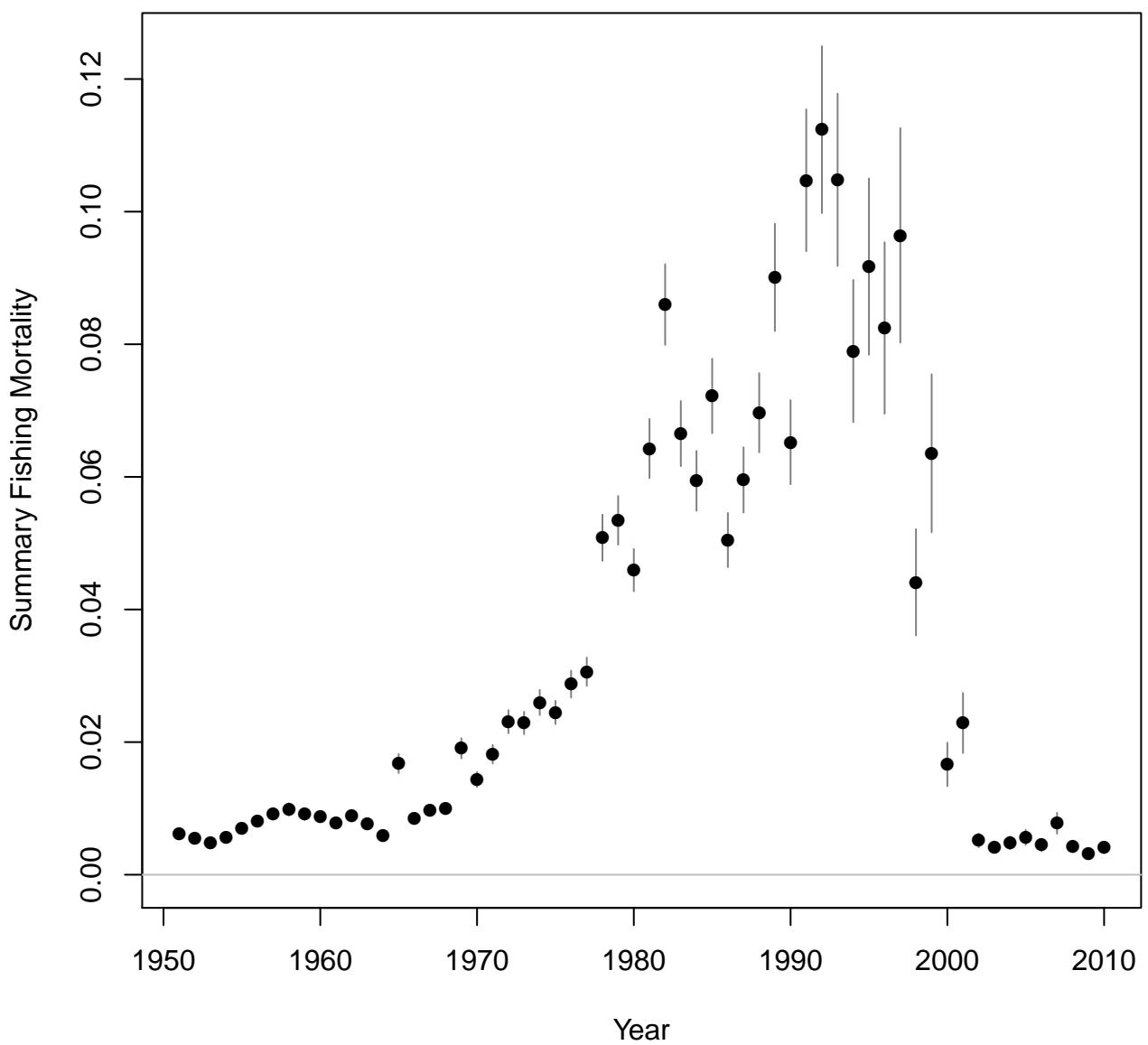


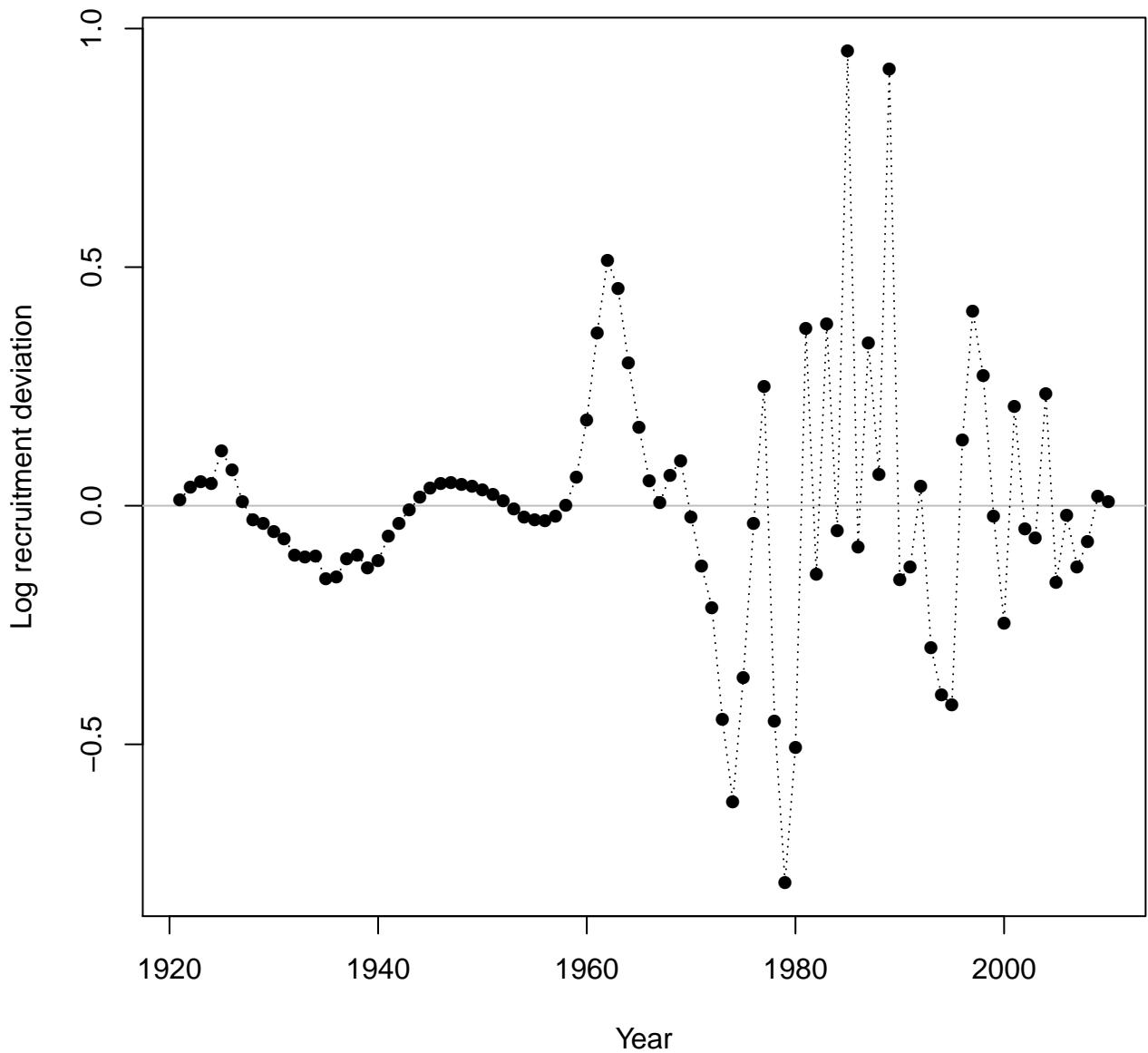
Age-0 recruits (1,000s)

