

Plots created using the 'r4ss' package in R

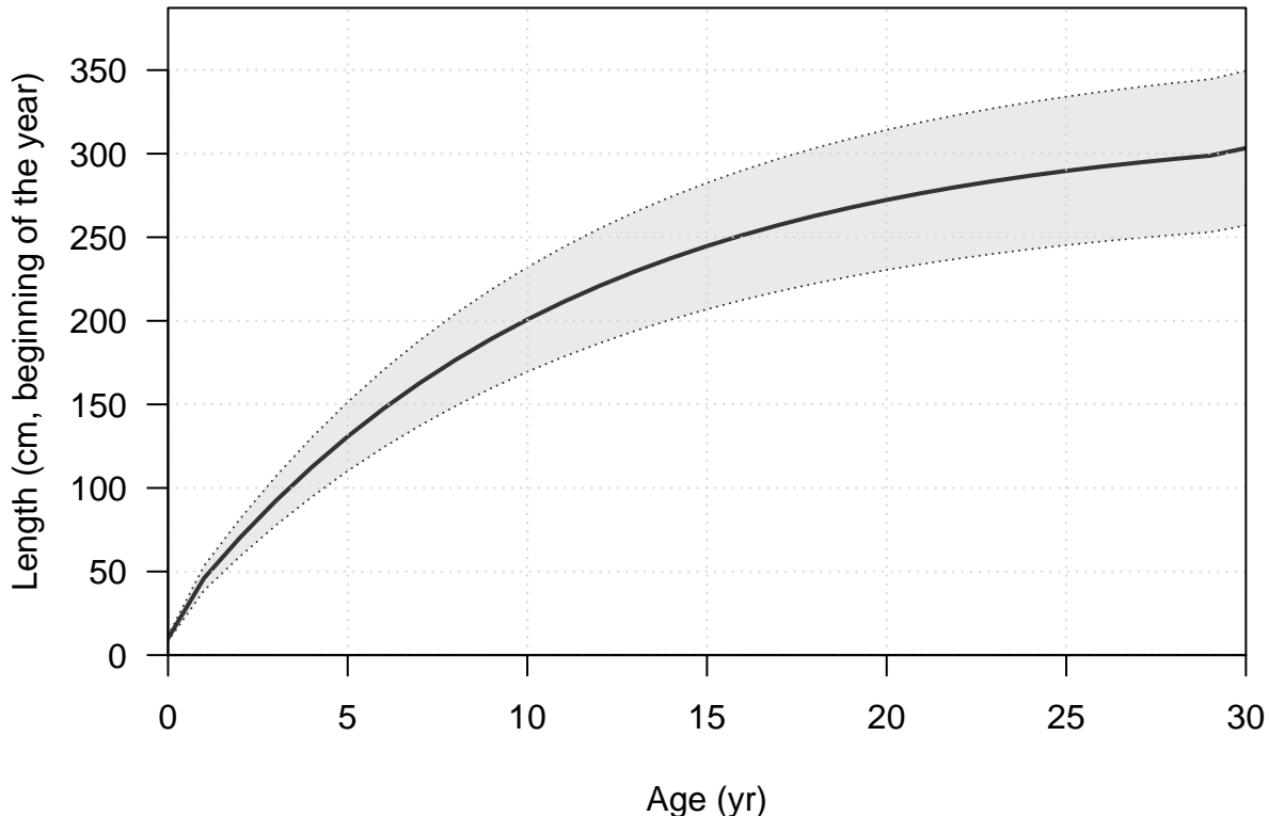
Stock Synthesis version: SS-V3.24j

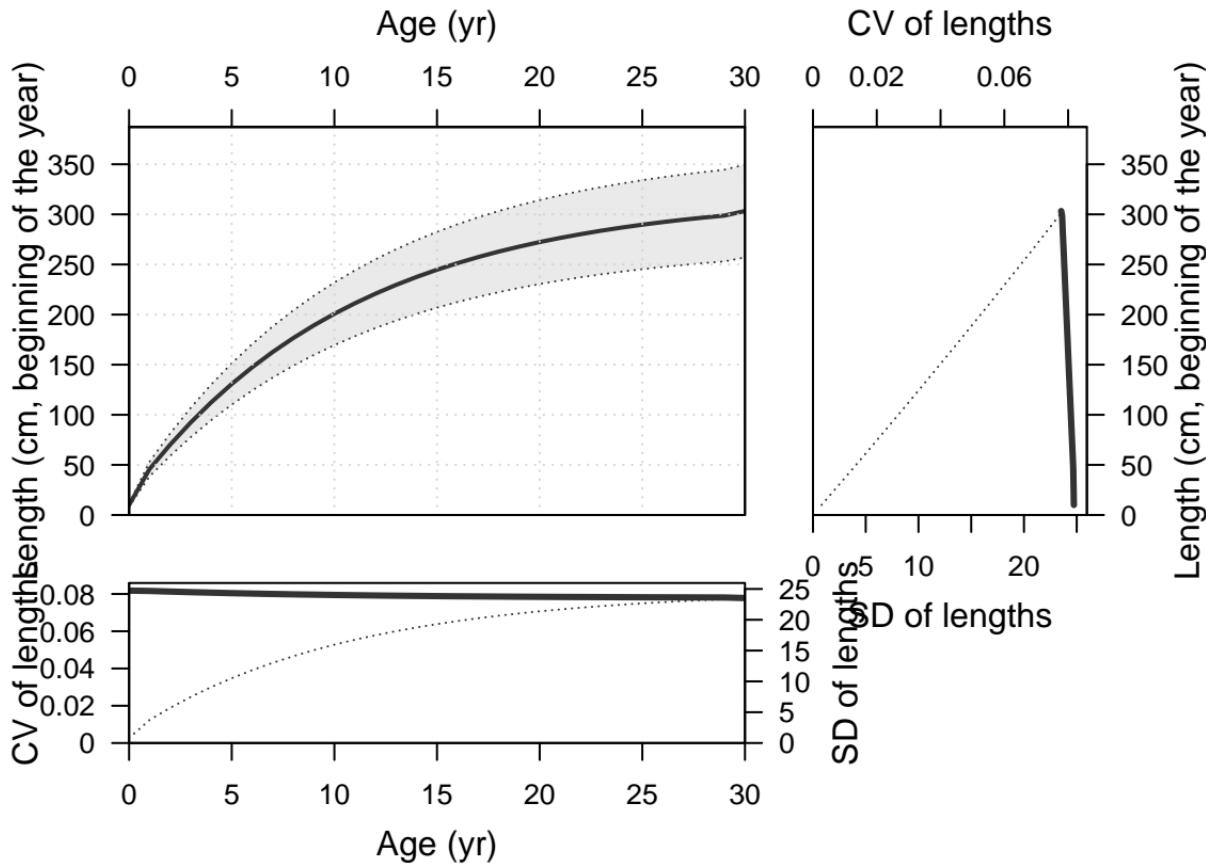
StartTime: Tue Jul 25 22:28:45 2017

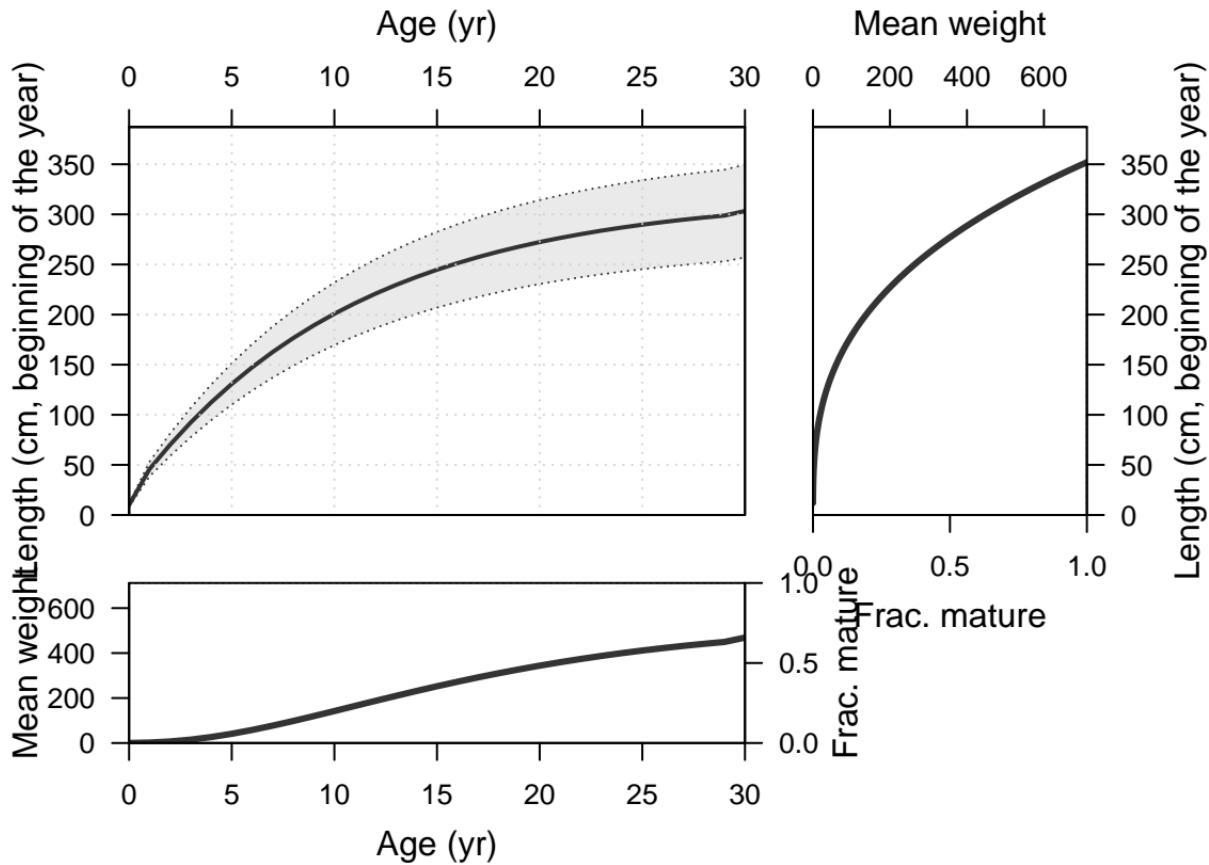
Data_File: complex.dat

Control_File: complex.ctl

Ending year expected growth (with 95% intervals)





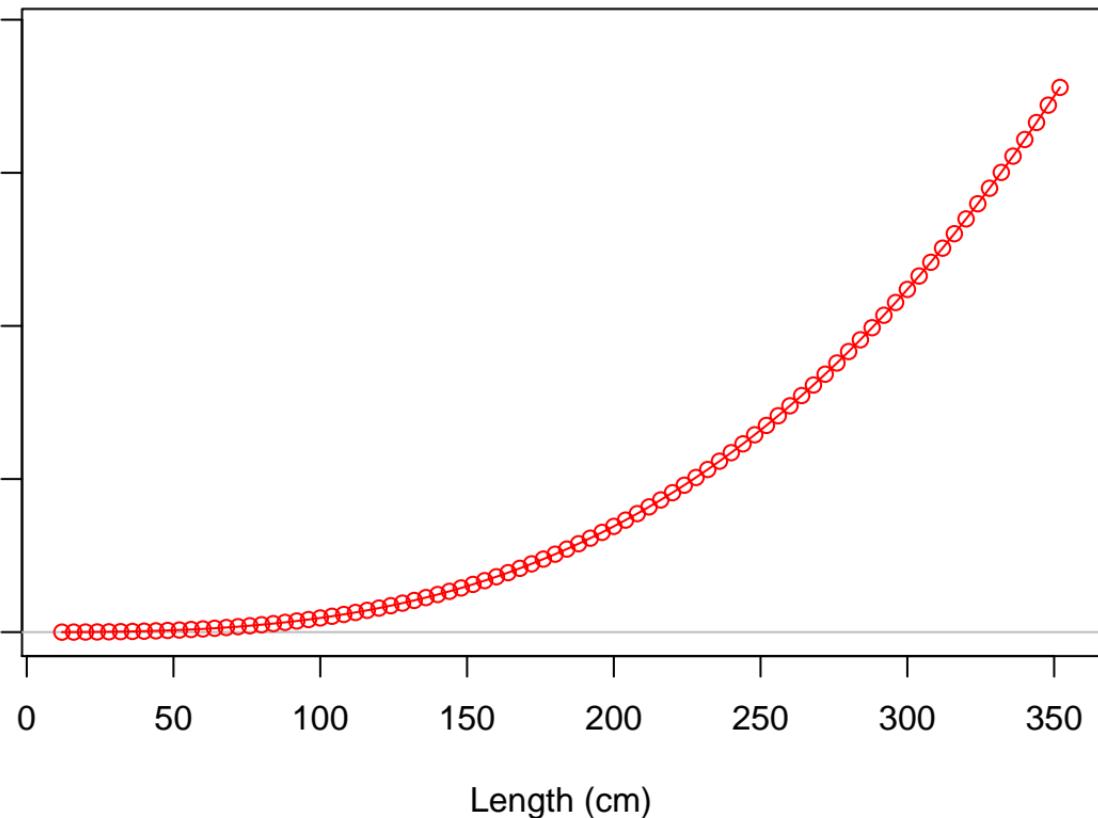


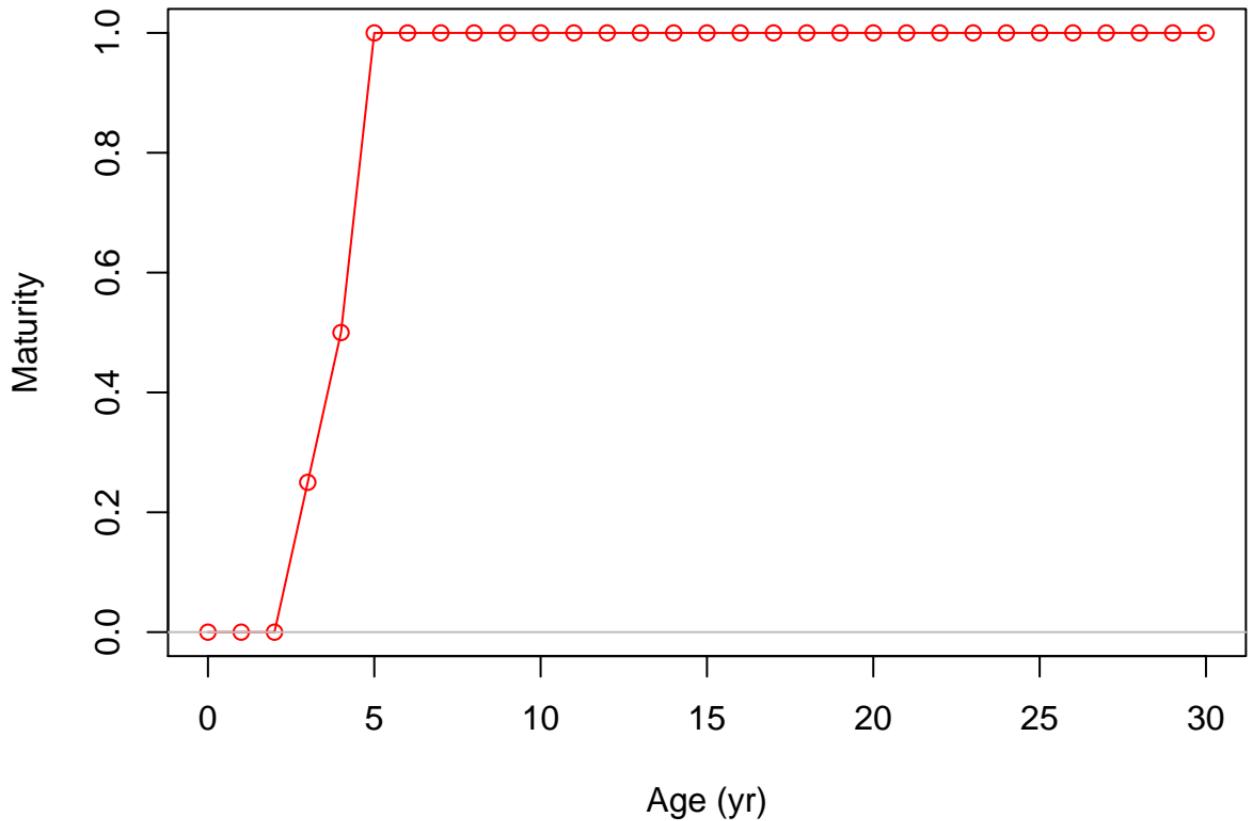
Mean weight (kg) in last year

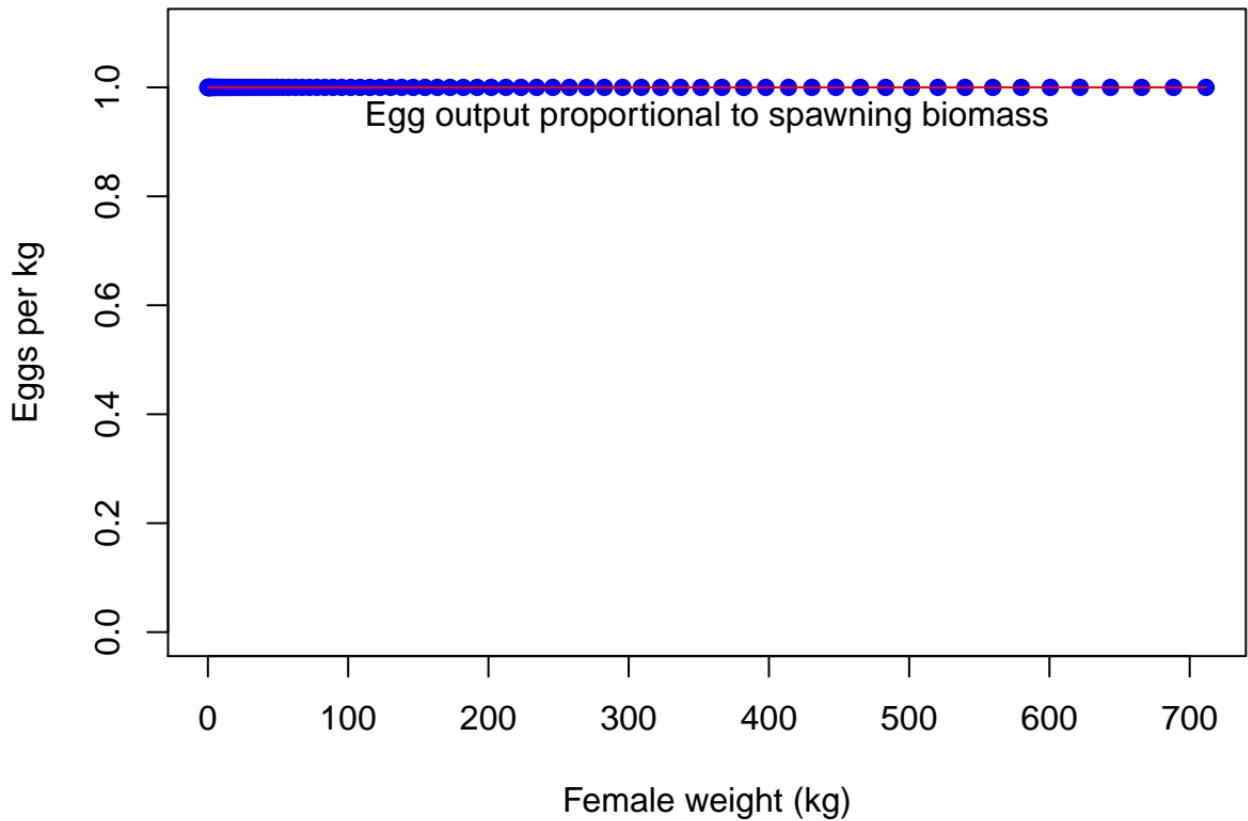
800
600
400
200
0

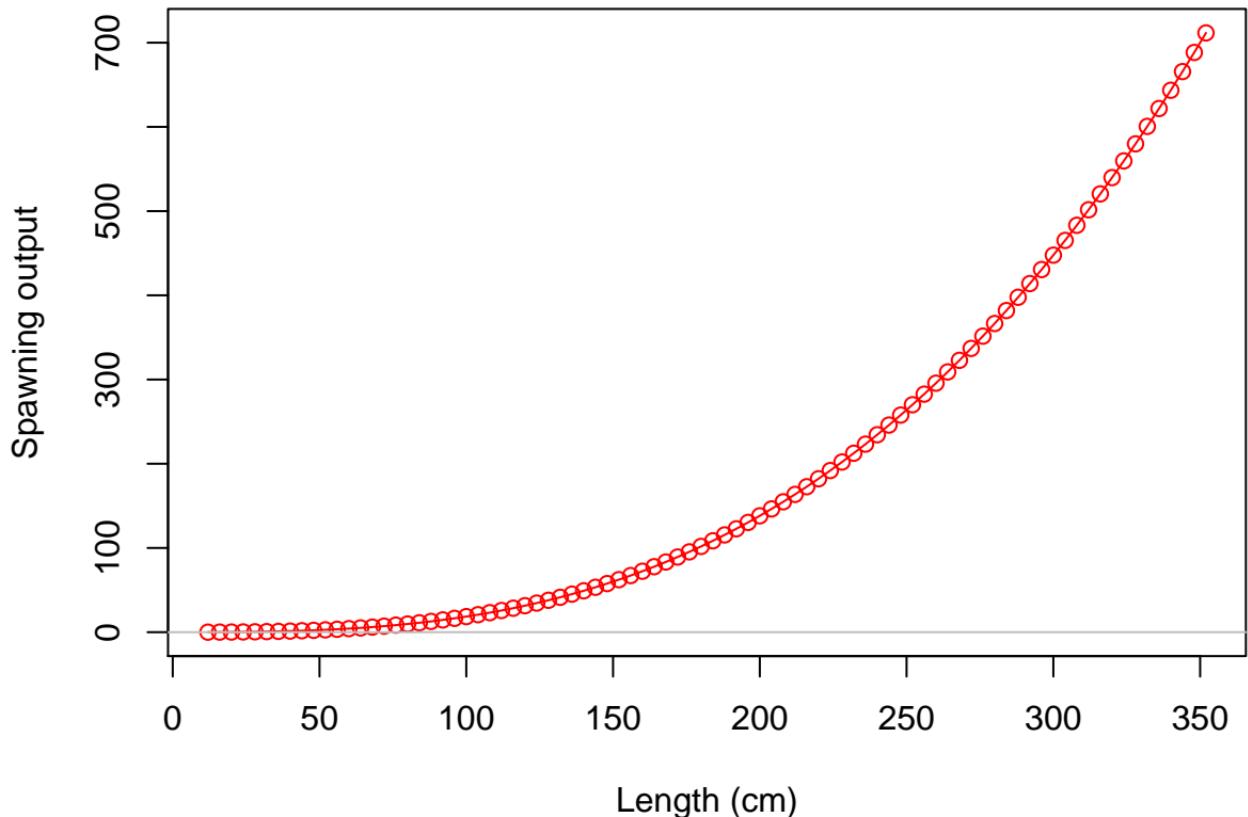
0 50 100 150 200 250 300 350

Length (cm)

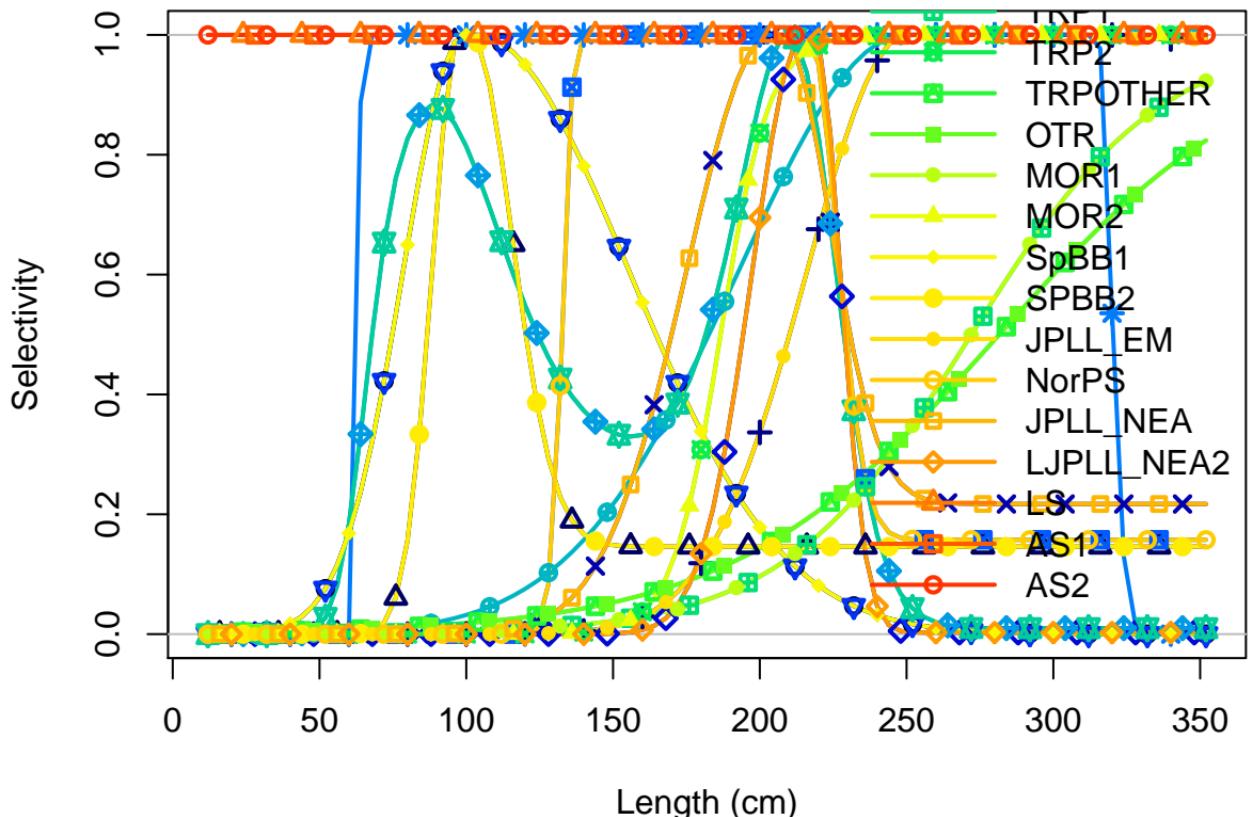




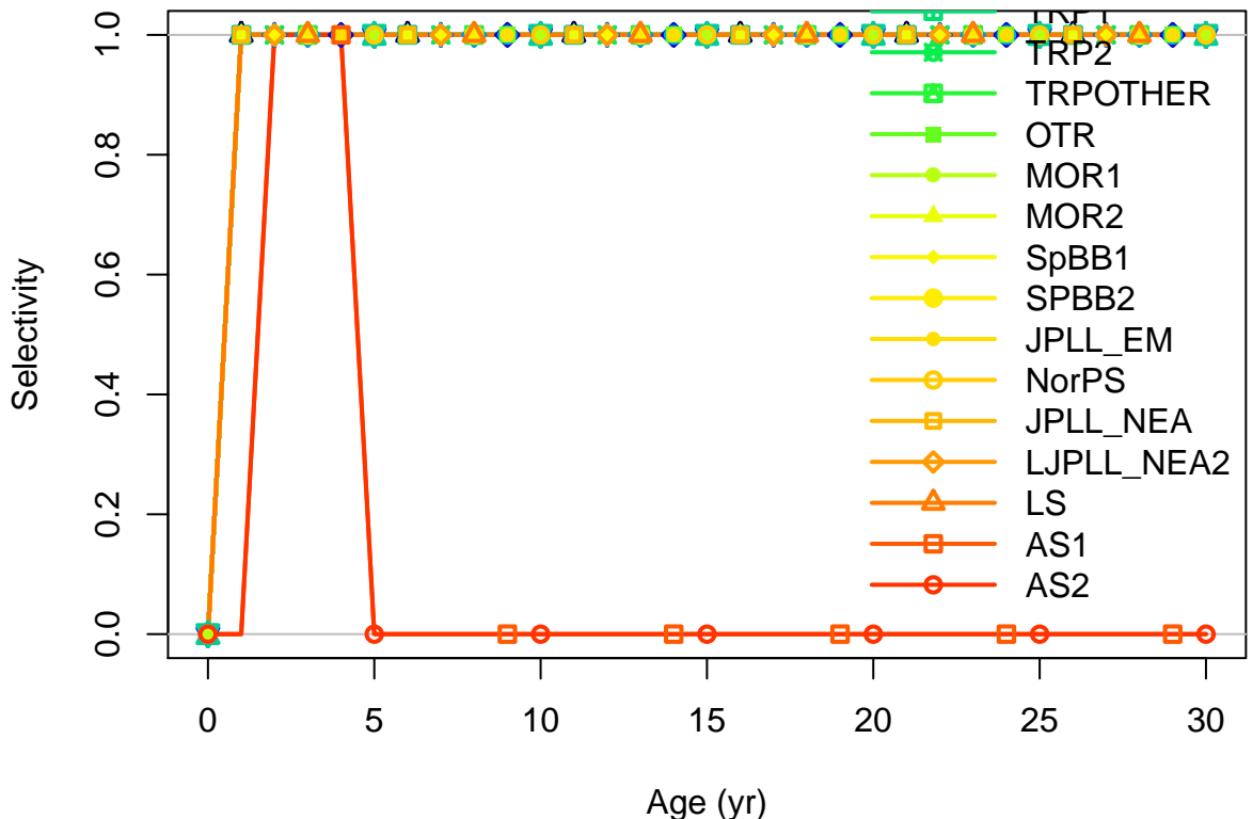




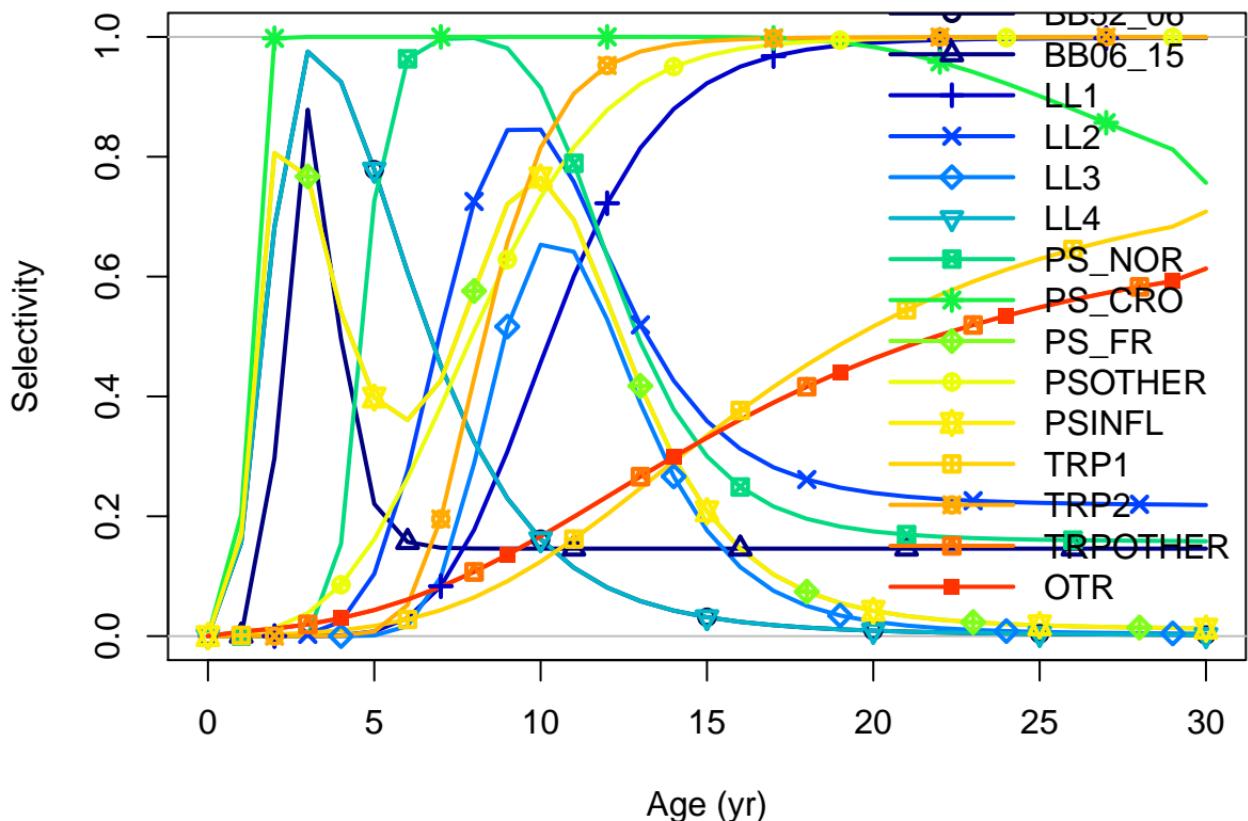
Length-based selectivity by fleet in 2016



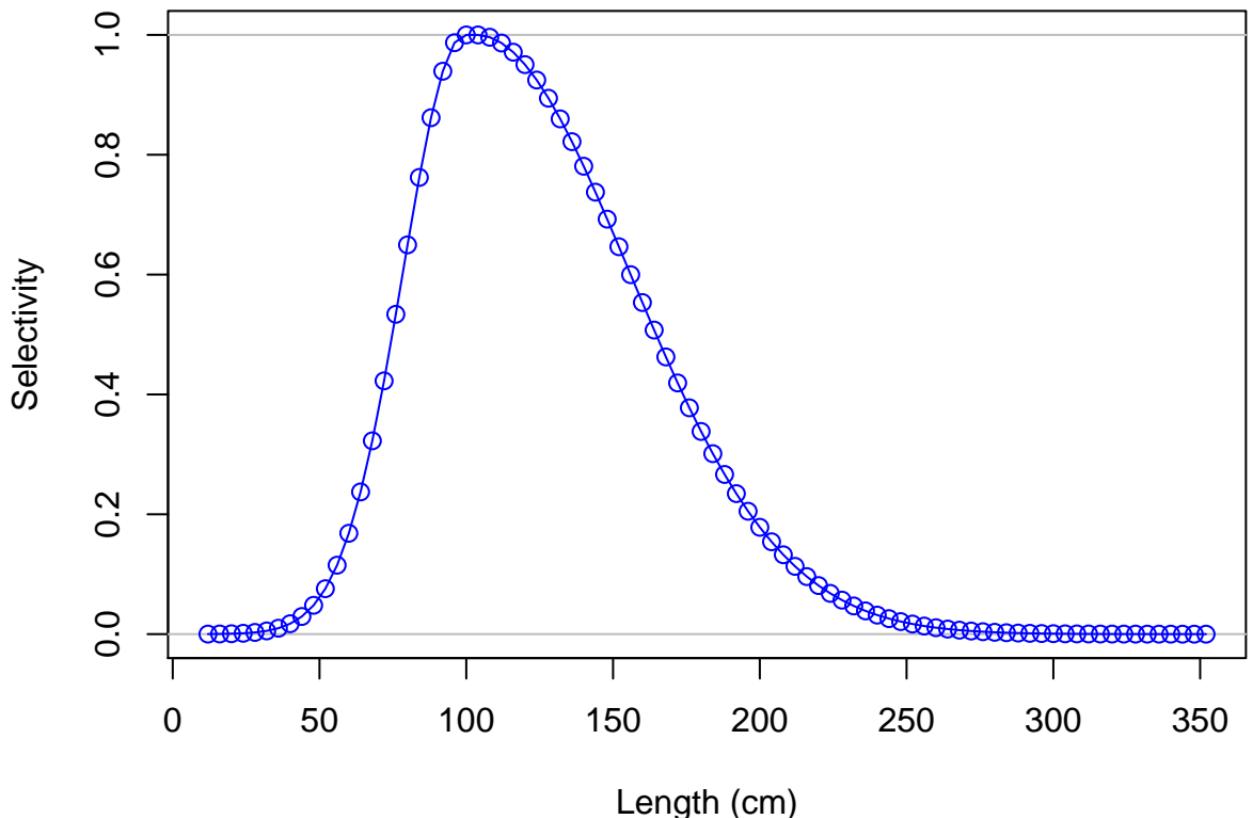
Age-based selectivity by fleet in 2016



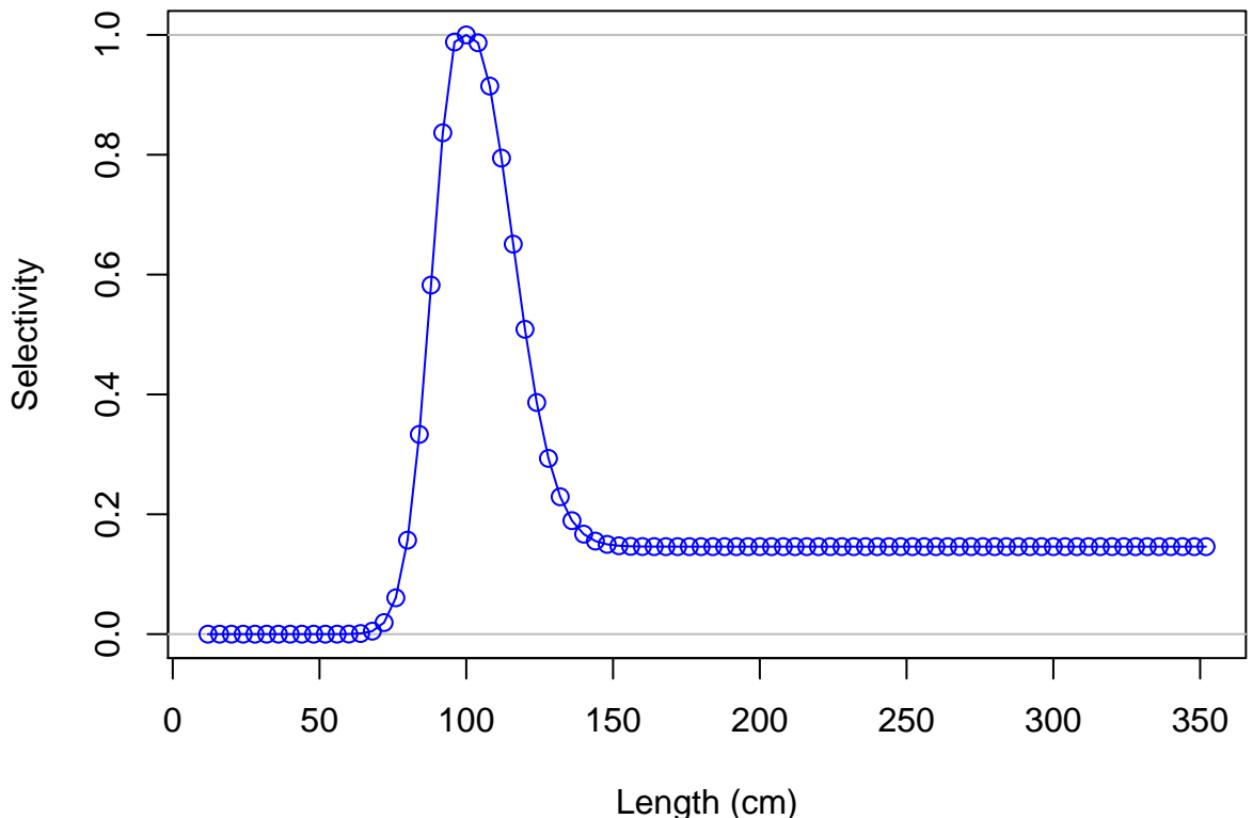
Derived age-based from length-based selectivity by fleet in 2016