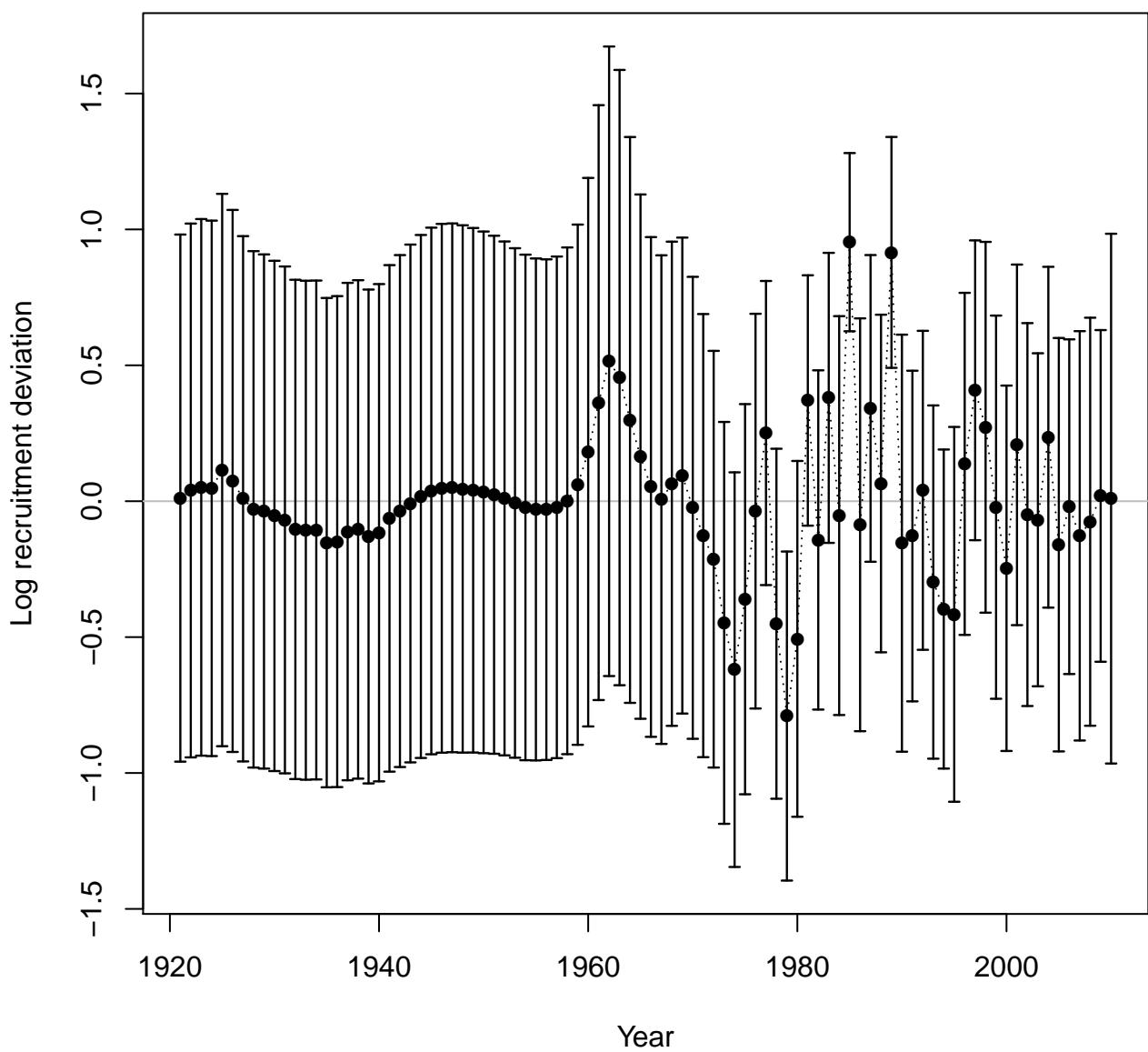


Age-0 recruits (1,000s) with ~95% asymptotic intervals

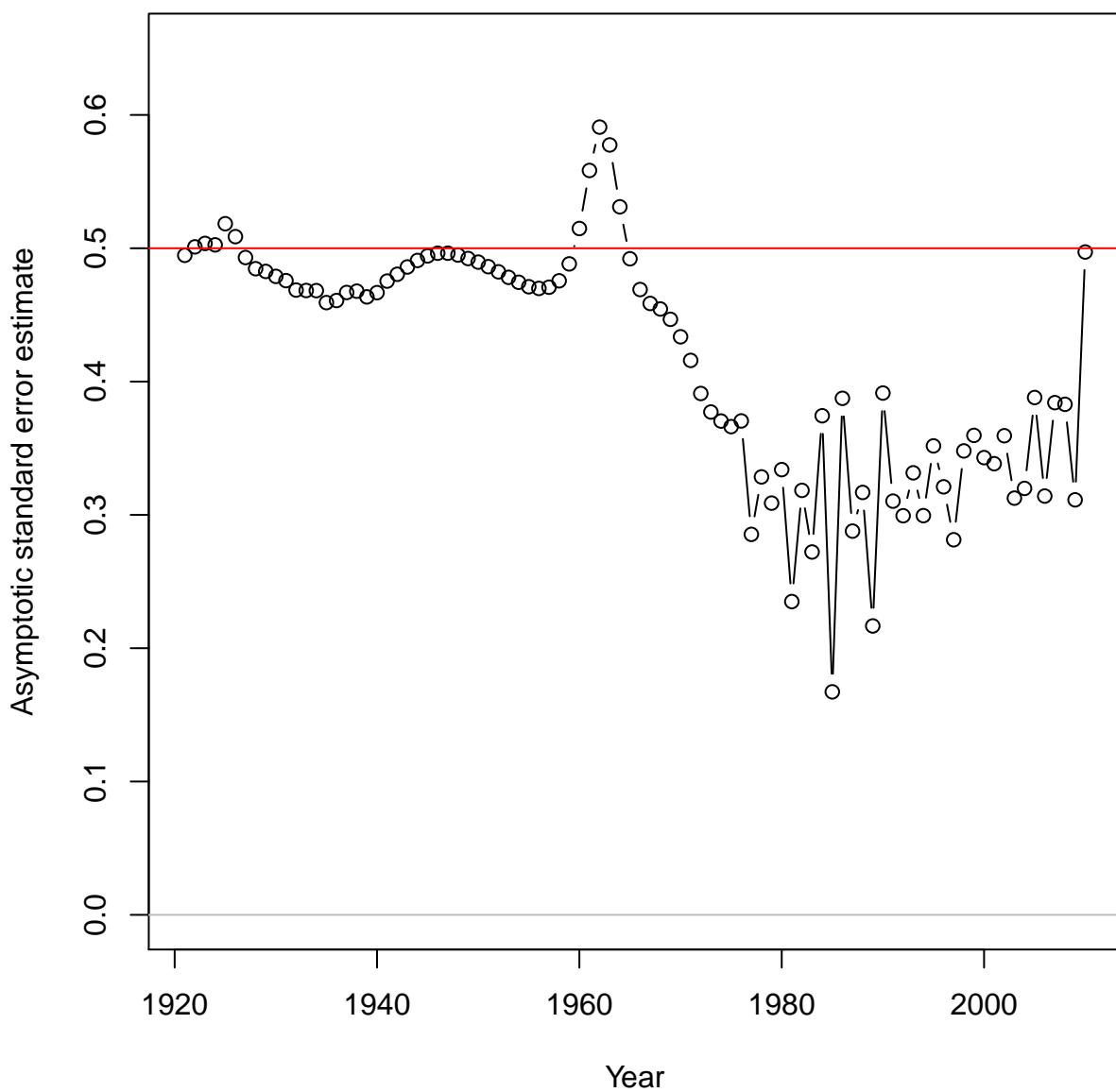


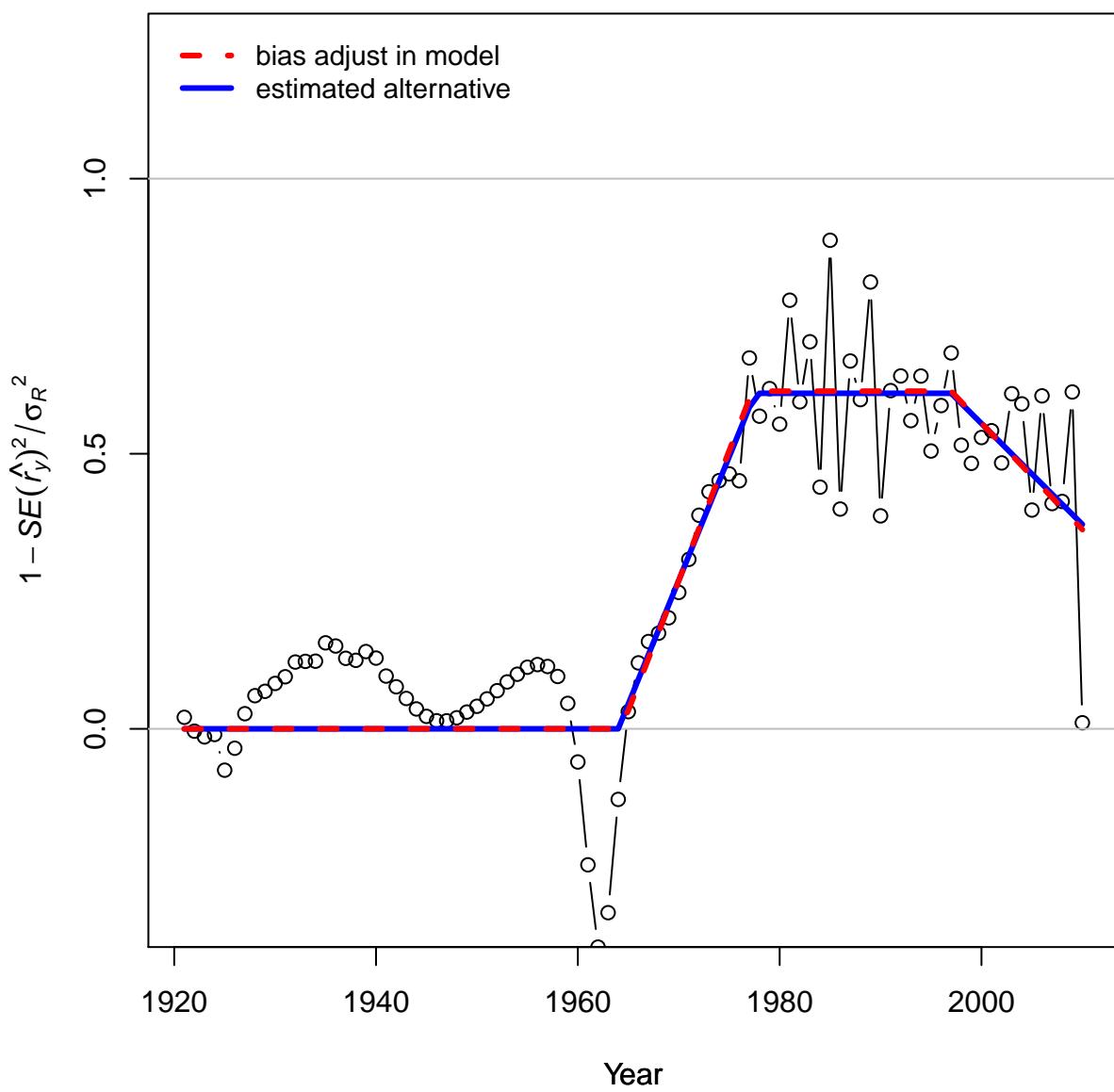


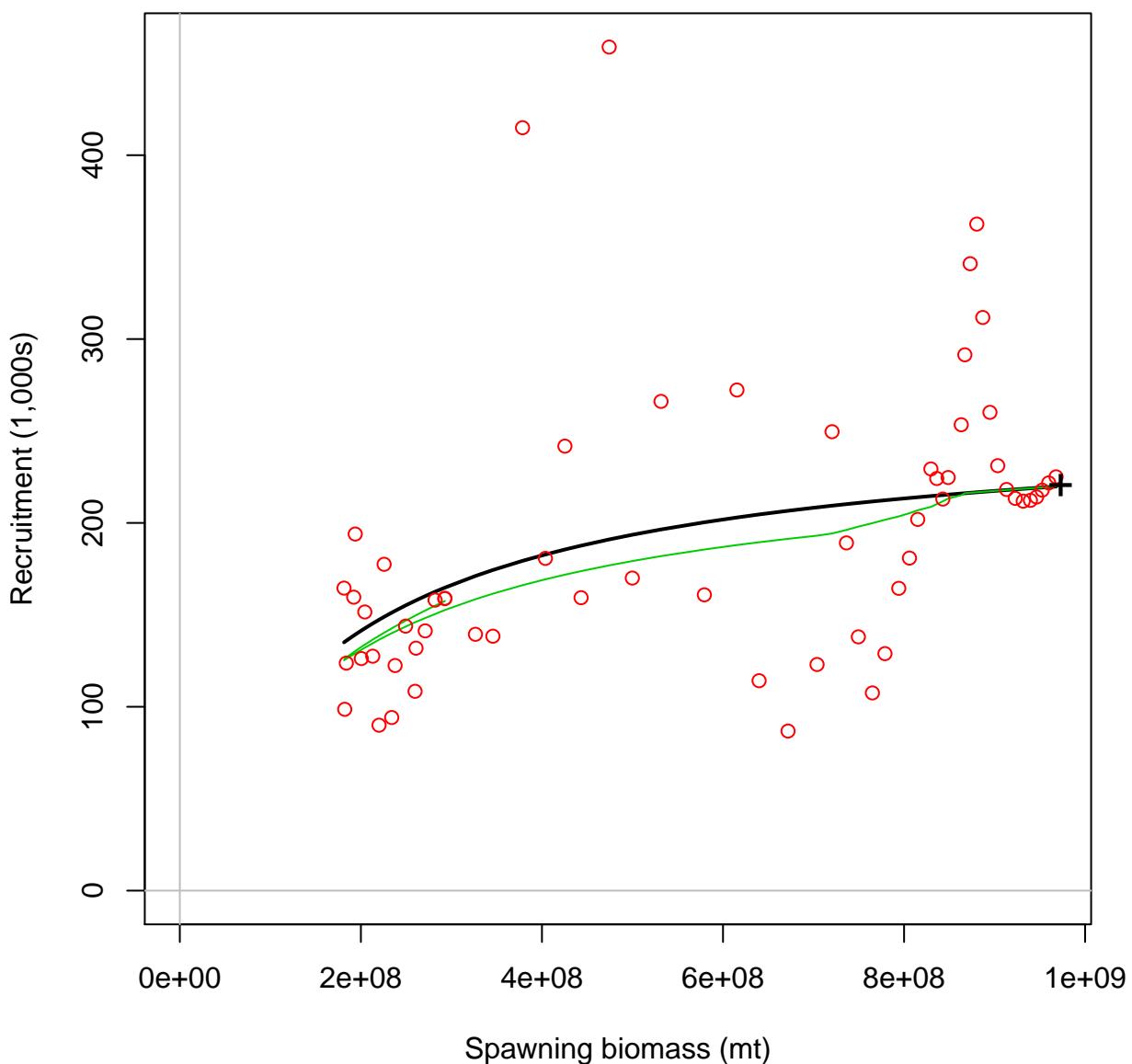


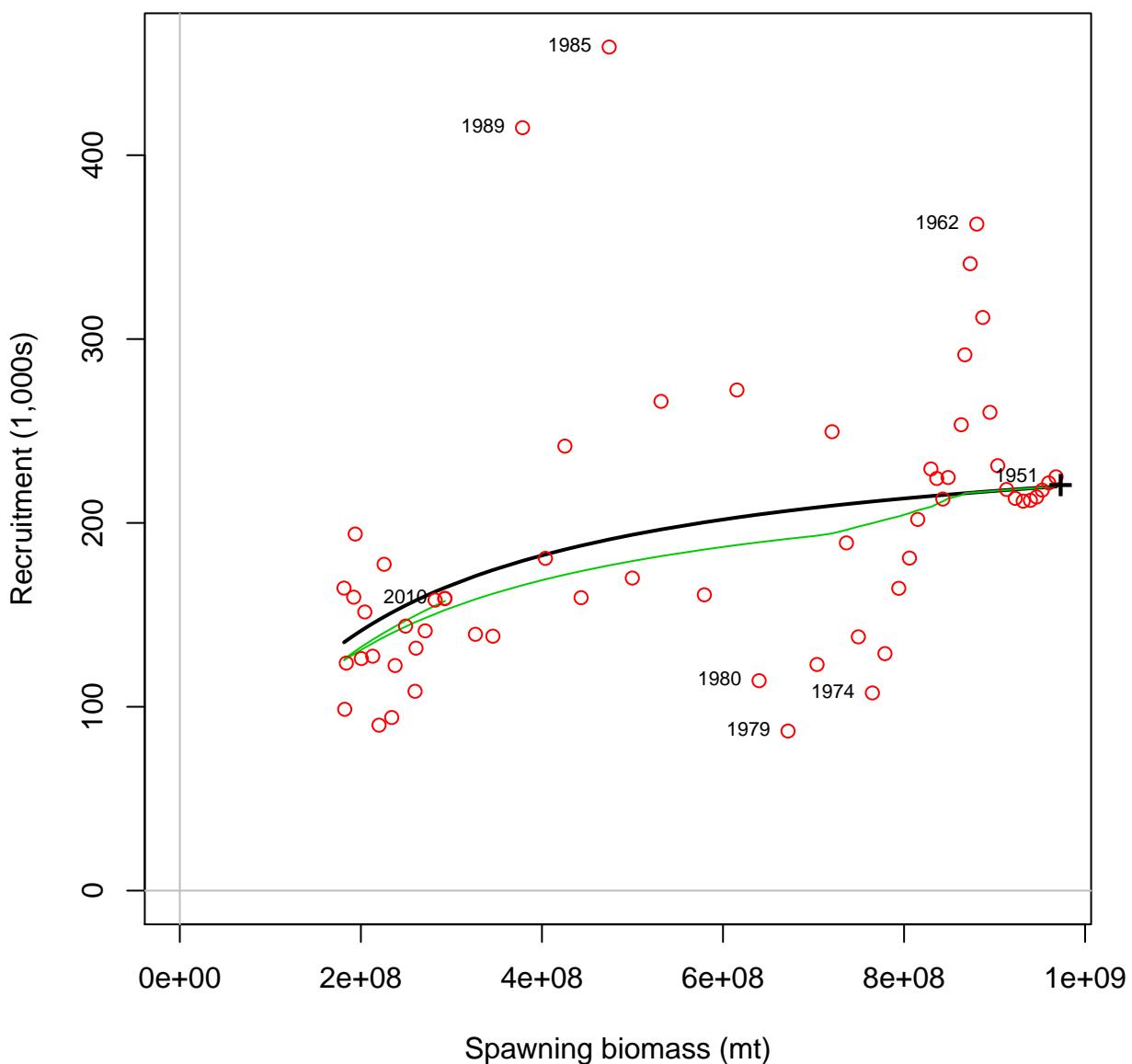


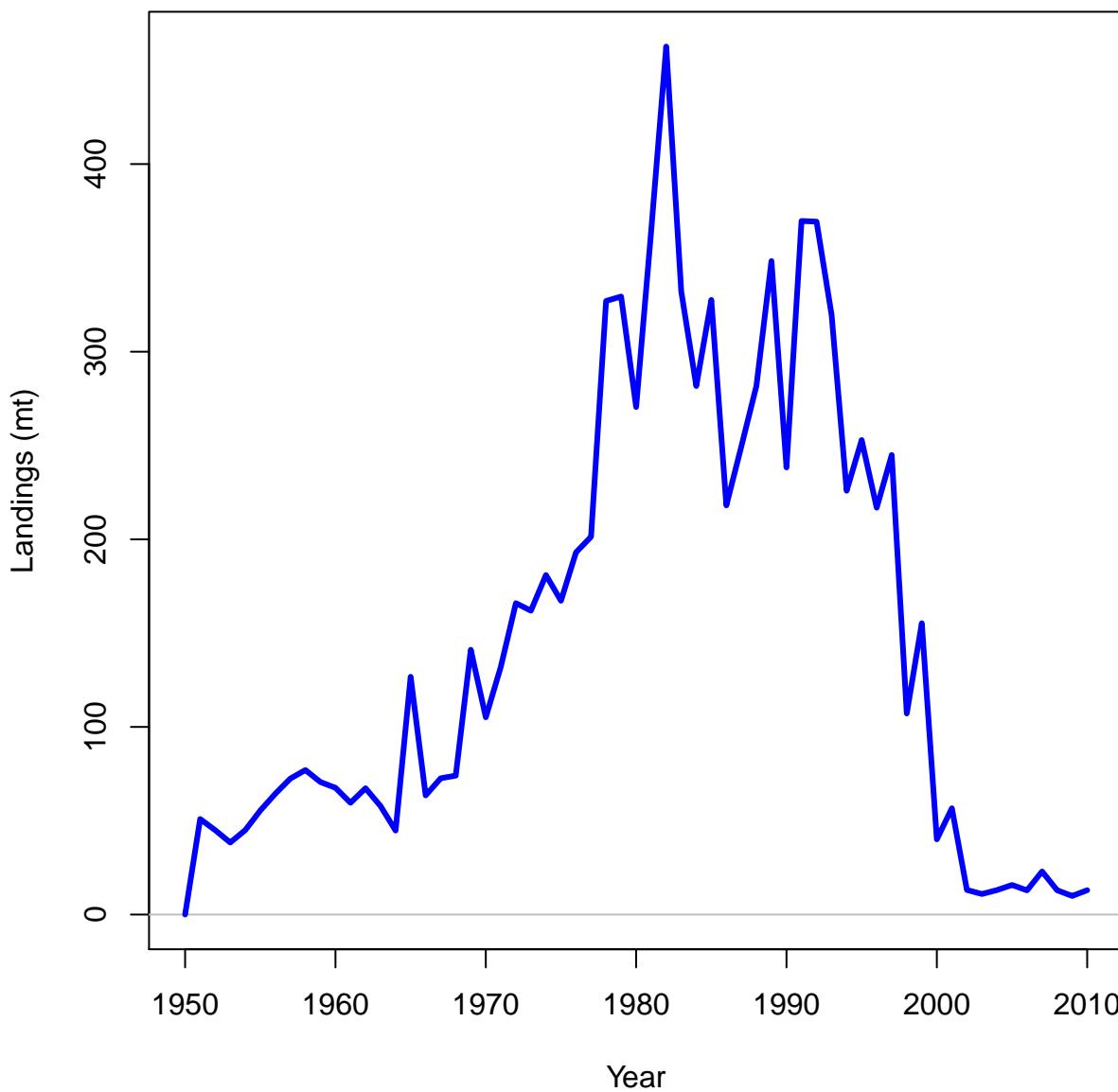
Recruitment deviation variance

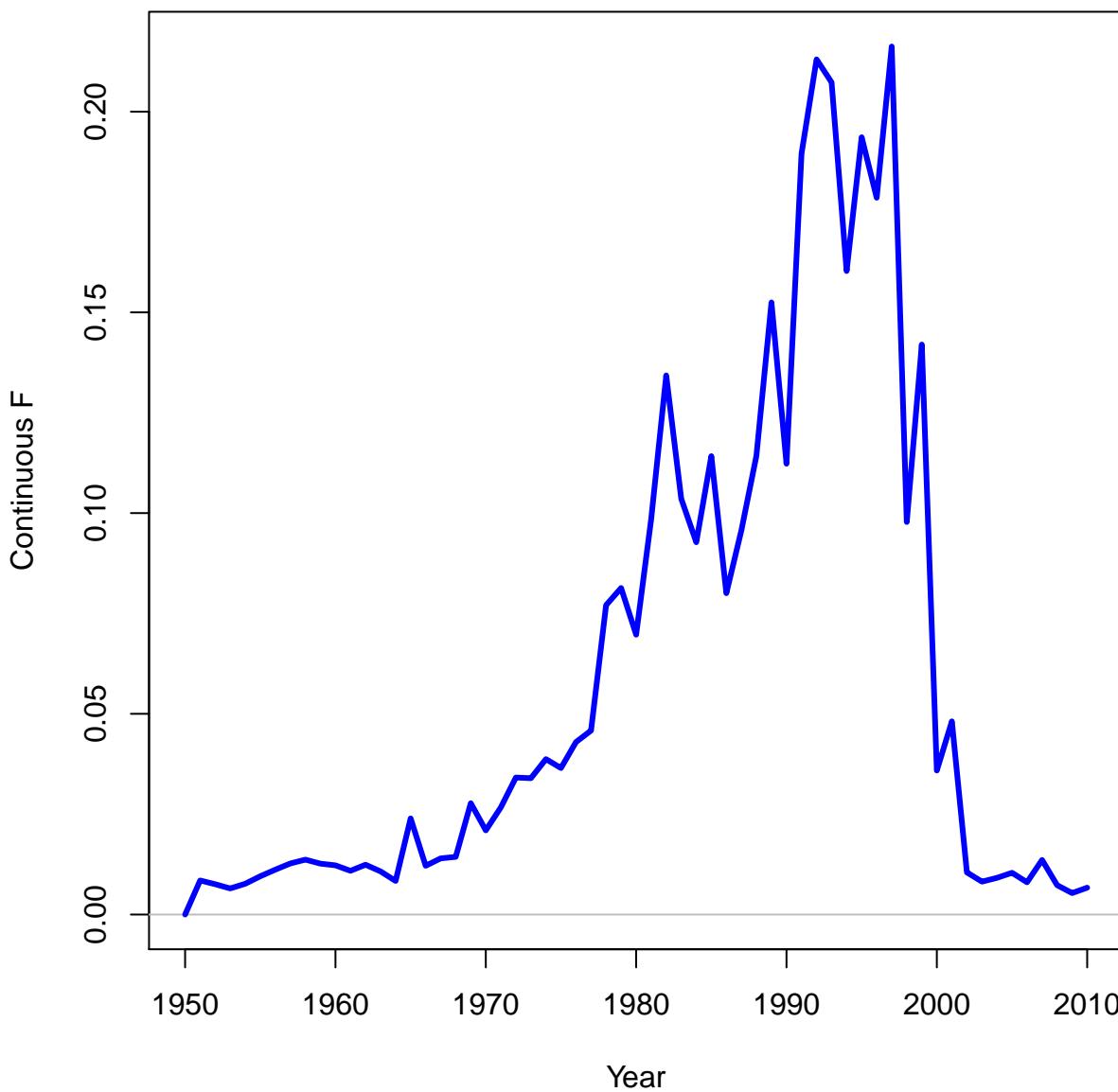


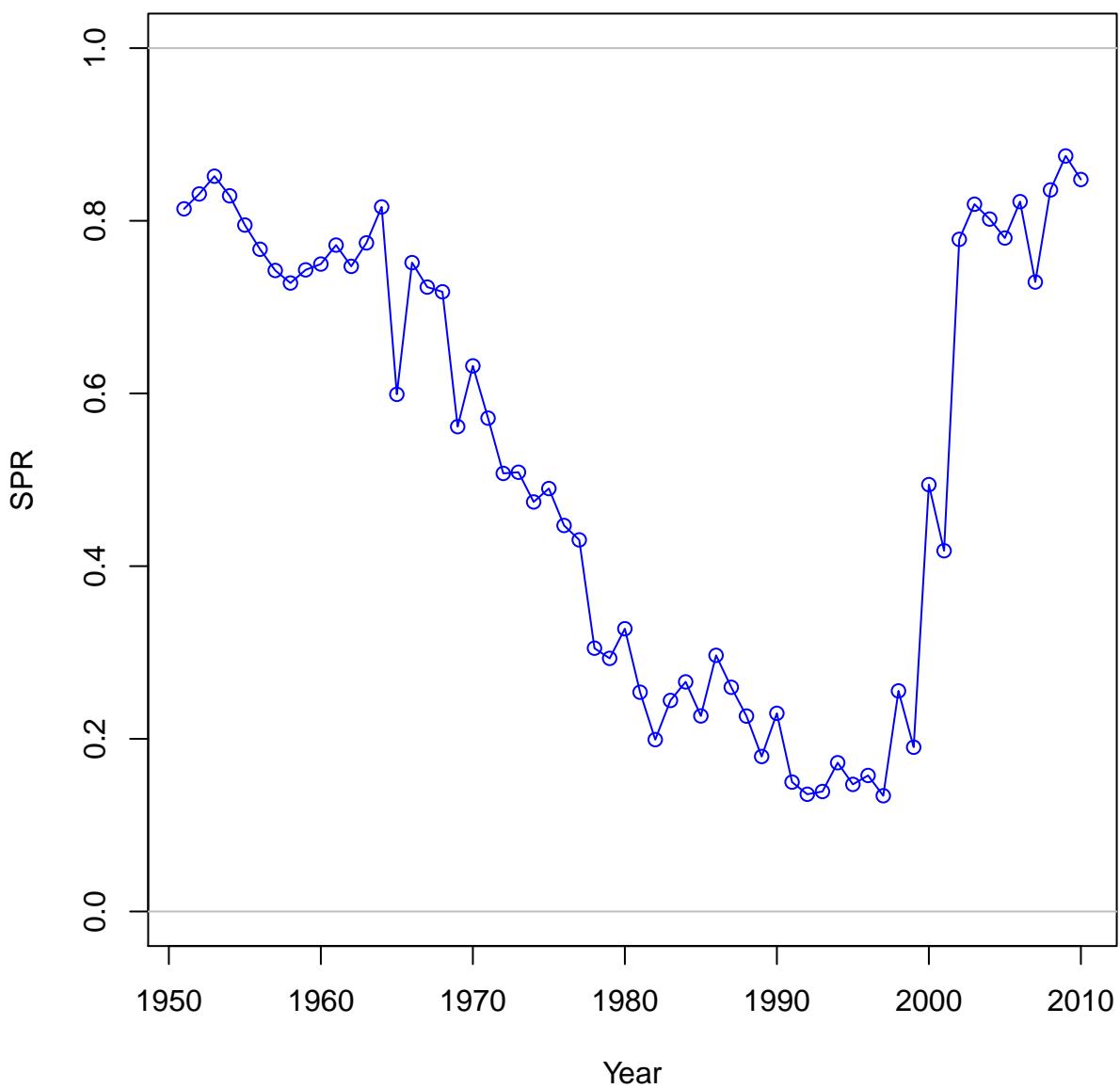


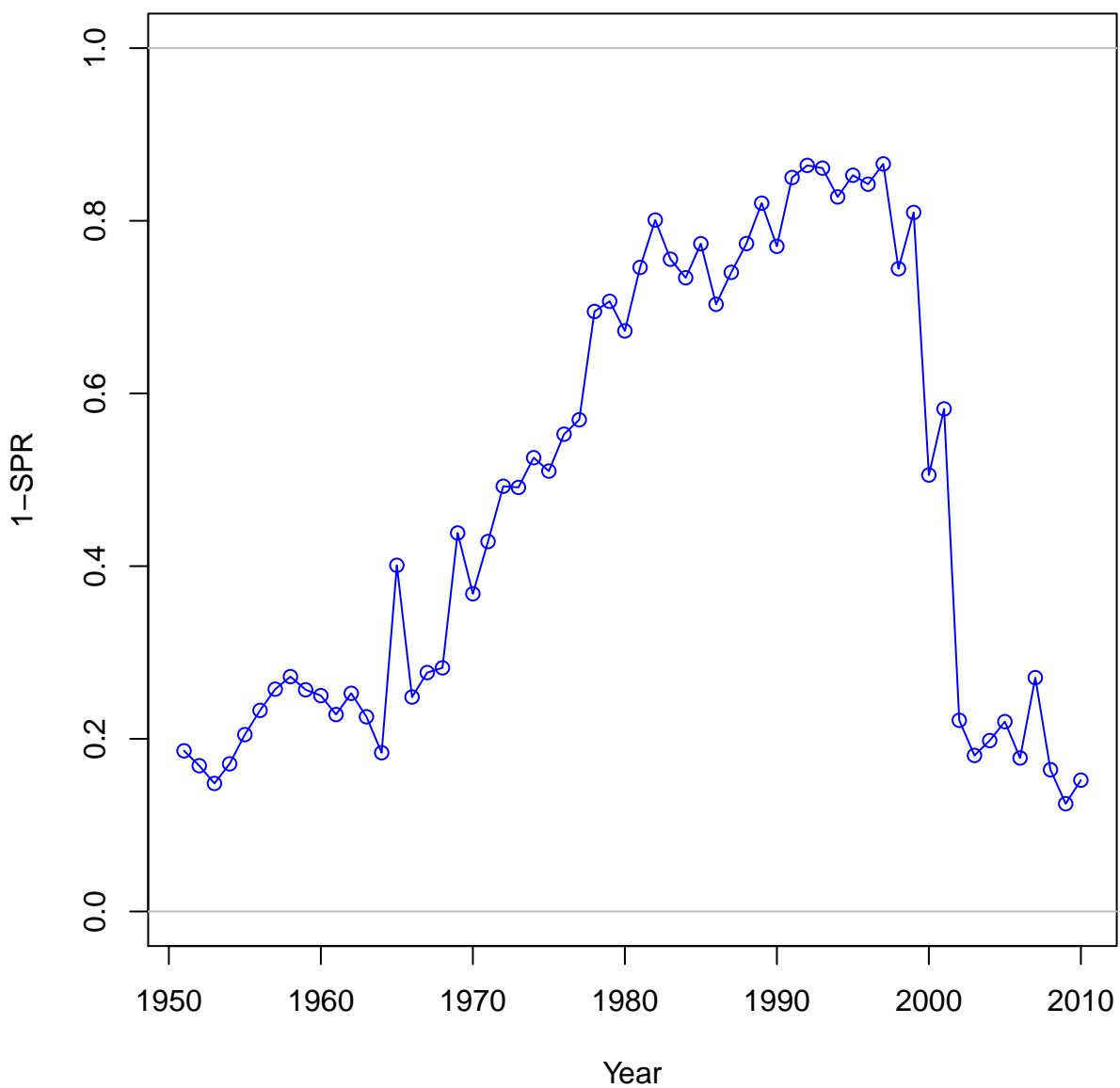




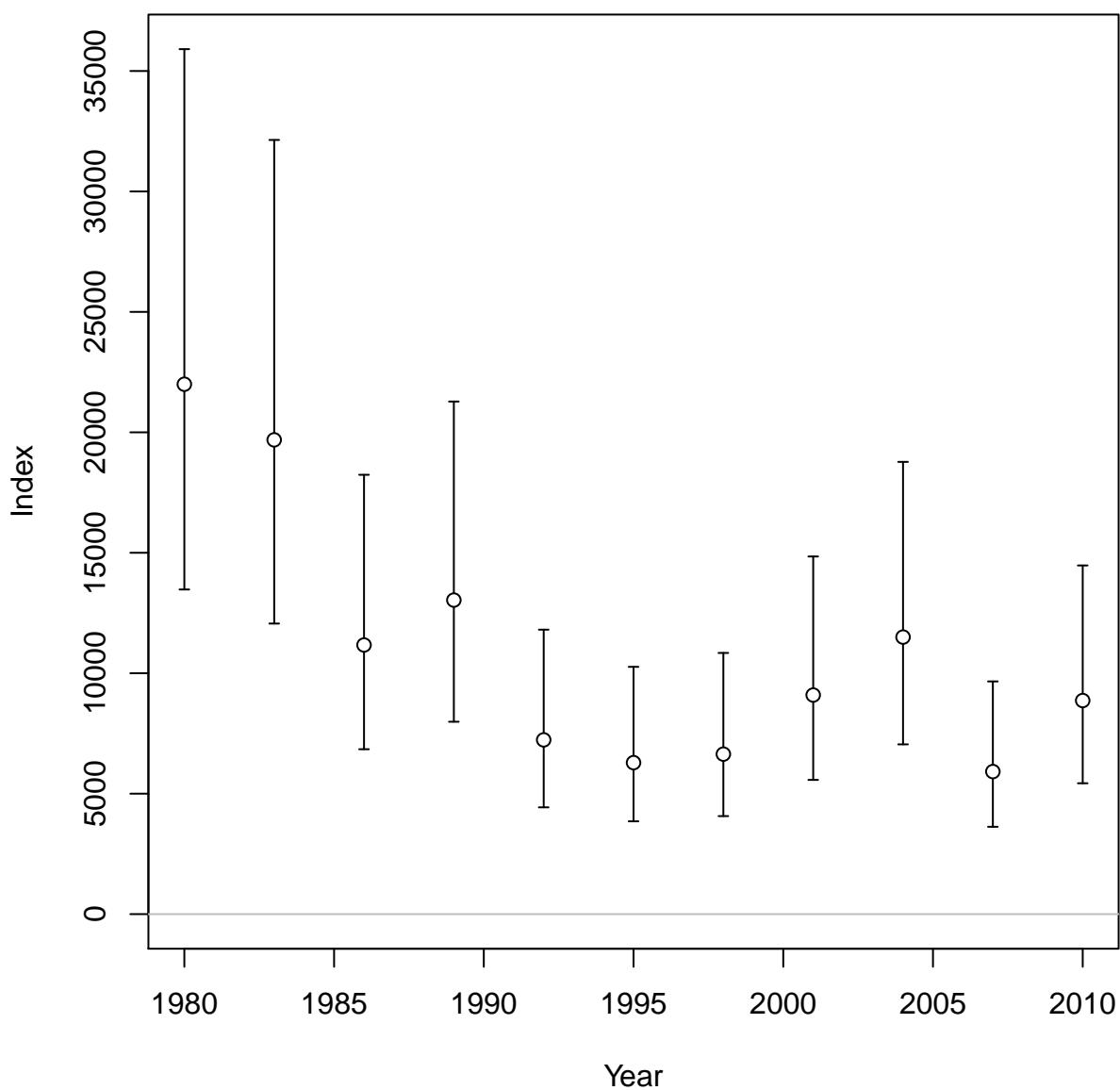




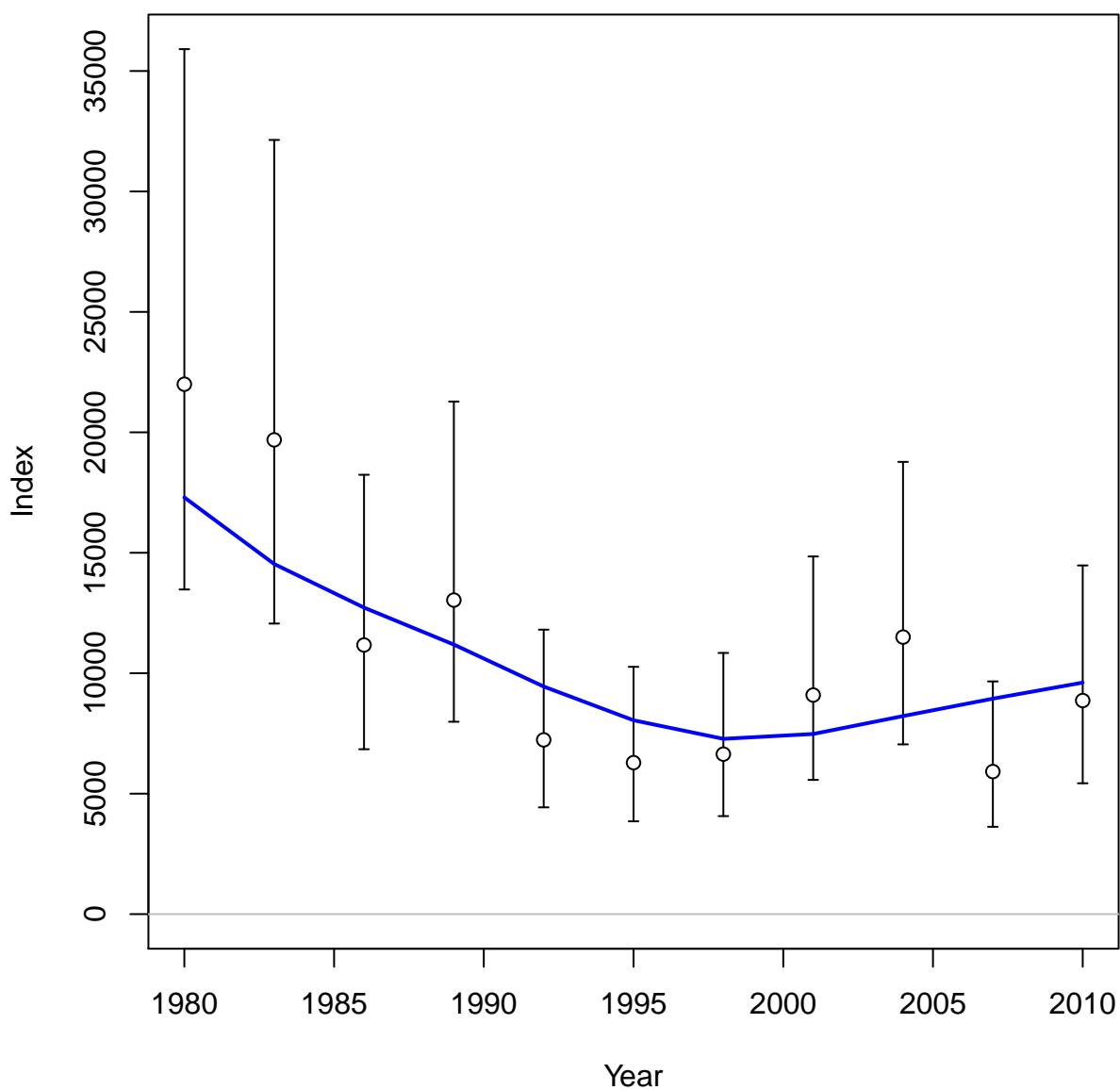




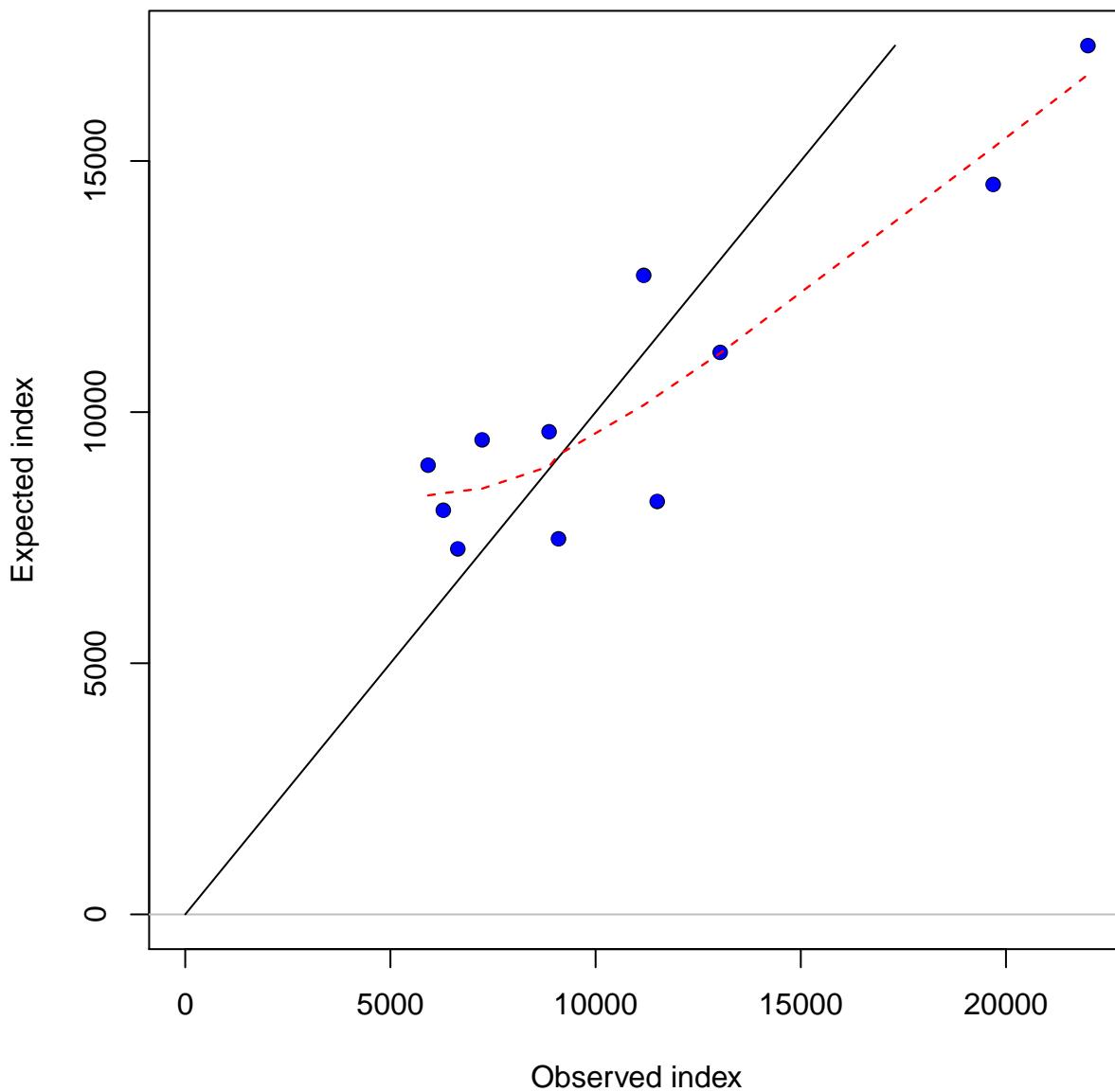
Index survey1



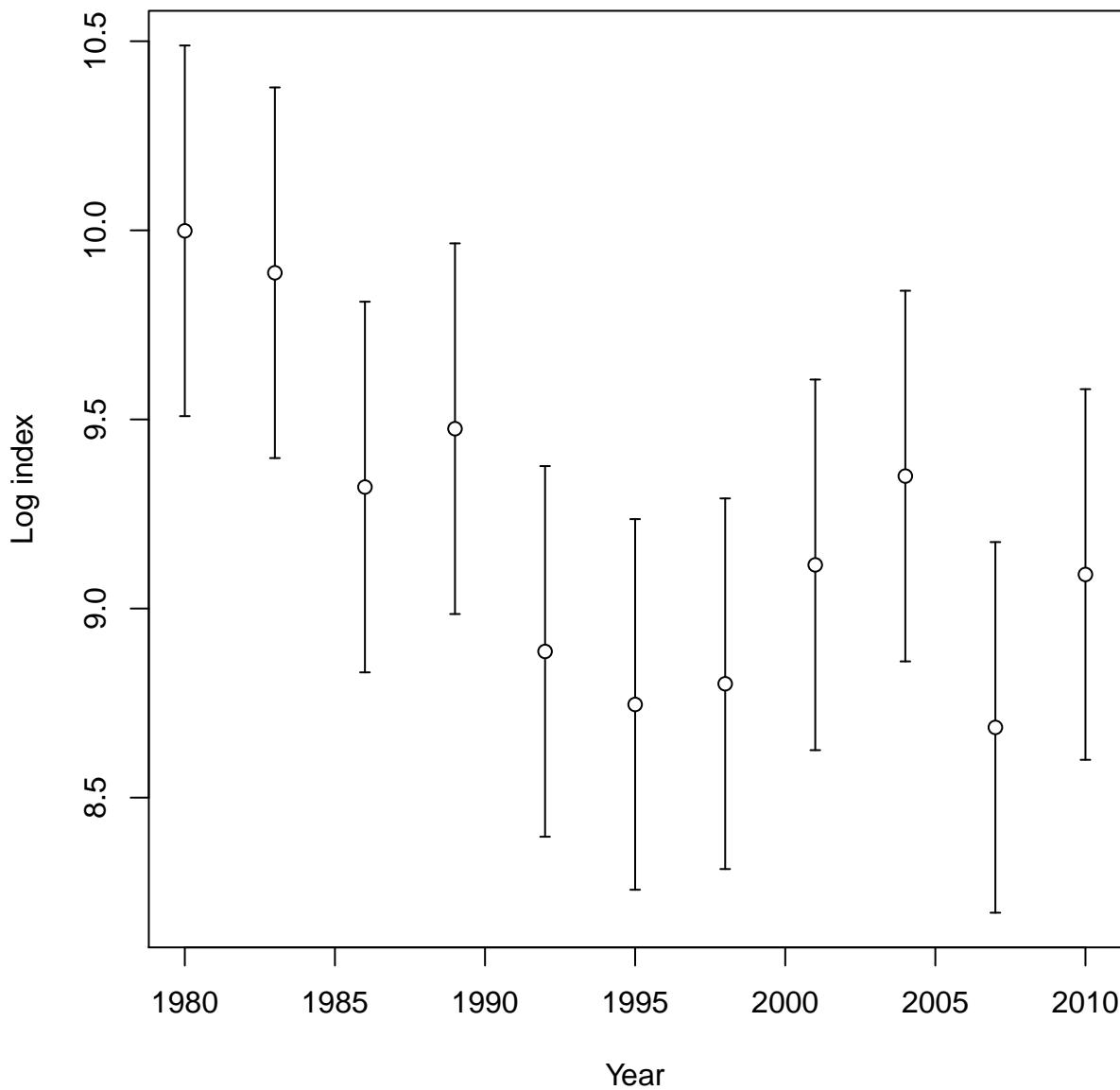
Index survey1



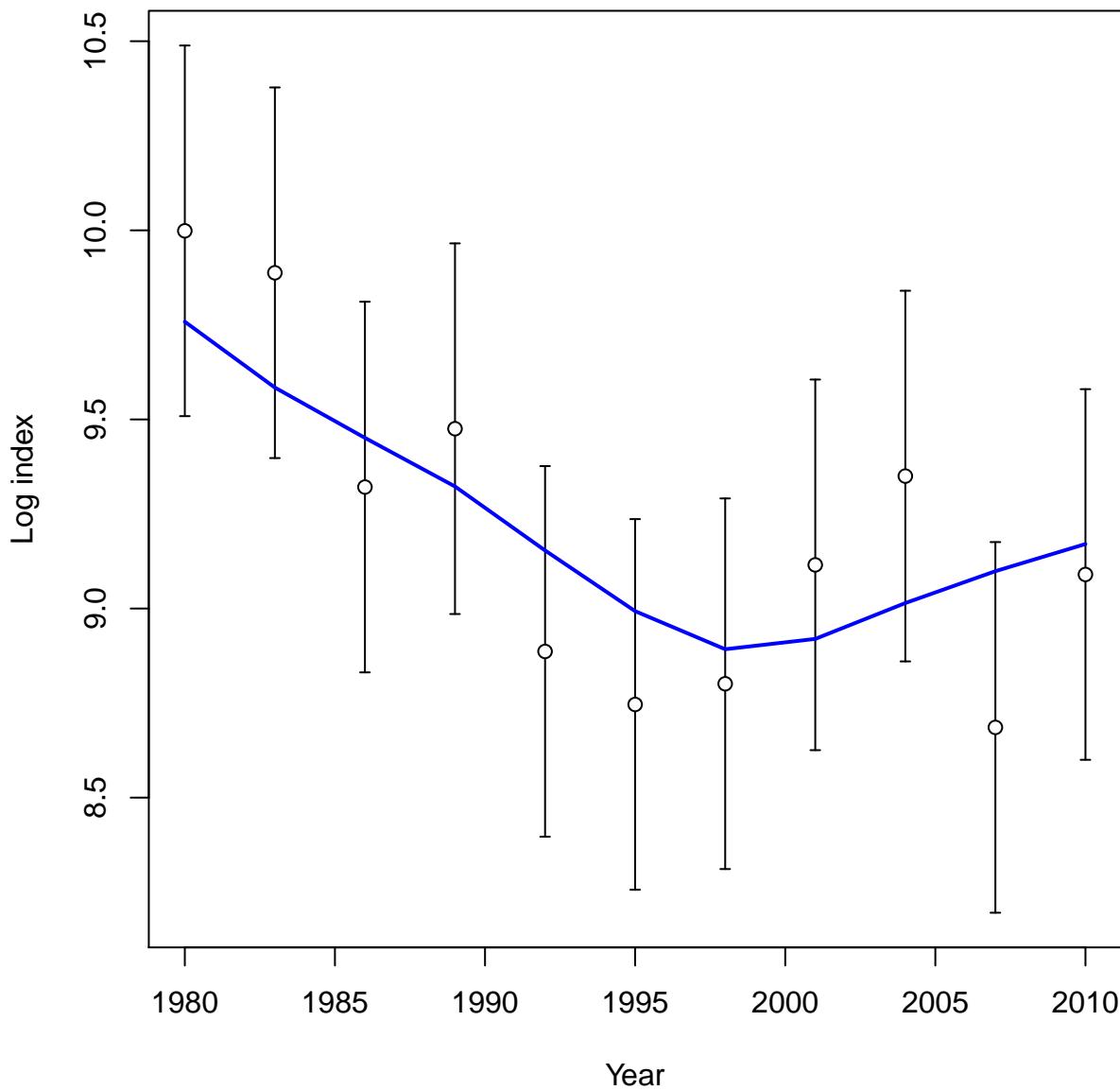
Index survey1



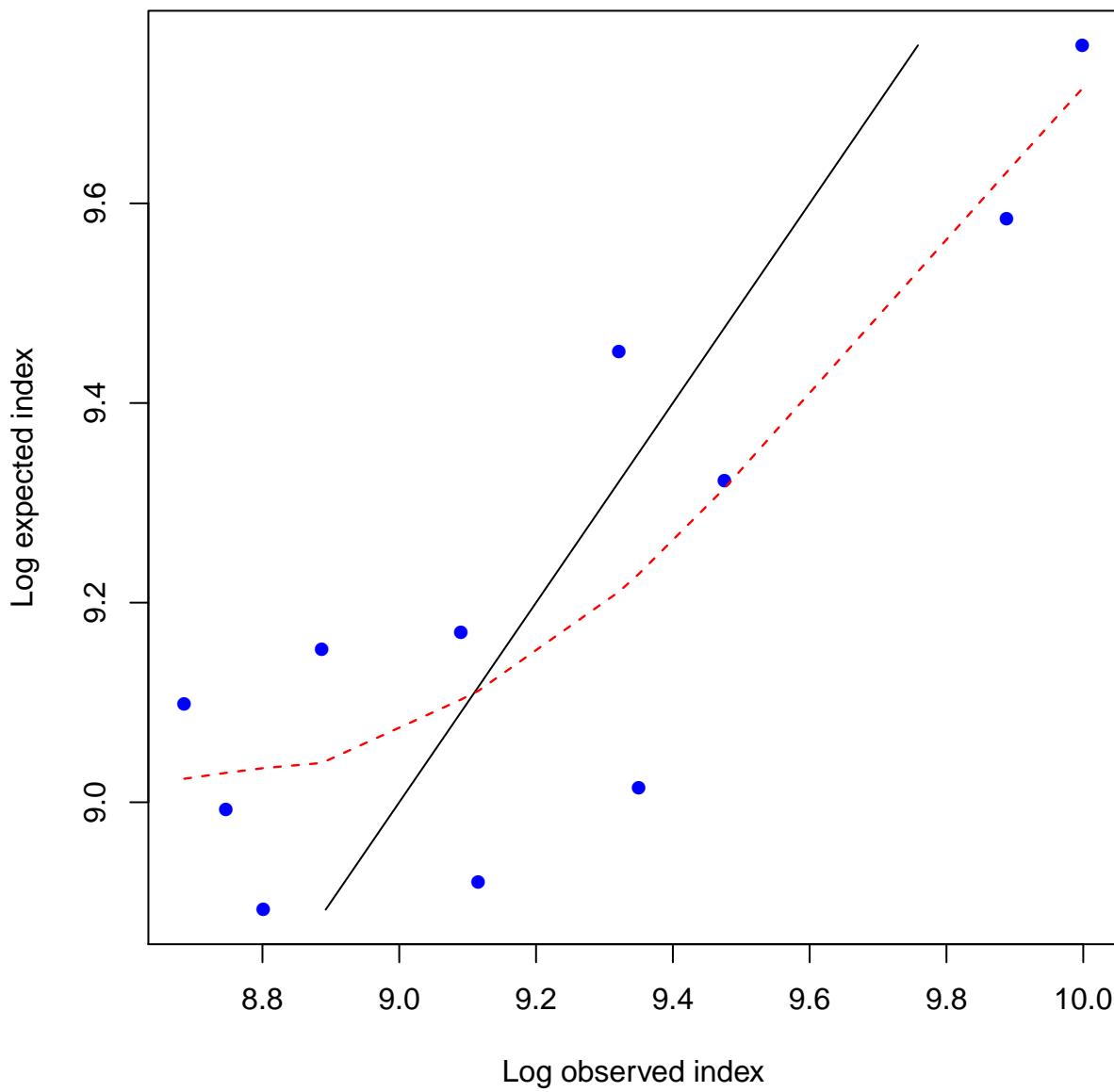
Log index survey1



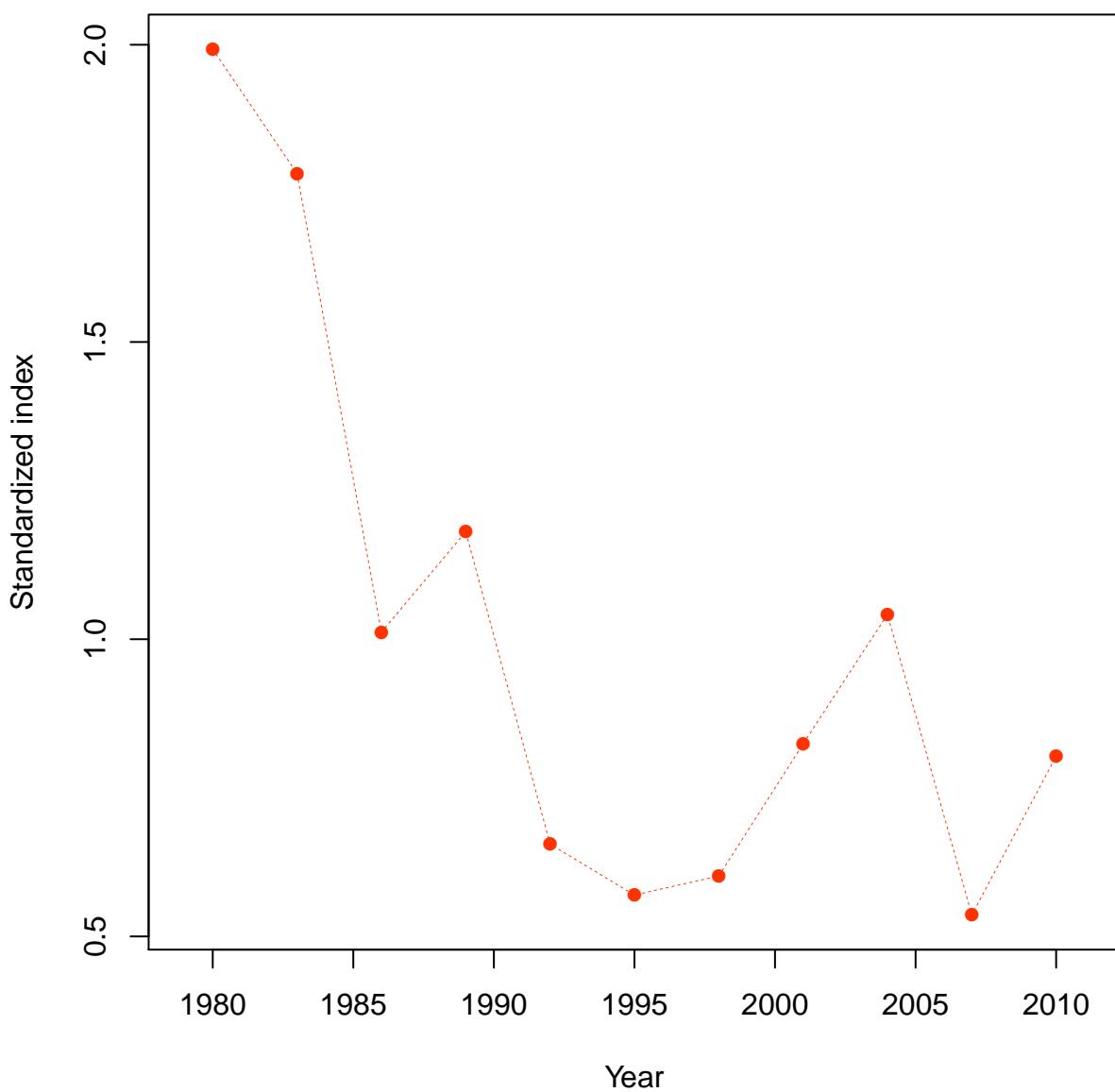
Log index survey1



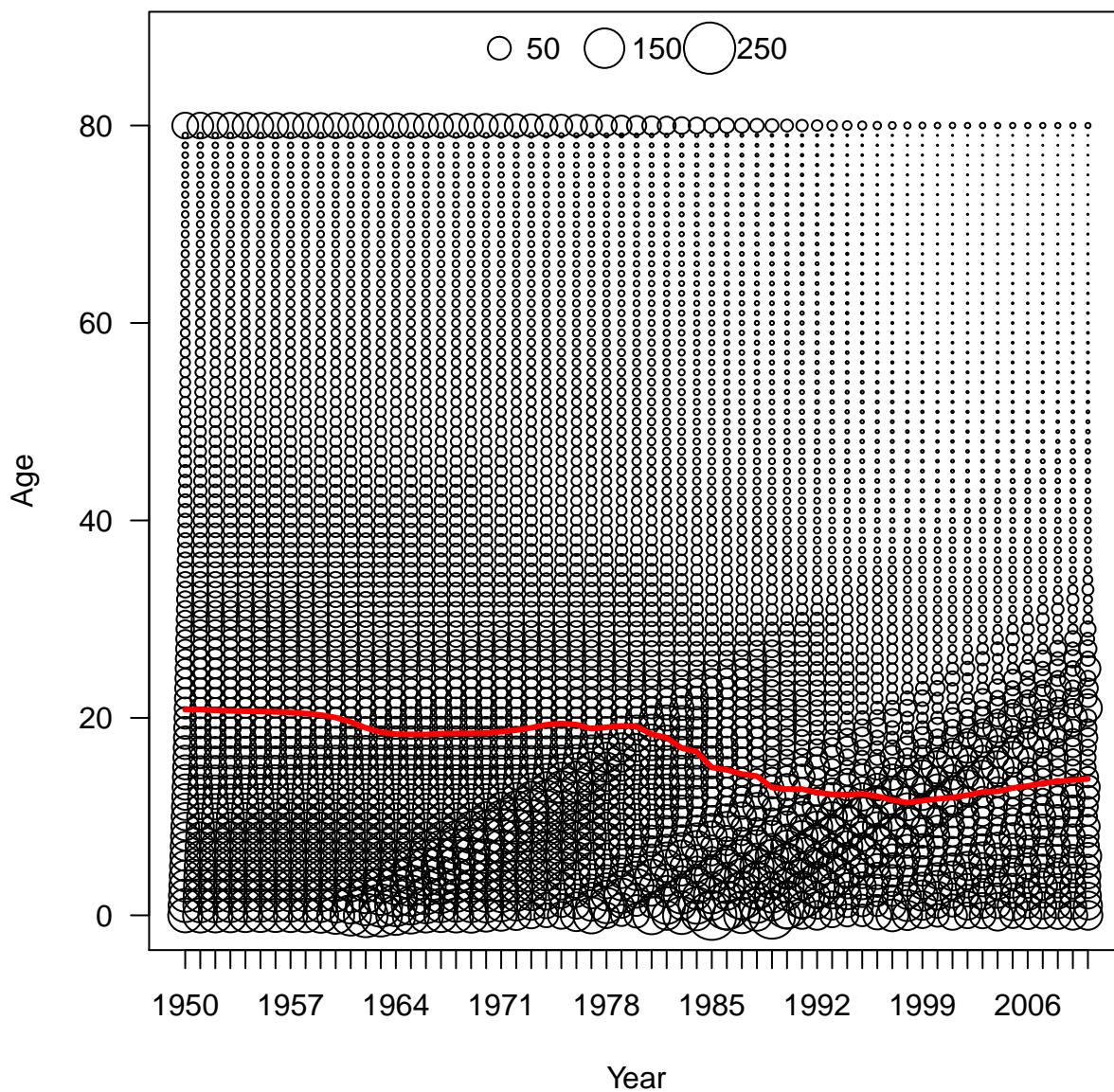
Log index survey1



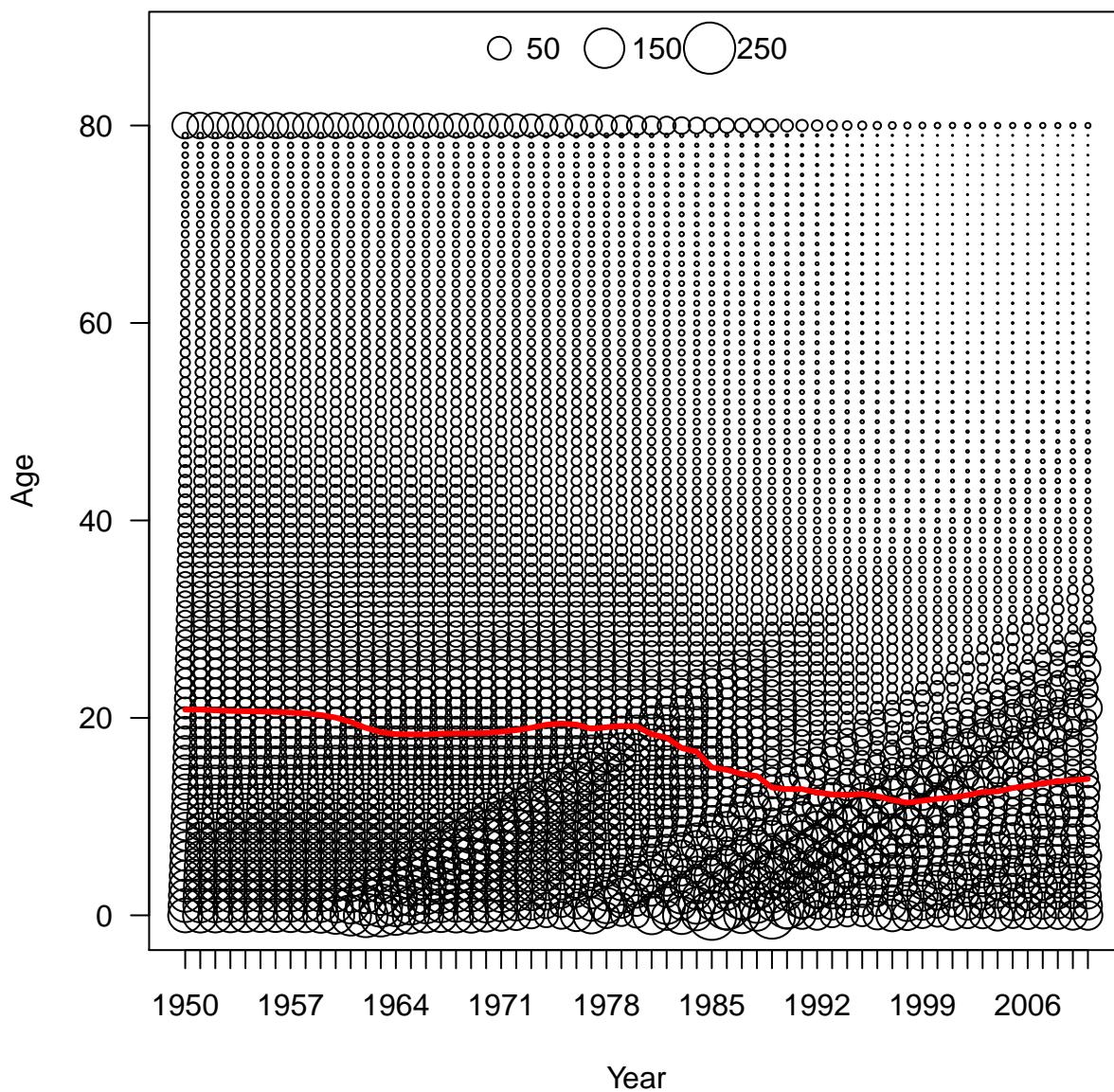
All cpue plot



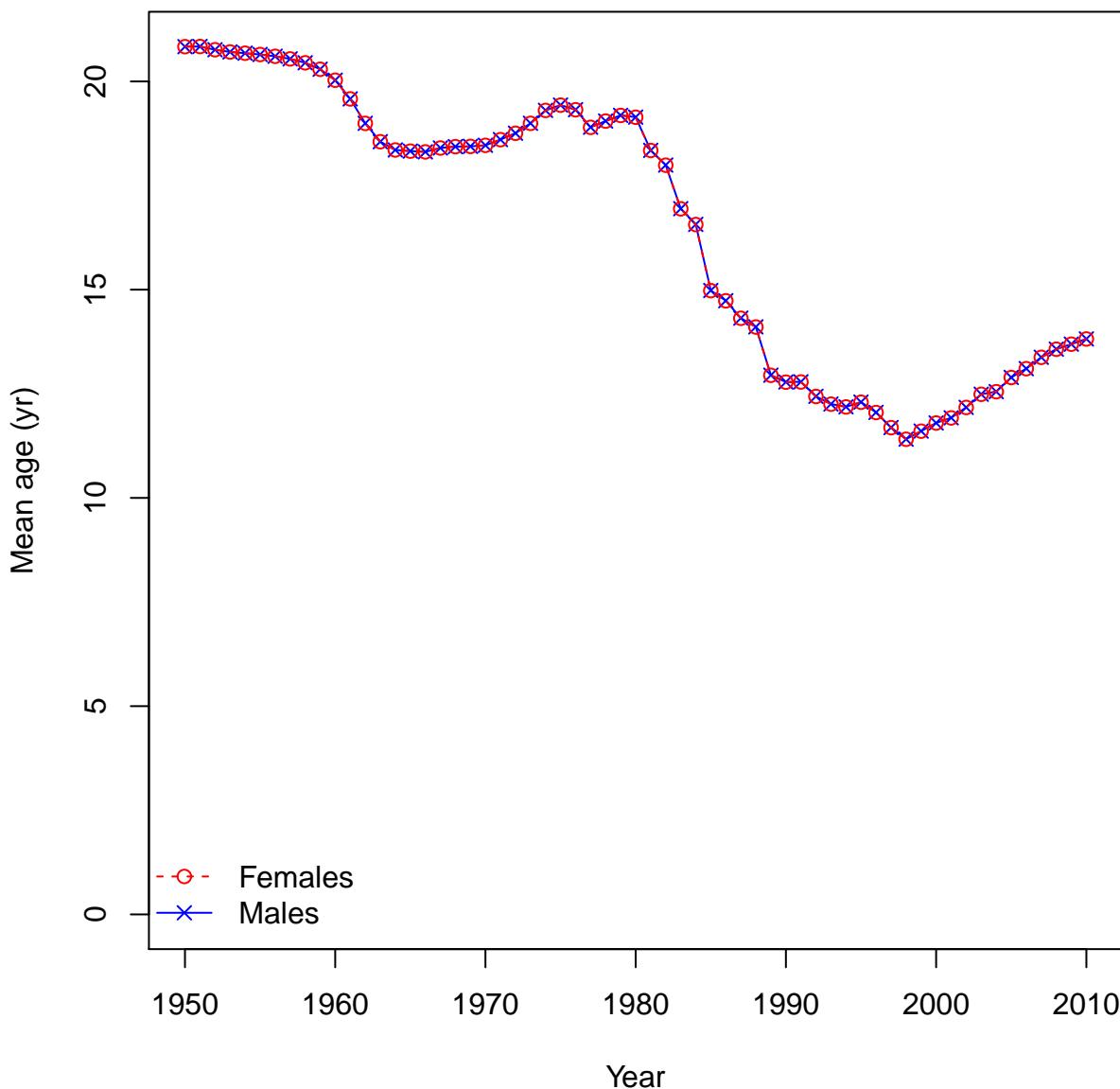
Beginning of year expected numbers at age of females in thousands (max=229.419)



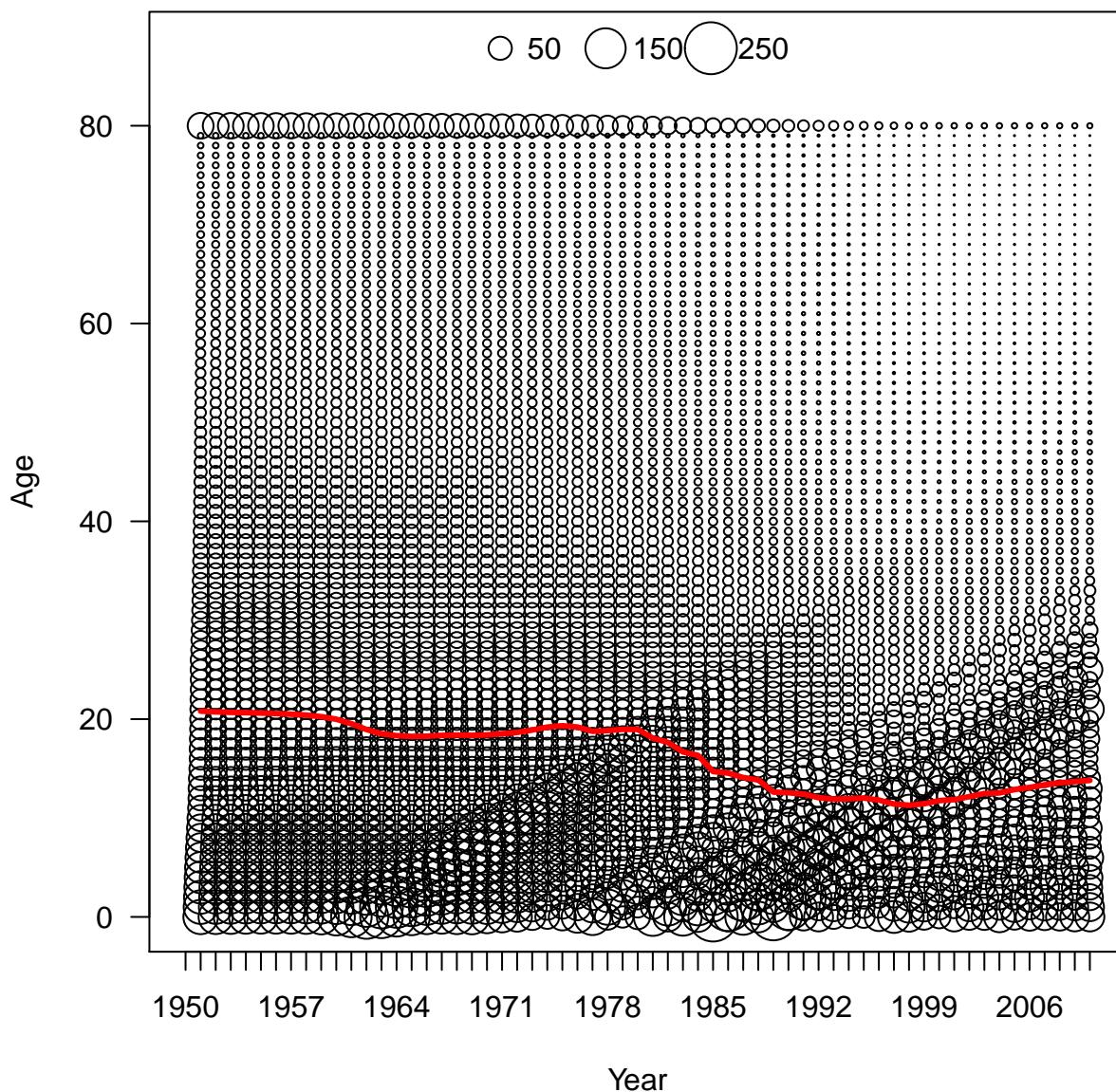
Beginning of year expected numbers at age of males in thousands (max=229.419)



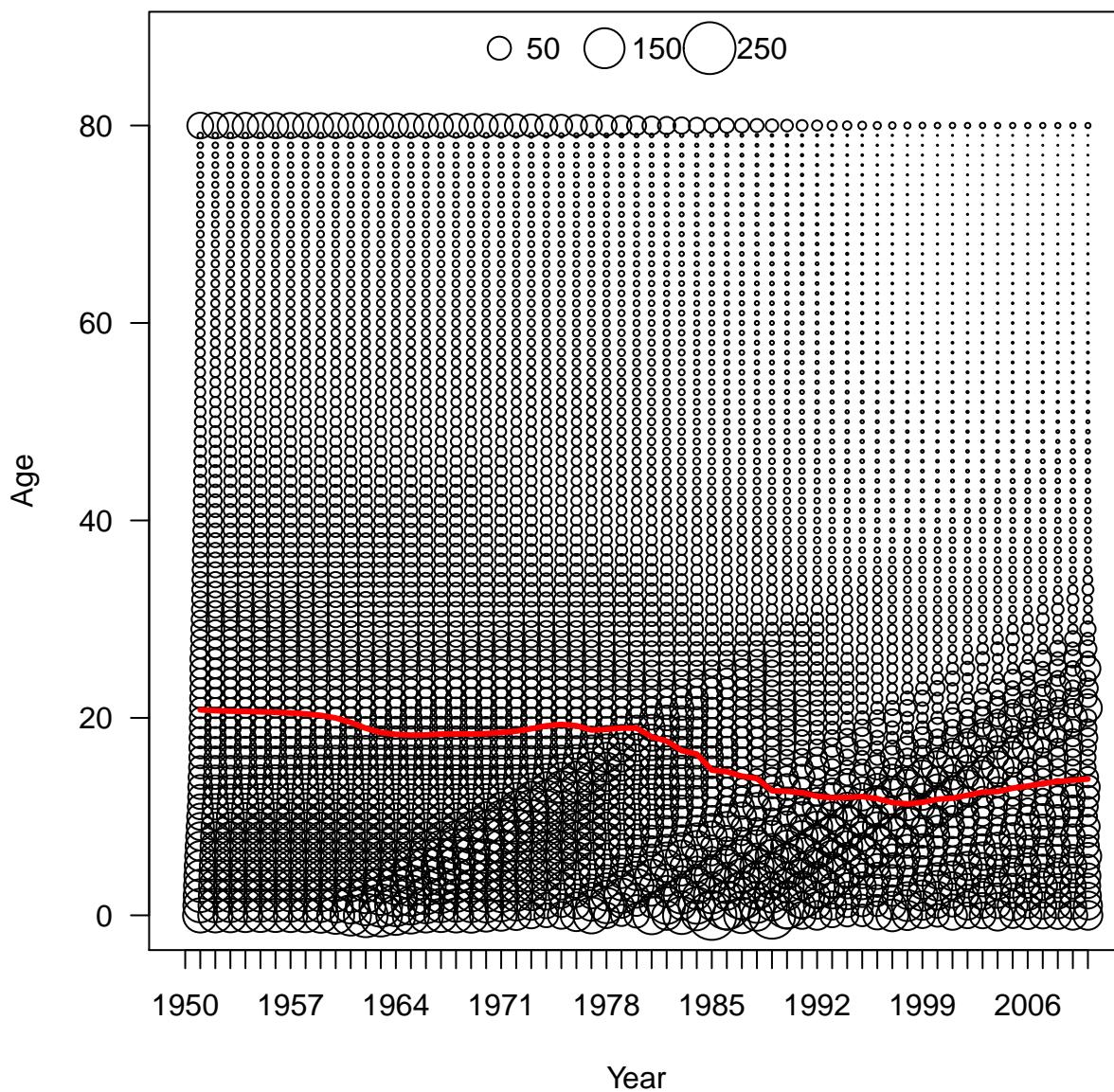
Beginning of year mean age in the population



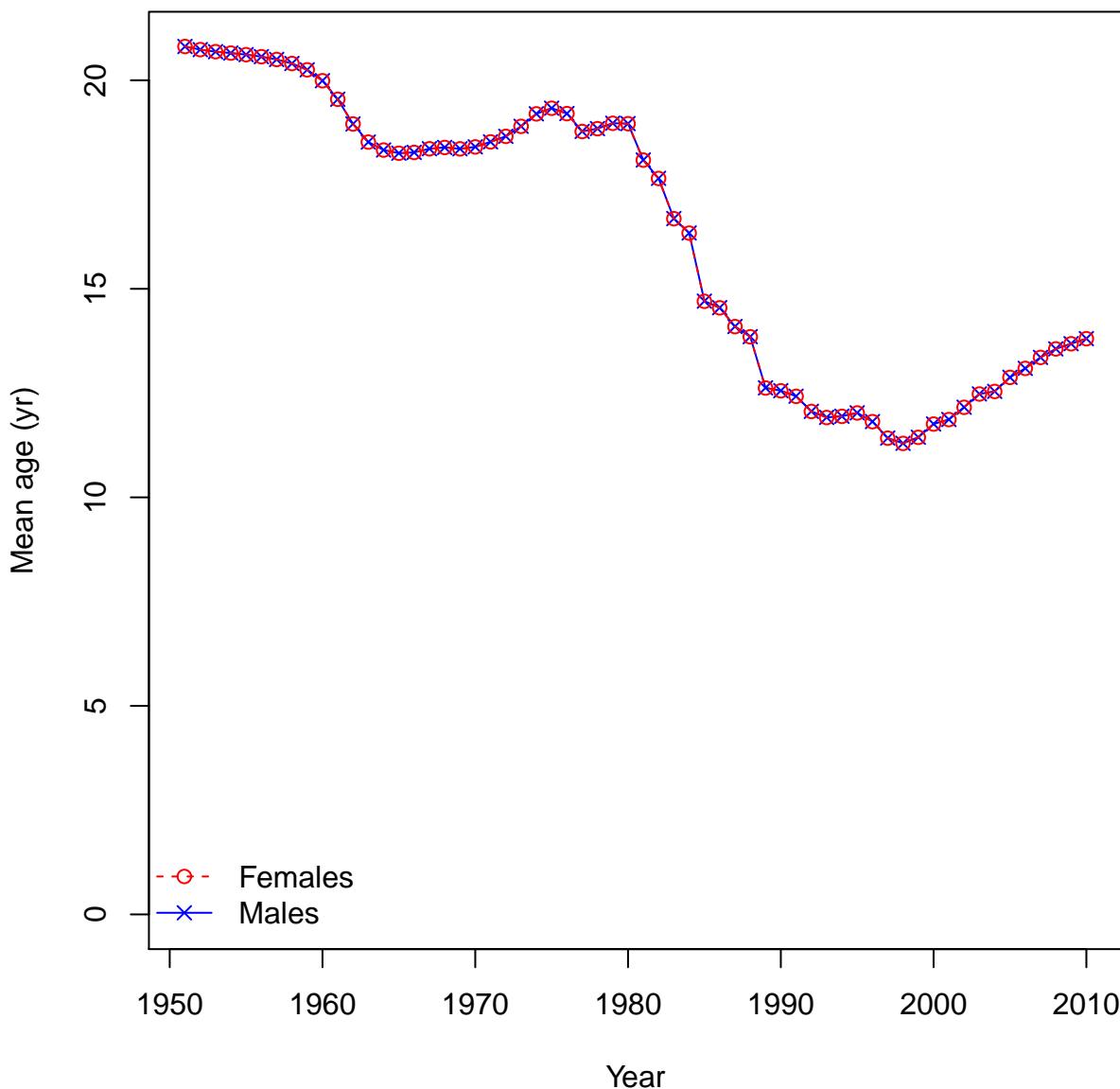
Middle of year expected numbers at age of females in thousands (max=224.237)



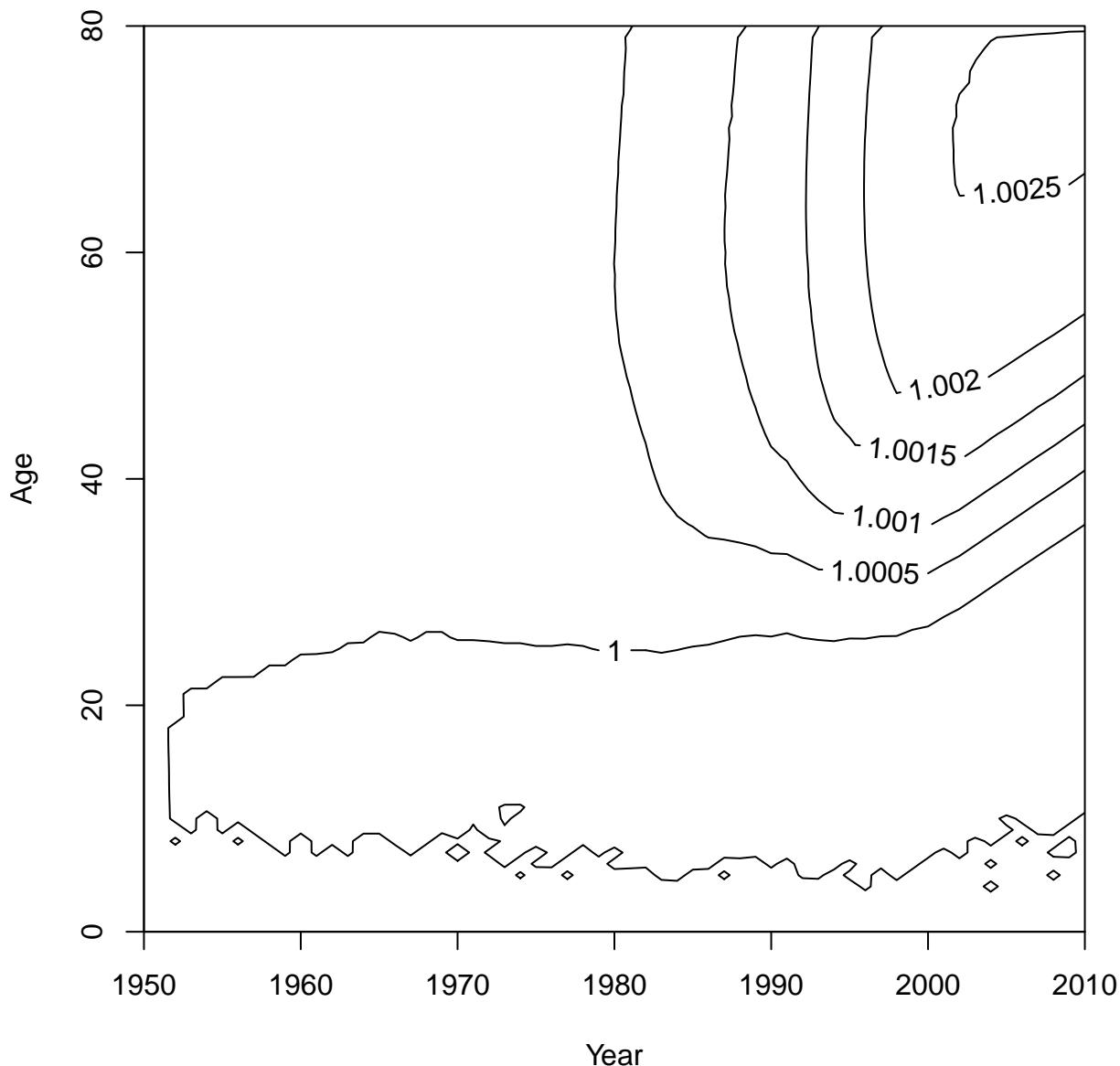
Middle of year expected numbers at age of males in thousands (max=224.237)



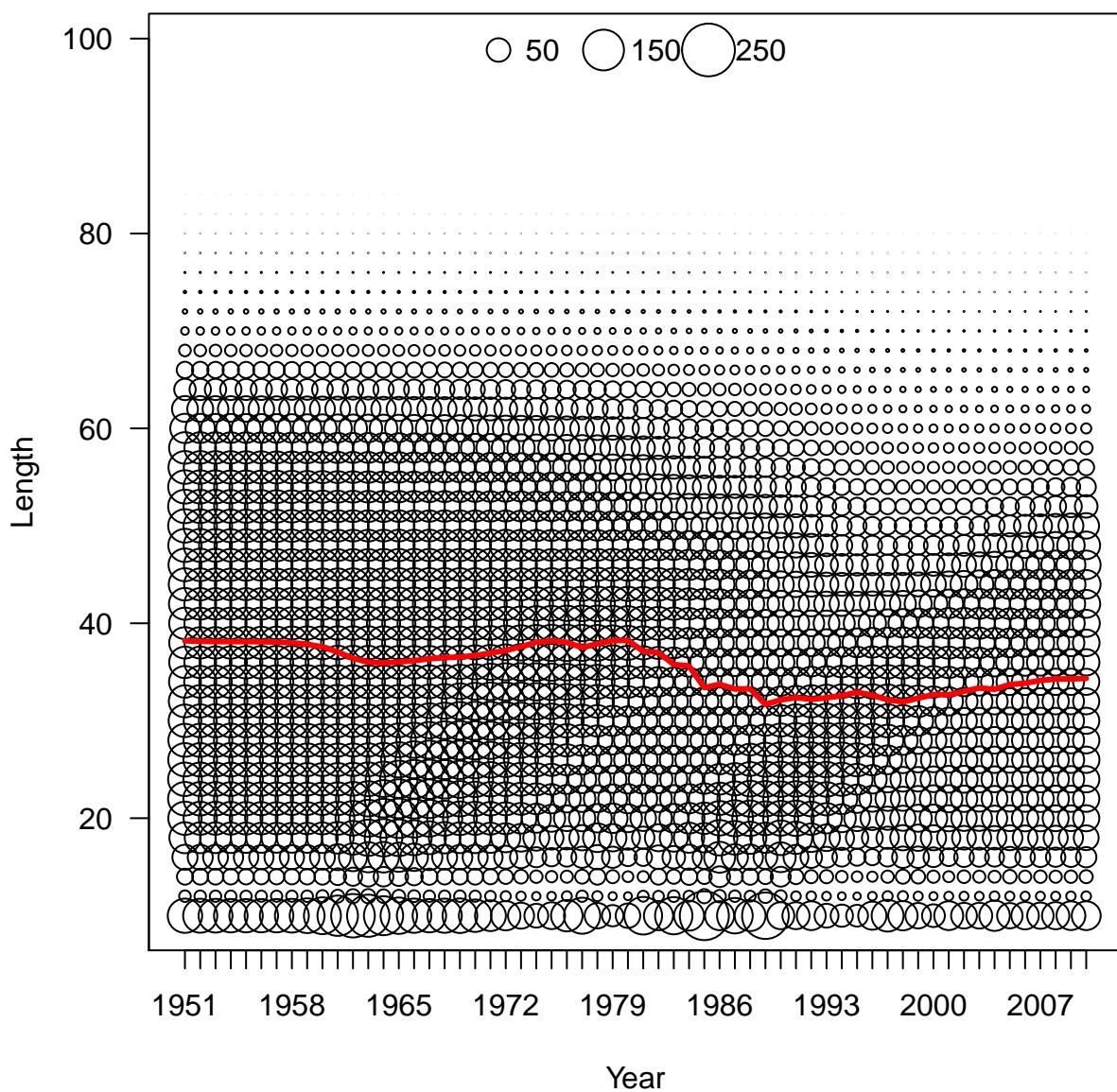
Middle of year mean age in the population



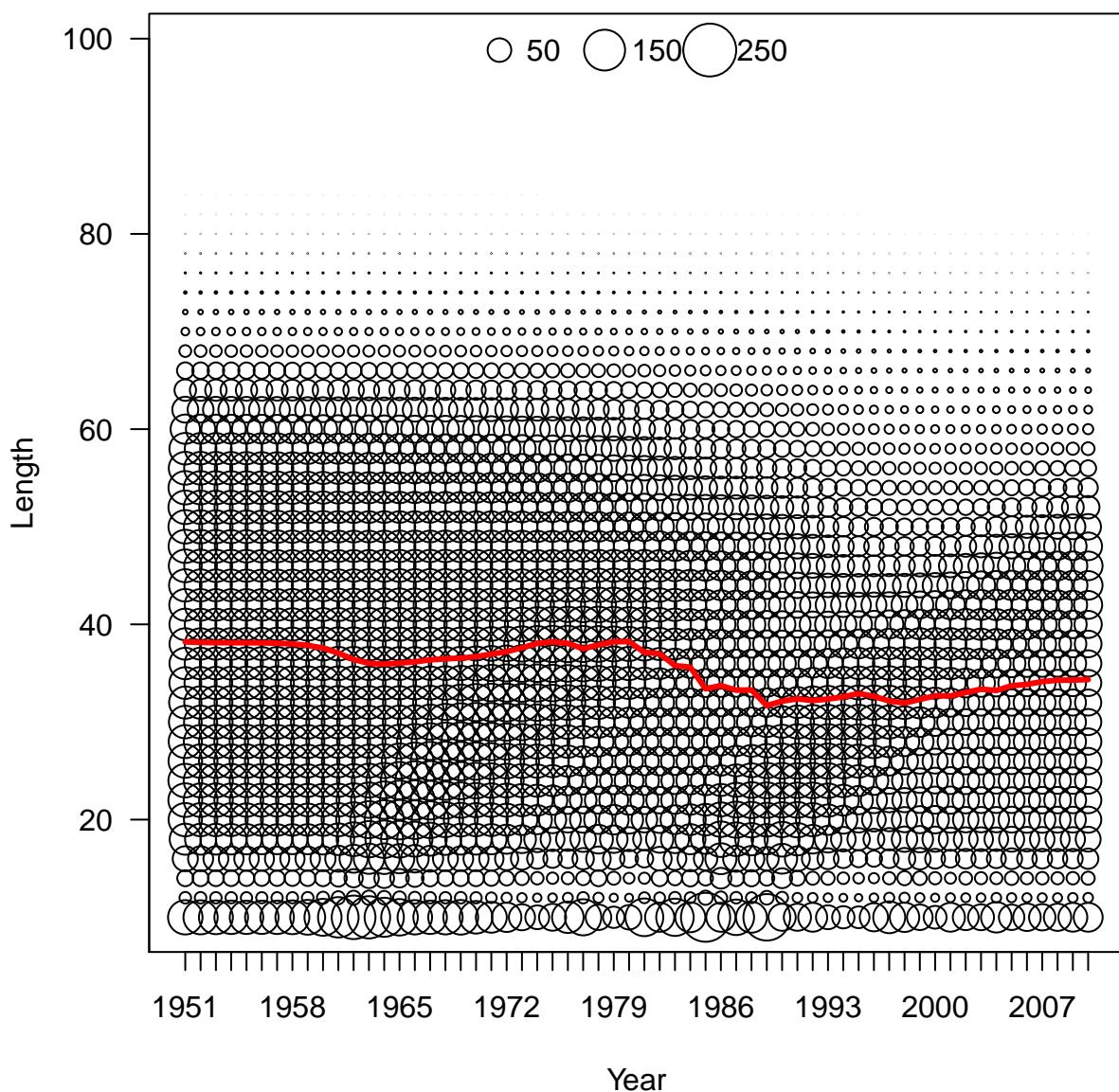
Sex ratio of numbers at age (males/females)



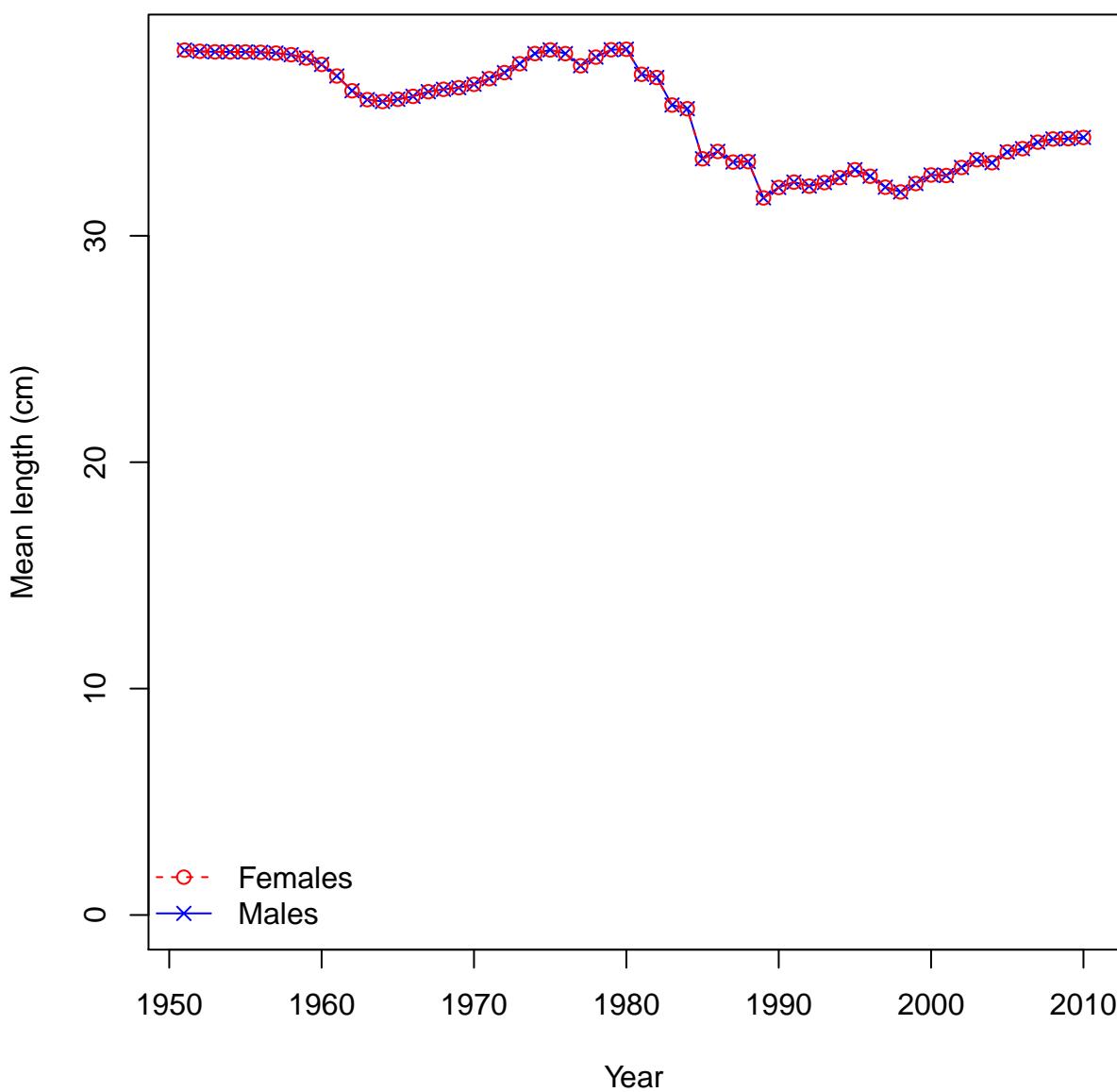
Beginning of year expected numbers at length of females in thousands (max=215.678)



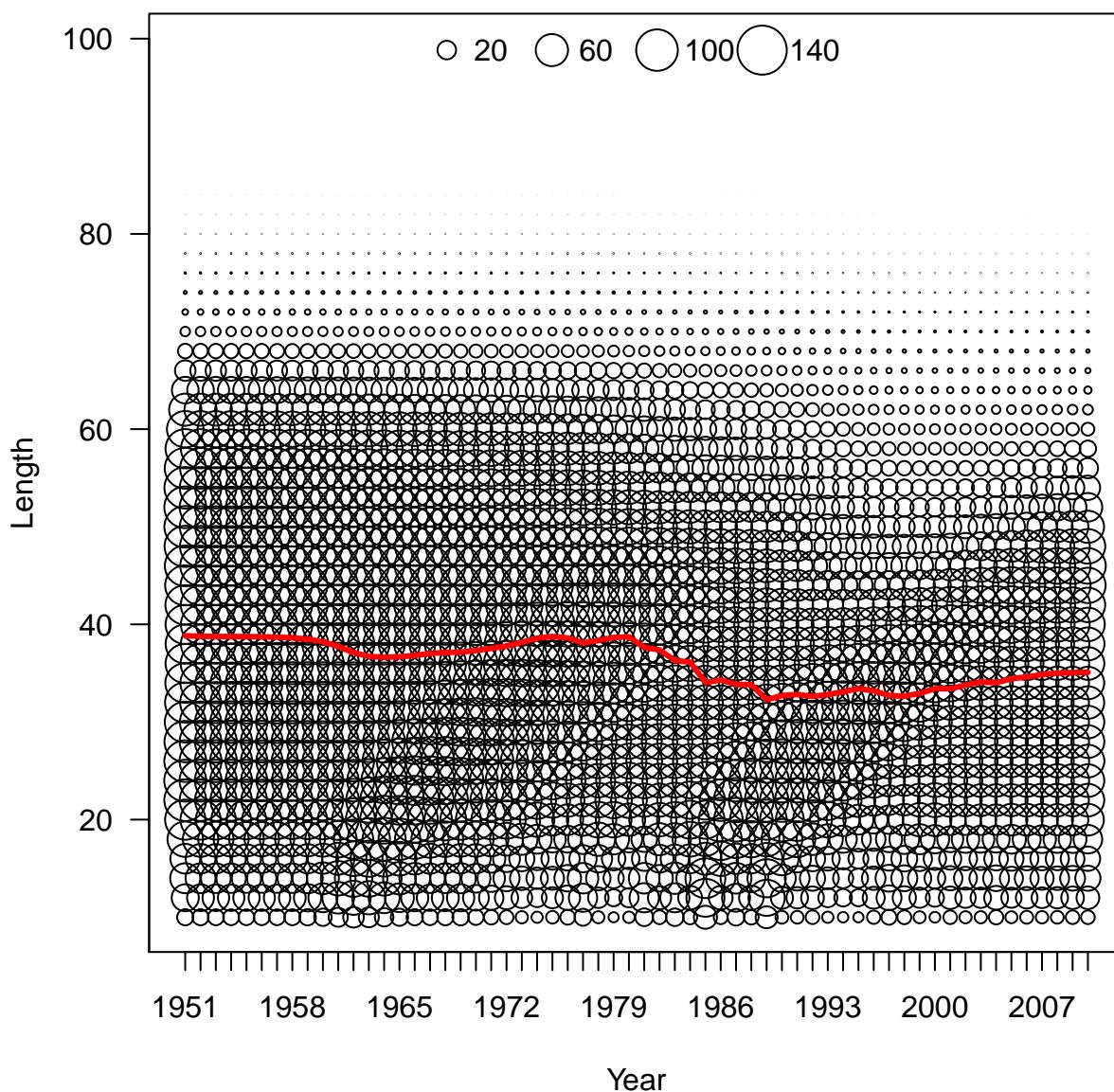
Beginning of year expected numbers at length of males in thousands (max=215.678)