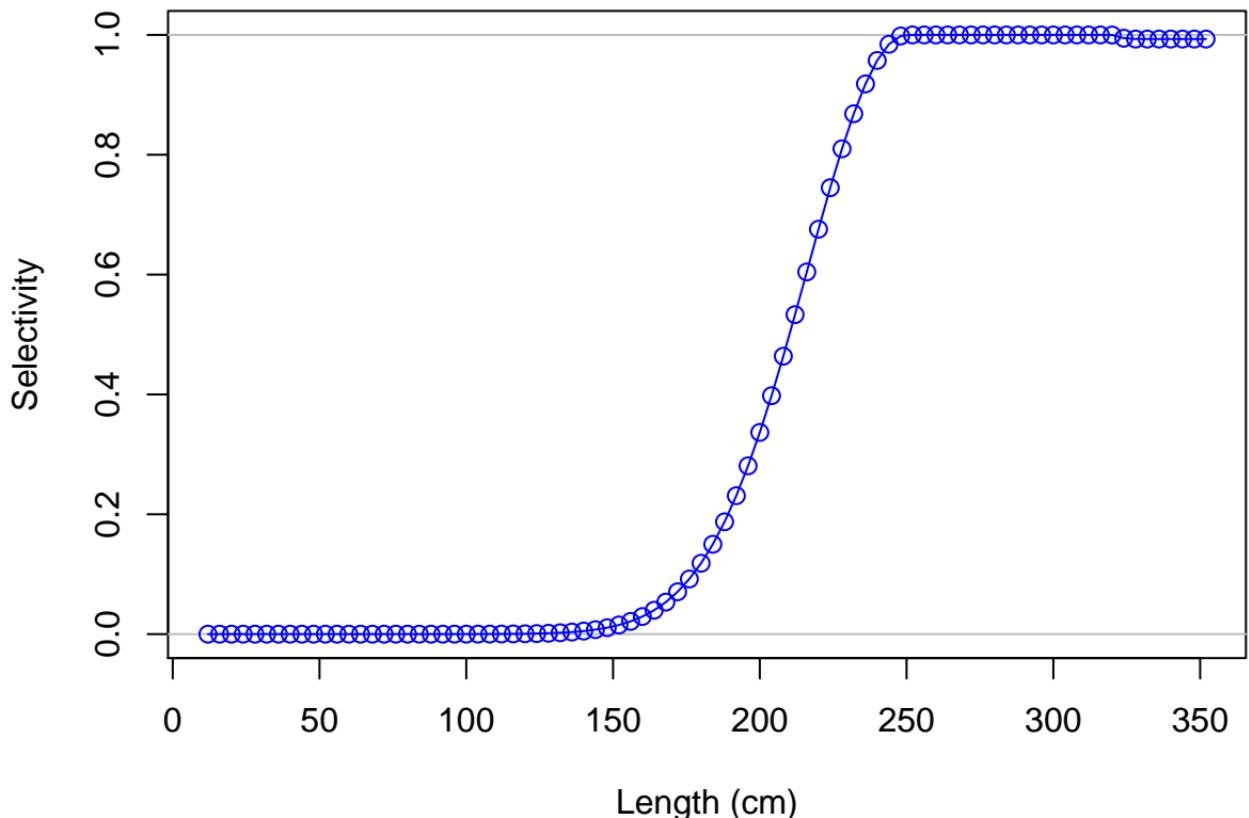
Ending year selectivity for BB52_06



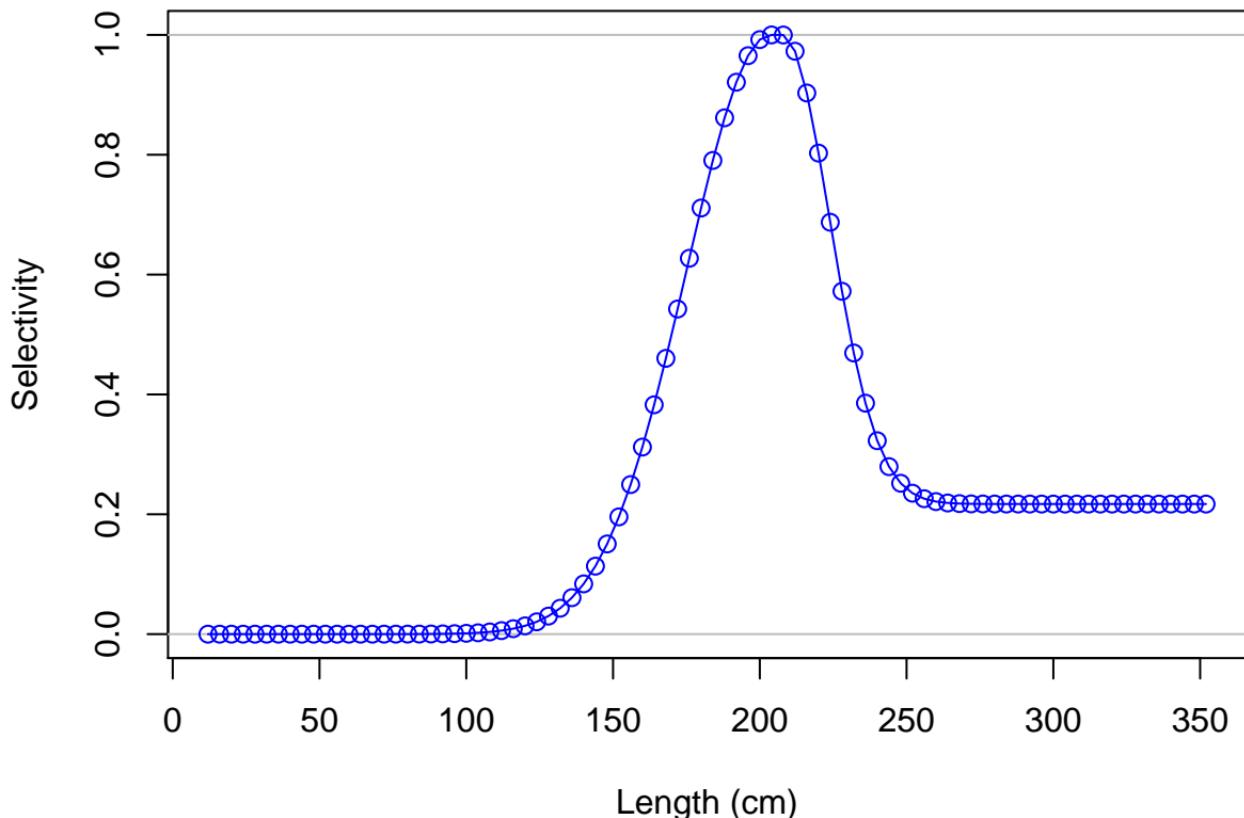
Ending year selectivity for BB06_15



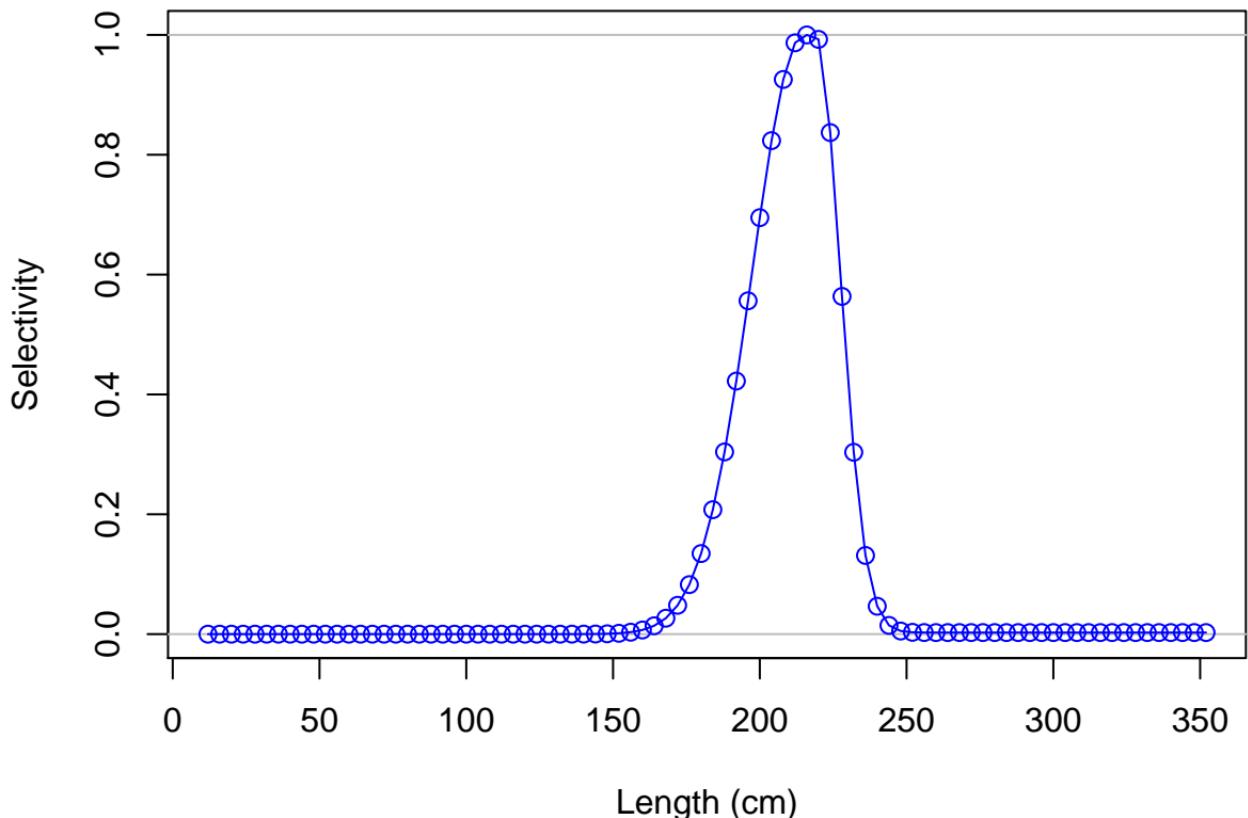
Ending year selectivity for LL1



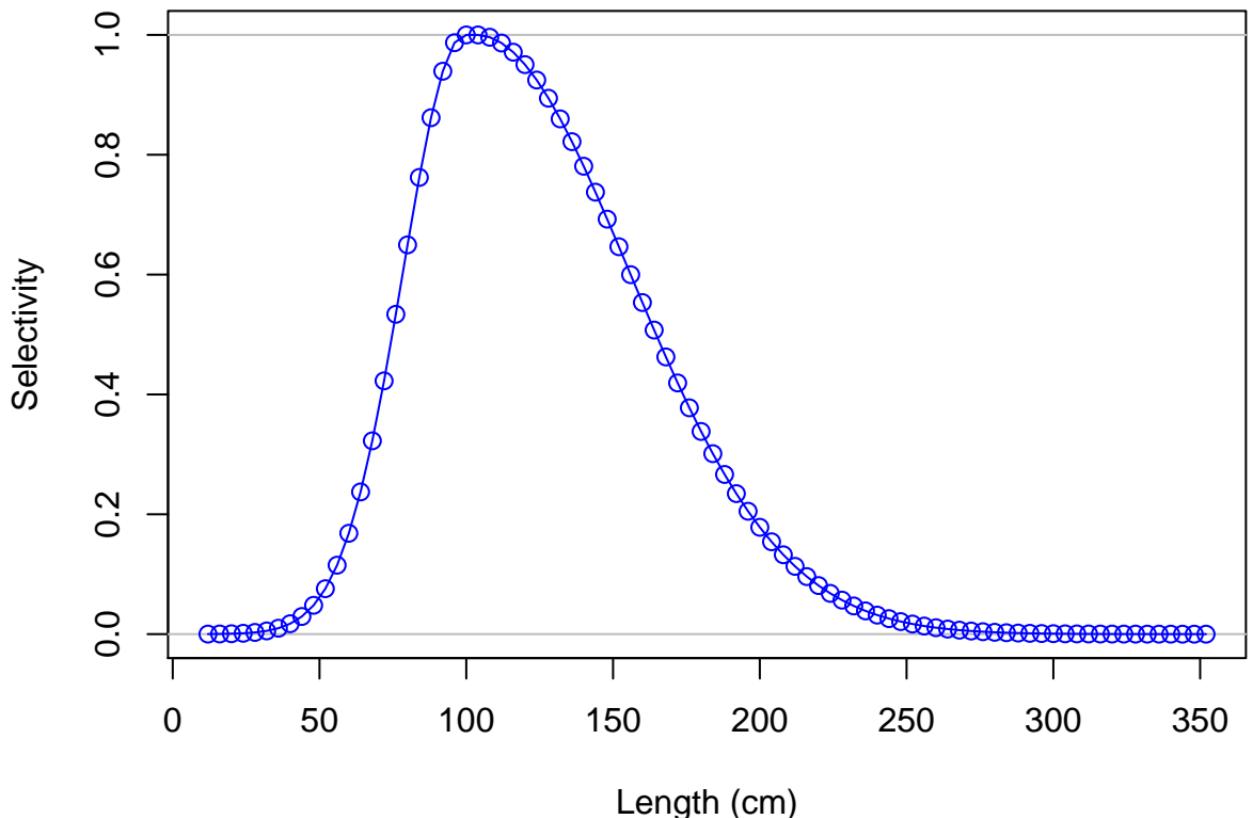
Ending year selectivity for LL2



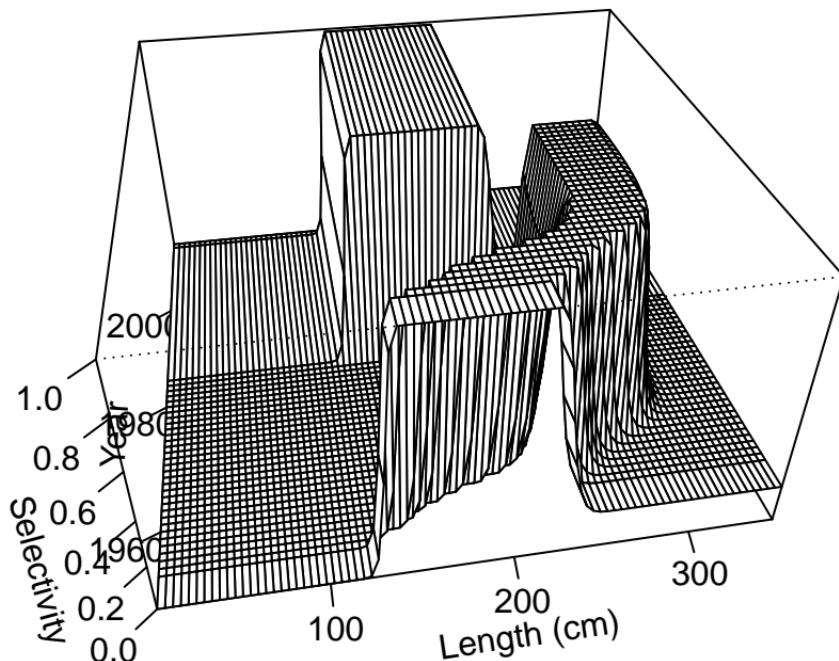
Ending year selectivity for LL3



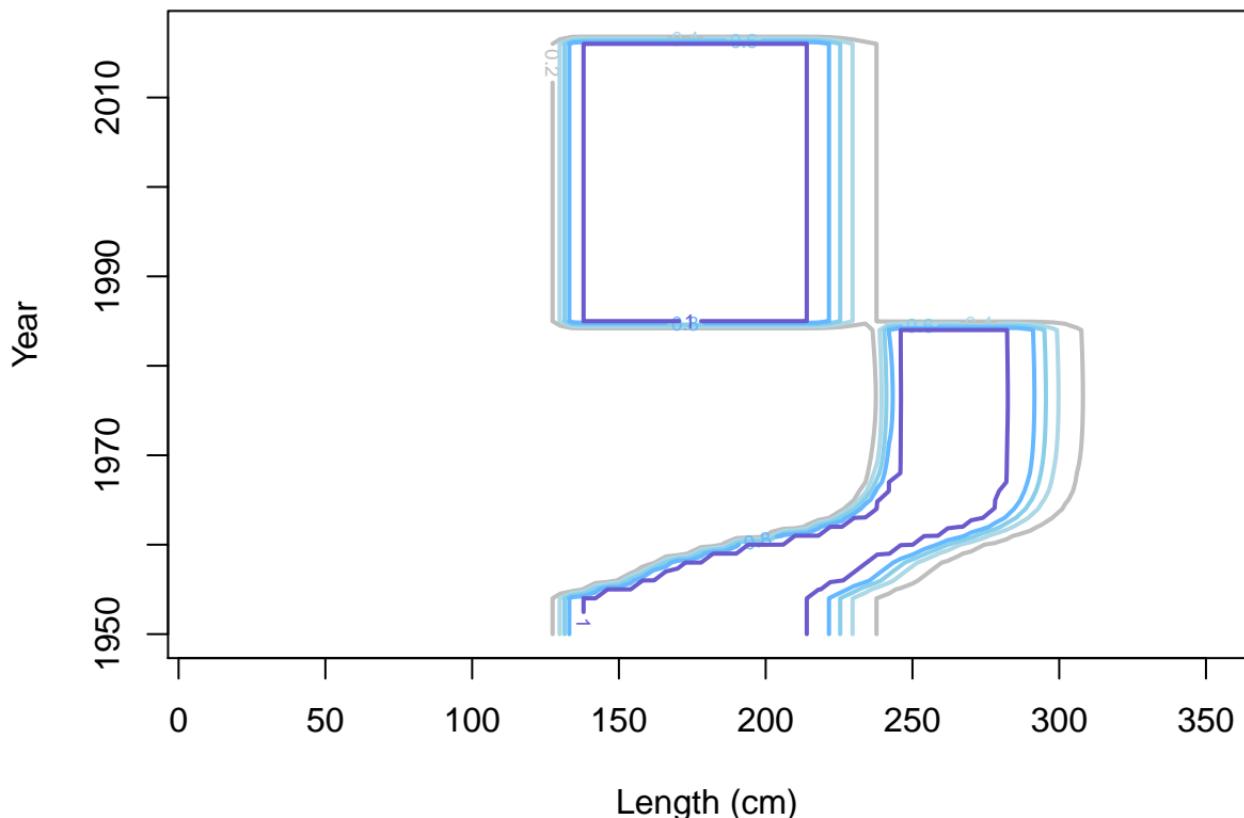
Ending year selectivity for LL4



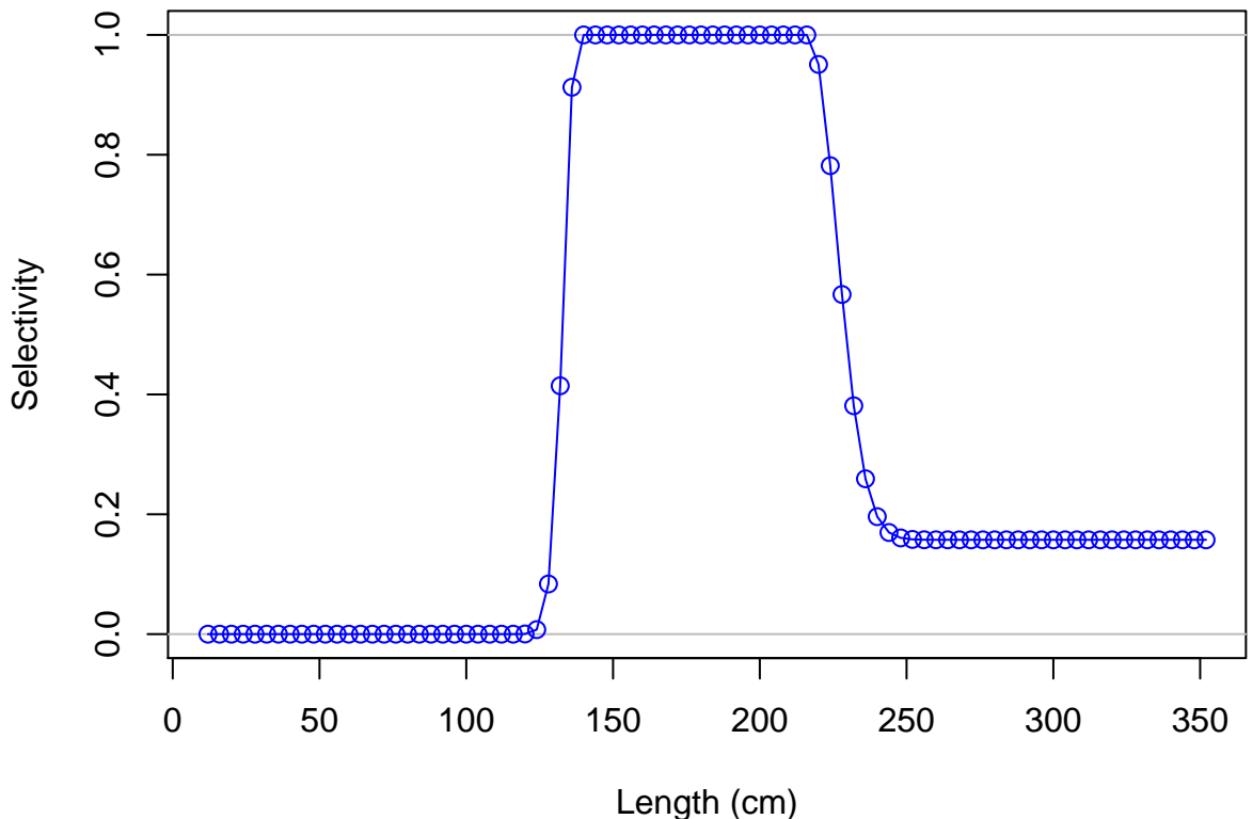
Time-varying selectivity for PS_NOR



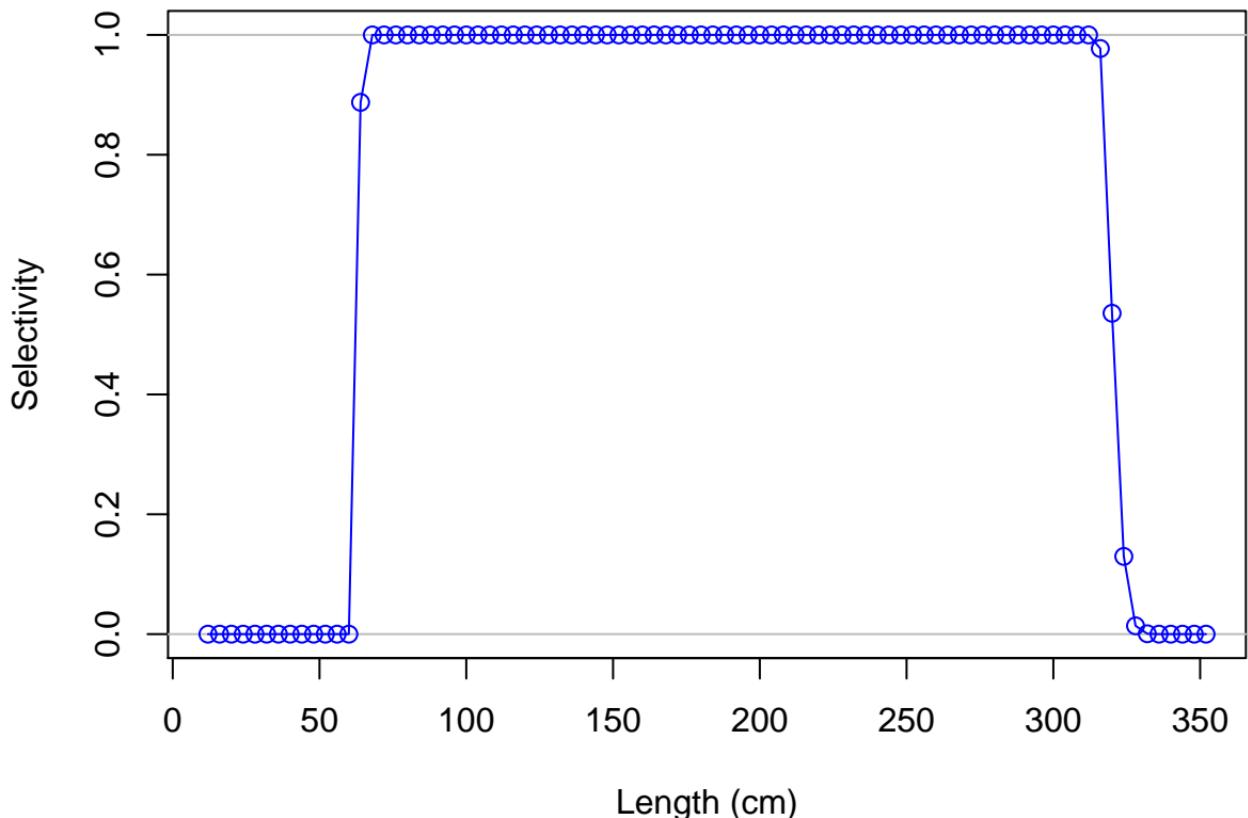
Time-varying selectivity for PS_NOR



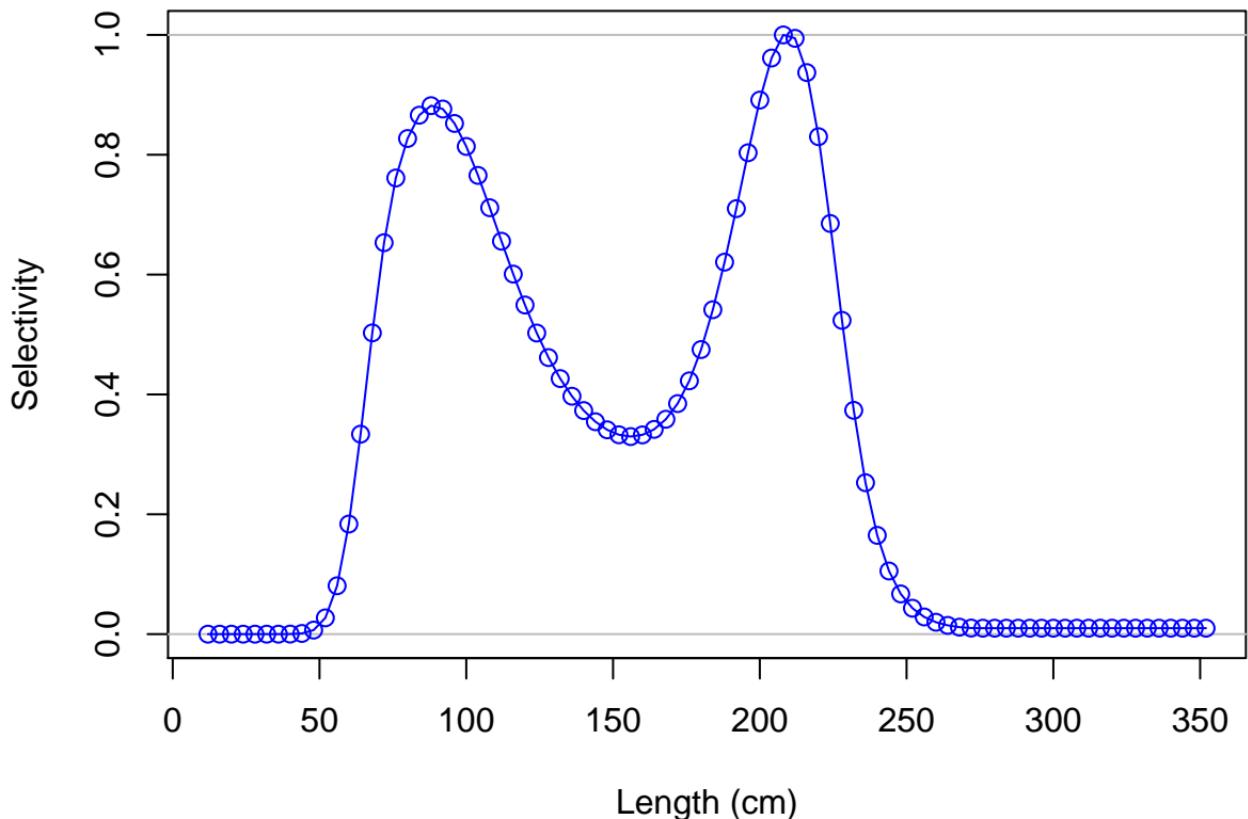
Ending year selectivity for PS_NOR



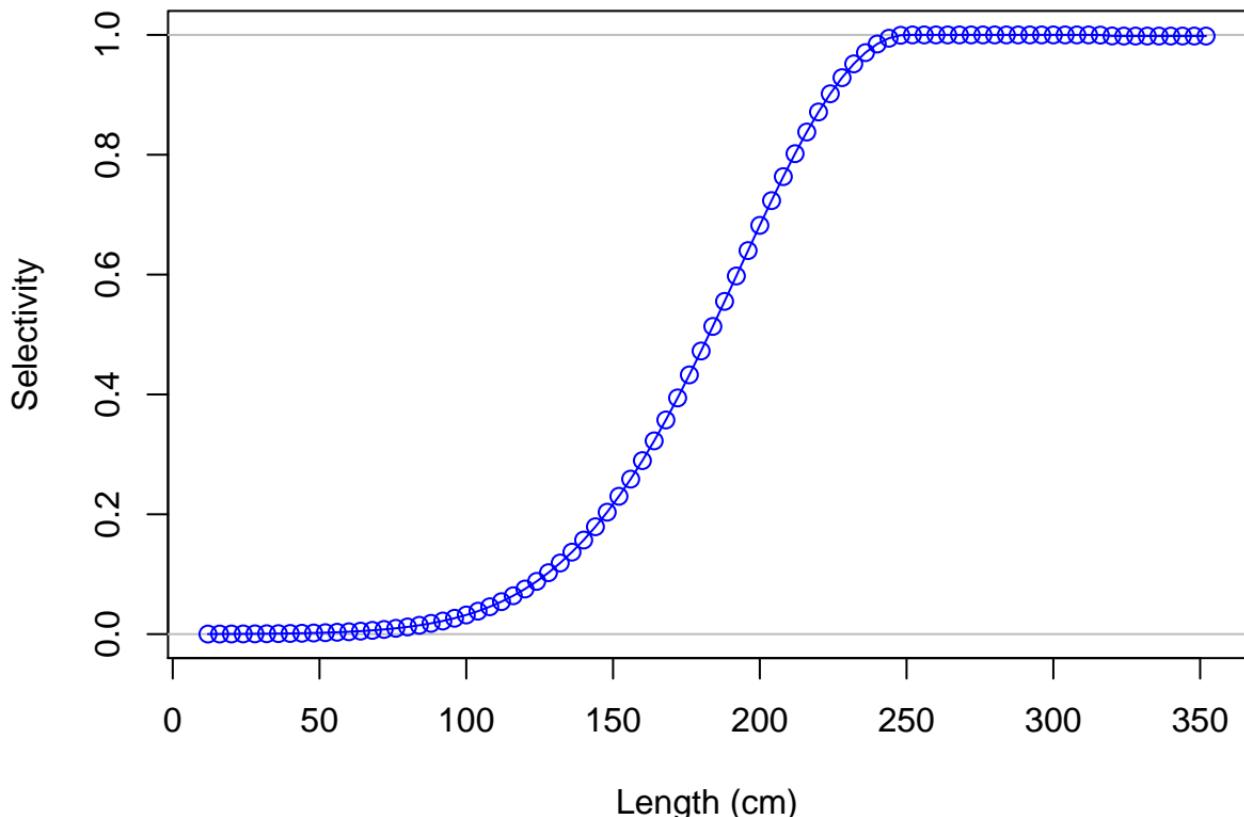
Ending year selectivity for PS_CRO



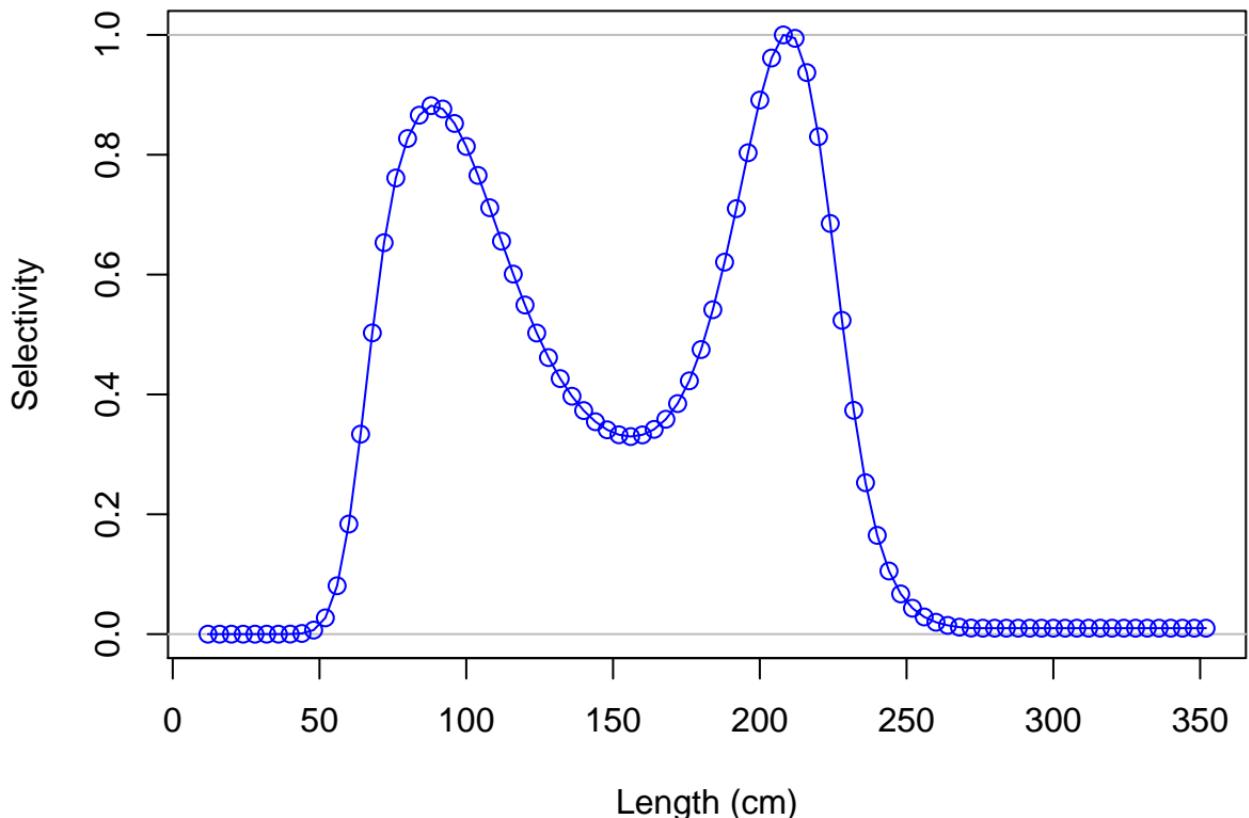
Ending year selectivity for PS_FR



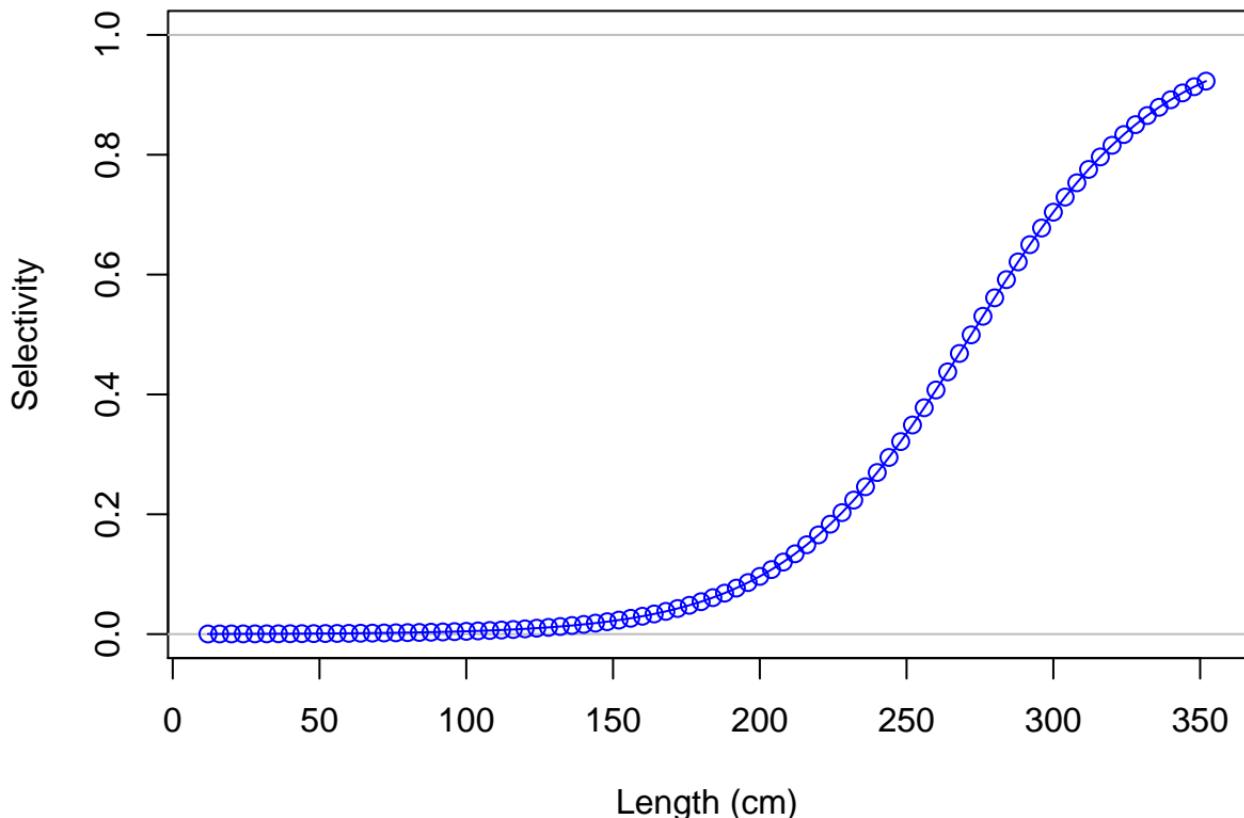
Ending year selectivity for PSOTHER



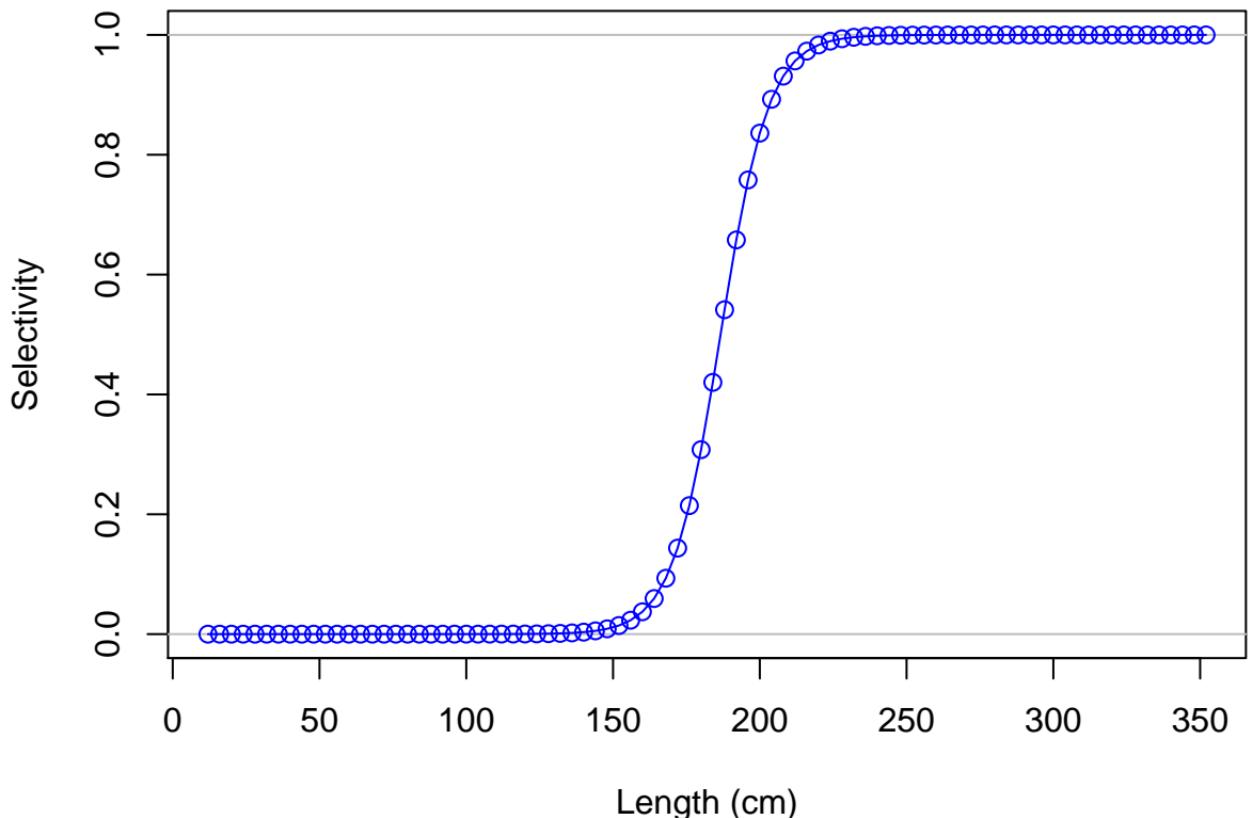
Ending year selectivity for PSINFL



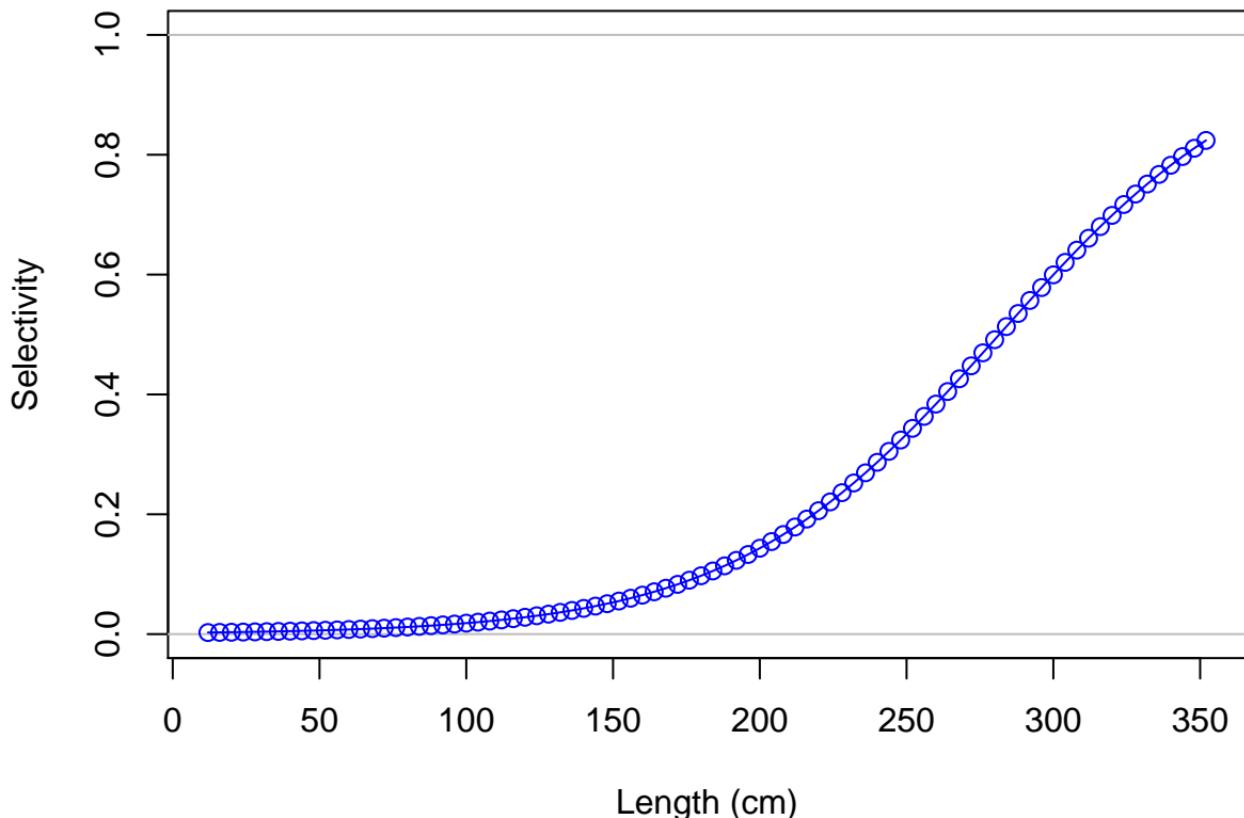
Ending year selectivity for TRP1



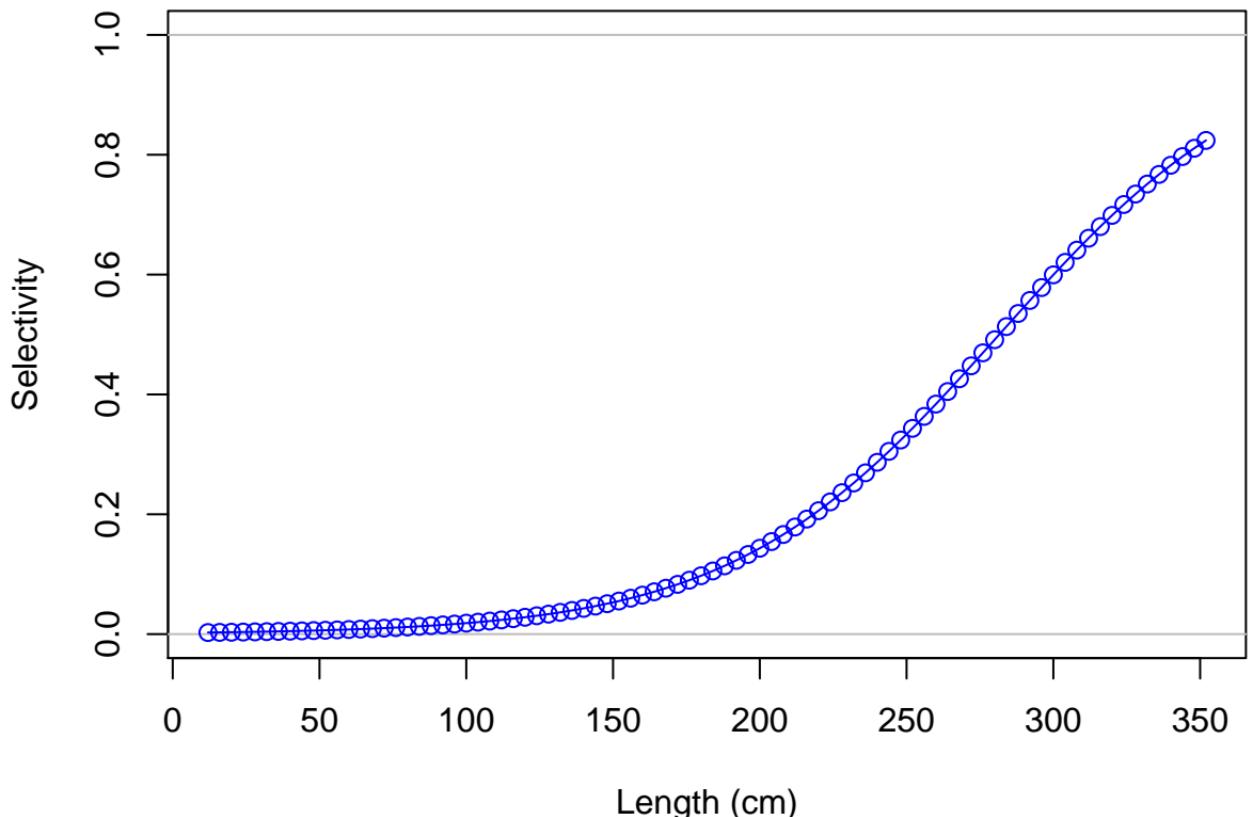
Ending year selectivity for TRP2



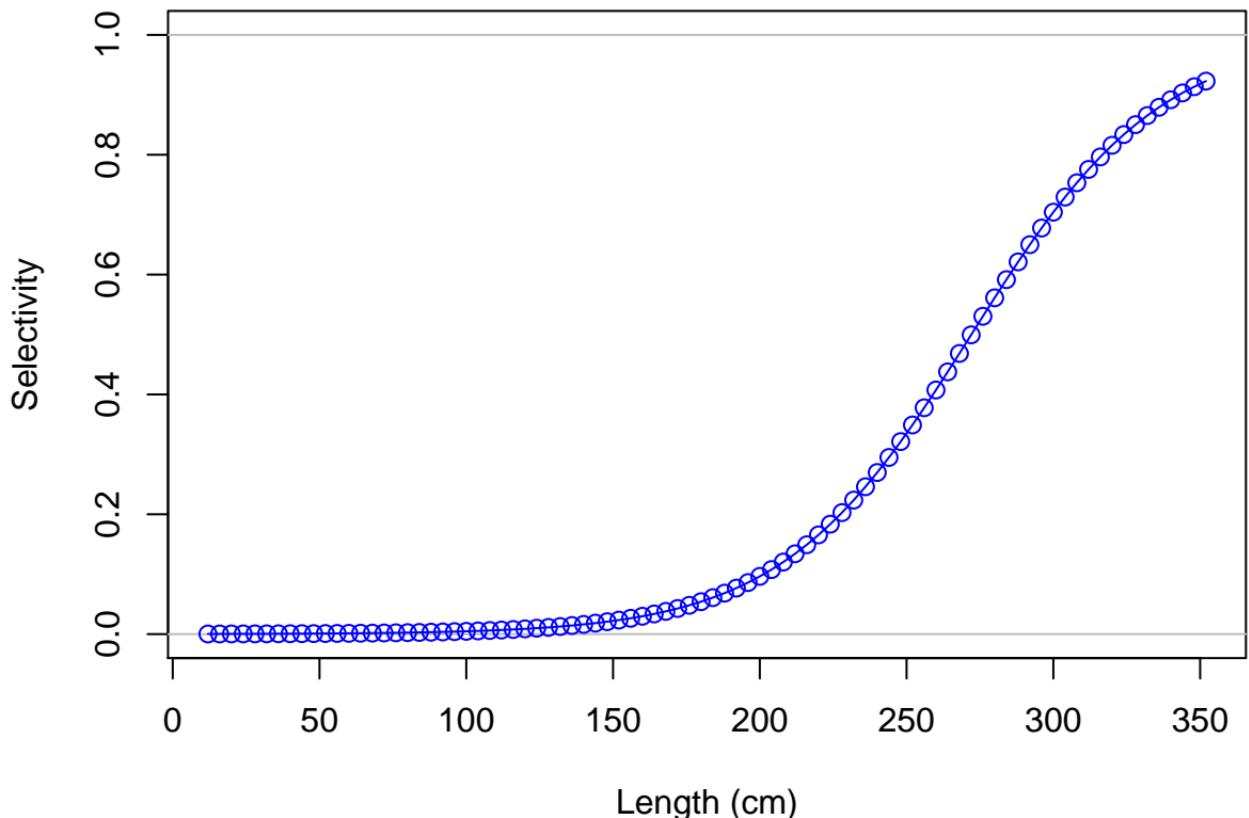
Ending year selectivity for TRPOTHER



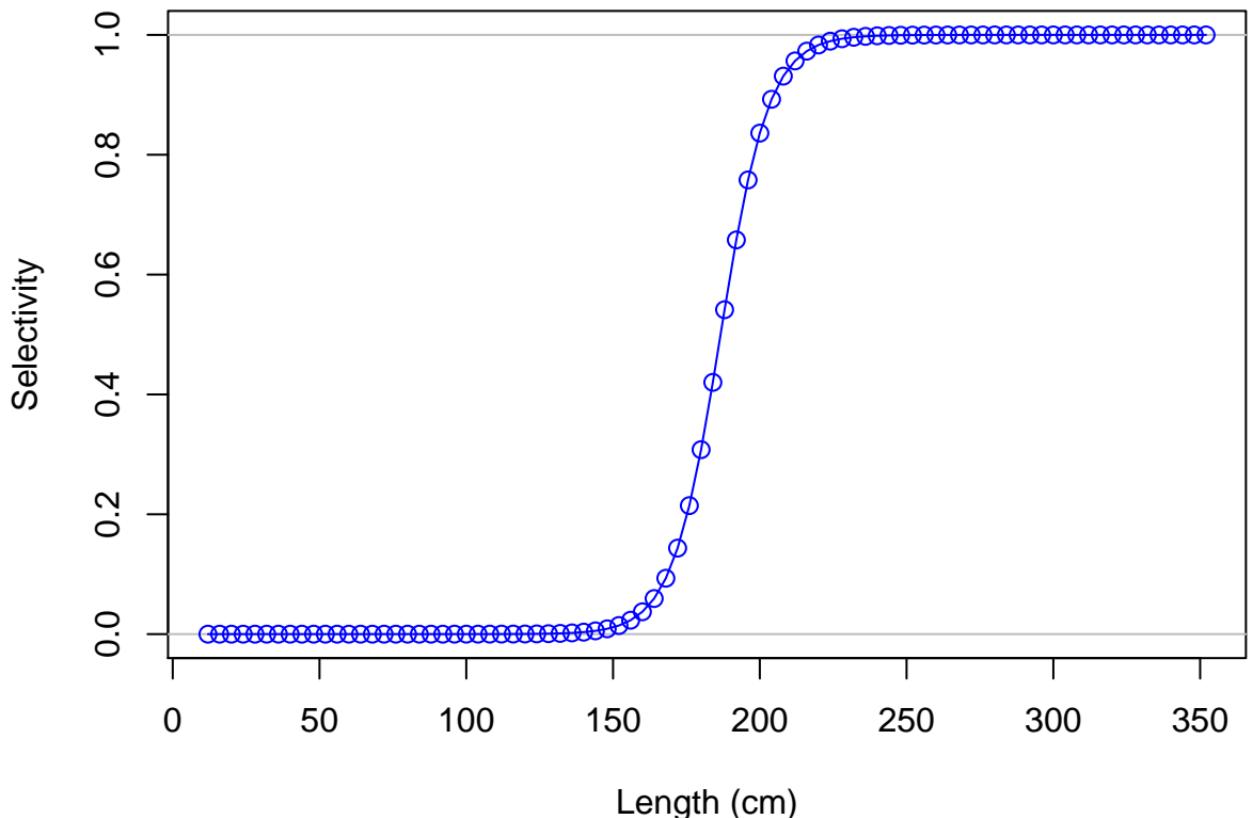
Ending year selectivity for OTR



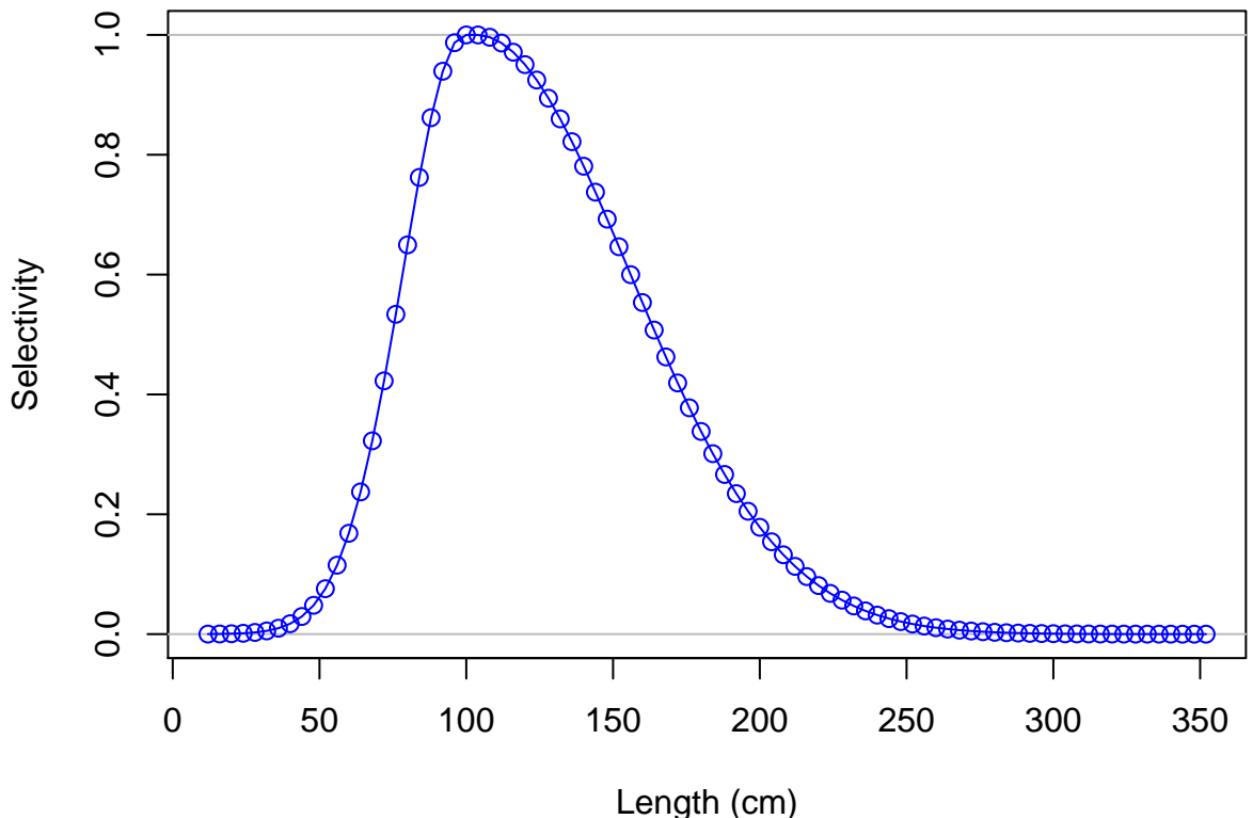
Ending year selectivity for MOR1



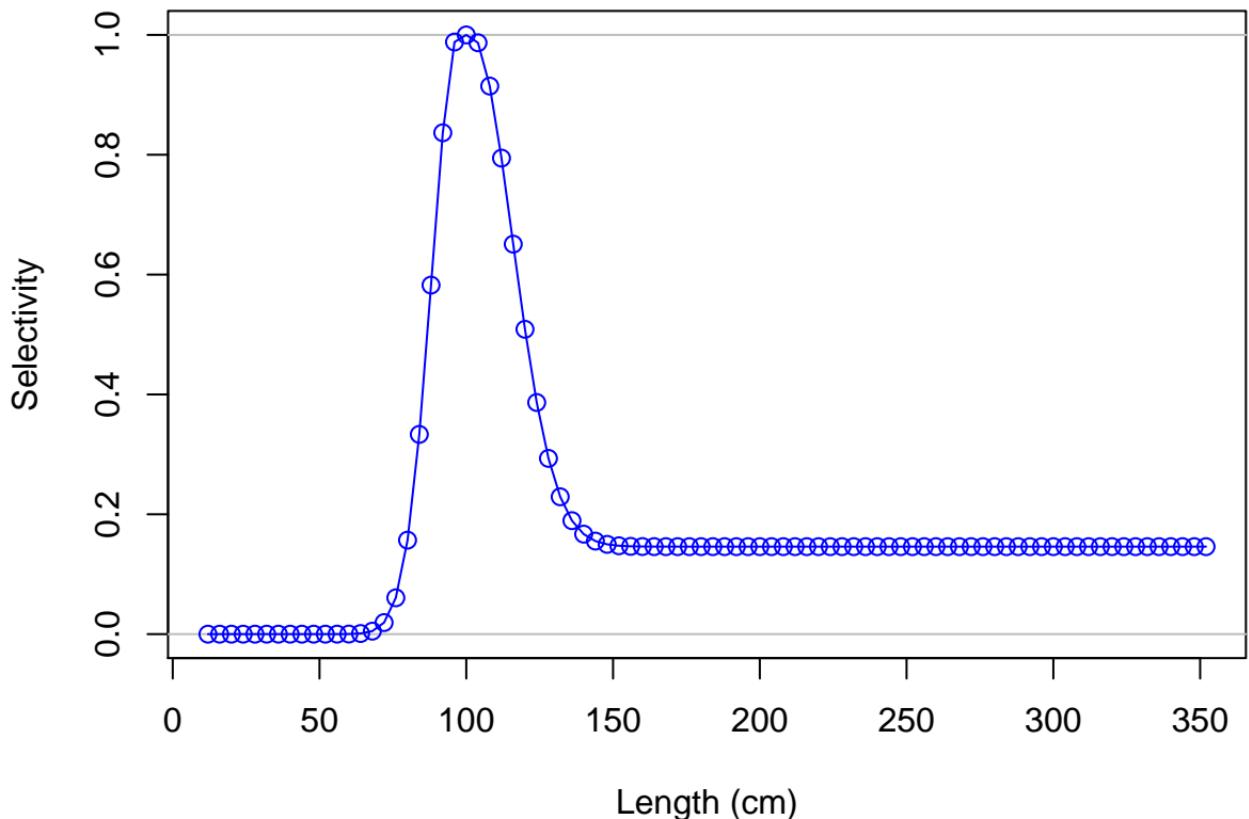
Ending year selectivity for MOR2



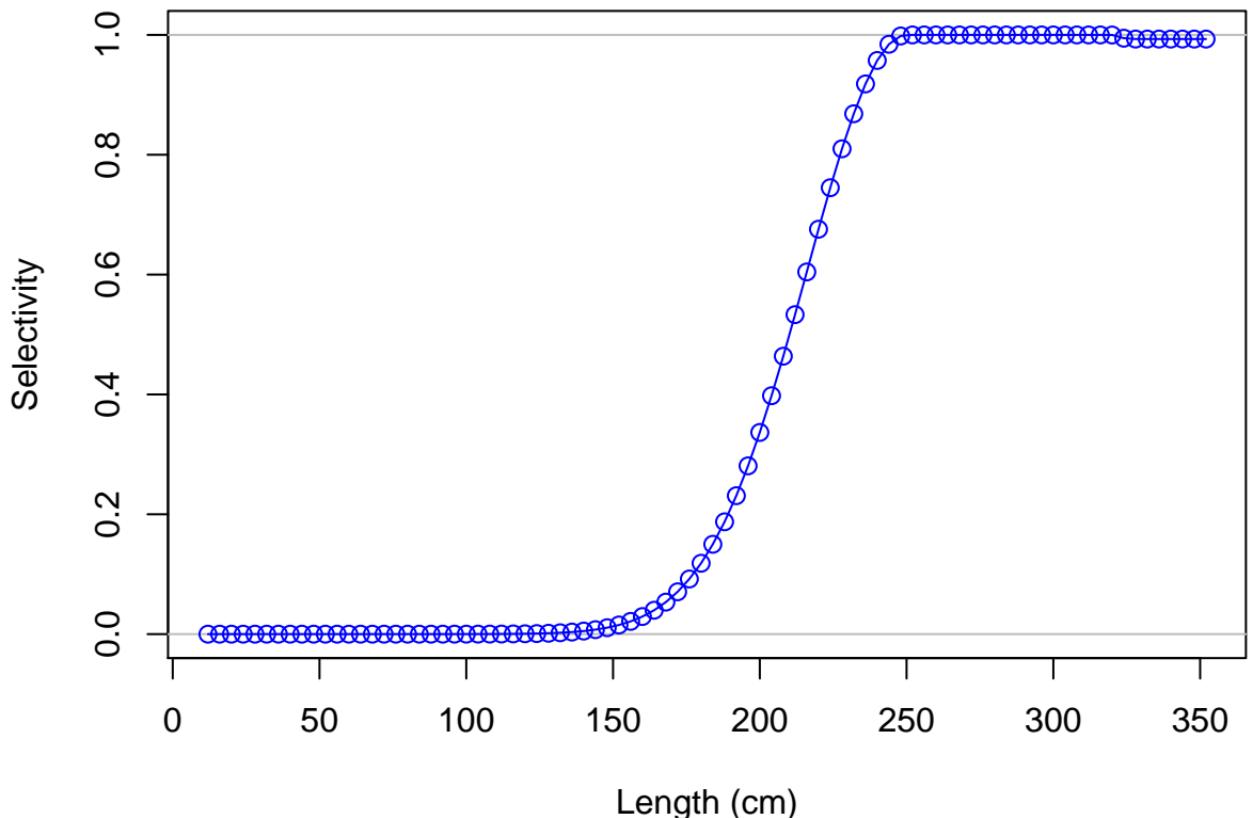
Ending year selectivity for SpBB1



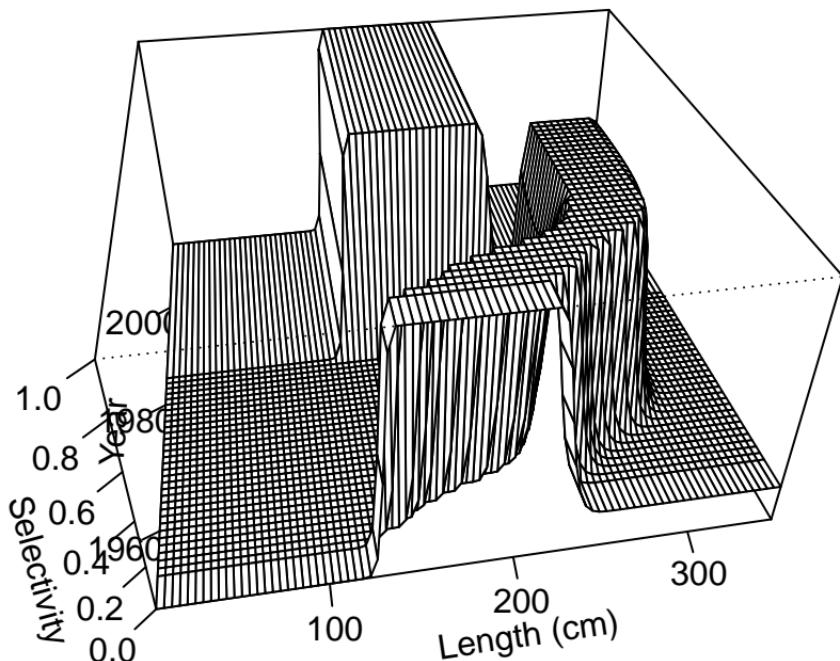
Ending year selectivity for SPBB2



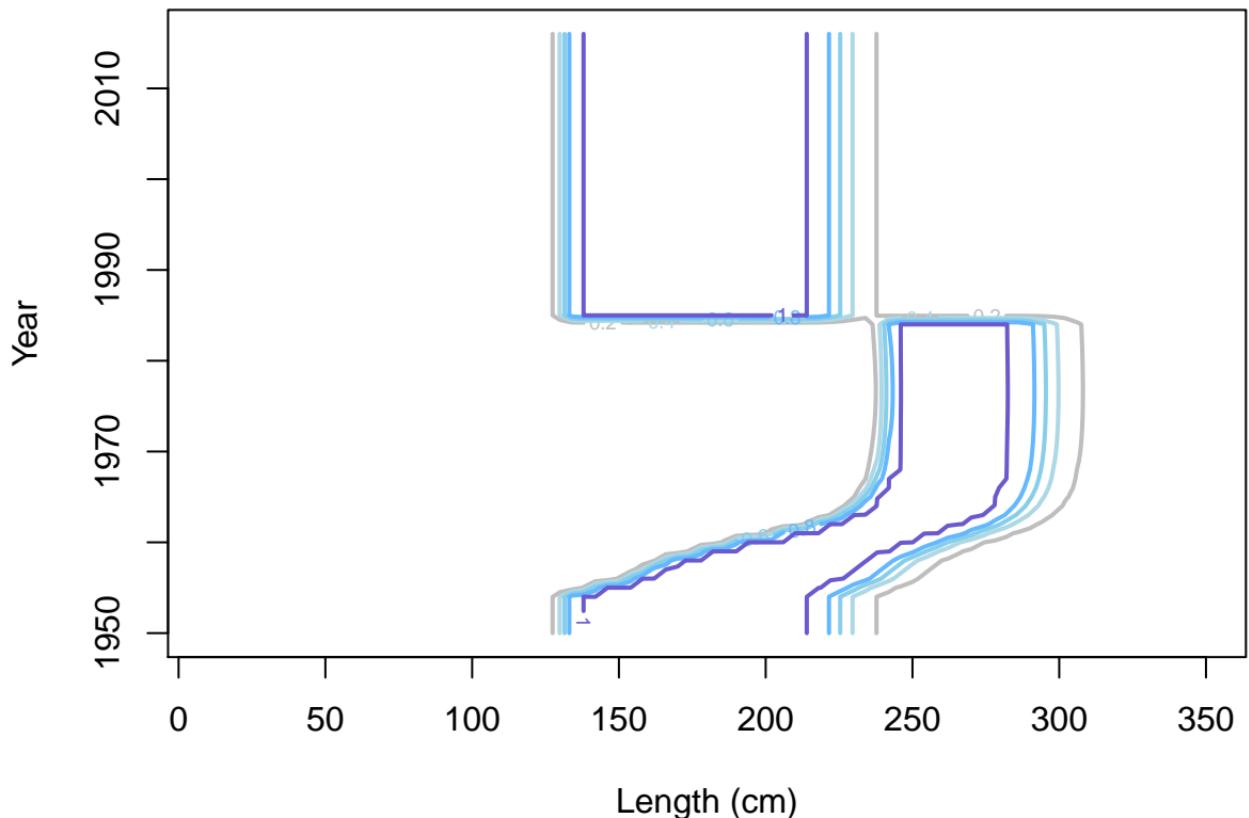
Ending year selectivity for JPLL_EM



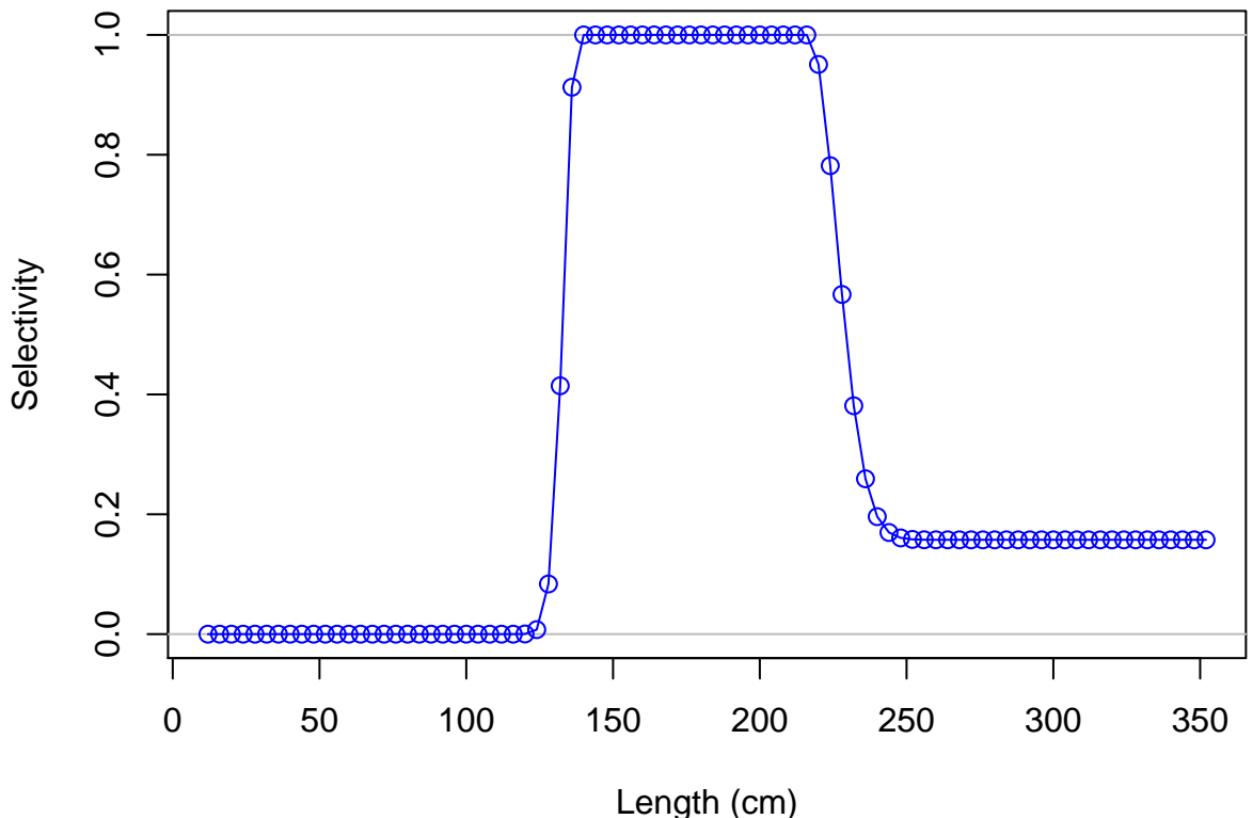
Time-varying selectivity for NorPS



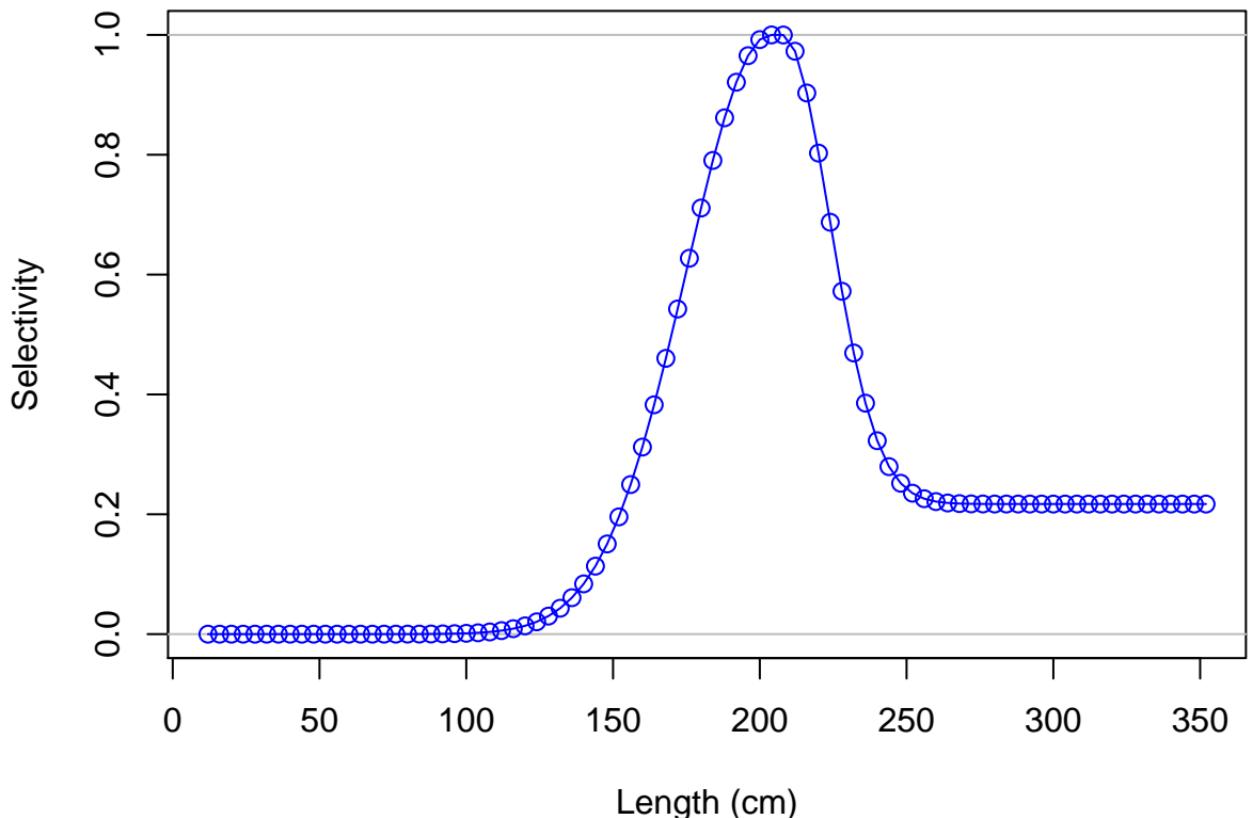
Time-varying selectivity for NorPS



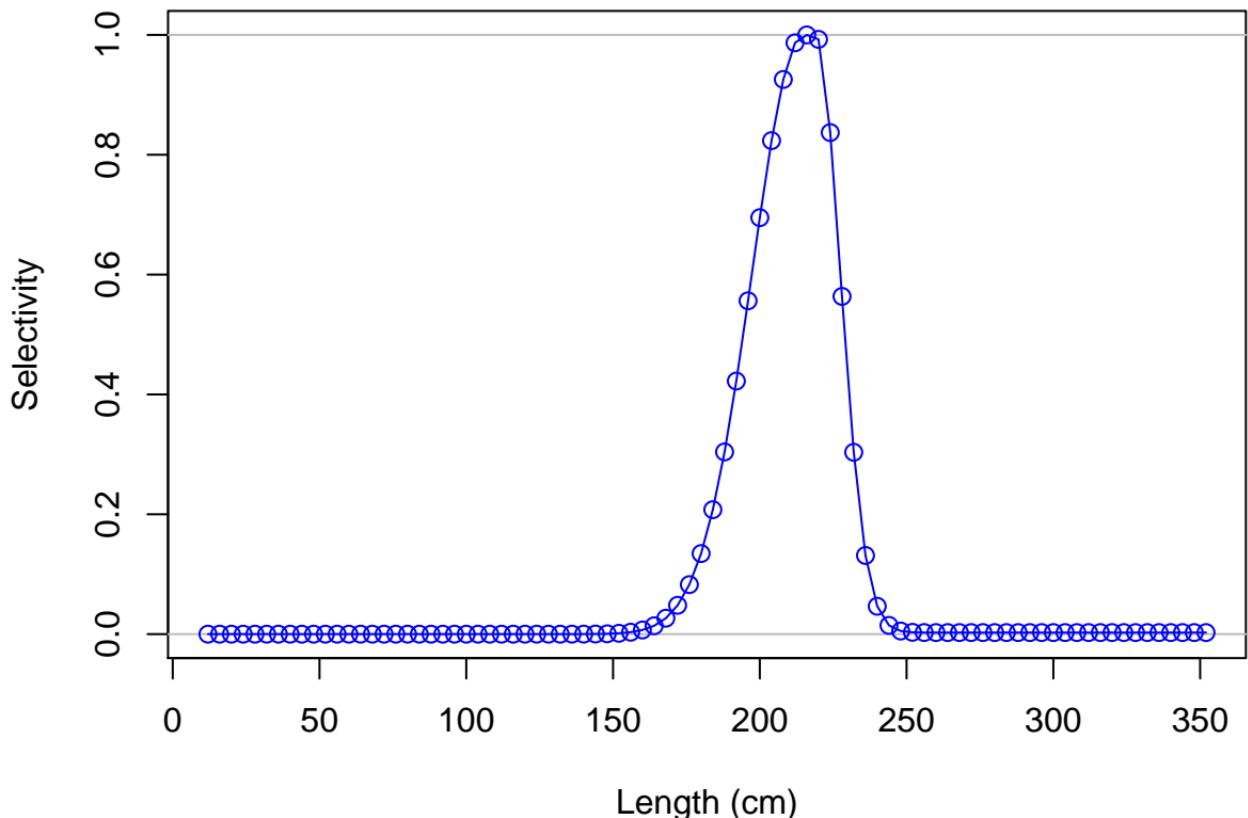
Ending year selectivity for NorPS



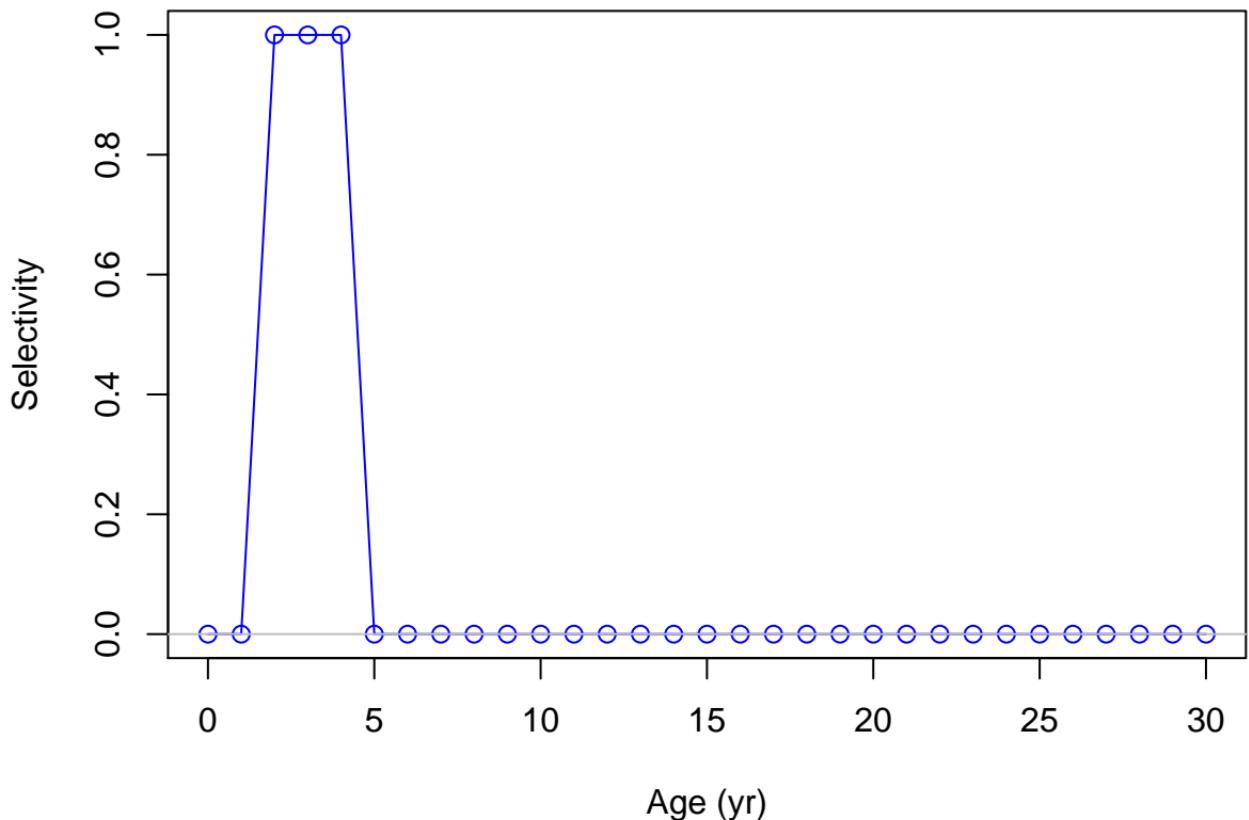
Ending year selectivity for JPLL_NEA



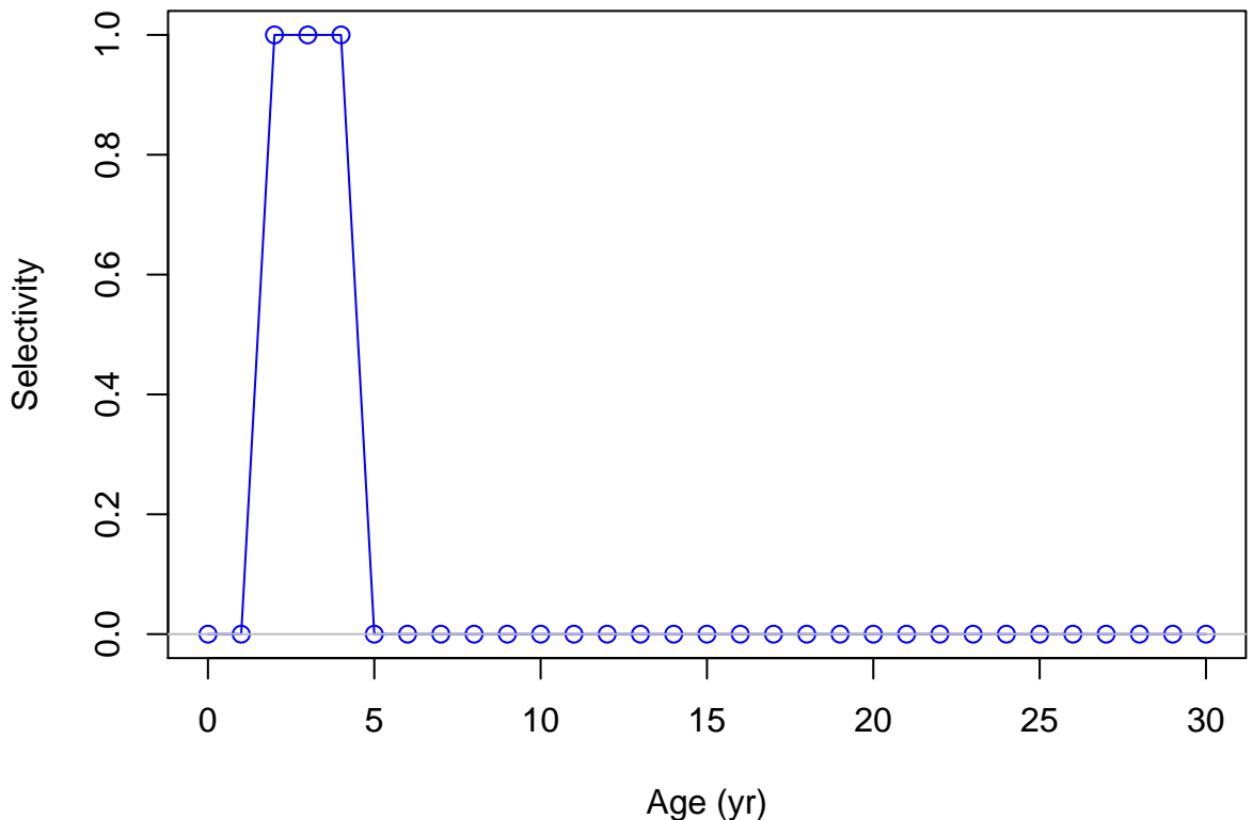
Ending year selectivity for LJPLL_NEA2



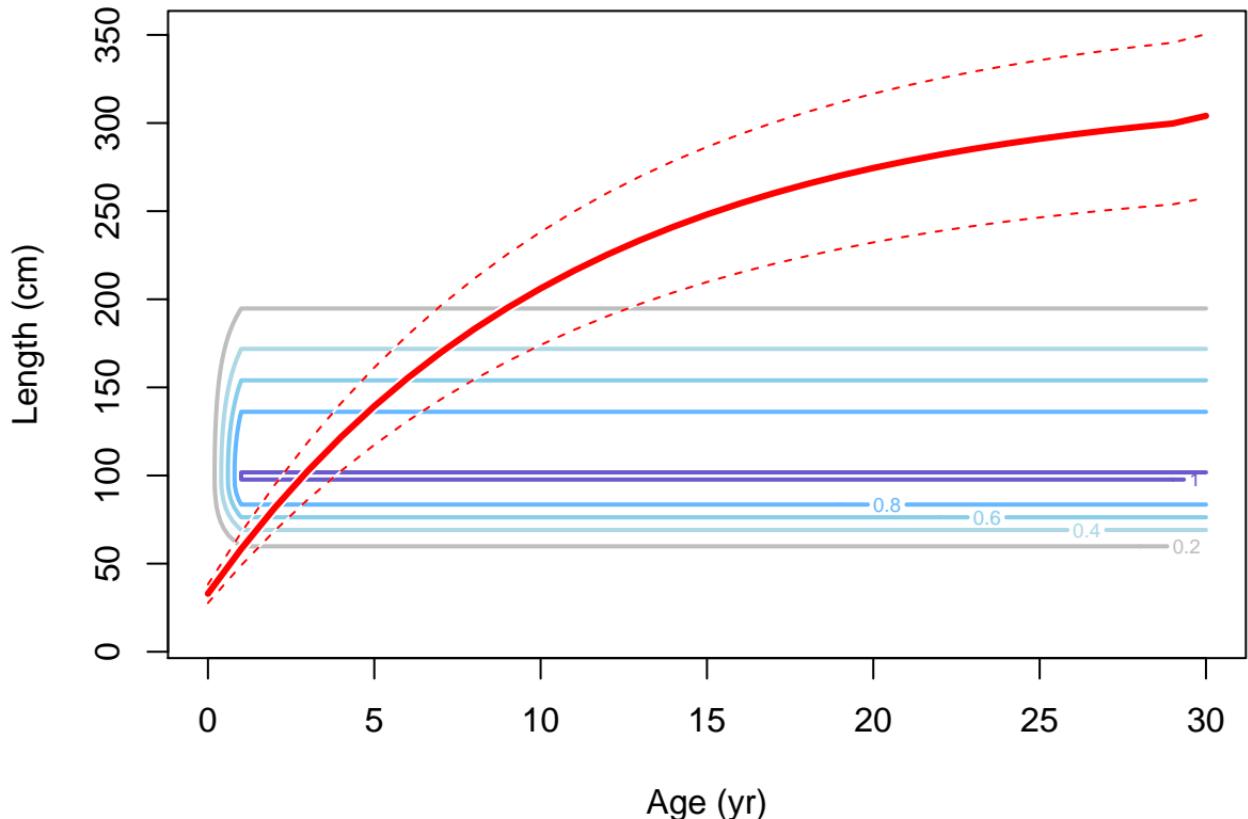
Ending year selectivity for AS1



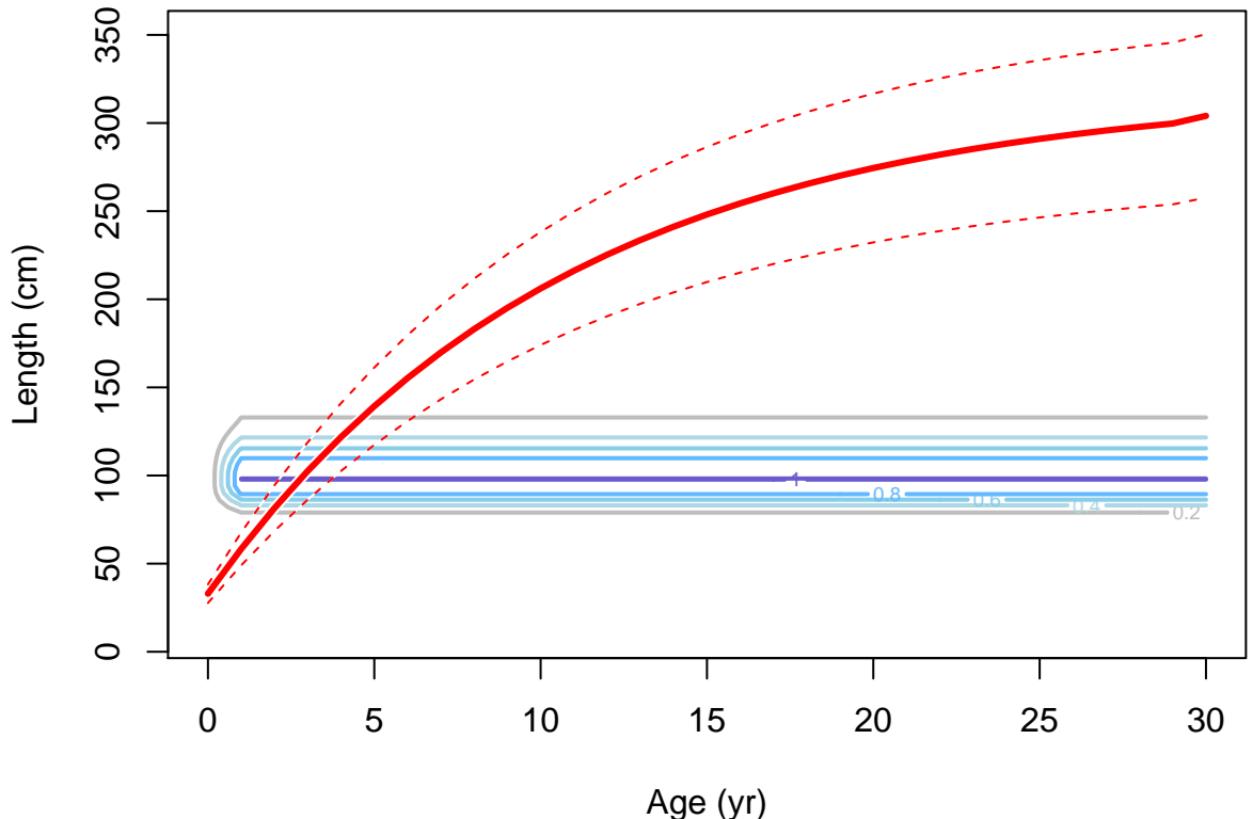
Ending year selectivity for AS2



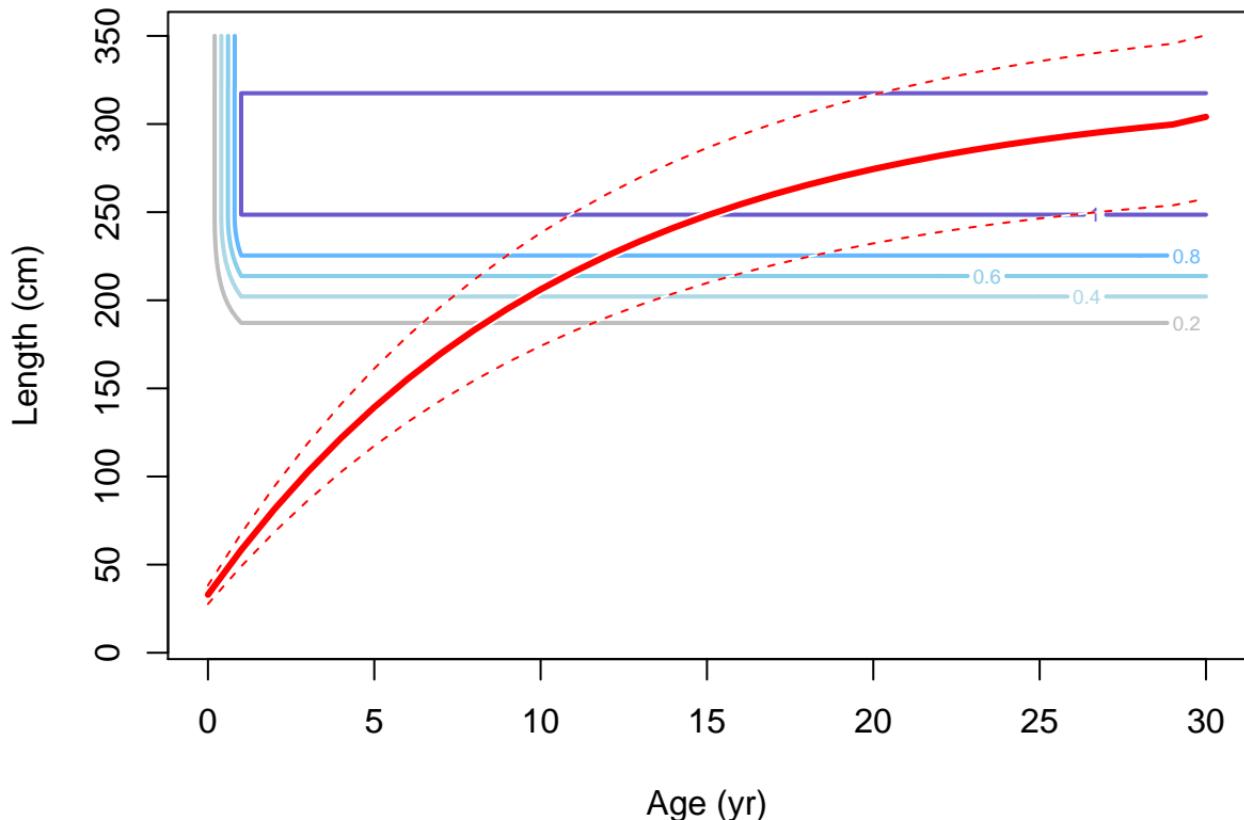
Ending year selectivity and growth for BB52_06



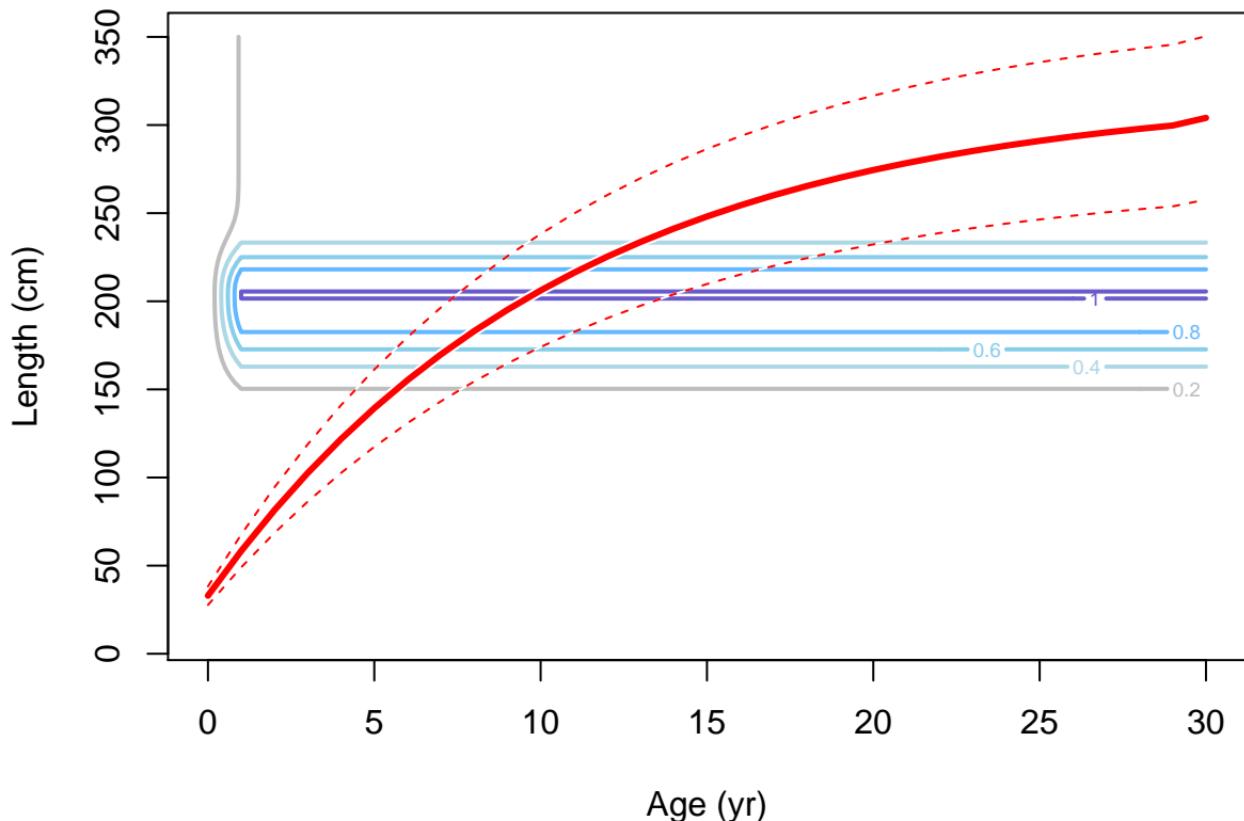
Ending year selectivity and growth for BB06_15



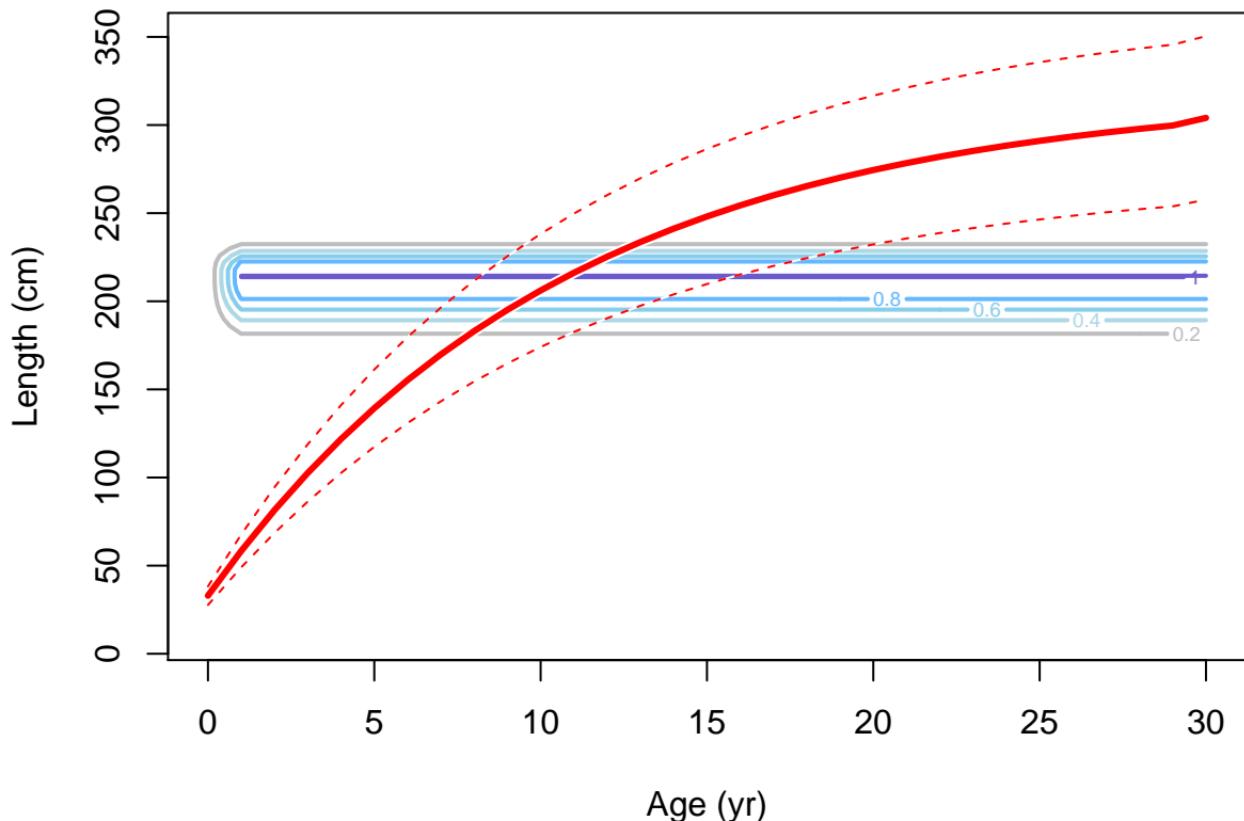
Ending year selectivity and growth for LL1



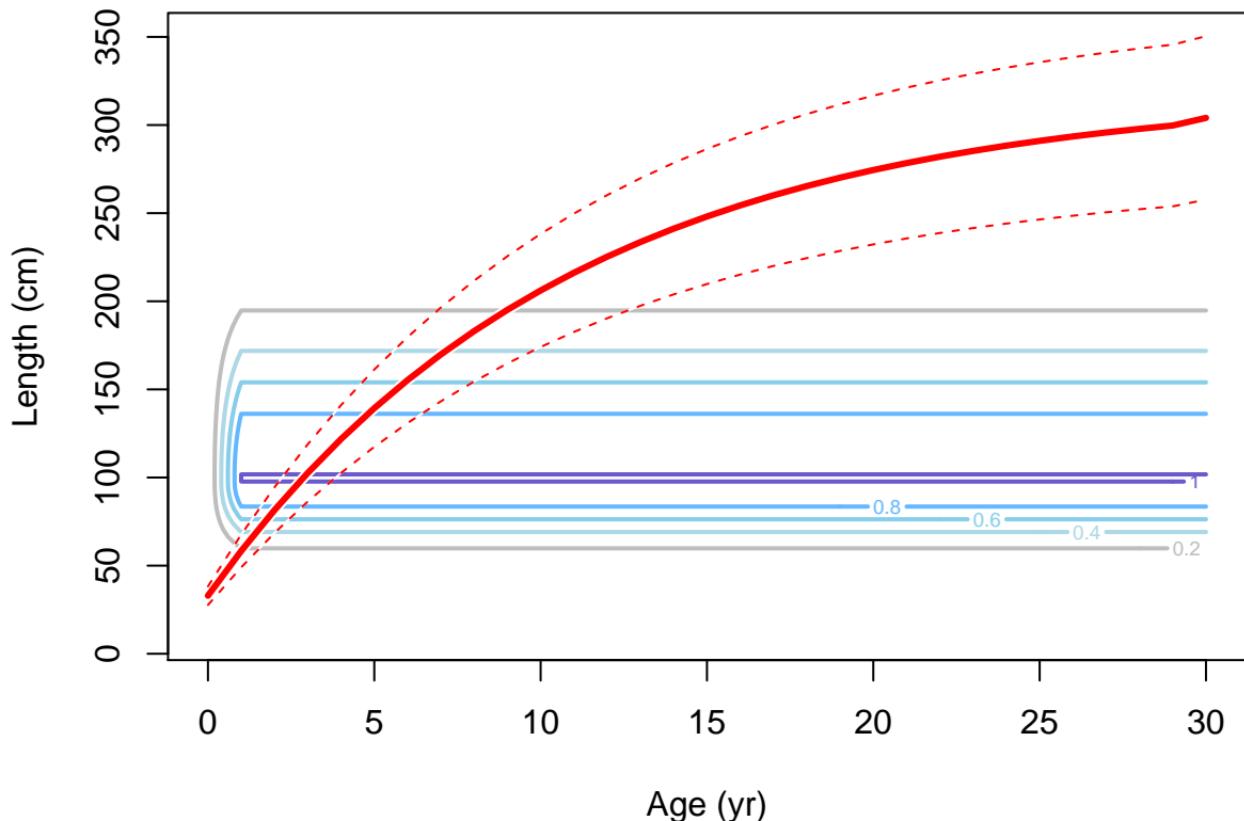
Ending year selectivity and growth for LL2



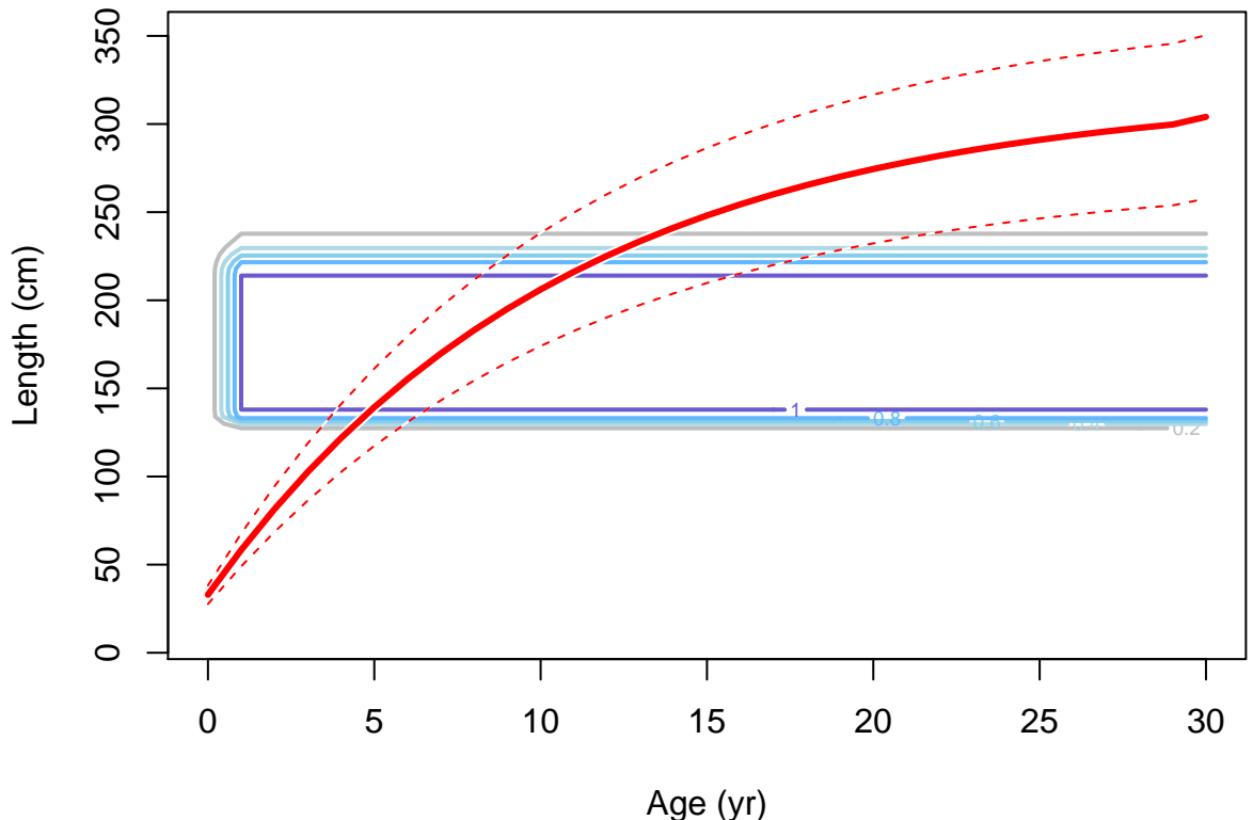
Ending year selectivity and growth for LL3



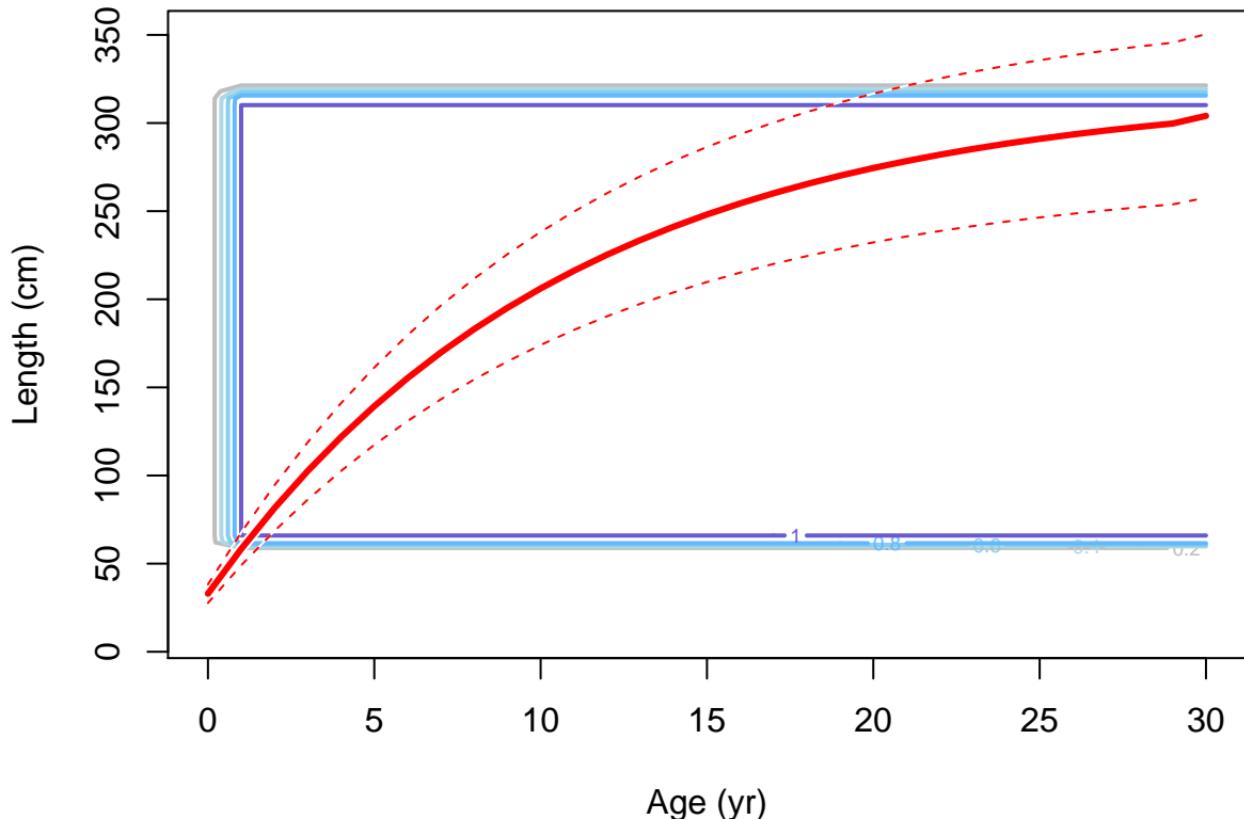
Ending year selectivity and growth for LL4



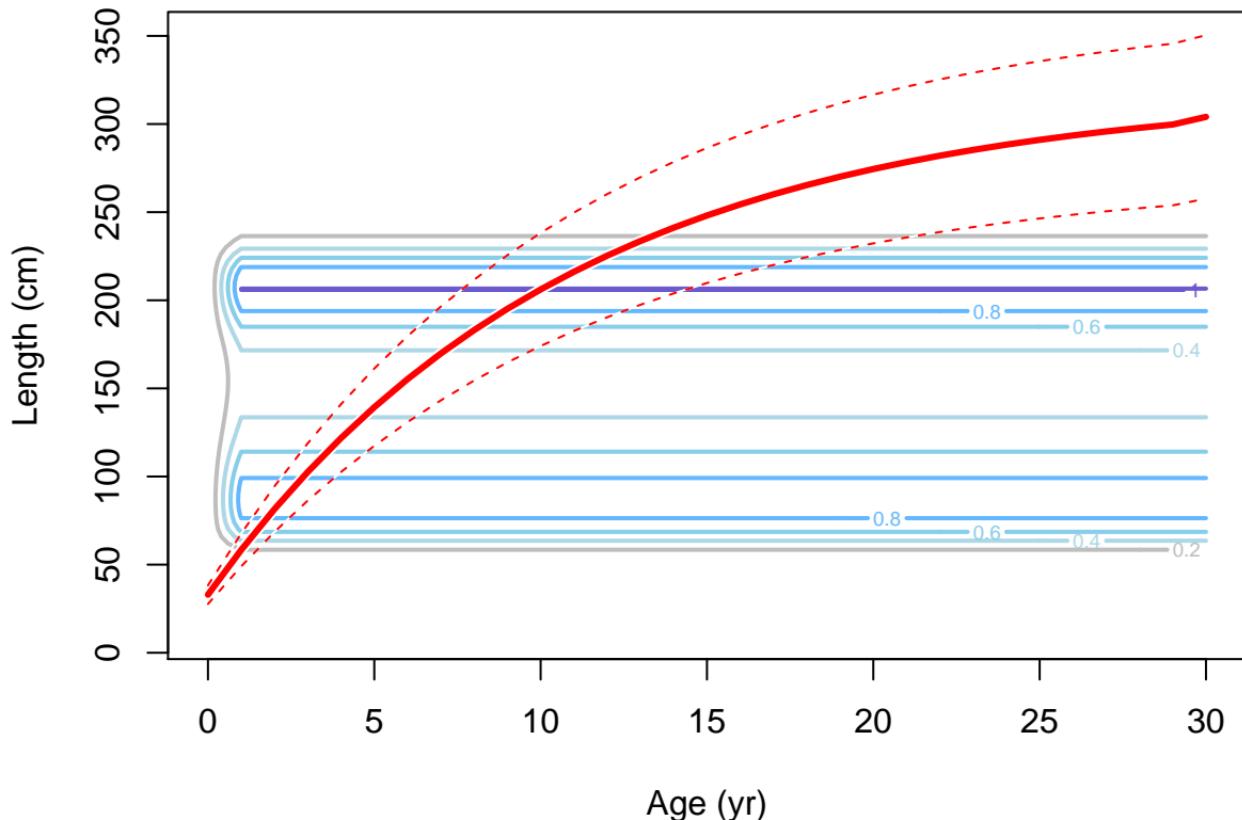
Ending year selectivity and growth for PS_NOR