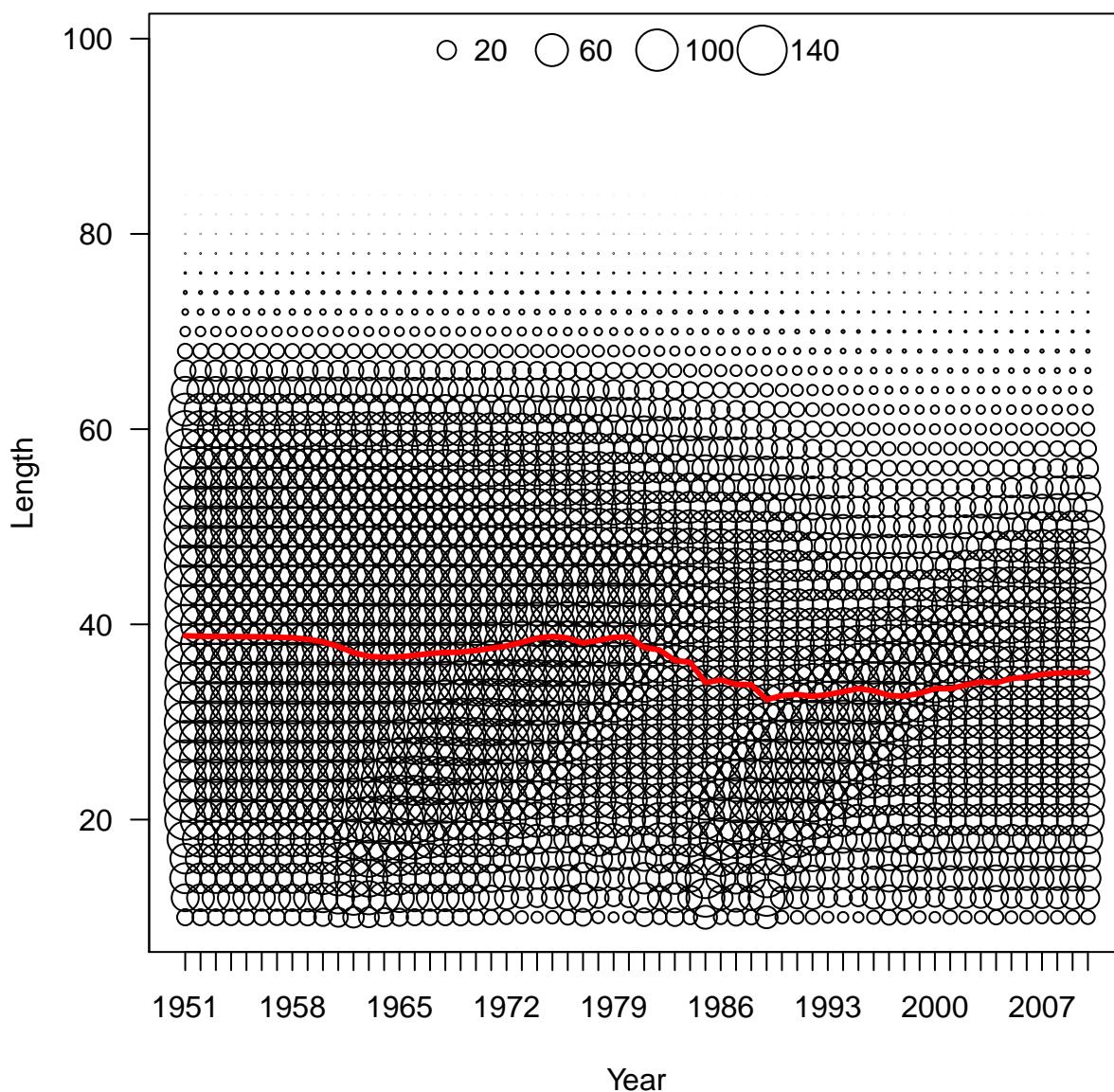
Beginning of year mean length (cm) in the population



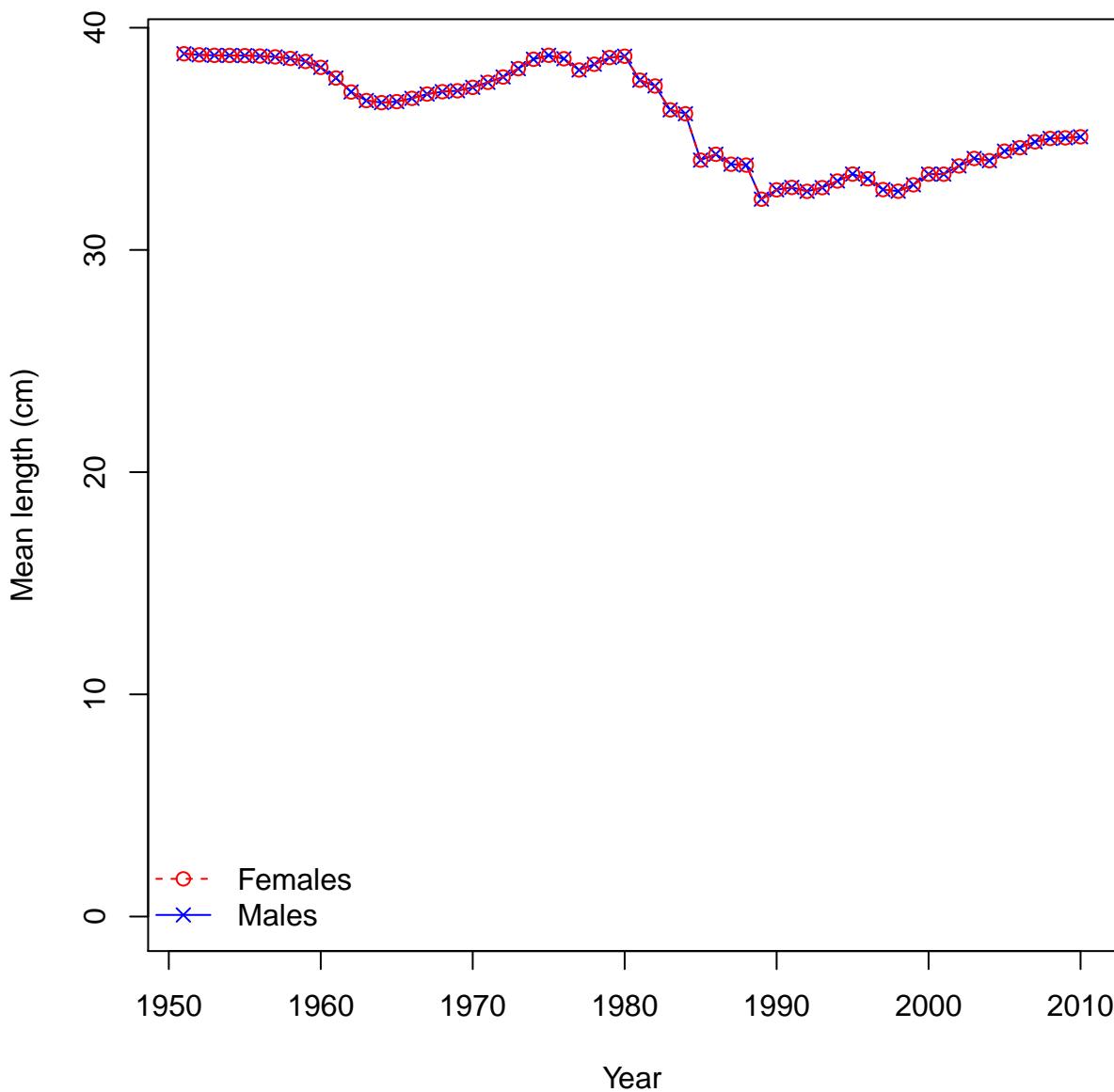
Middle of year expected numbers at length of females in thousands (max=139.235)



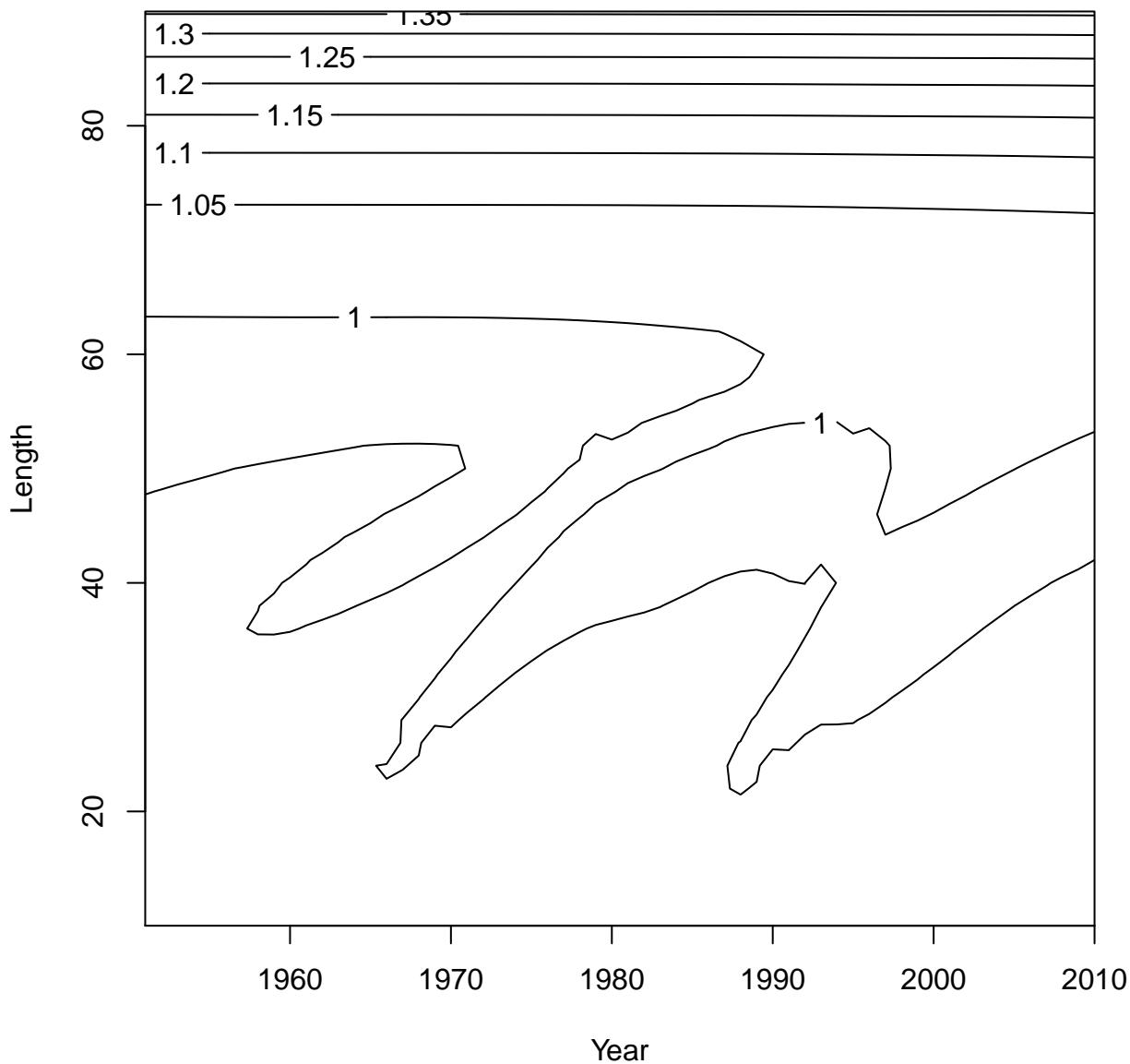
Middle of year expected numbers at length of males in thousands (max=139.236)



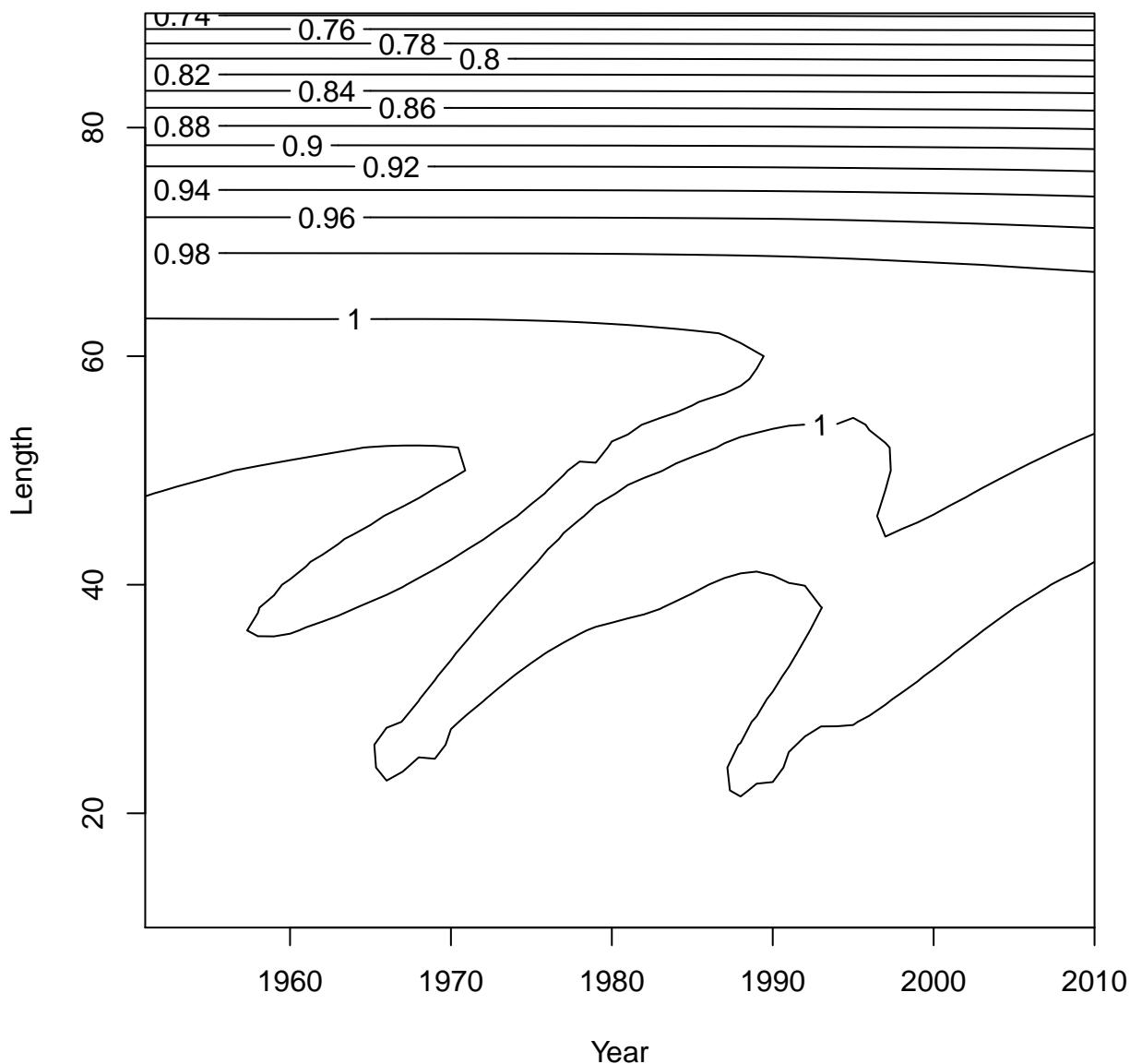
Middle of year mean length (cm) in the population



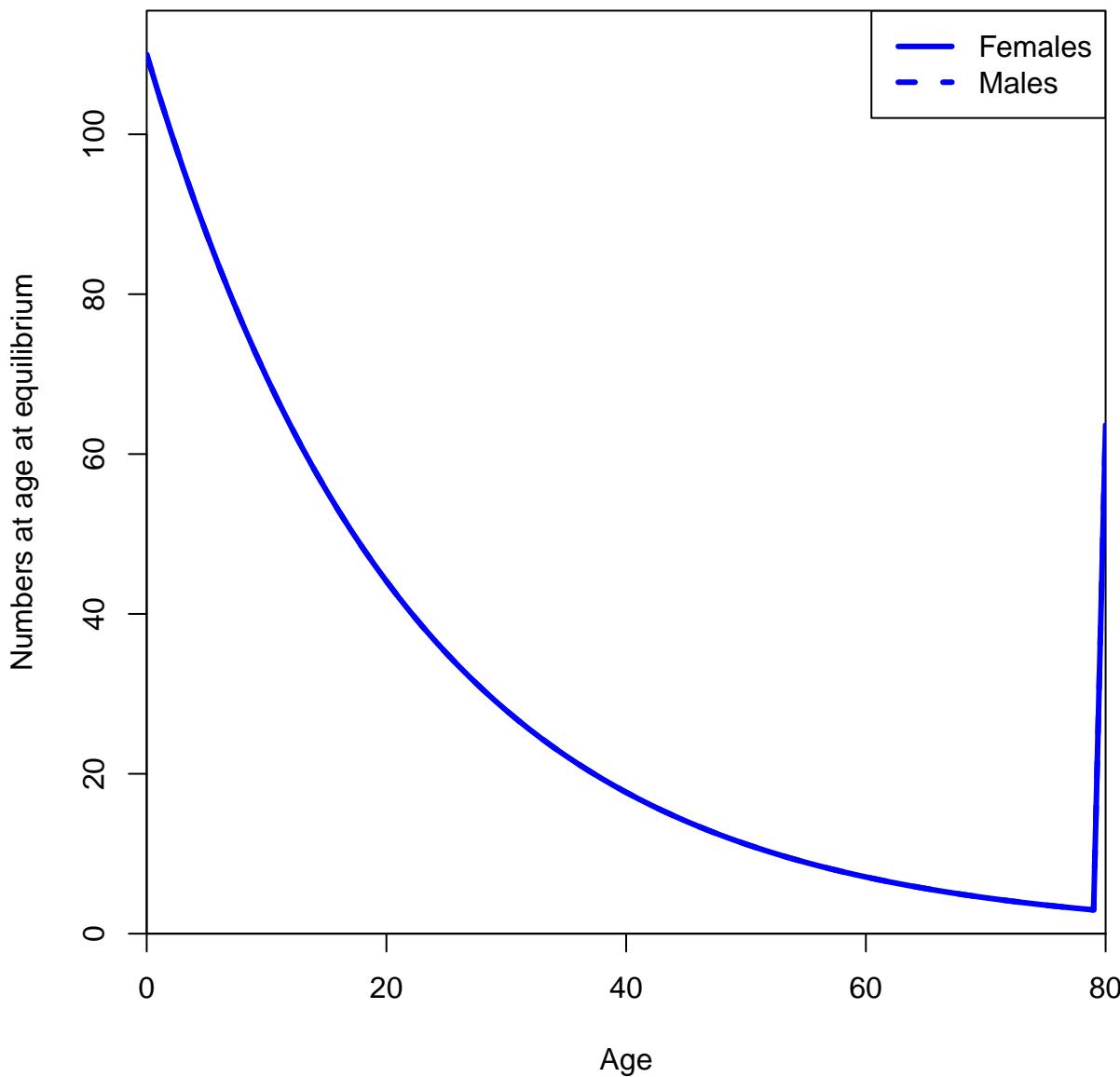
Sex ratio of numbers at length (males/females)



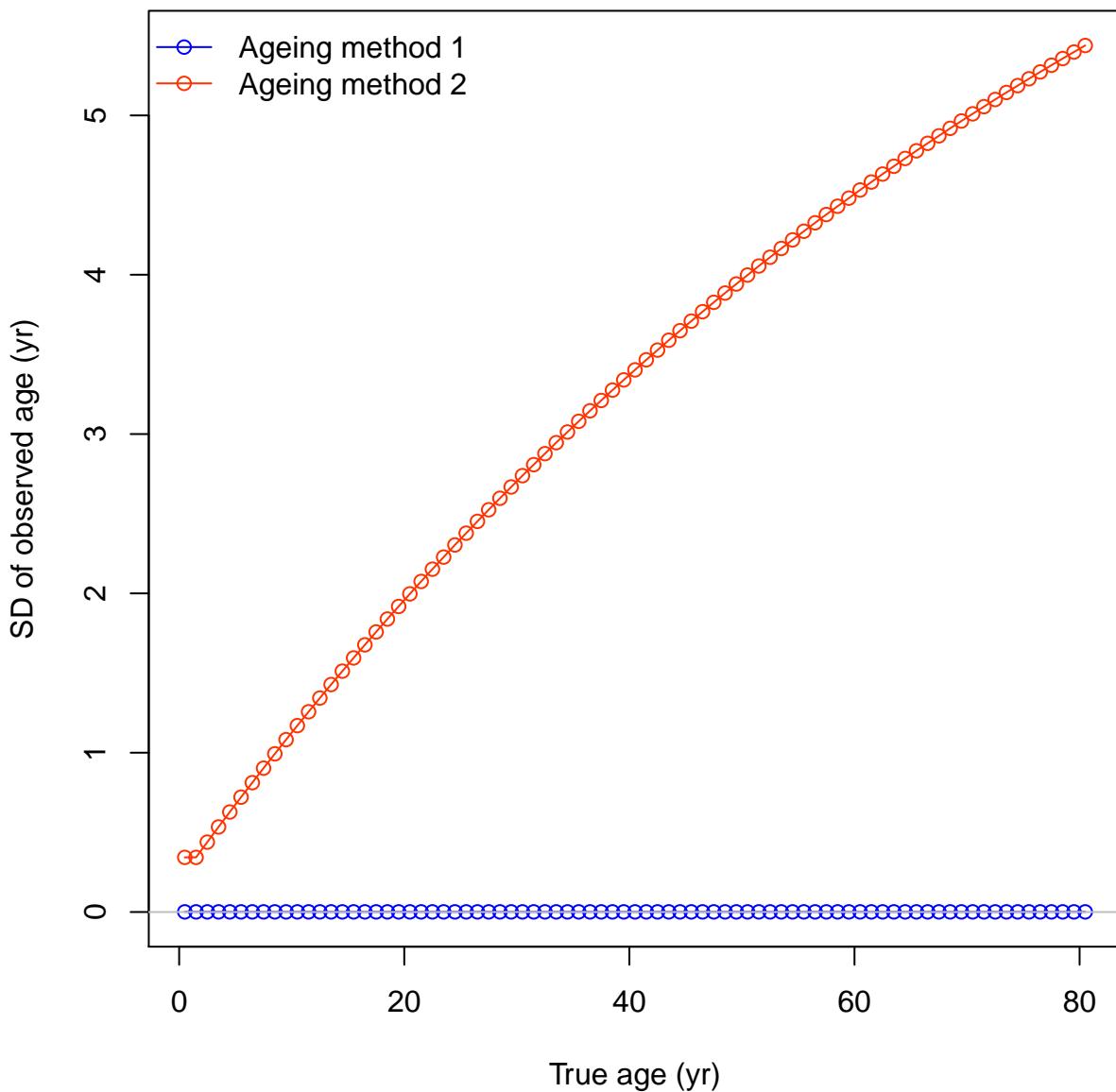
Sex ratio of numbers at length (females/males)



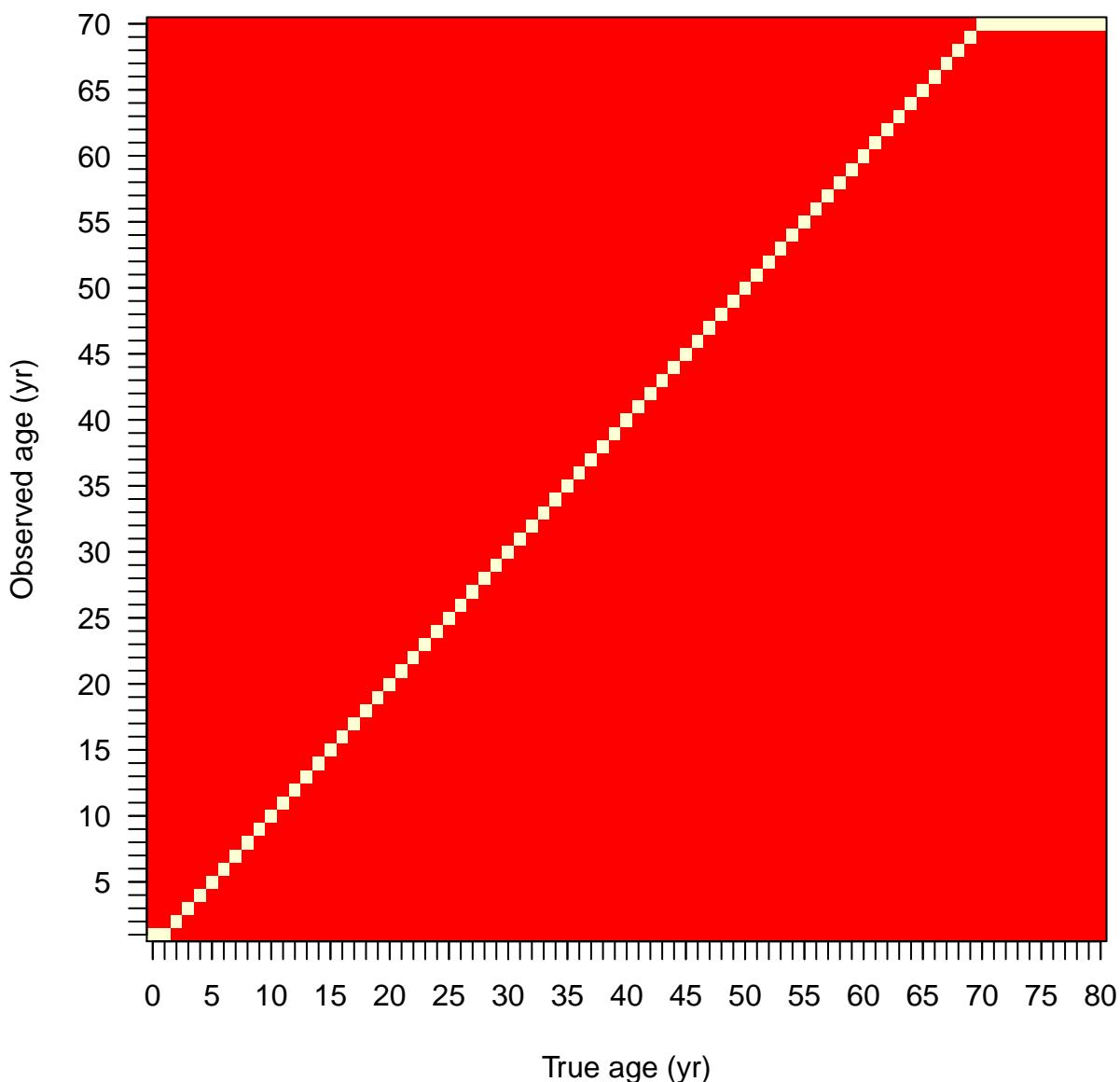
Equilibrium age distribution



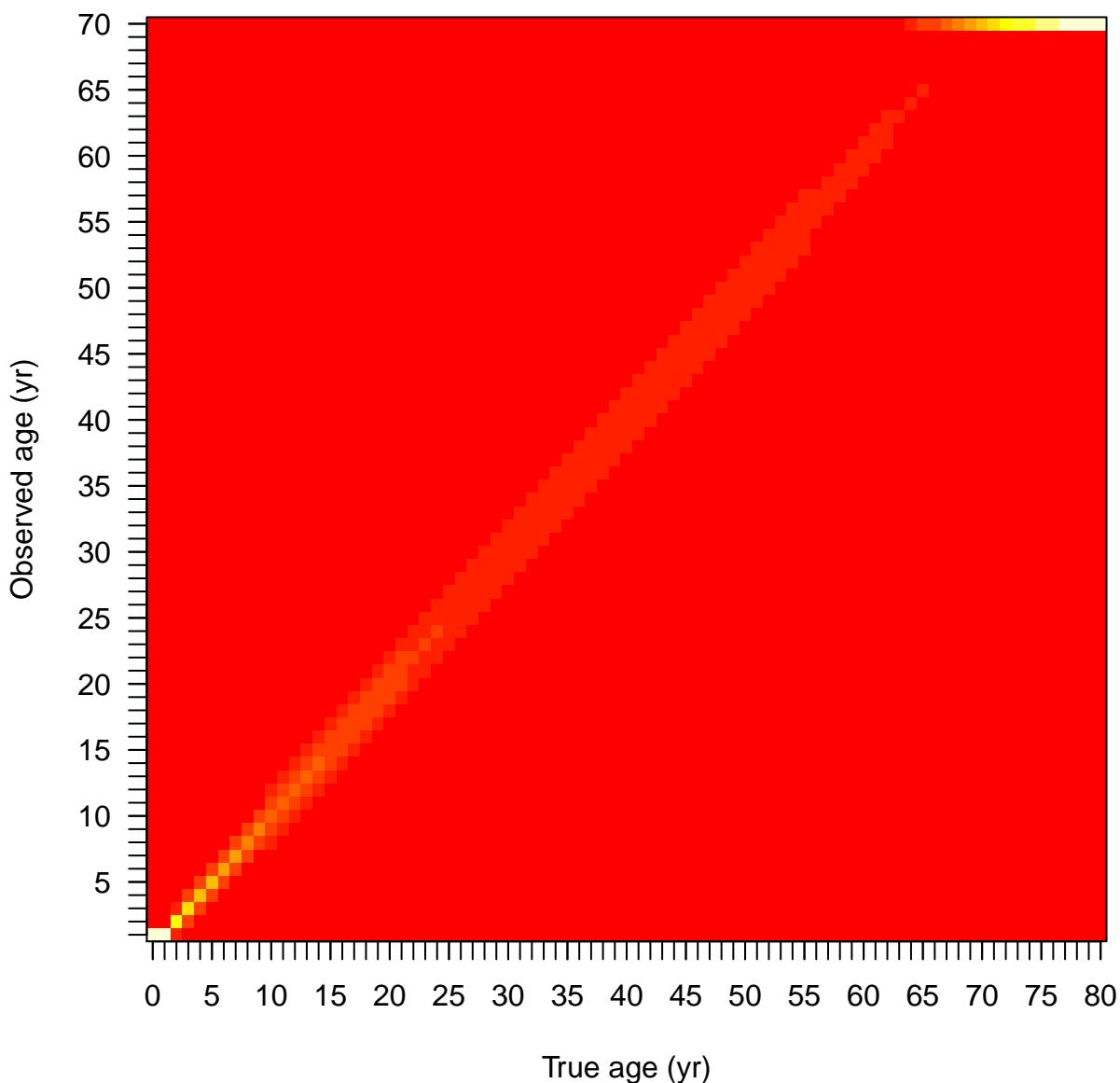
Ageing imprecision



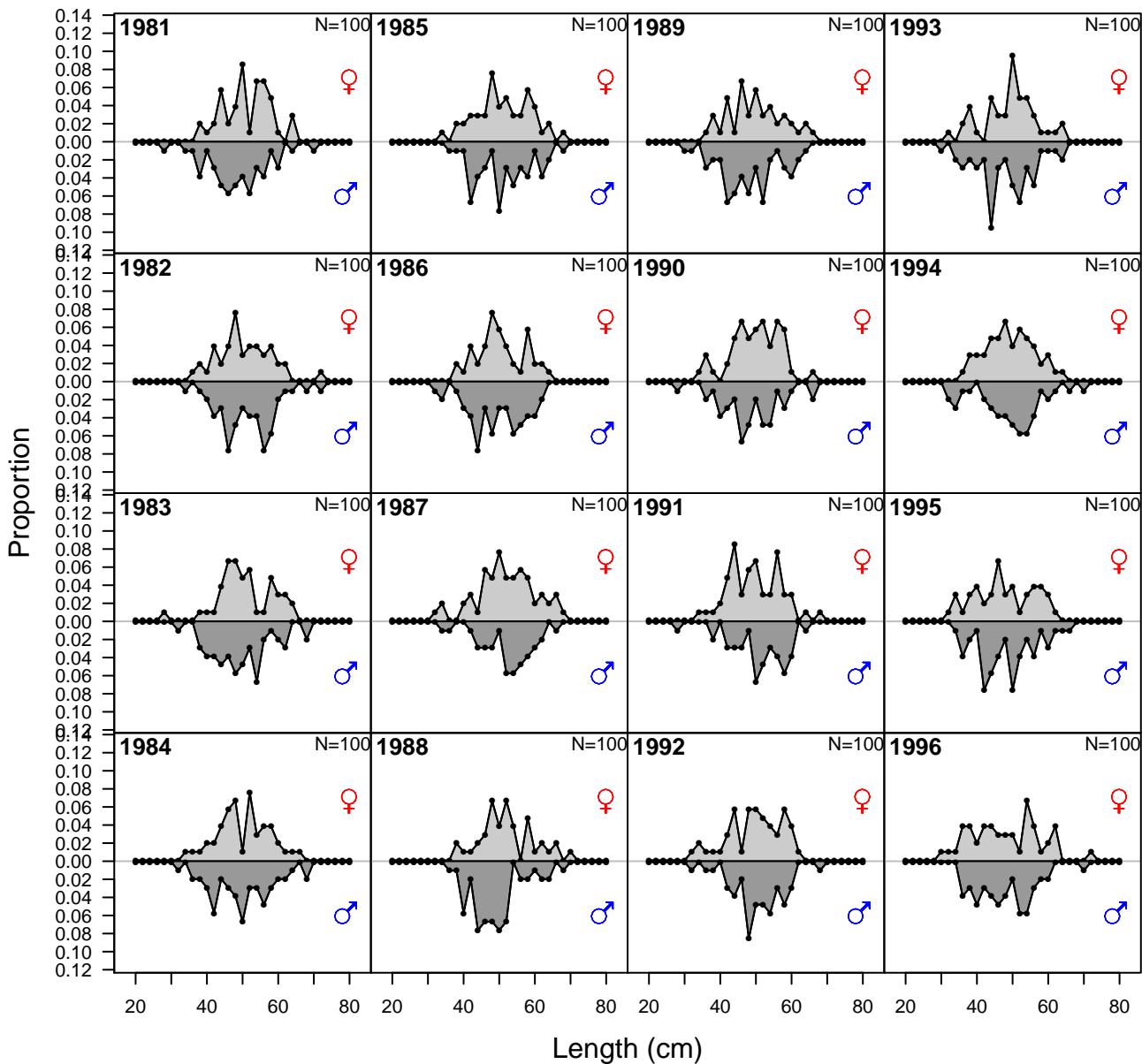
Ageing imprecision: matrix for method 1



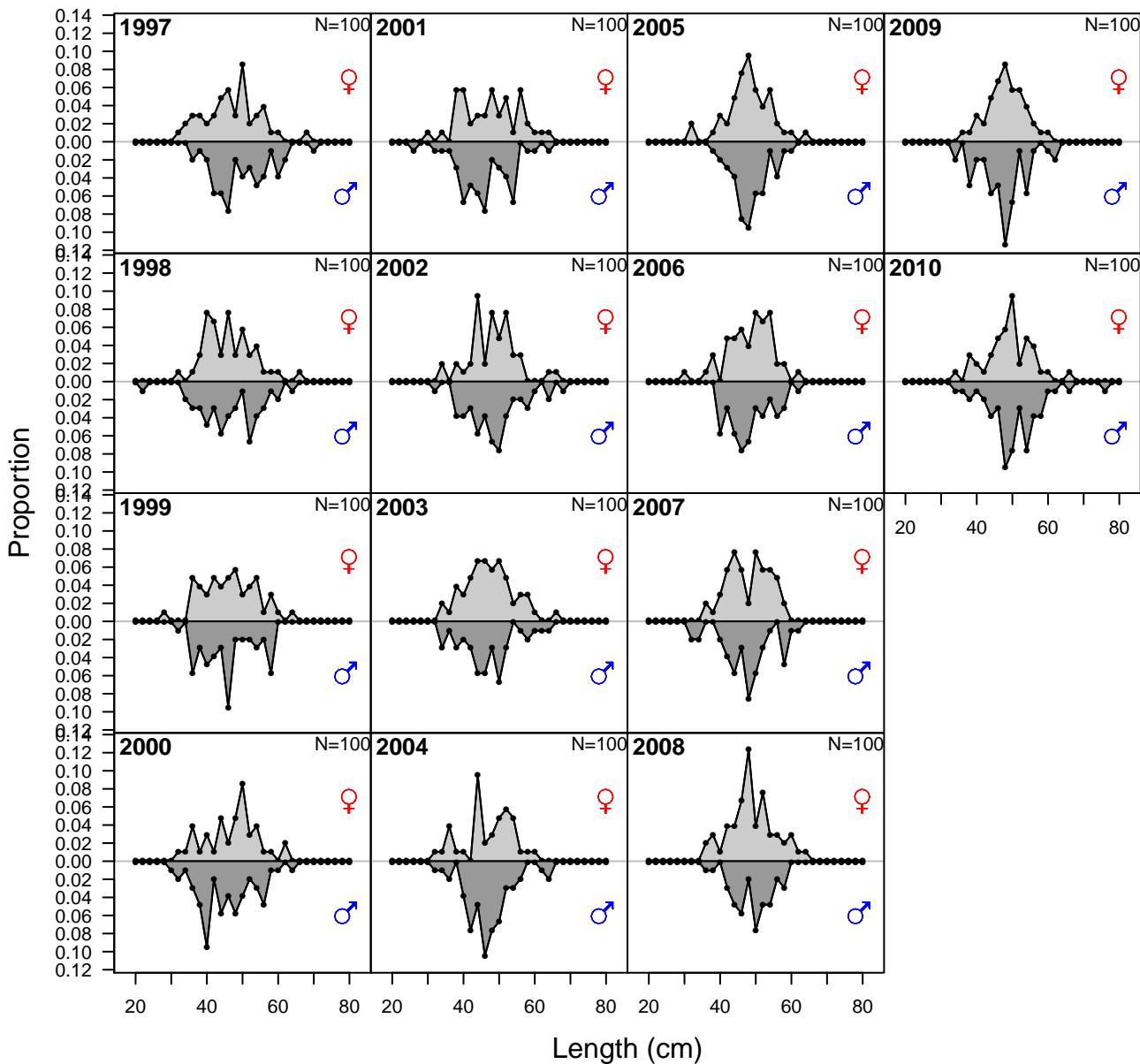
Ageing imprecision: matrix for method 2



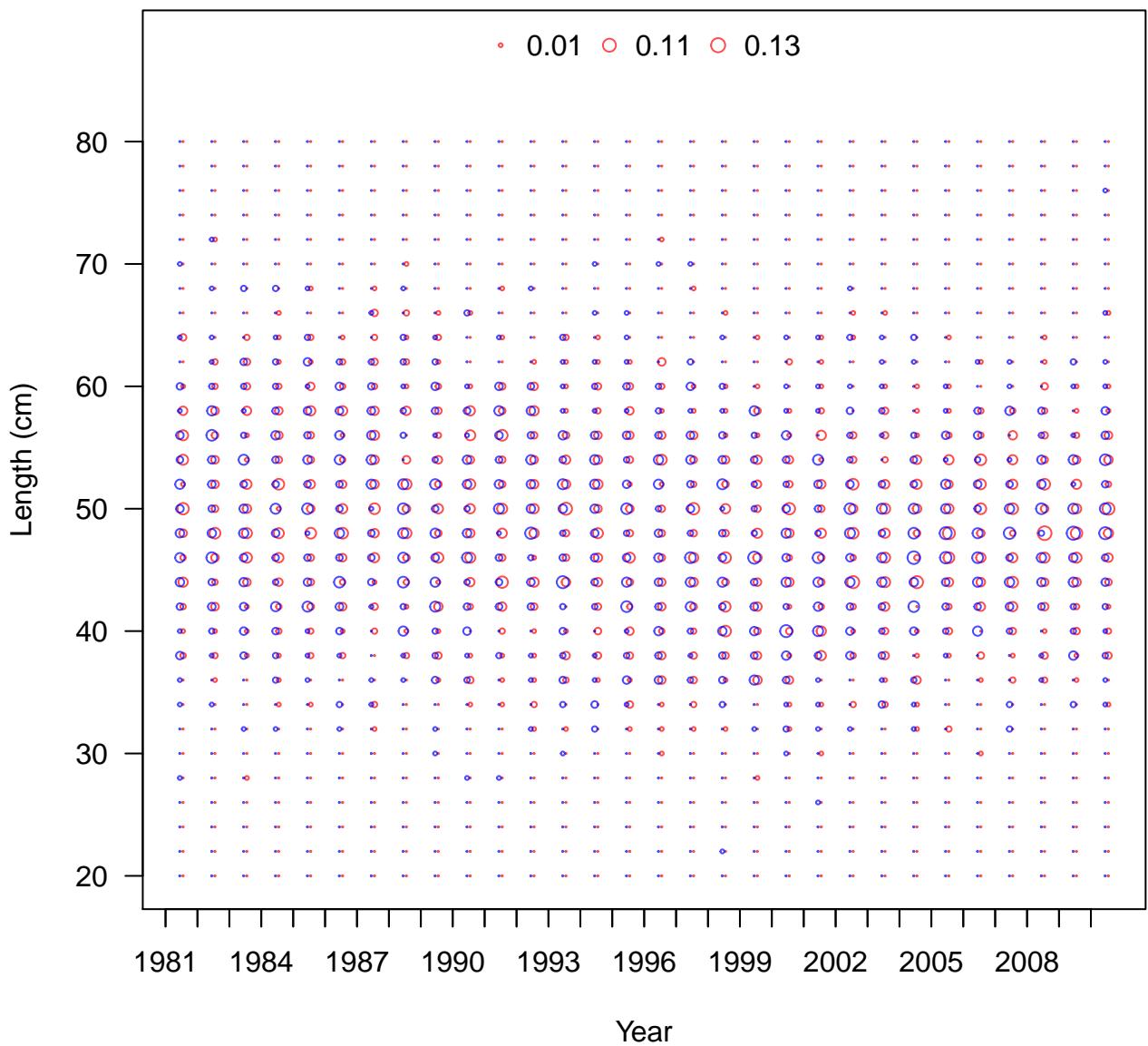
length comp data, whole catch, fishery1



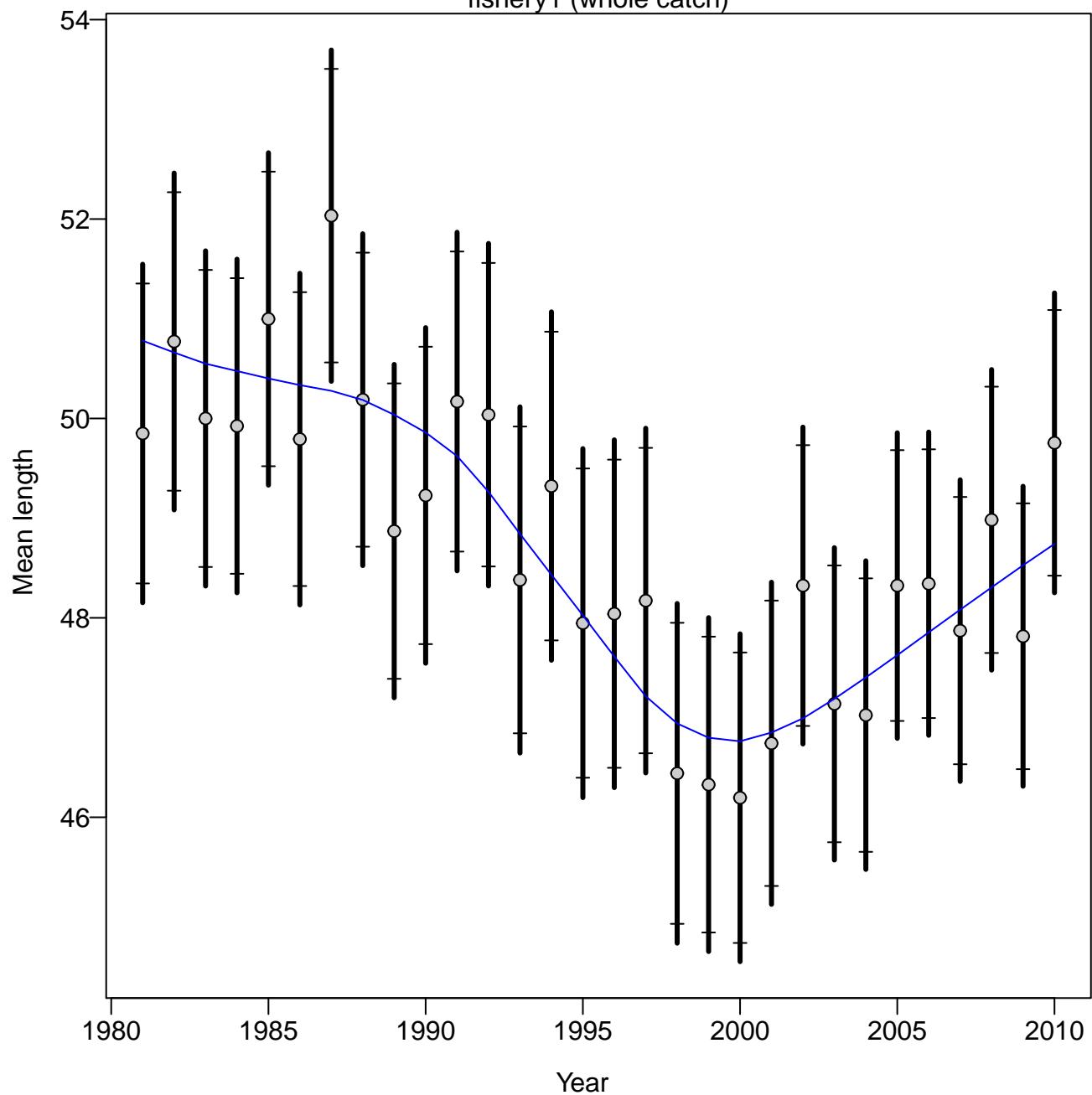
length comp data, whole catch, fishery1



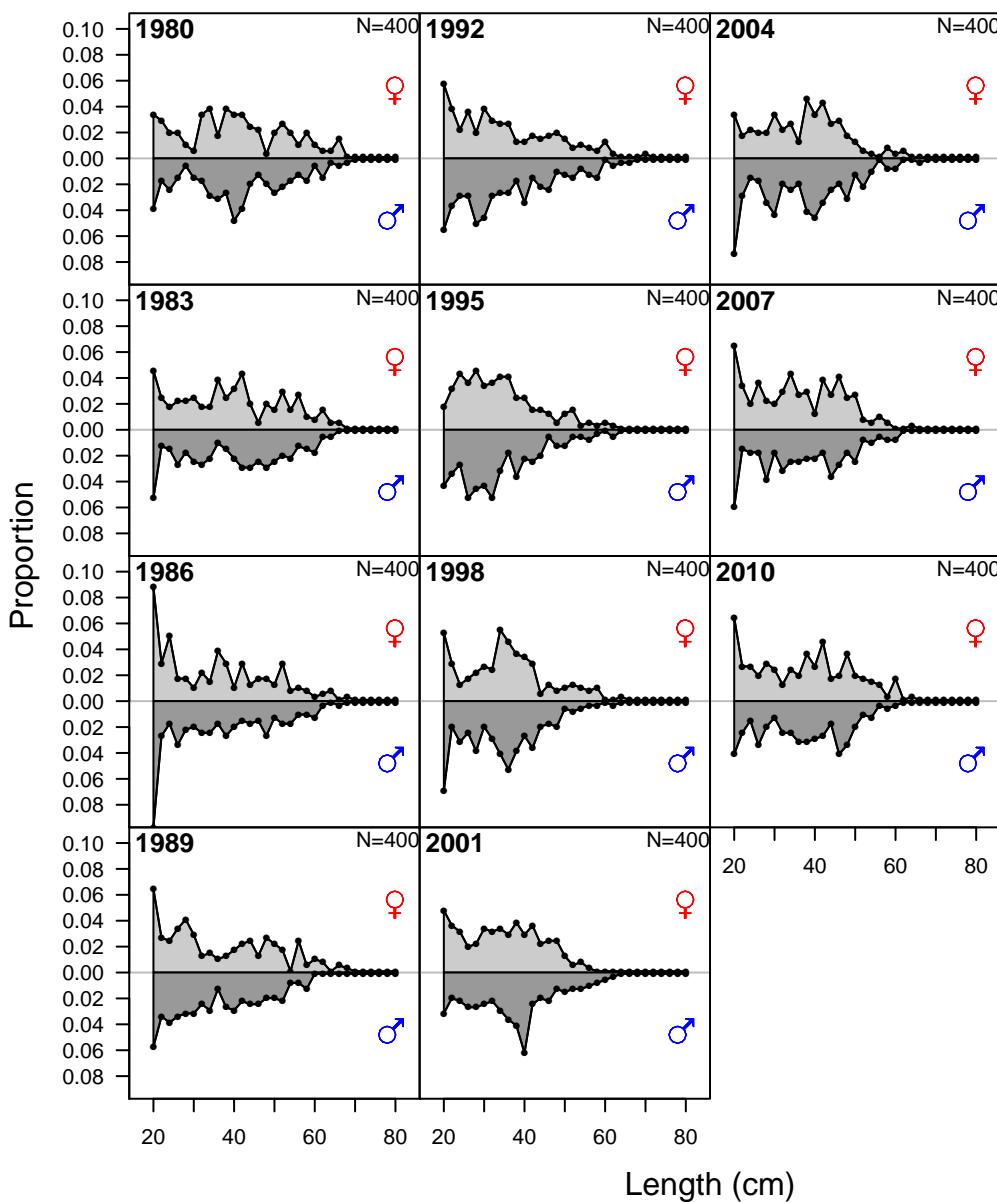
length comp data, whole catch, fishery1 (max=0.12)



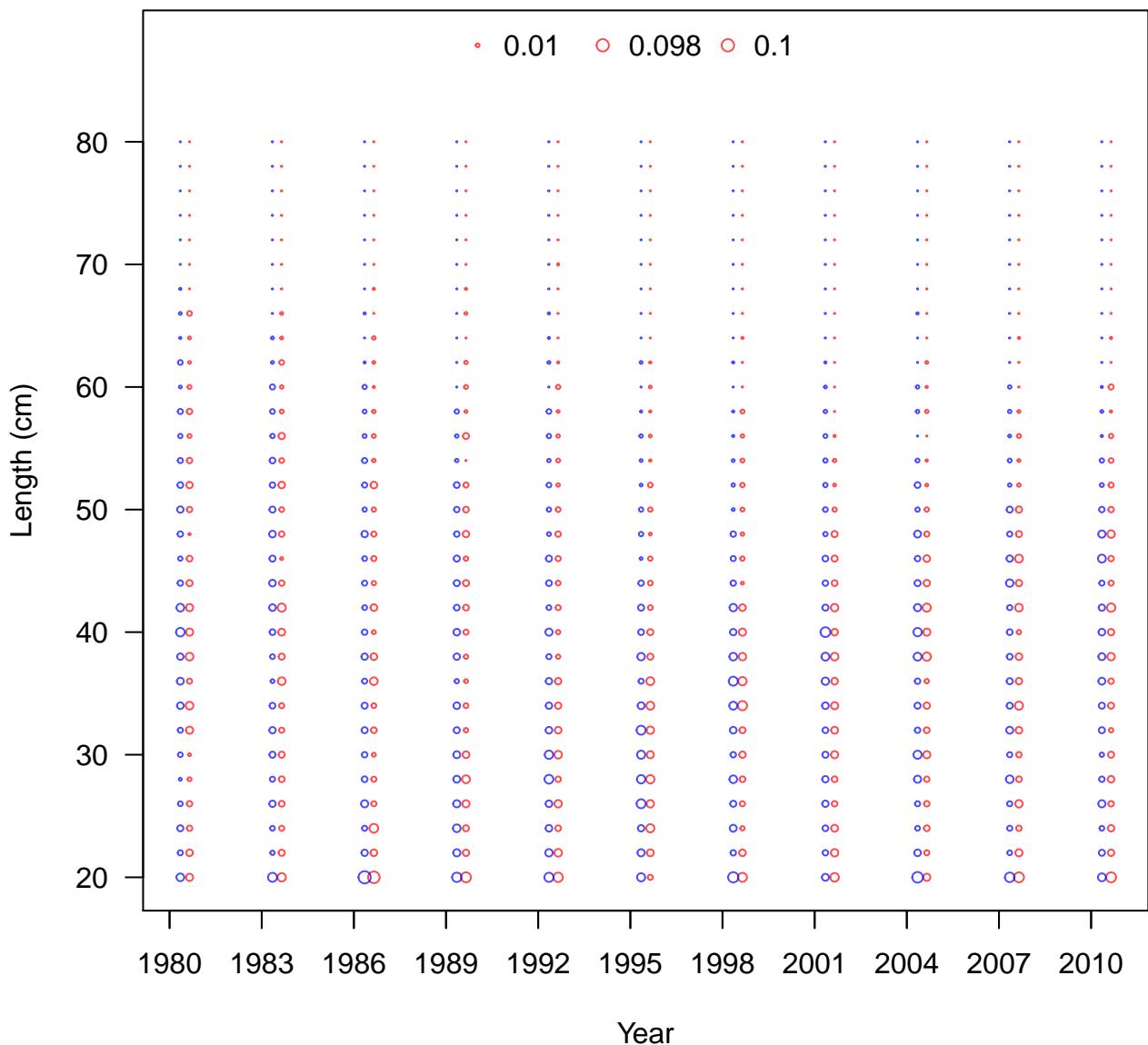
fishery1 (whole catch)



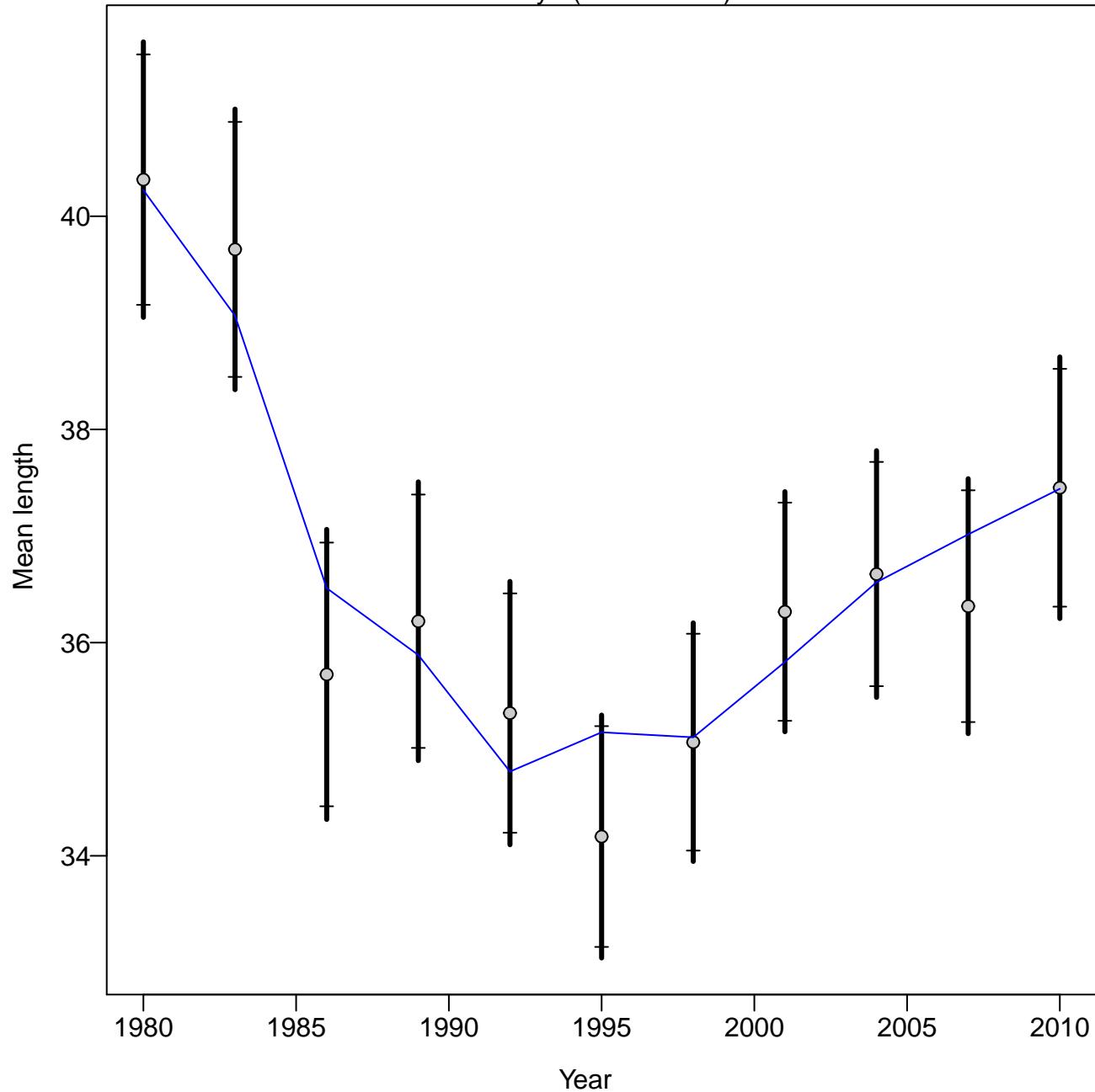
length comp data, whole catch, survey1



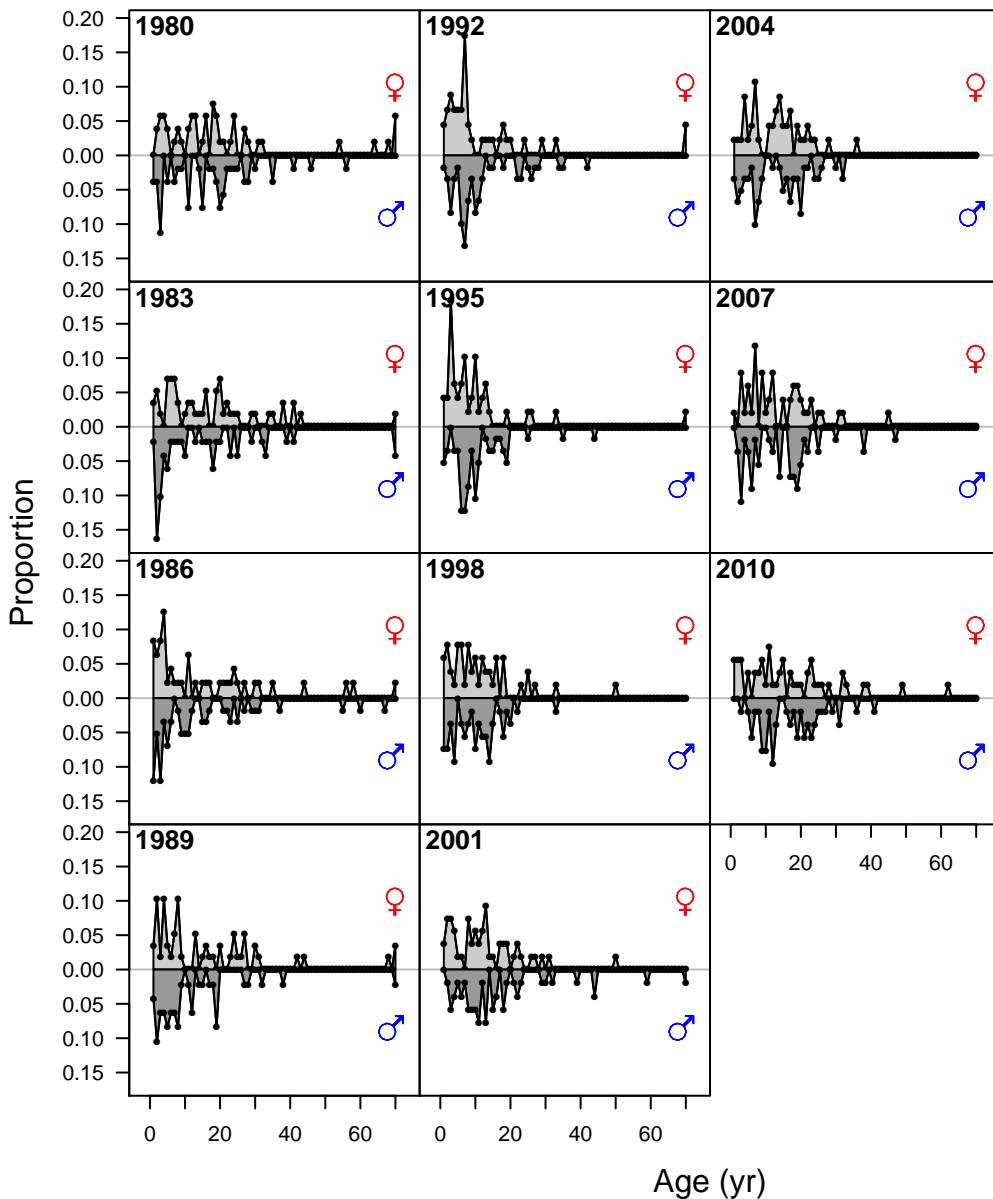
length comp data, whole catch, survey1 (max=0.1)



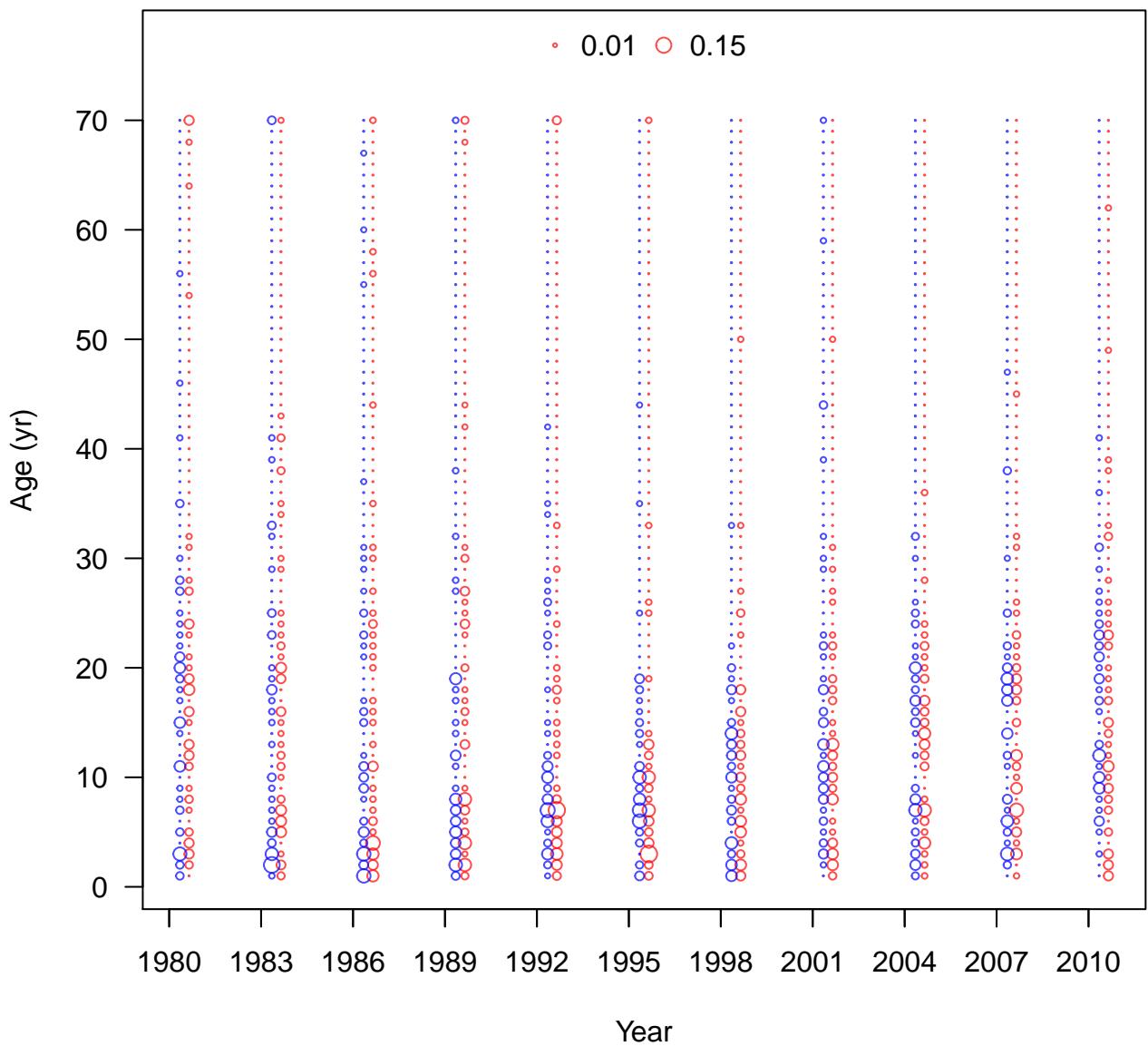
survey1 (whole catch)



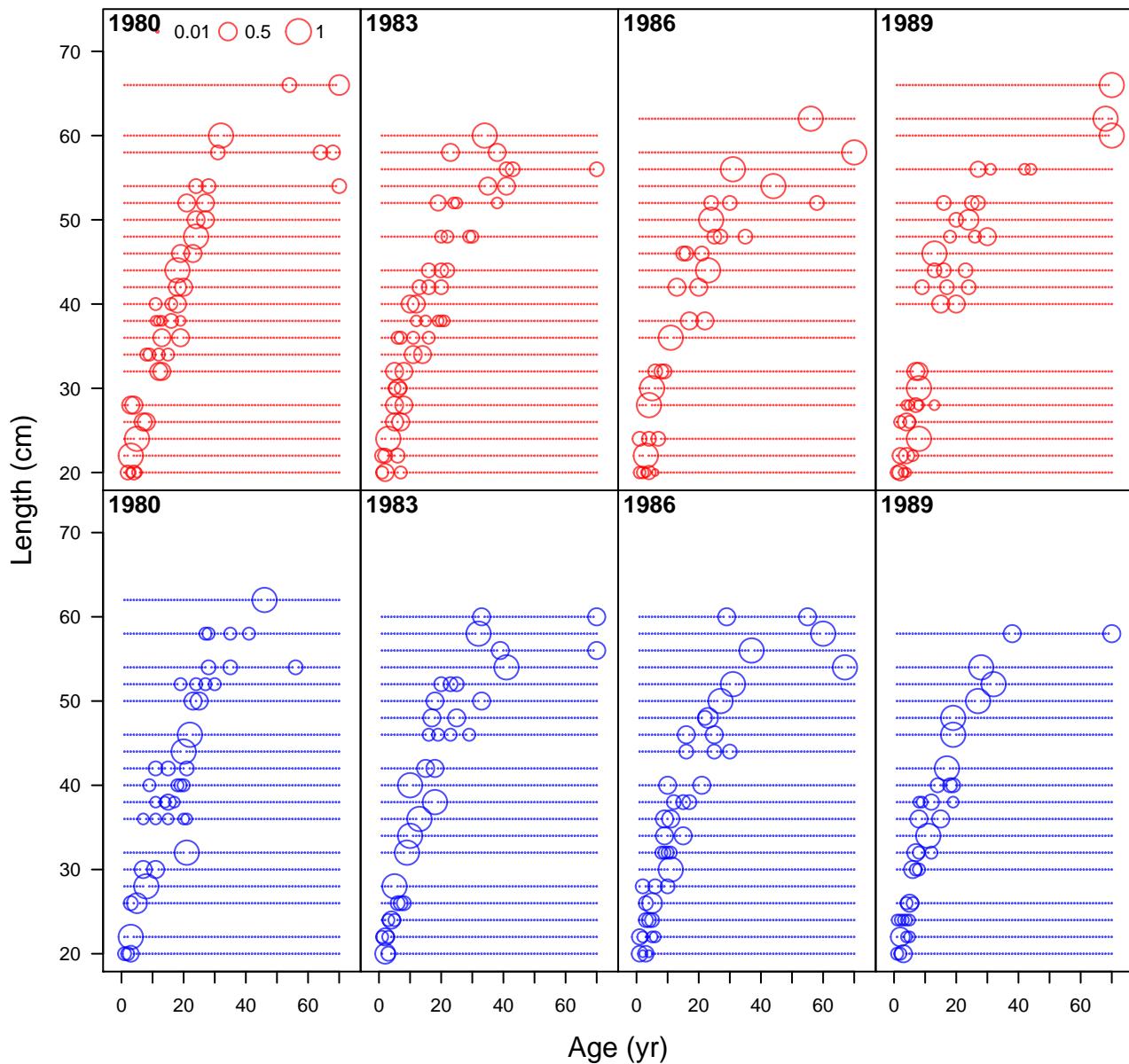
ghost age comp data, whole catch, survey1



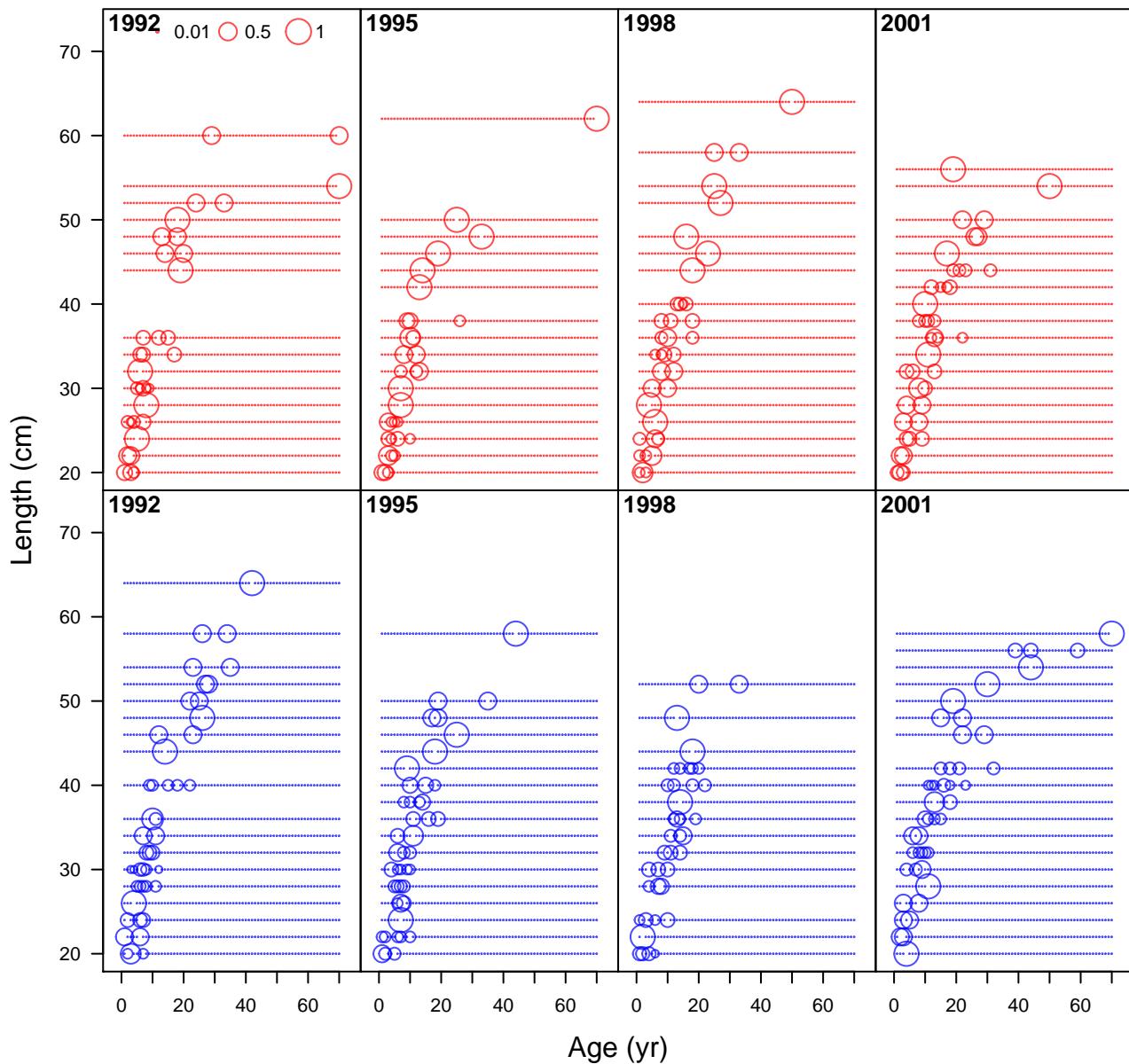
ghost age comp data, whole catch, survey1 (max=0.18)



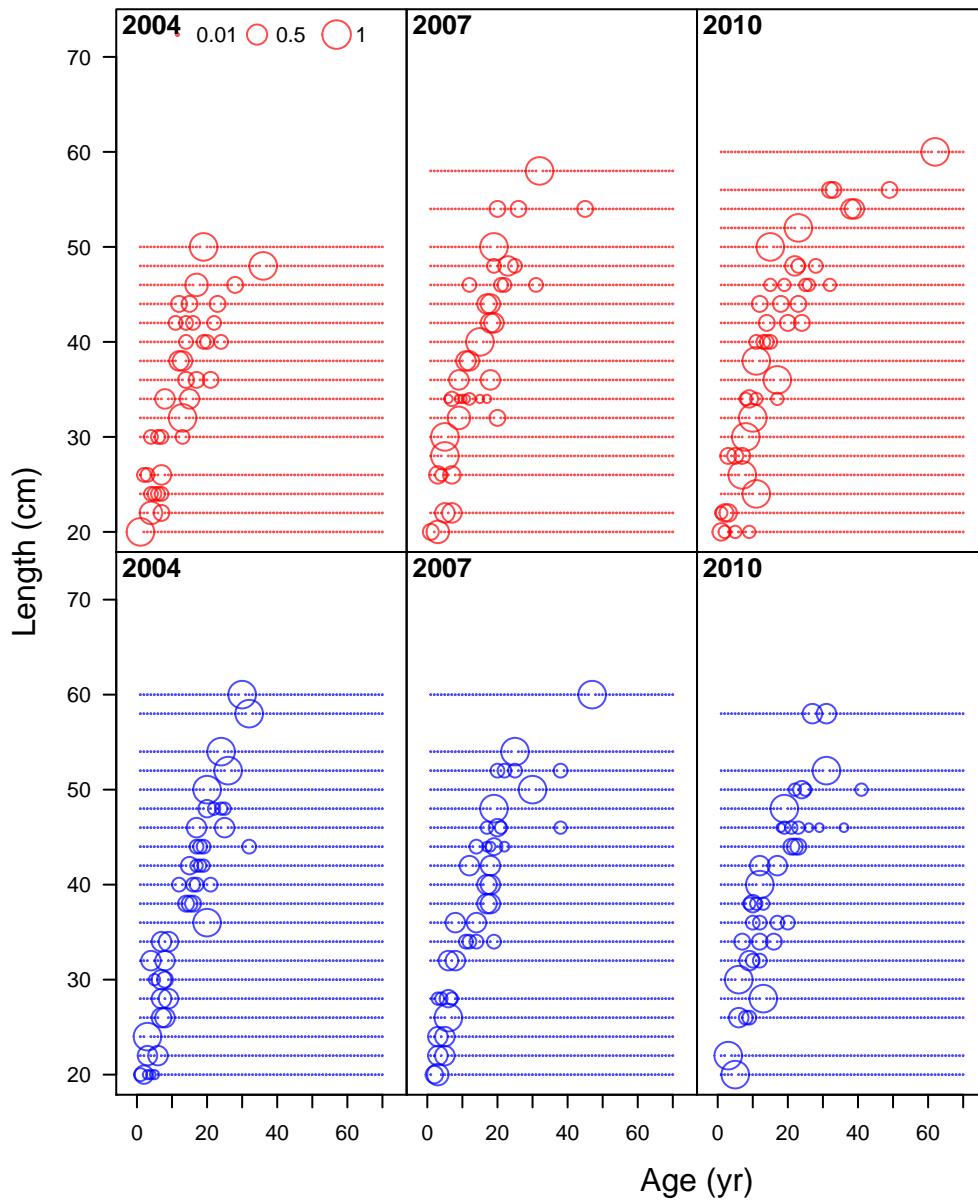
conditional age-at-length data, whole catch, survey1 (max=0.94)



conditional age-at-length data, whole catch, survey1 (max=0.94)