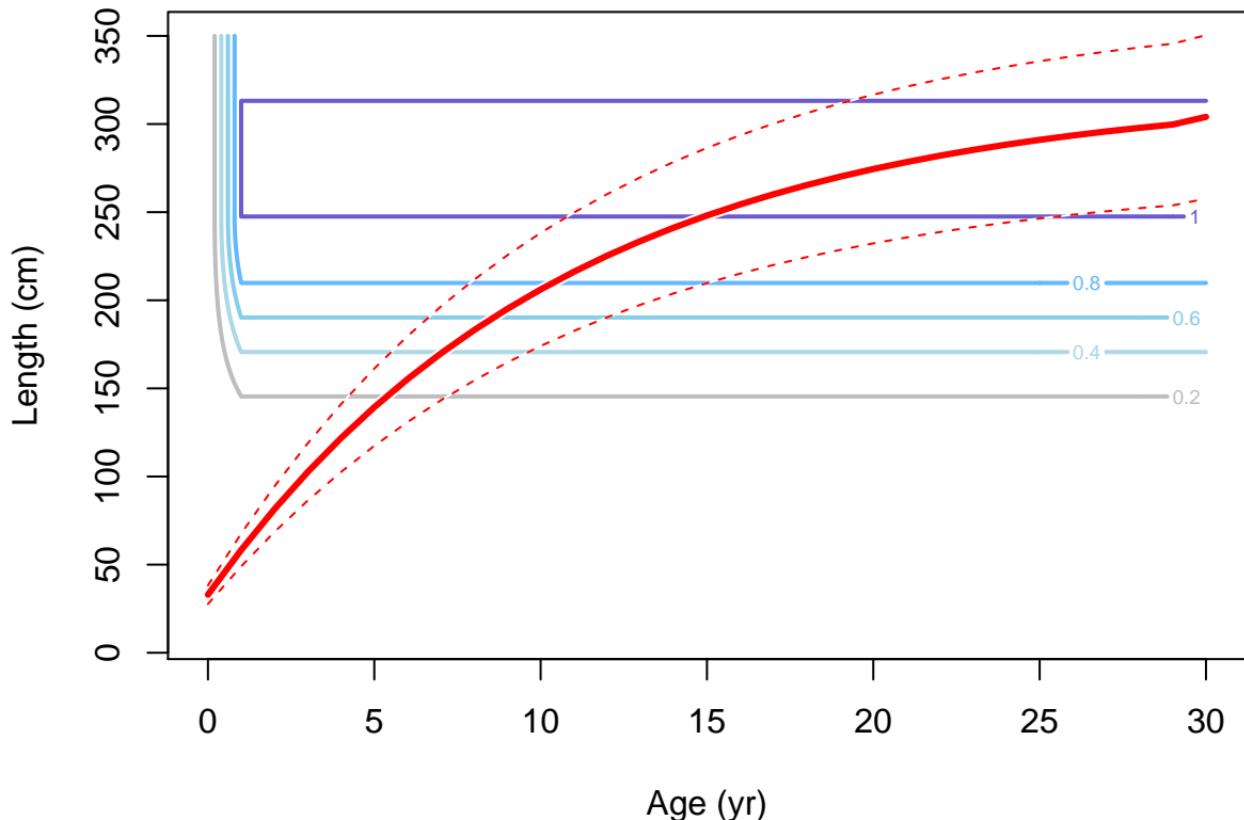
Ending year selectivity and growth for PS_CRO



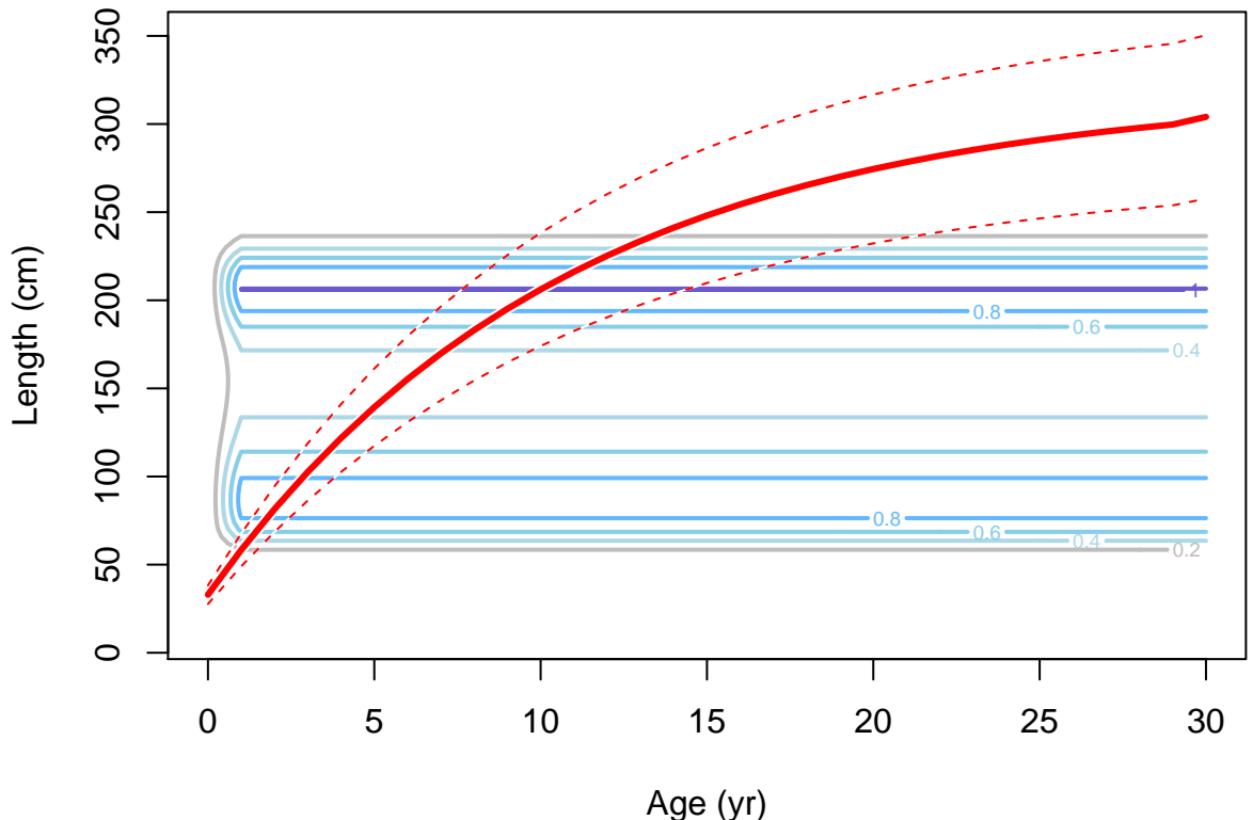
Ending year selectivity and growth for PS_FR



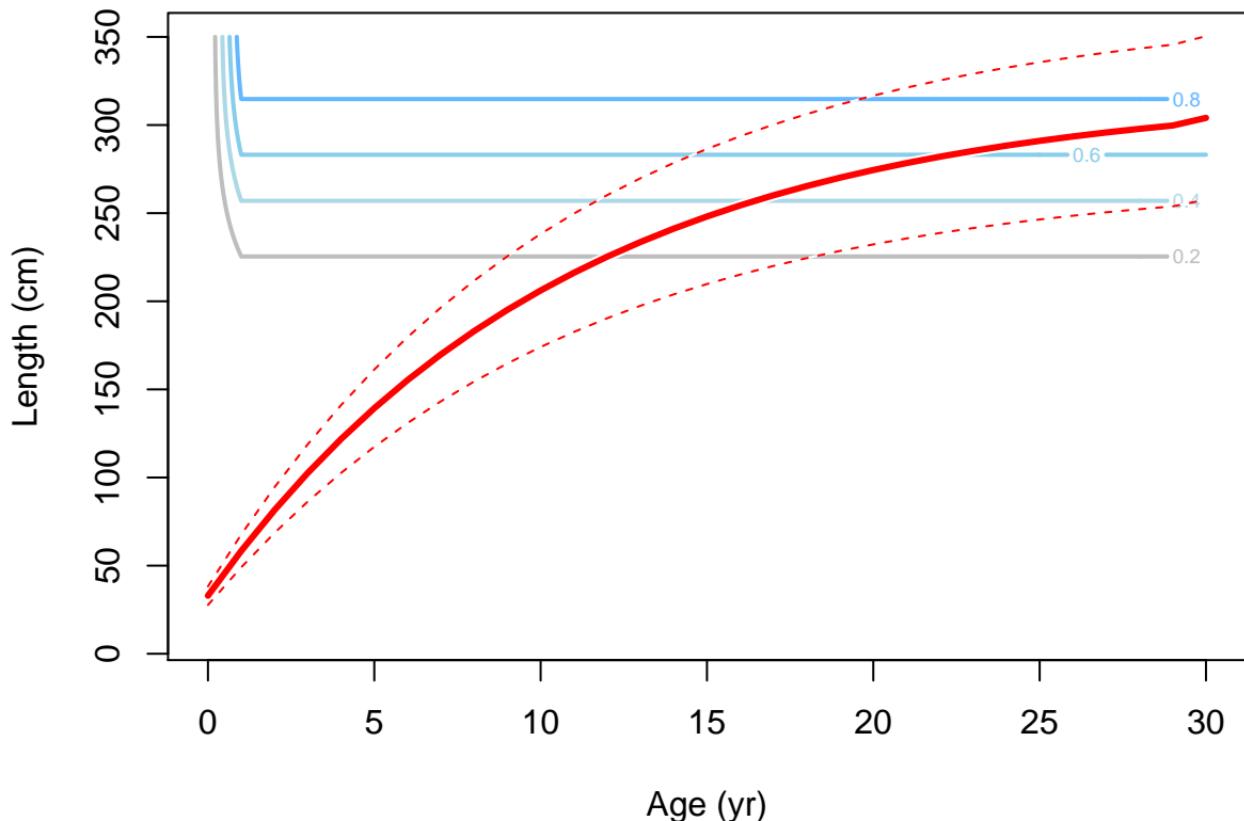
Ending year selectivity and growth for PSOTHER



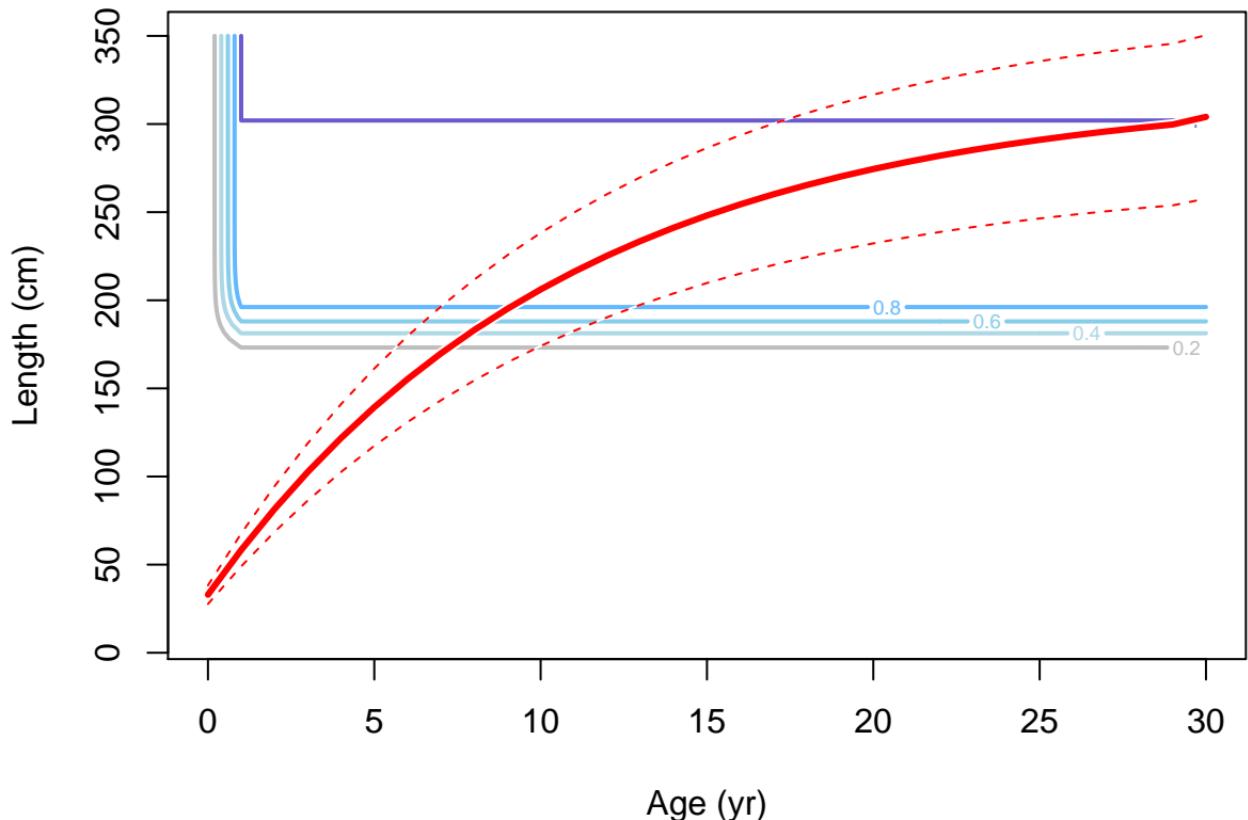
Ending year selectivity and growth for PSINFL



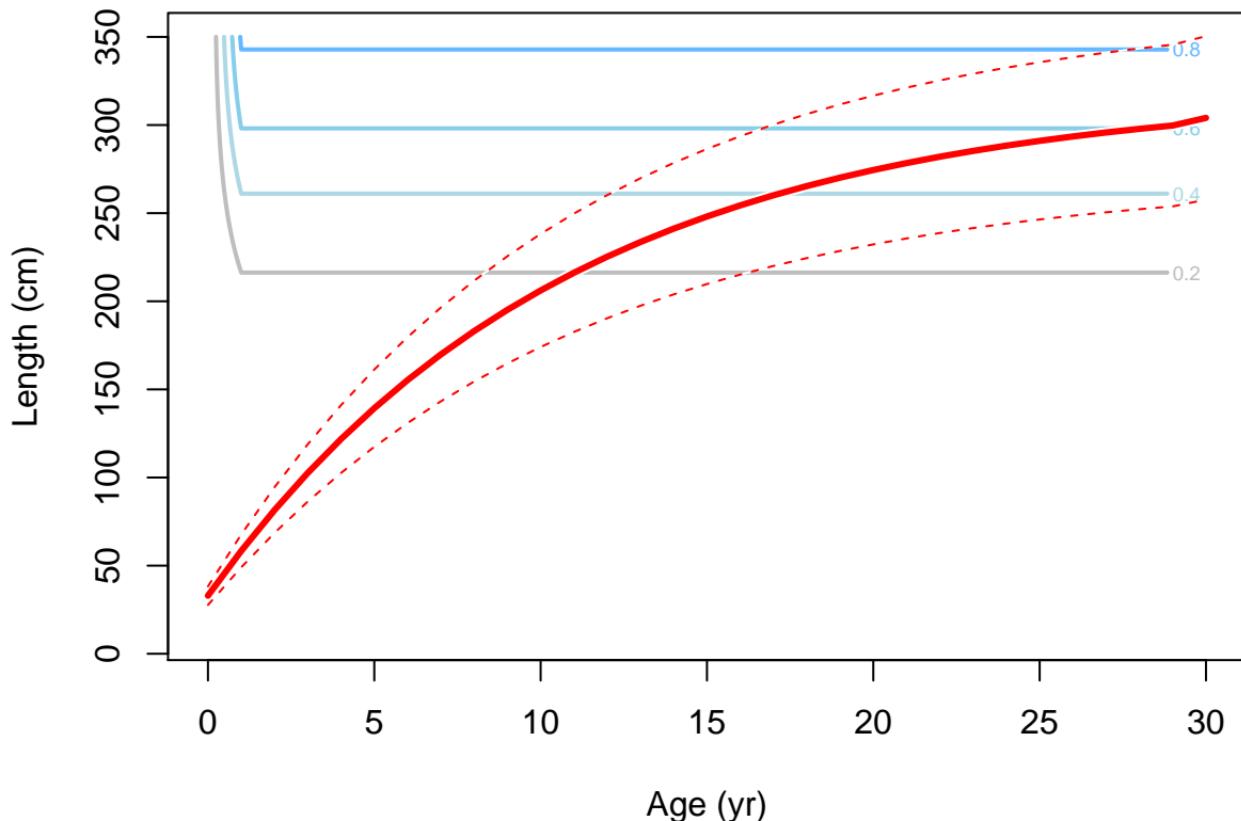
Ending year selectivity and growth for TRP1



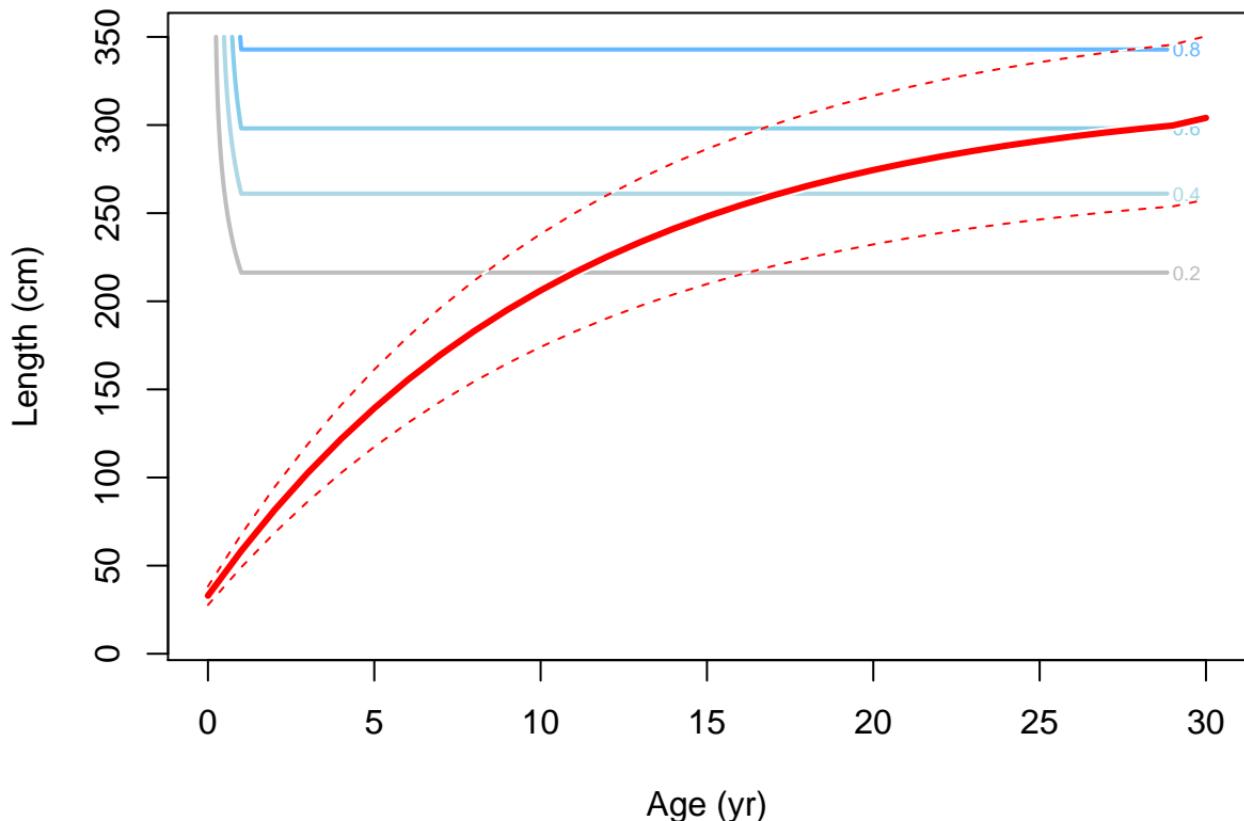
Ending year selectivity and growth for TRP2



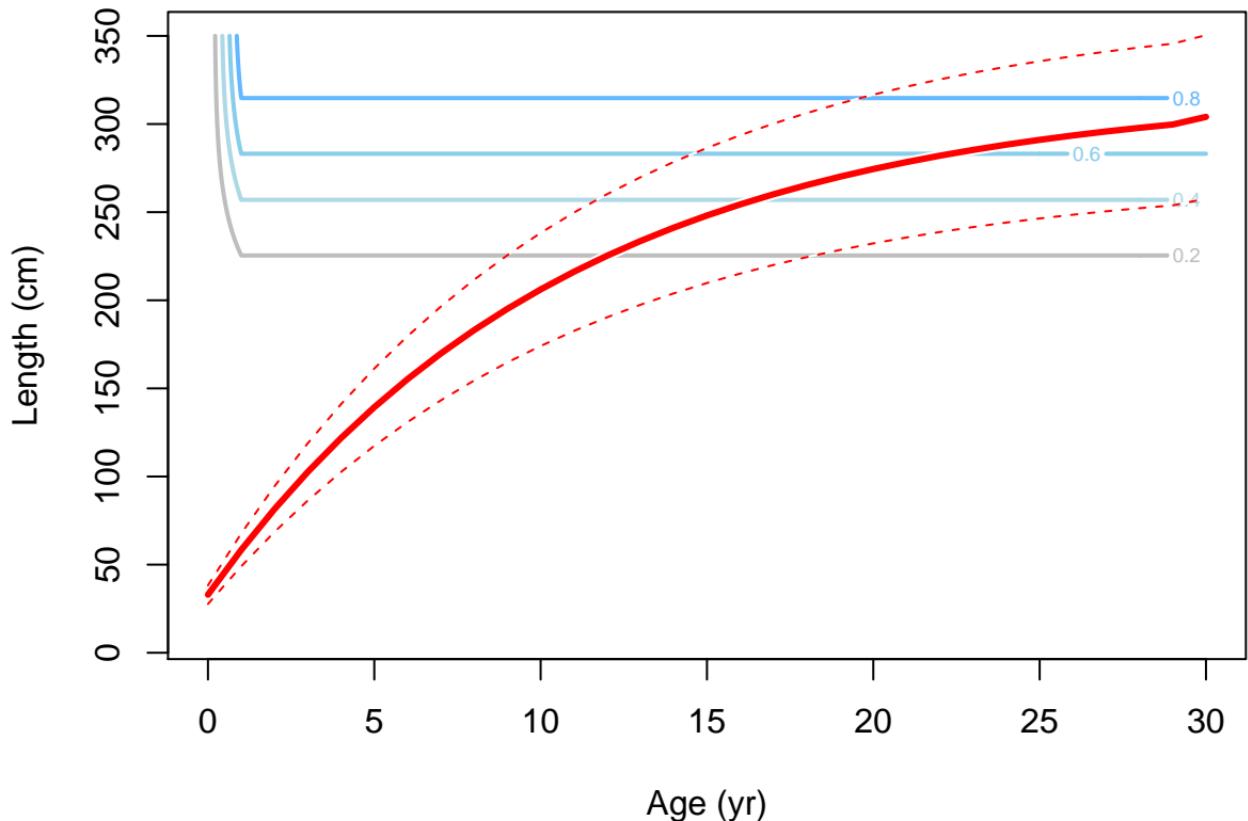
Ending year selectivity and growth for TRPOTHER



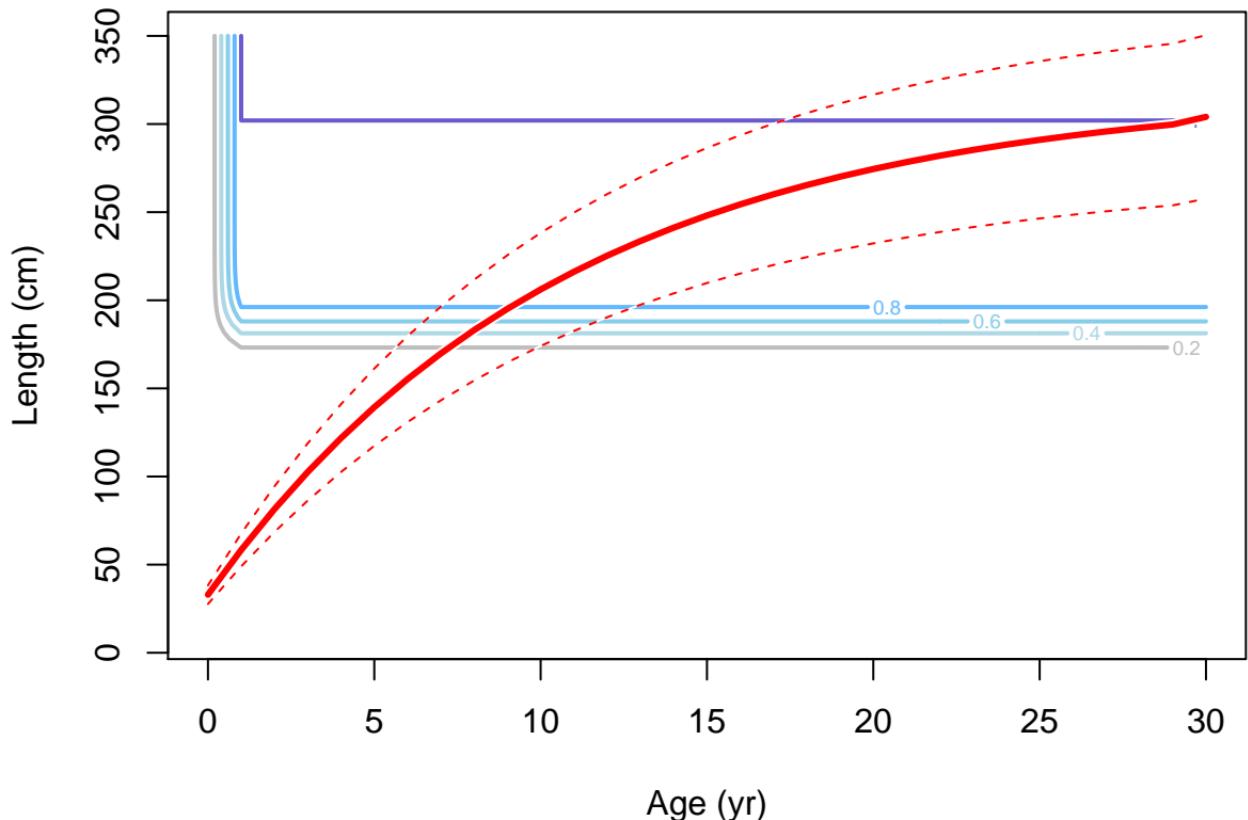
Ending year selectivity and growth for OTR



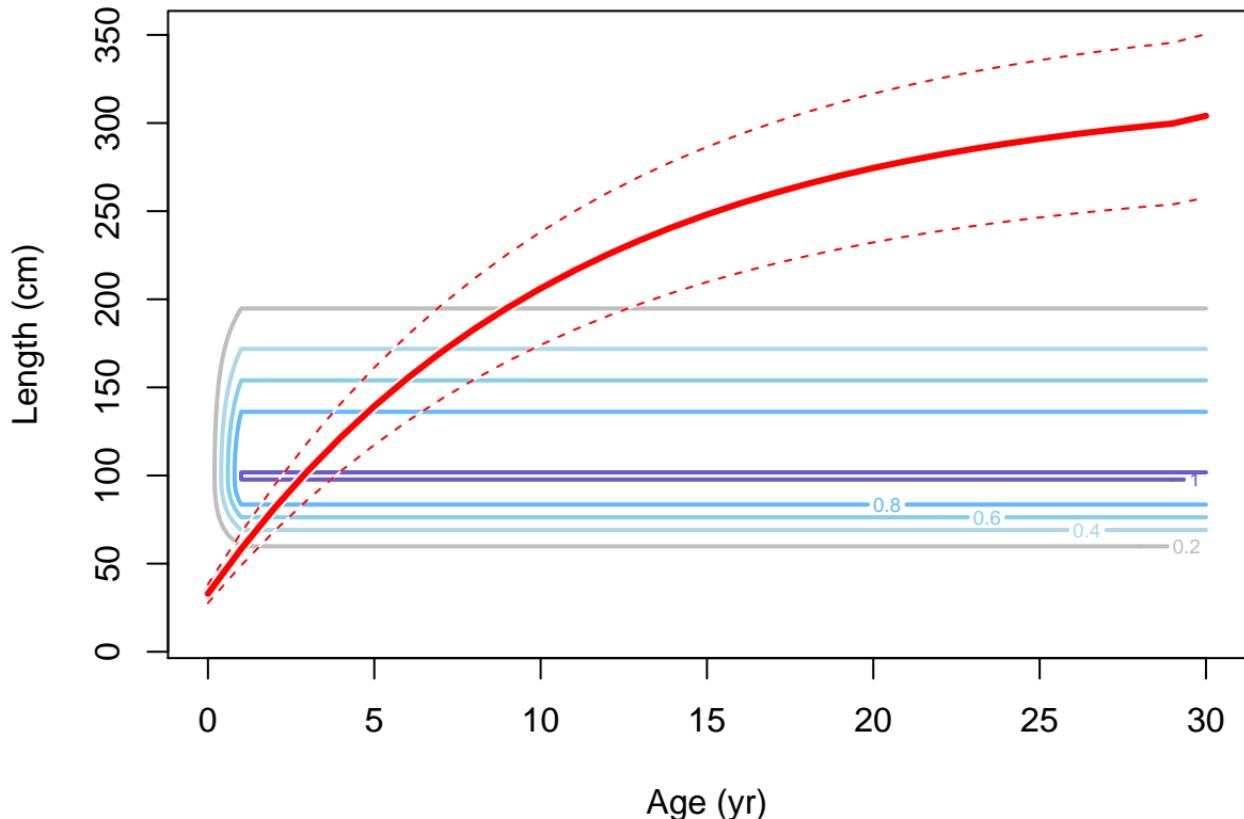
Ending year selectivity and growth for MOR1



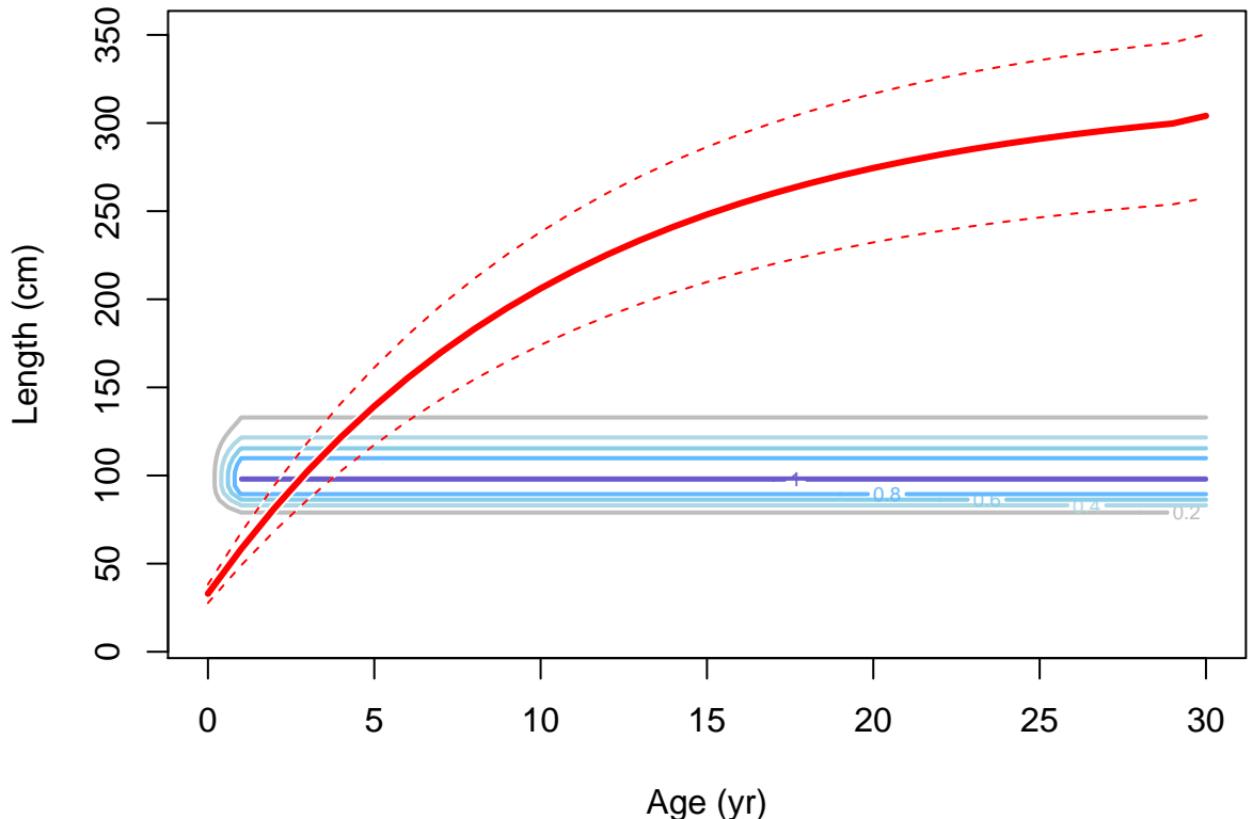
Ending year selectivity and growth for MOR2



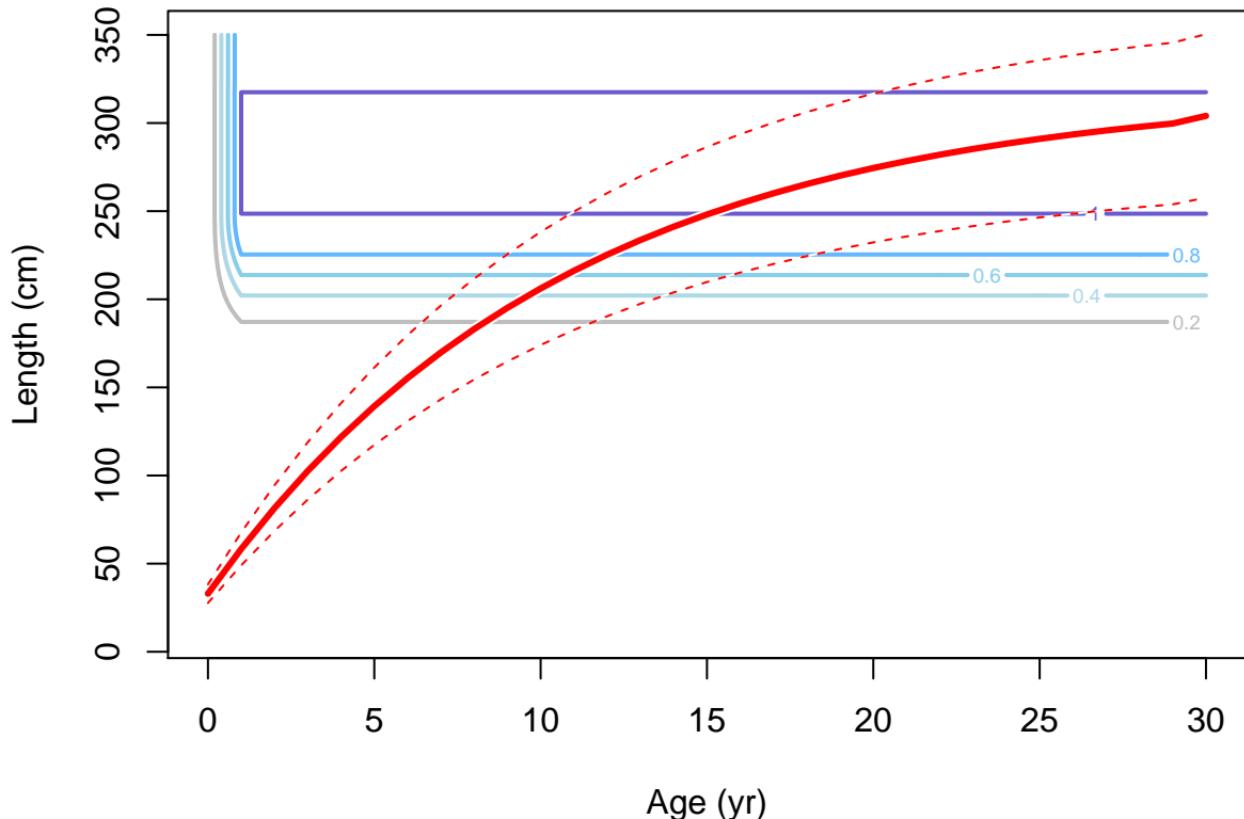
Ending year selectivity and growth for SpBB1



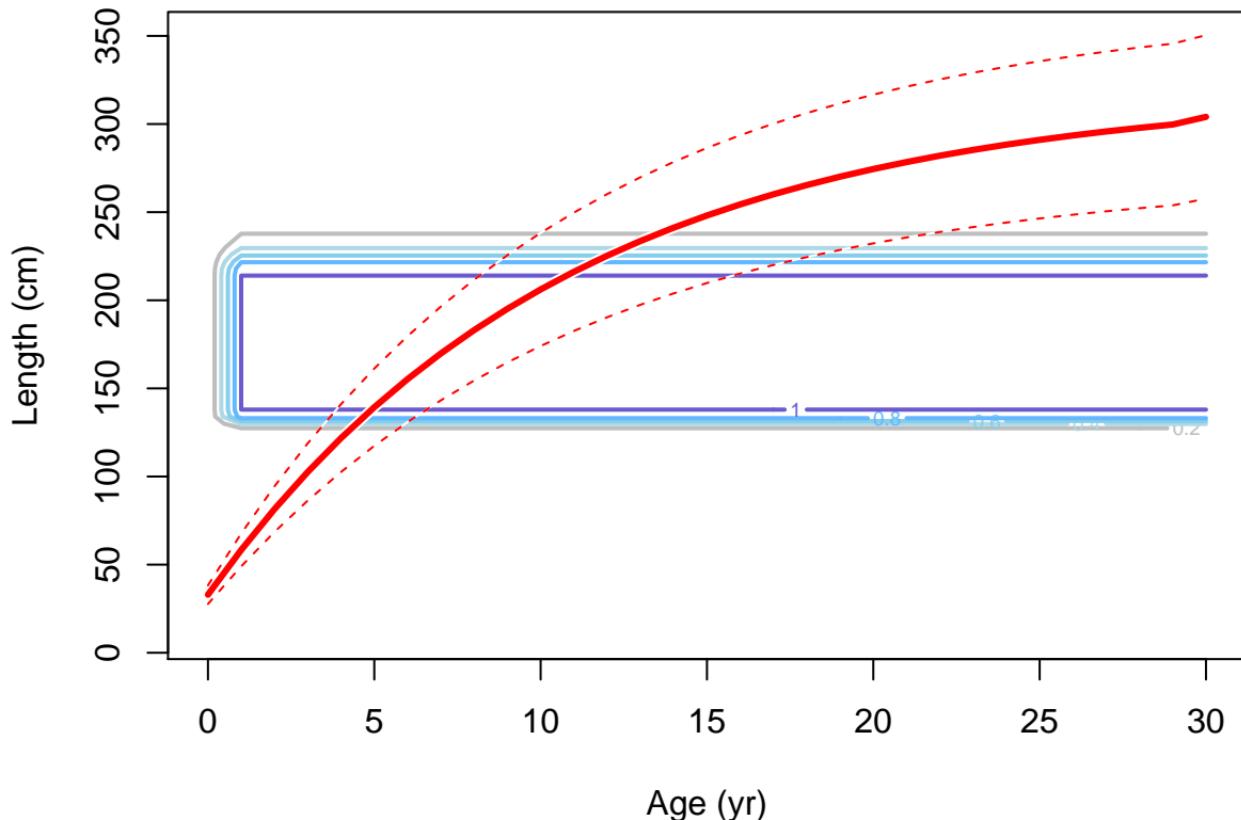
Ending year selectivity and growth for SPBB2



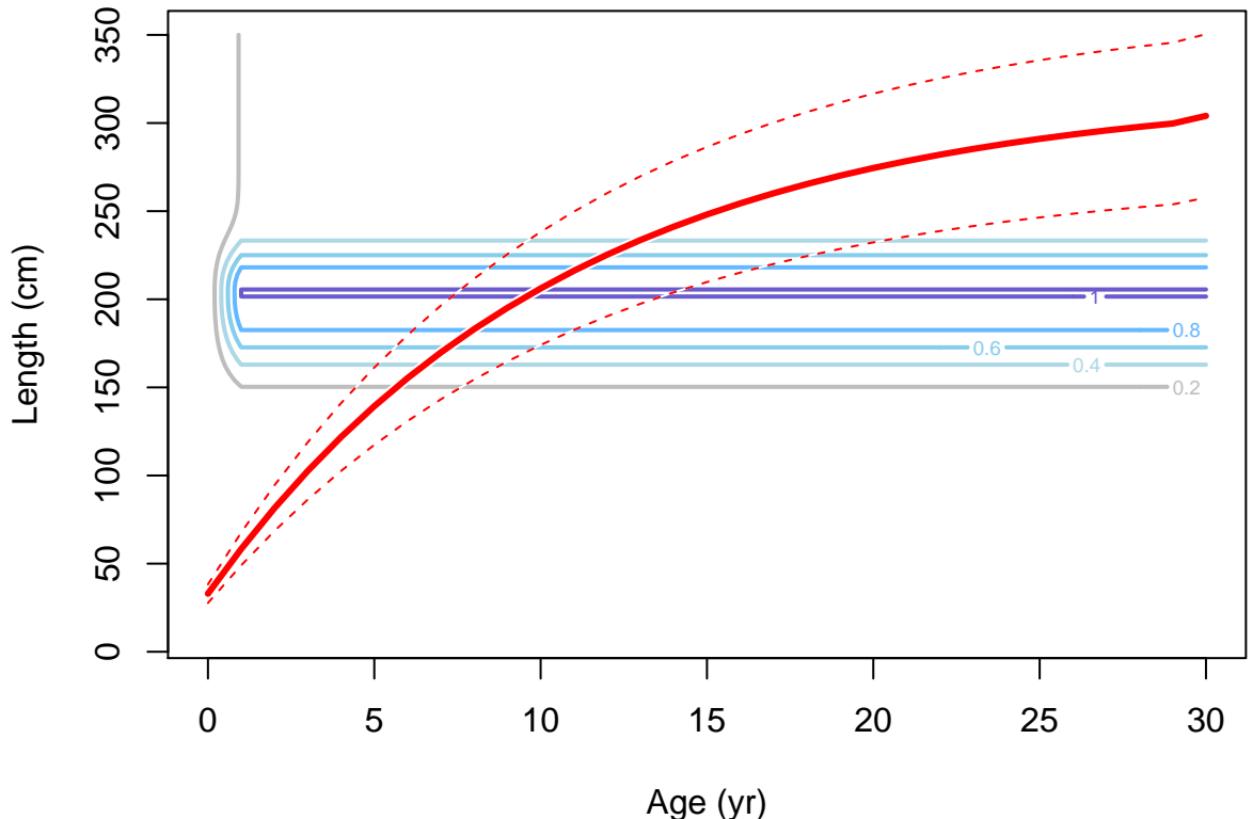
Ending year selectivity and growth for JPLL_EM



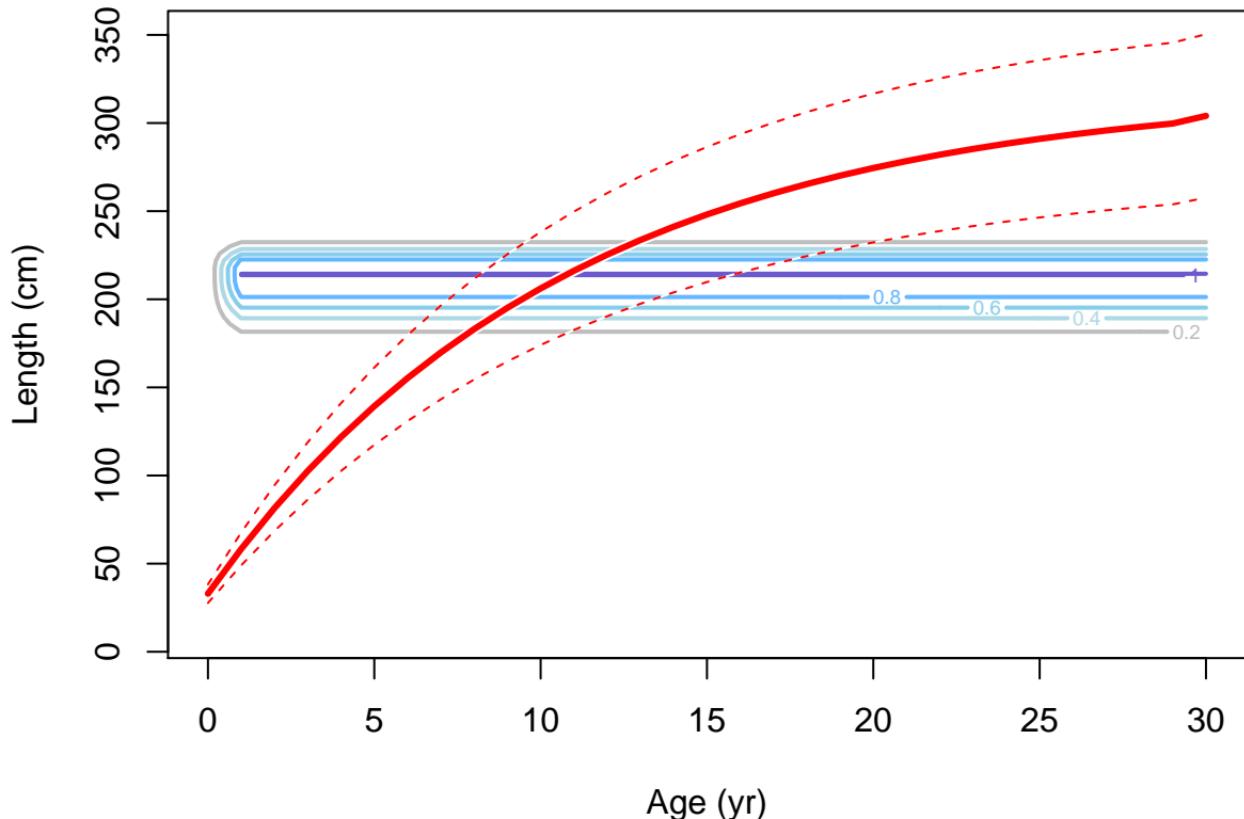
Ending year selectivity and growth for NorPS



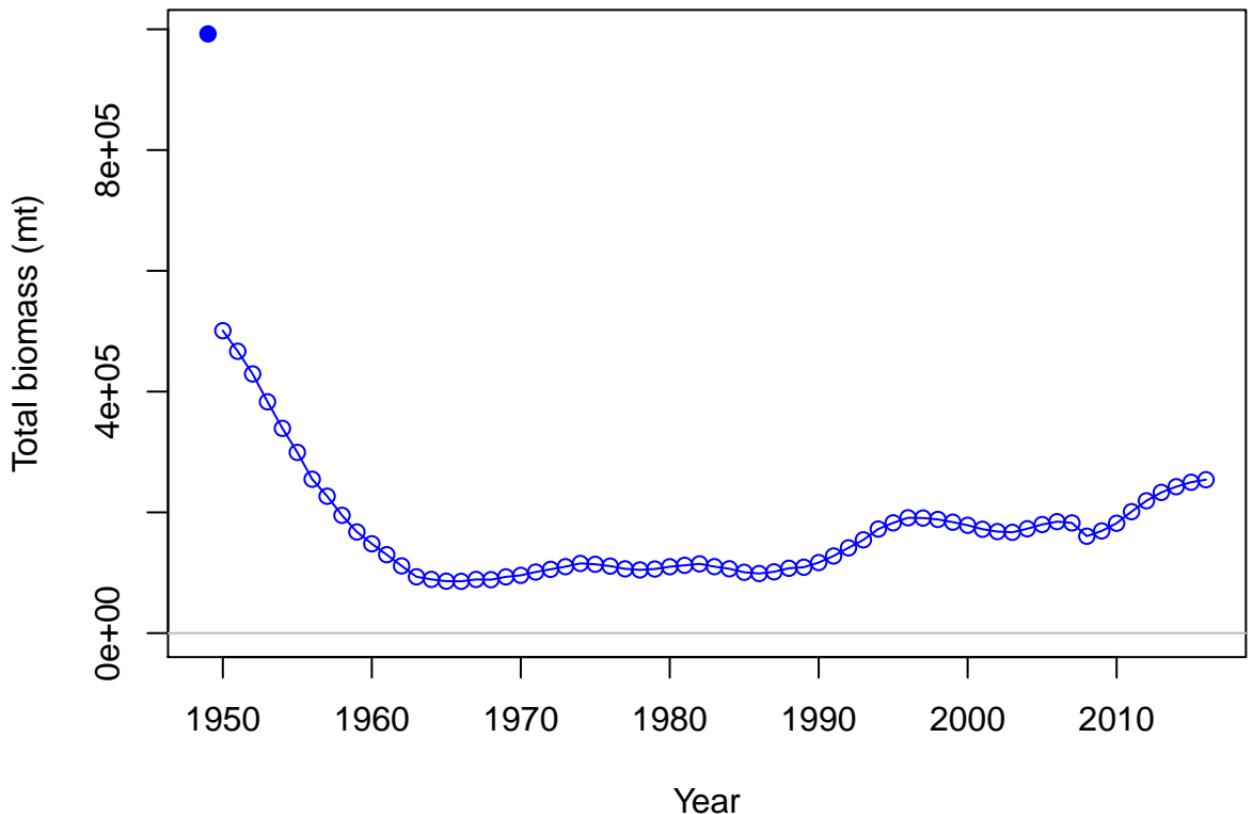
Ending year selectivity and growth for JPLL_NEA



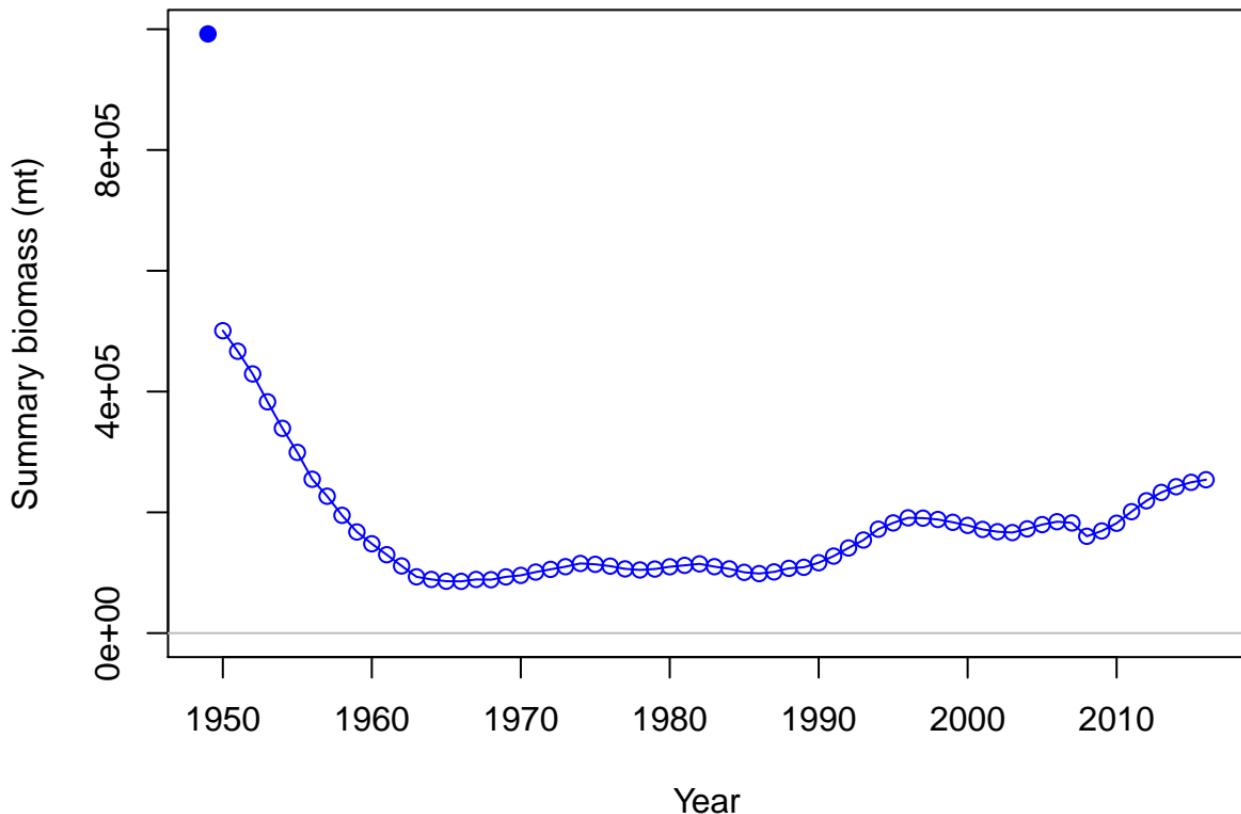
Ending year selectivity and growth for LJPLL_NEA2



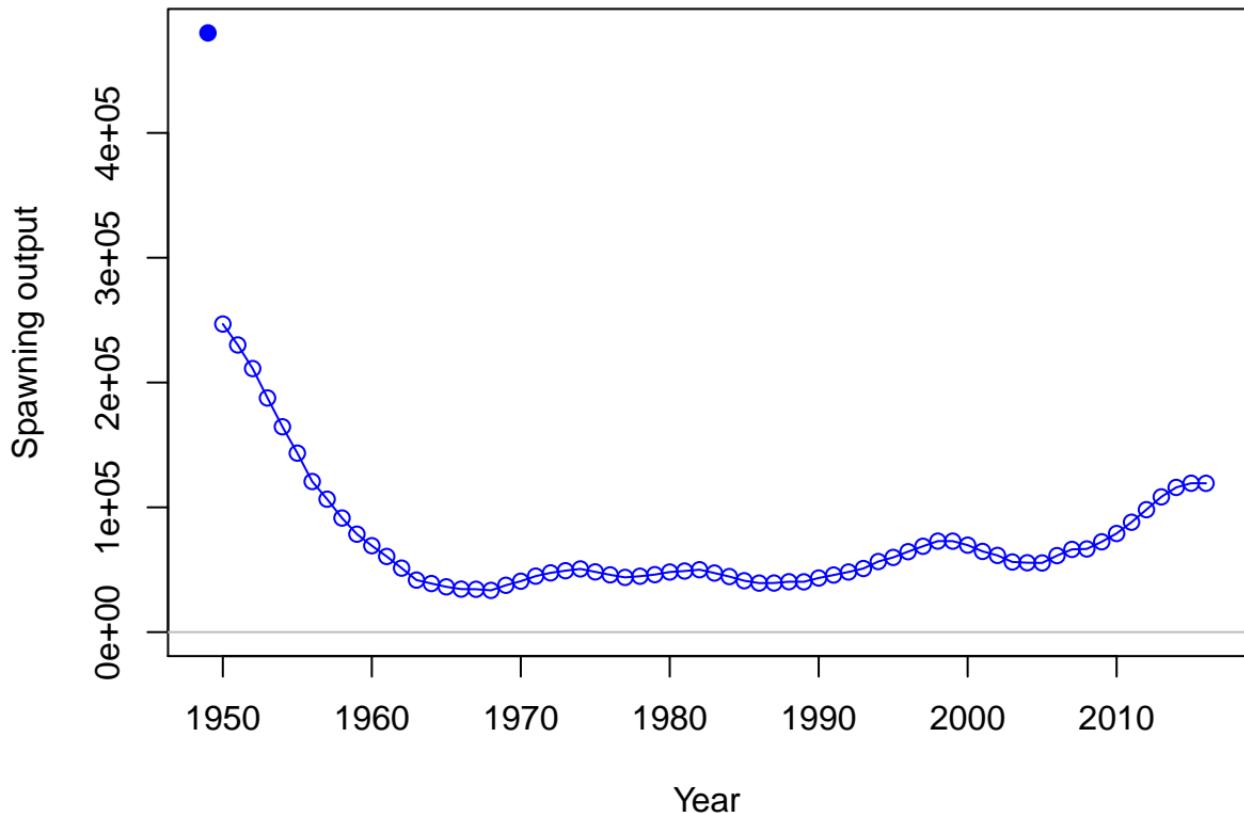
Total biomass (mt)



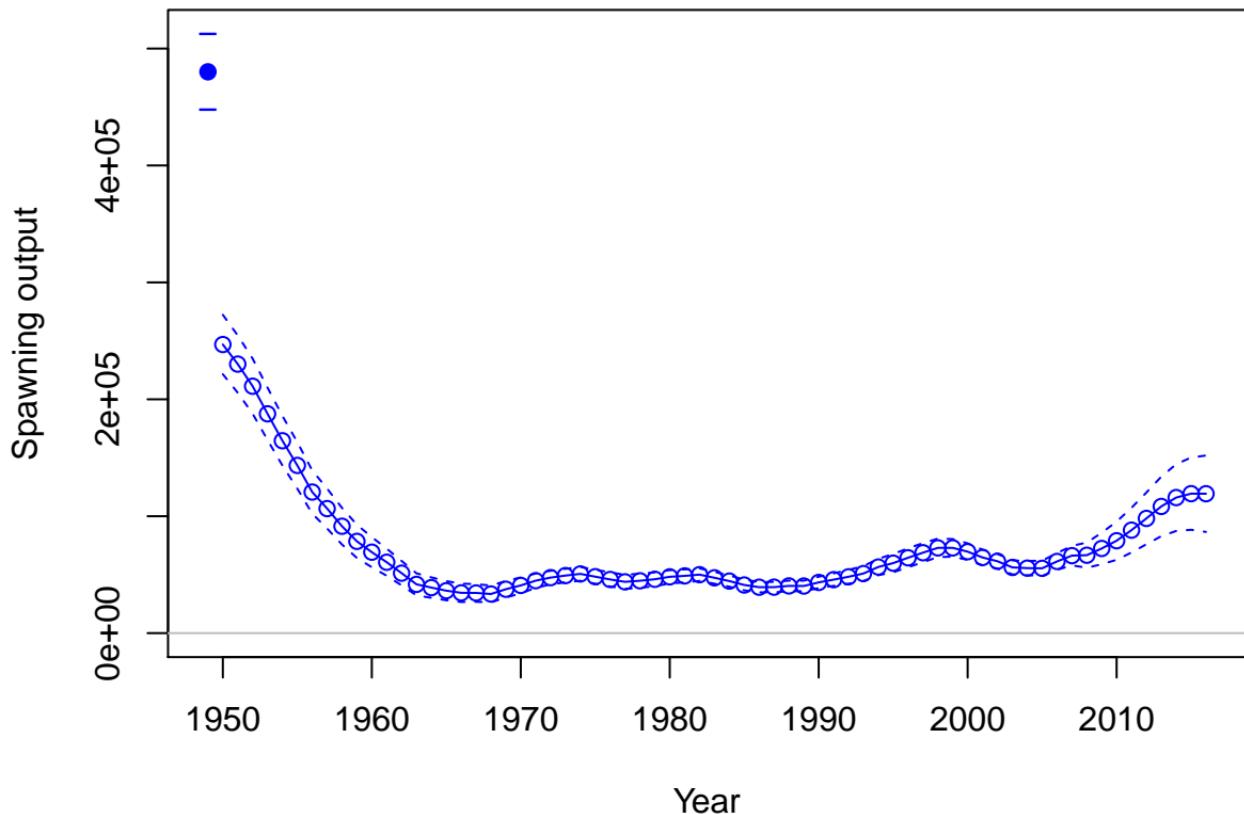
Summary biomass (mt)



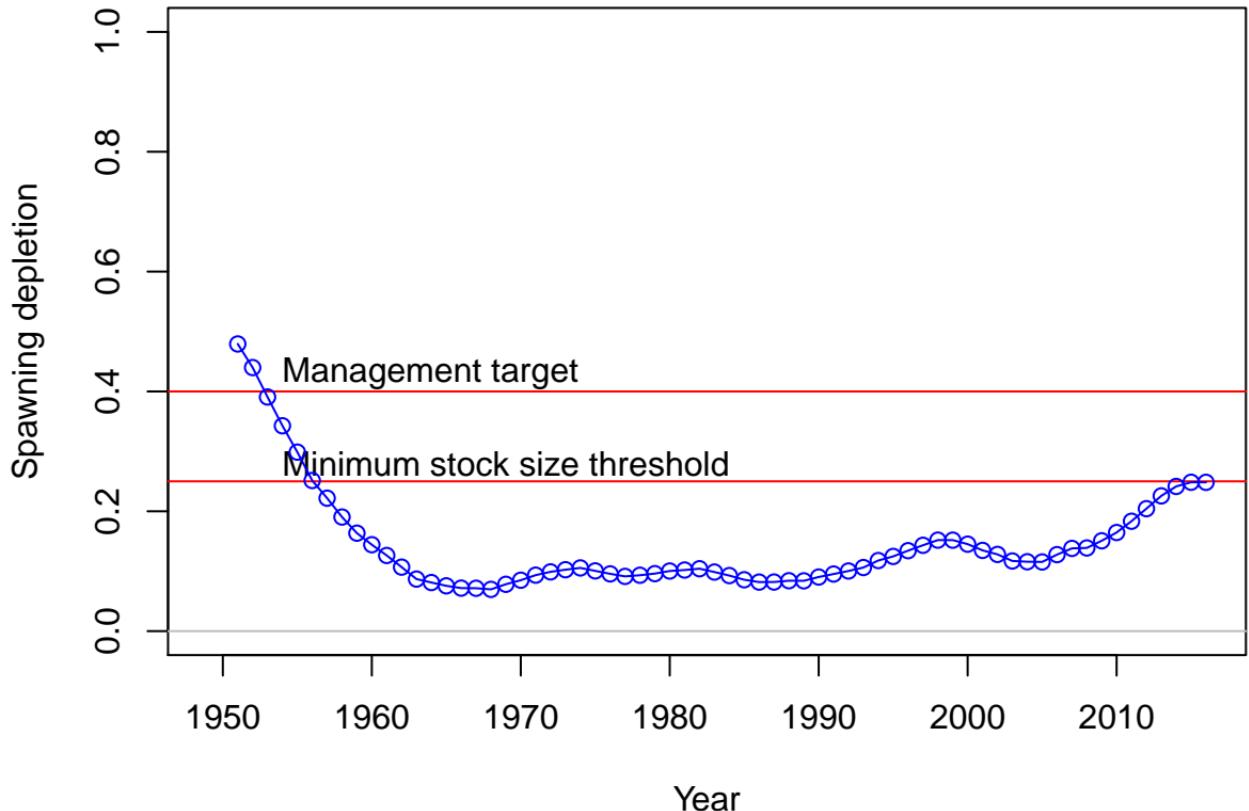
Spawning output



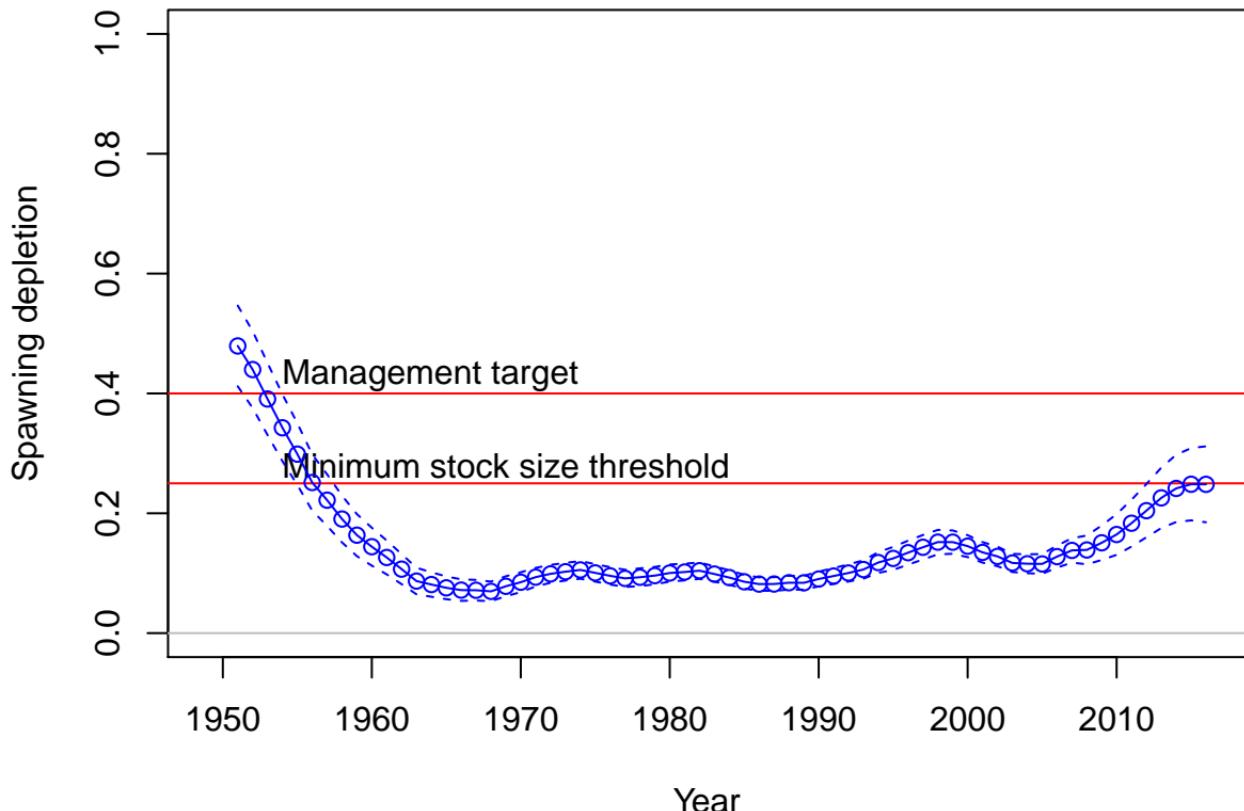
Spawning output with ~95% asymptotic intervals



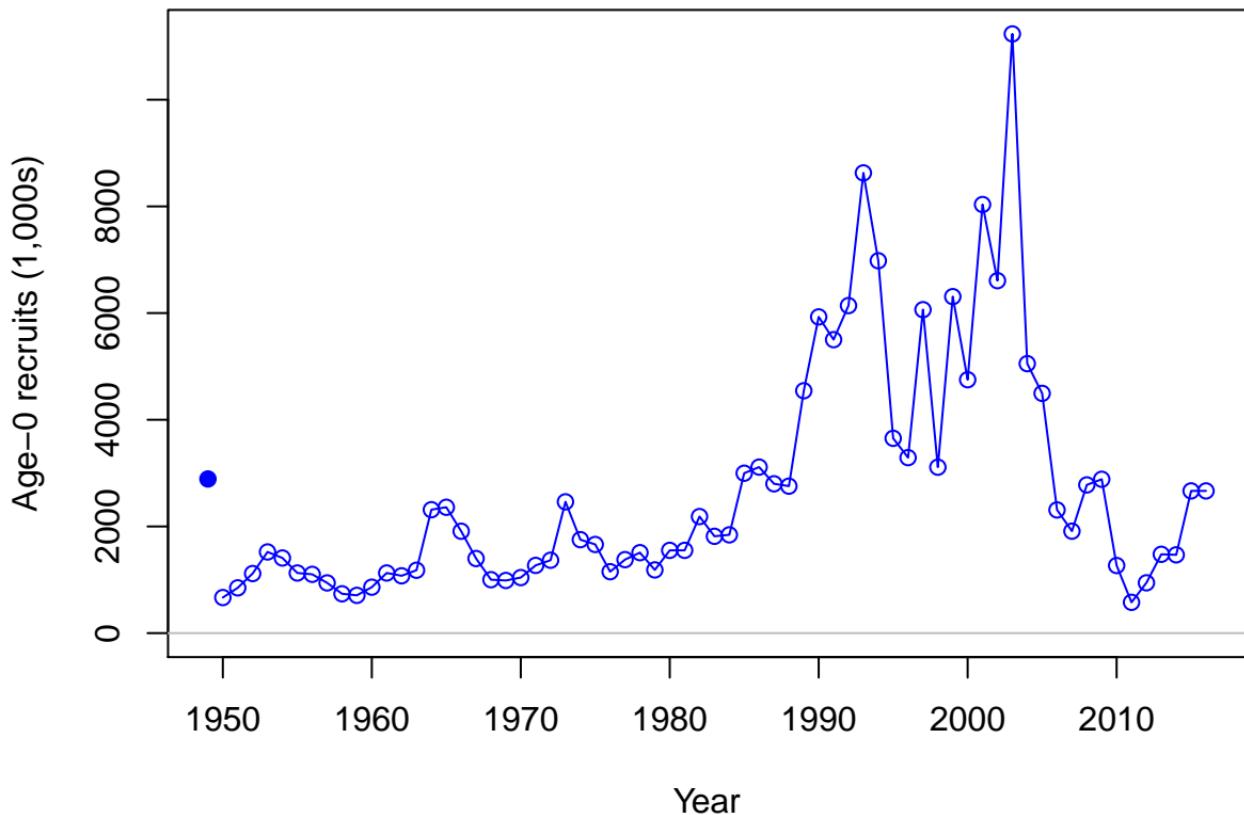
Spawning depletion



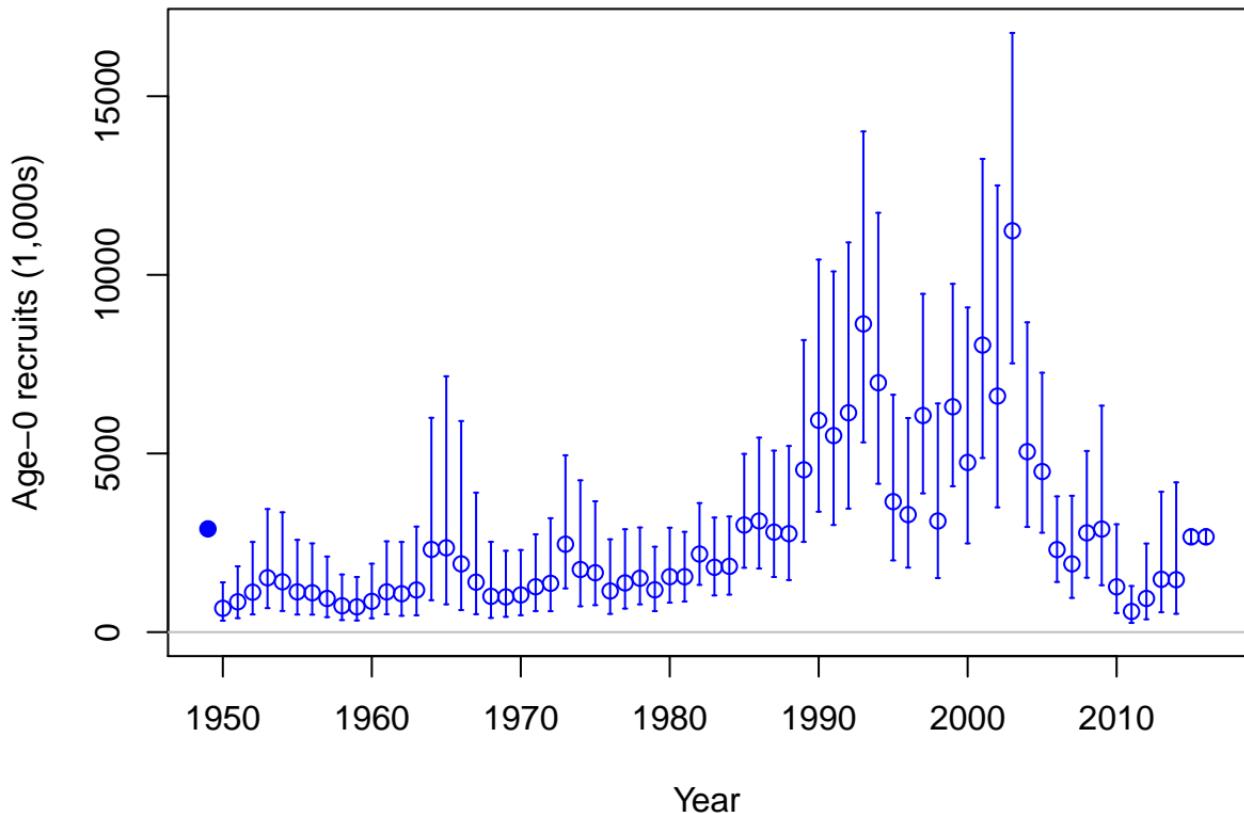
Spawning depletion with ~95% asymptotic intervals



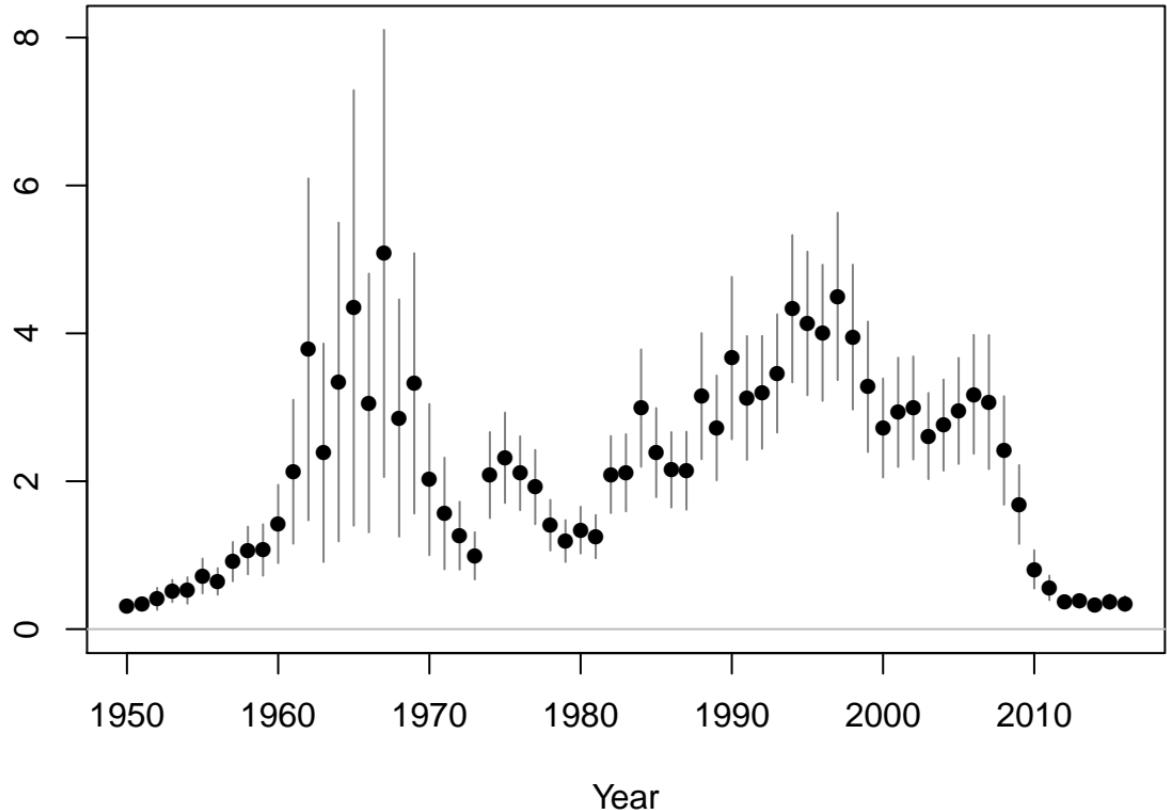
Age-0 recruits (1,000s)