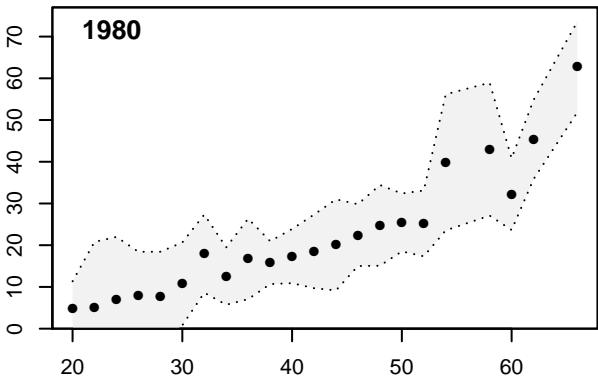


conditional age-at-length data, whole catch, survey1 (max=0.94)

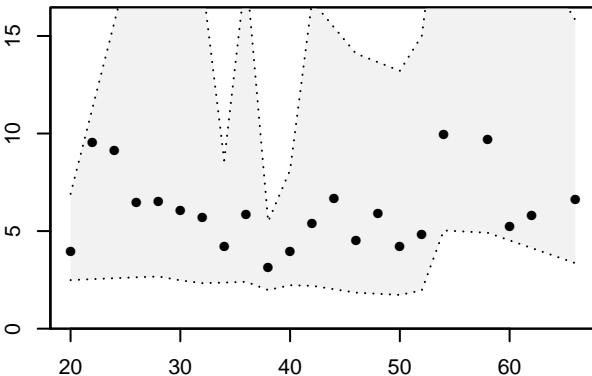


Conditional AAL plot, whole catch, survey1

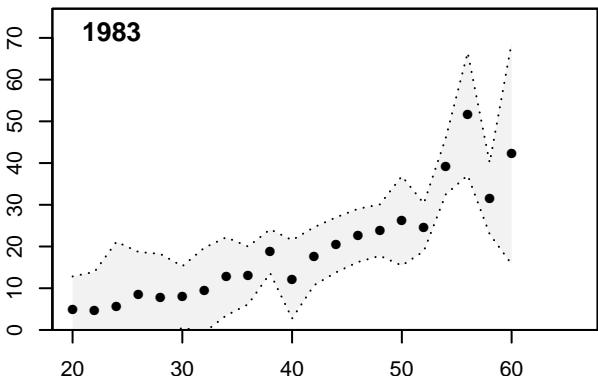
Age



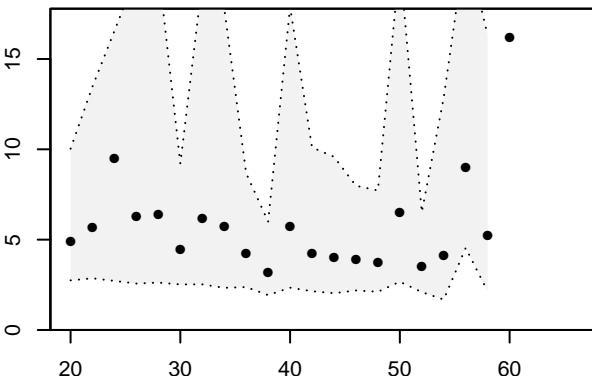
Age



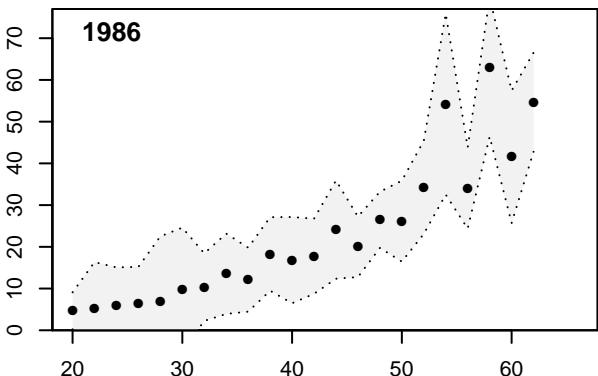
Age



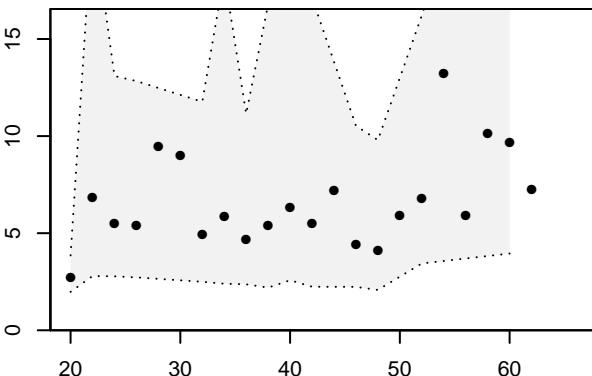
Age



Age

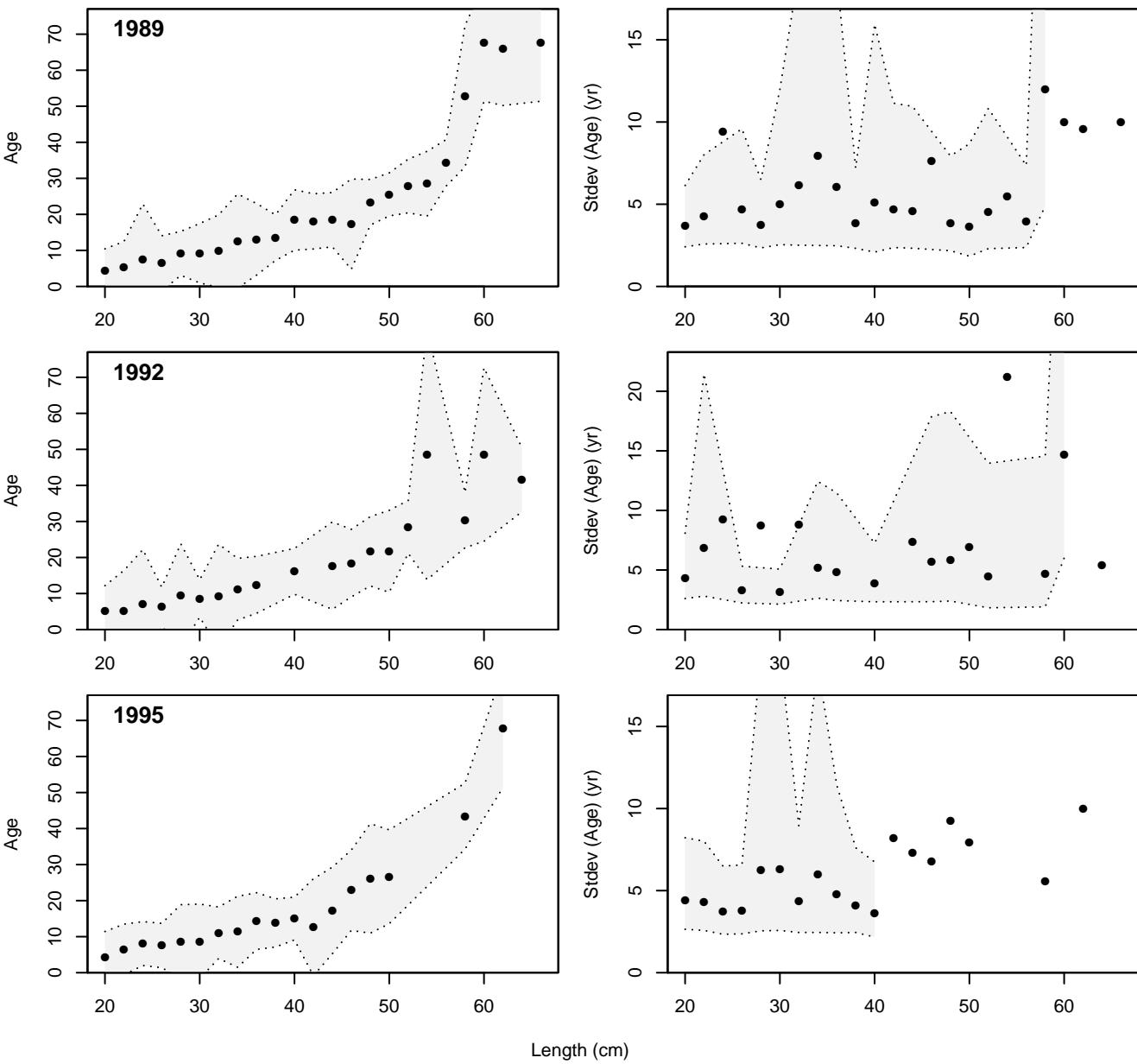


Age

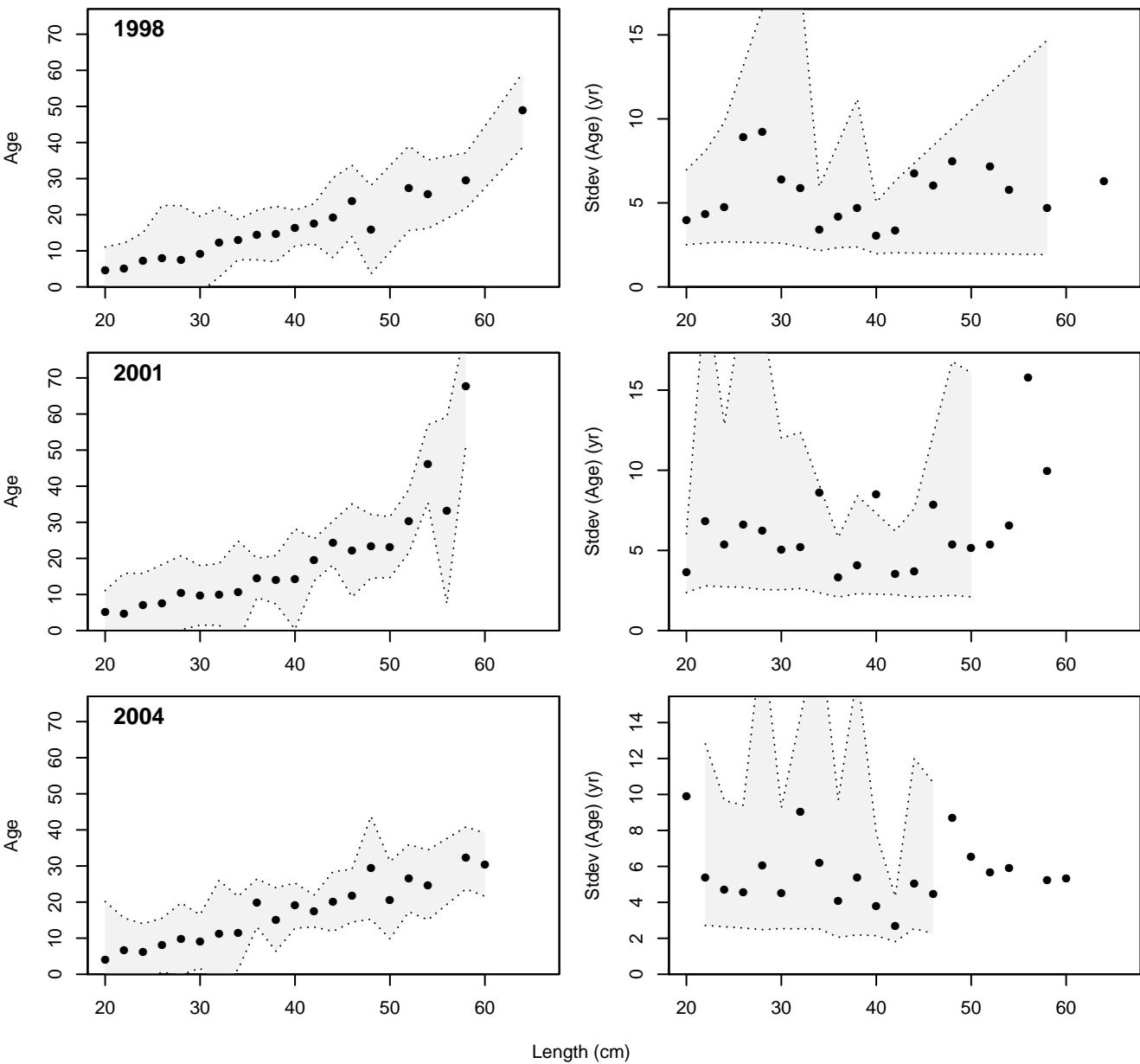


Length (cm)

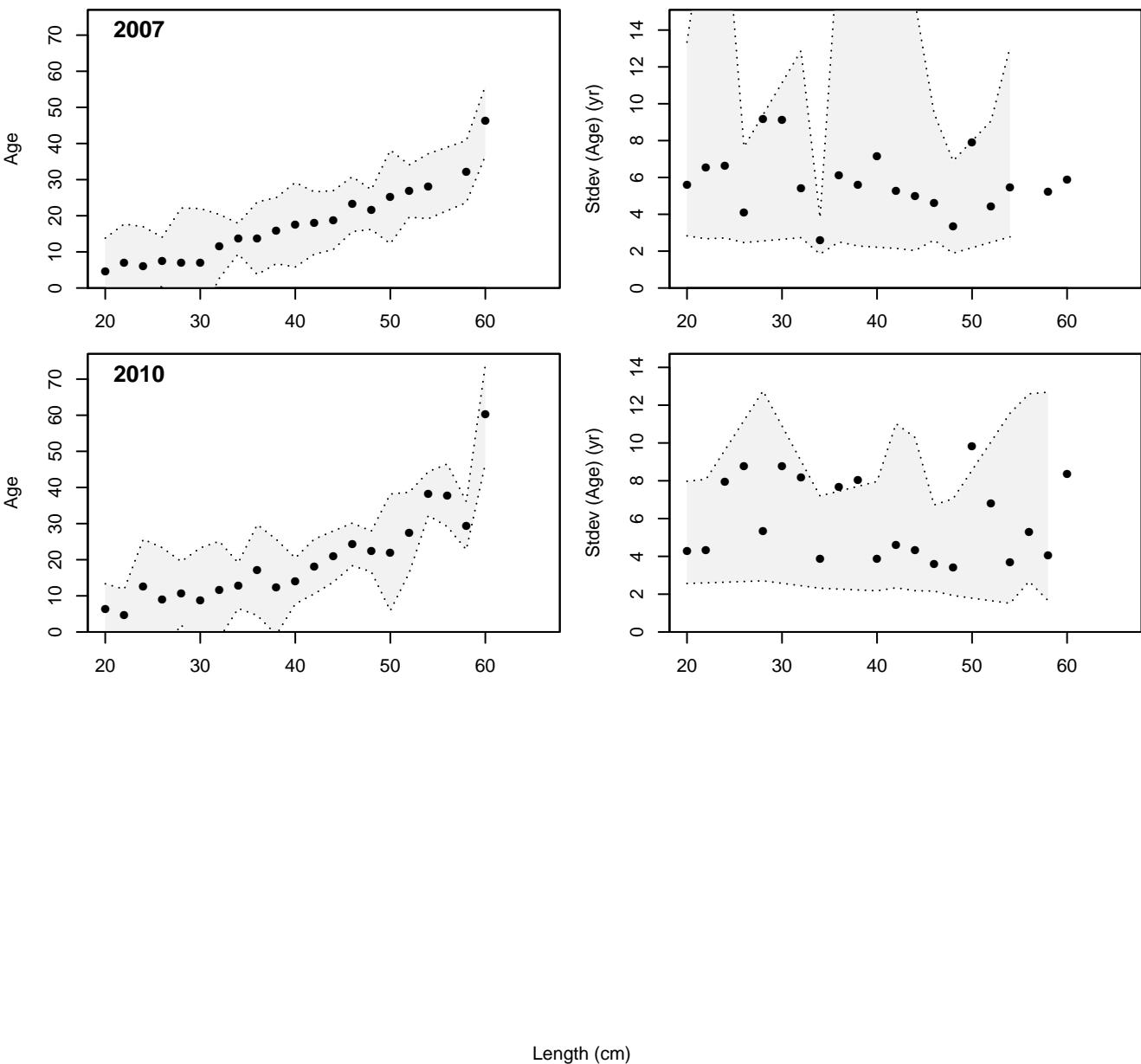
Conditional AAL plot, whole catch, survey1



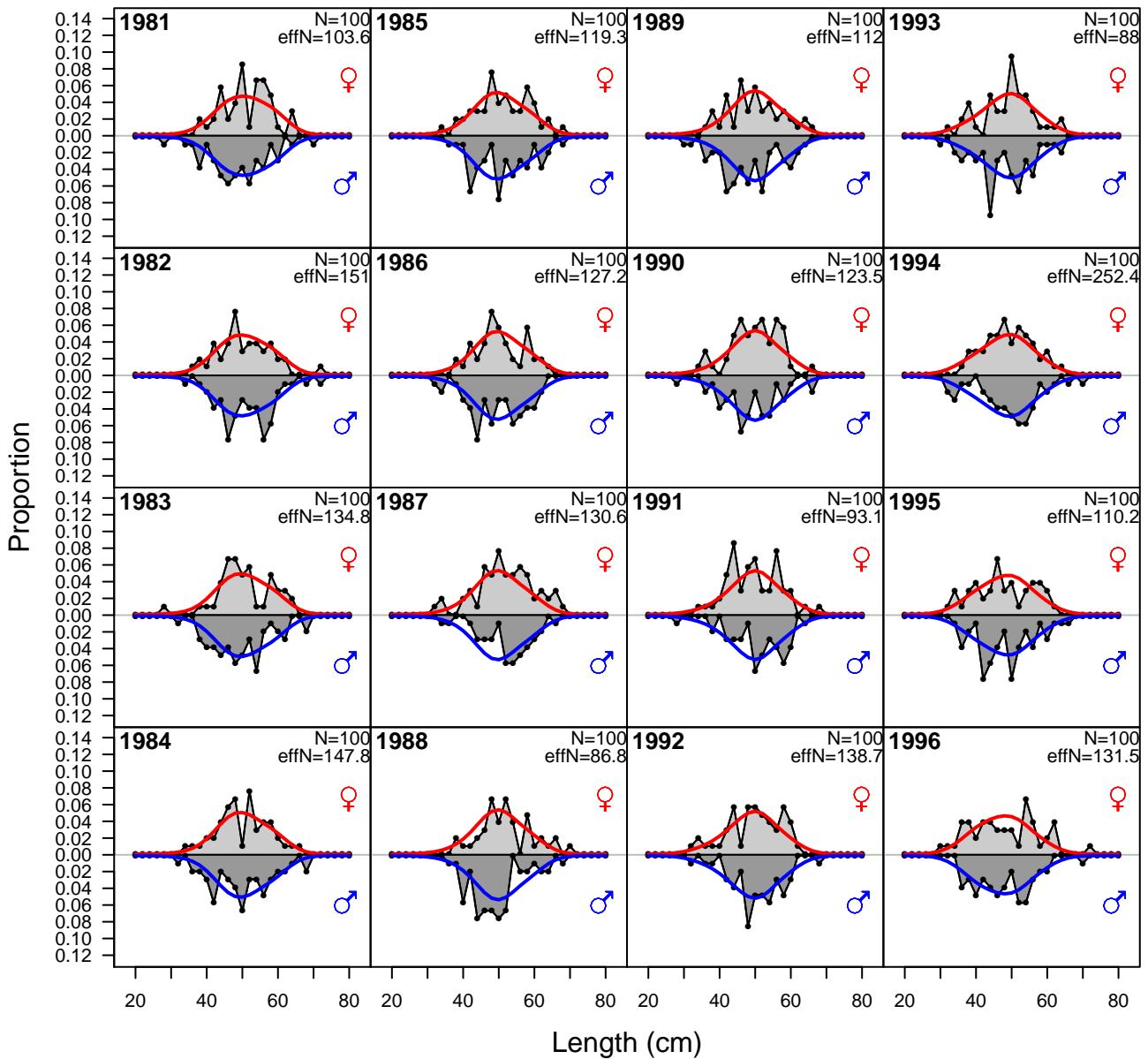
Conditional AAL plot, whole catch, survey1



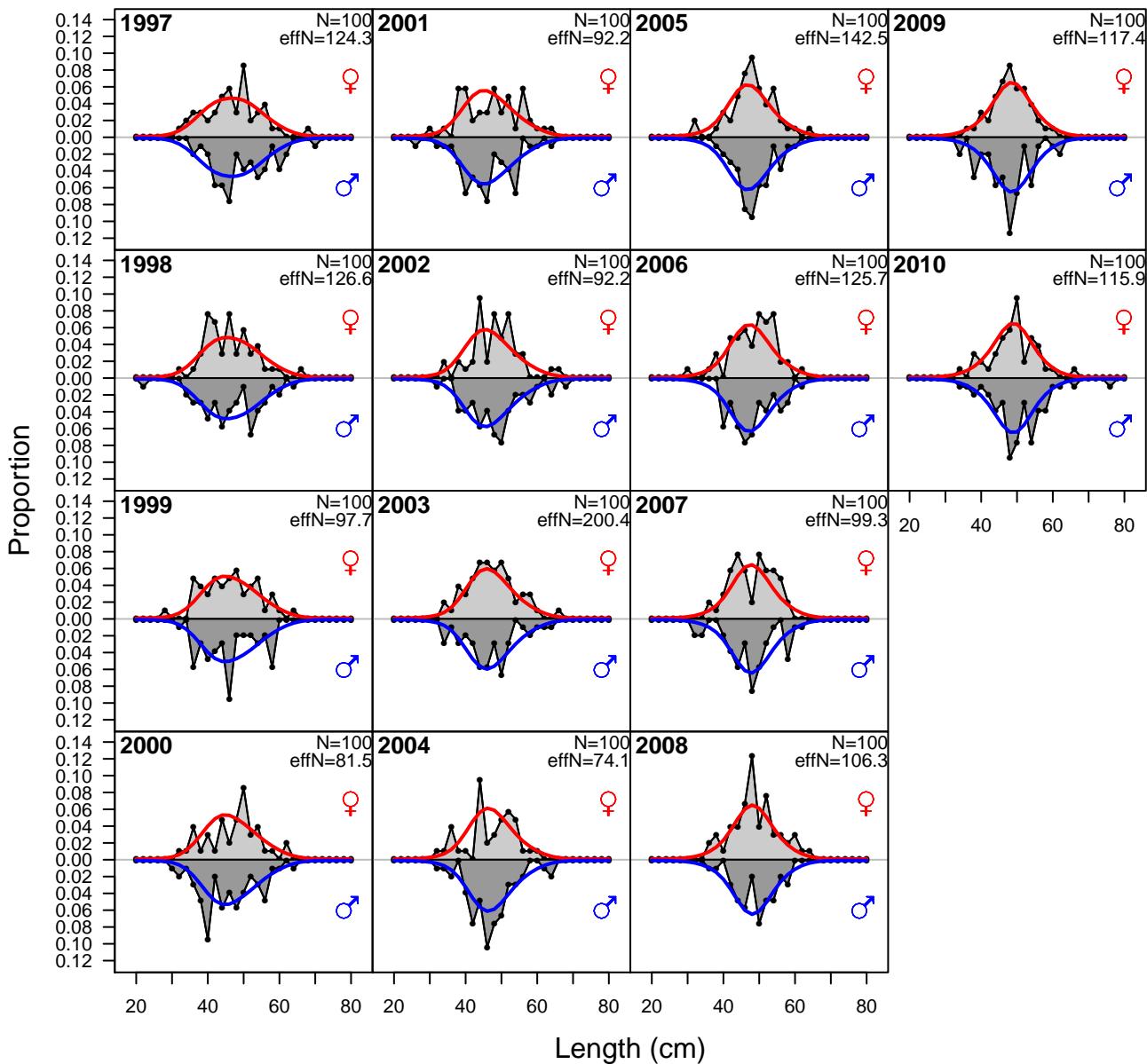
Conditional AAL plot, whole catch, survey1



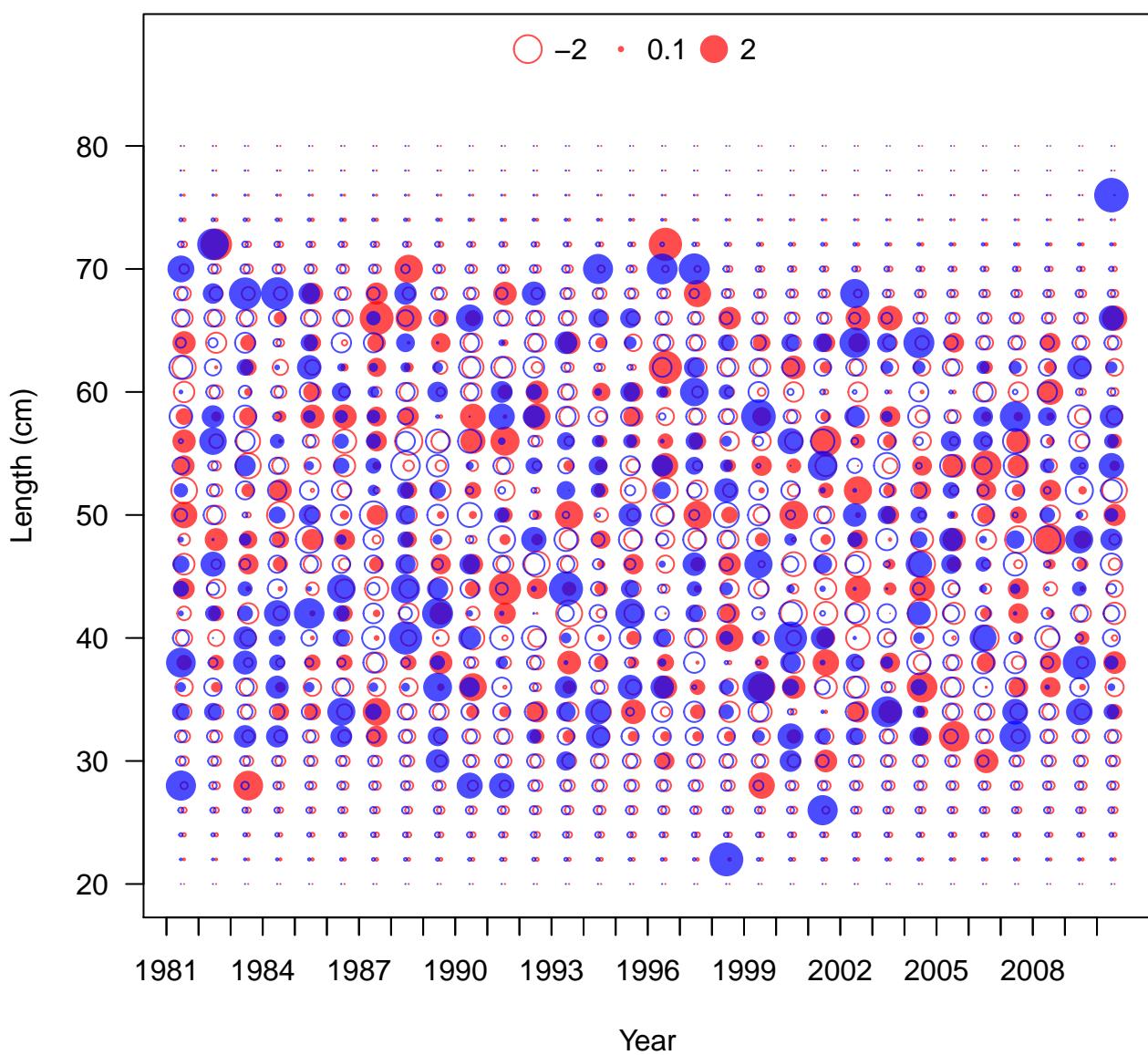
length comps, whole catch, fishery1



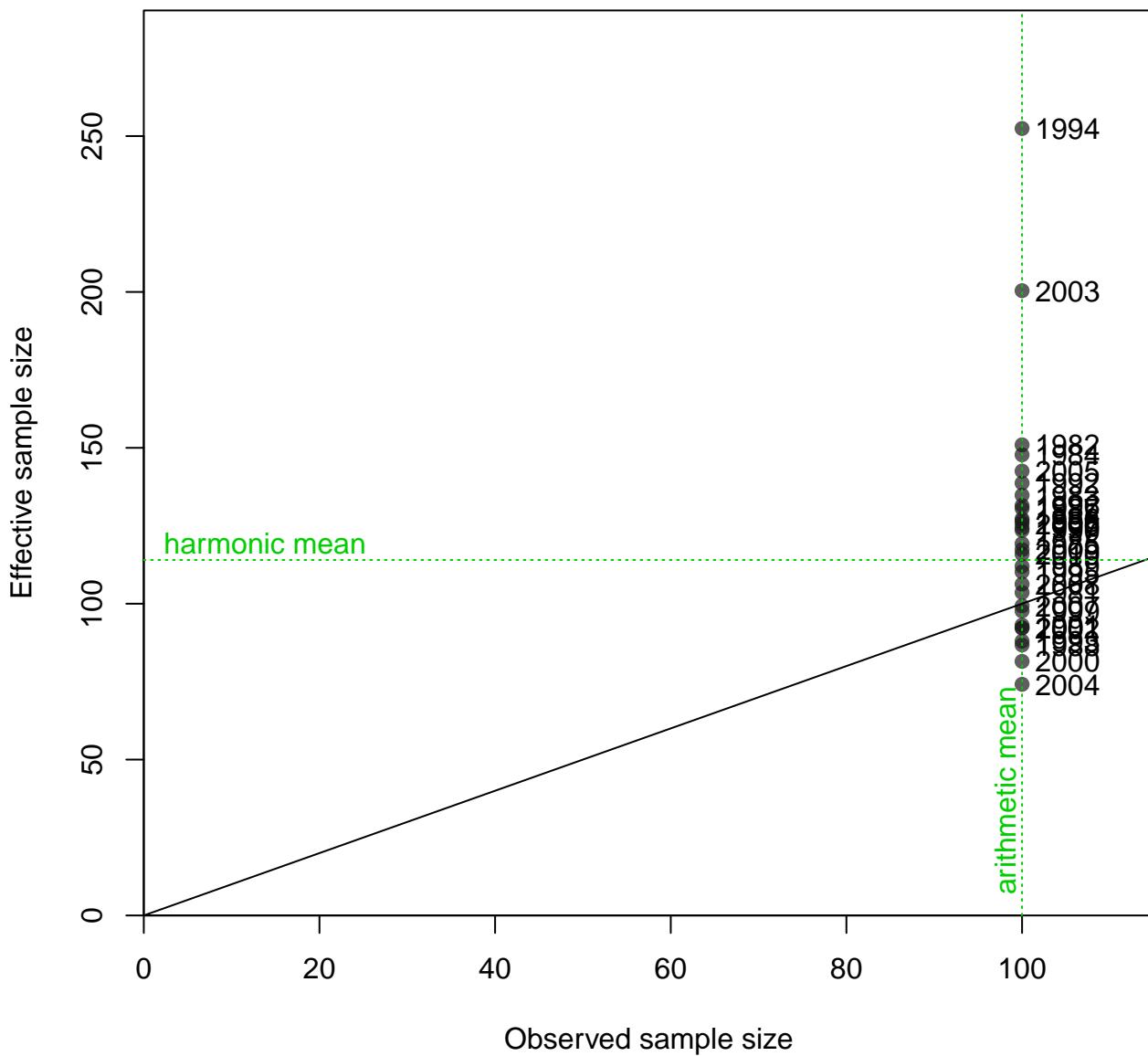
length comps, whole catch, fishery1



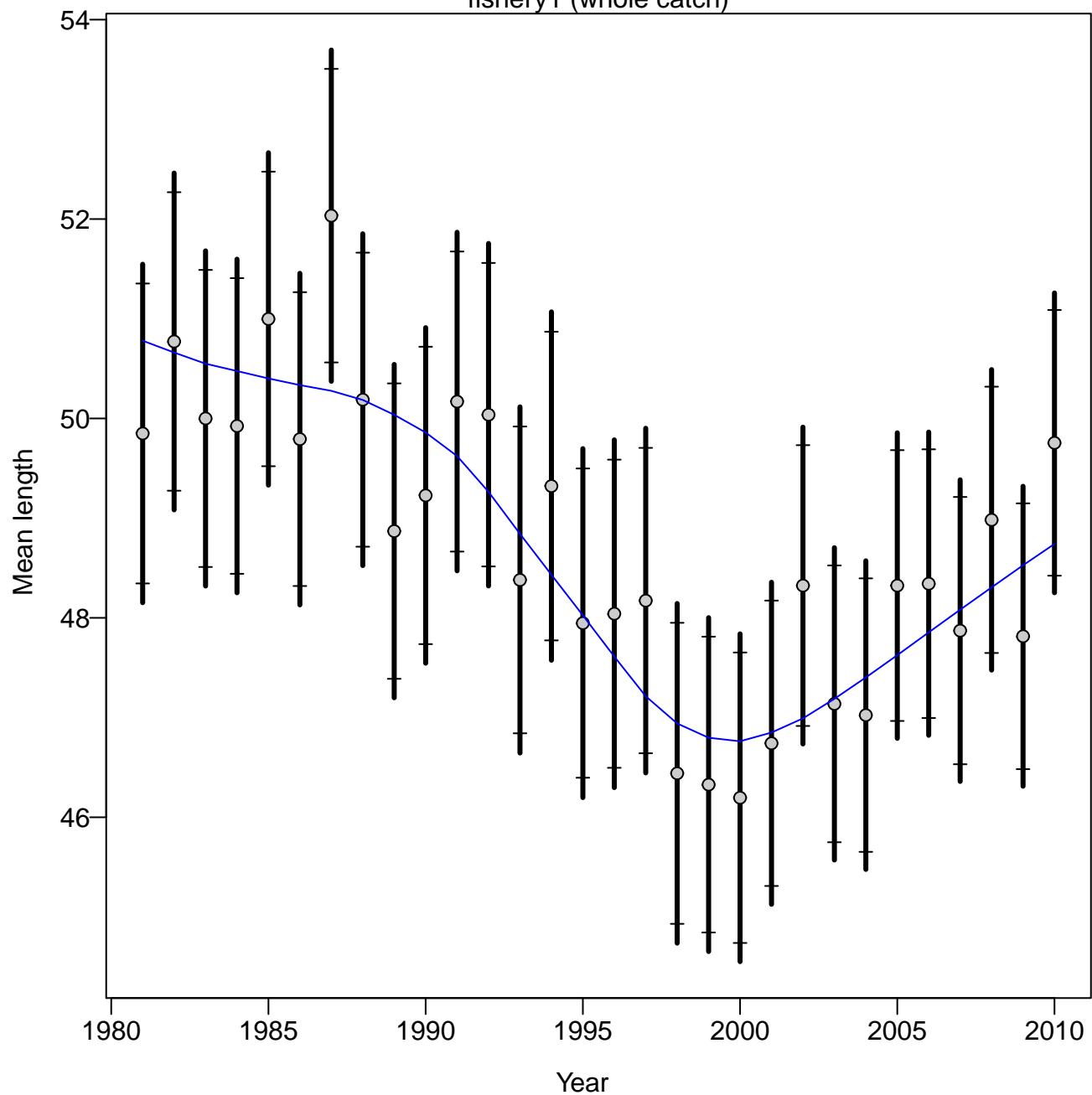
Pearson residuals, whole catch, fishery1 (max=3.09)