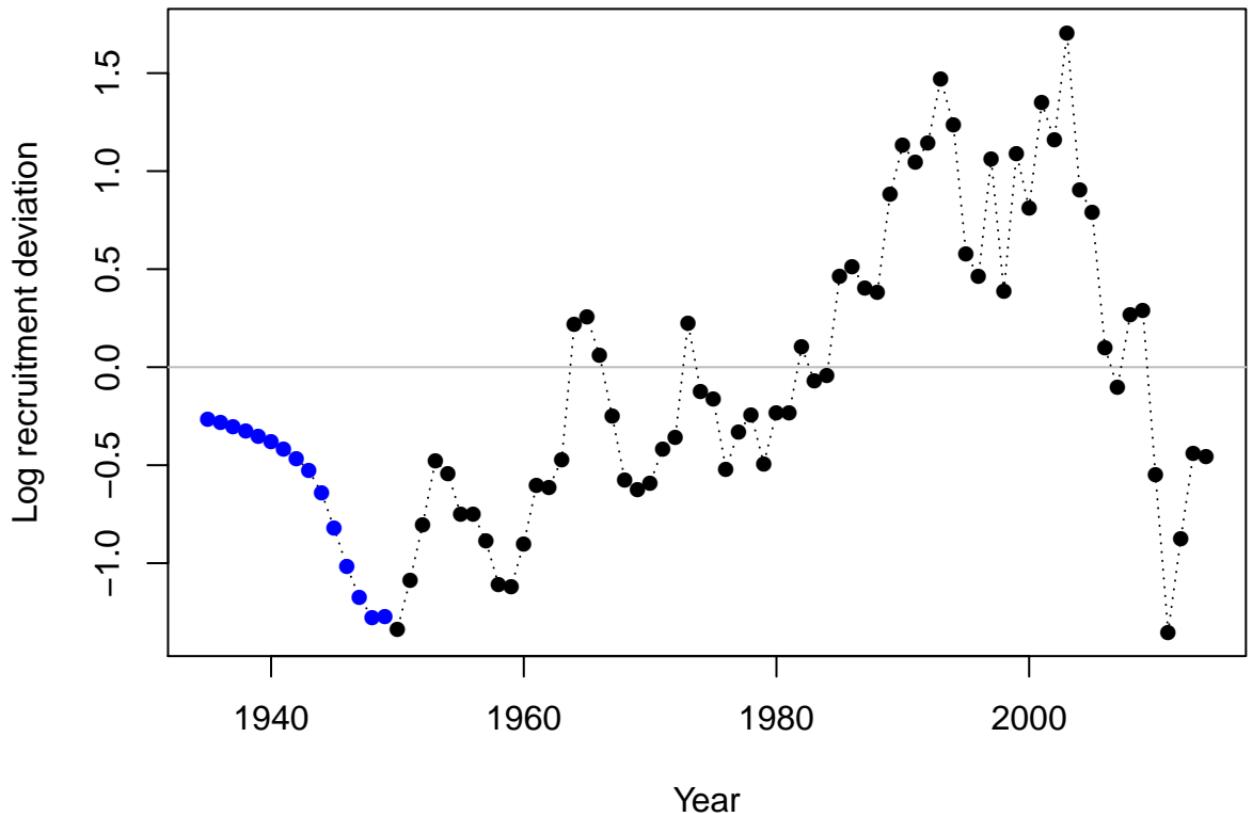


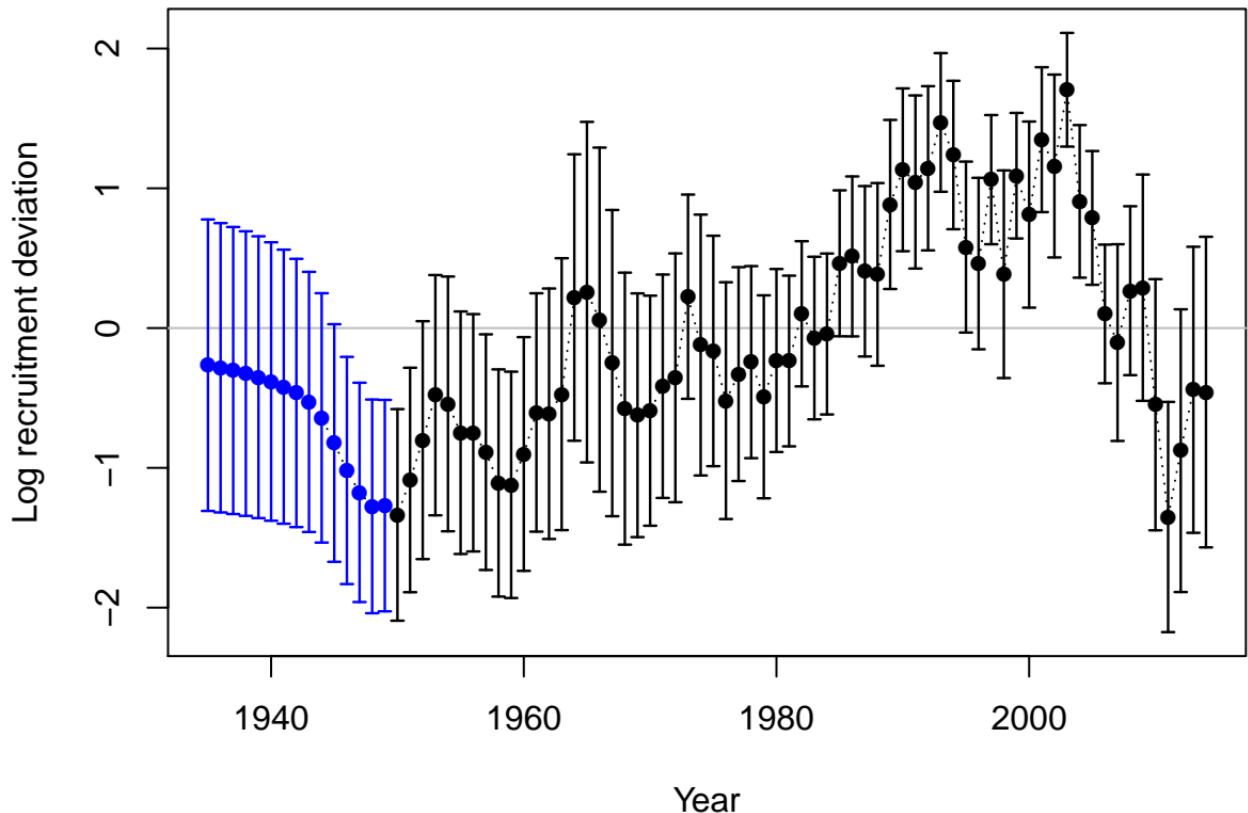
Age-0 recruits (1,000s) with ~95% asymptotic intervals



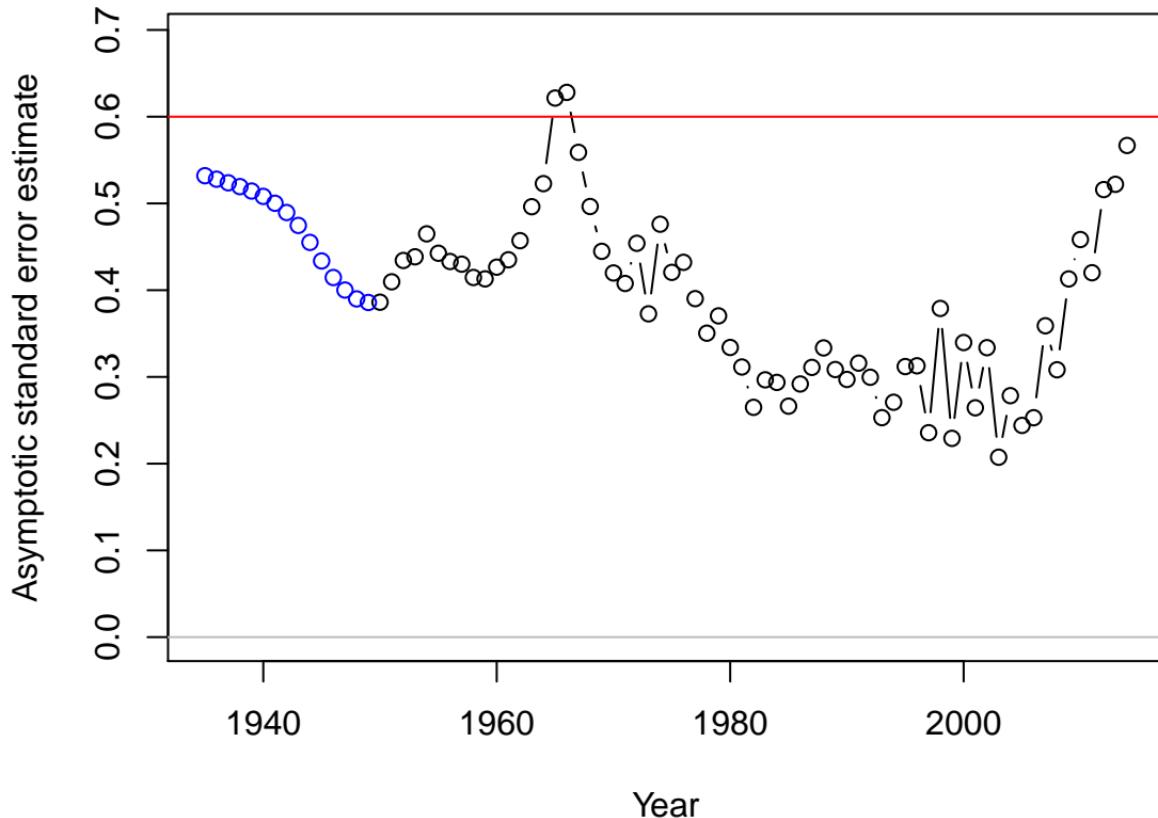
Summary Fishing Mortality

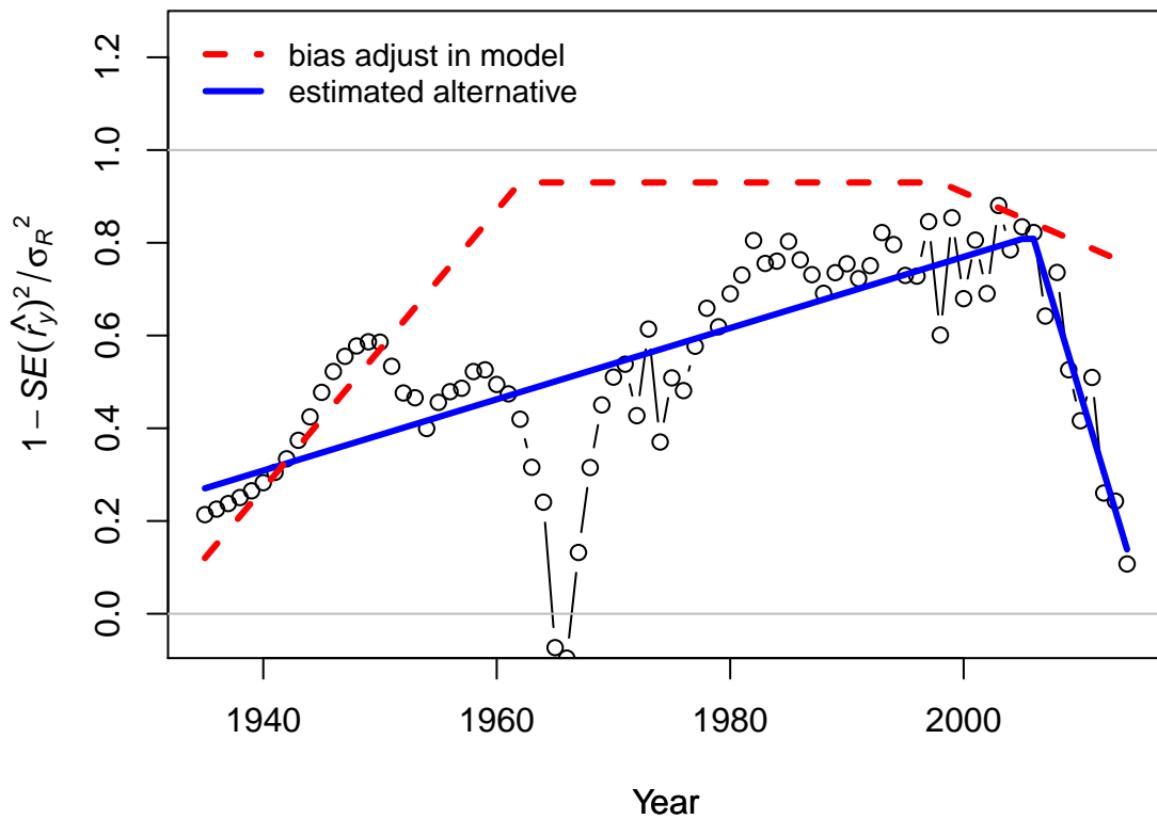


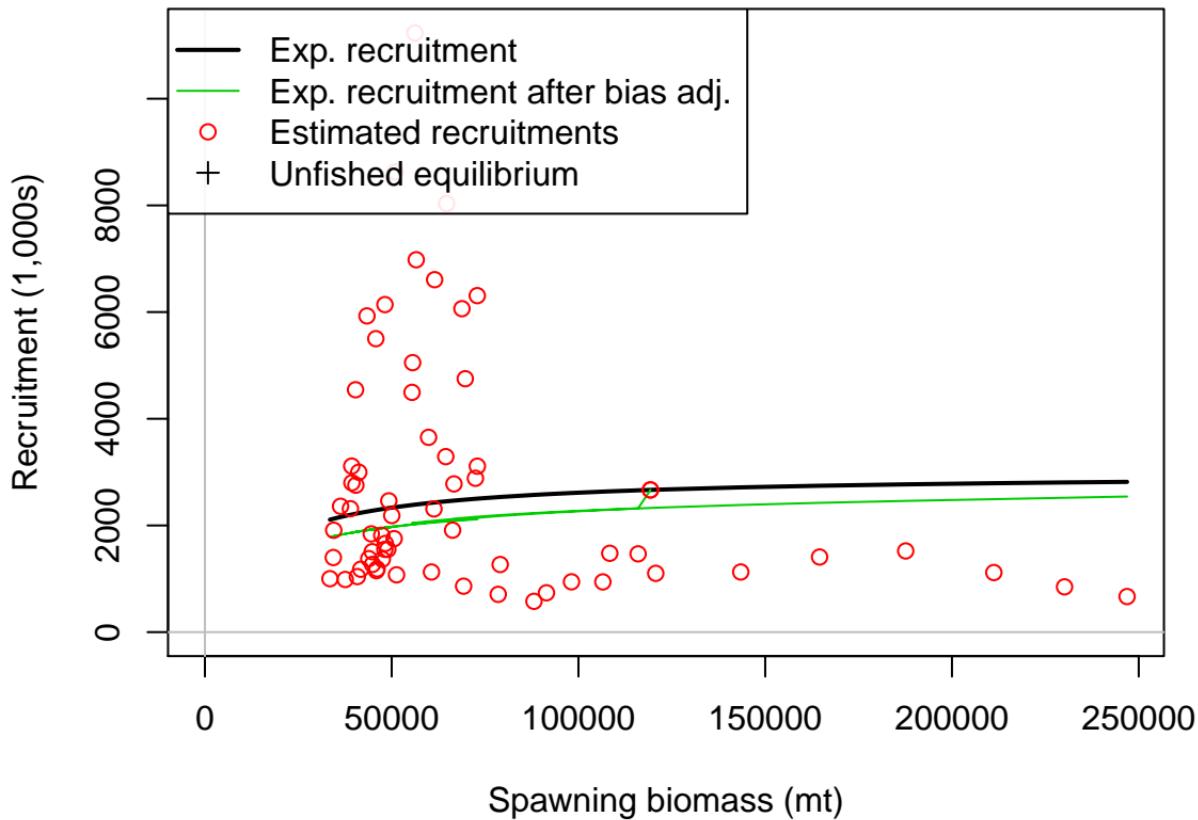


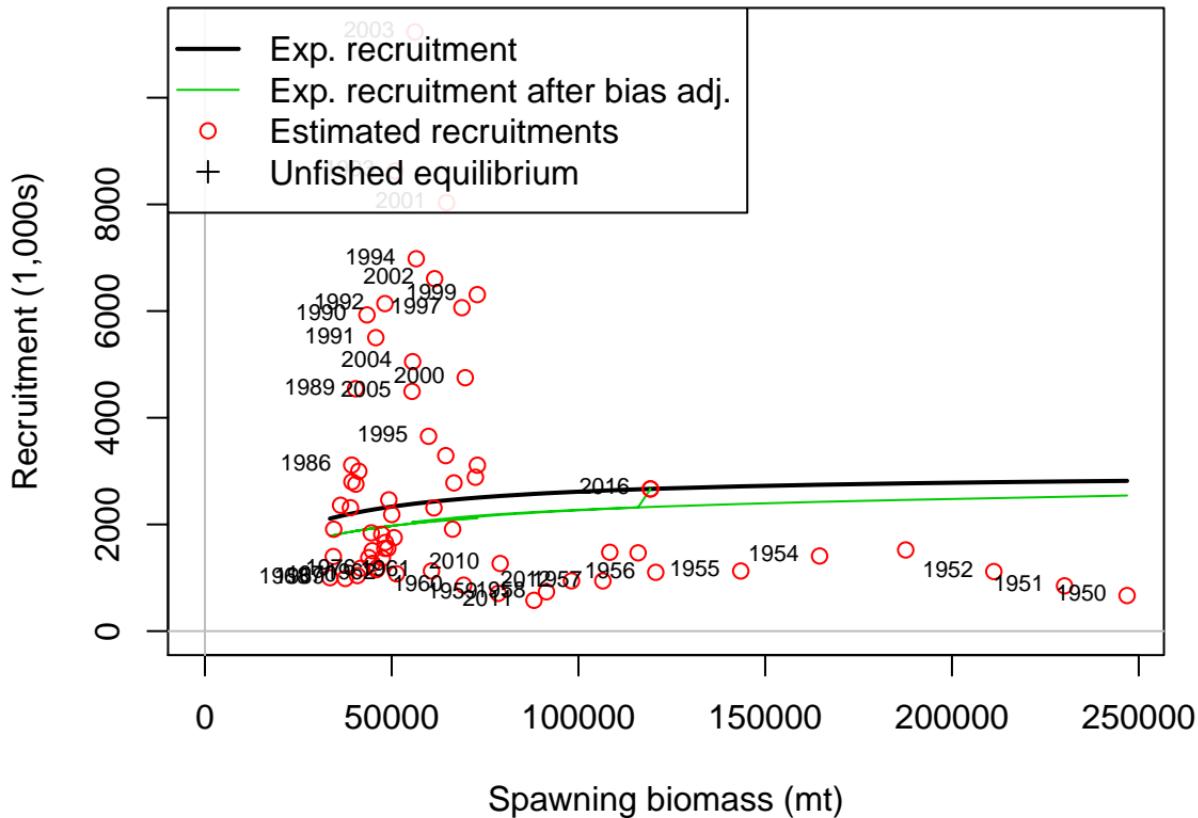


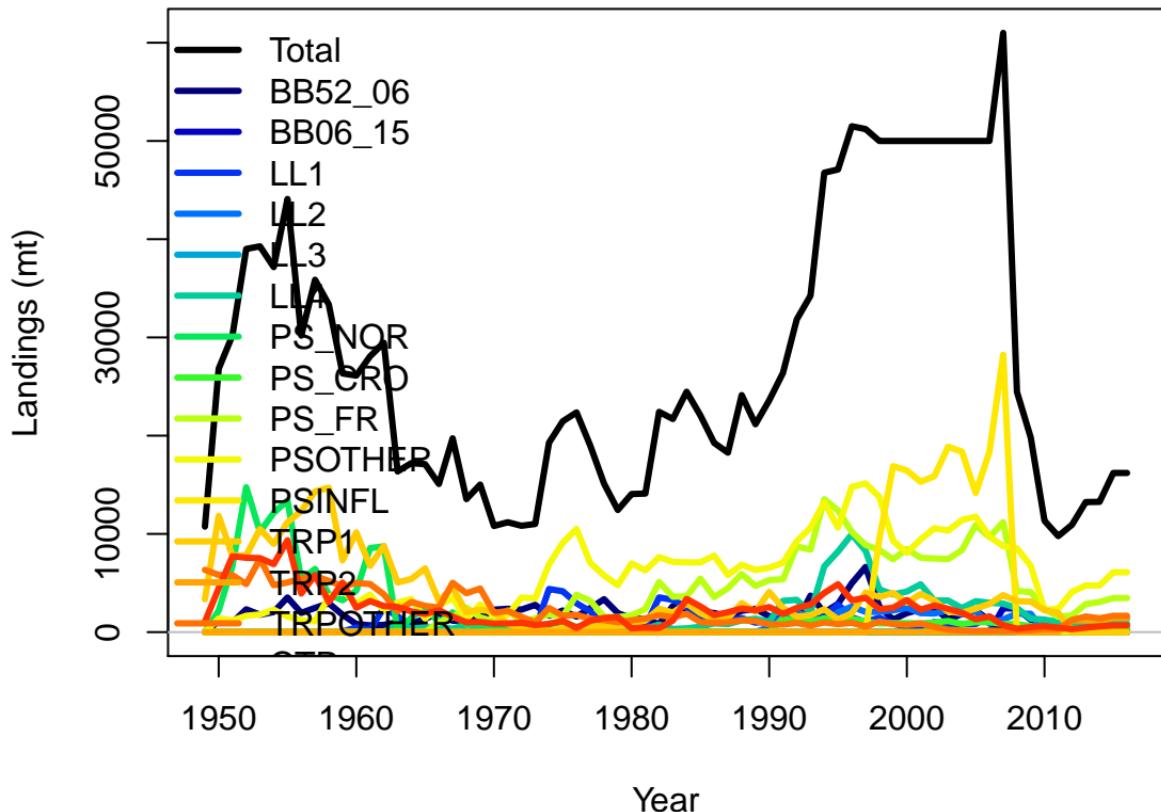
Recruitment deviation variance

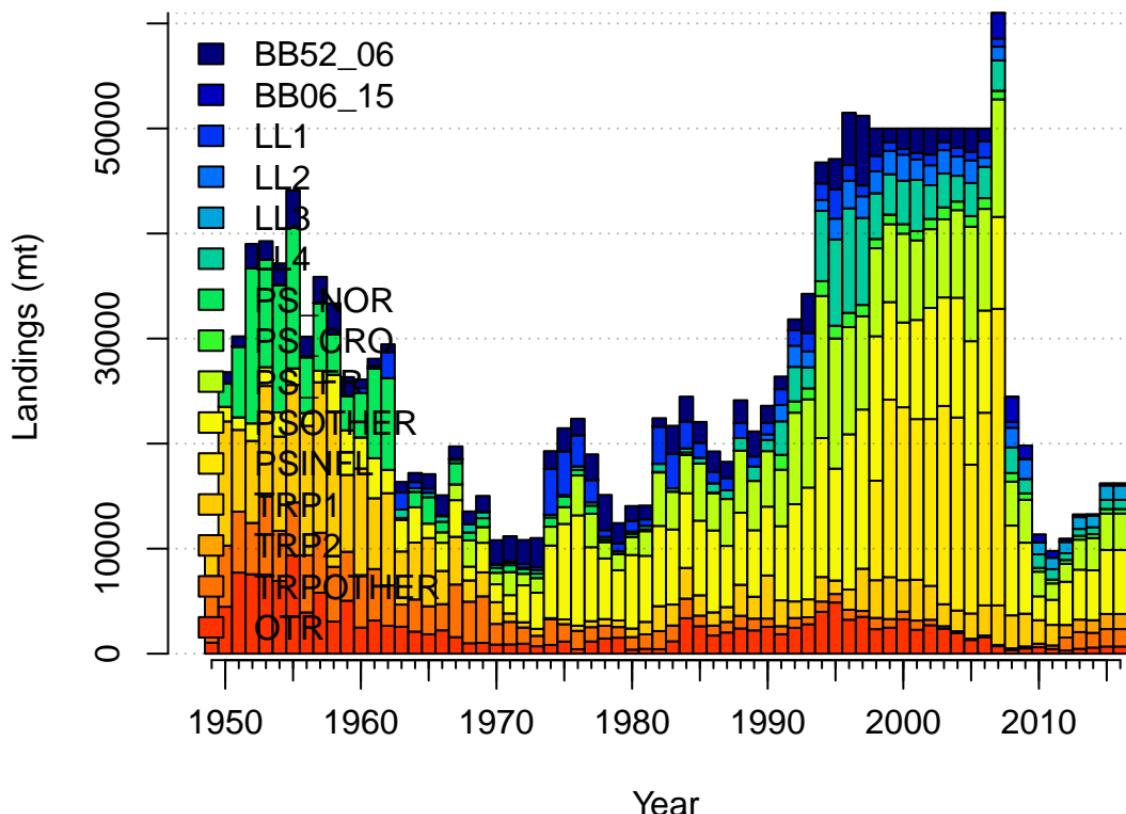


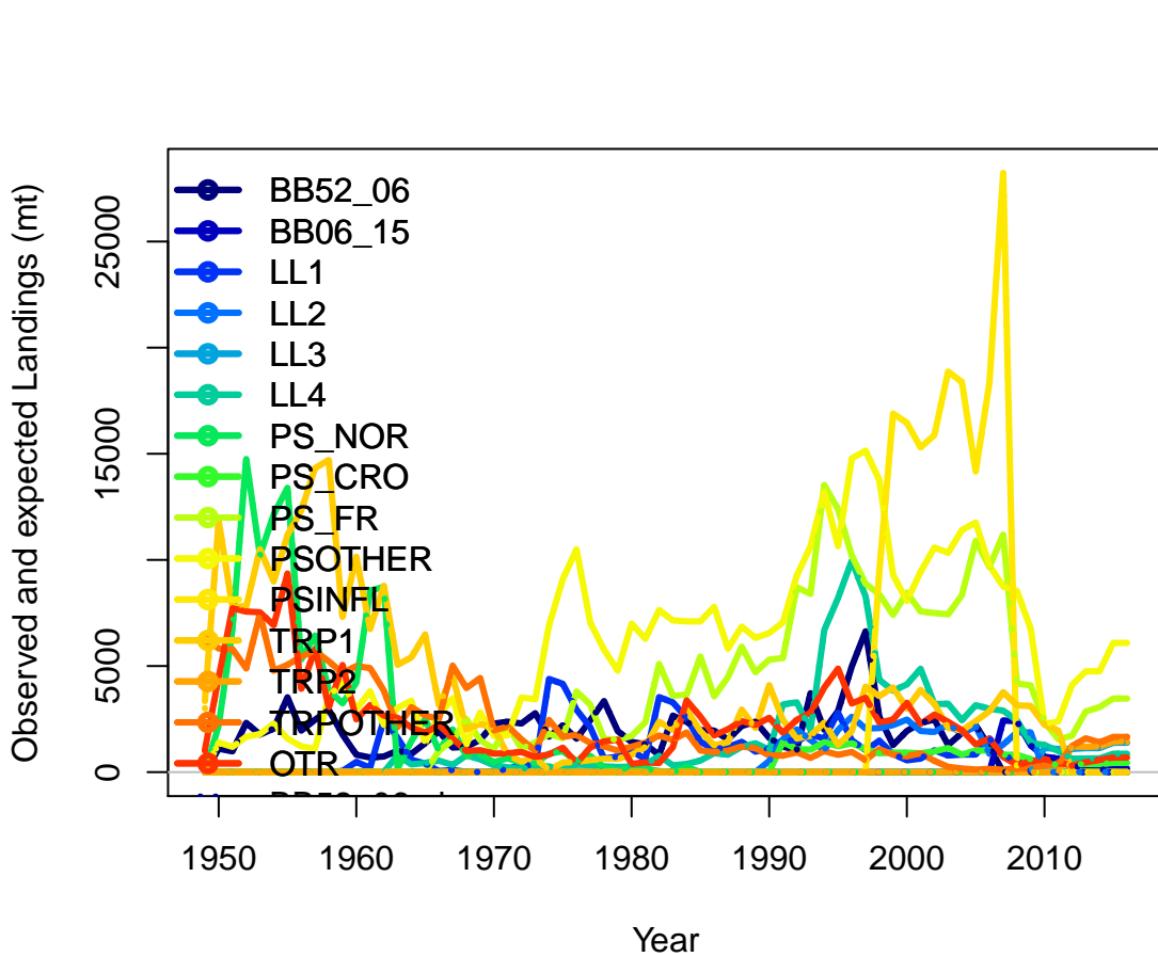




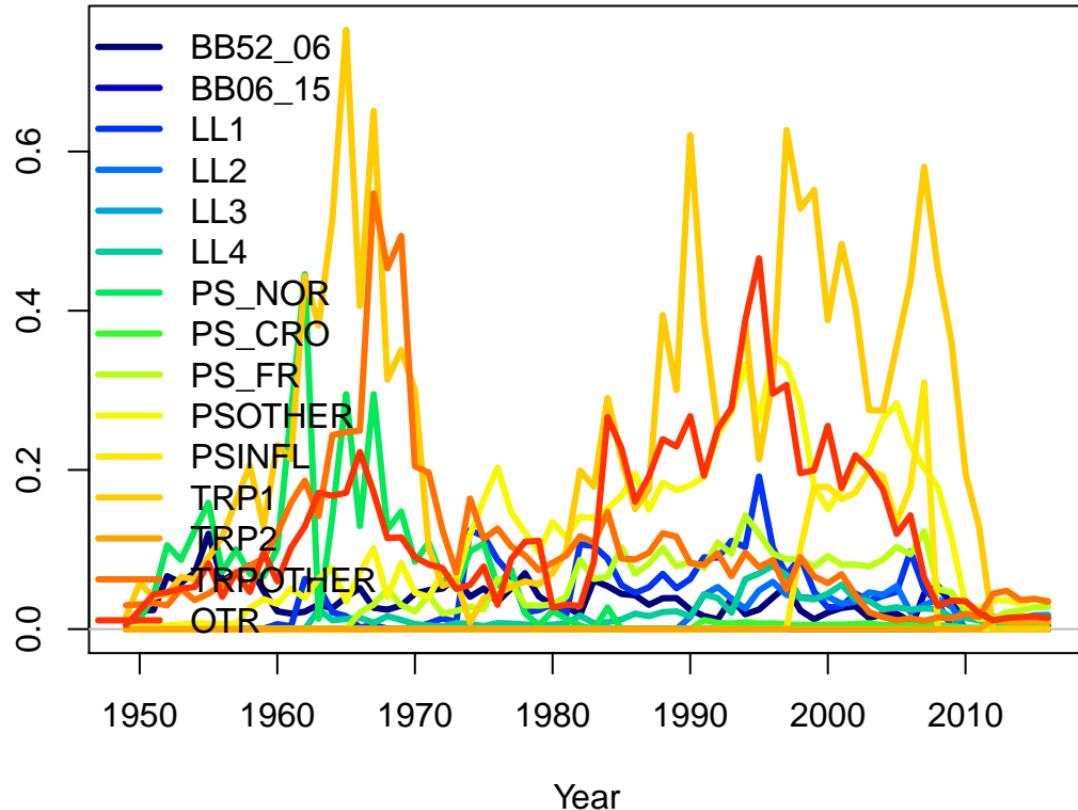


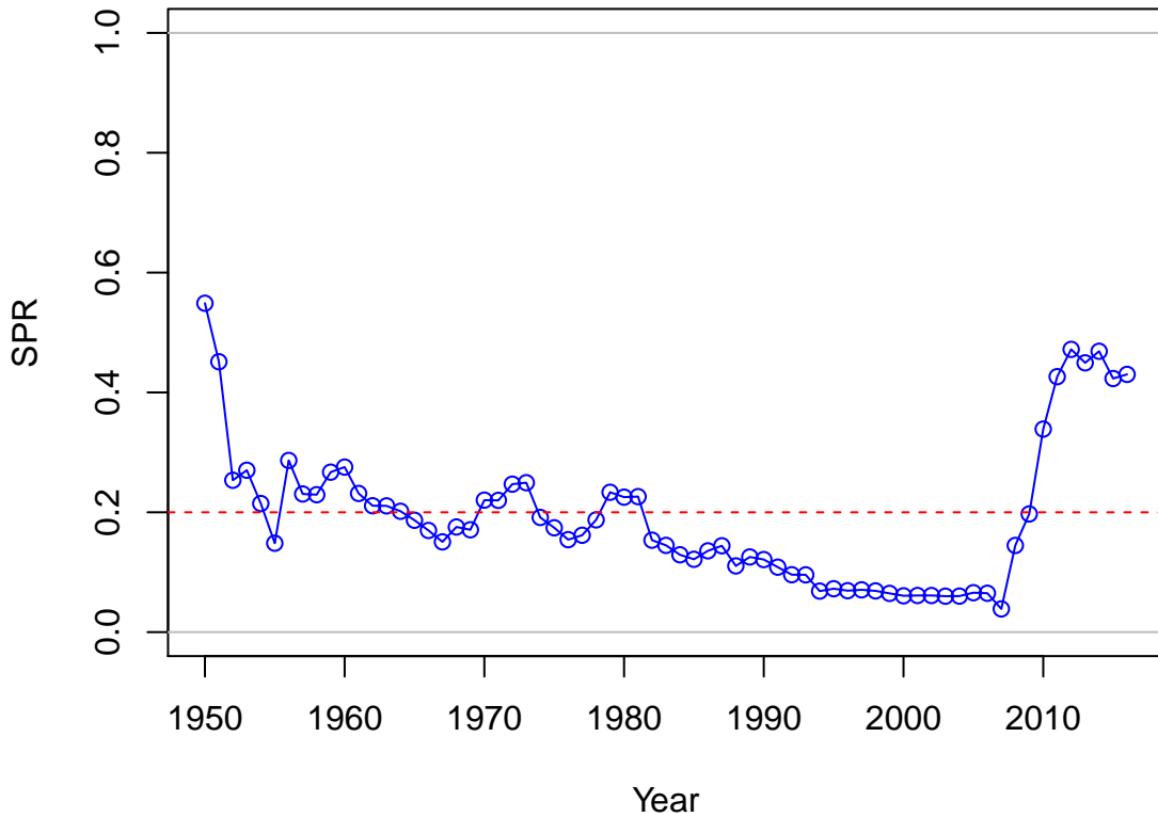


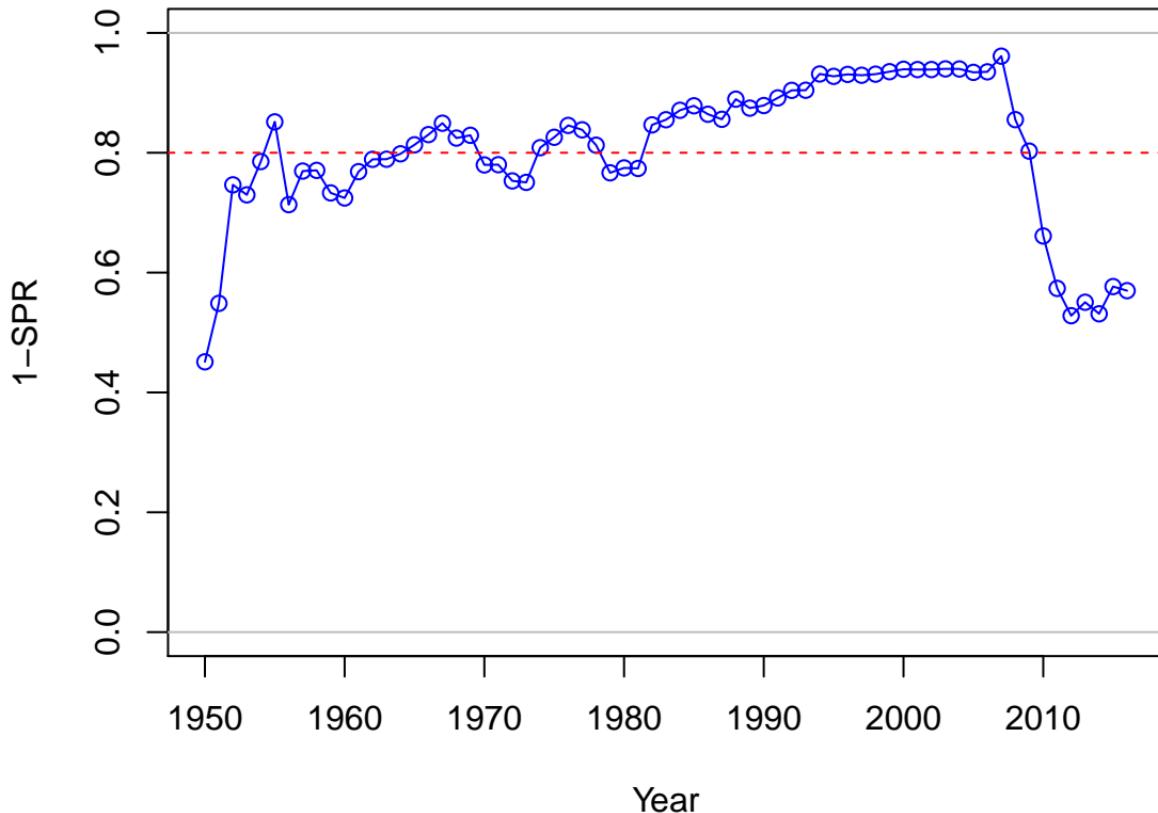


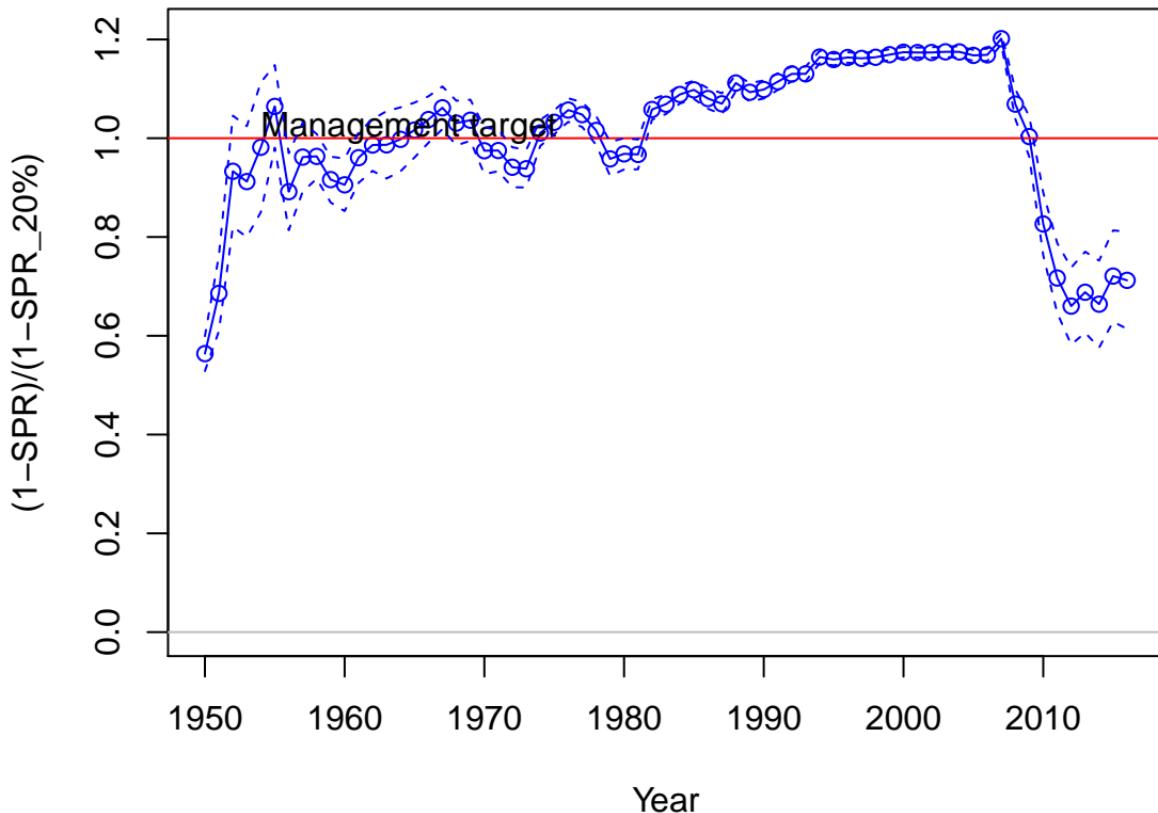


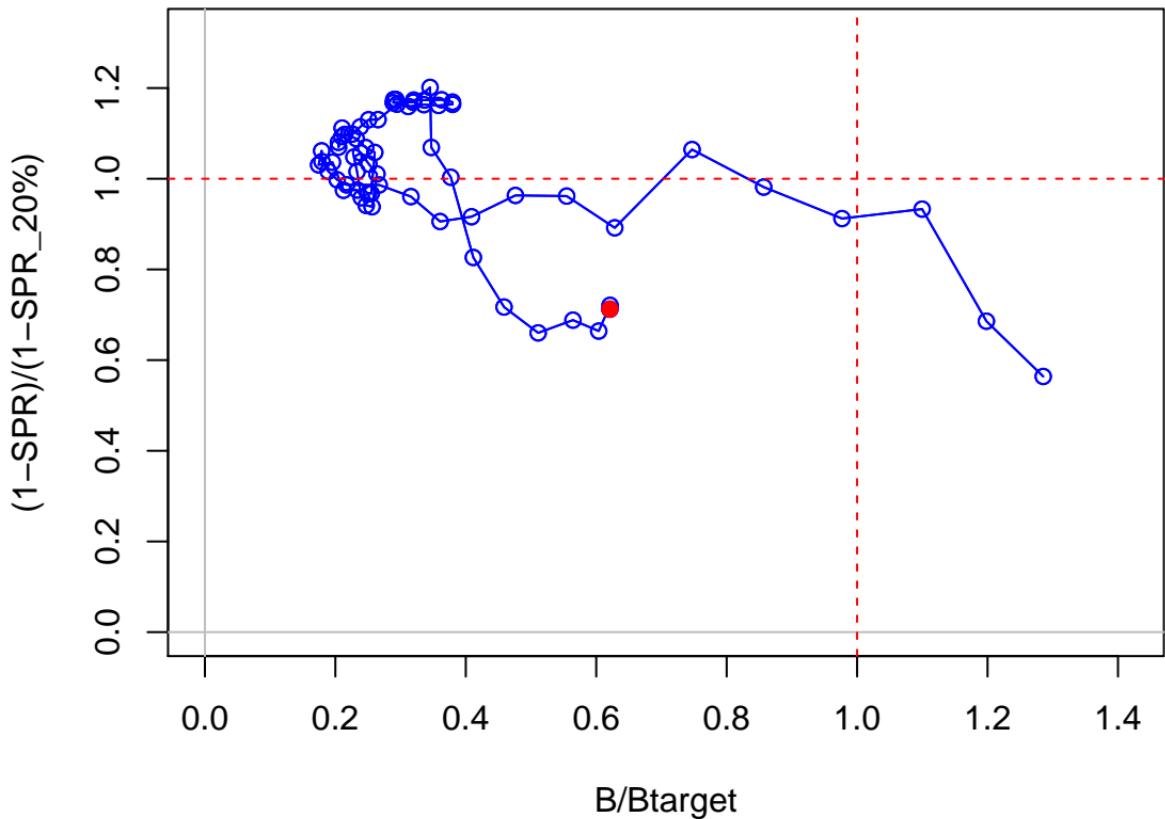
Continuous F



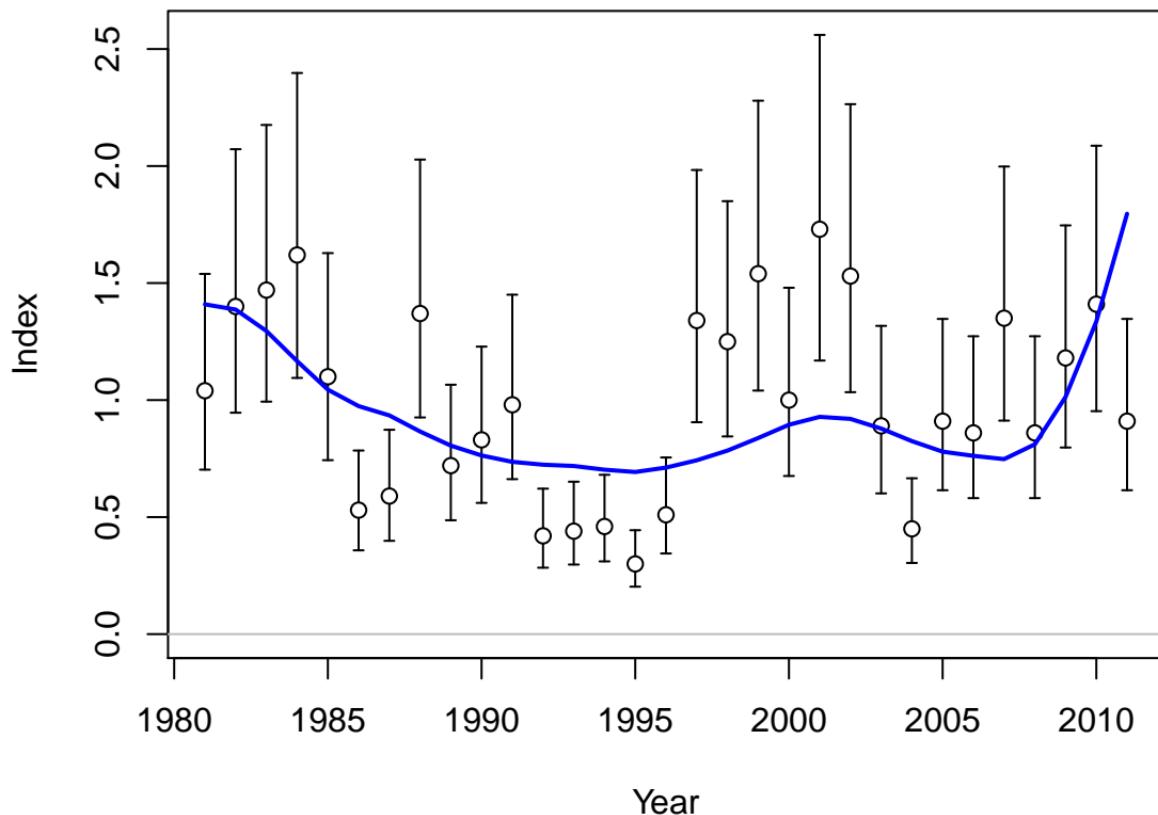




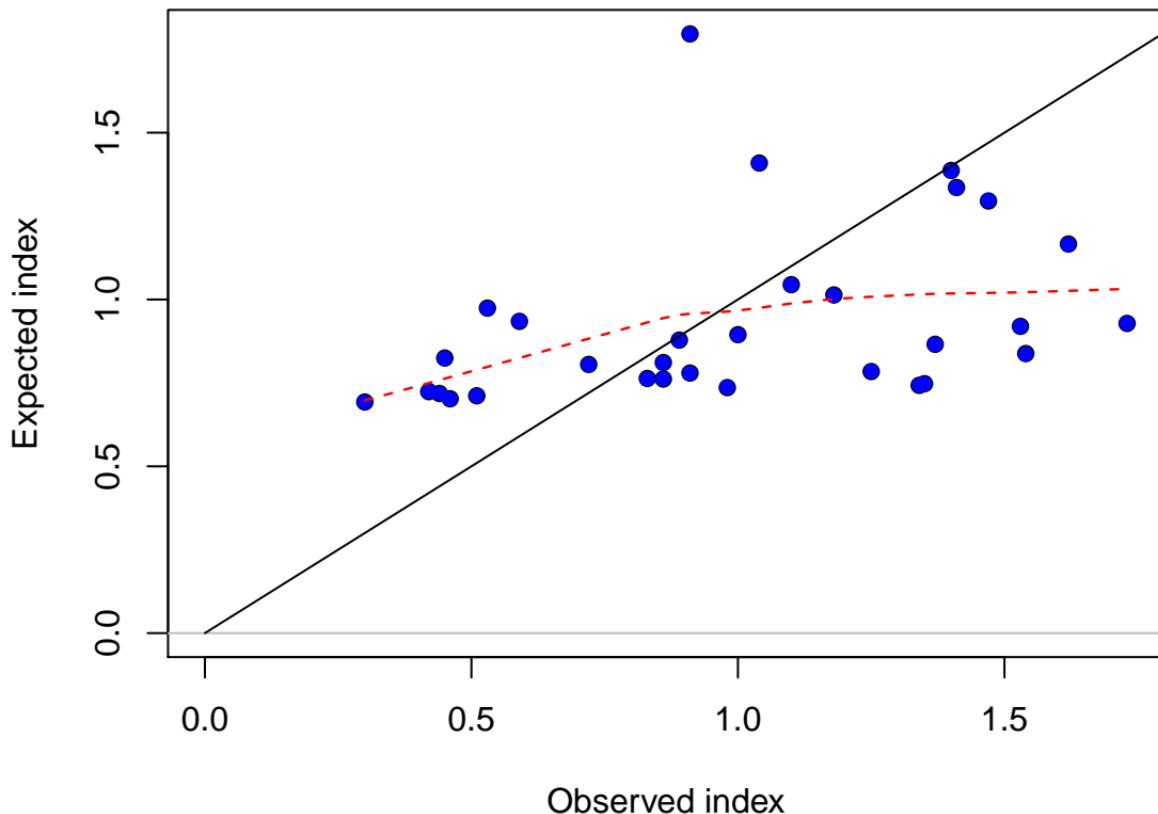




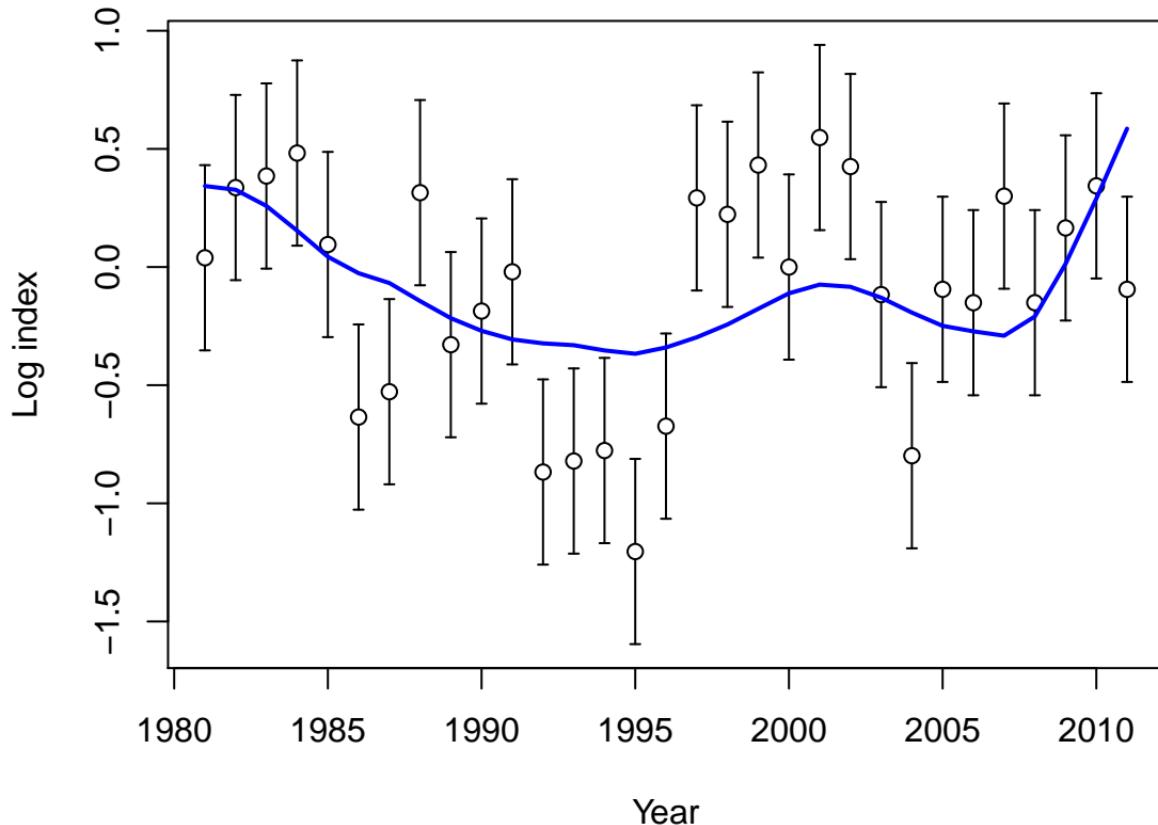
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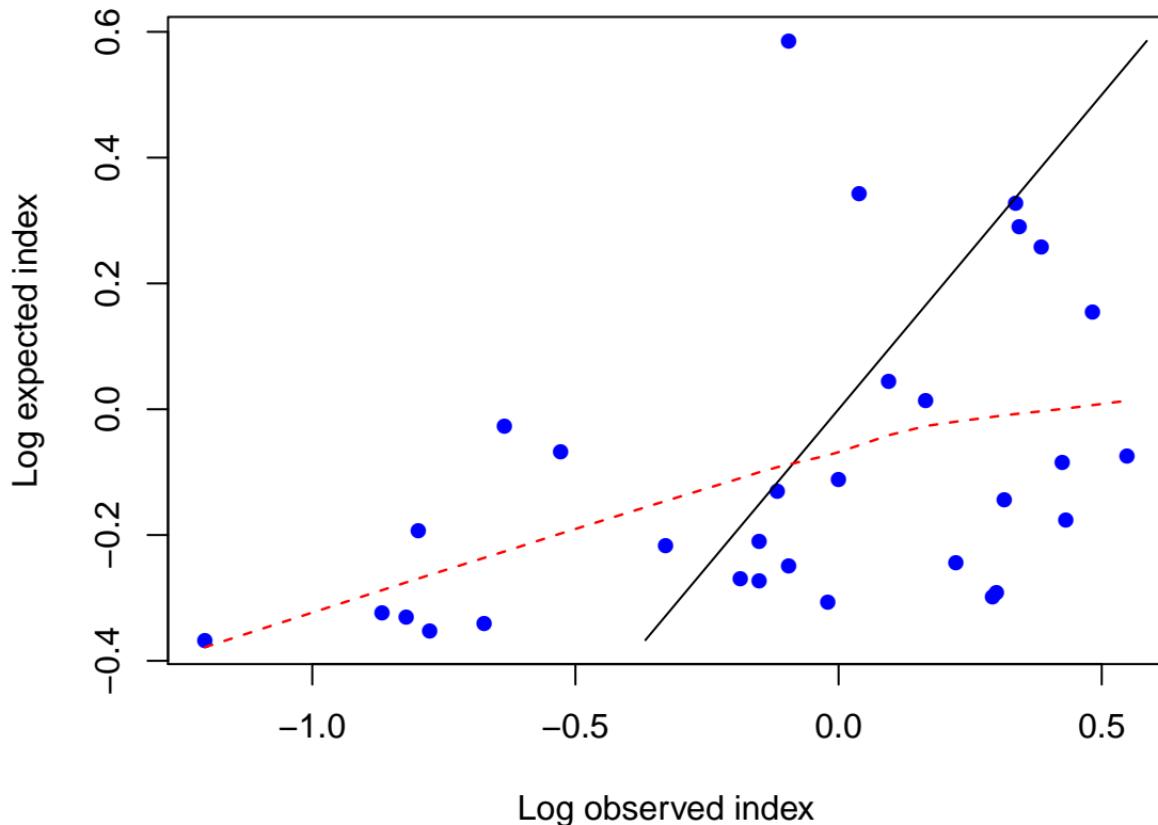
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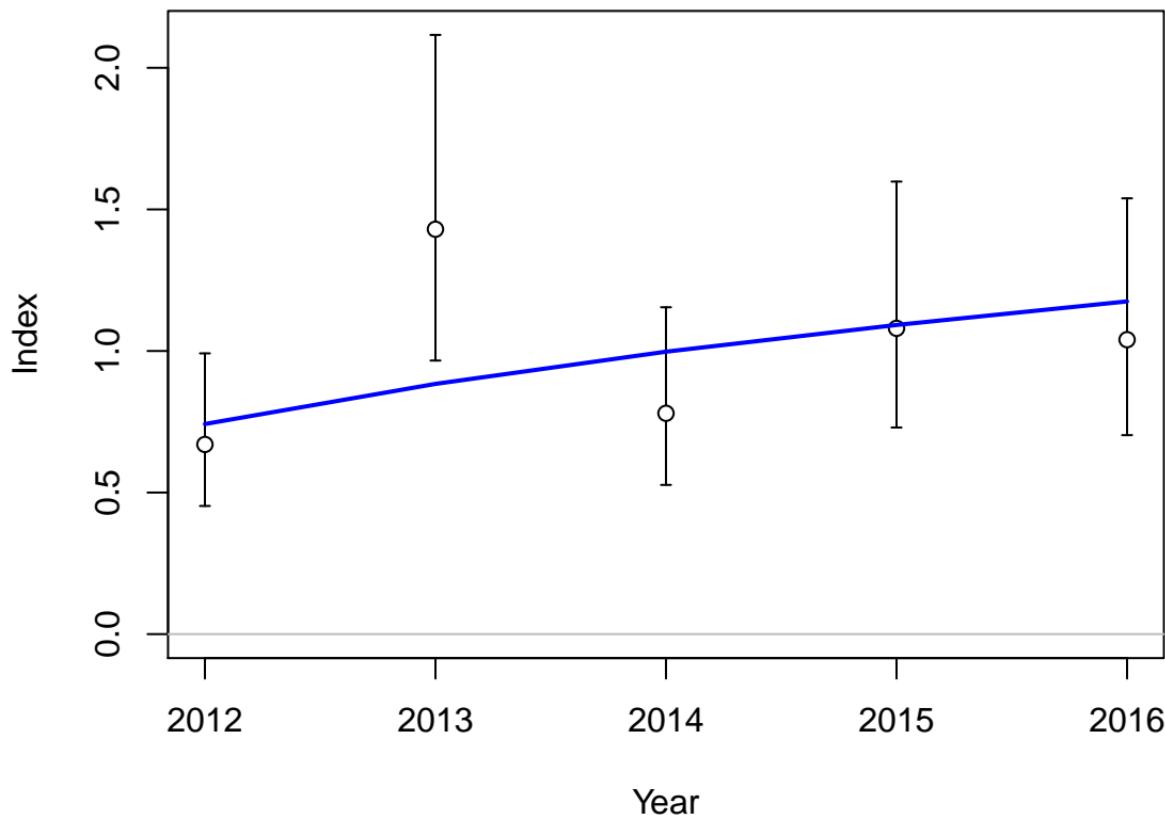
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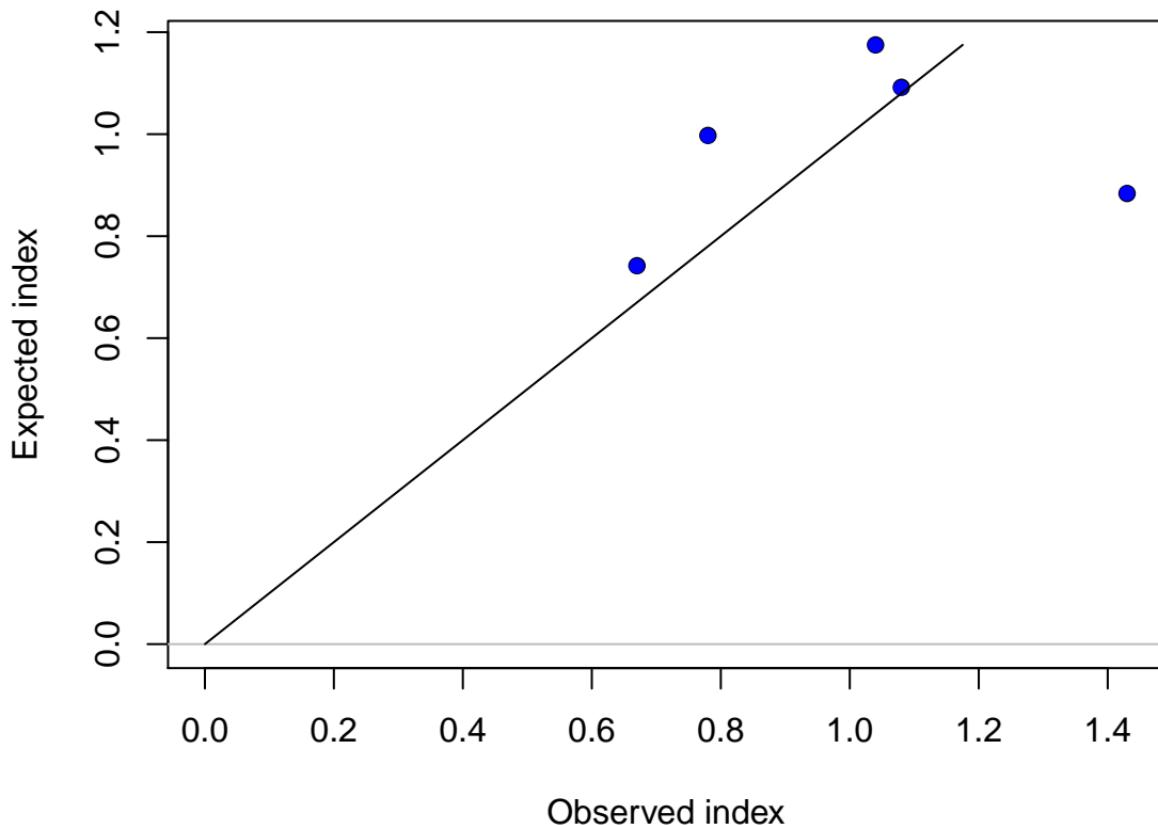
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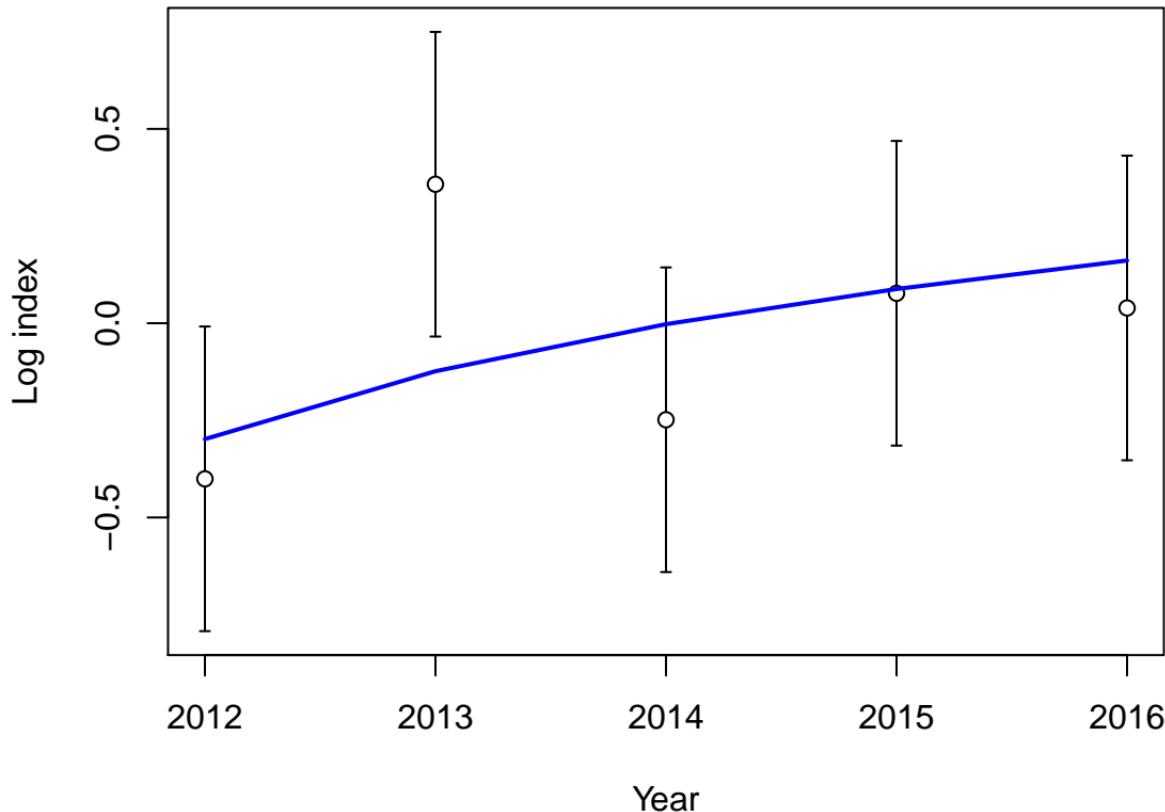
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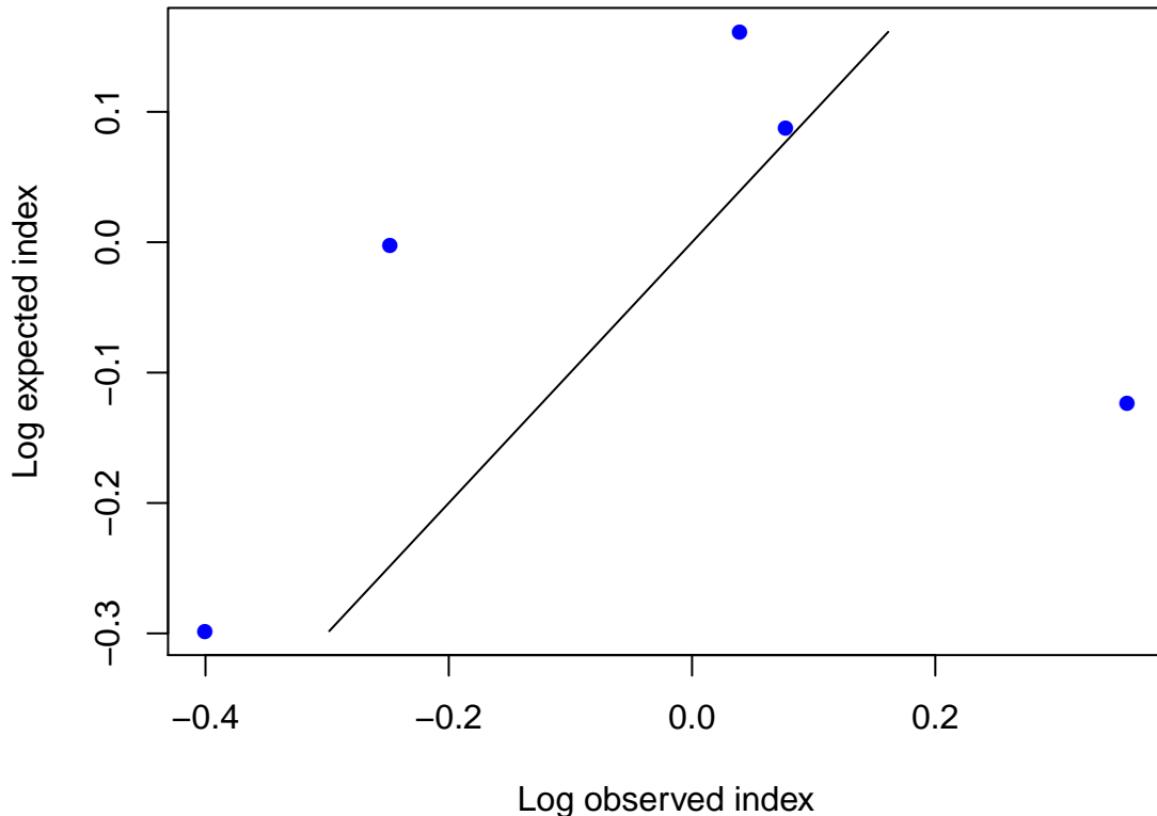
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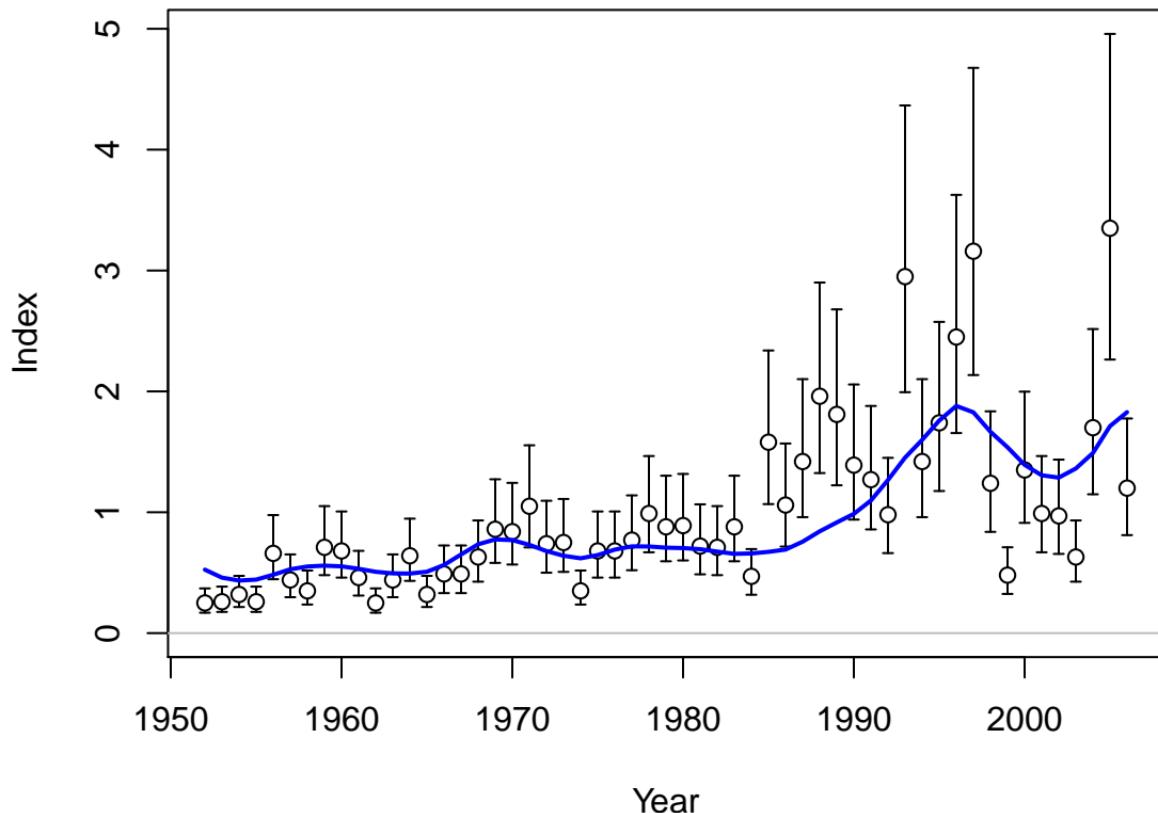
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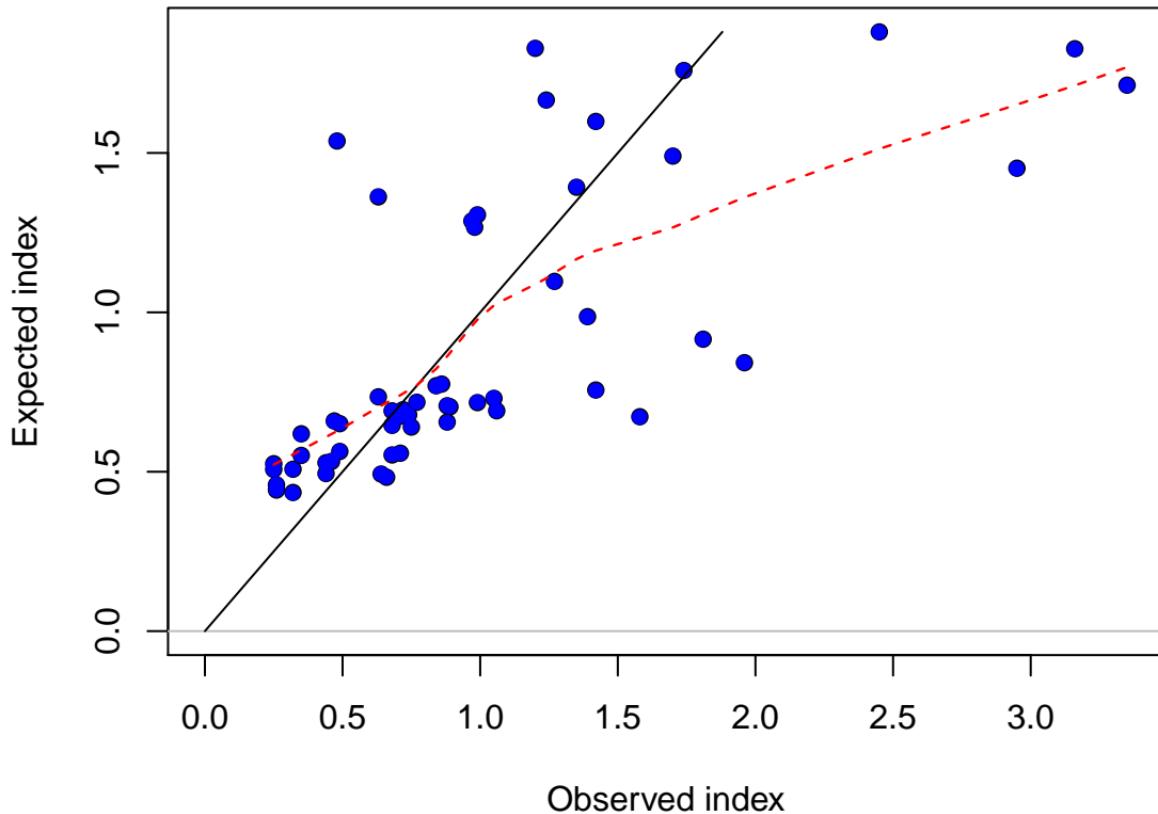
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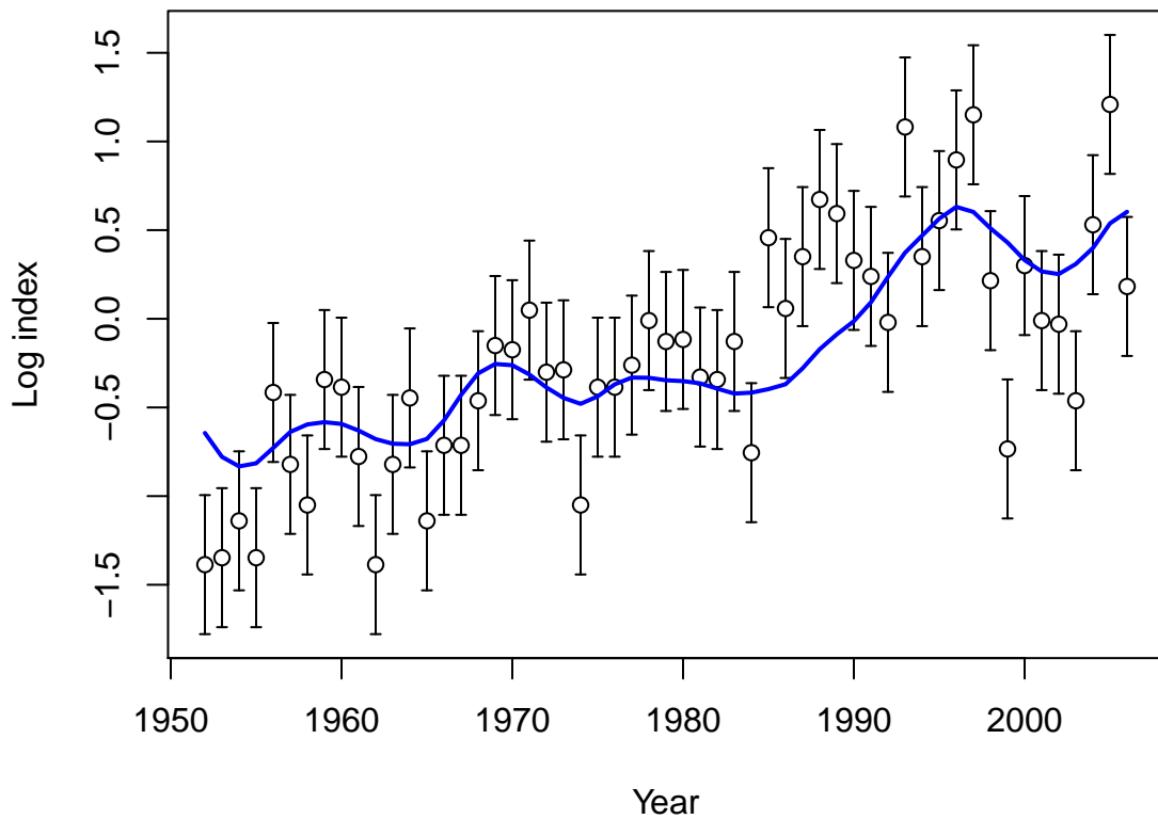
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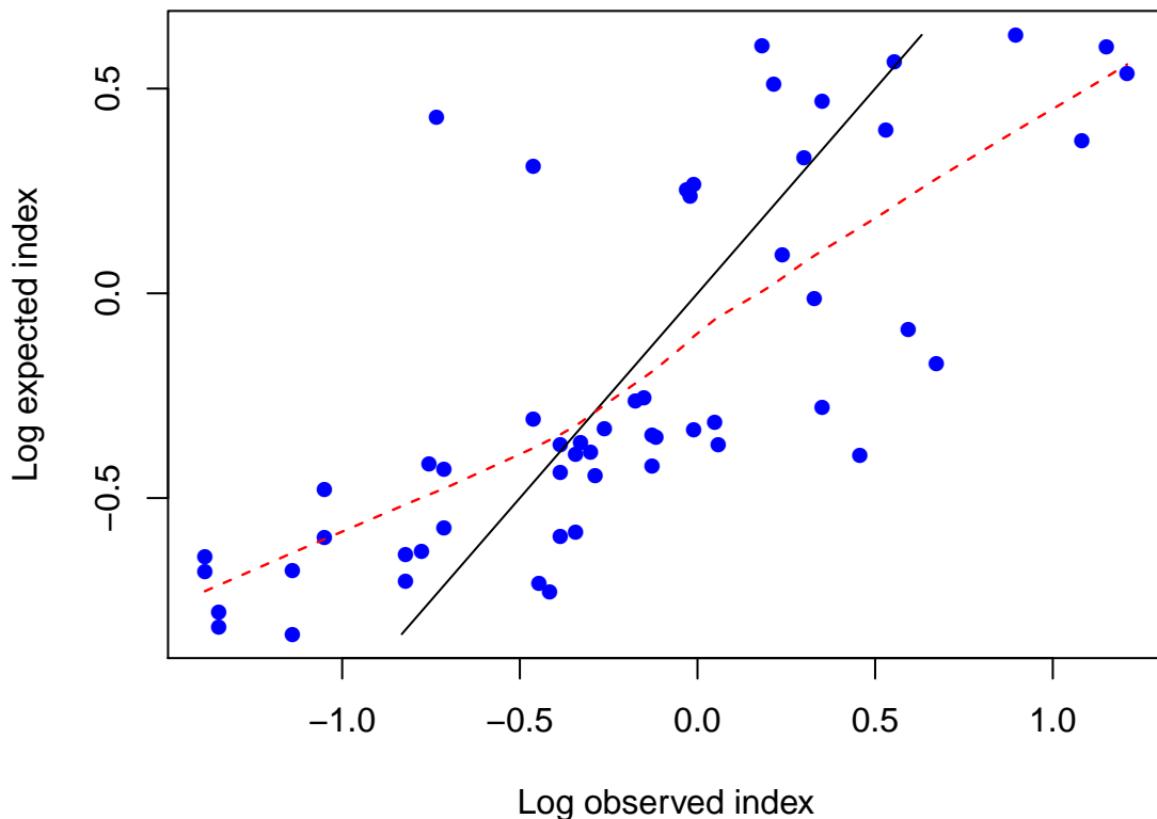
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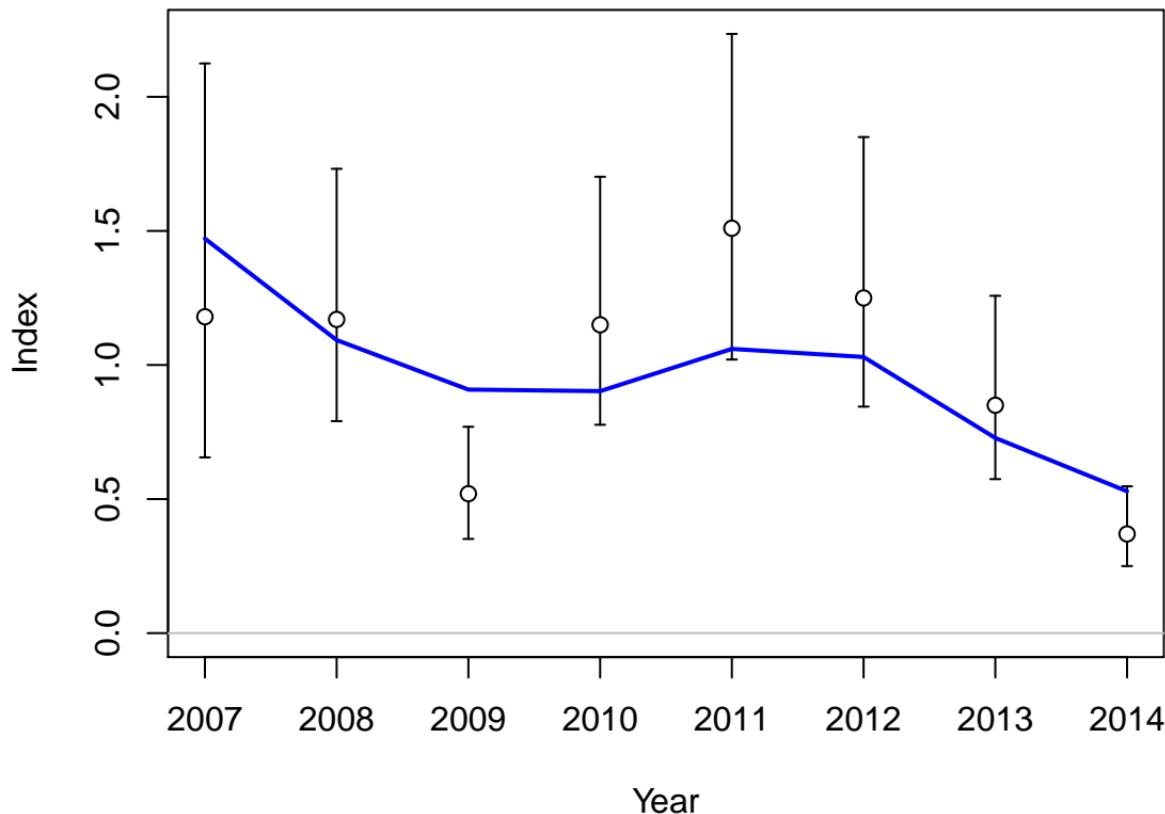
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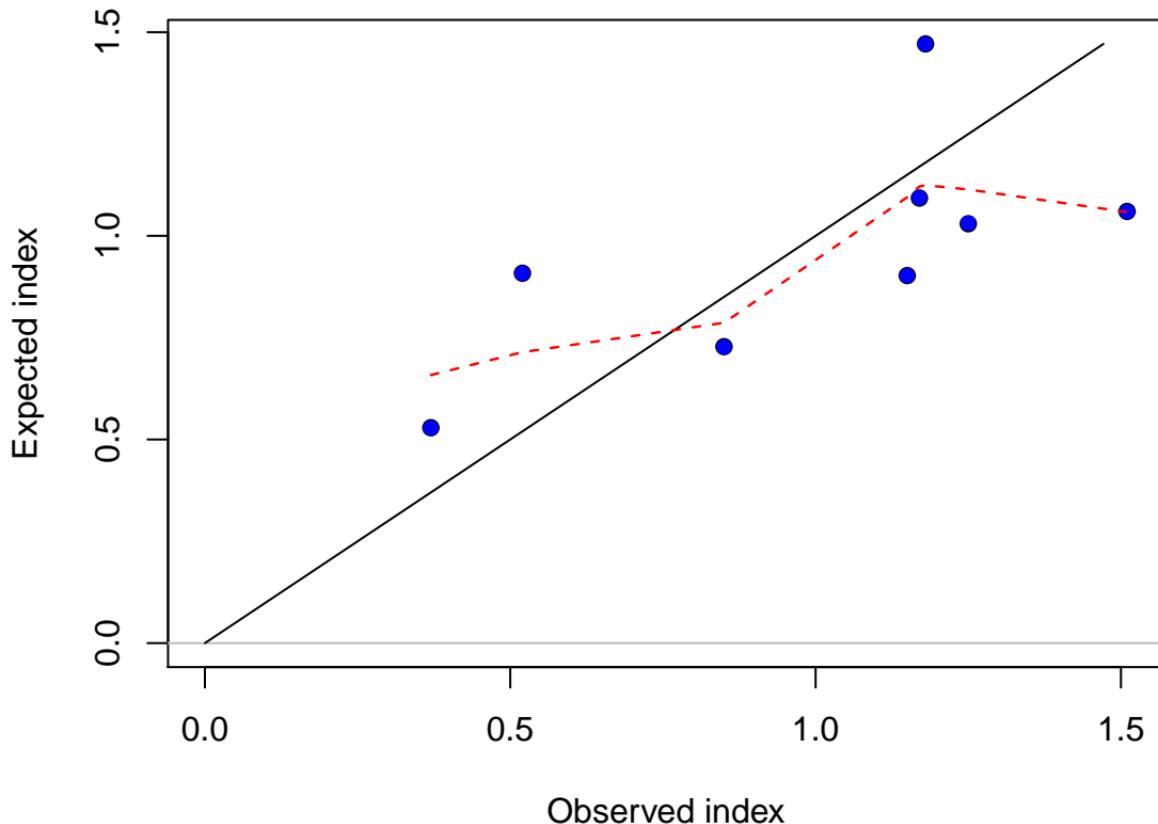
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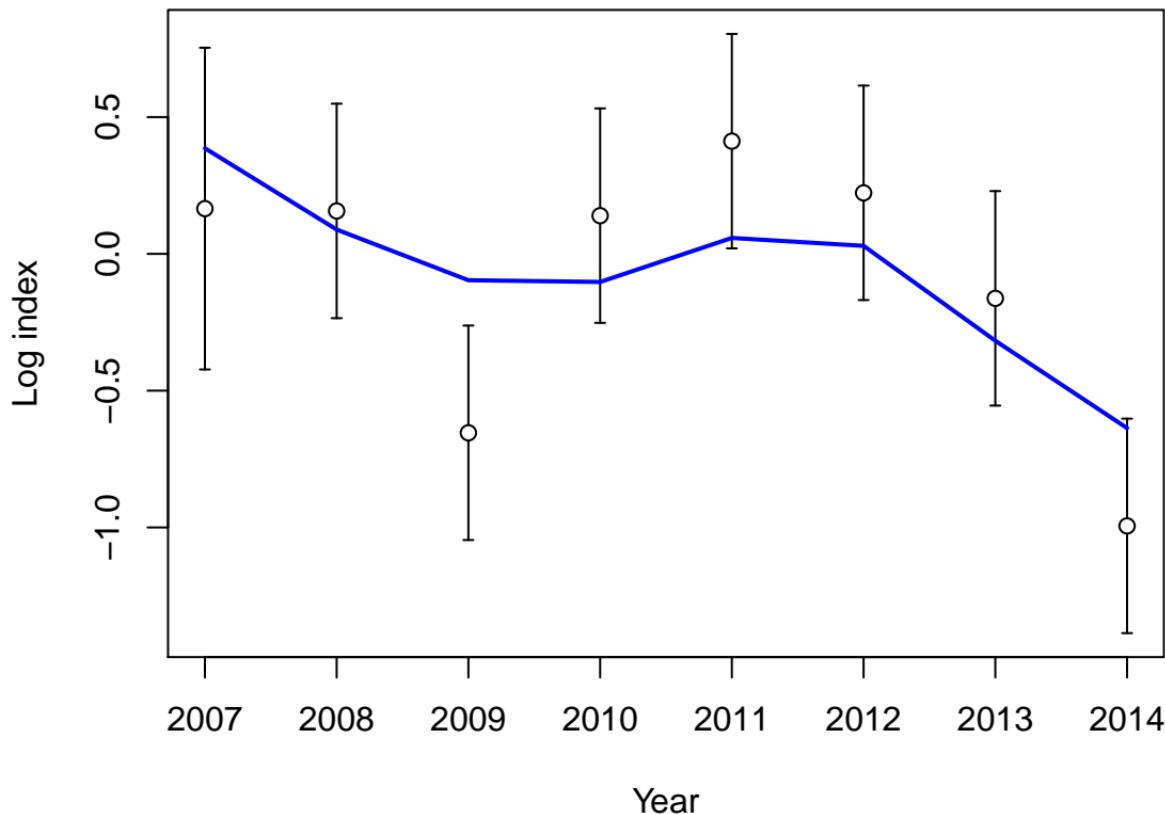
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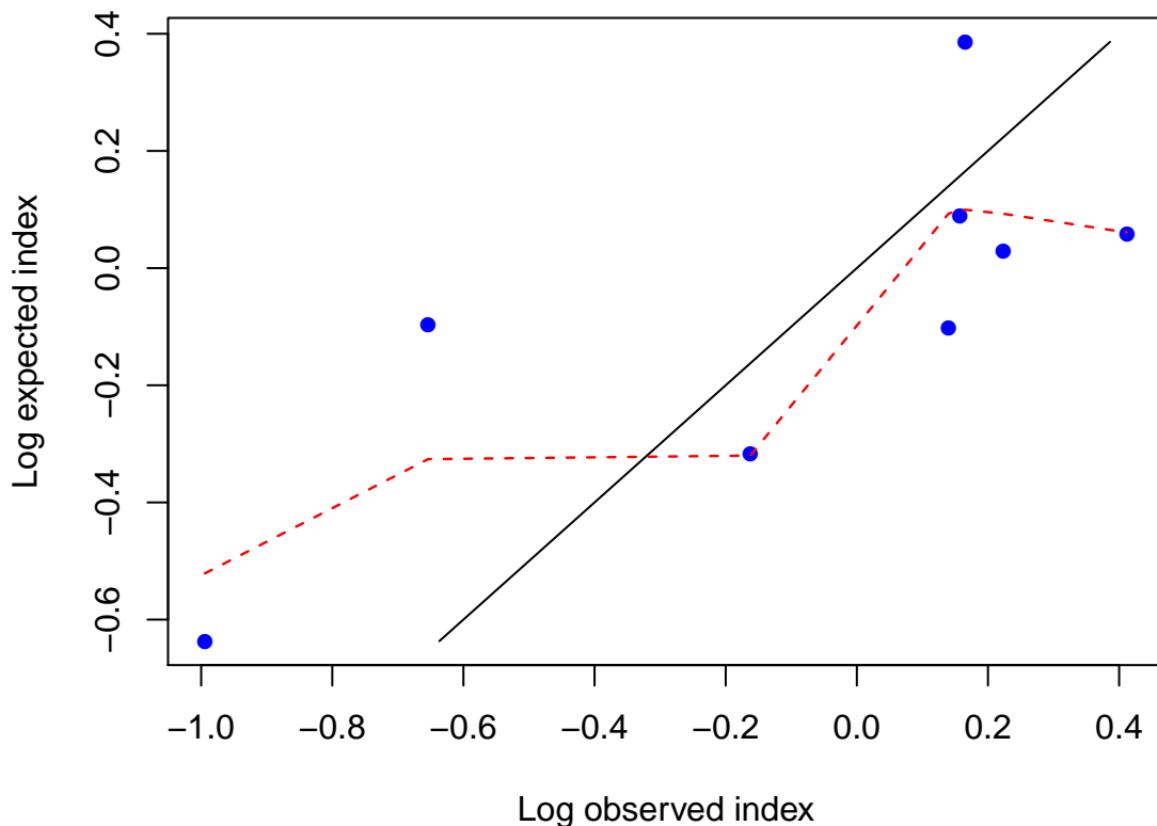
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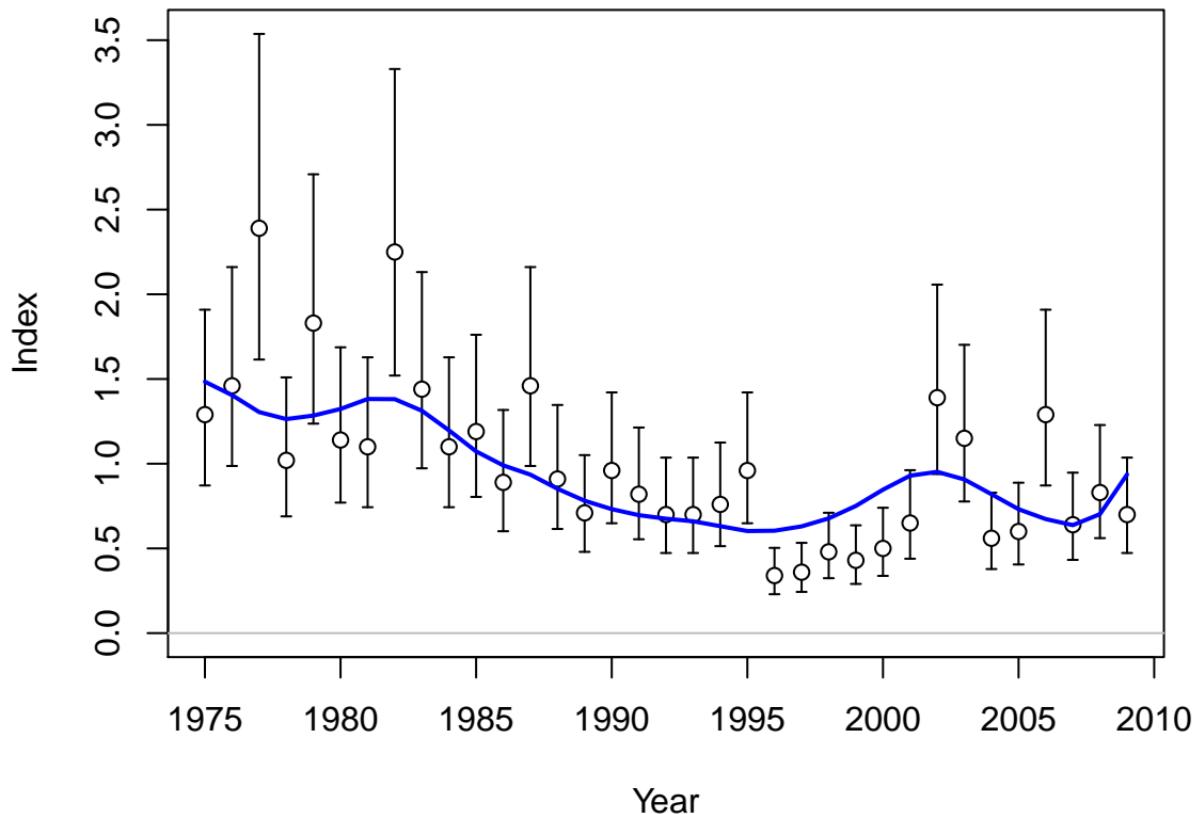
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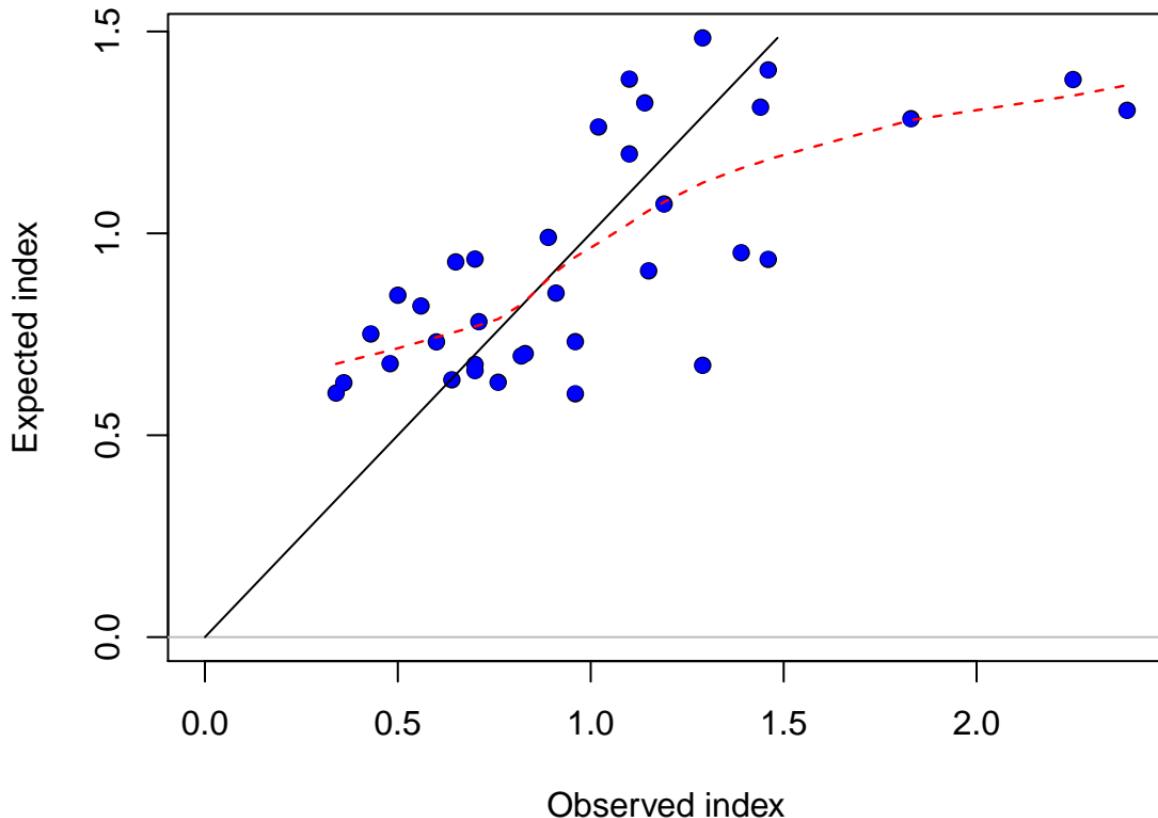
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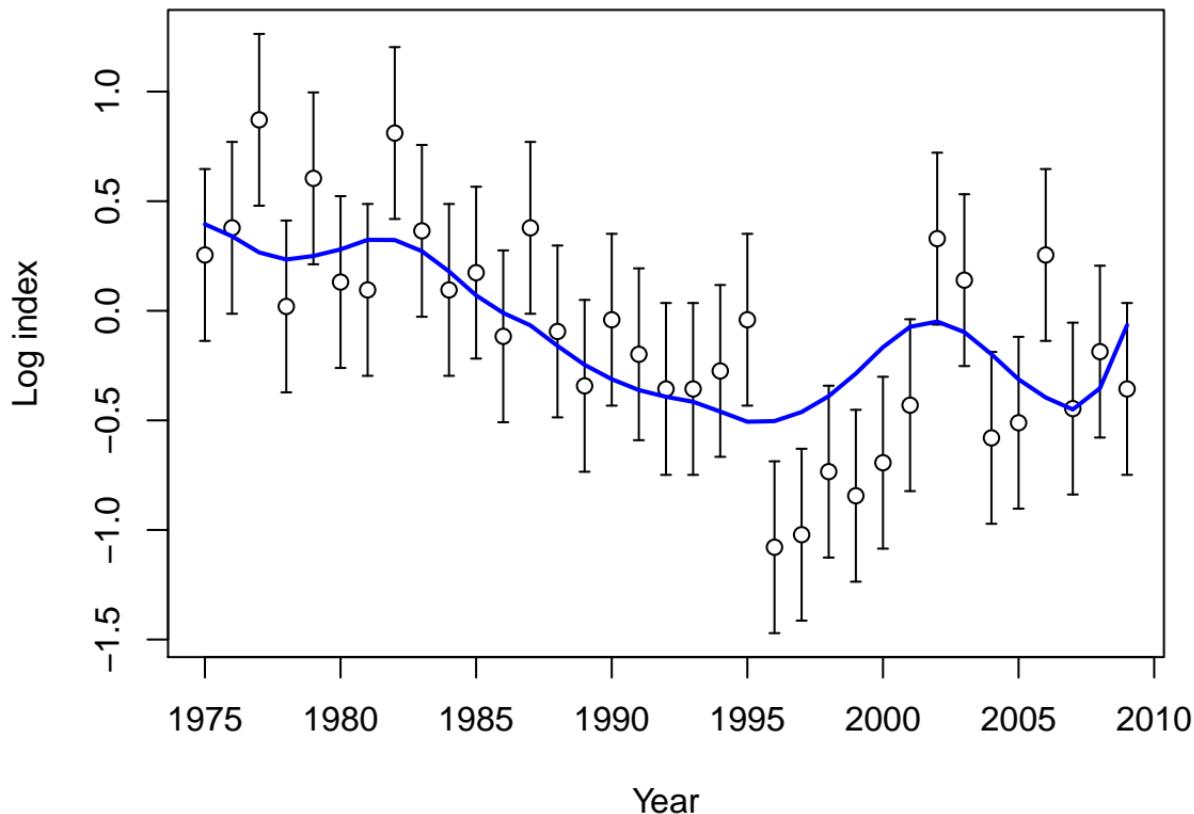
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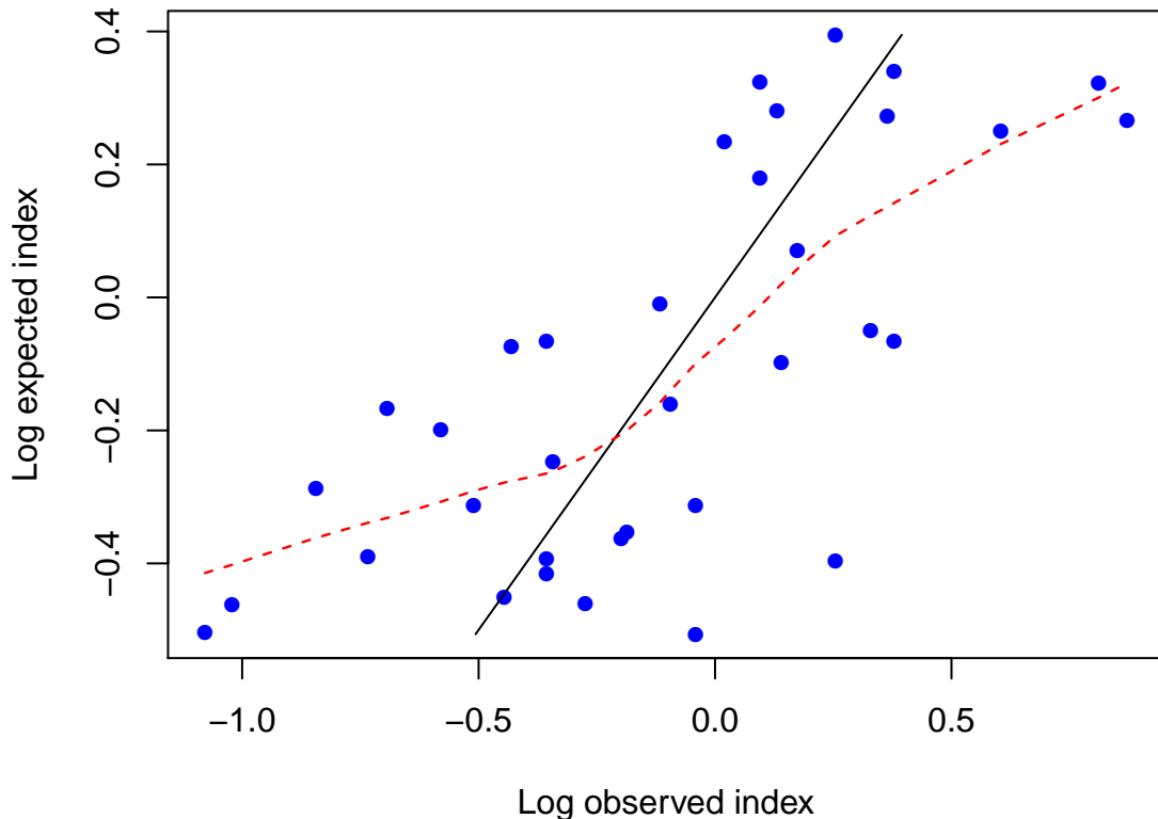
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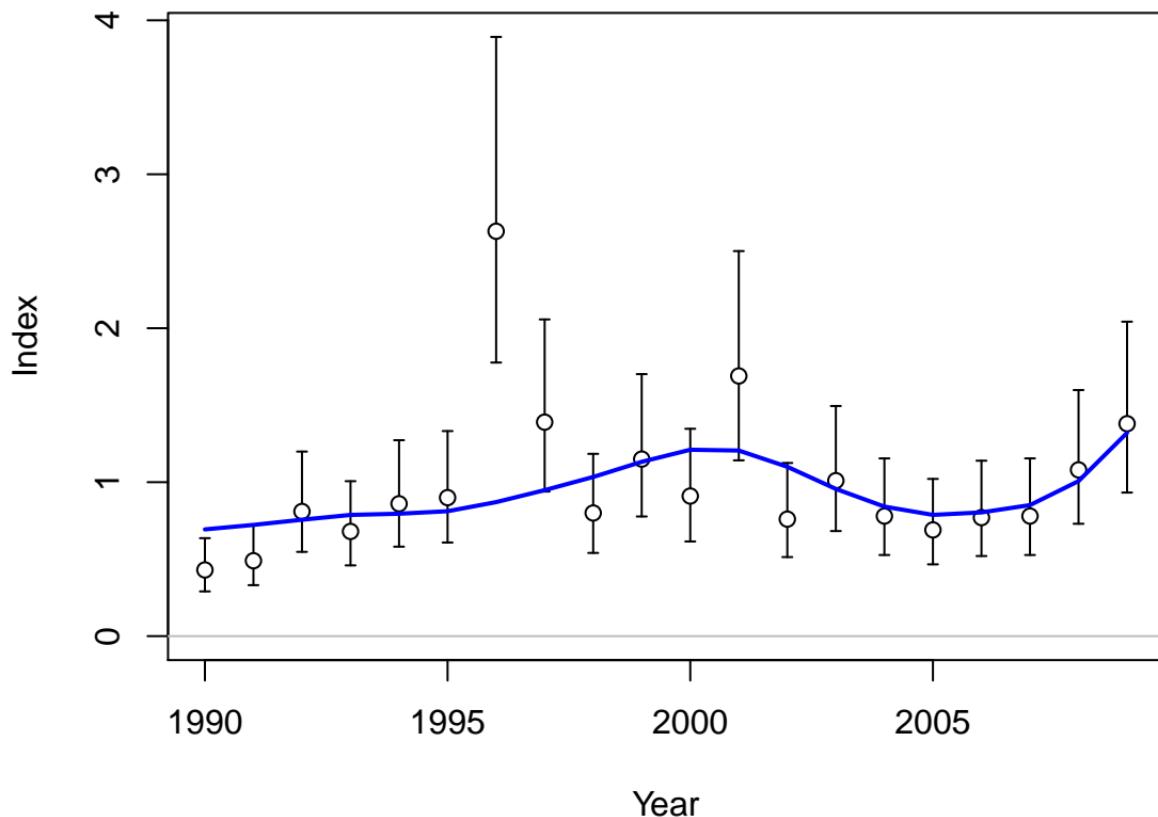
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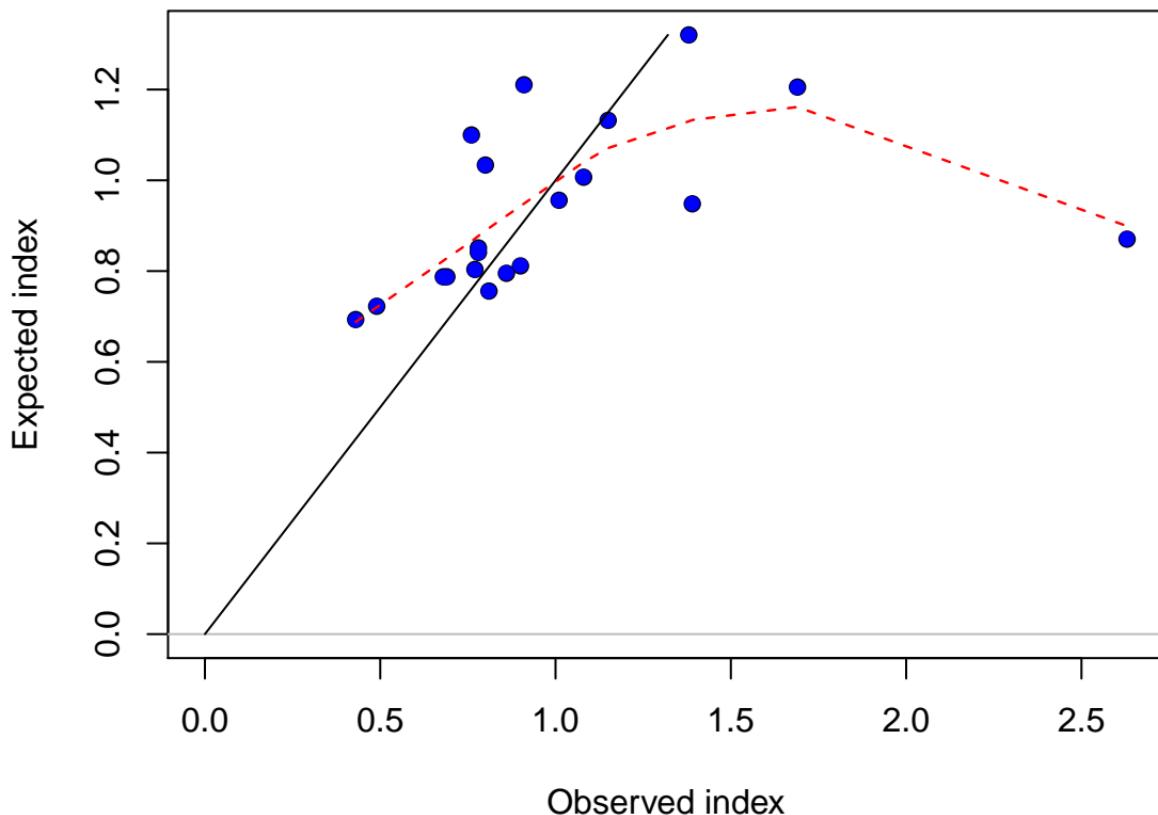
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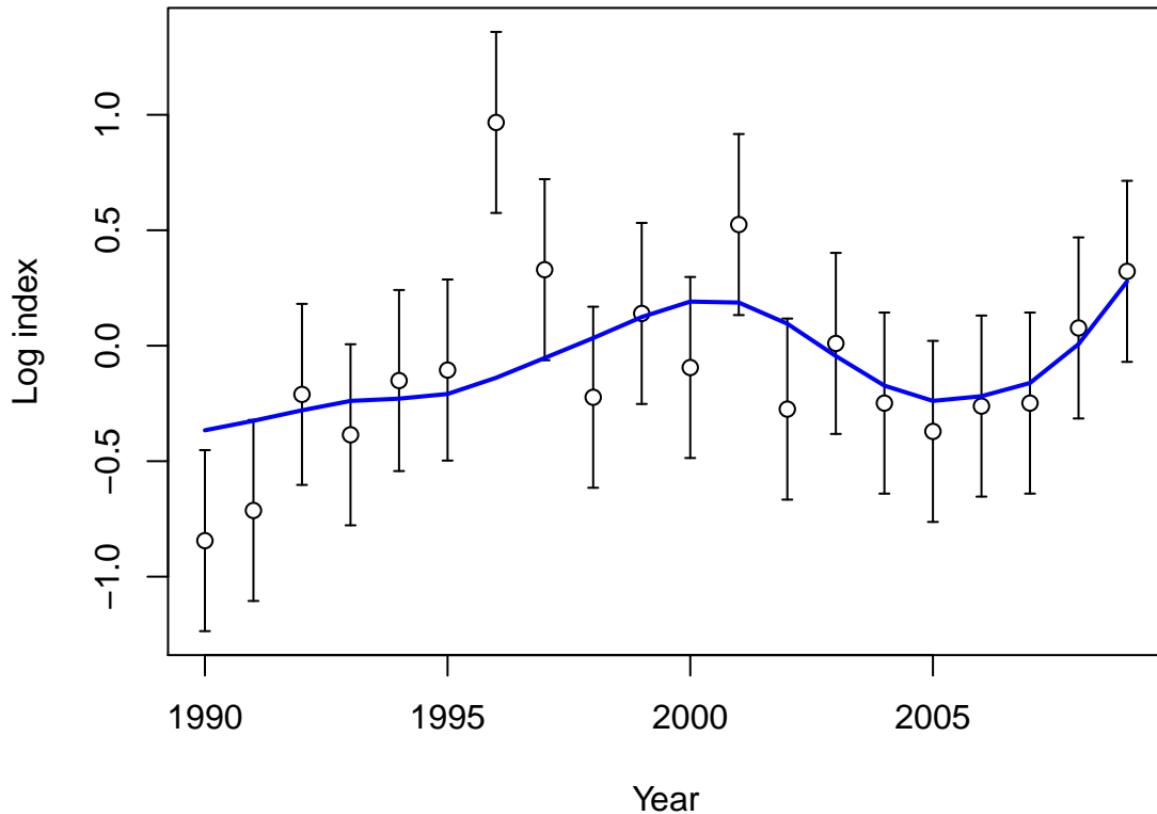
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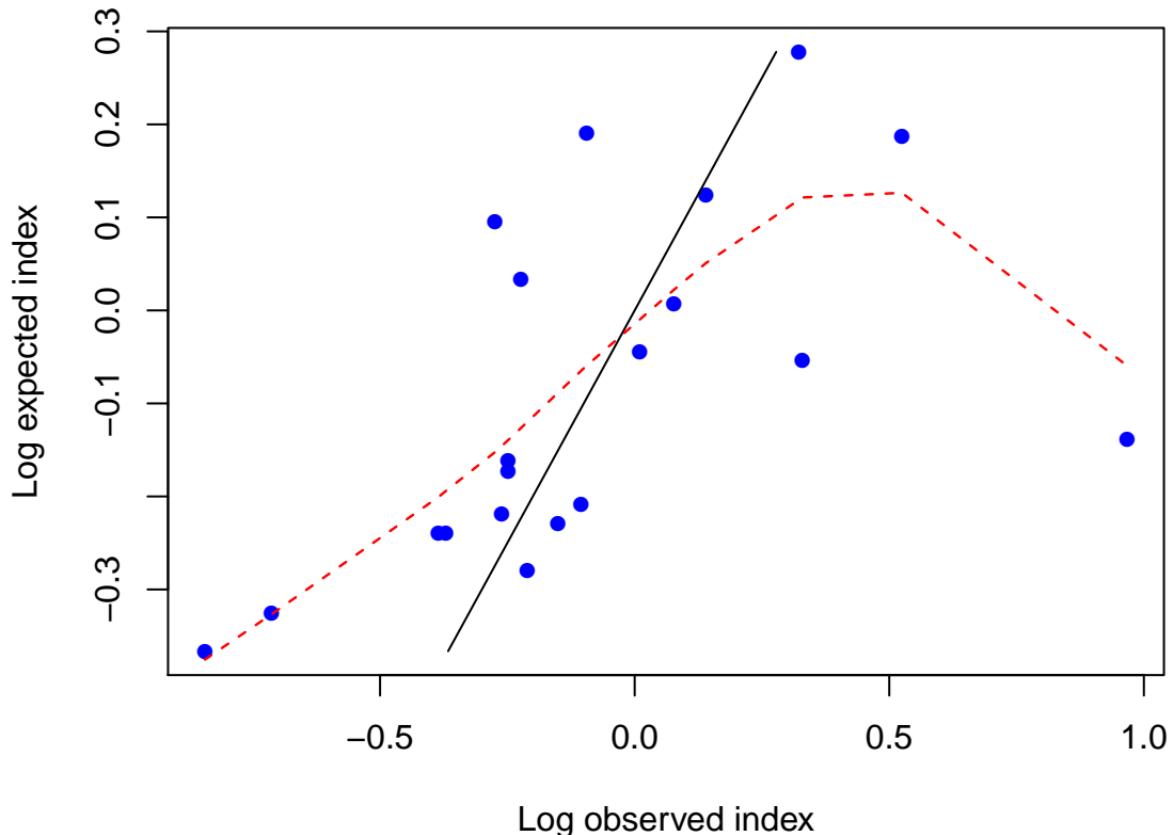
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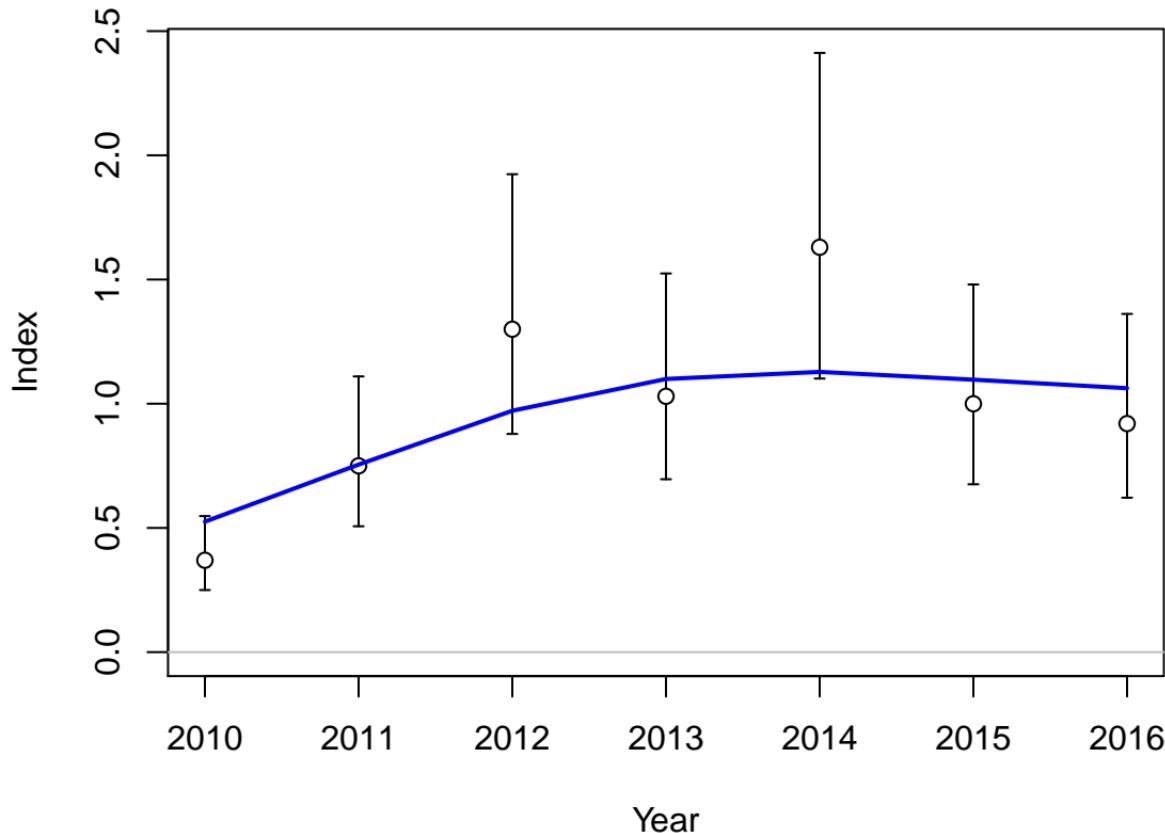
Log index JPLL_NEA



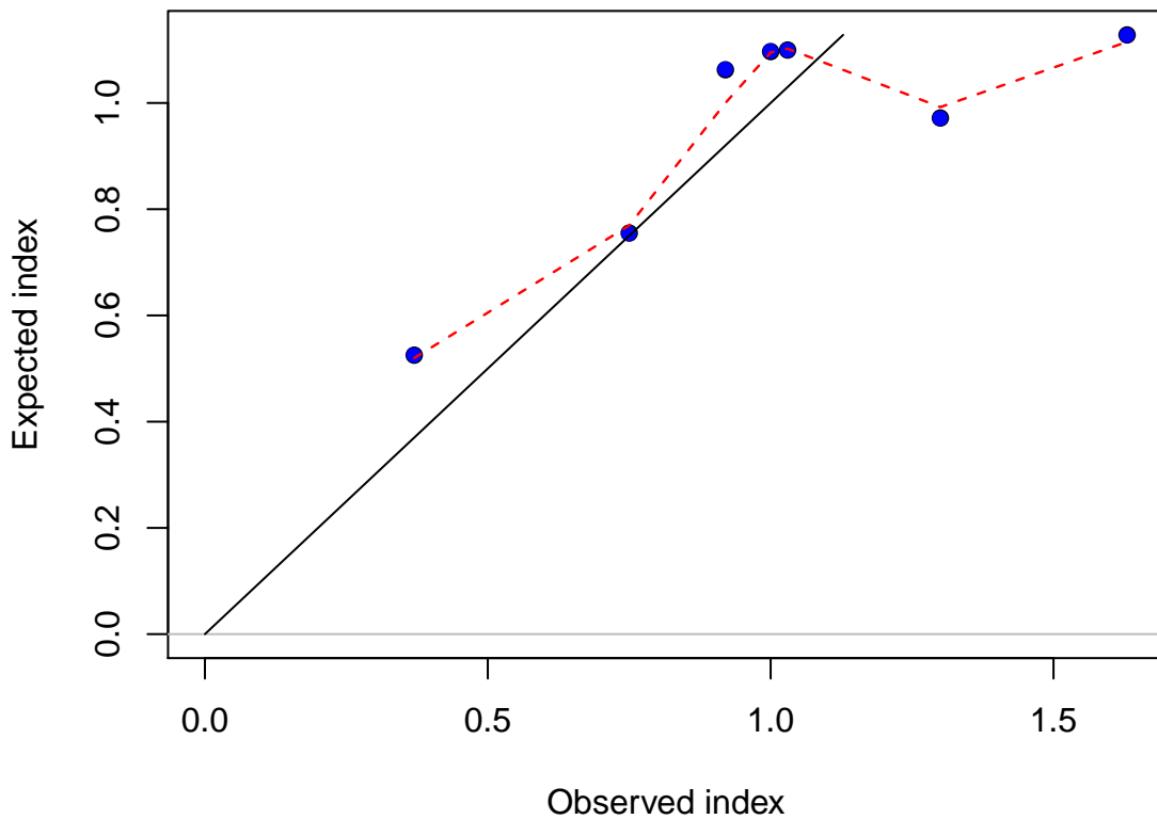
Log index JPLL_NEA



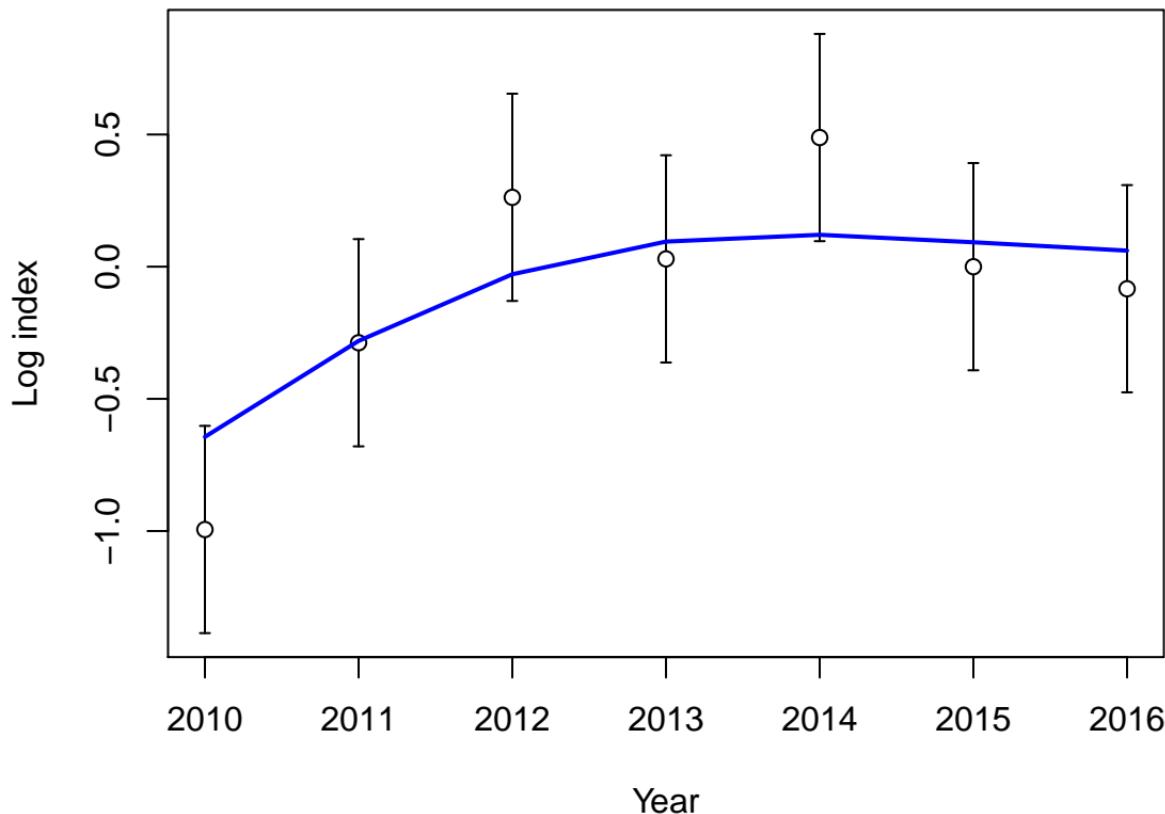
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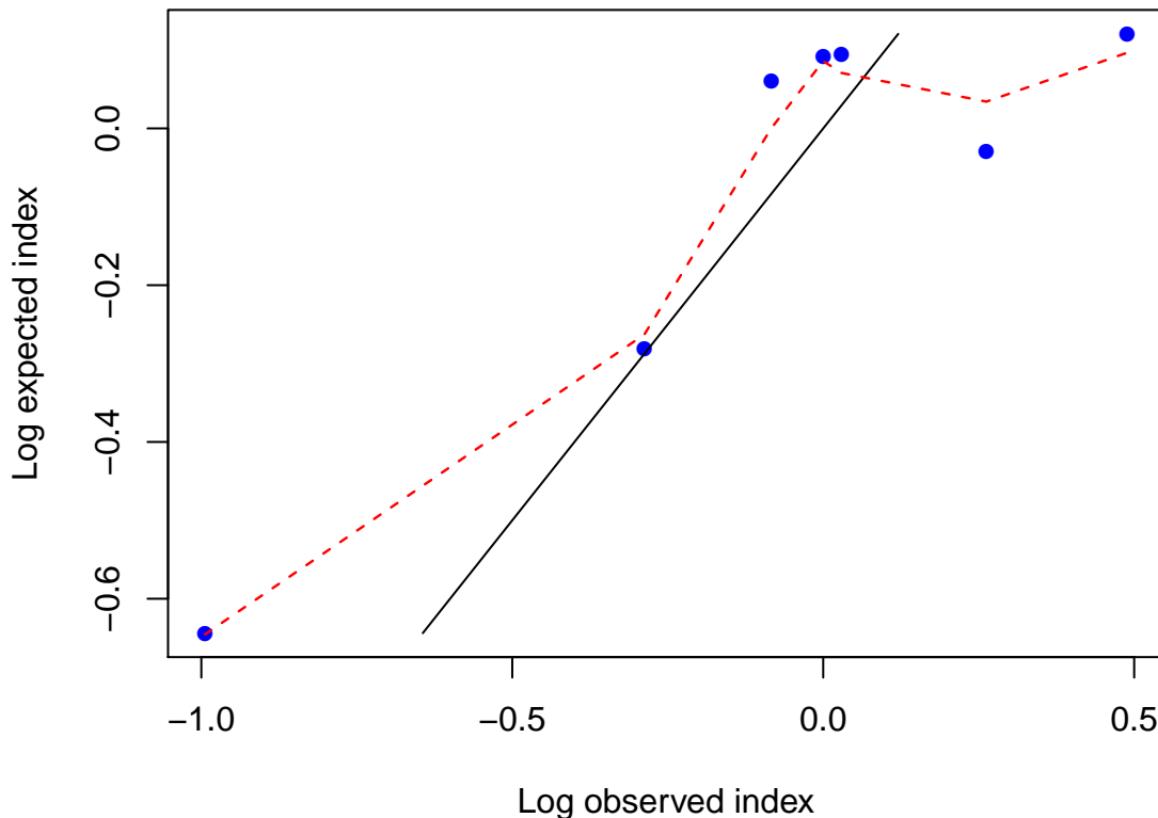
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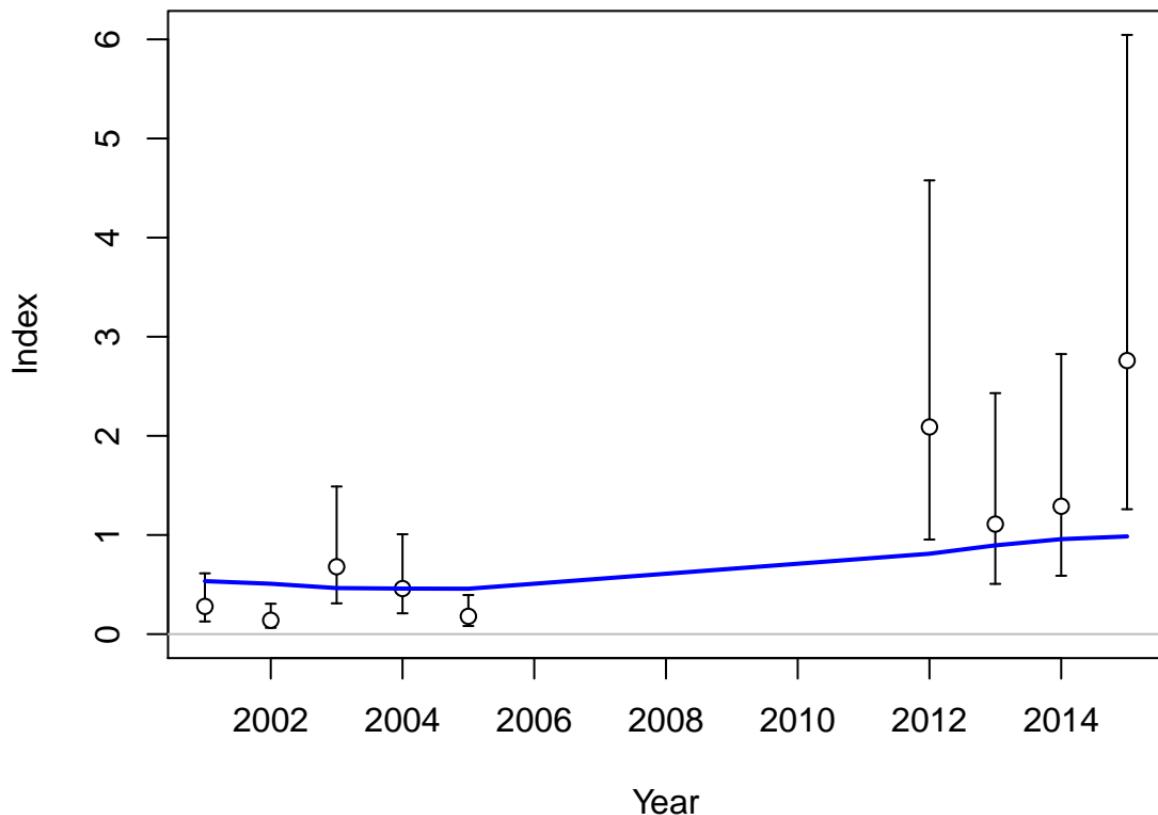
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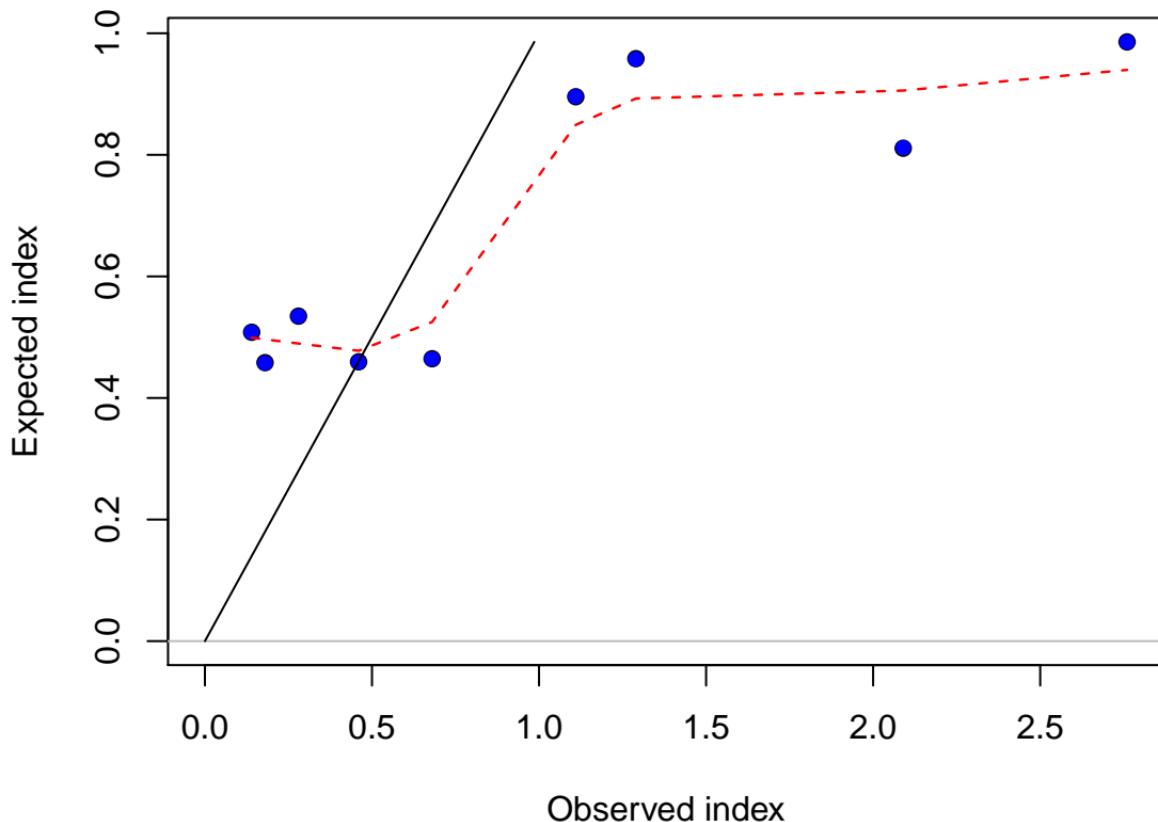
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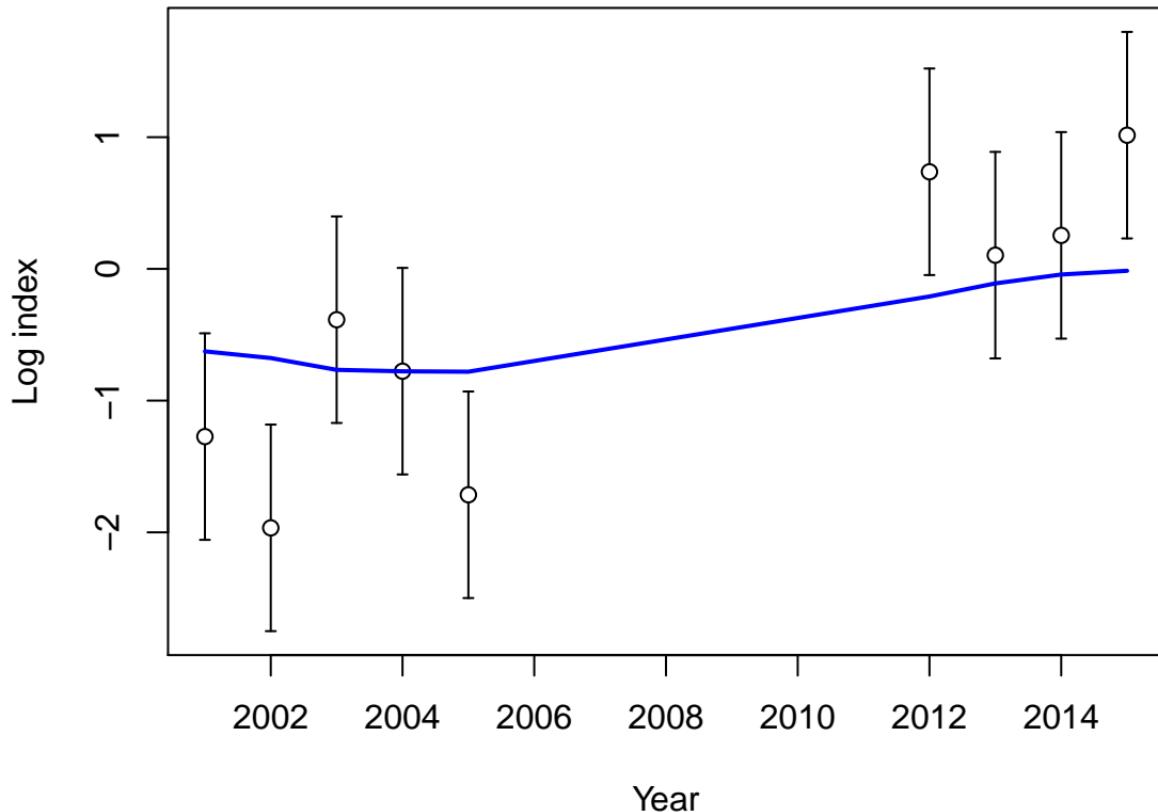
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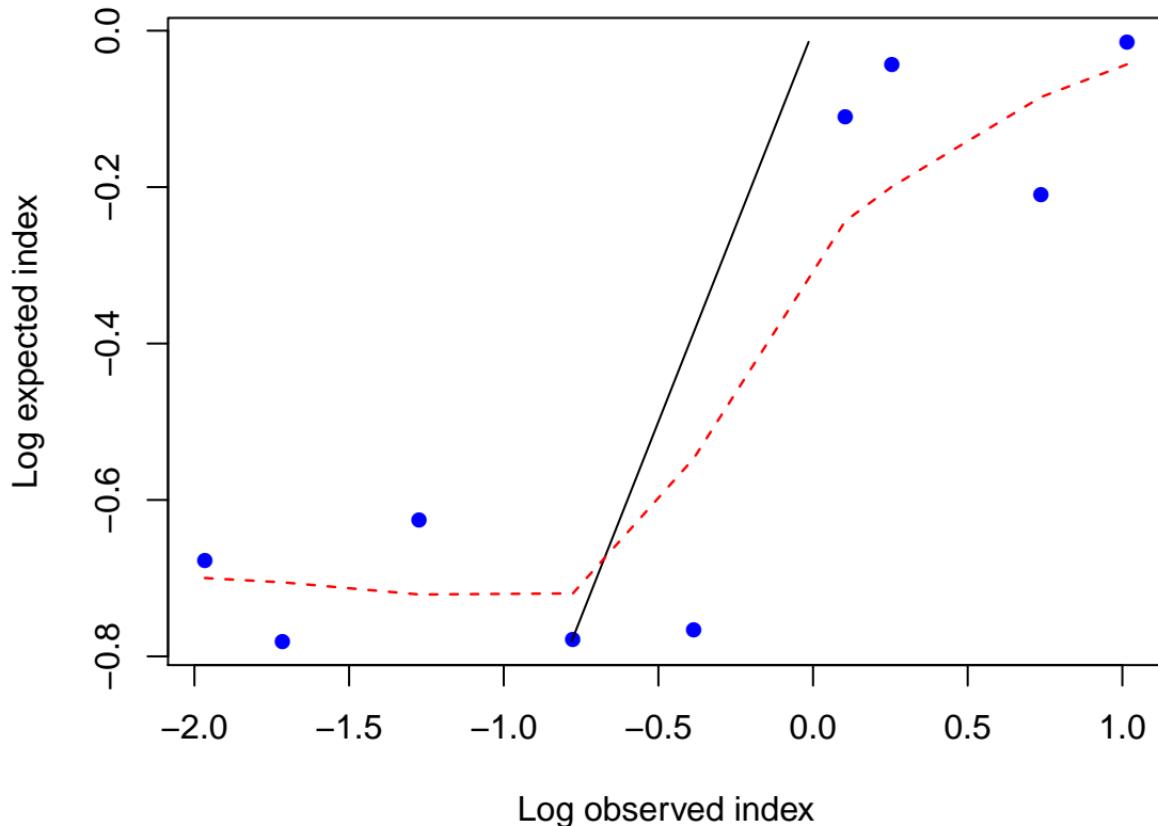
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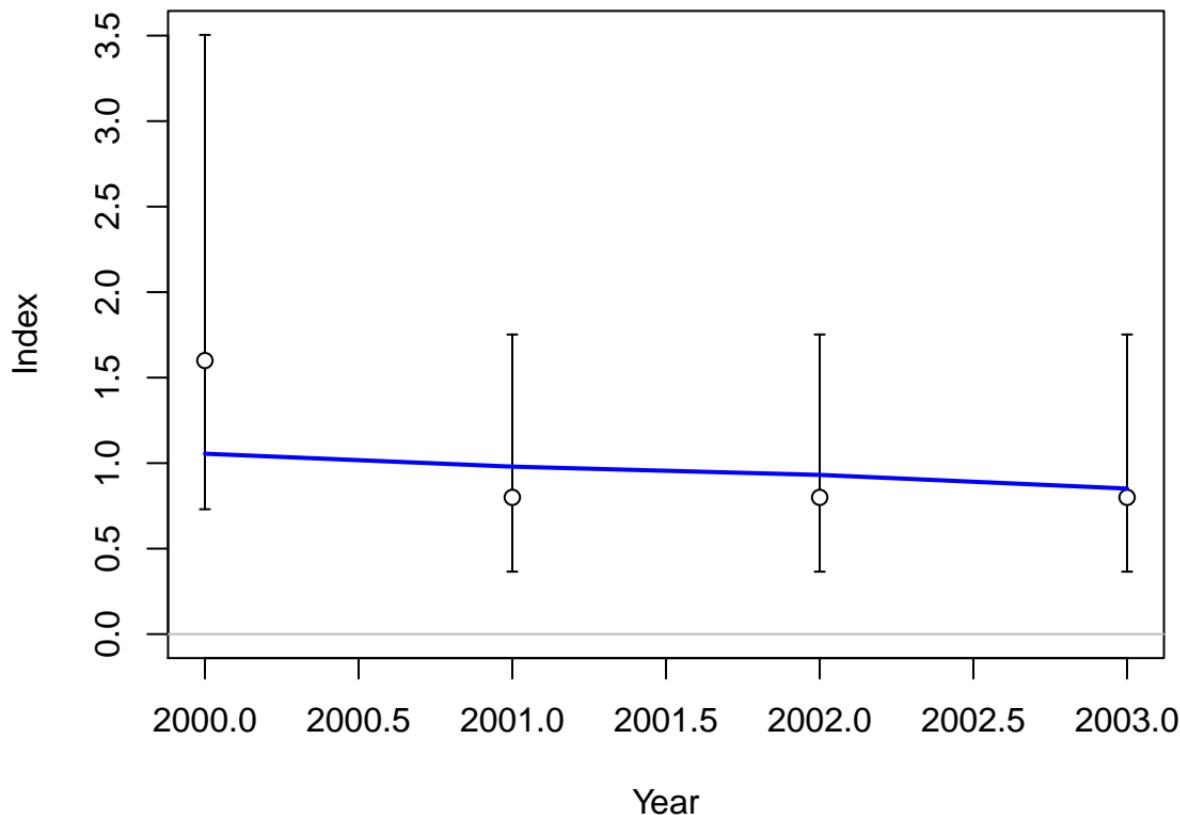
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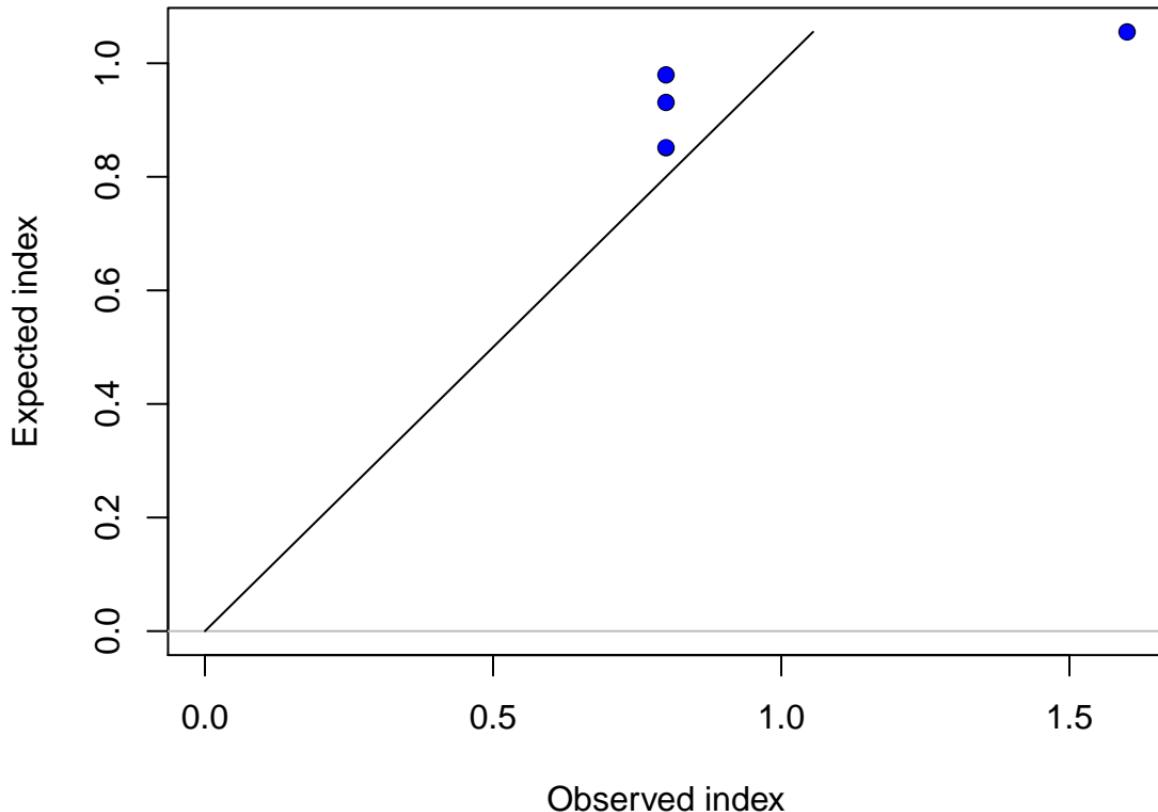
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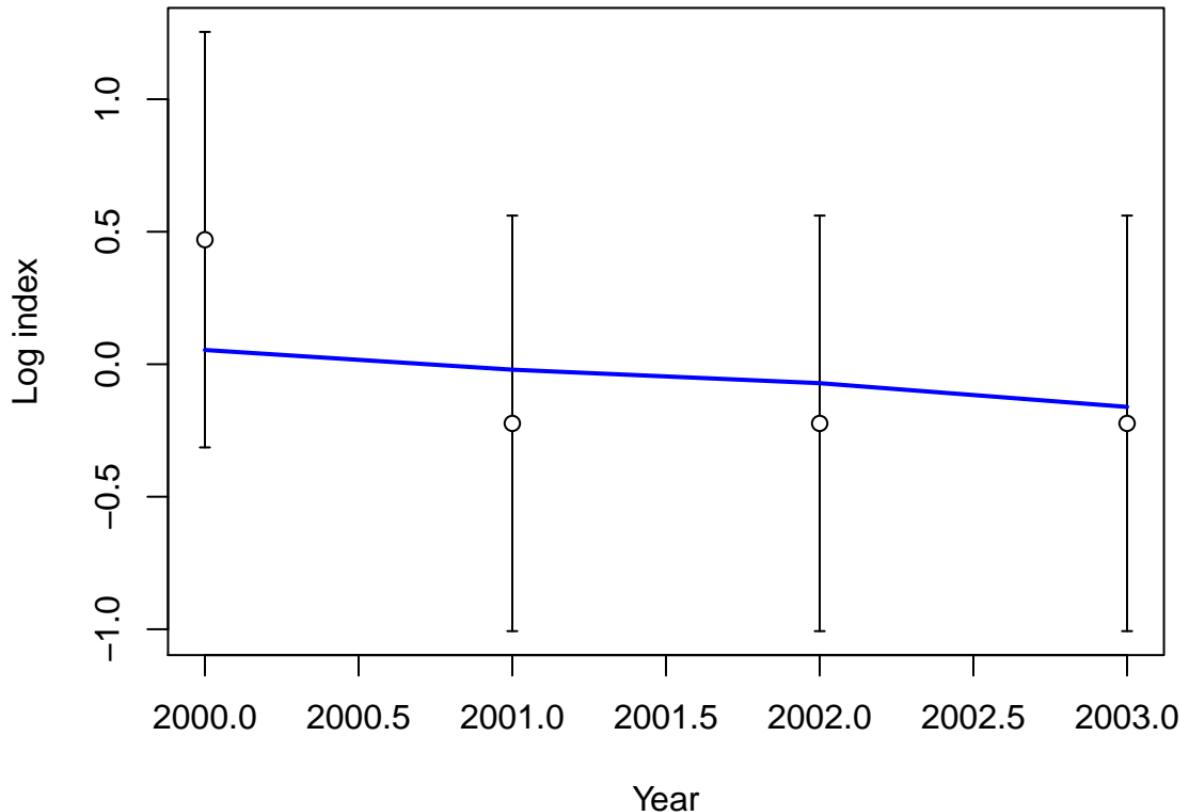
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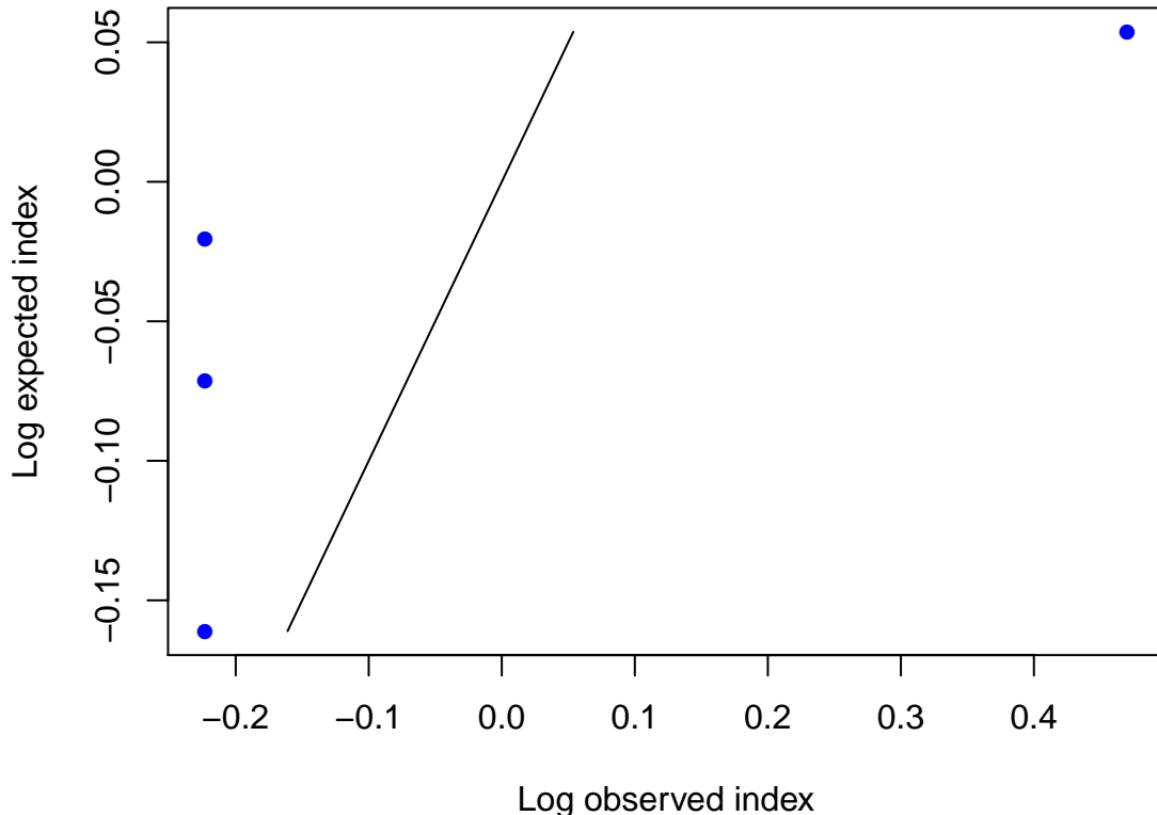
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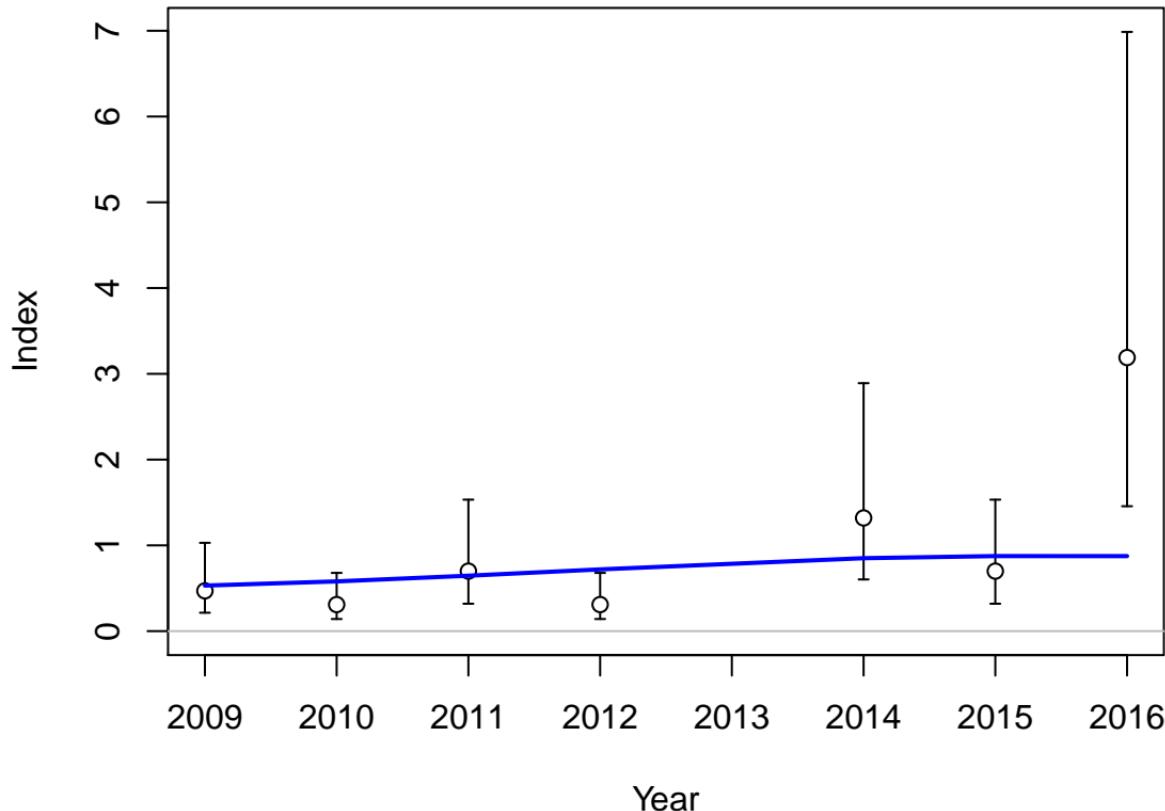
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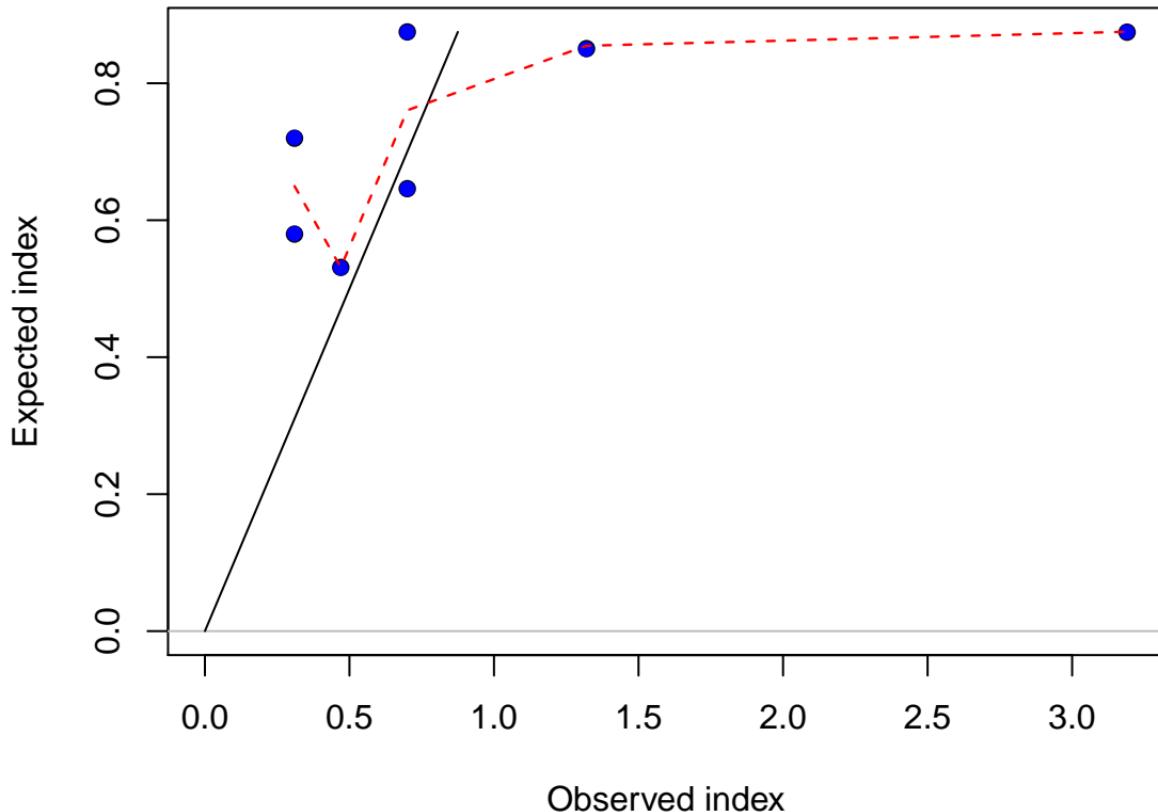
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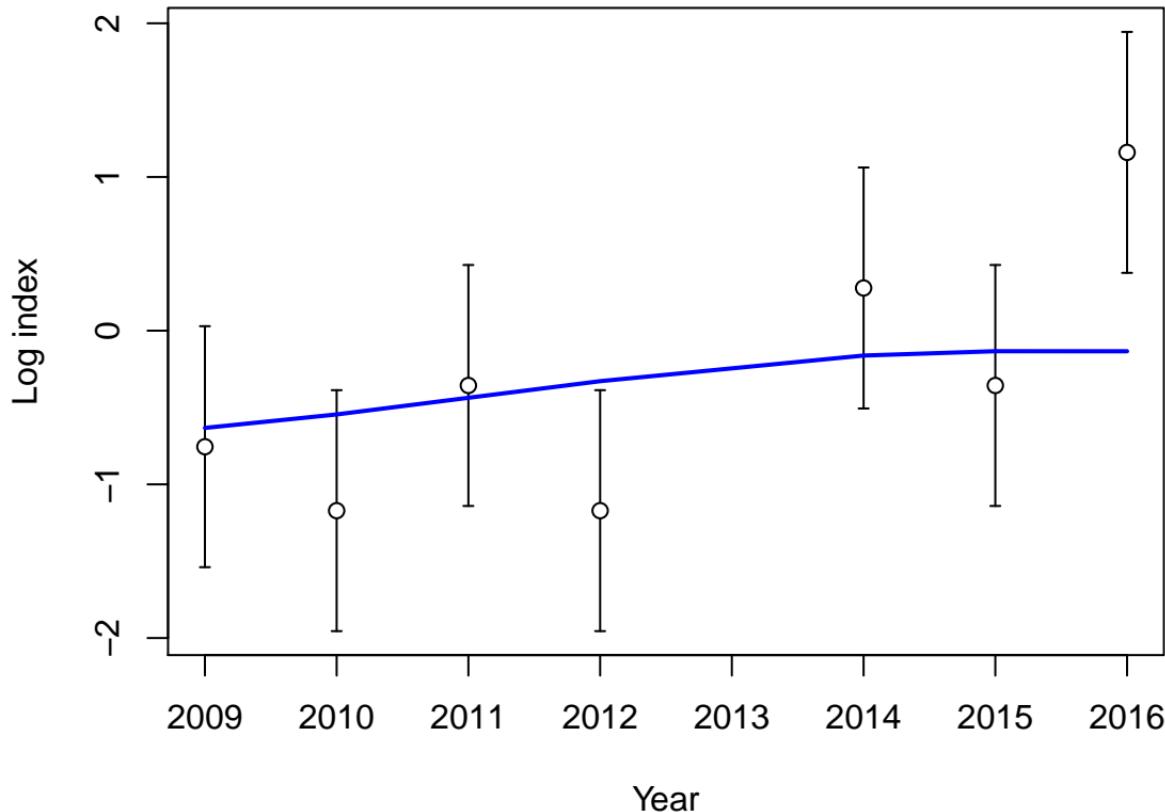
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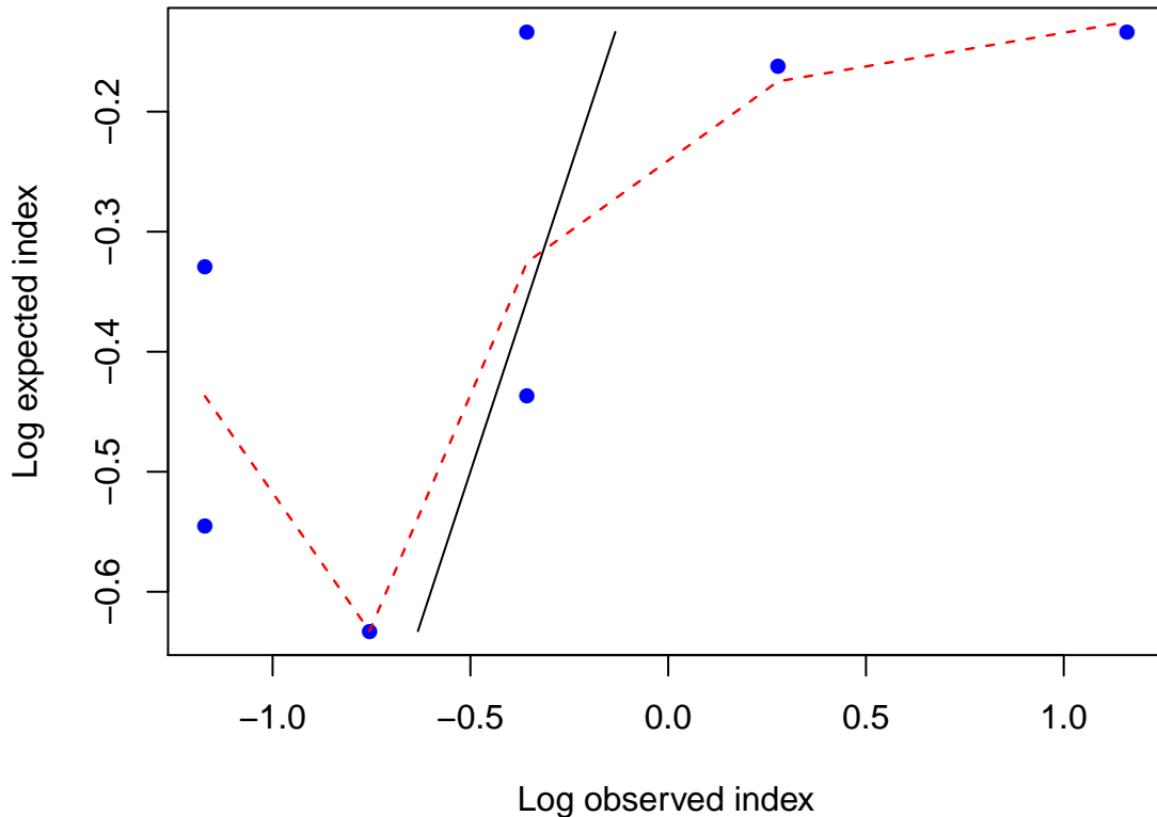
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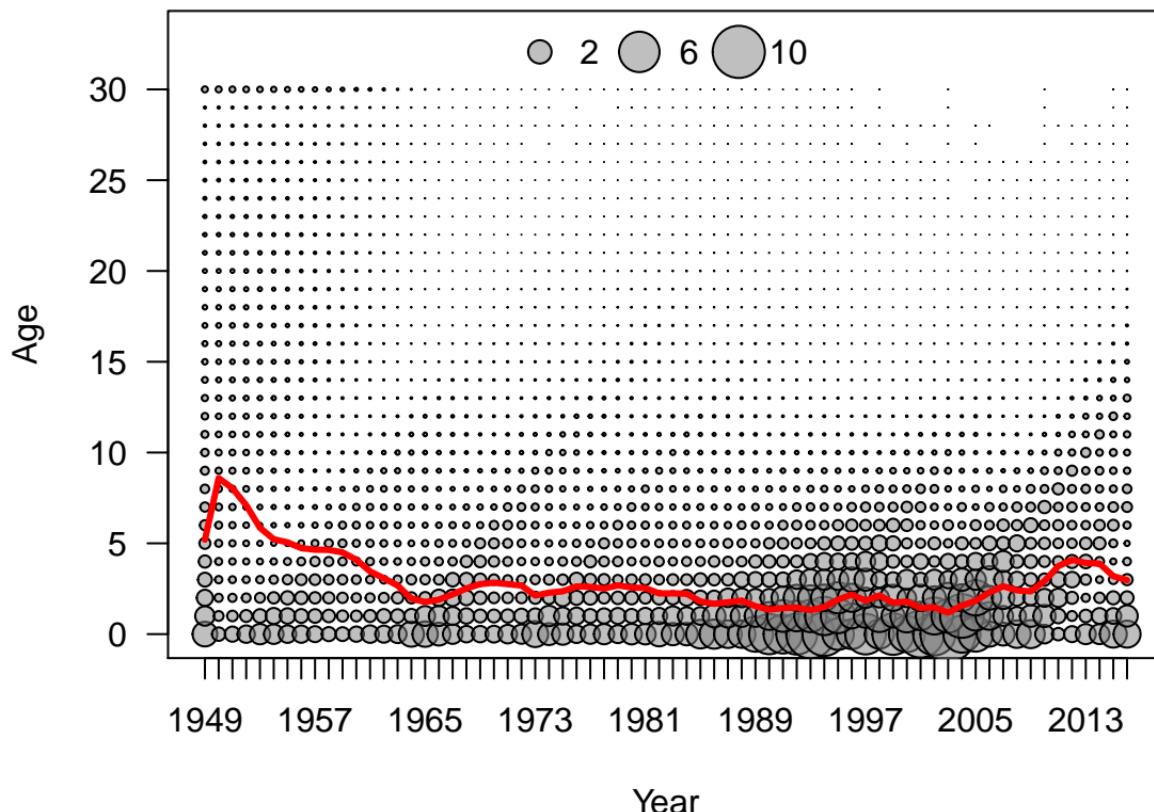
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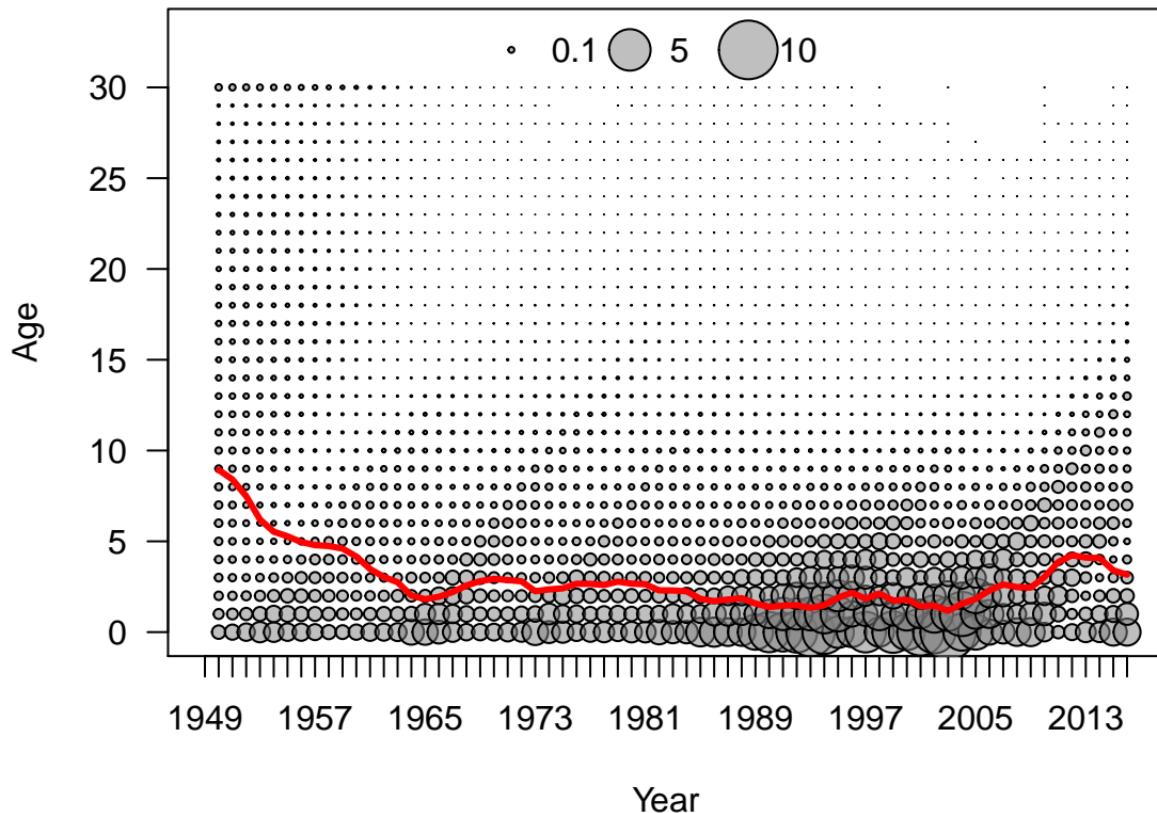
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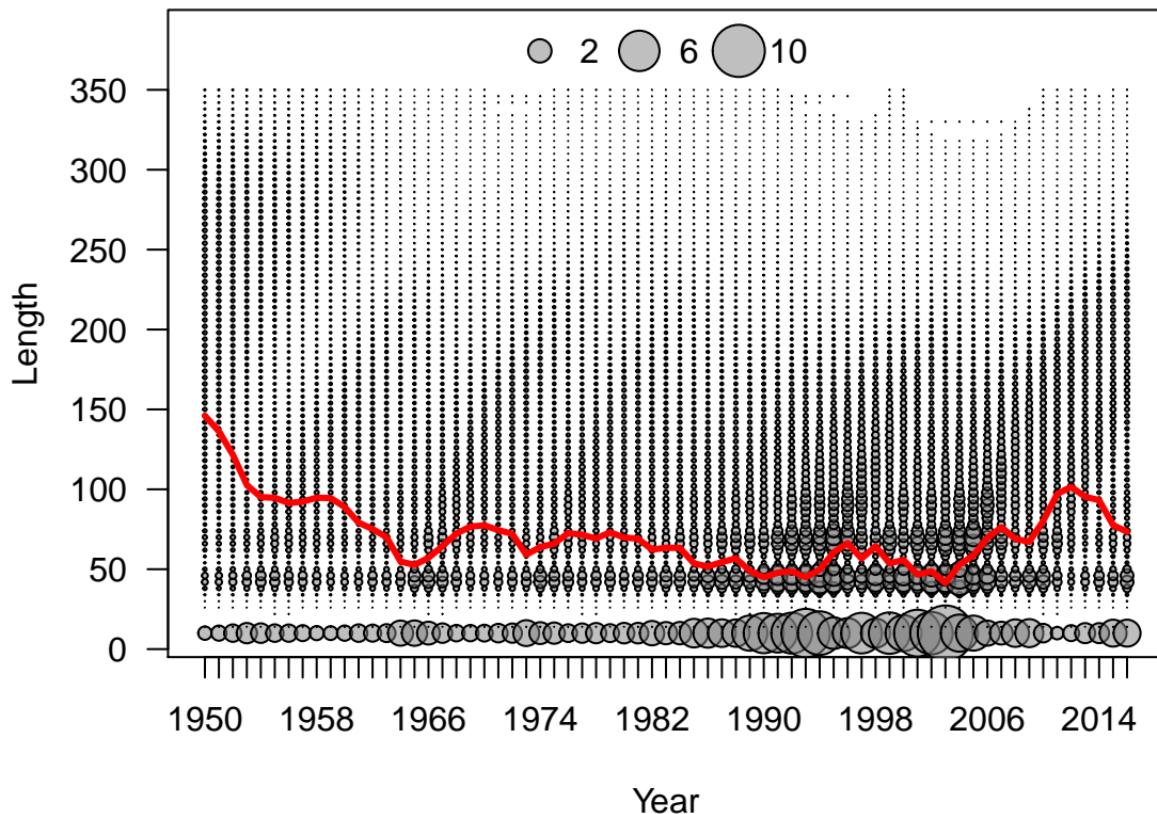
Beginning of year expected numbers at age in (max ~ 11.2 million)