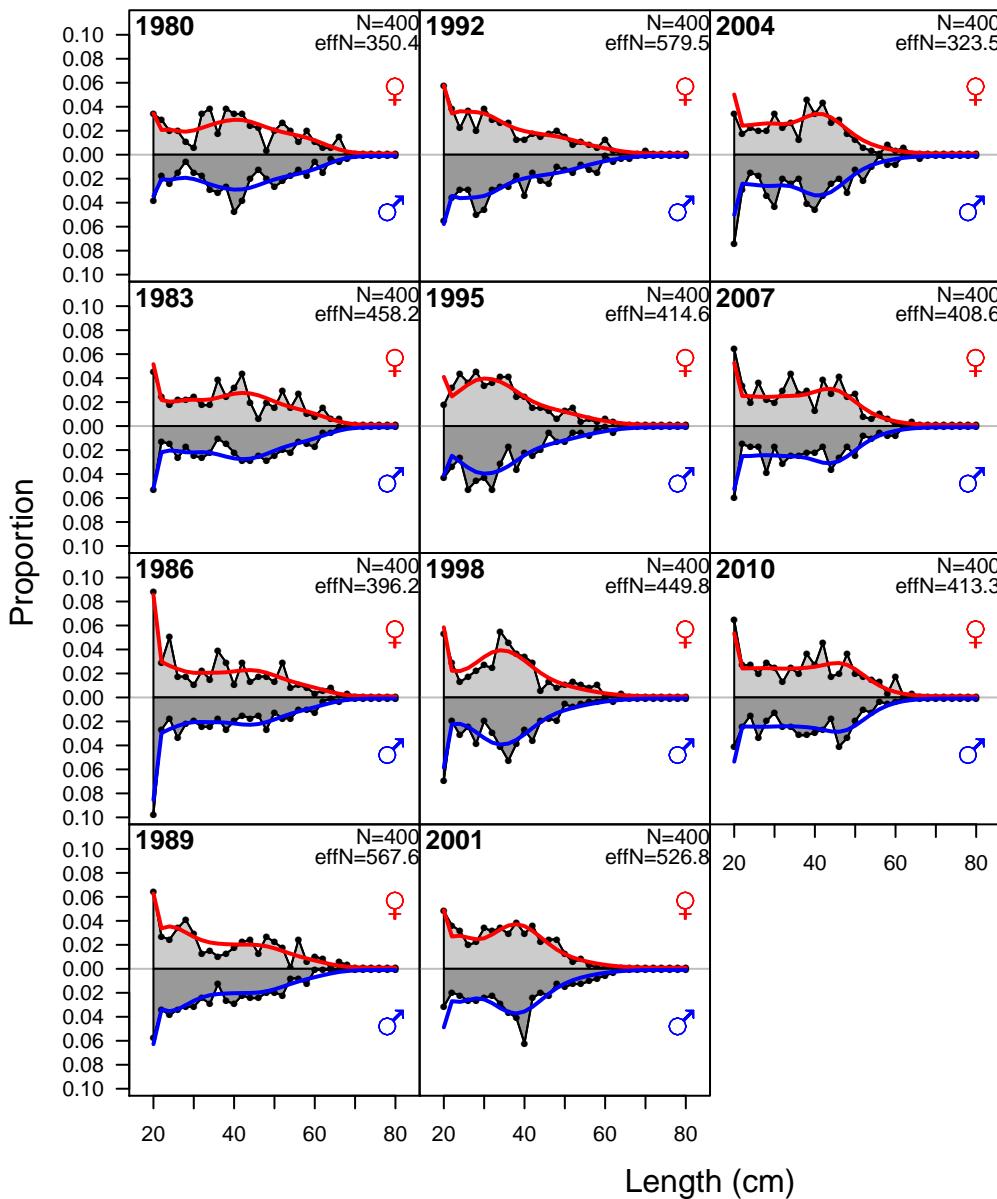
N-EffN comparison, length comps, whole catch, fishery1



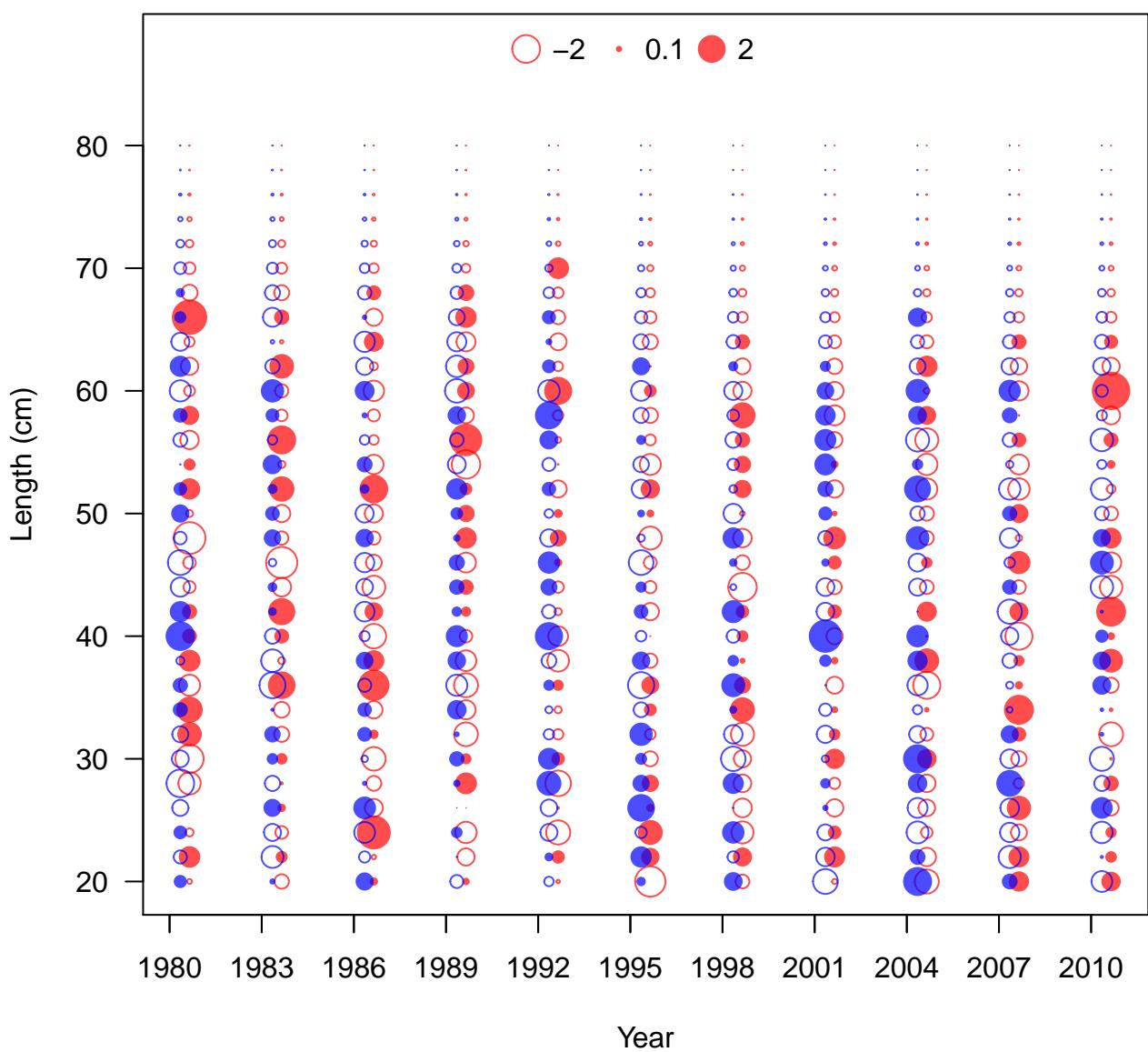
fishery1 (whole catch)



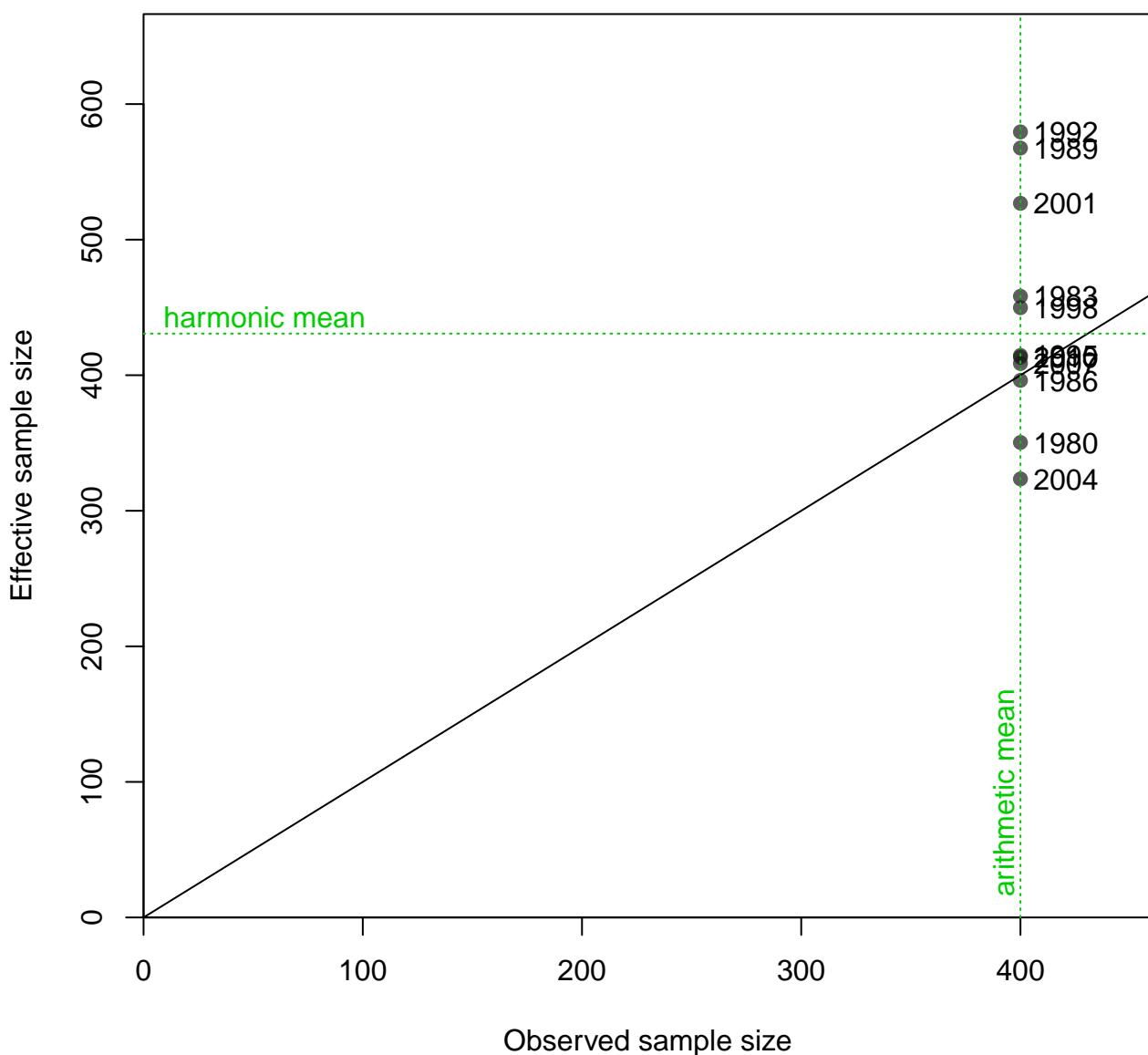
length comps, whole catch, survey1



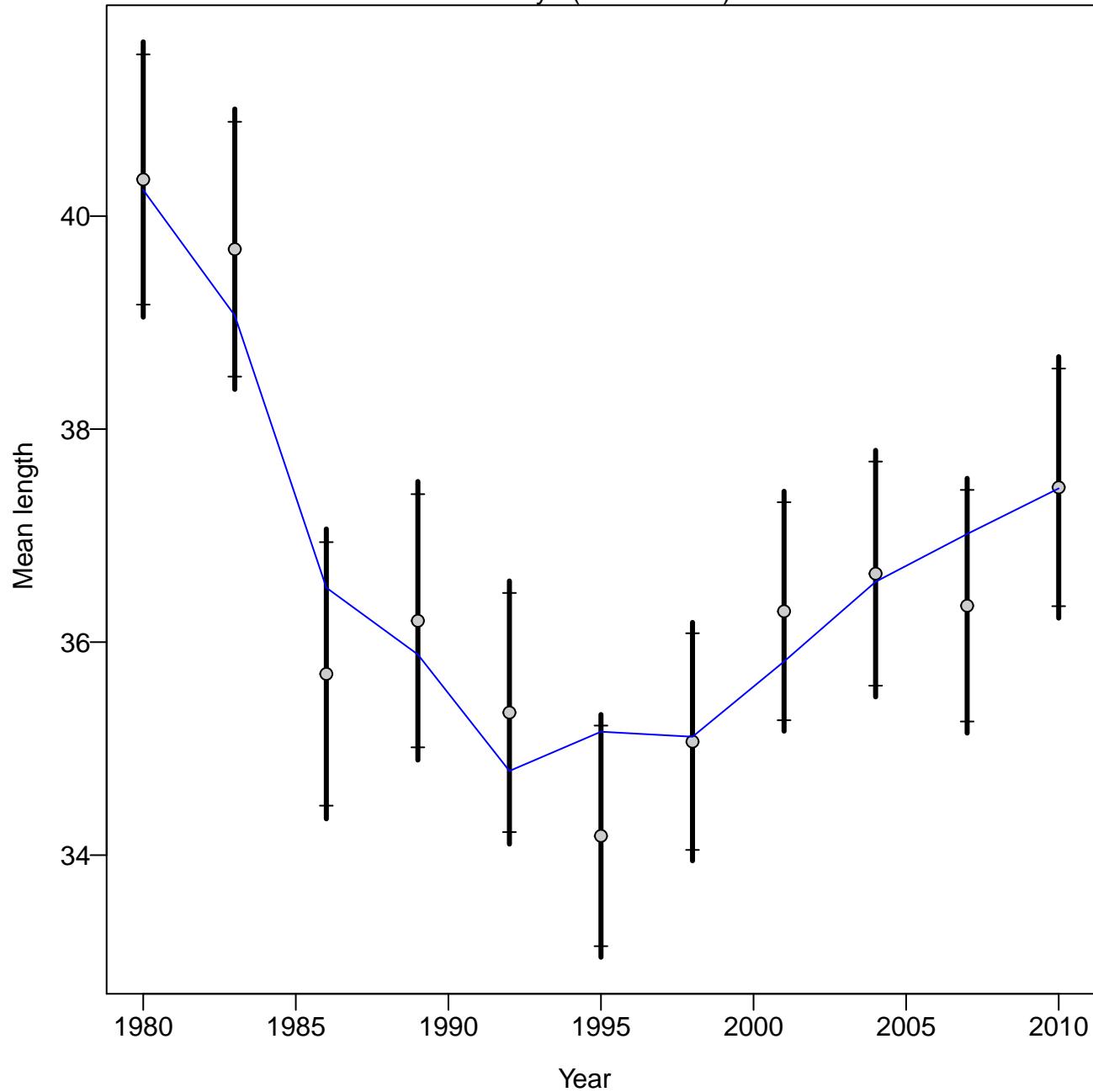
Pearson residuals, whole catch, survey1 (max=3.82)



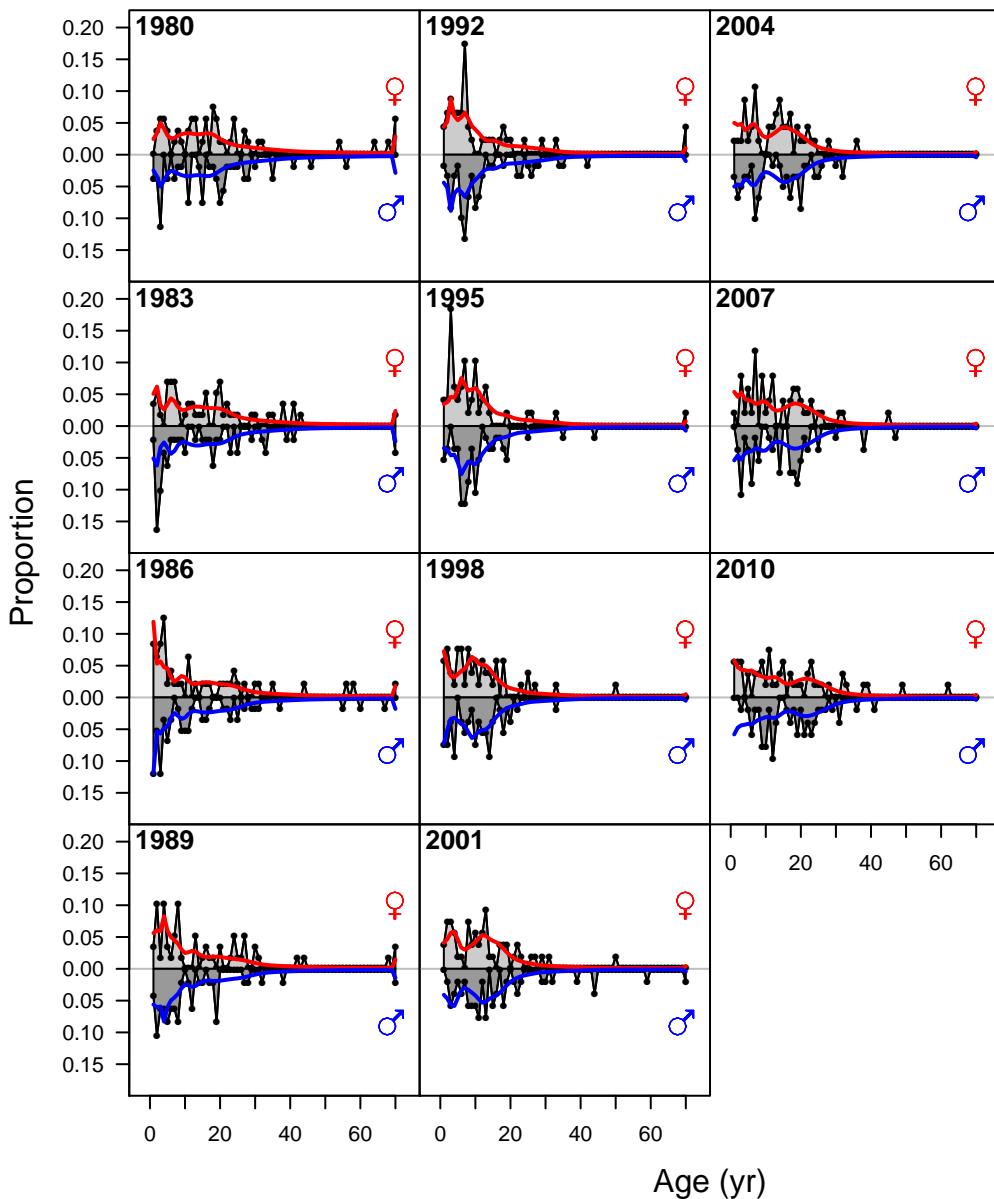
N-EffN comparison, length comps, whole catch, survey1



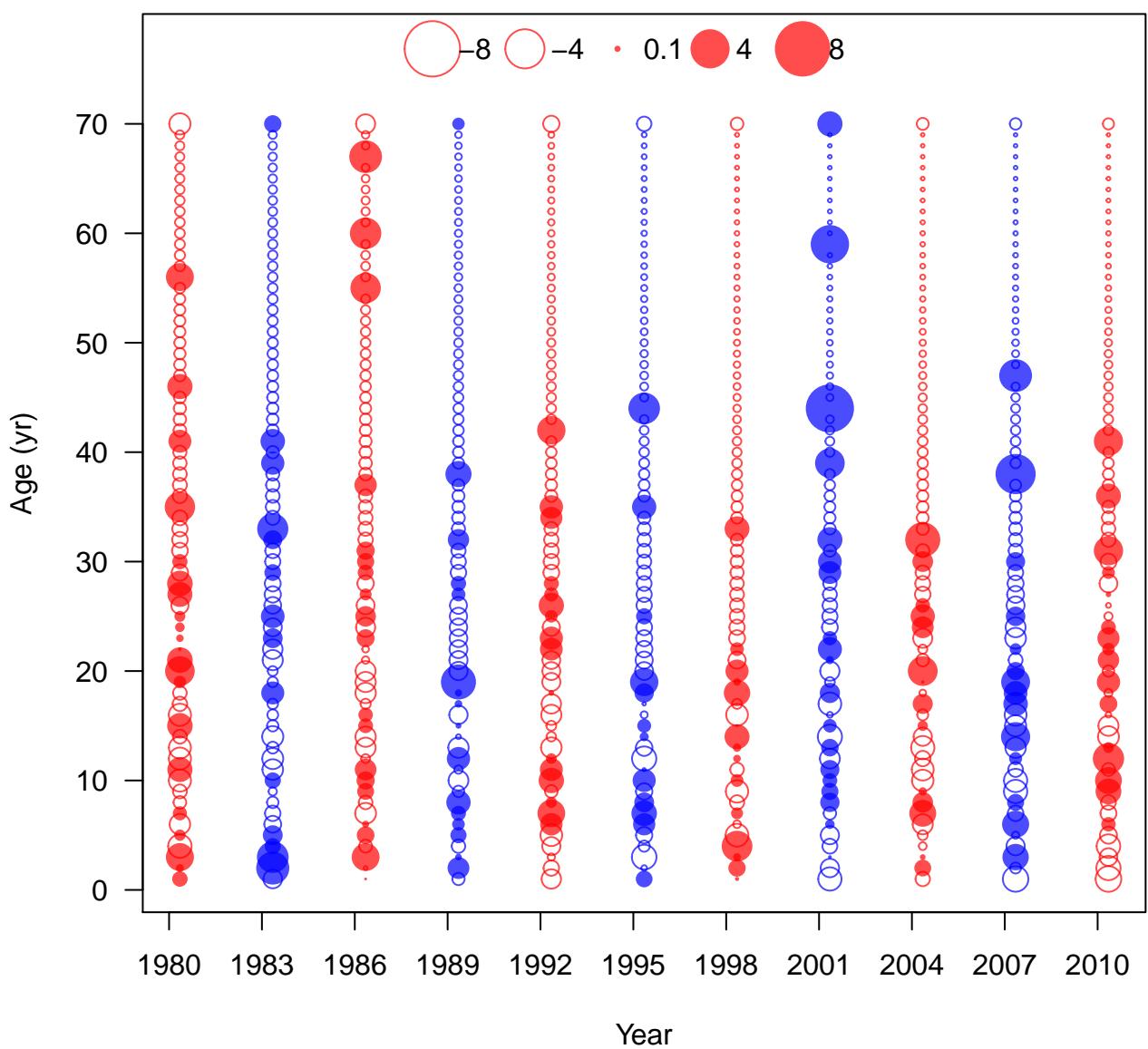
survey1 (whole catch)



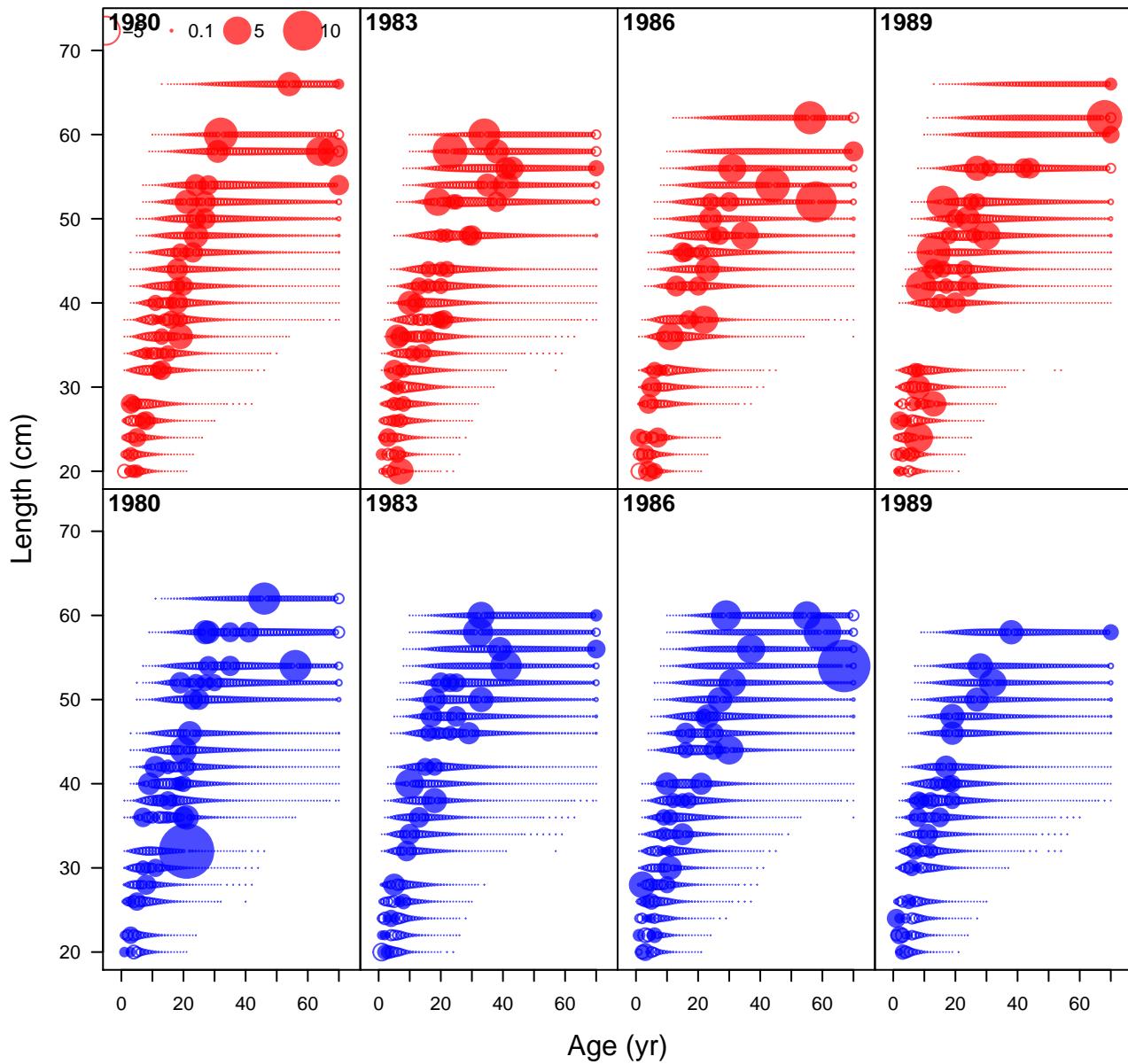
ghost age comps, whole catch, survey1



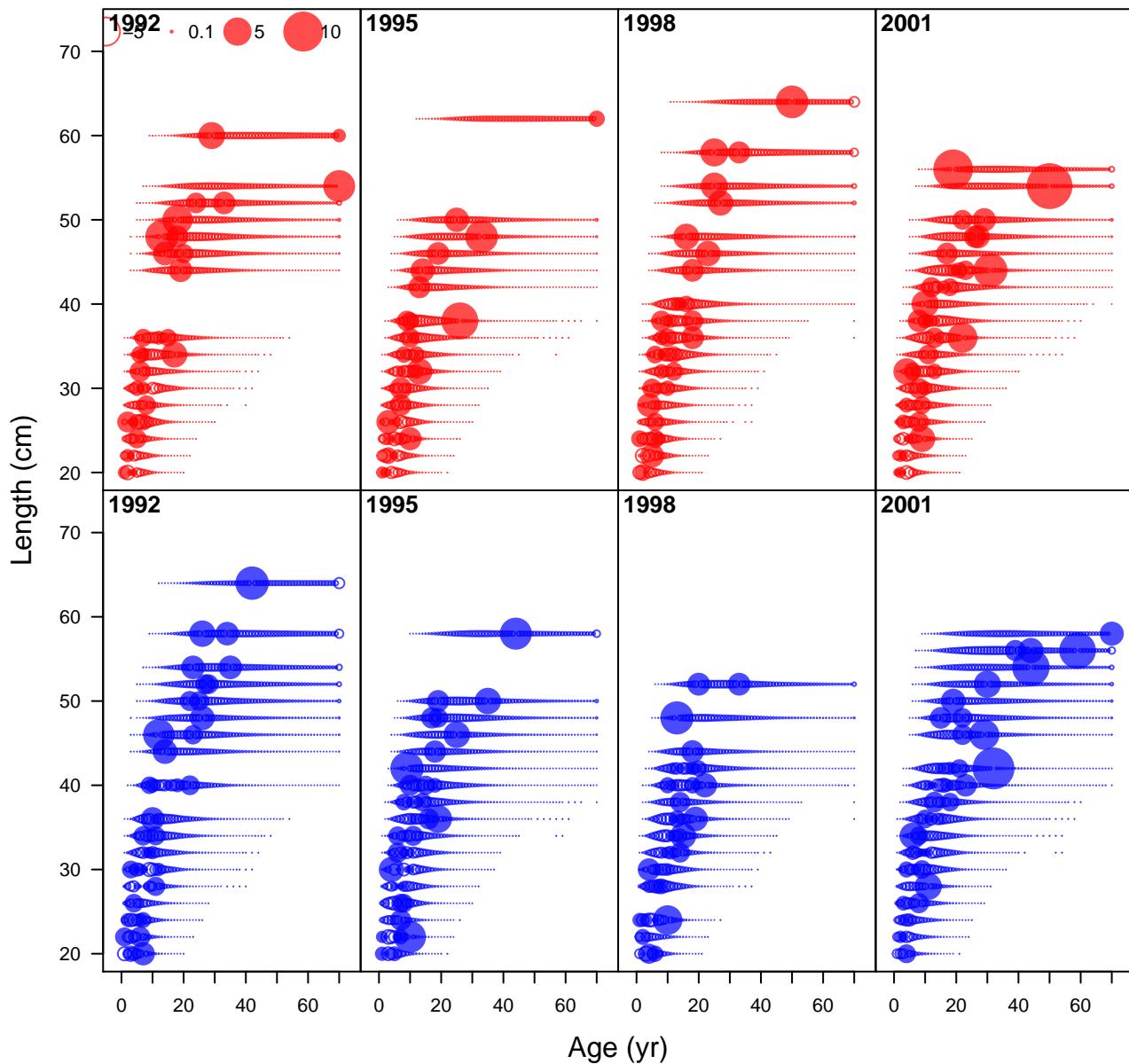
Pearson residuals, whole catch, survey1 (max=NA)



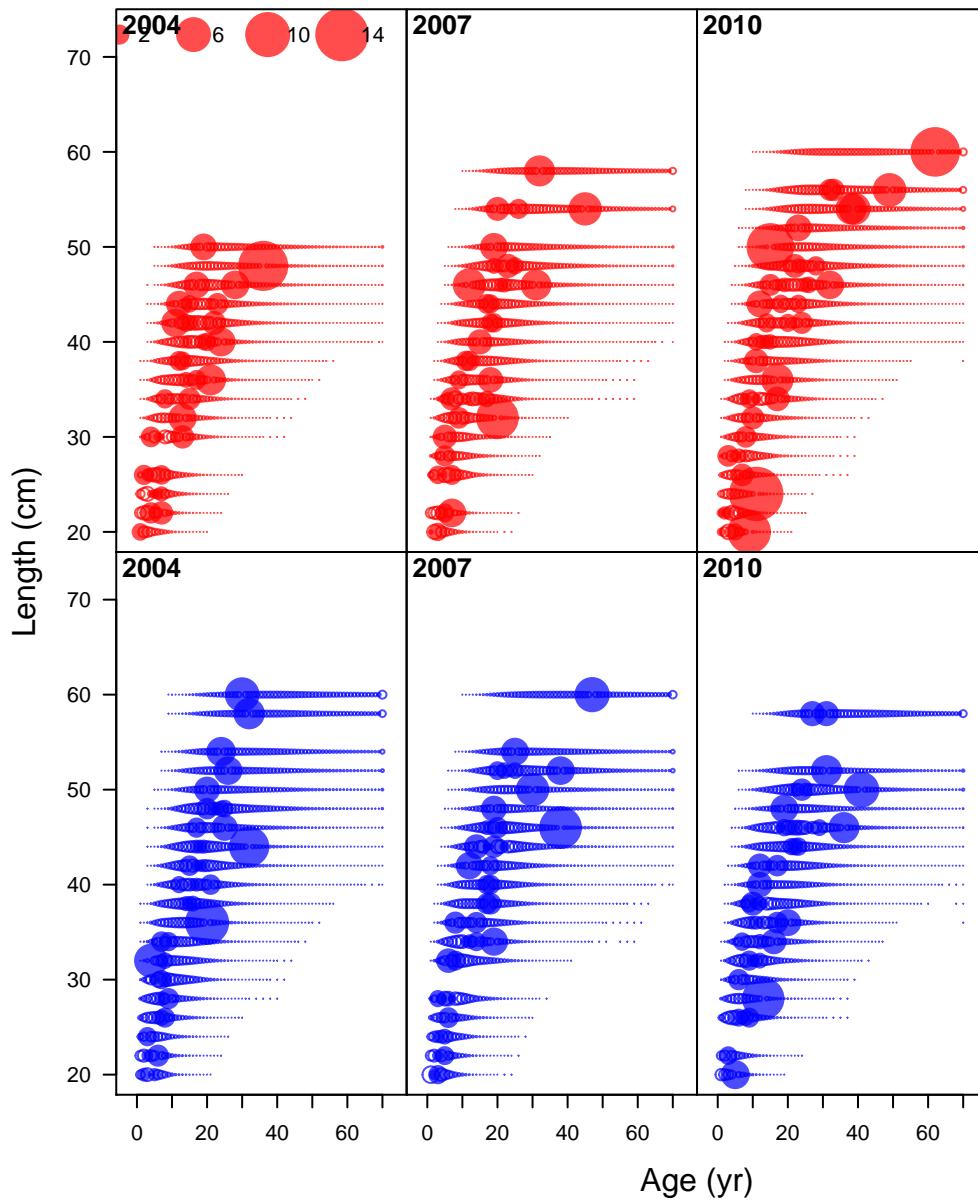
Pearson residuals, whole catch, survey1 (max=19.24)



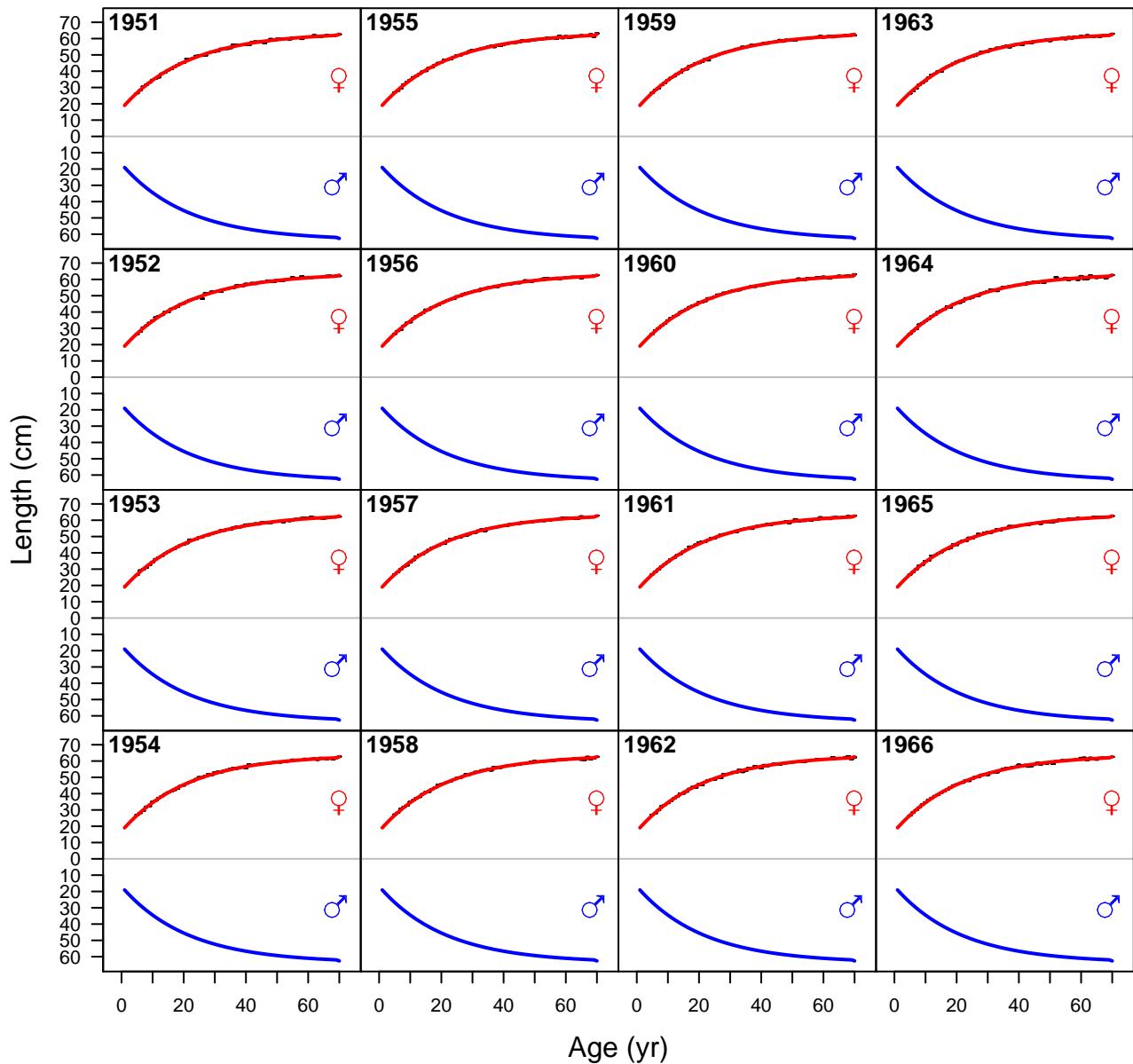
Pearson residuals, whole catch, survey1 (max=19.24)