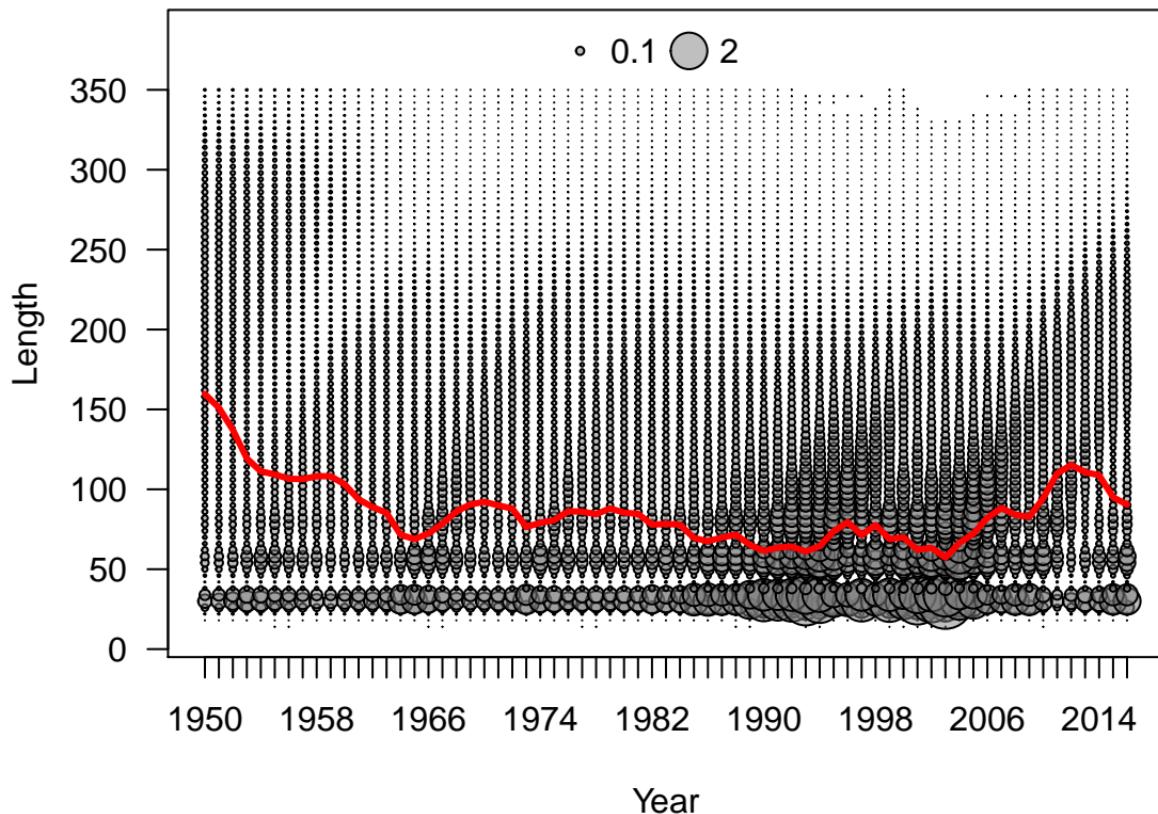
Middle of year expected numbers at age in (max ~ 8.9 million)



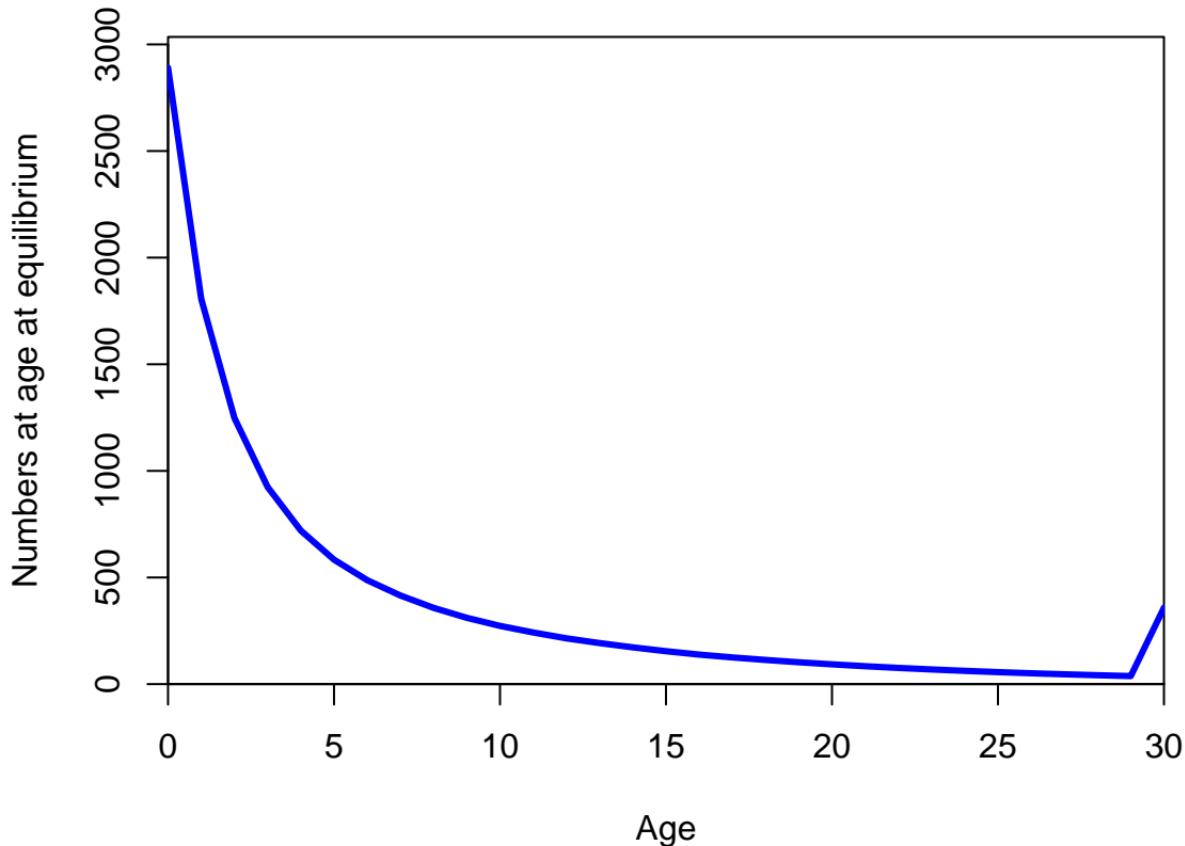
Beginning of year expected numbers at length in (max ~ 11.2 million)



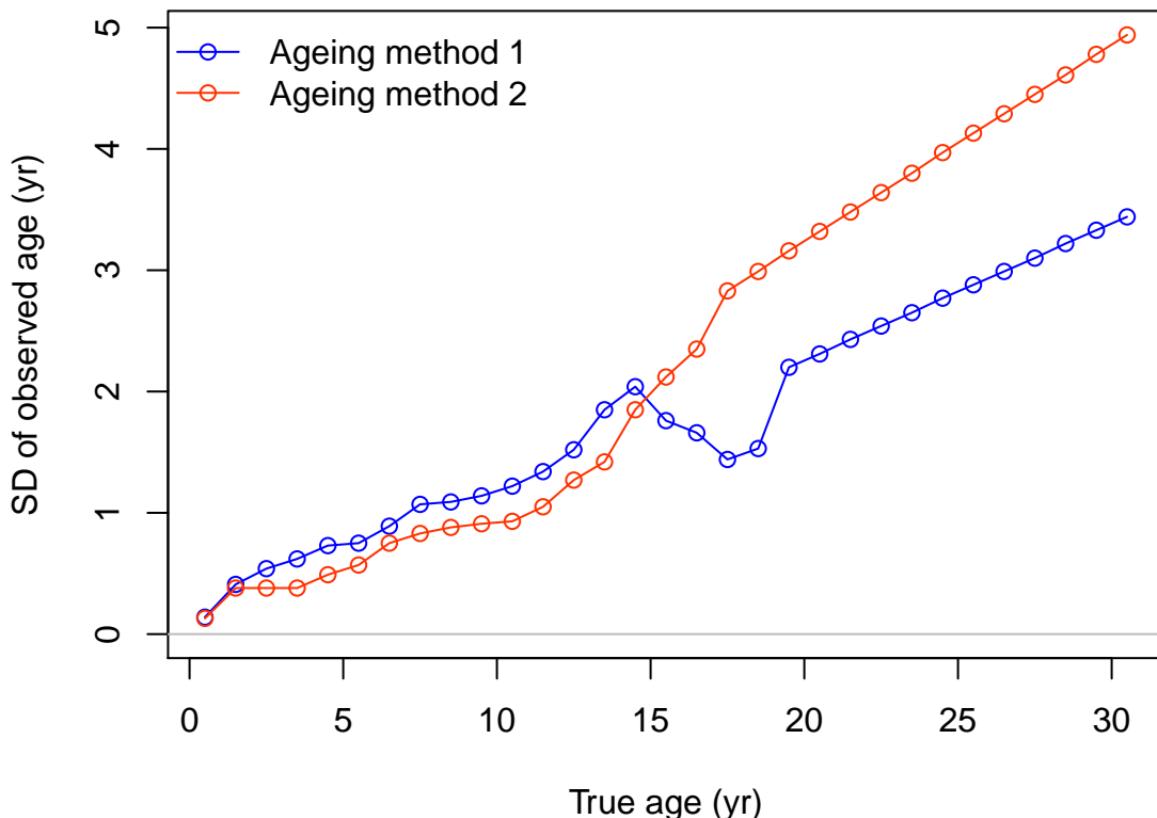
Middle of year expected numbers at length in (max ~ 4.6 million)



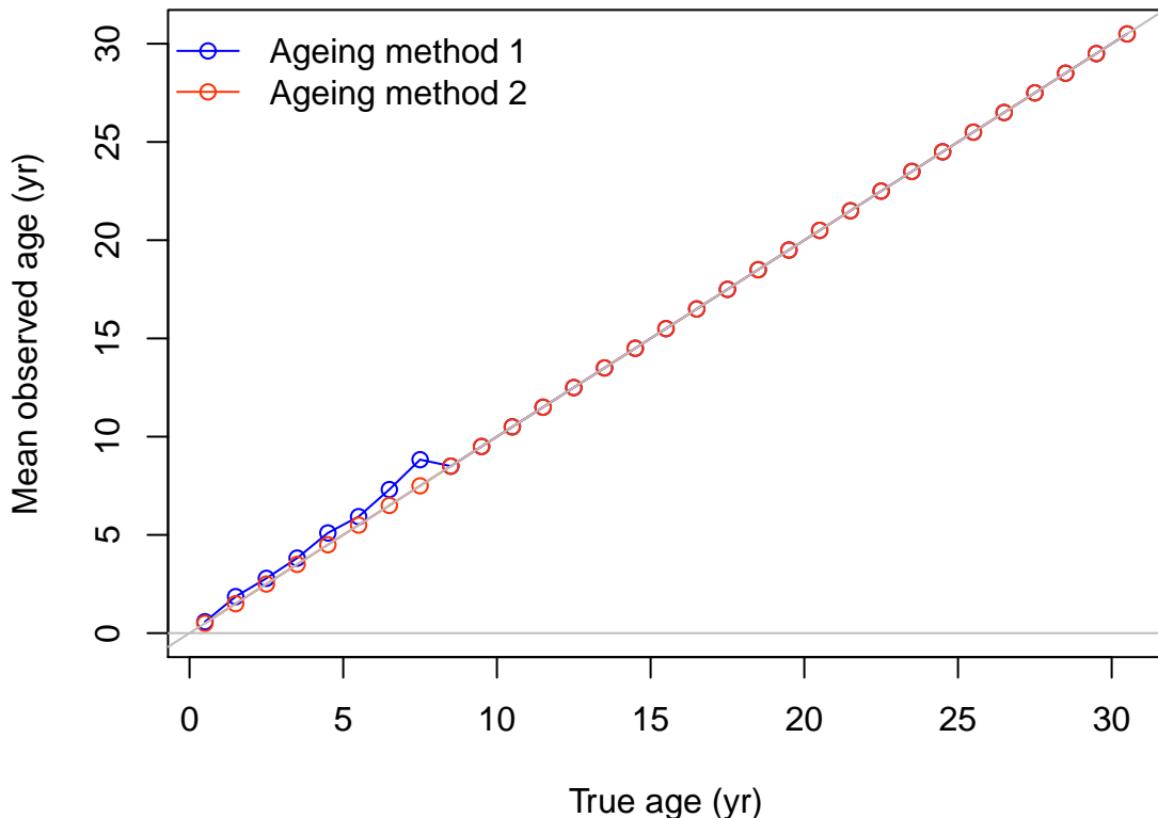
Equilibrium age distribution



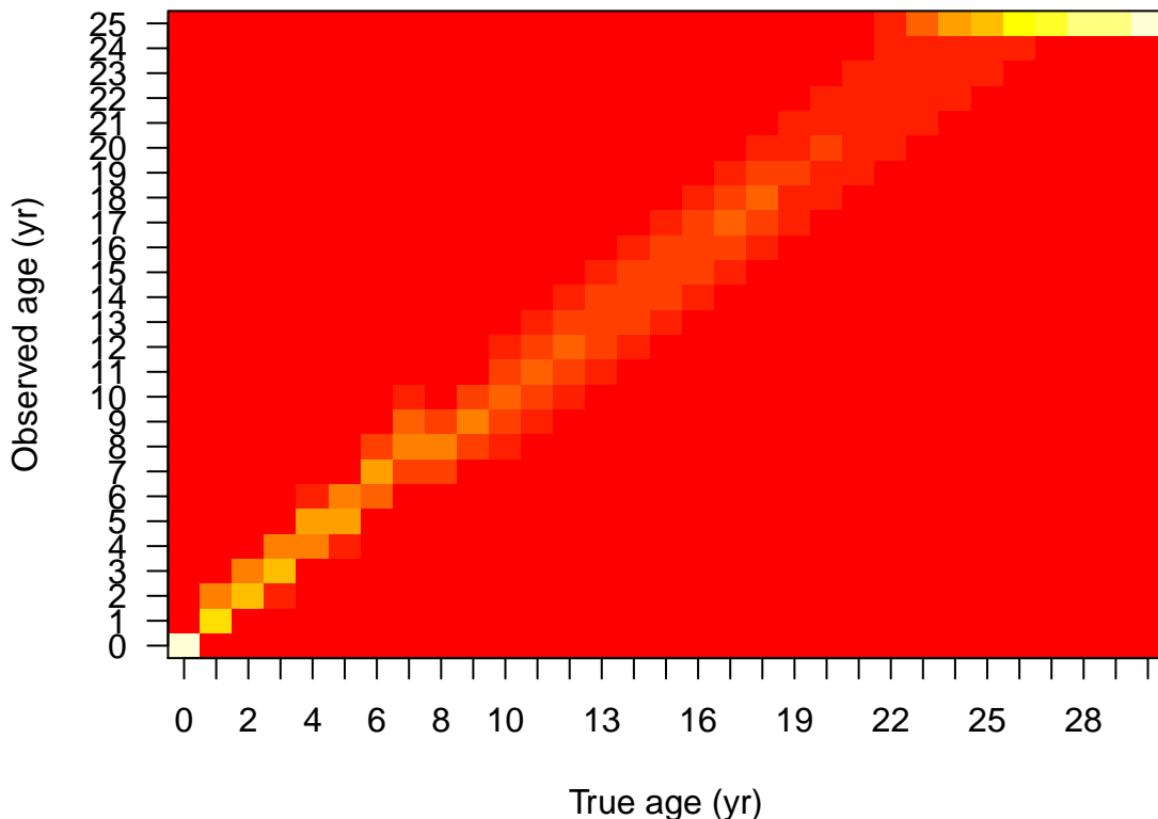
Ageing imprecision



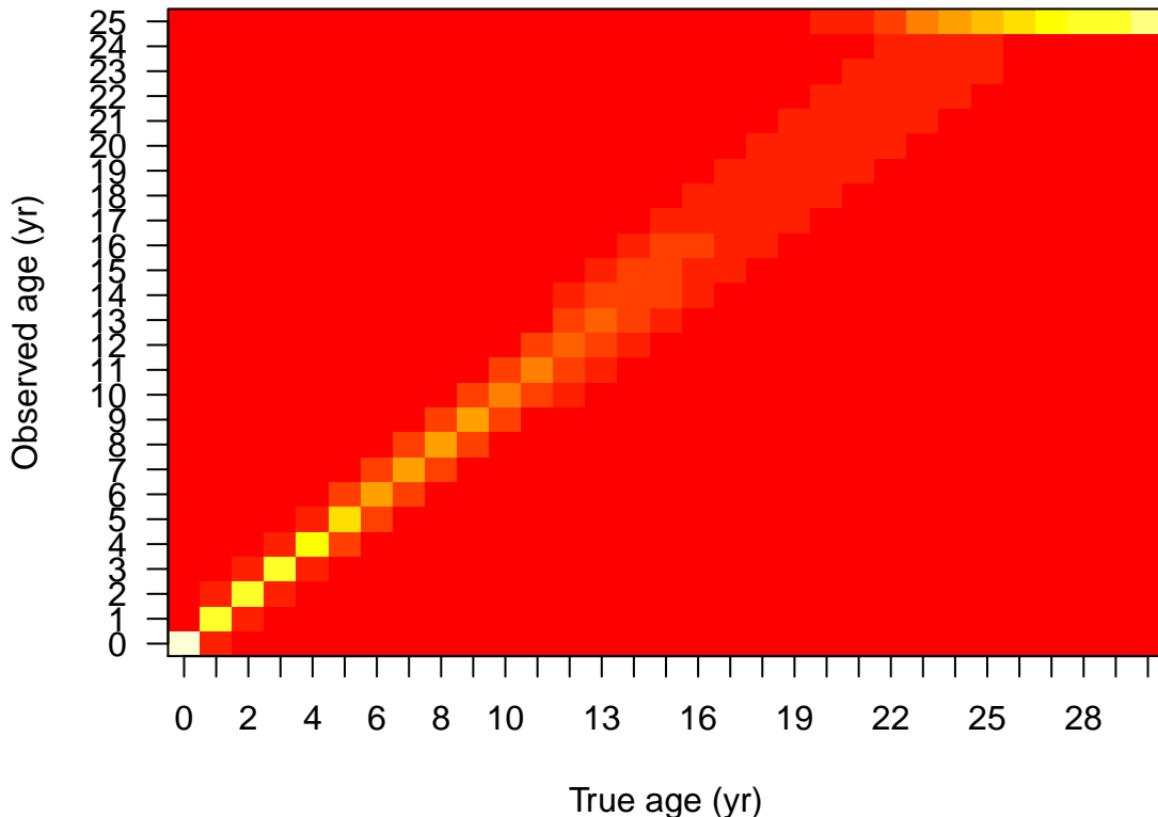
Ageing imprecision



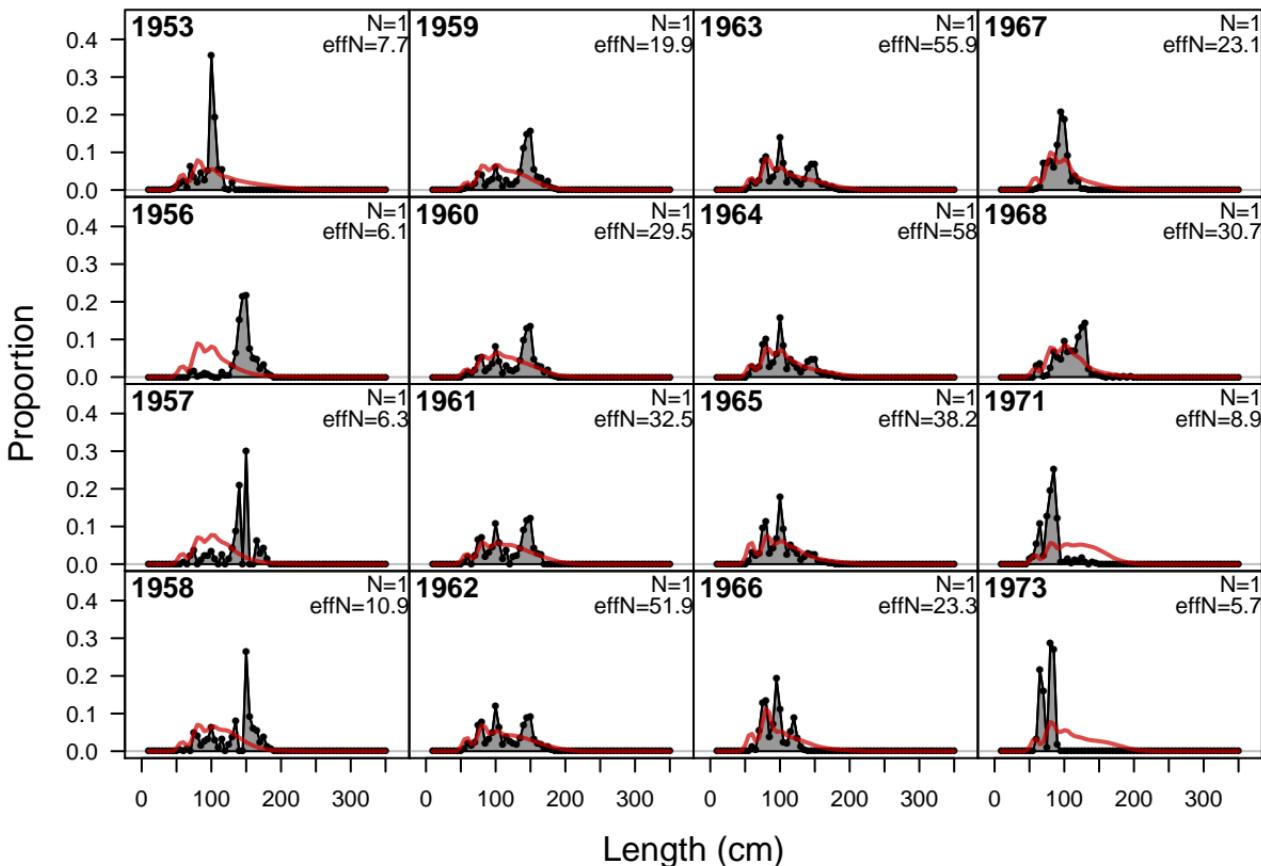
Ageing imprecision: matrix for method 1



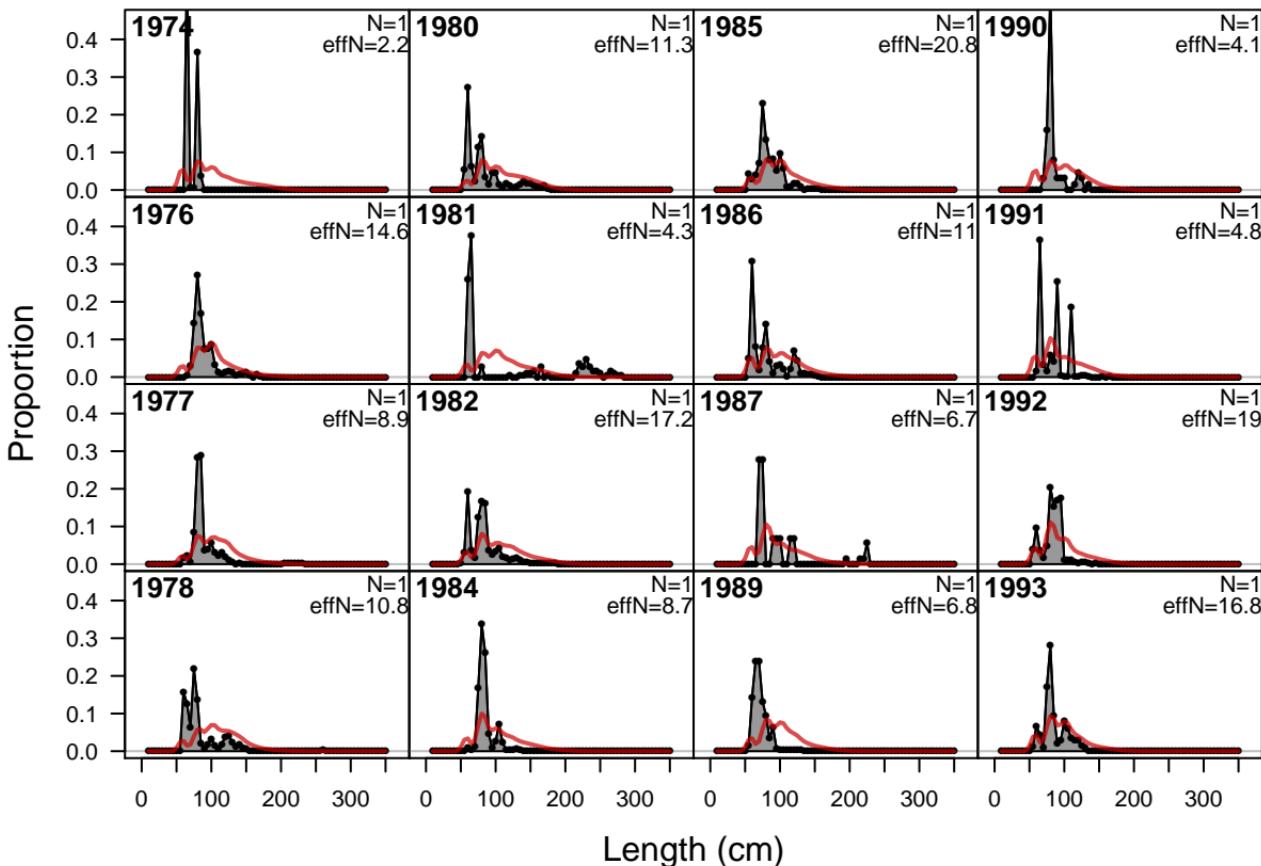
Ageing imprecision: matrix for method 2



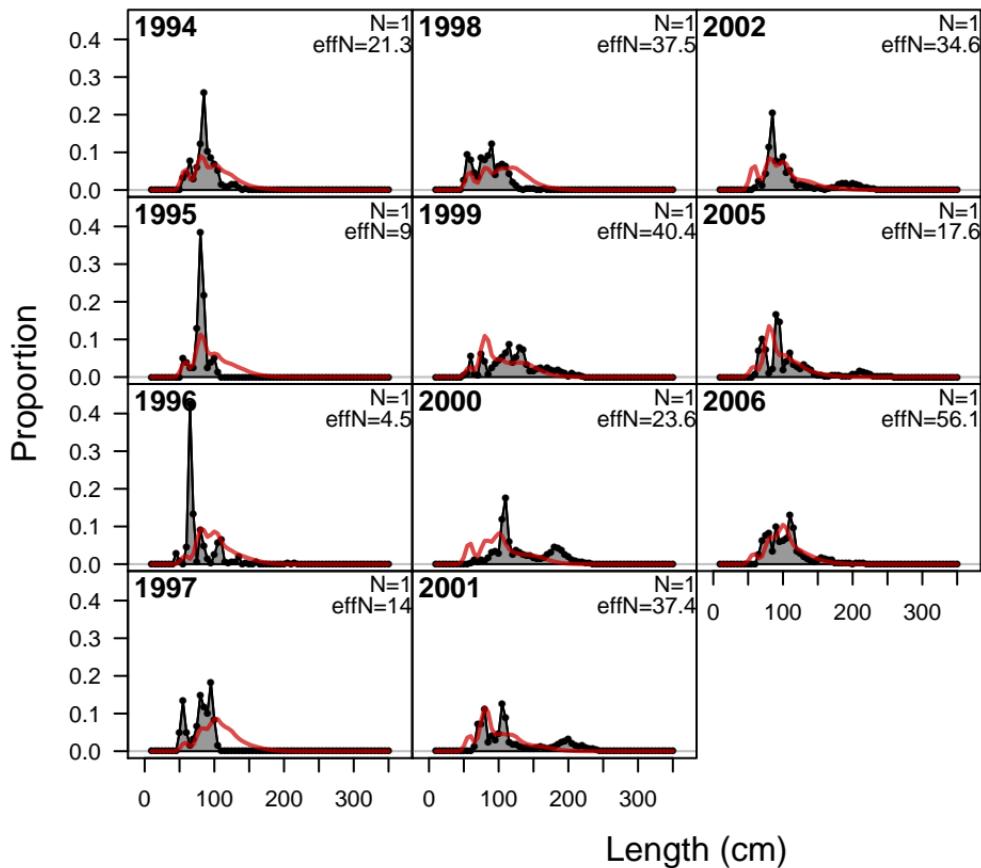
Length comps, whole catch, BB52_06



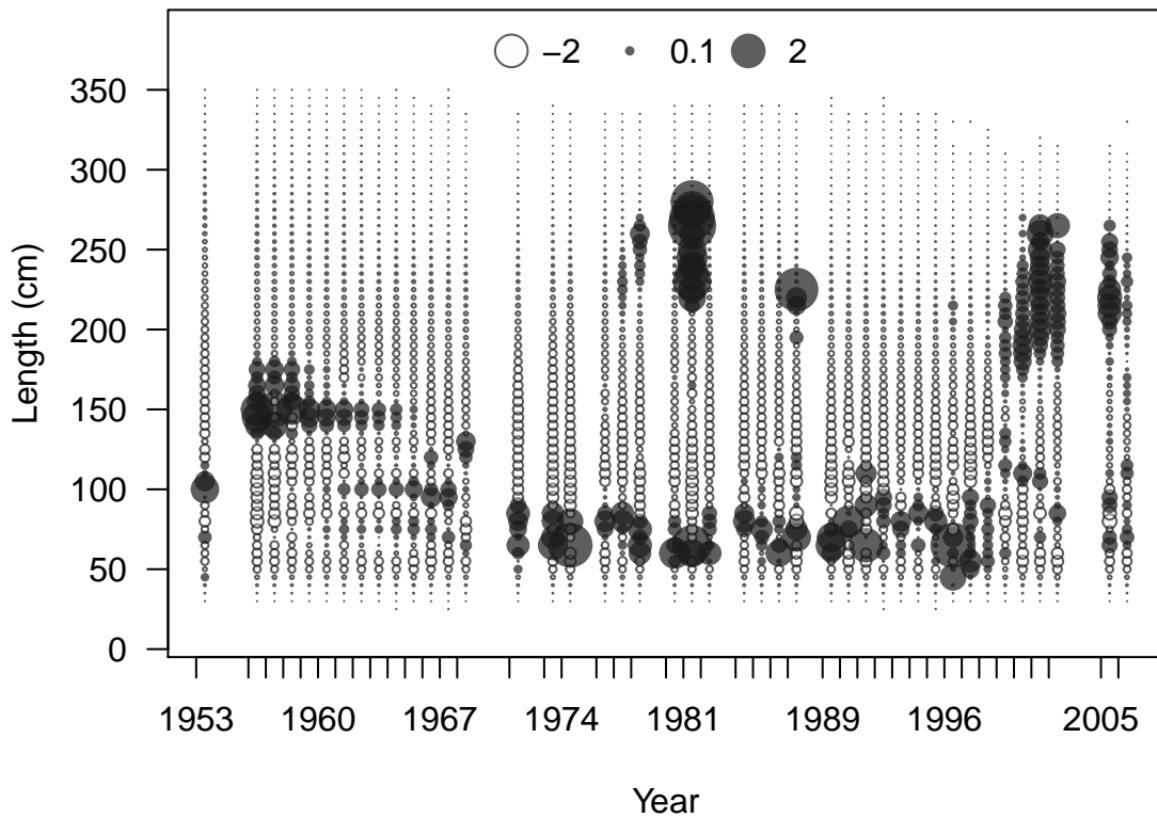
Length comps, whole catch, BB52_06



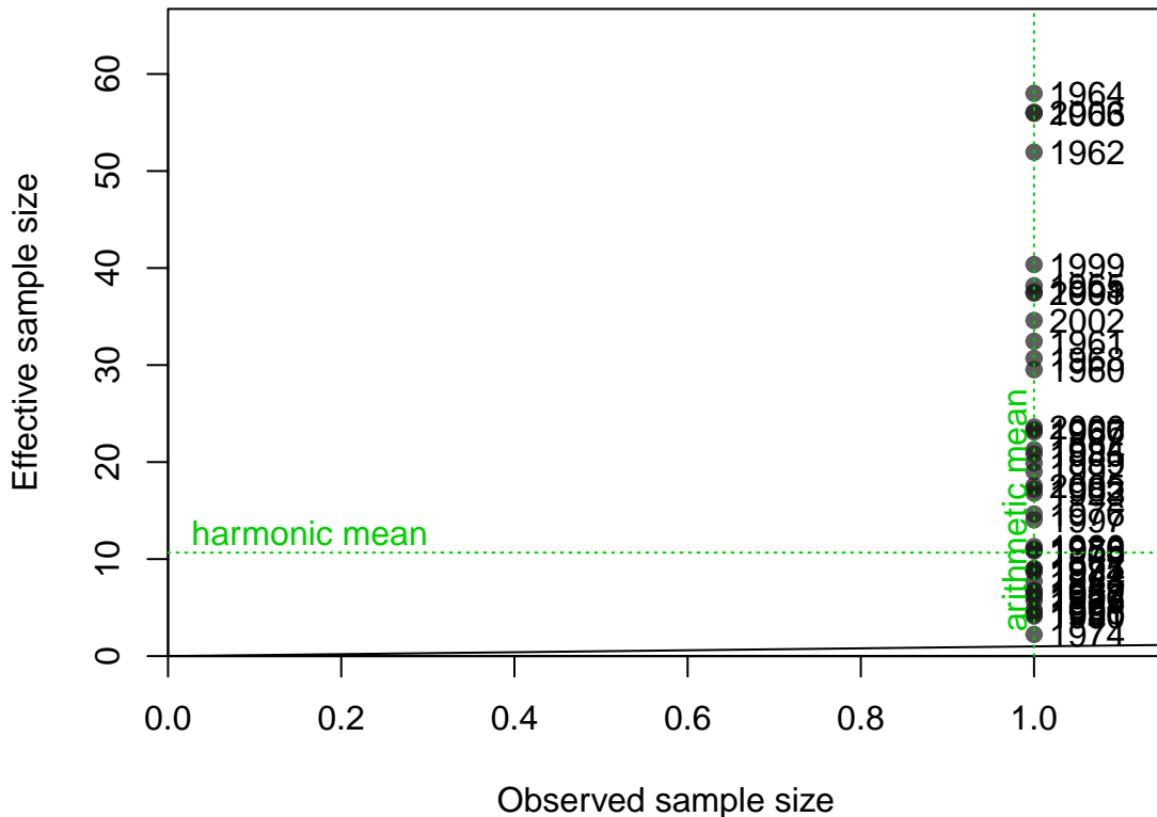
Length comps, whole catch, BB52_06



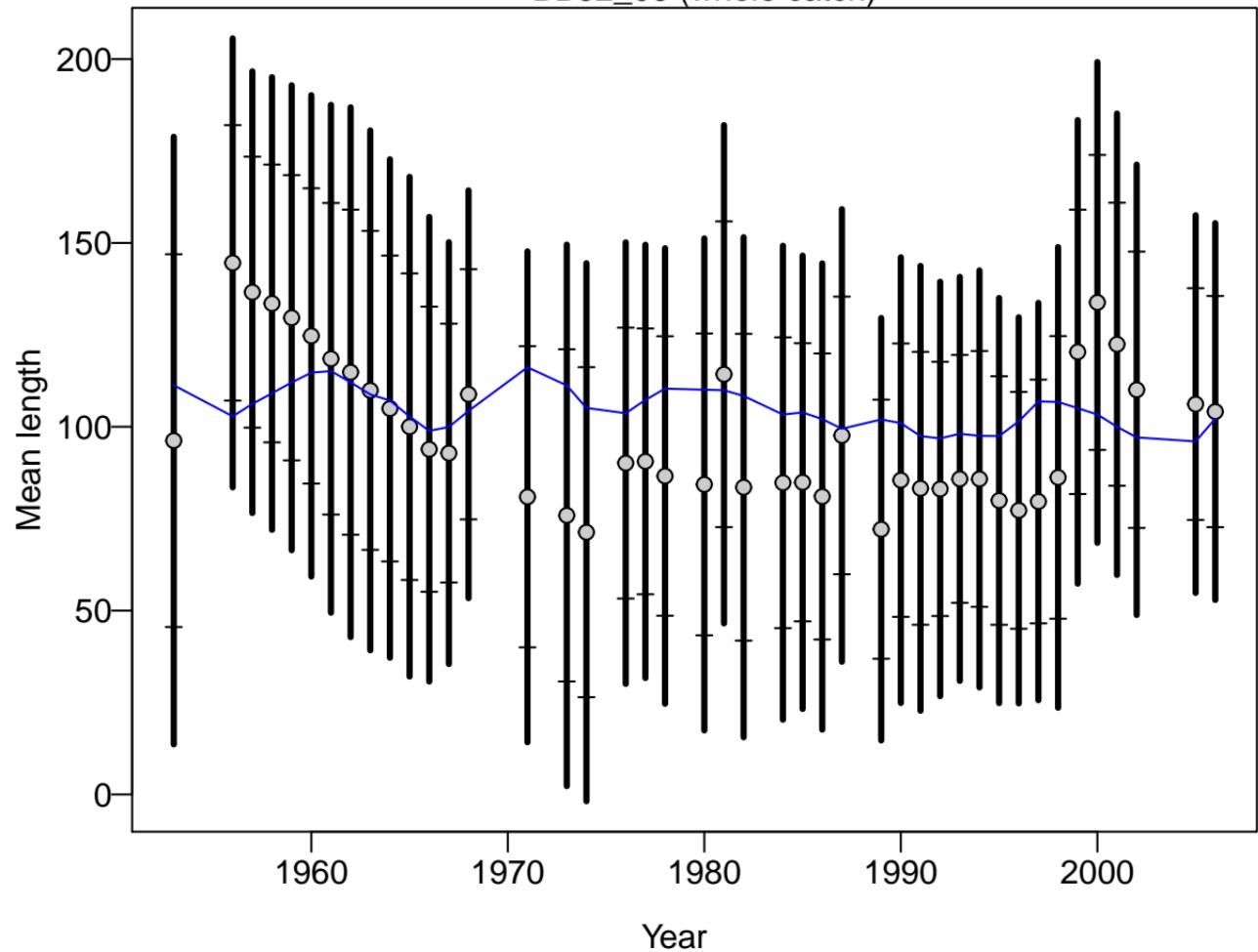
Pearson residuals, whole catch, BB52_06 (max=3.98)



N-EffN comparison, Length comps, whole catch, BB52_06

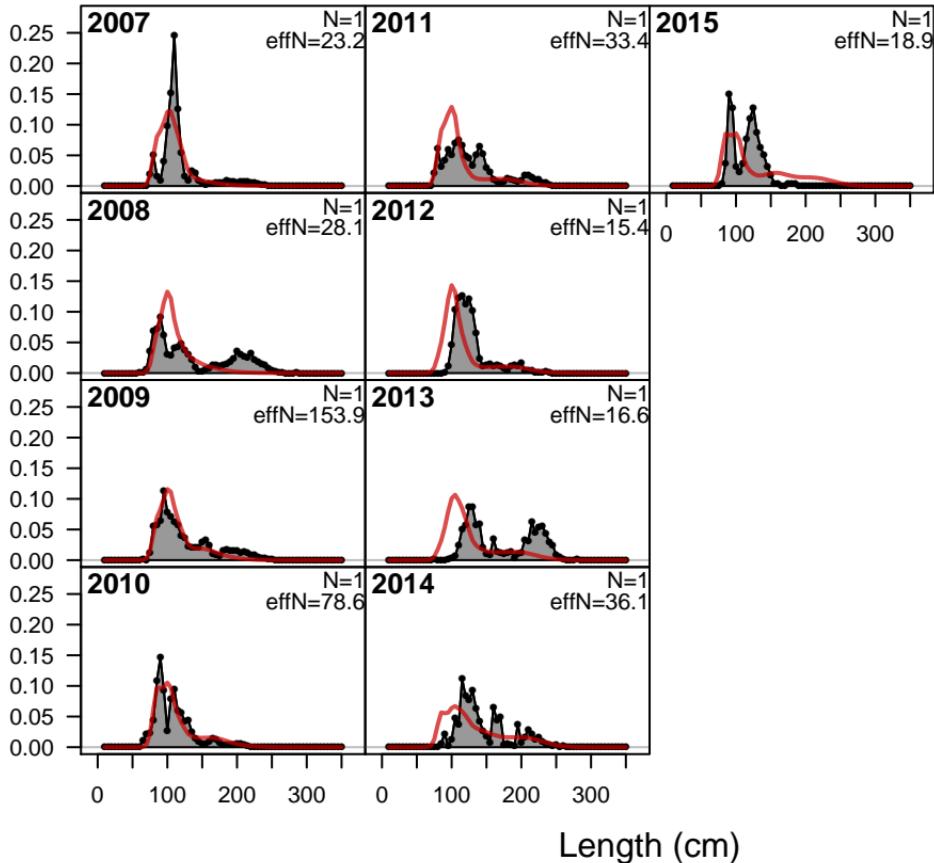


BB52_06 (whole catch)

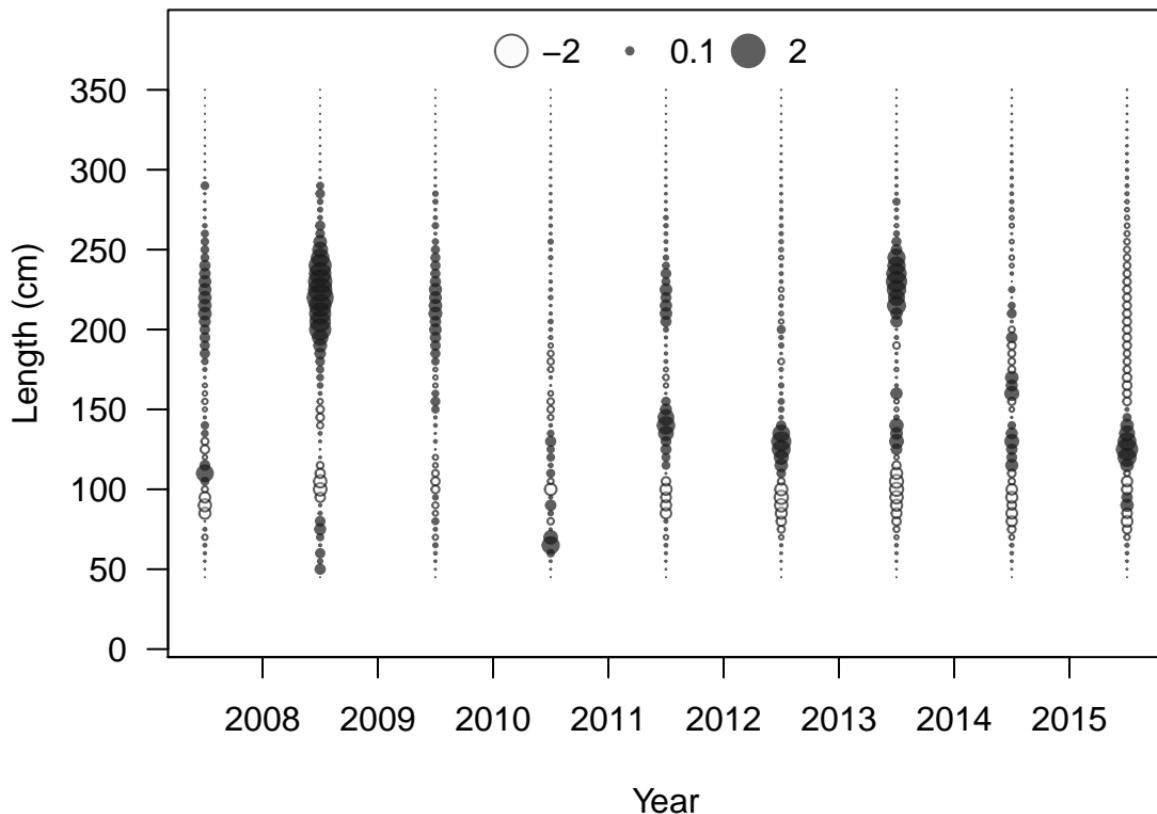


Length comps, whole catch, BB06_15

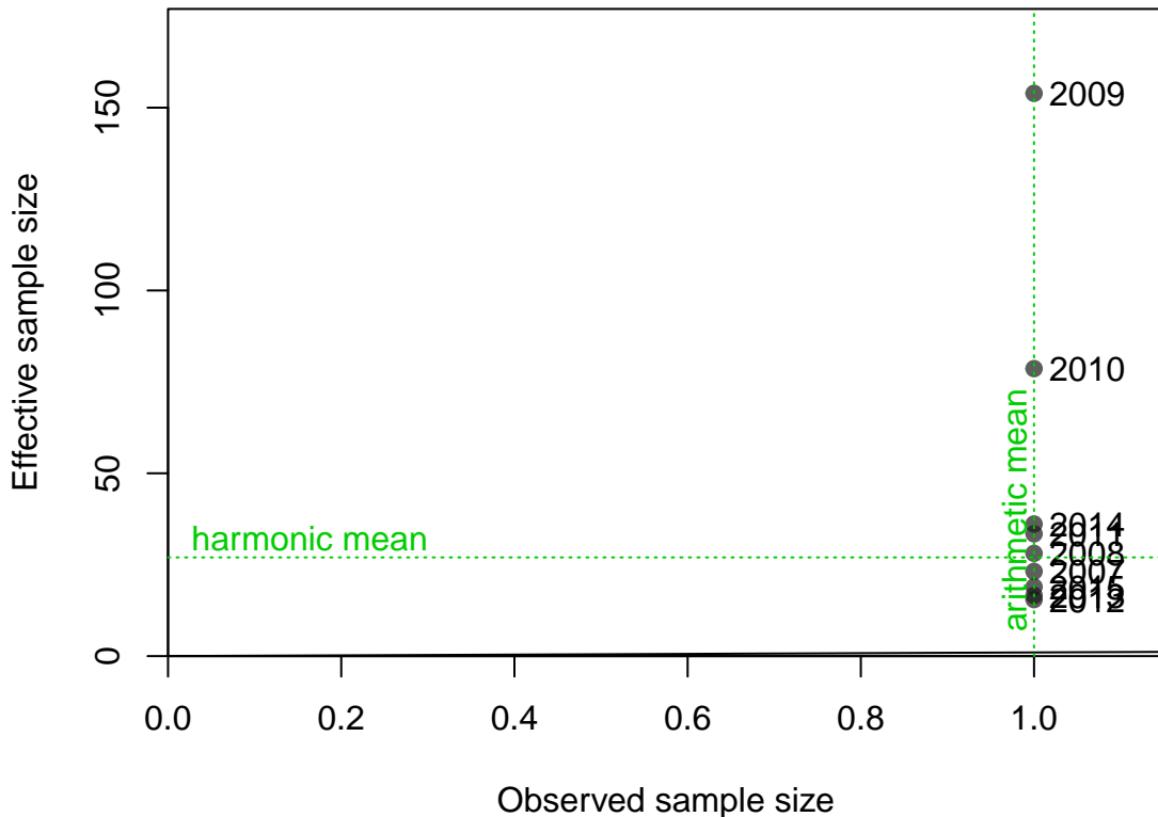
Proportion



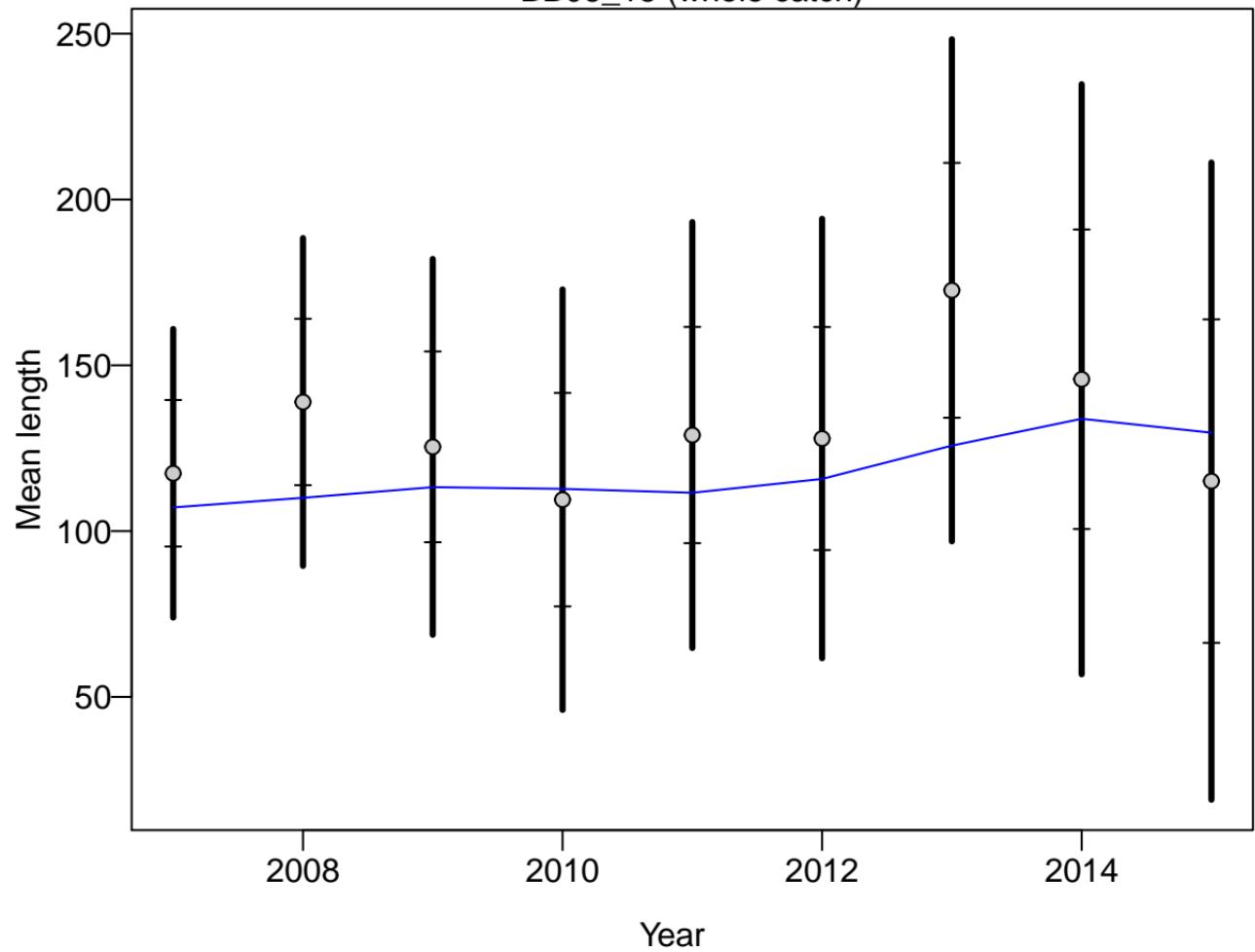
Pearson residuals, whole catch, BB06_15 (max=1.16)



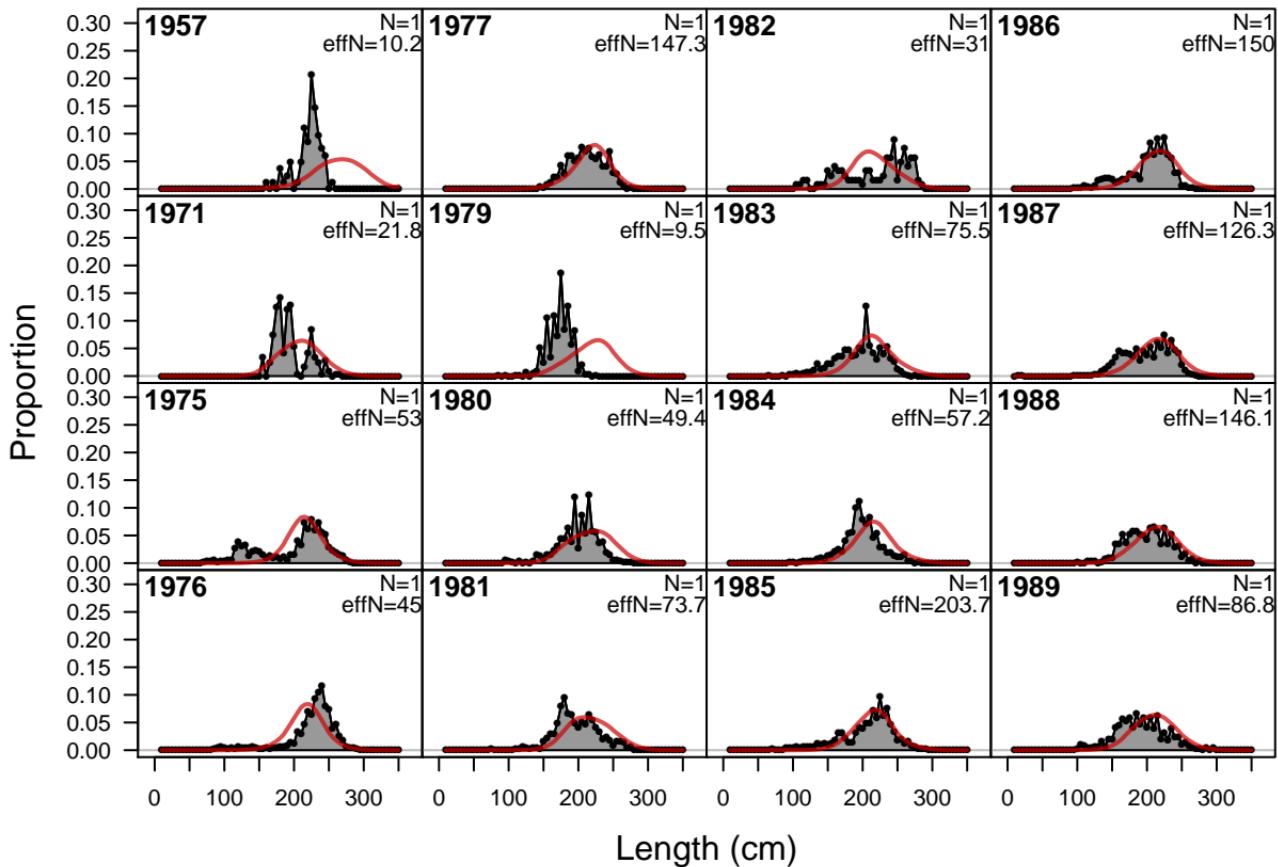
N-EffN comparison, Length comps, whole catch, BB06_15



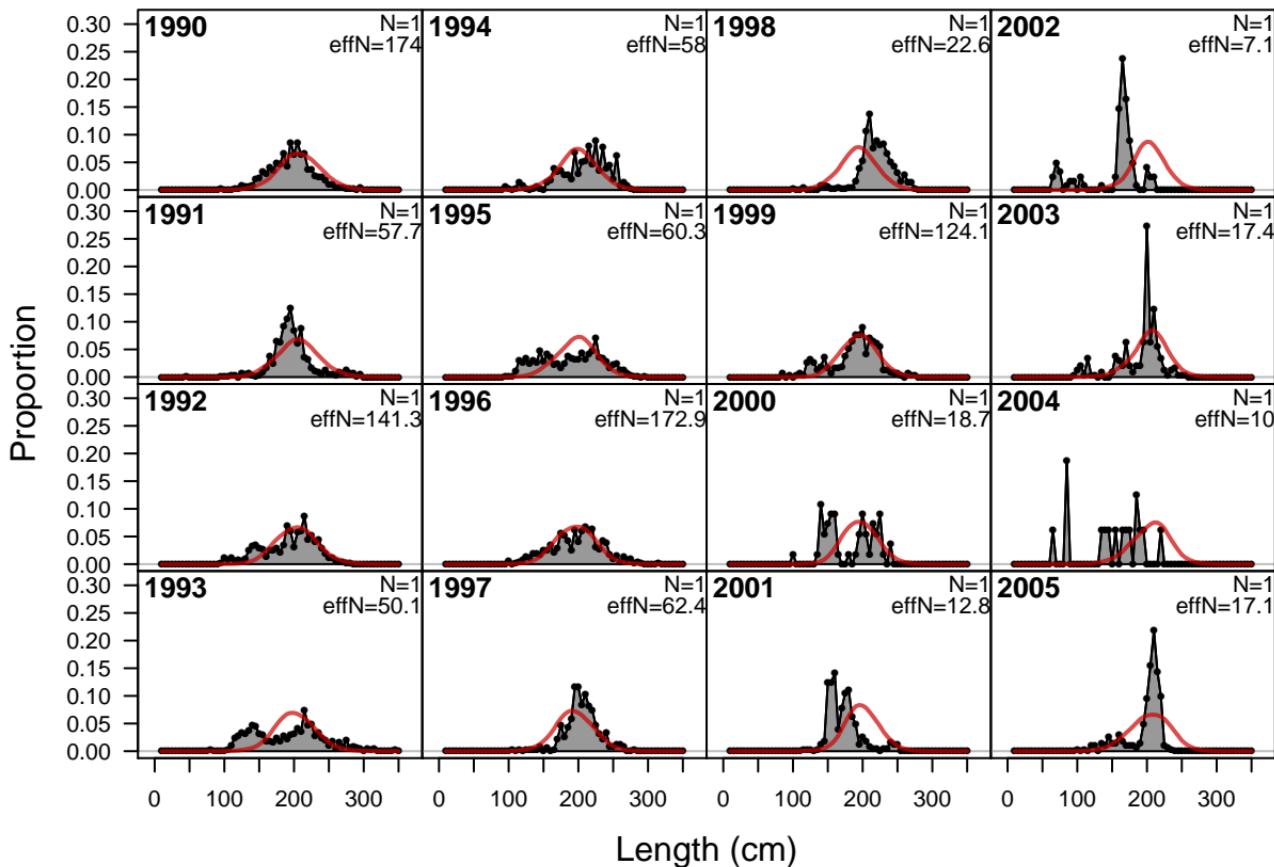
BB06_15 (whole catch)



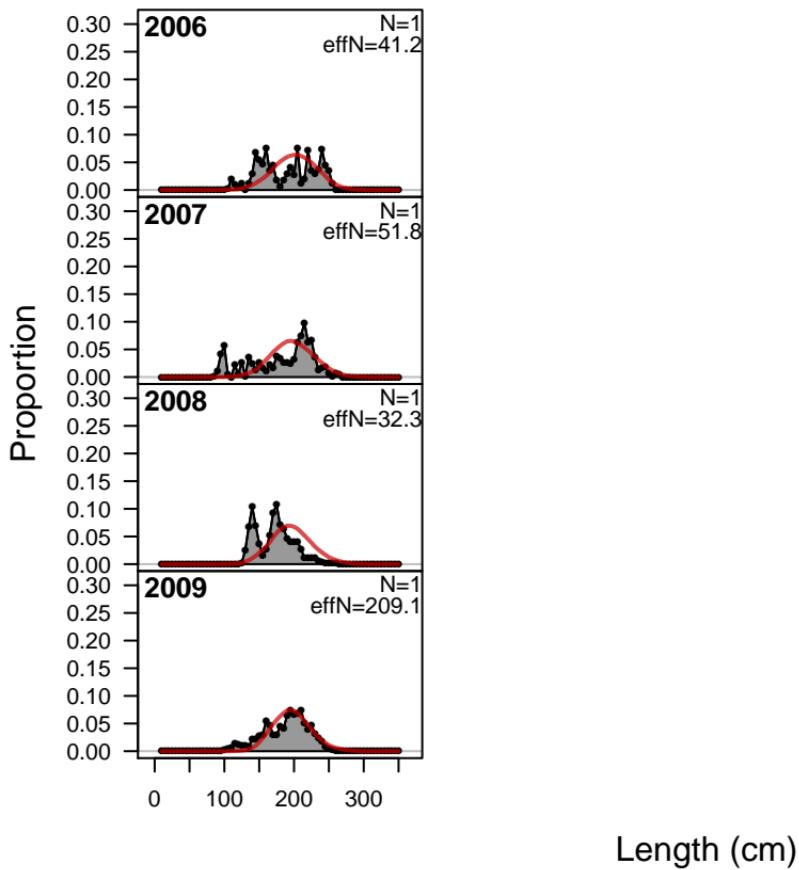
Length comps, whole catch, LL1



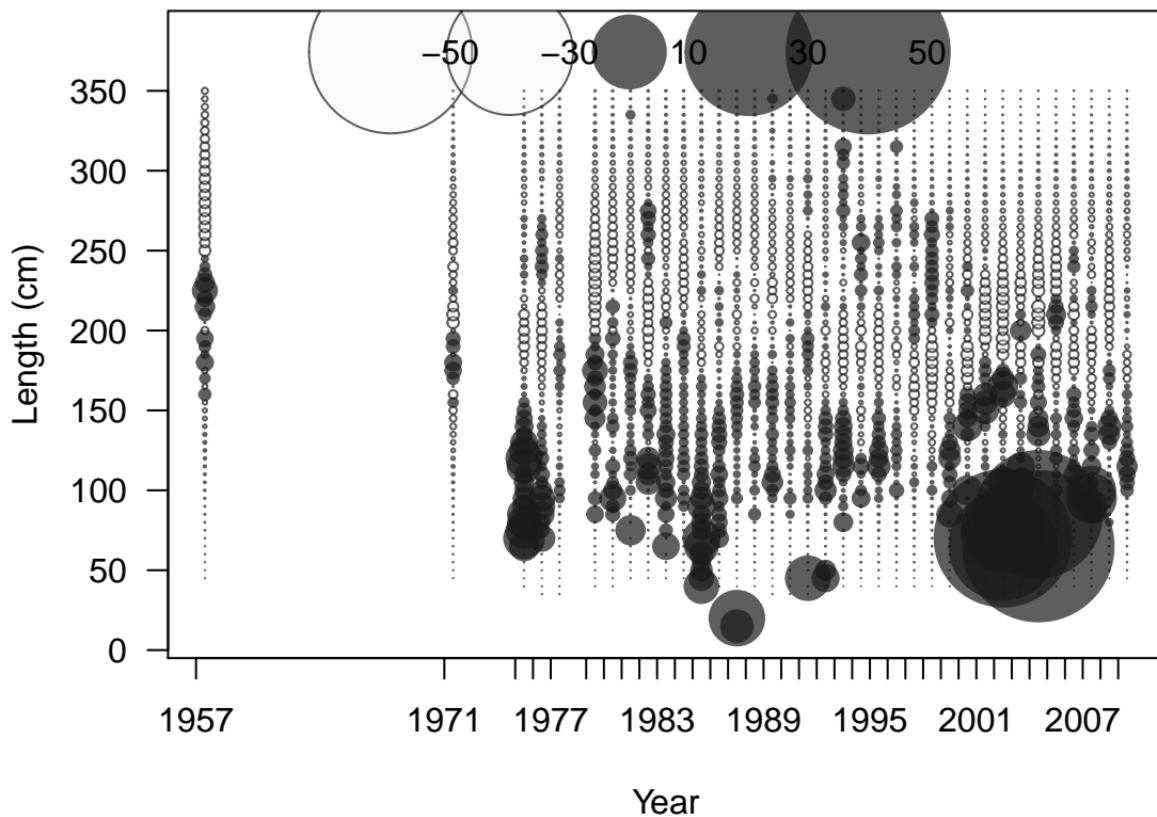
Length comps, whole catch, LL1



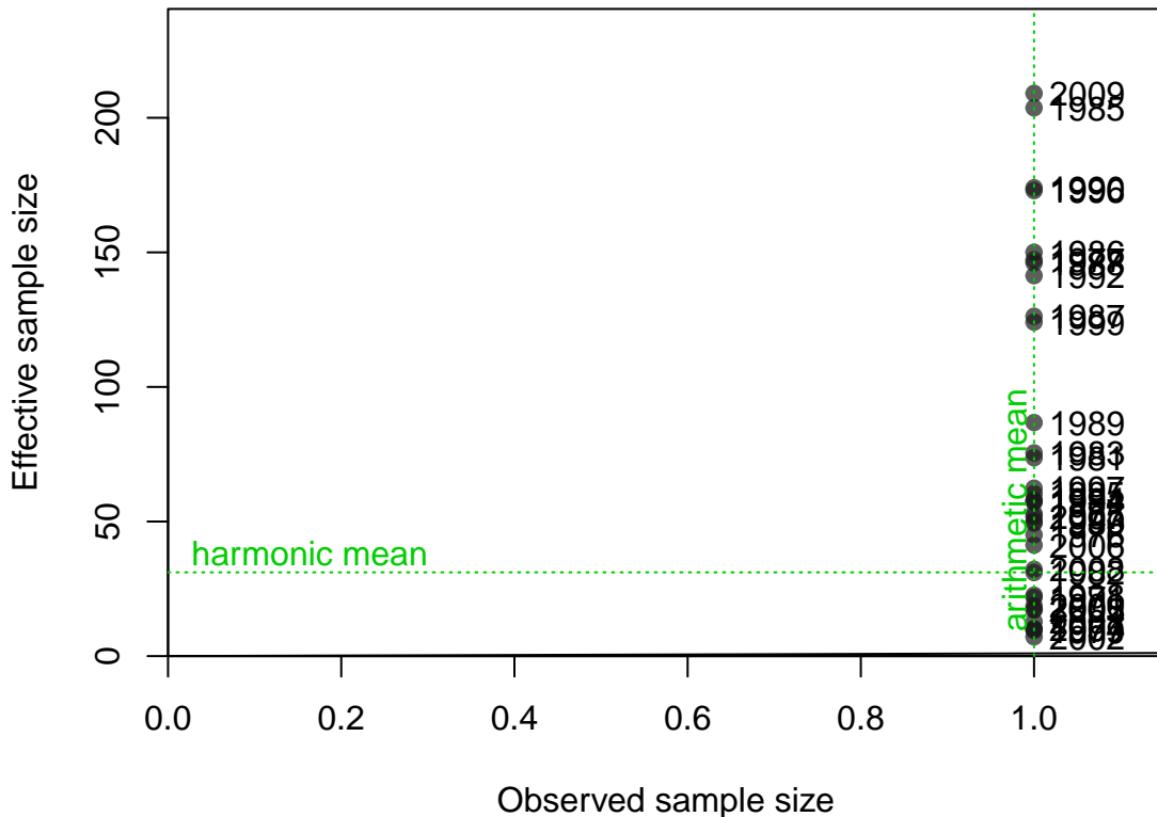
Length comps, whole catch, LL1



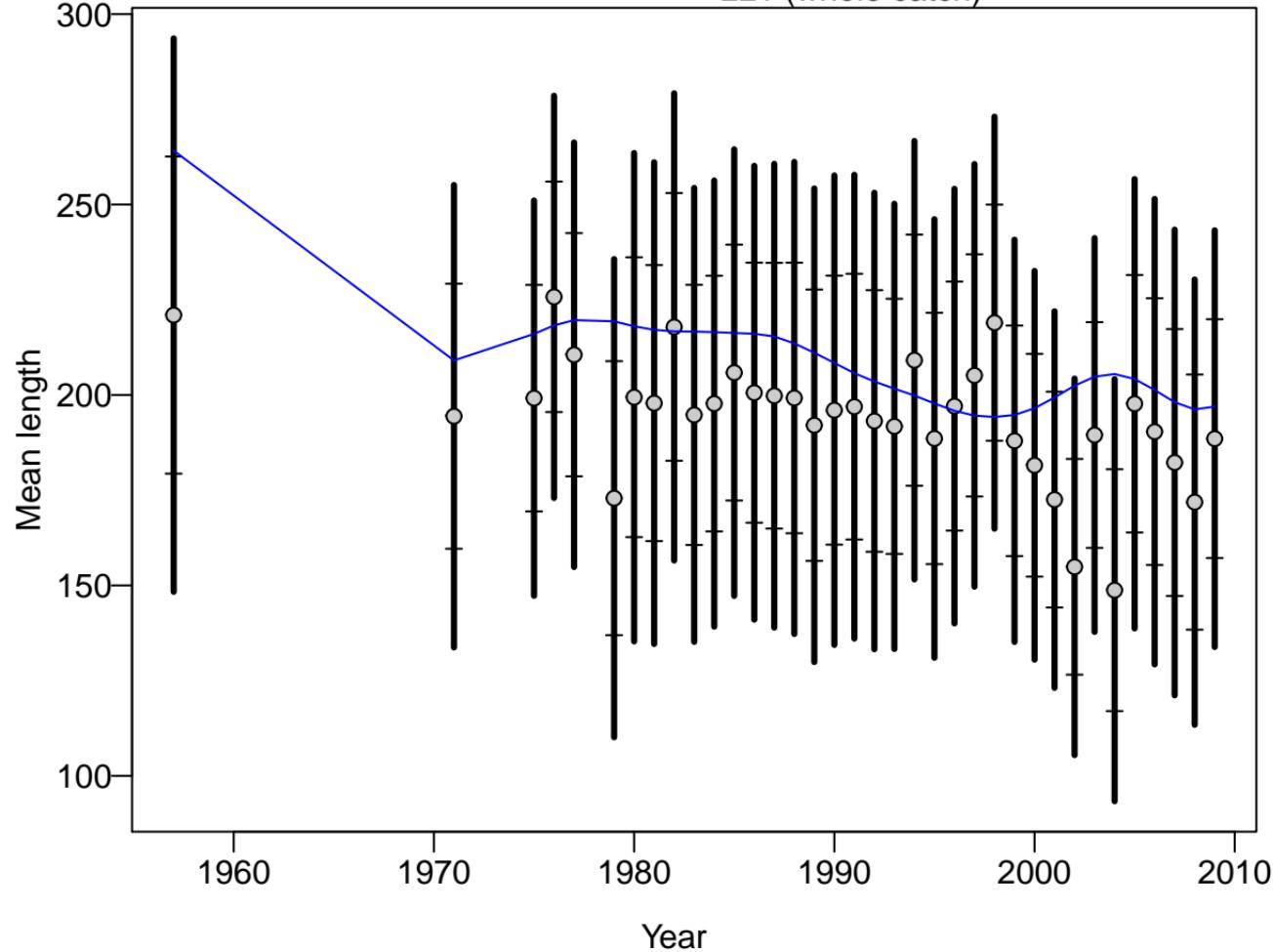
Pearson residuals, whole catch, LL1 (max=42.45)



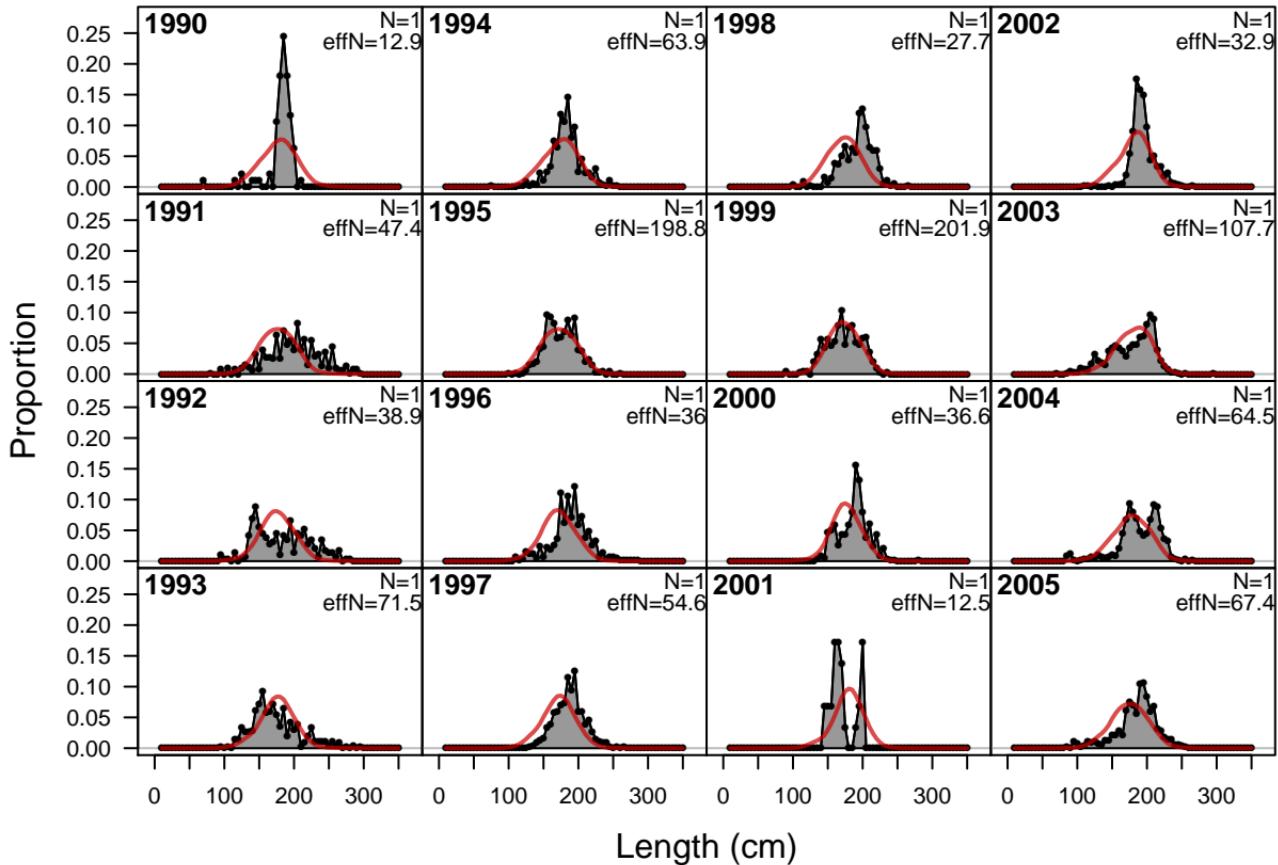
N-EffN comparison, Length comps, whole catch, LL1



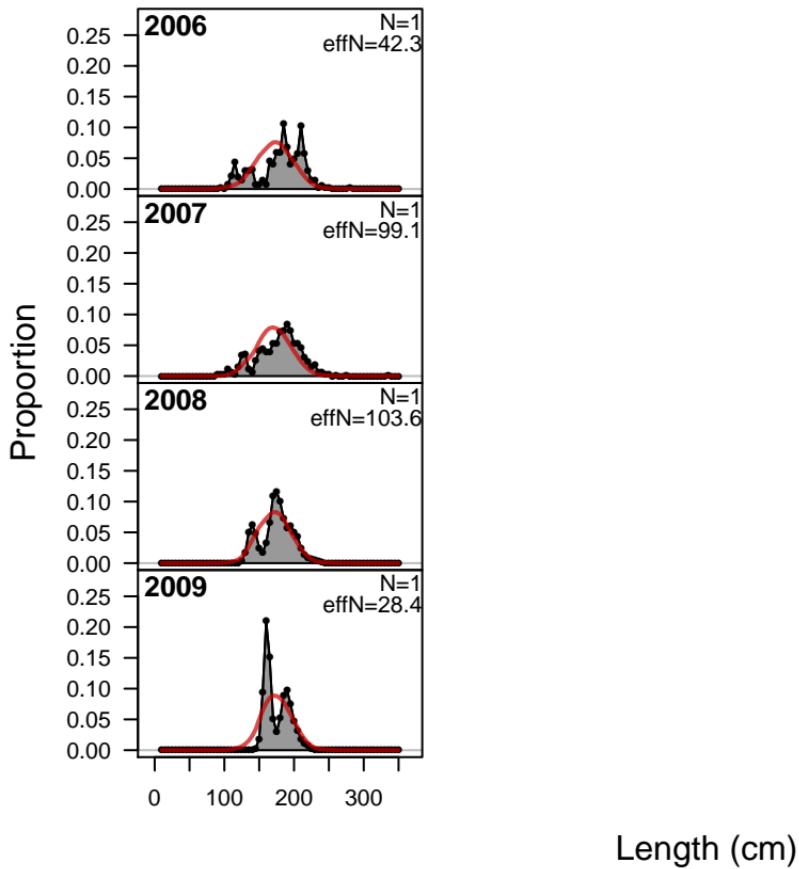
LL1 (whole catch)



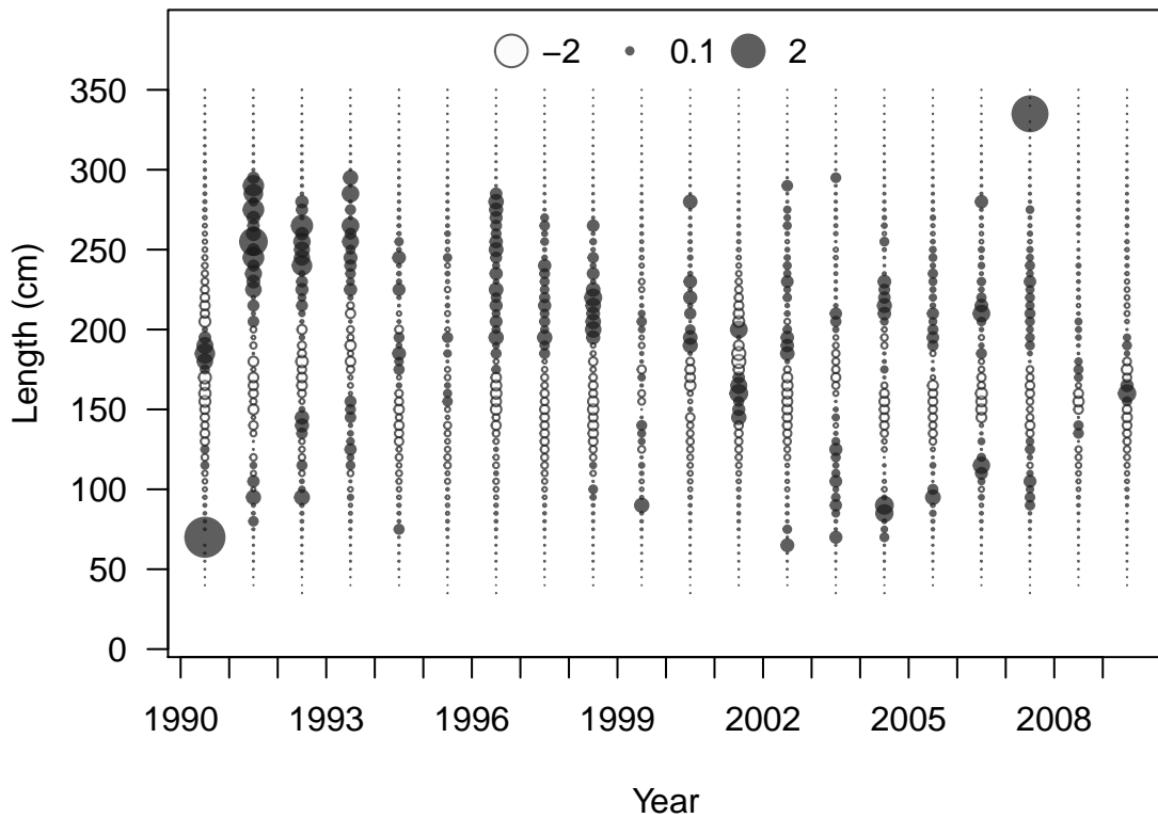
Length comps, whole catch, LL2



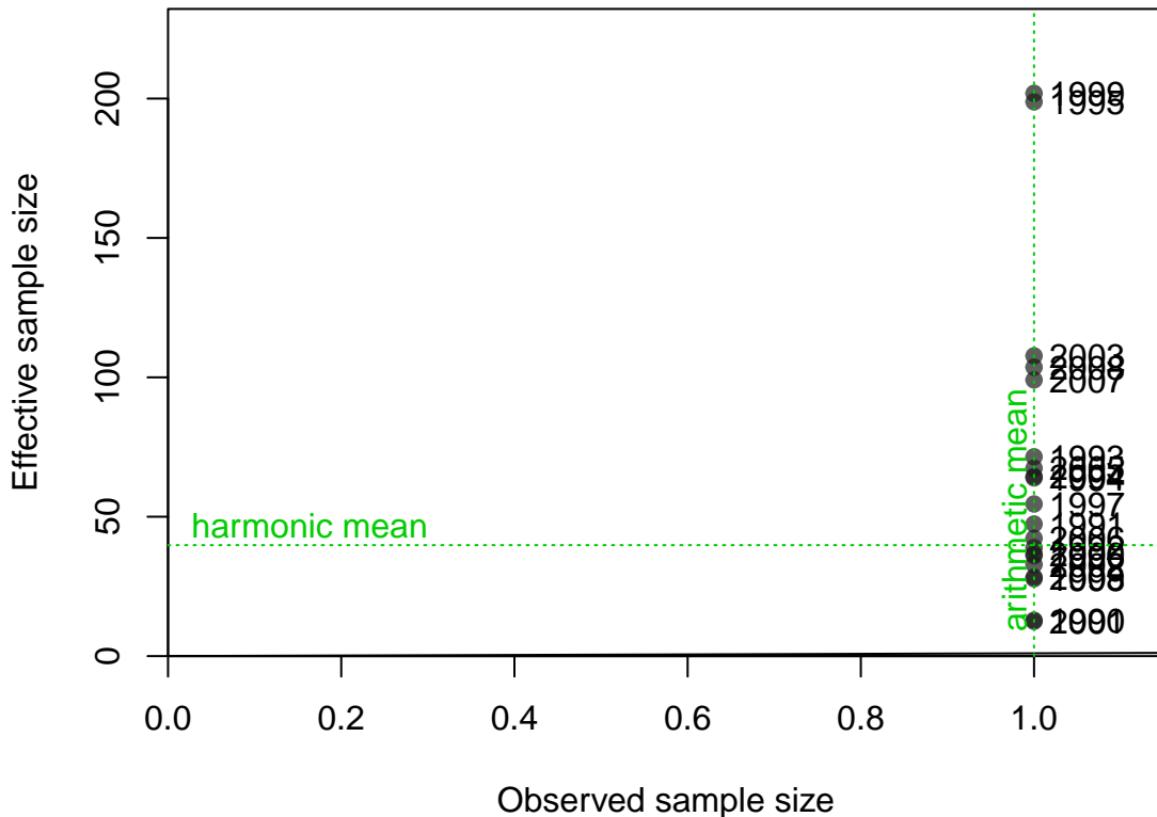
Length comps, whole catch, LL2



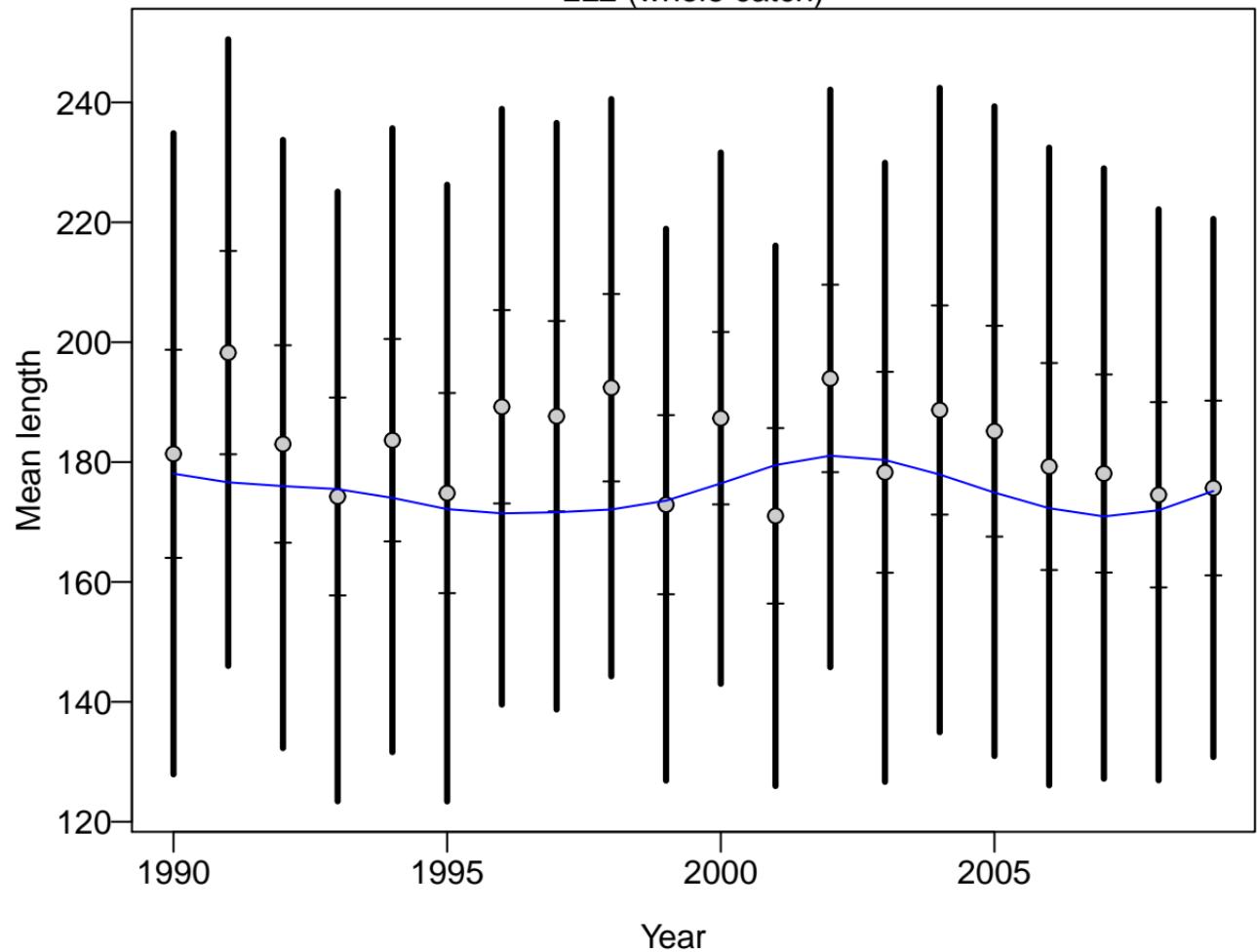
Pearson residuals, whole catch, LL2 (max=2.87)



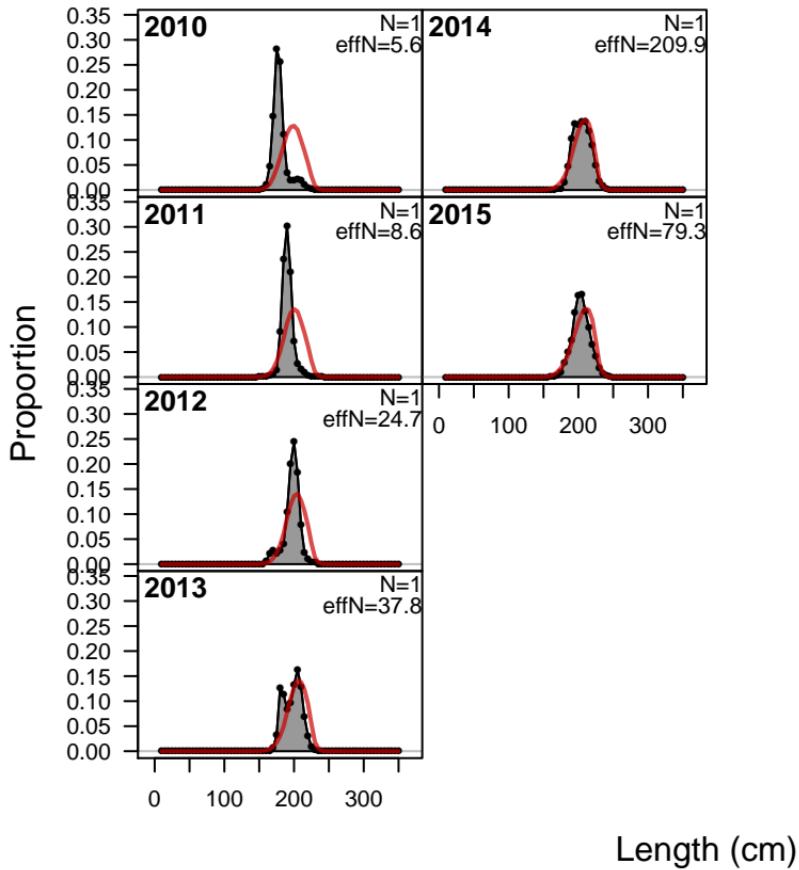
N-EffN comparison, Length comps, whole catch, LL2



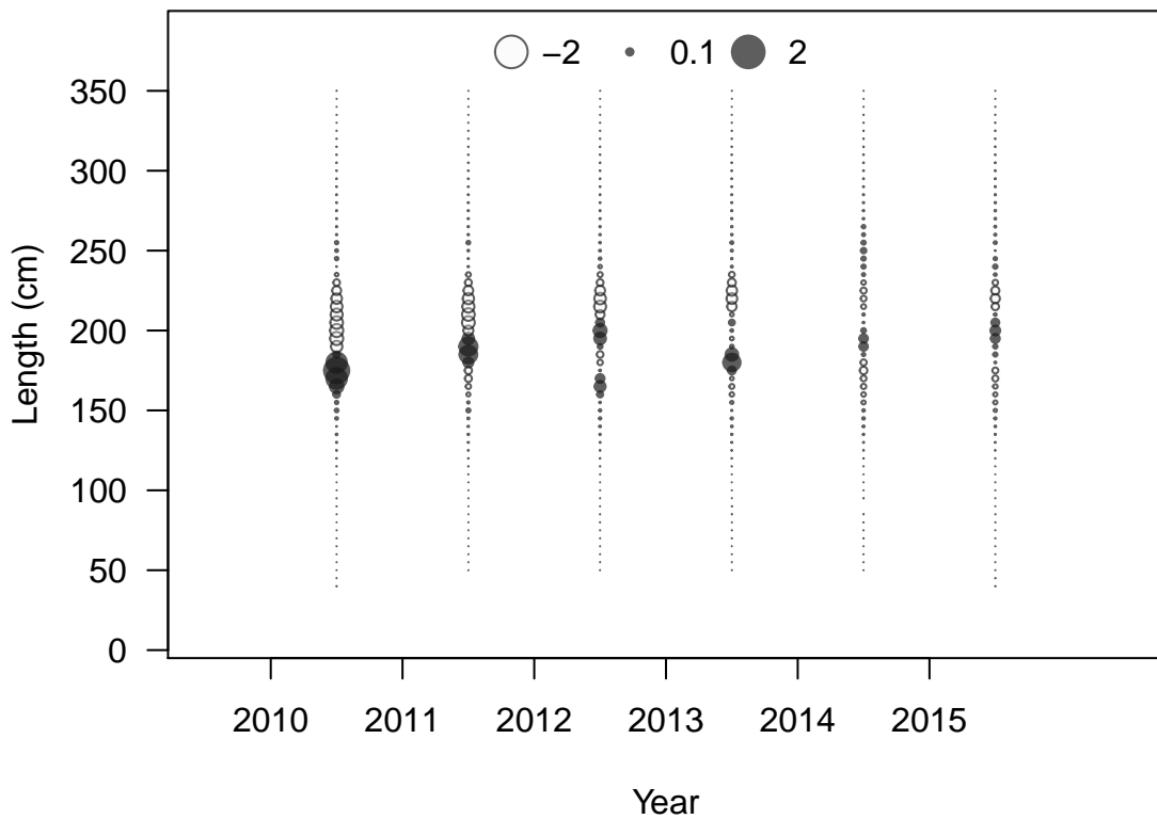
LL2 (whole catch)



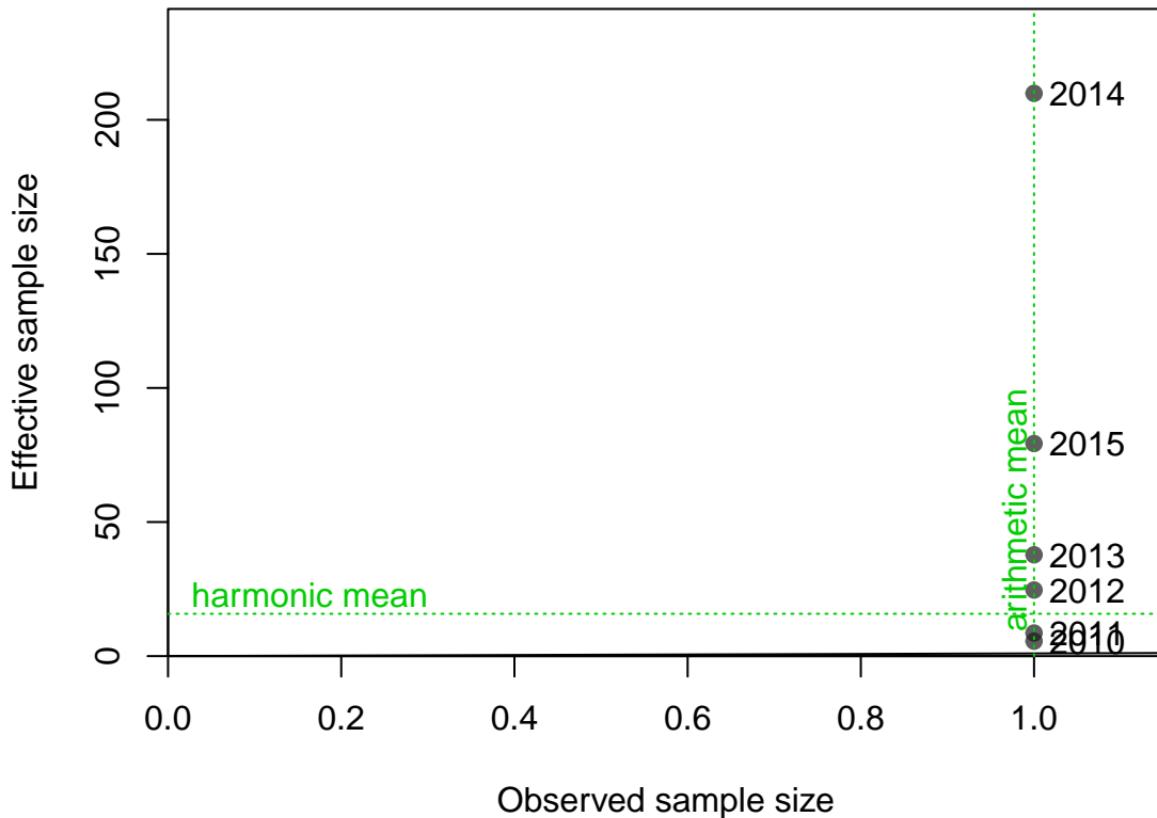
Length comps, whole catch, LL3



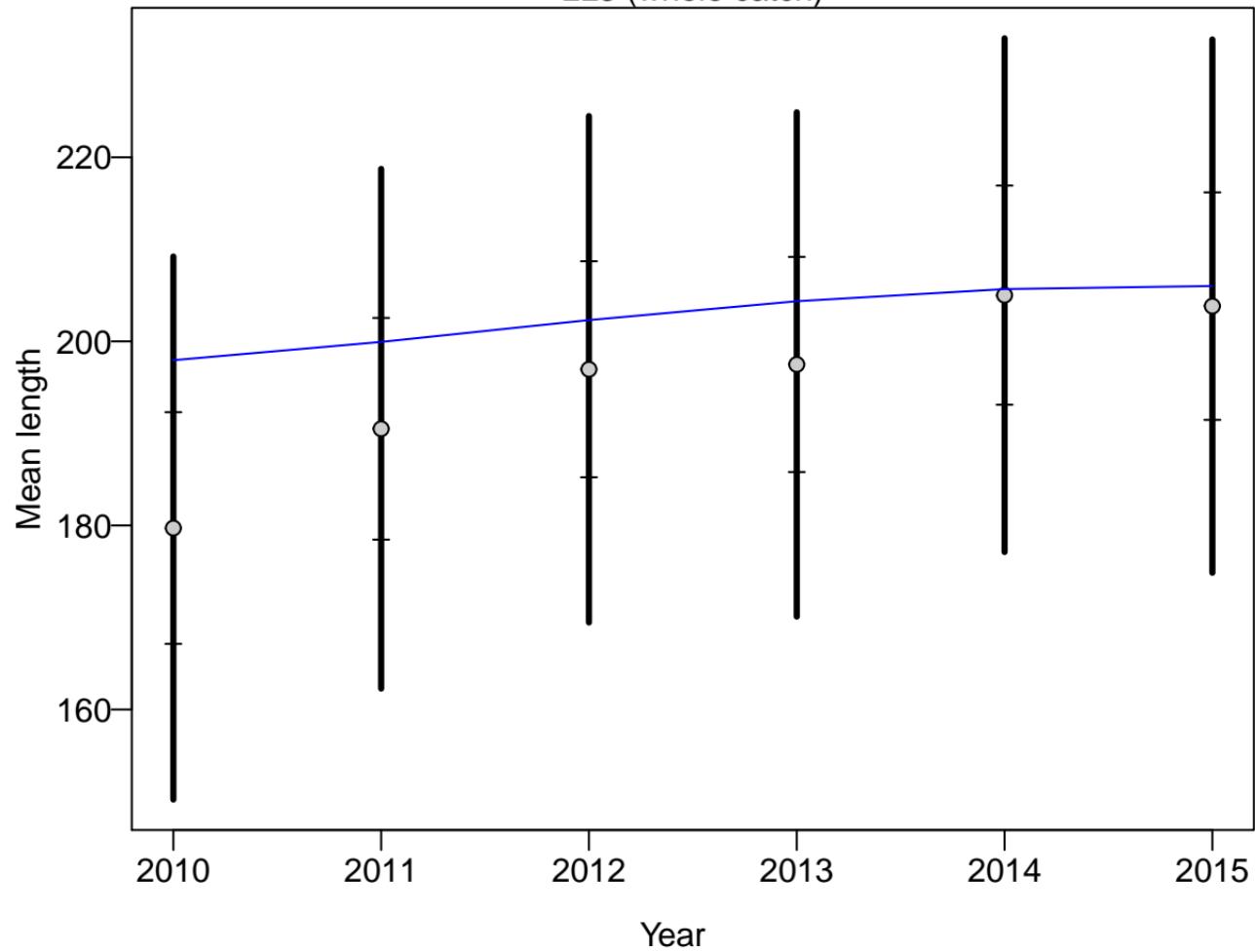
Pearson residuals, whole catch, LL3 (max=1.18)



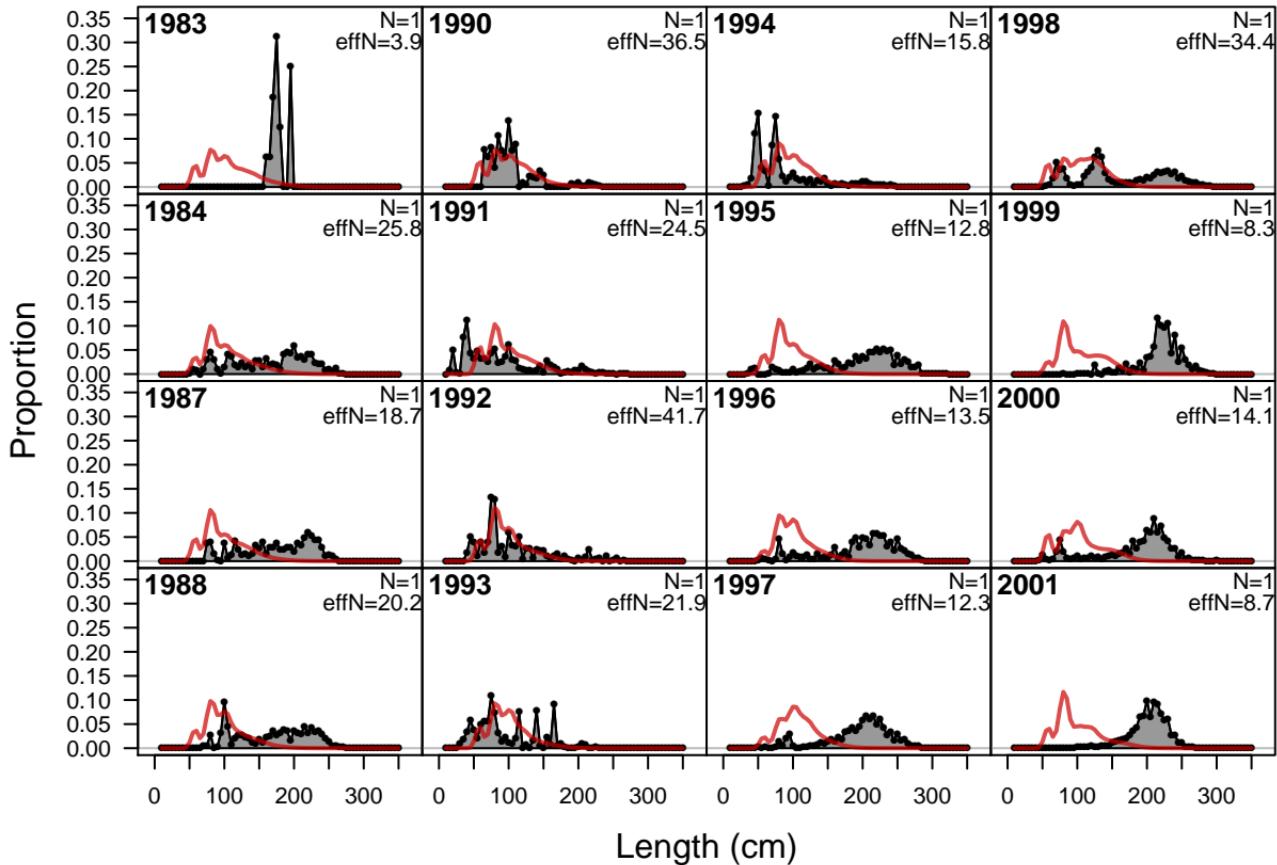
N-EffN comparison, Length comps, whole catch, LL3



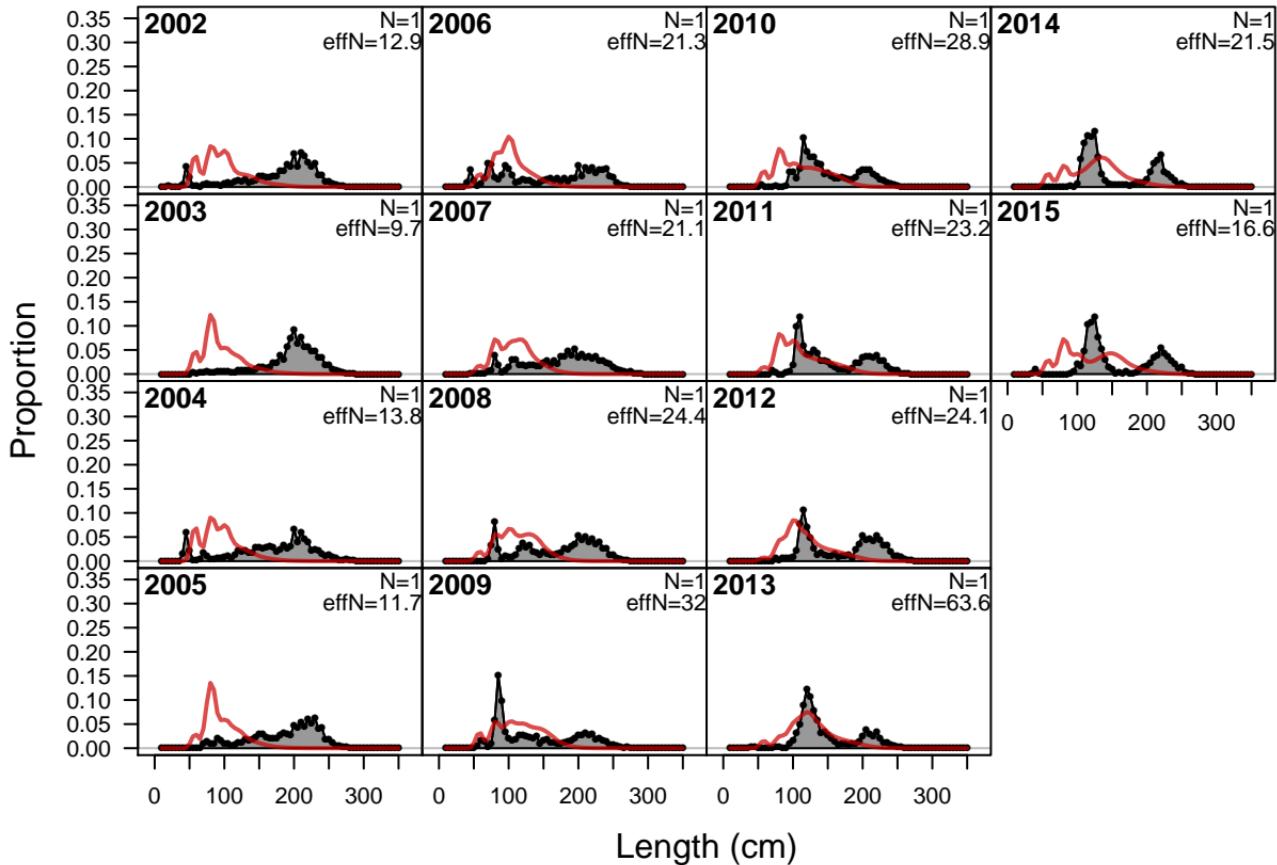
LL3 (whole catch)



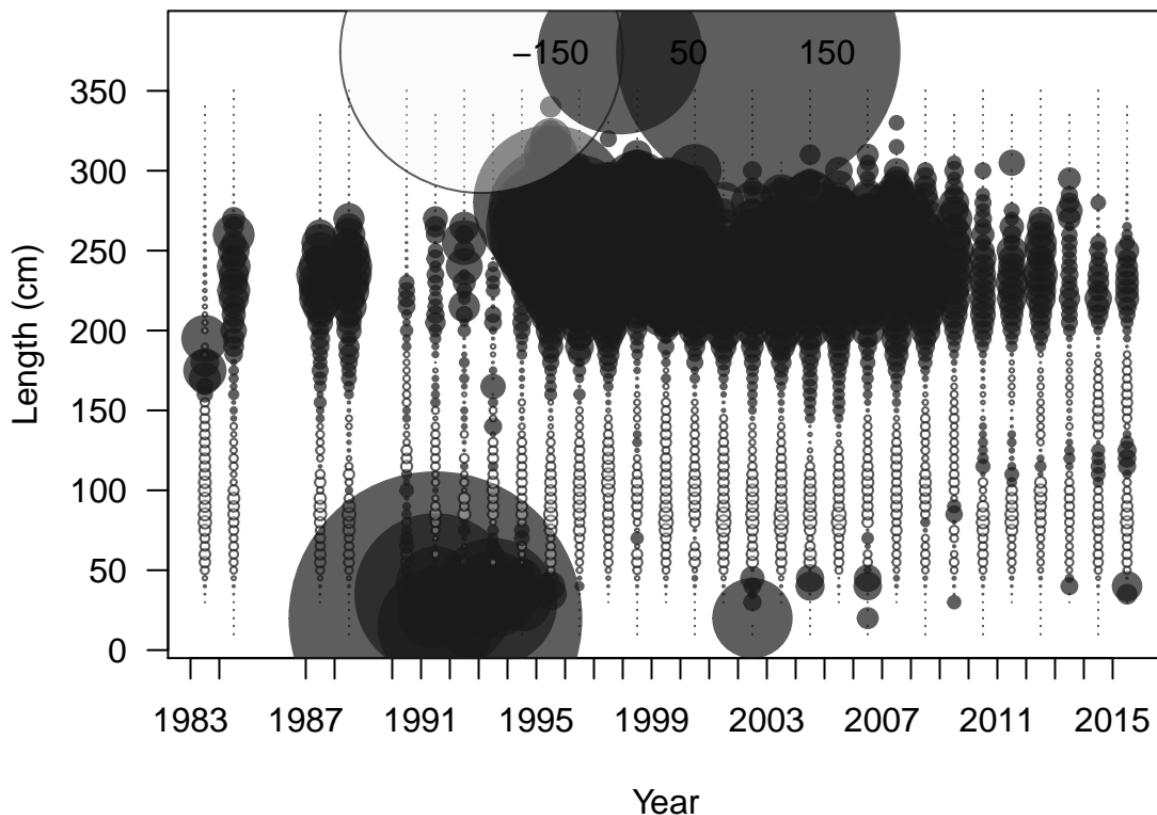
Length comps, whole catch, LL4



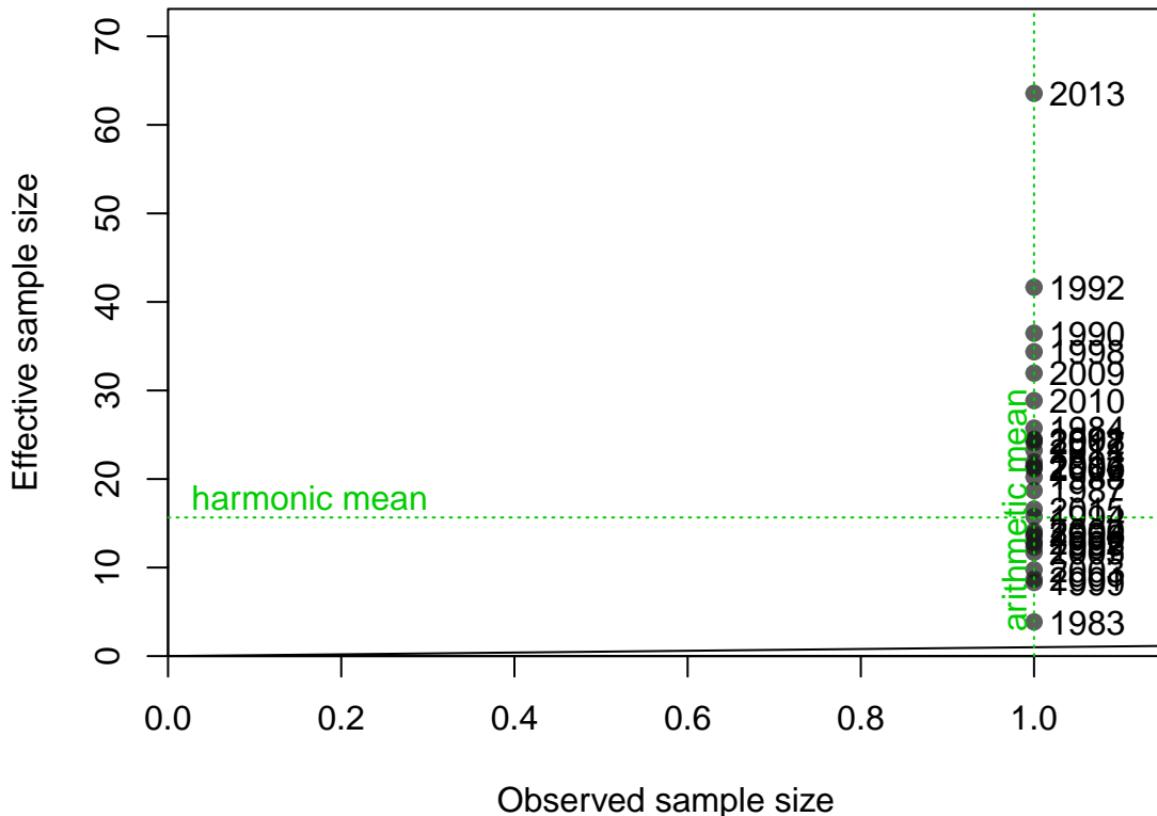
Length comps, whole catch, LL4



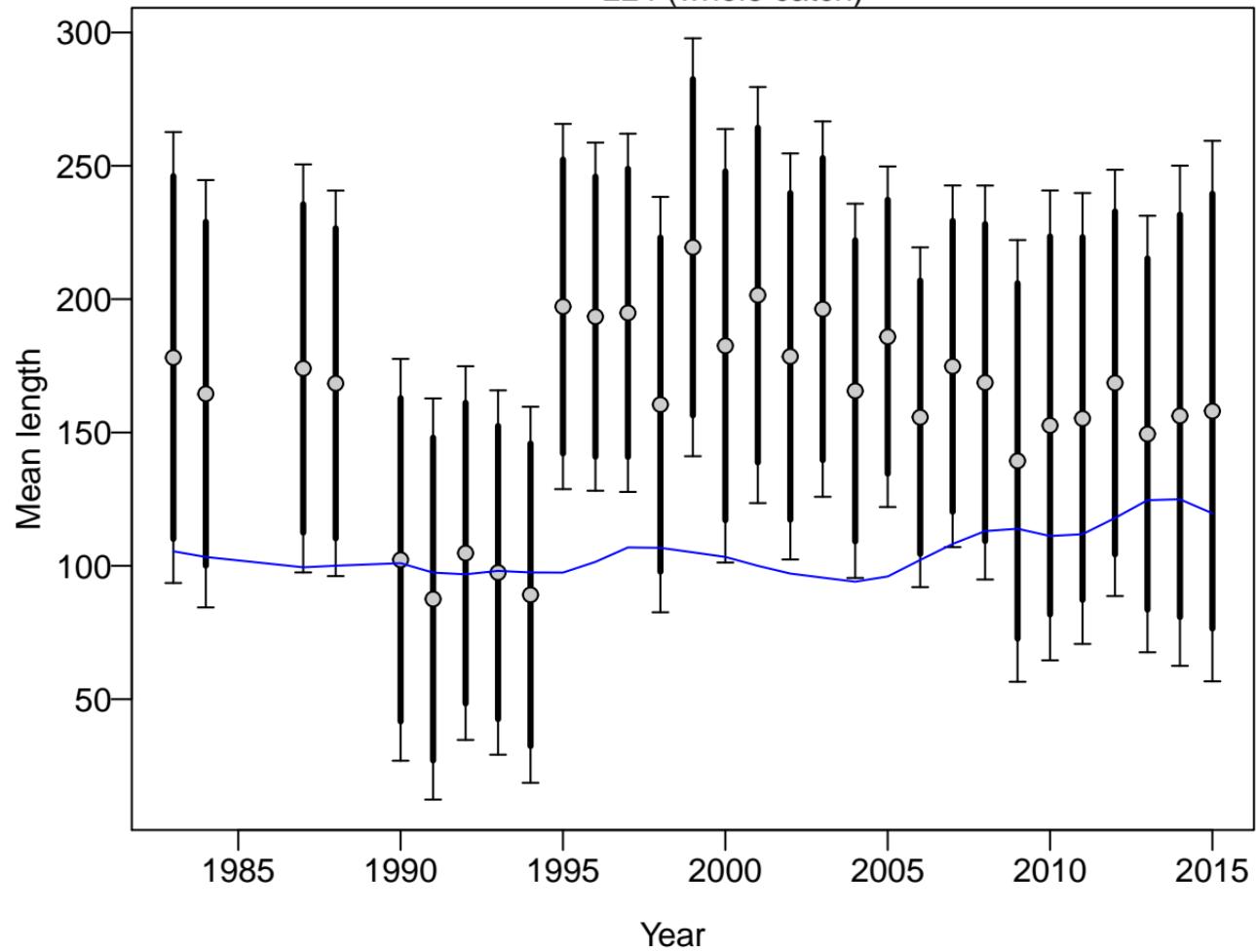
Pearson residuals, whole catch, LL4 (max=160.03)



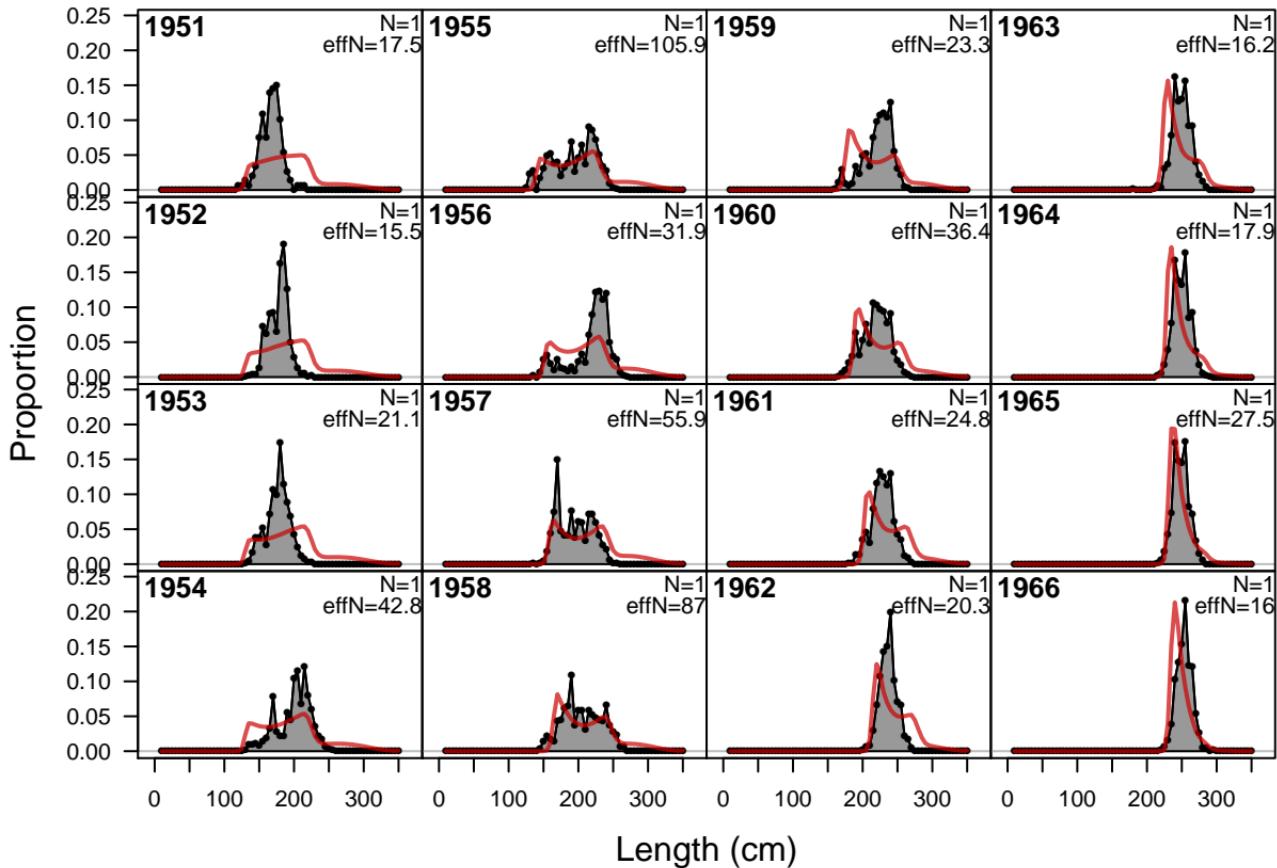
N-EffN comparison, Length comps, whole catch, LL4



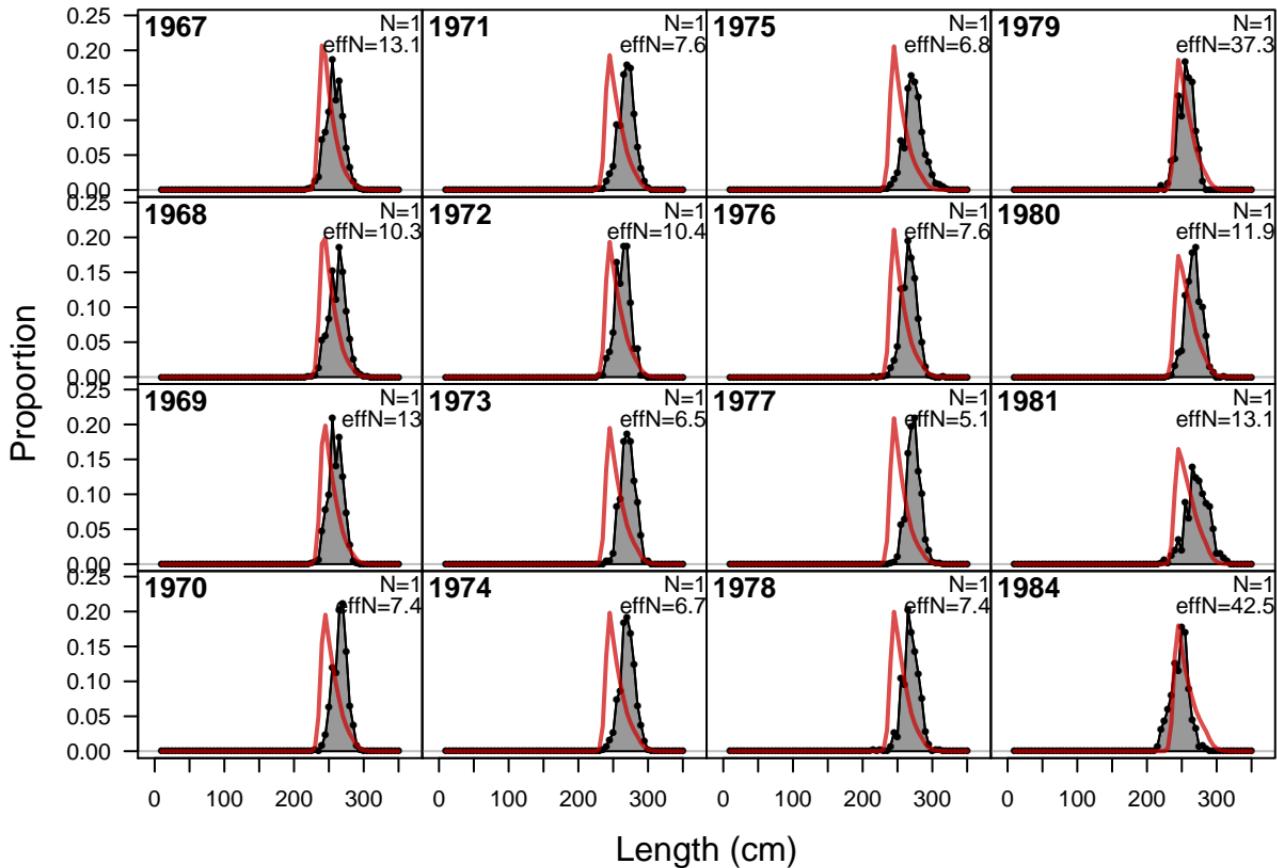
LL4 (whole catch)



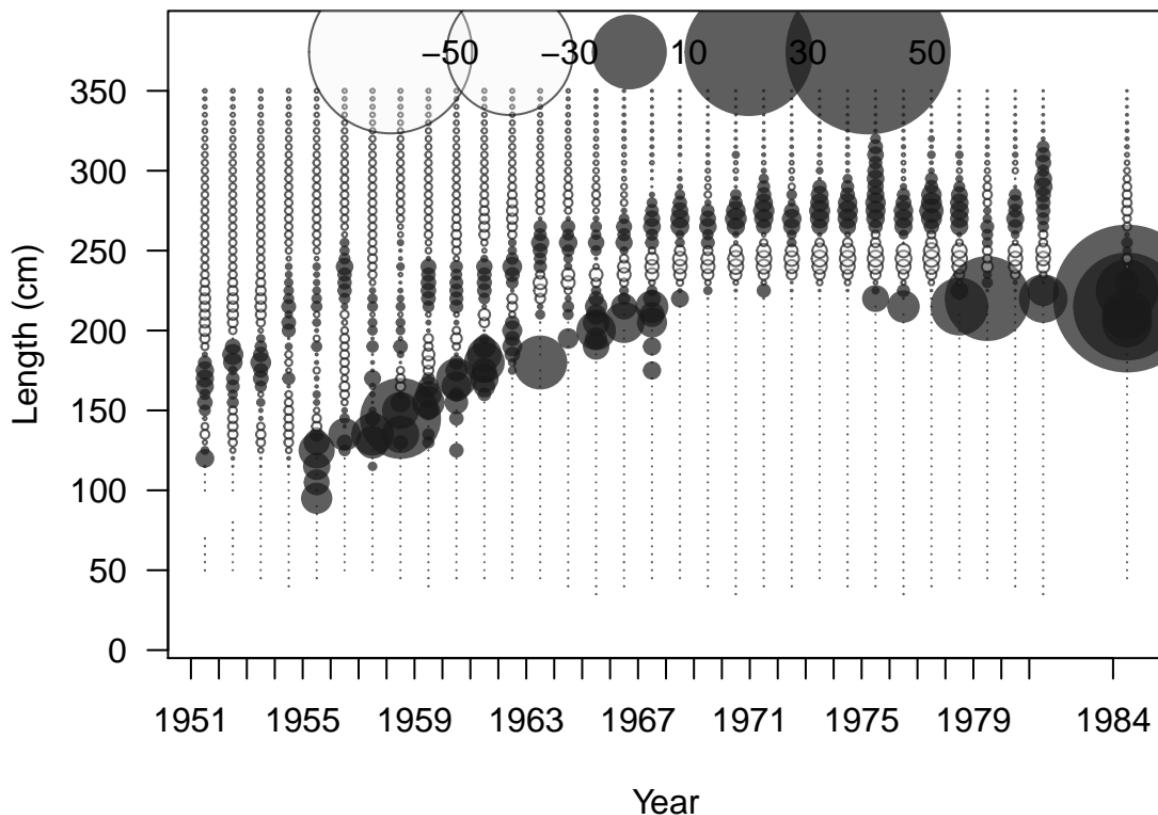
Length comps, whole catch, PS_NOR



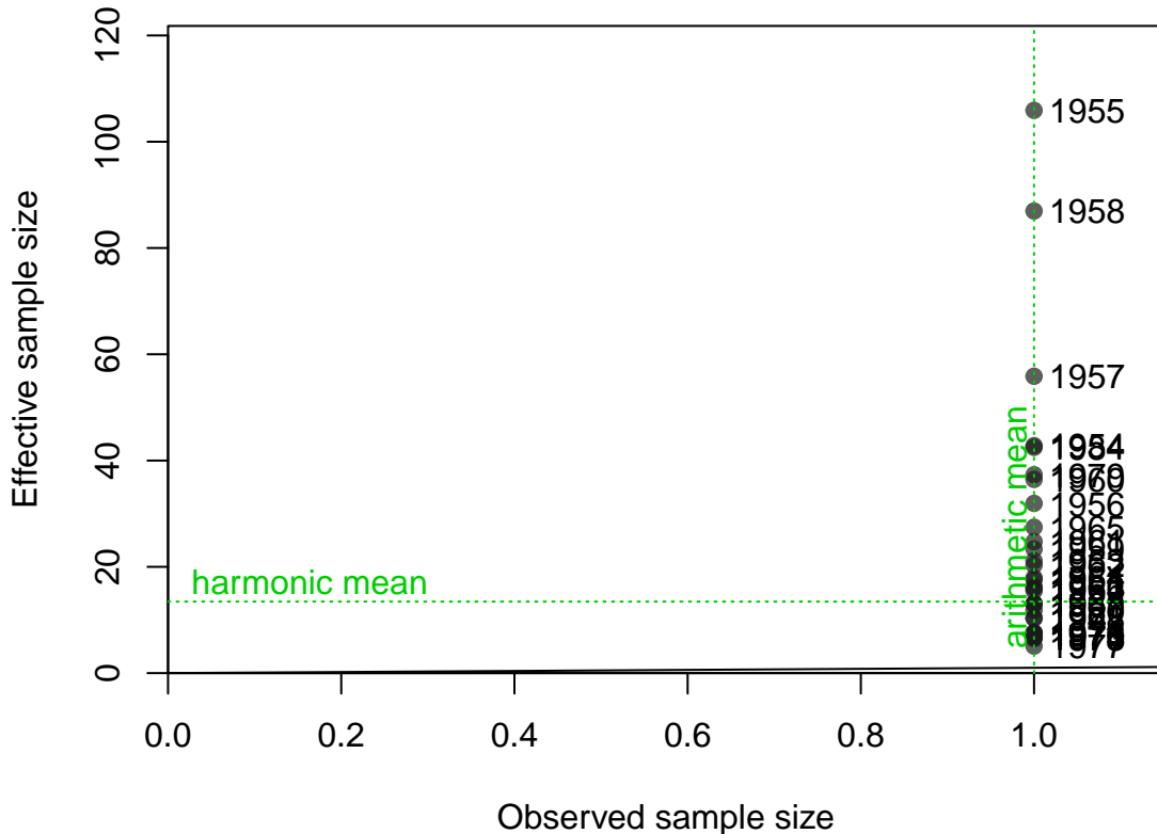
Length comps, whole catch, PS_NOR



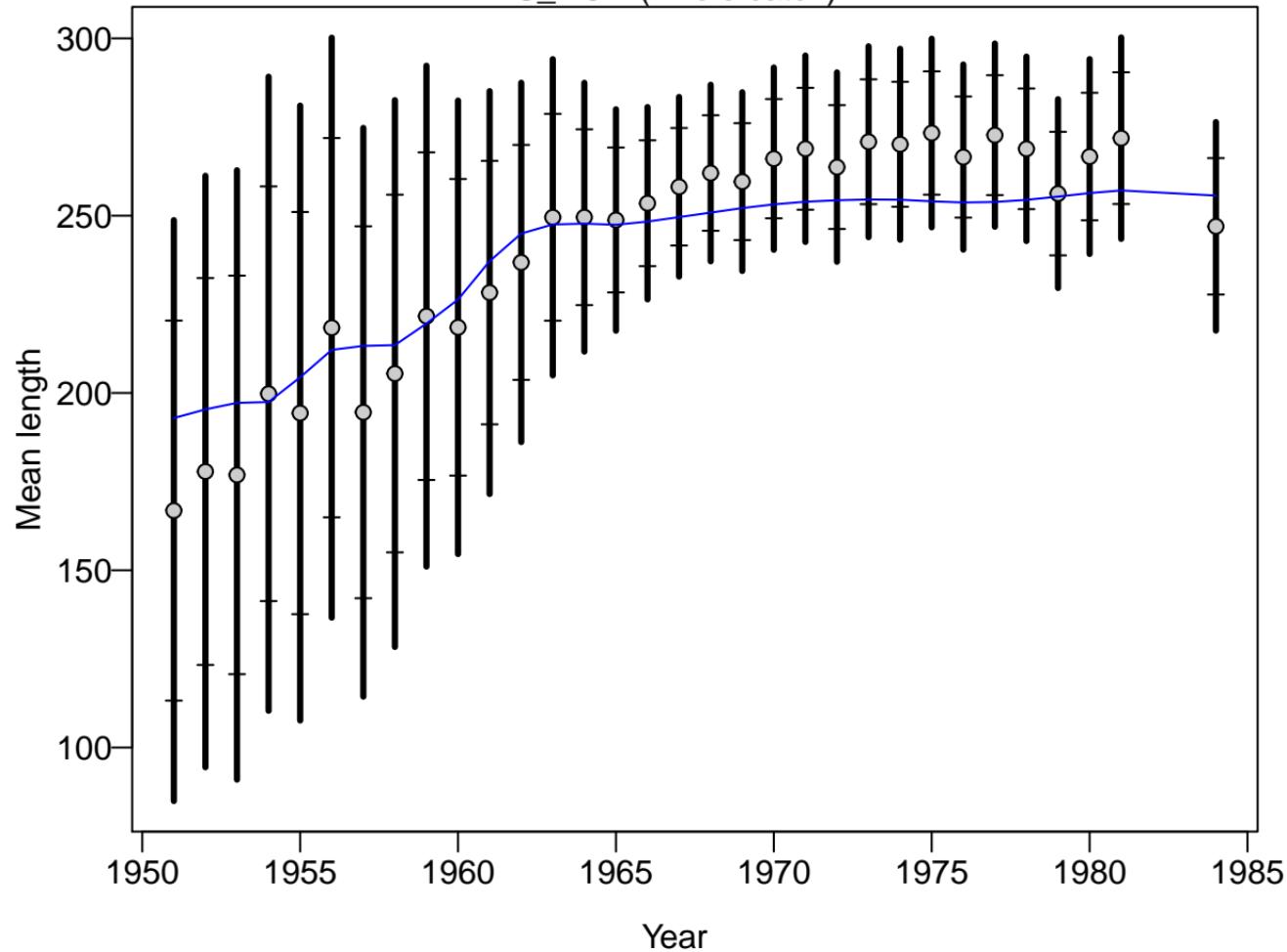
Pearson residuals, whole catch, PS_NOR (max=40)



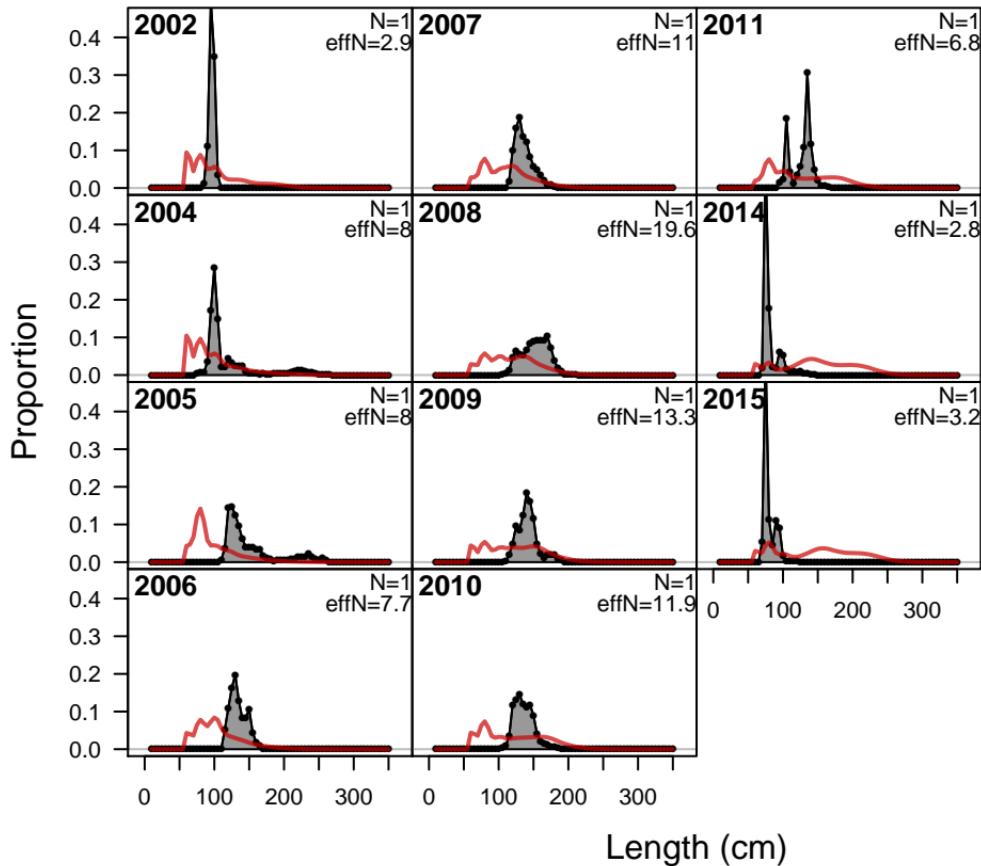
N-EffN comparison, Length comps, whole catch, PS_NOR



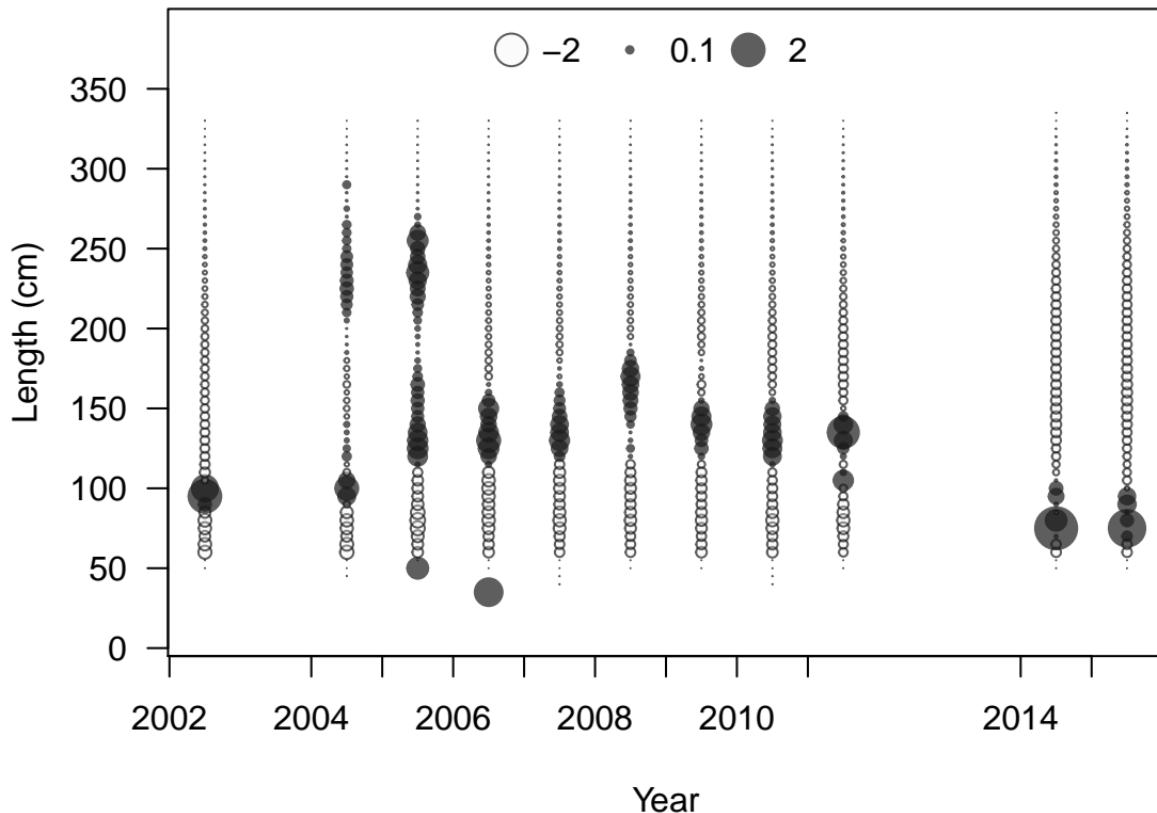
PS_NOR (whole catch)