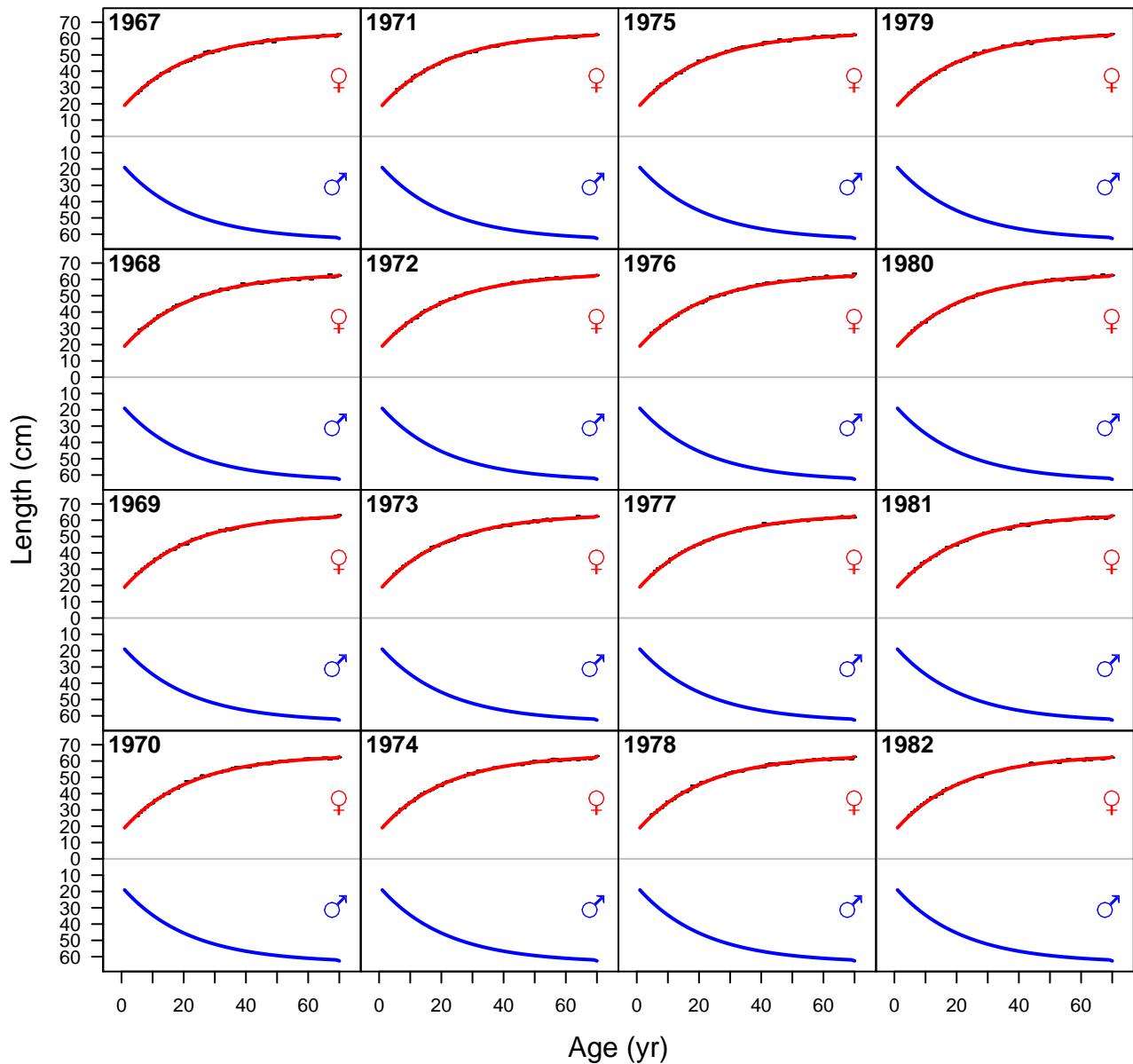
Pearson residuals, whole catch, survey1 (max=19.24)



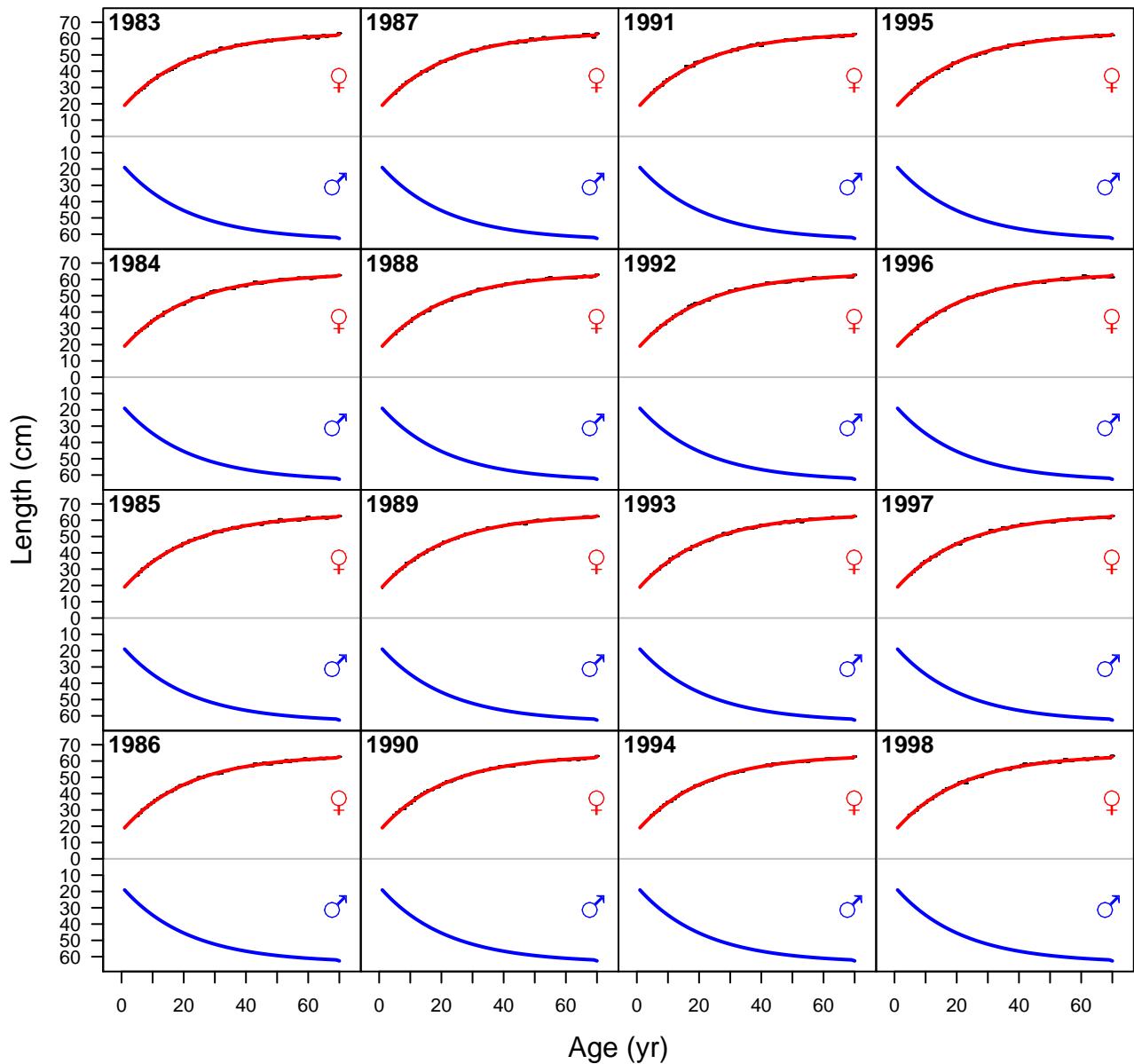
mean length at age, whole catch, survey2



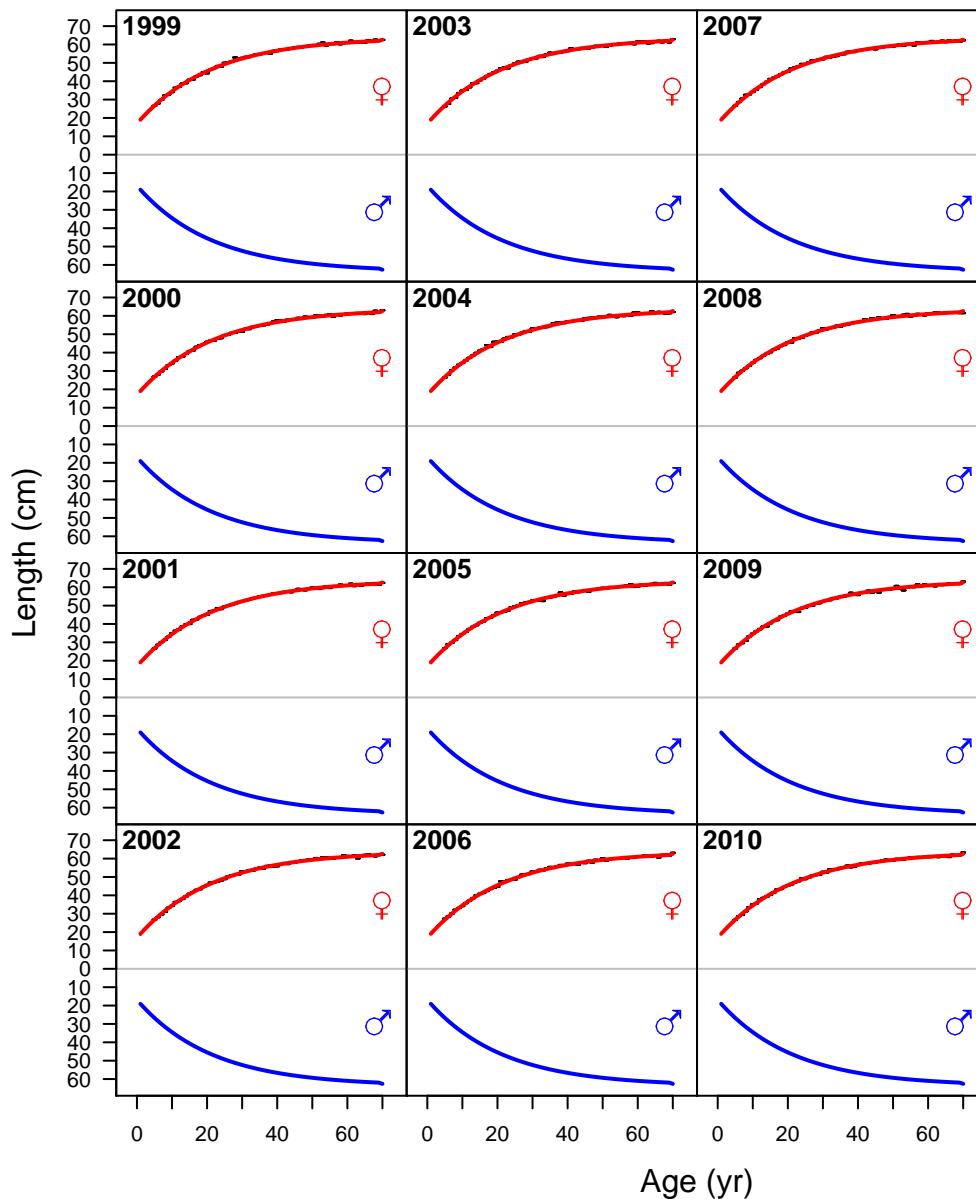
mean length at age, whole catch, survey2



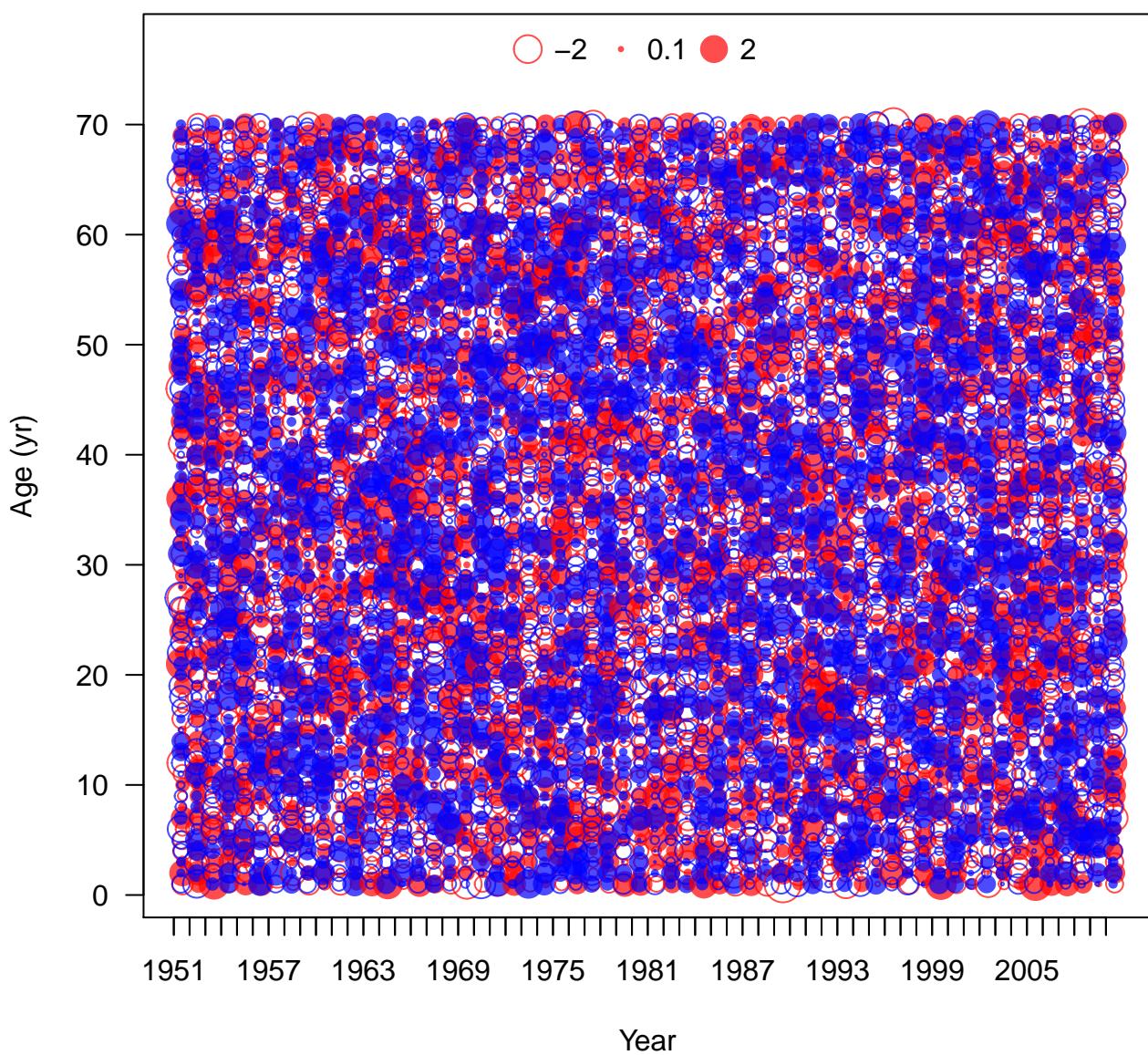
mean length at age, whole catch, survey2



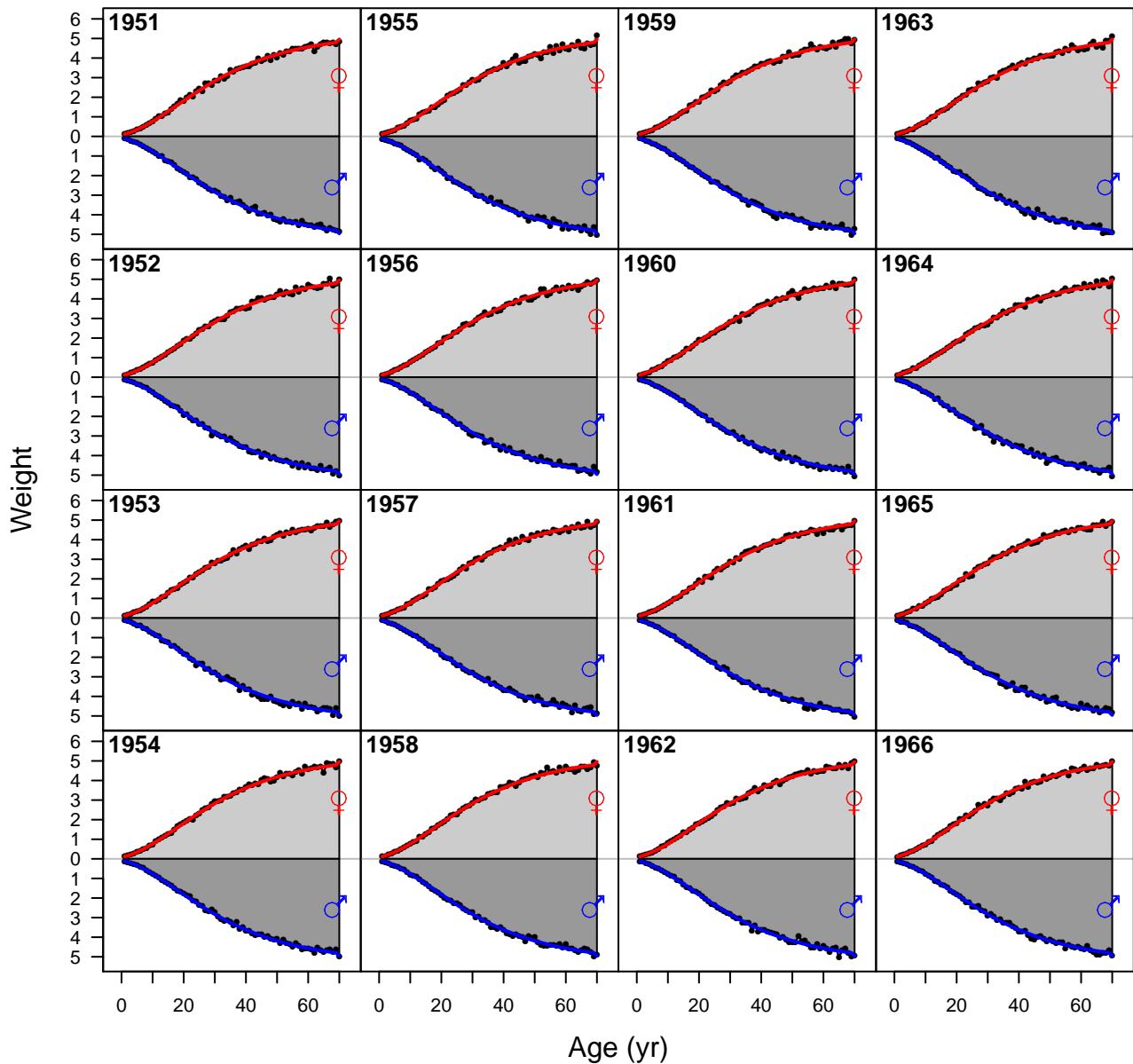
mean length at age, whole catch, survey2



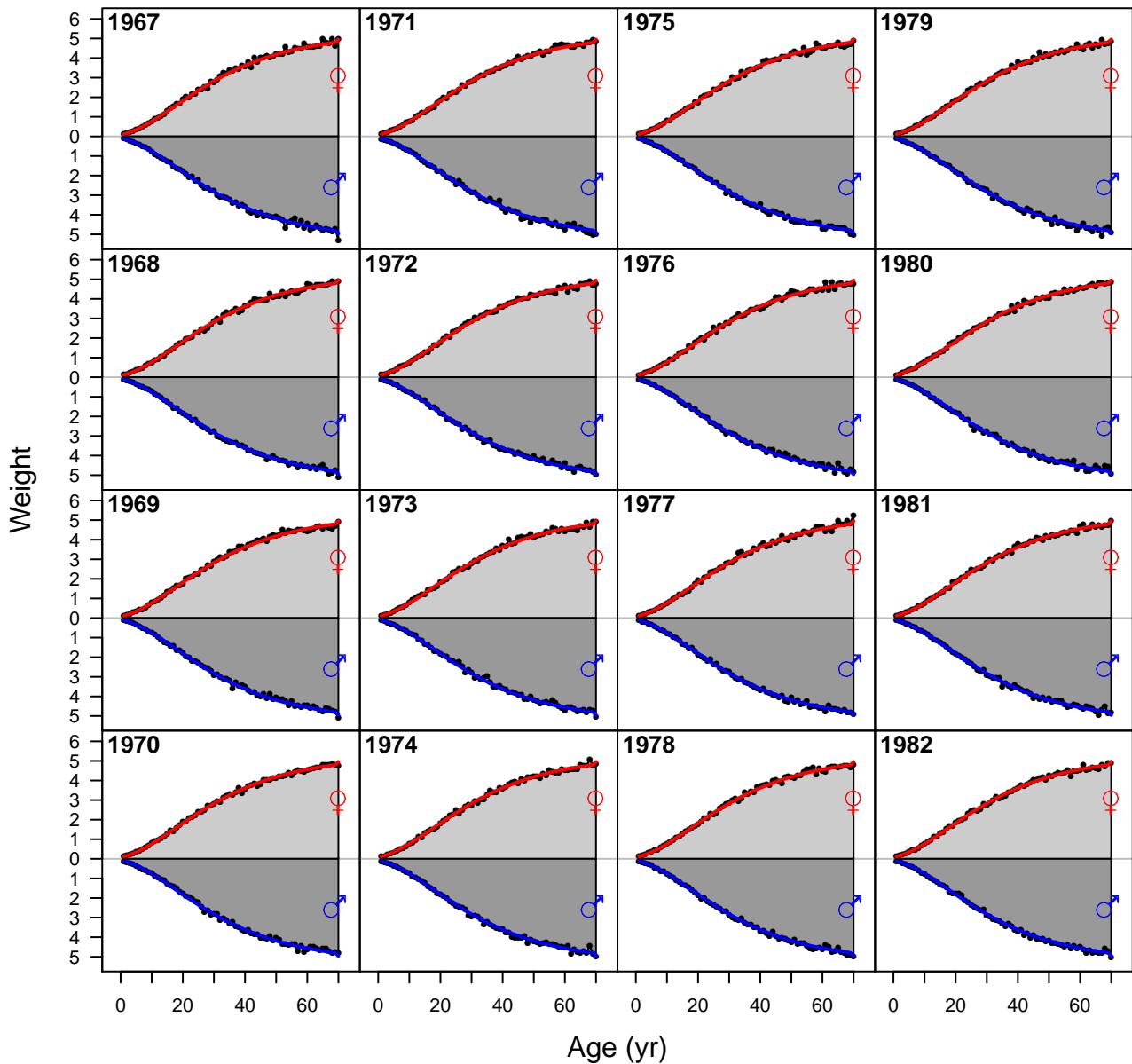
Pearson residuals, whole catch, survey2 (max=3.89)



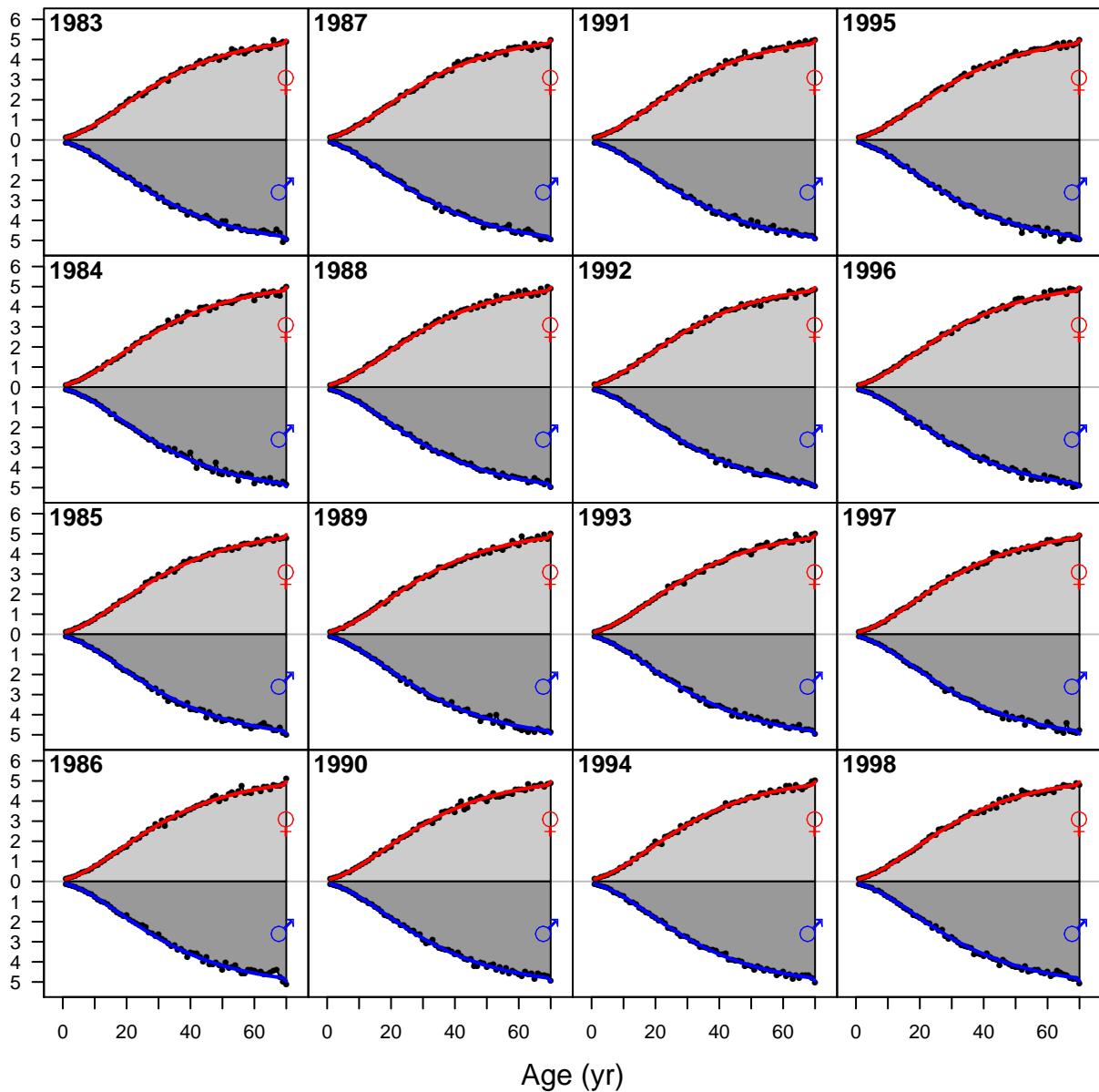
mean weight at age, whole catch, survey2



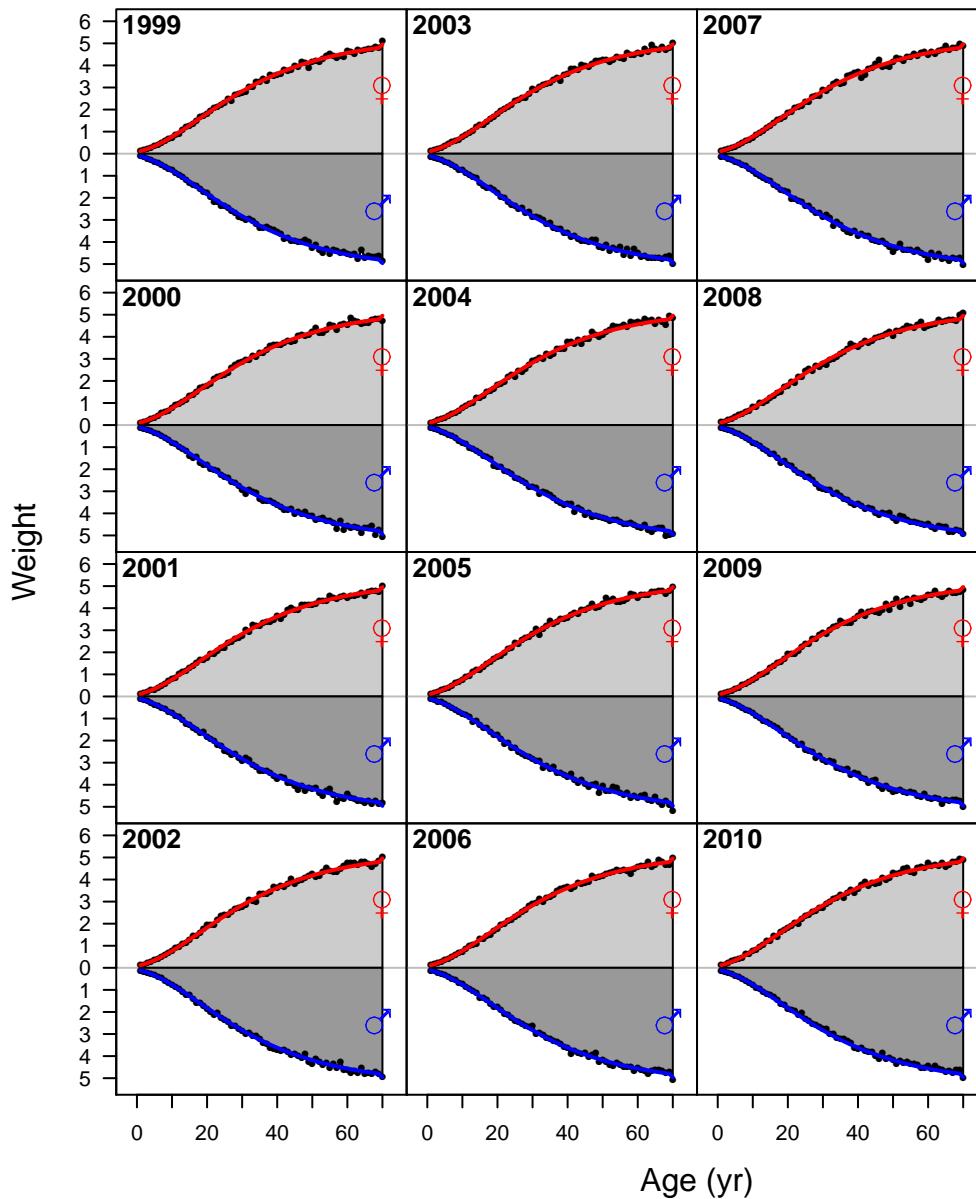
mean weight at age, whole catch, survey2



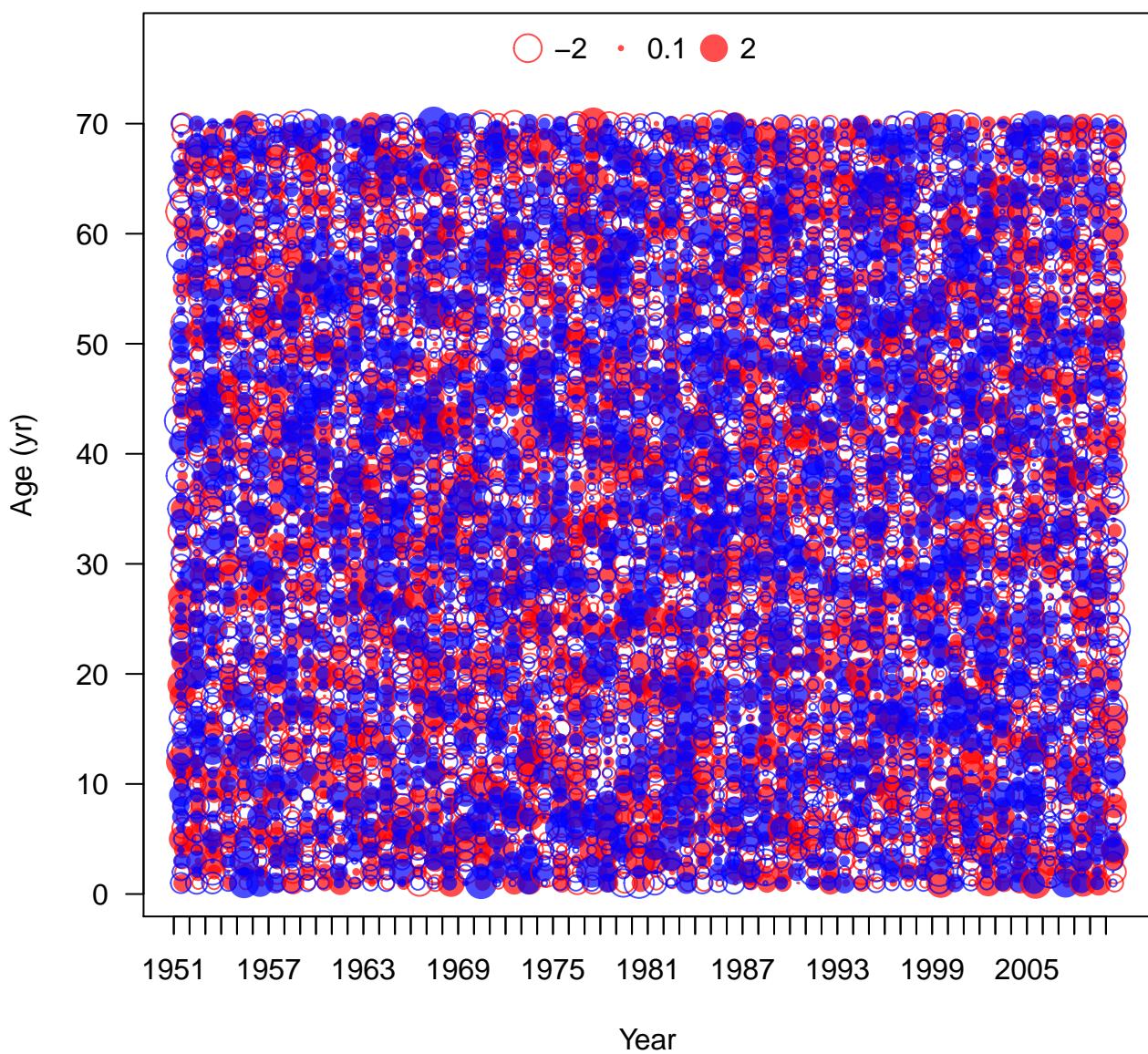
mean weight at age, whole catch, survey2

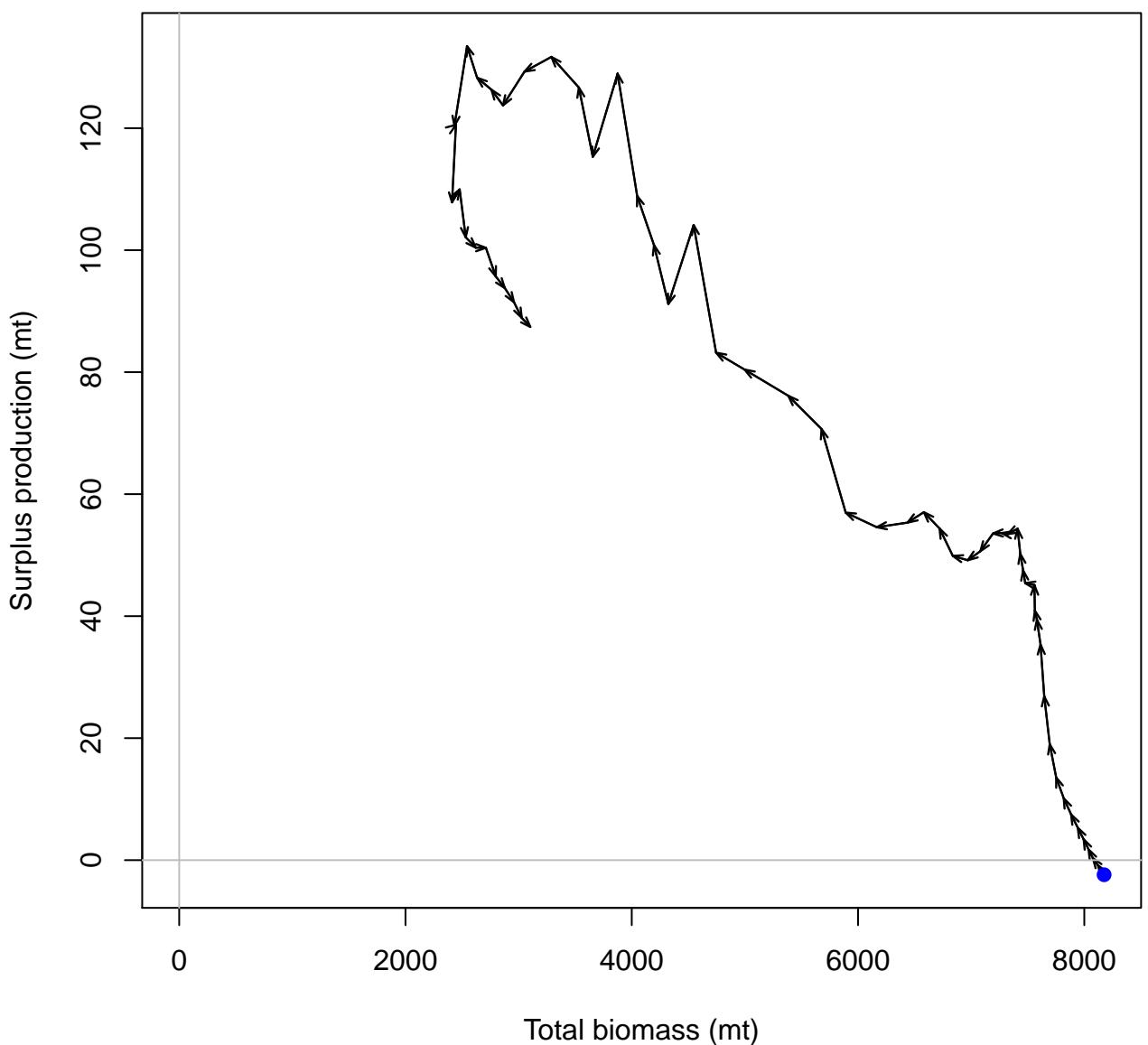


mean weight at age, whole catch, survey2



Pearson residuals, whole catch, survey2 (max=3.8)





Data by type and year