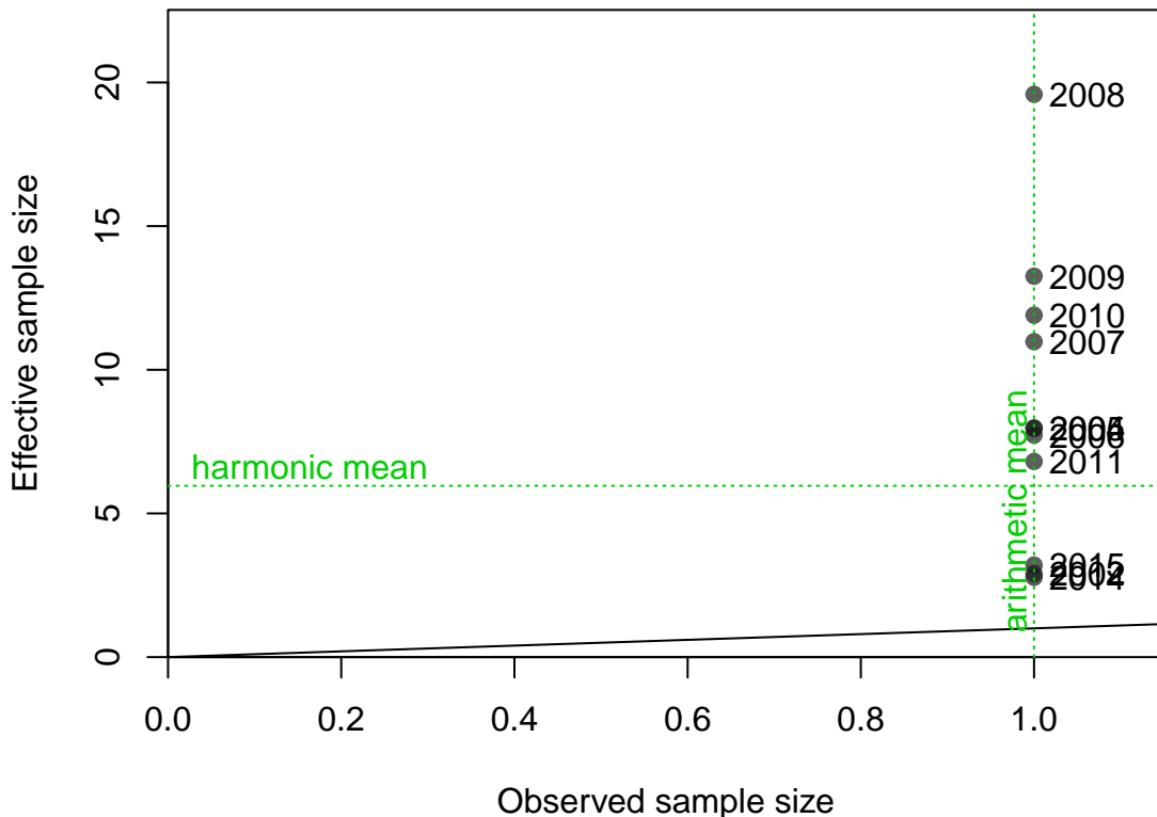
Length comps, whole catch, PS_CRO



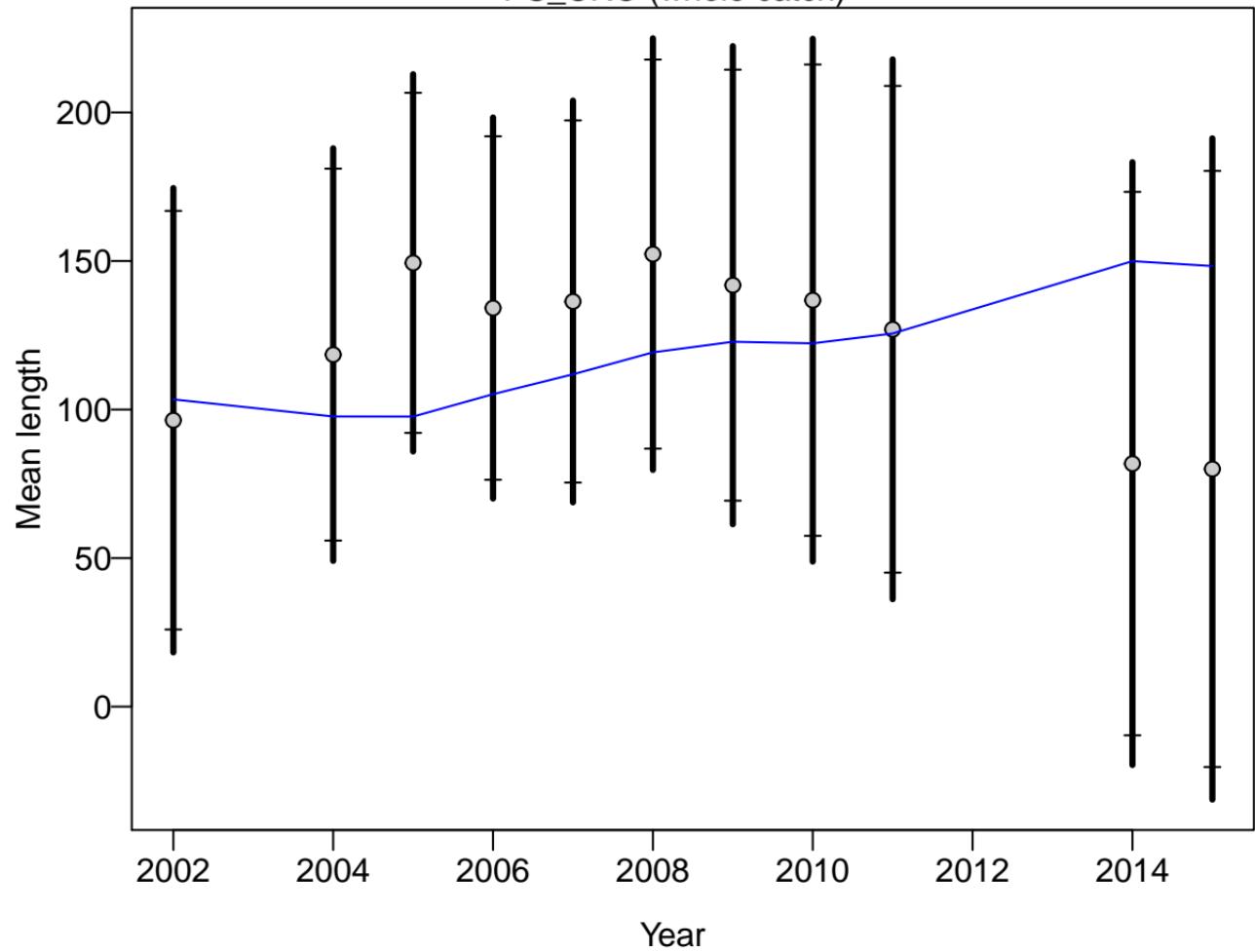
Pearson residuals, whole catch, PS_CRO (max=3.31)



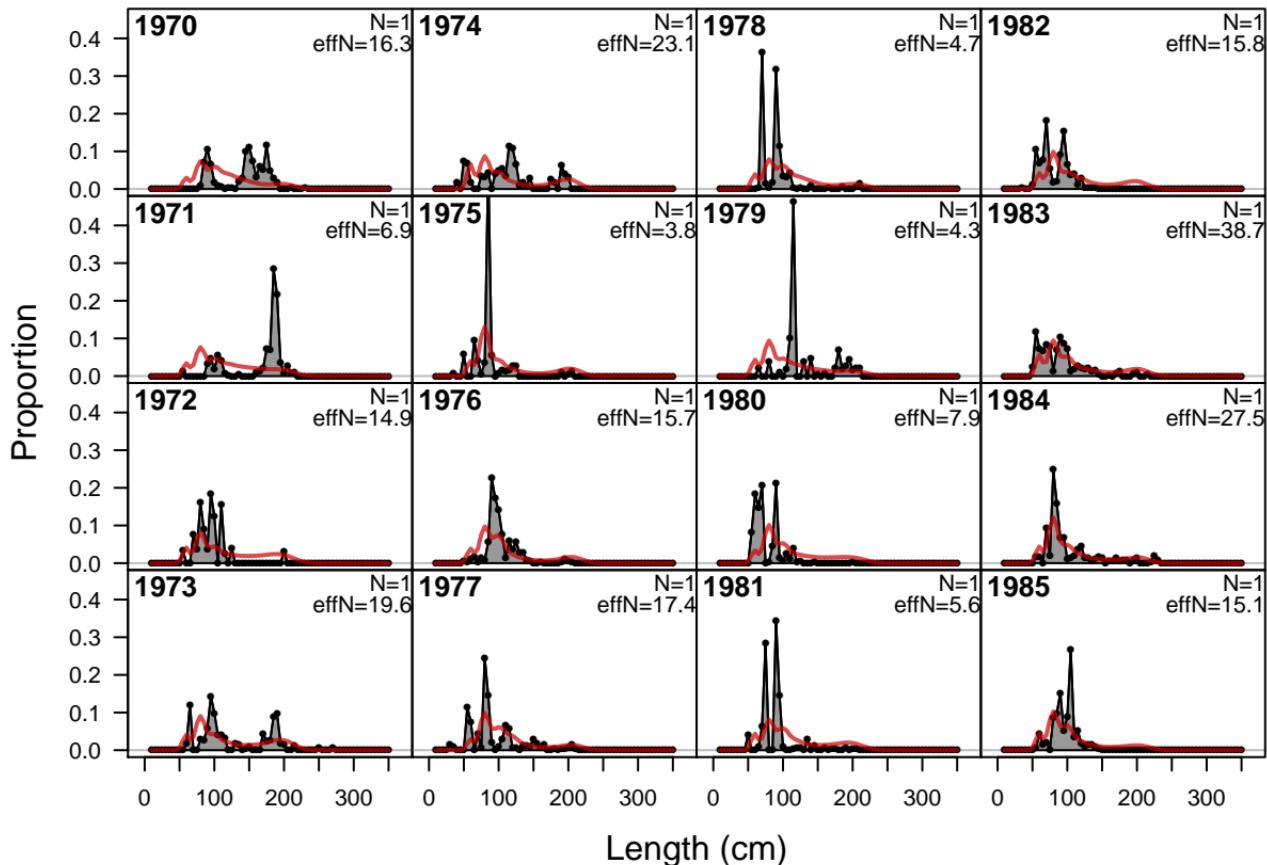
N-EffN comparison, Length comps, whole catch, PS_CRO



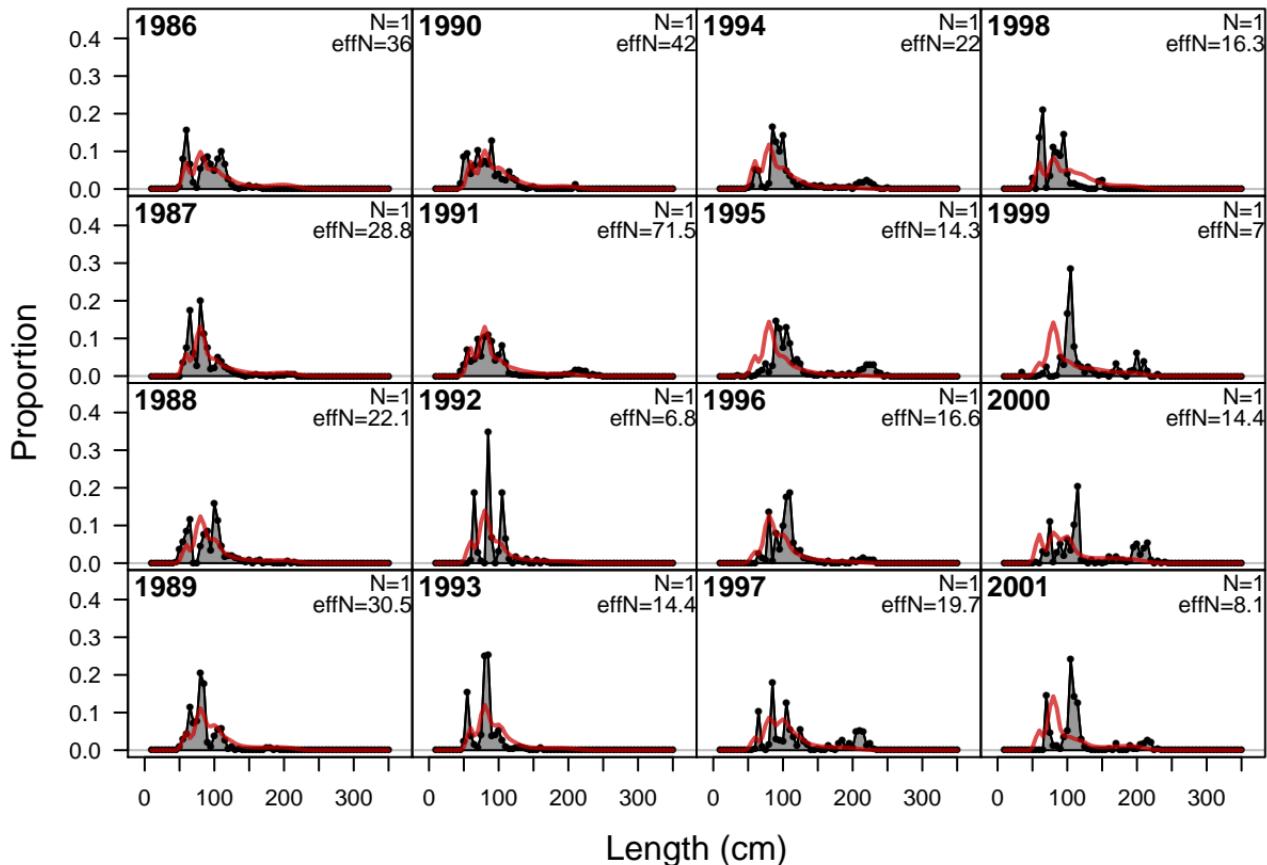
PS_CRO (whole catch)



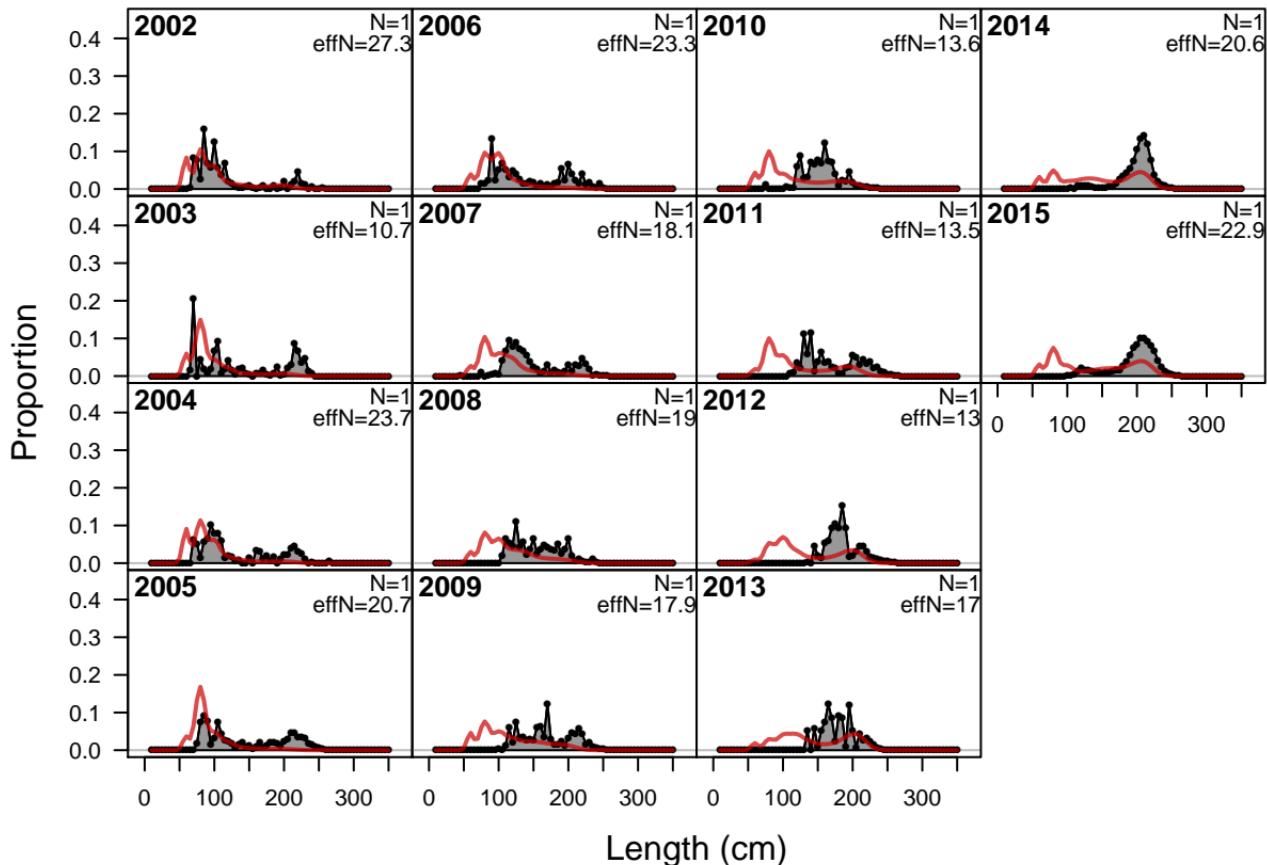
Length comps, whole catch, PS_FR



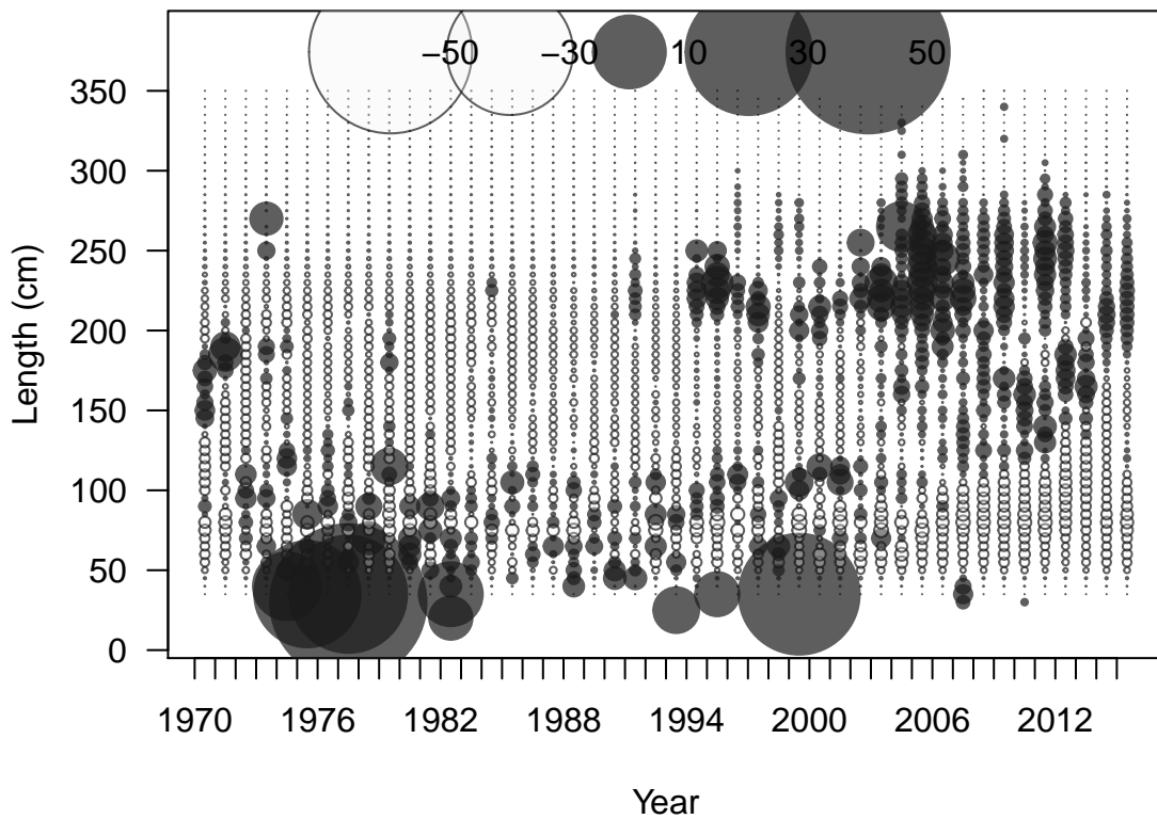
Length comps, whole catch, PS_FR



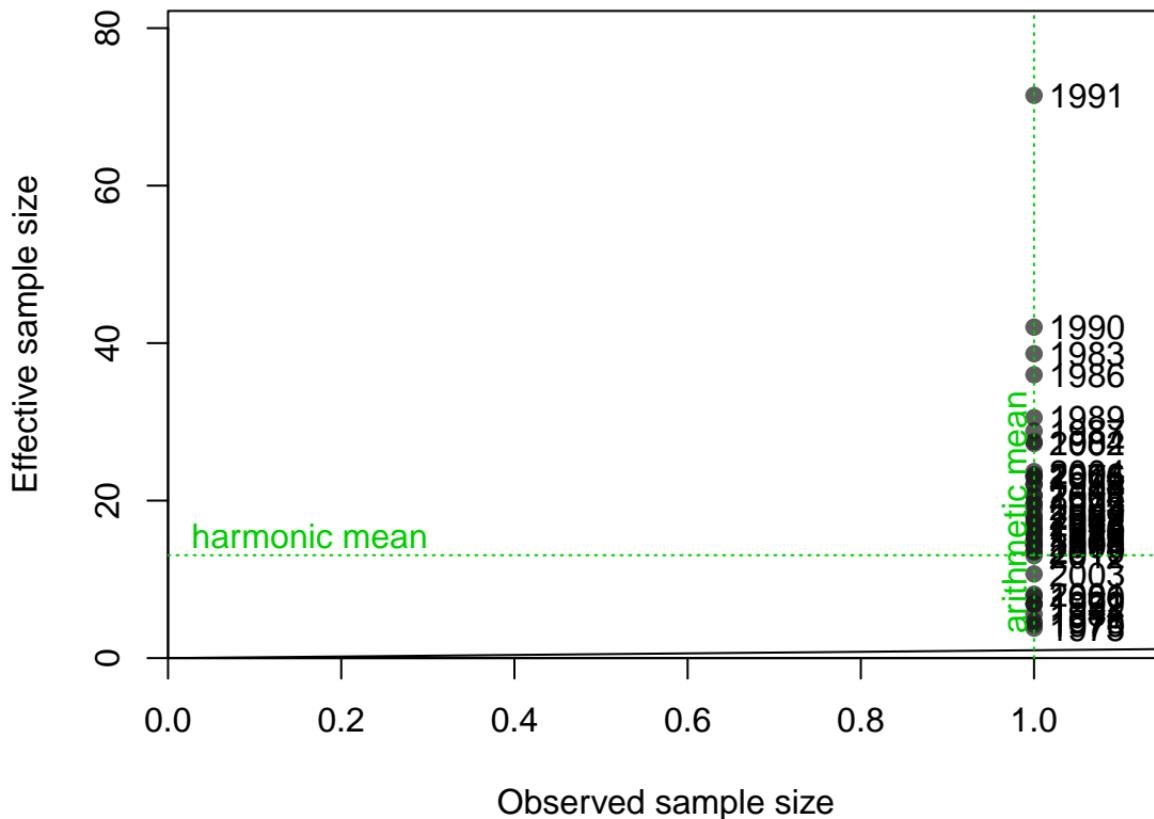
Length comps, whole catch, PS_FR



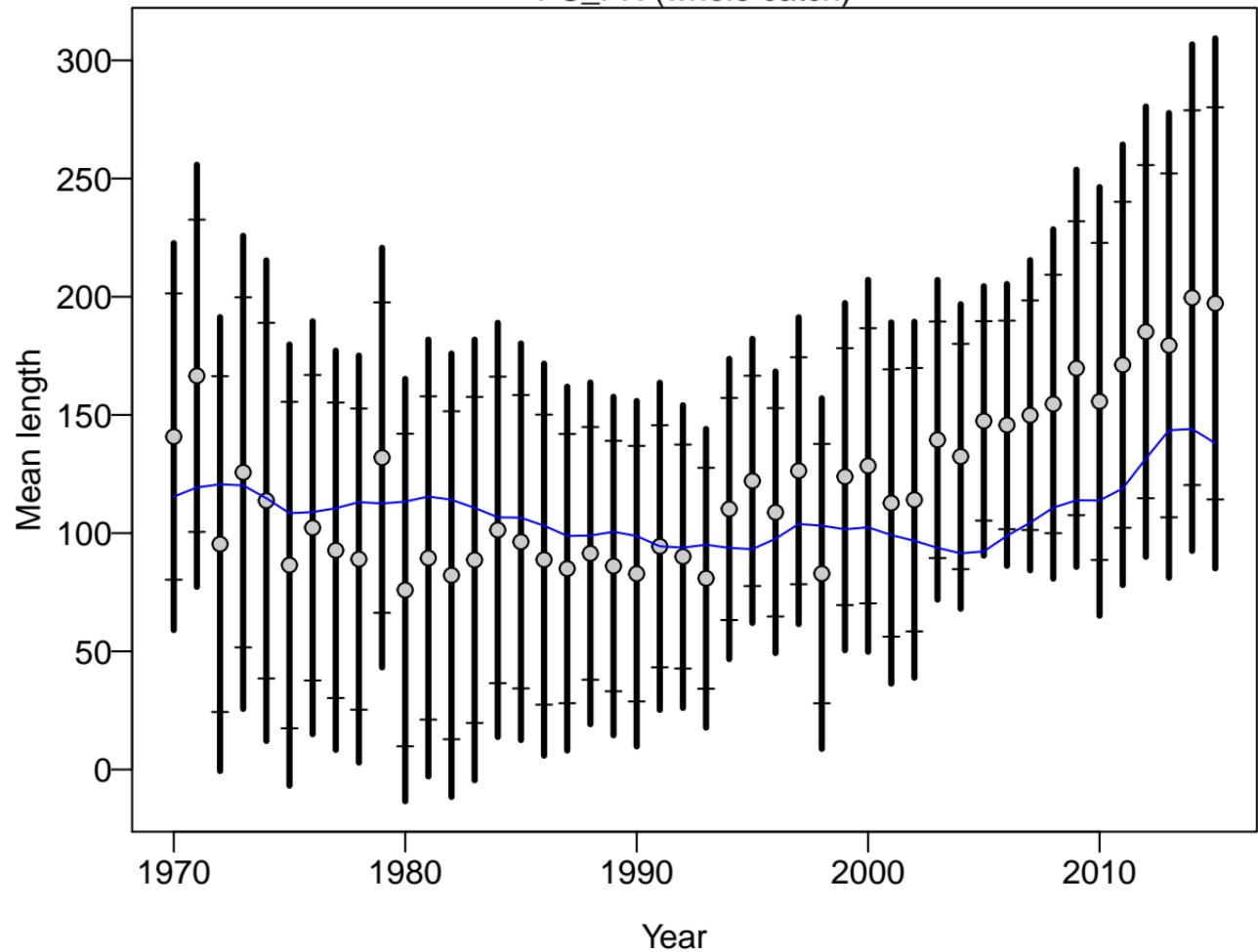
Pearson residuals, whole catch, PS_FR (max=45.79)



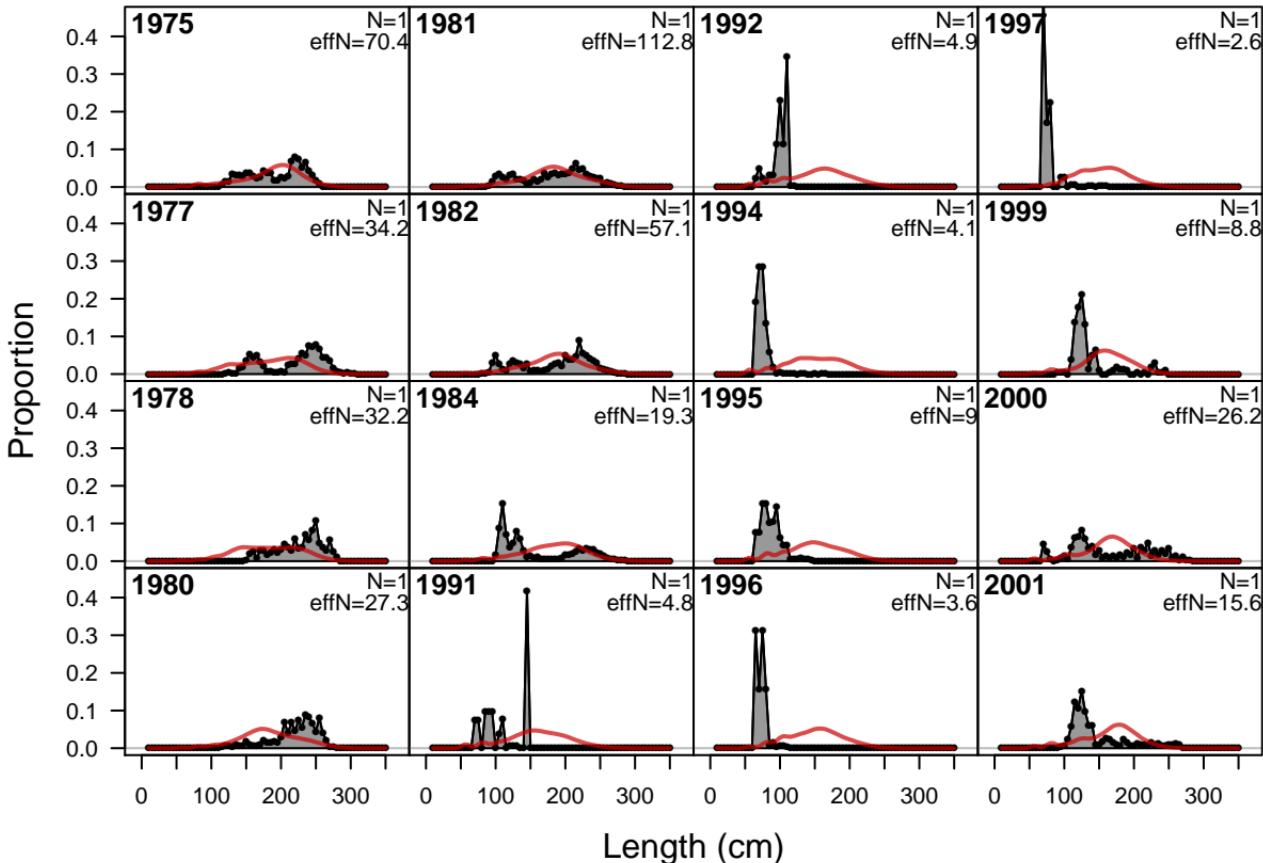
N-EffN comparison, Length comps, whole catch, PS_FR



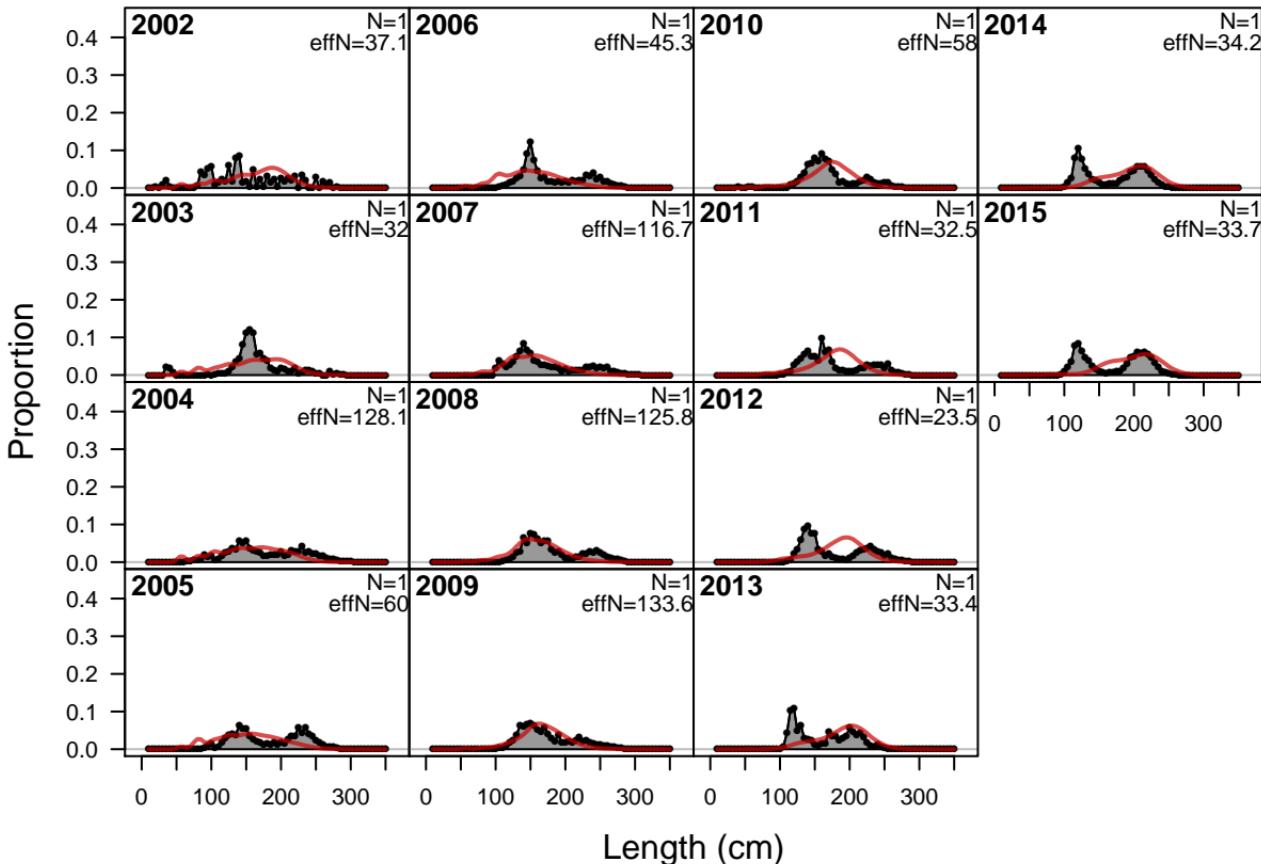
PS_FR (whole catch)



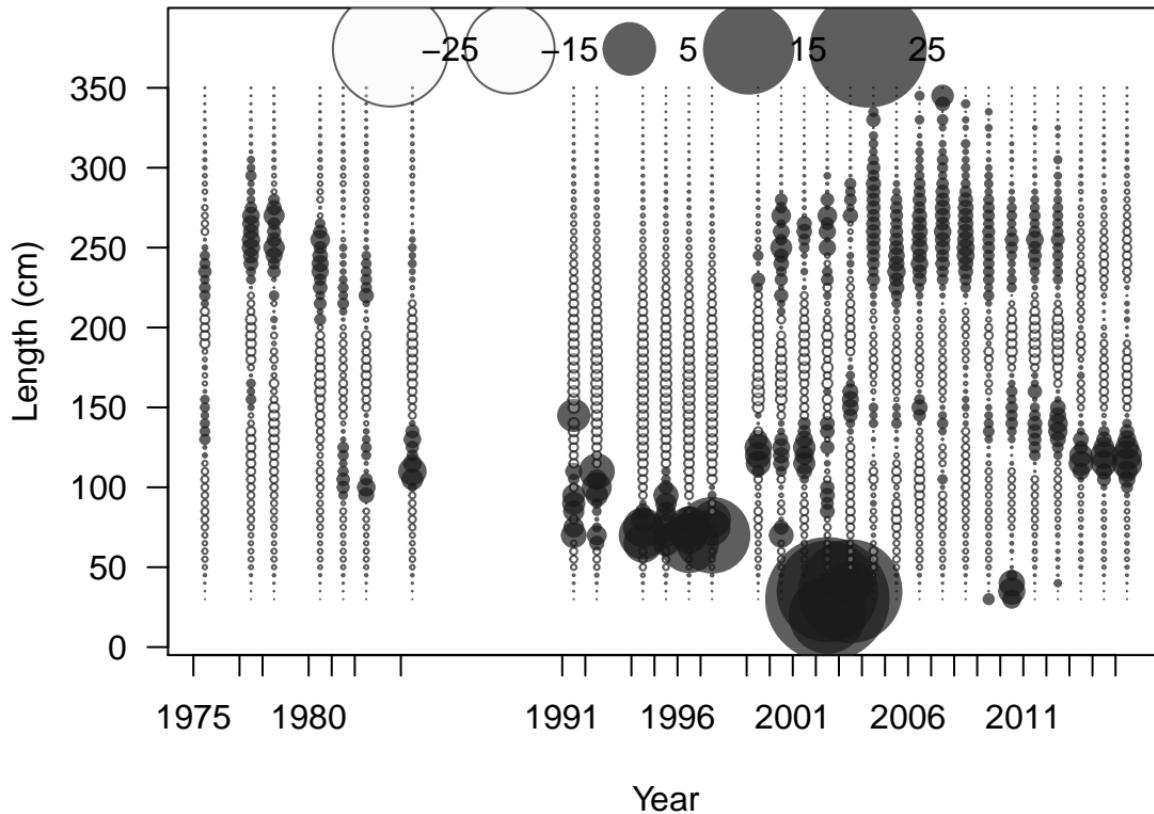
Length comps, whole catch, PSOTHER



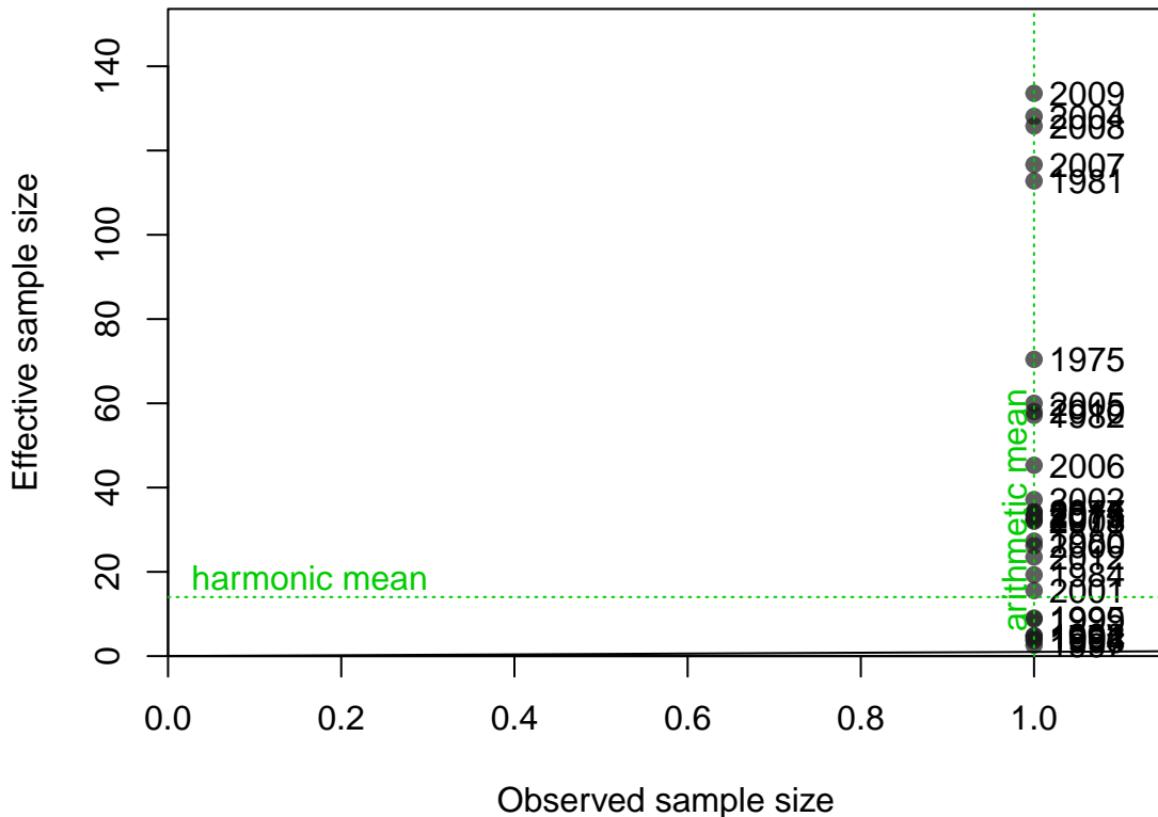
Length comps, whole catch, PSOTHER



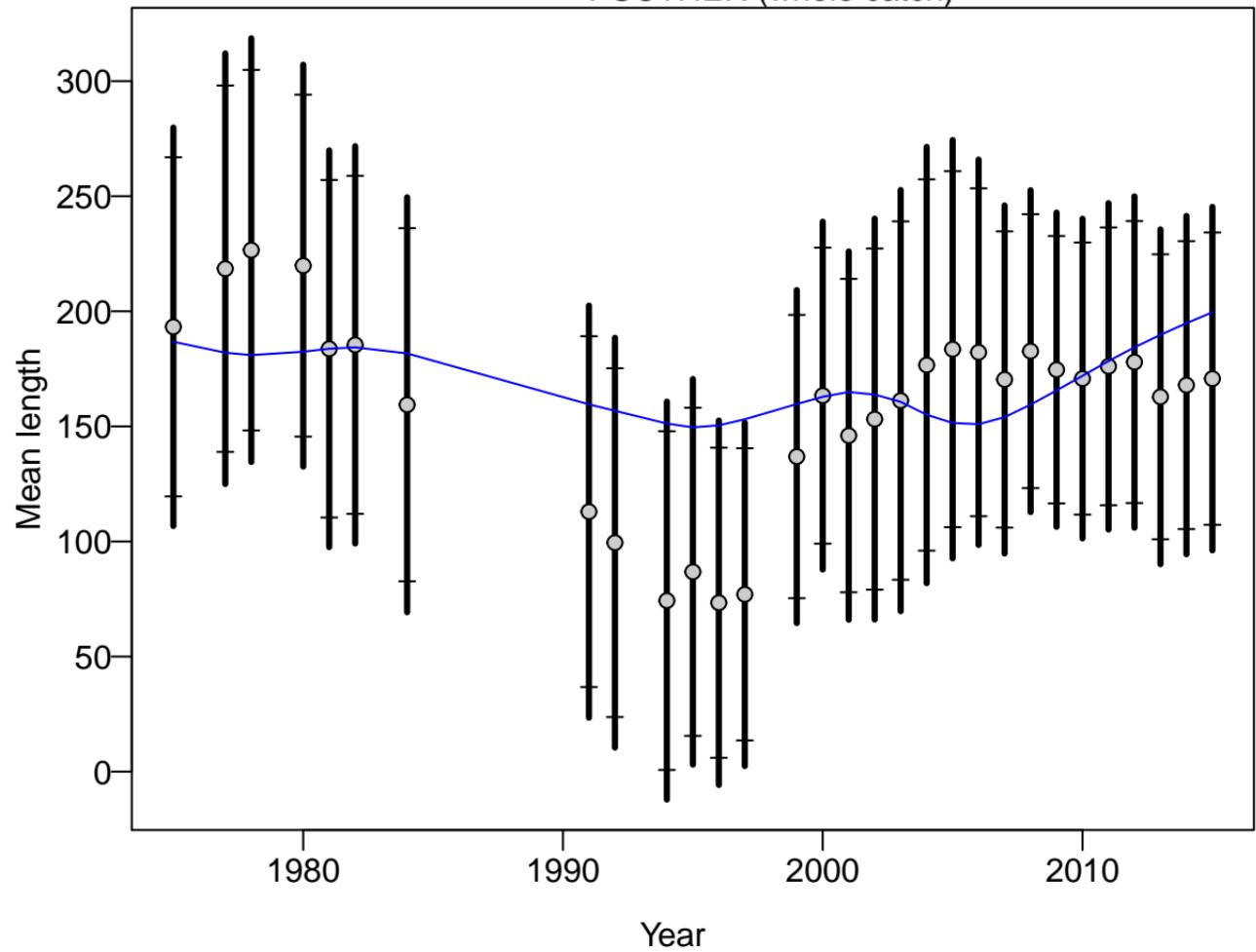
Pearson residuals, whole catch, PSOTHER (max=28.09)



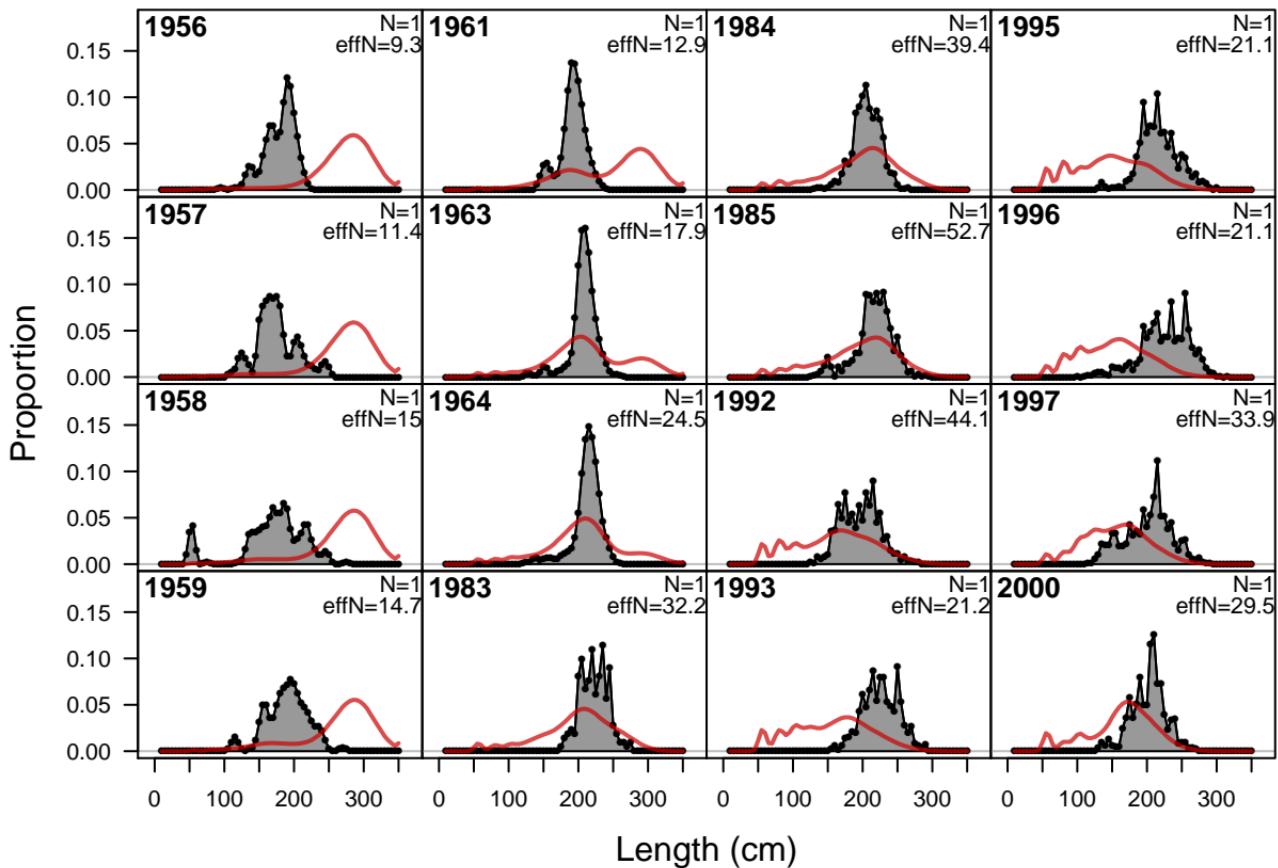
N-EffN comparison, Length comps, whole catch, PSOTHER



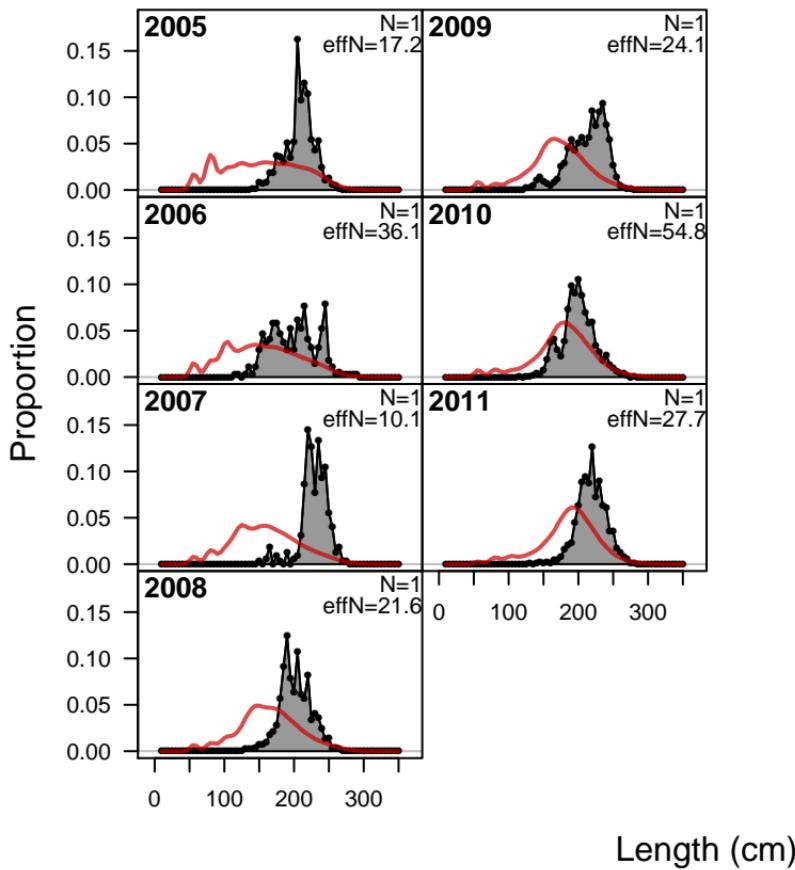
PSOTHER (whole catch)



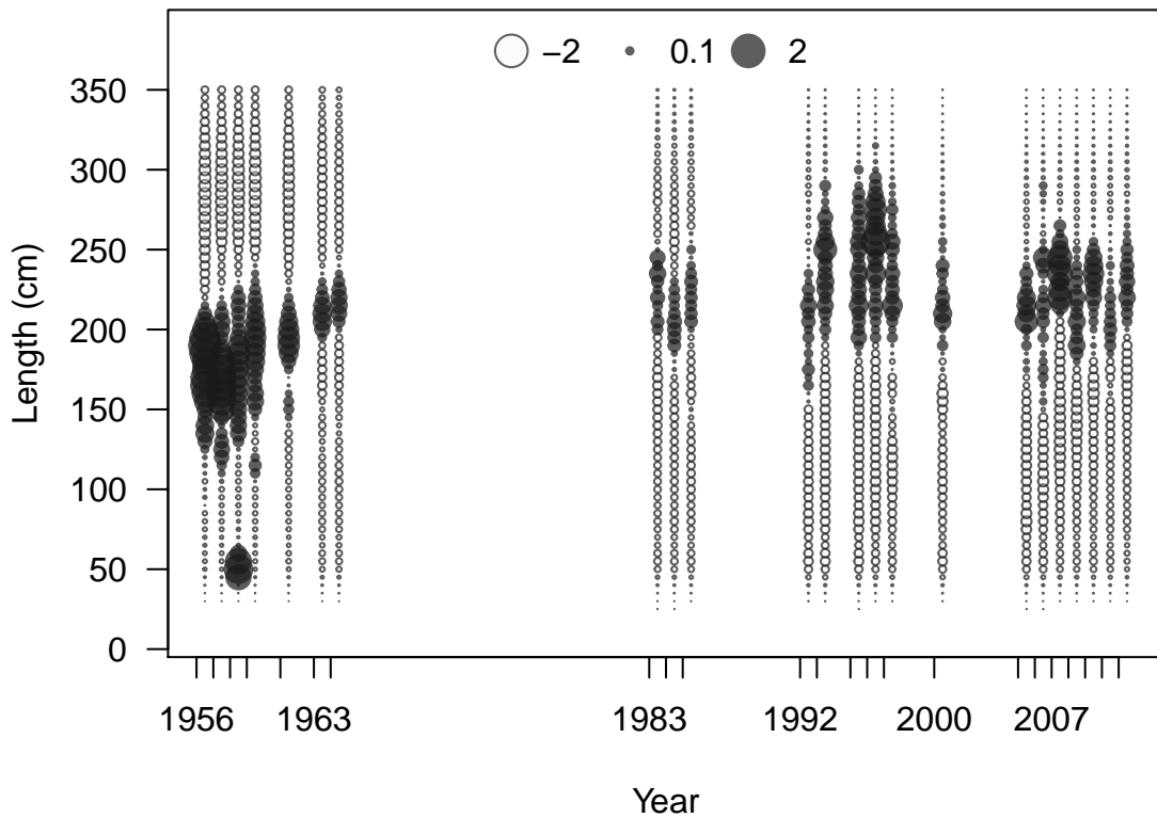
Length comps, whole catch, TRP1



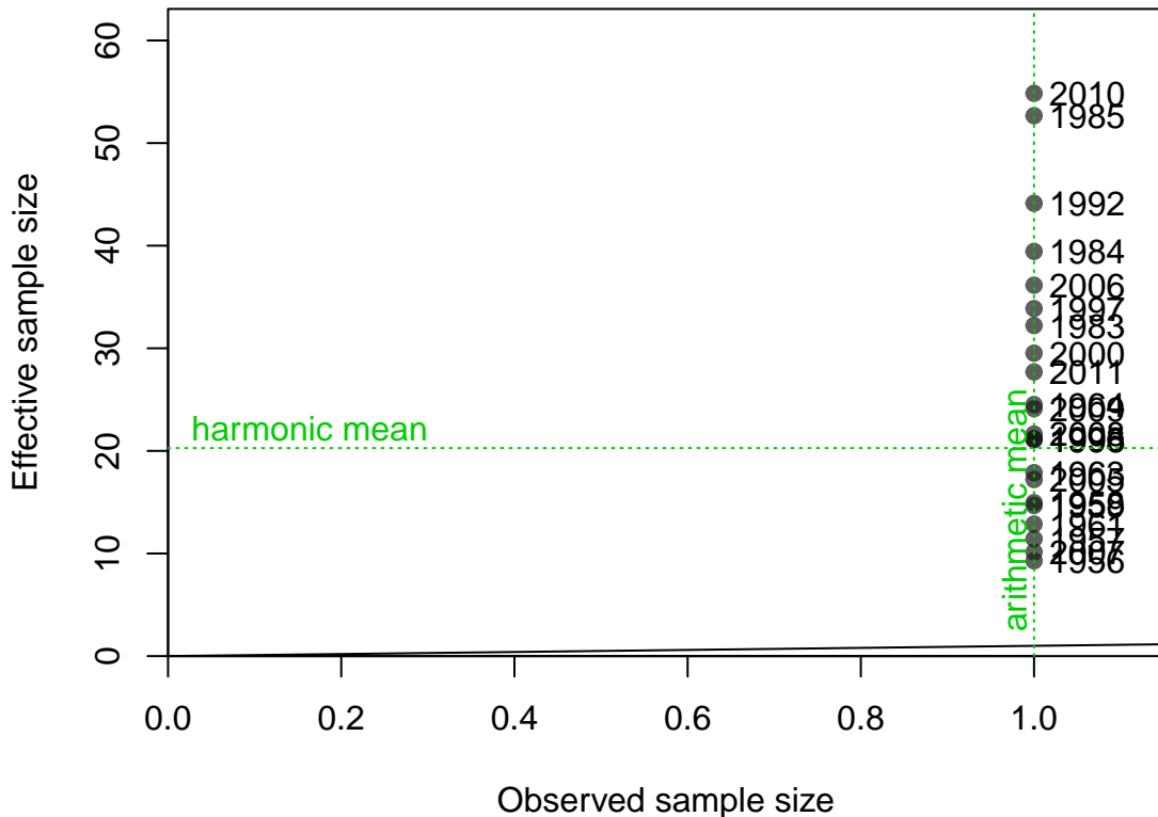
Length comps, whole catch, TRP1



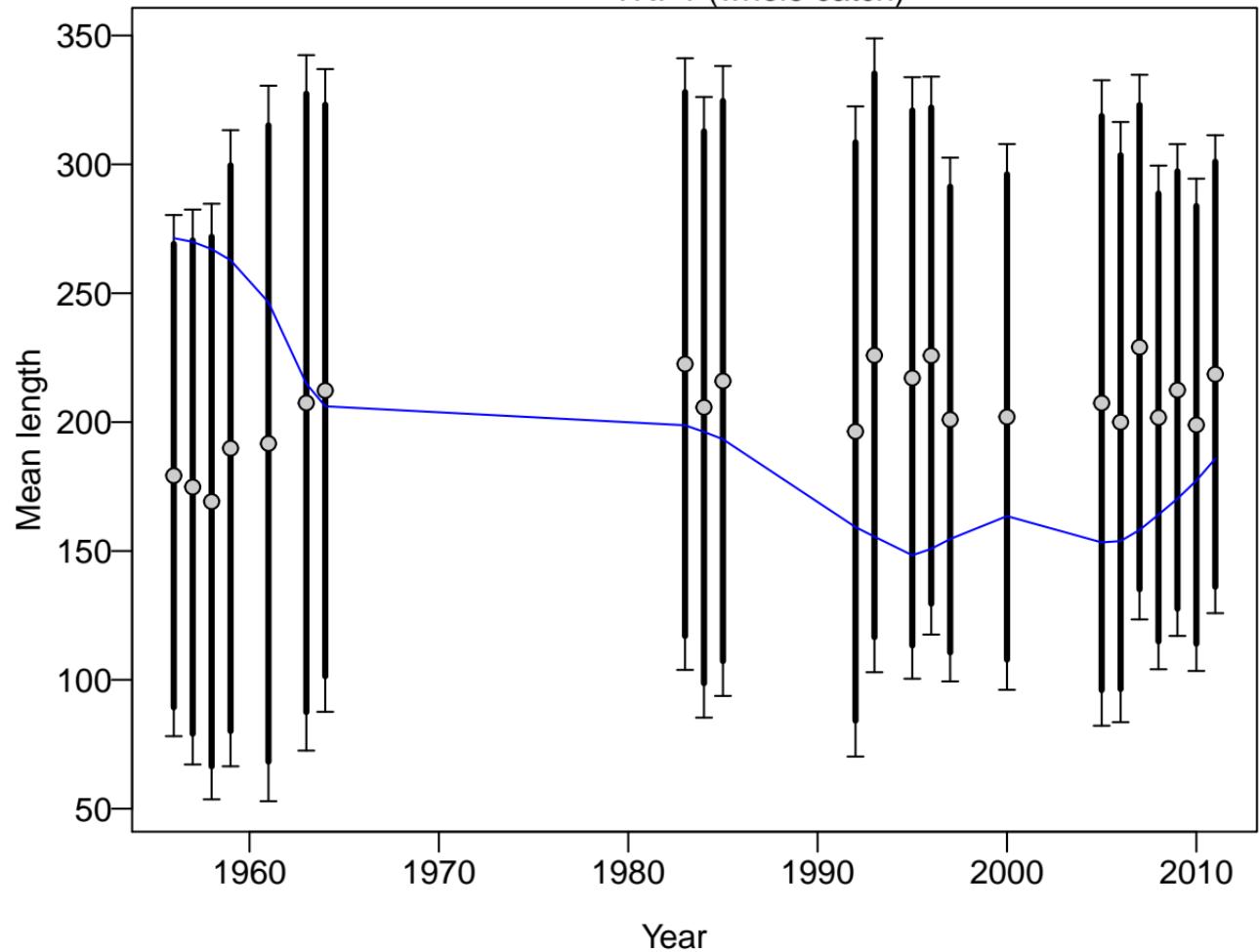
Pearson residuals, whole catch, TRP1 (max=1.87)



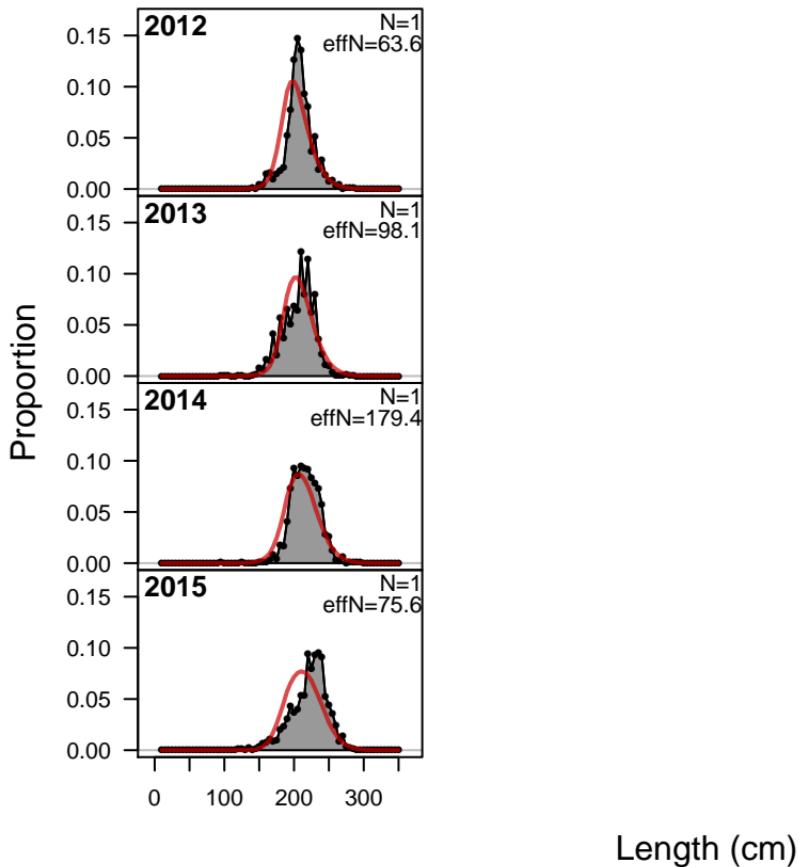
N-EffN comparison, Length comps, whole catch, TRP1



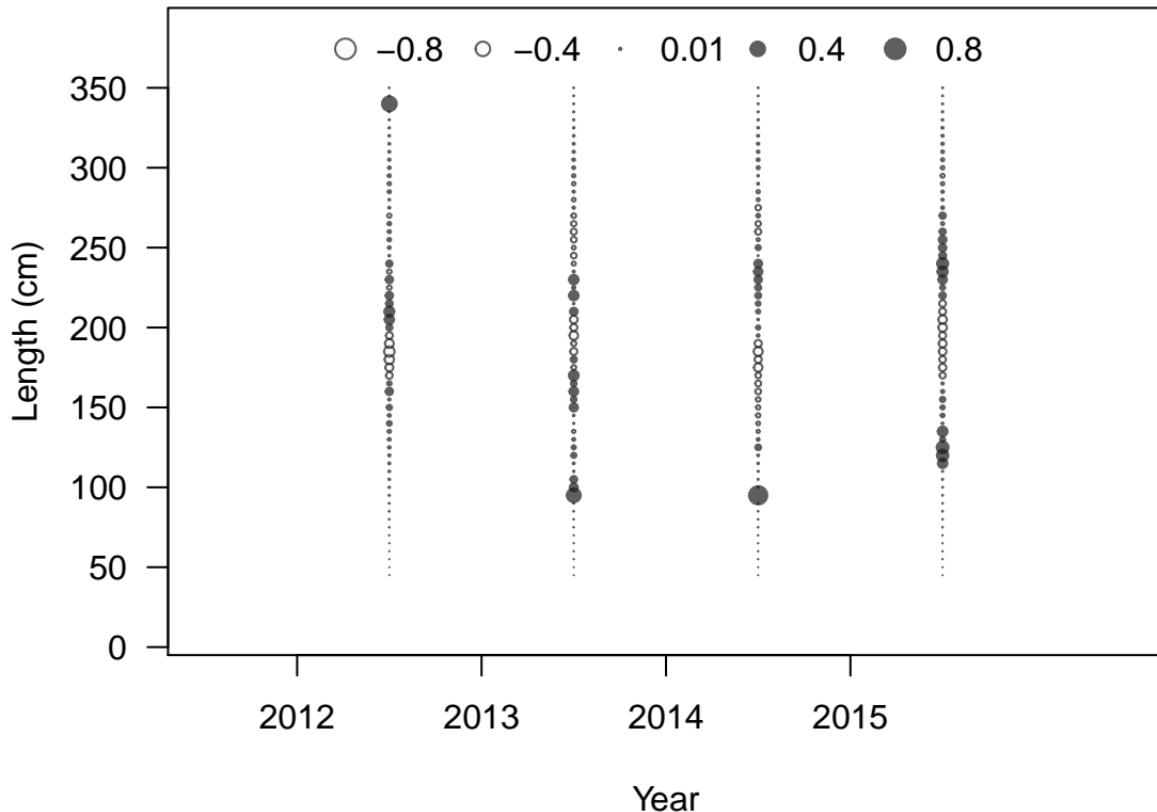
TRP1 (whole catch)



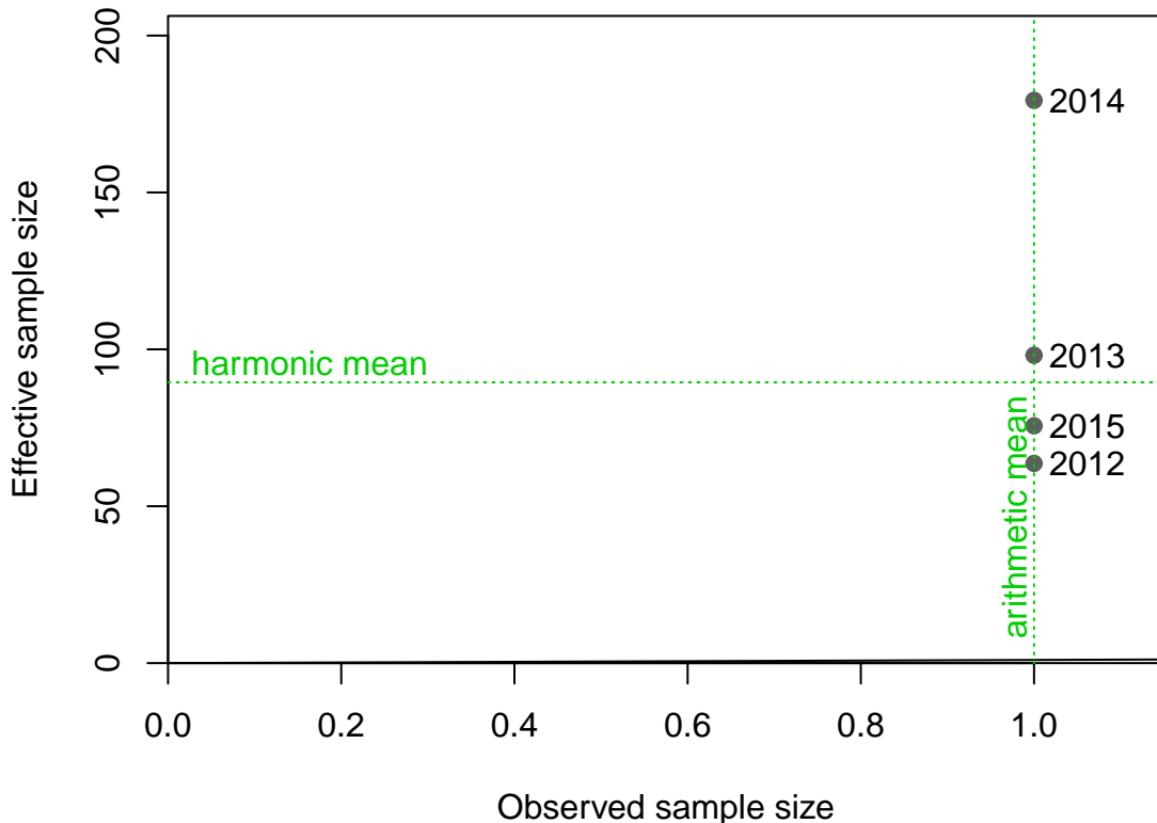
Length comps, whole catch, TRP2



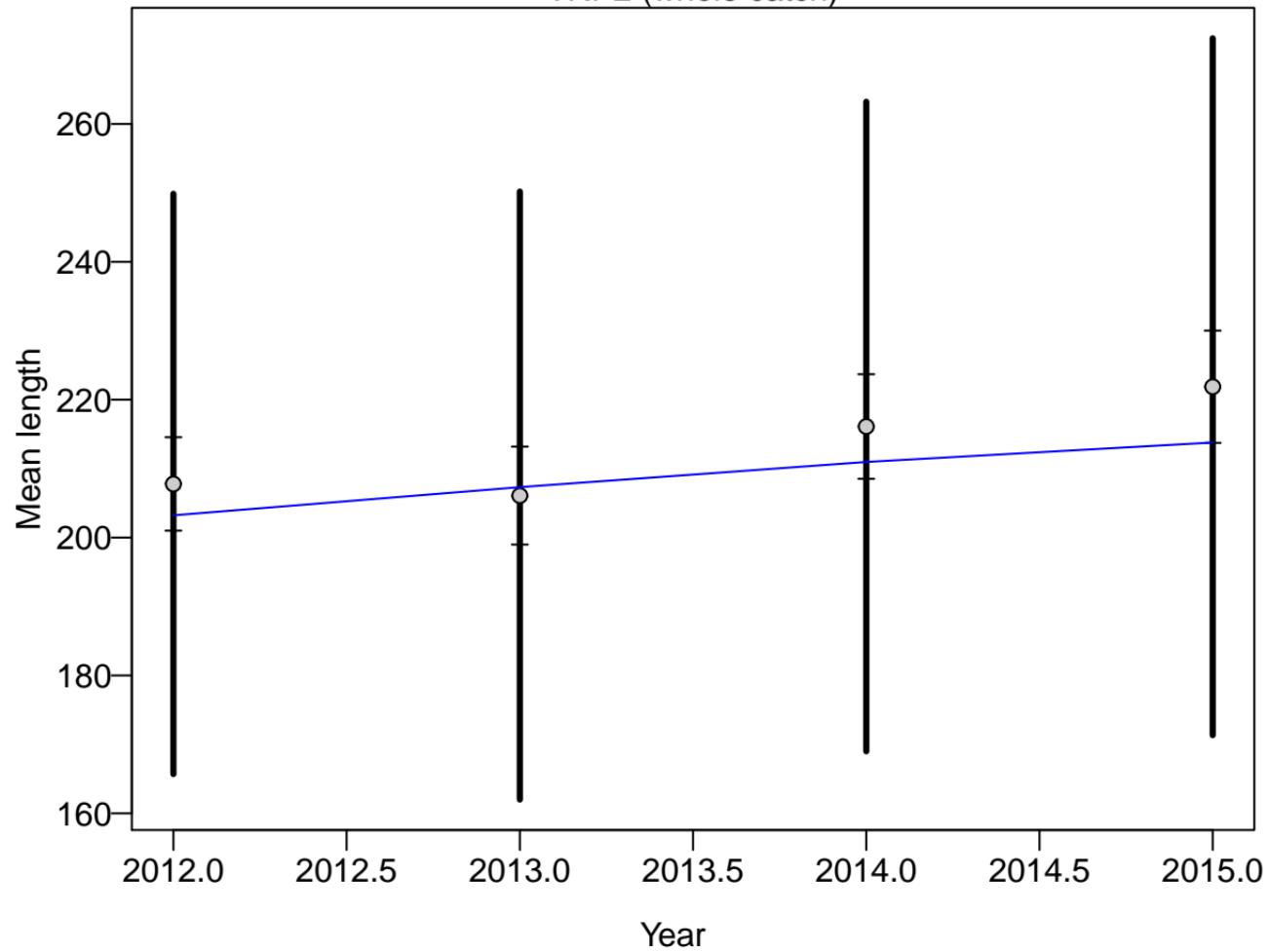
Pearson residuals, whole catch, TRP2 (max=0.63)



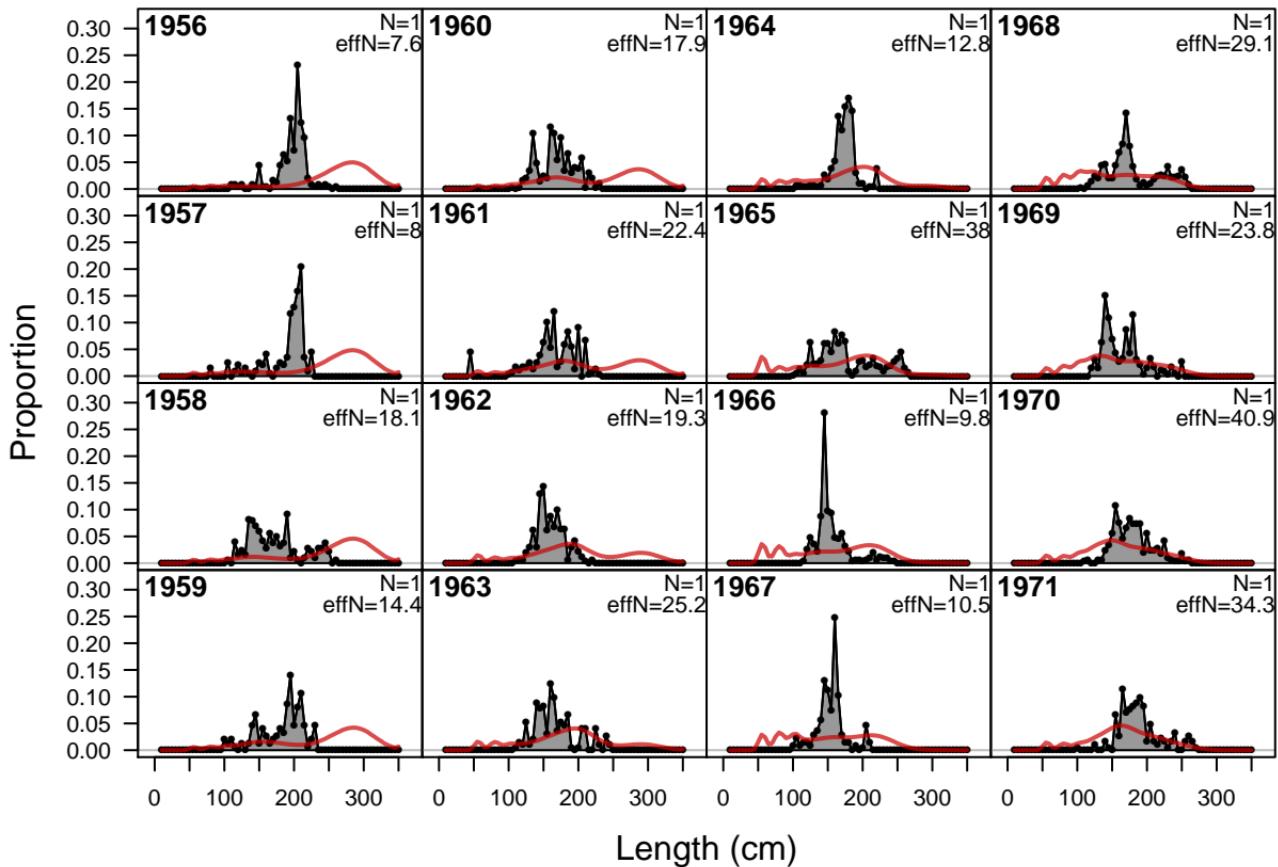
N-EffN comparison, Length comps, whole catch, TRP2



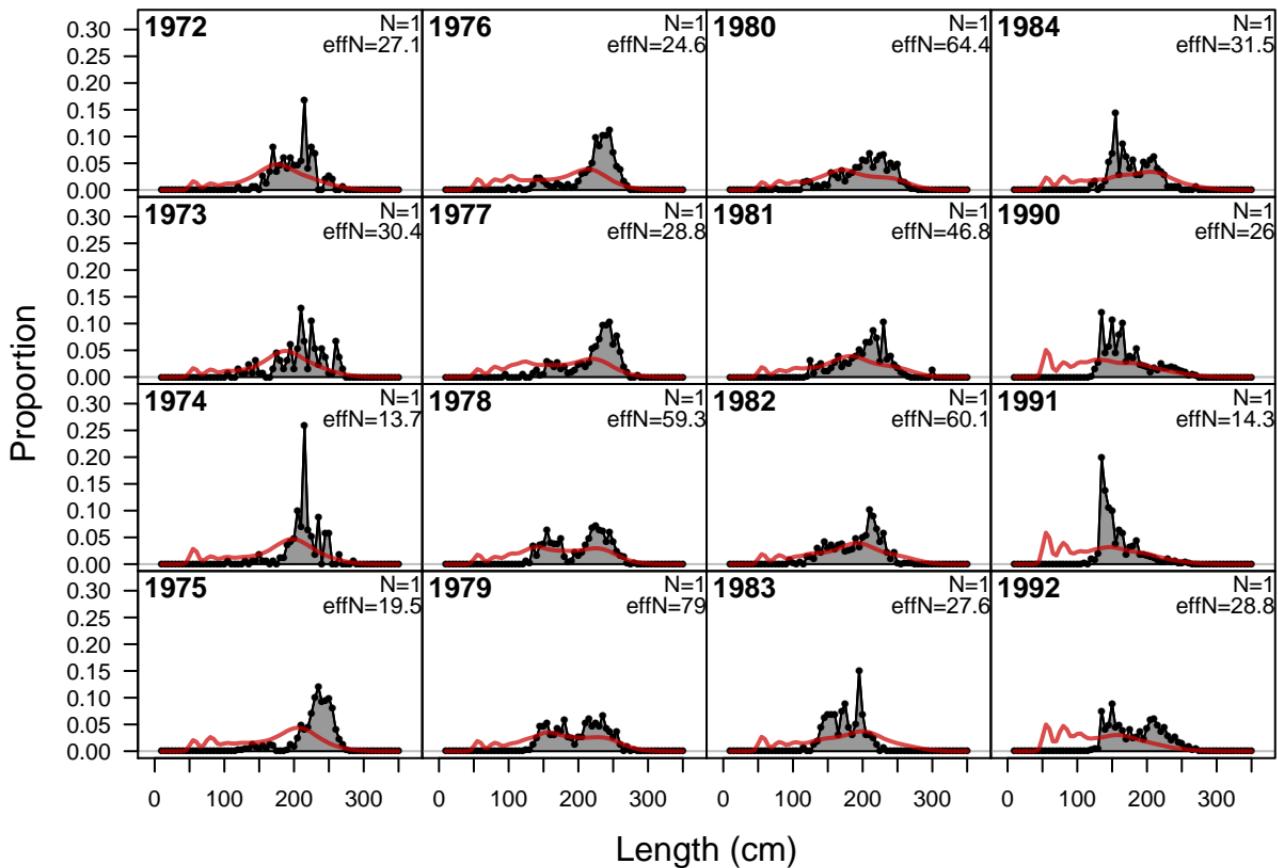
TRP2 (whole catch)



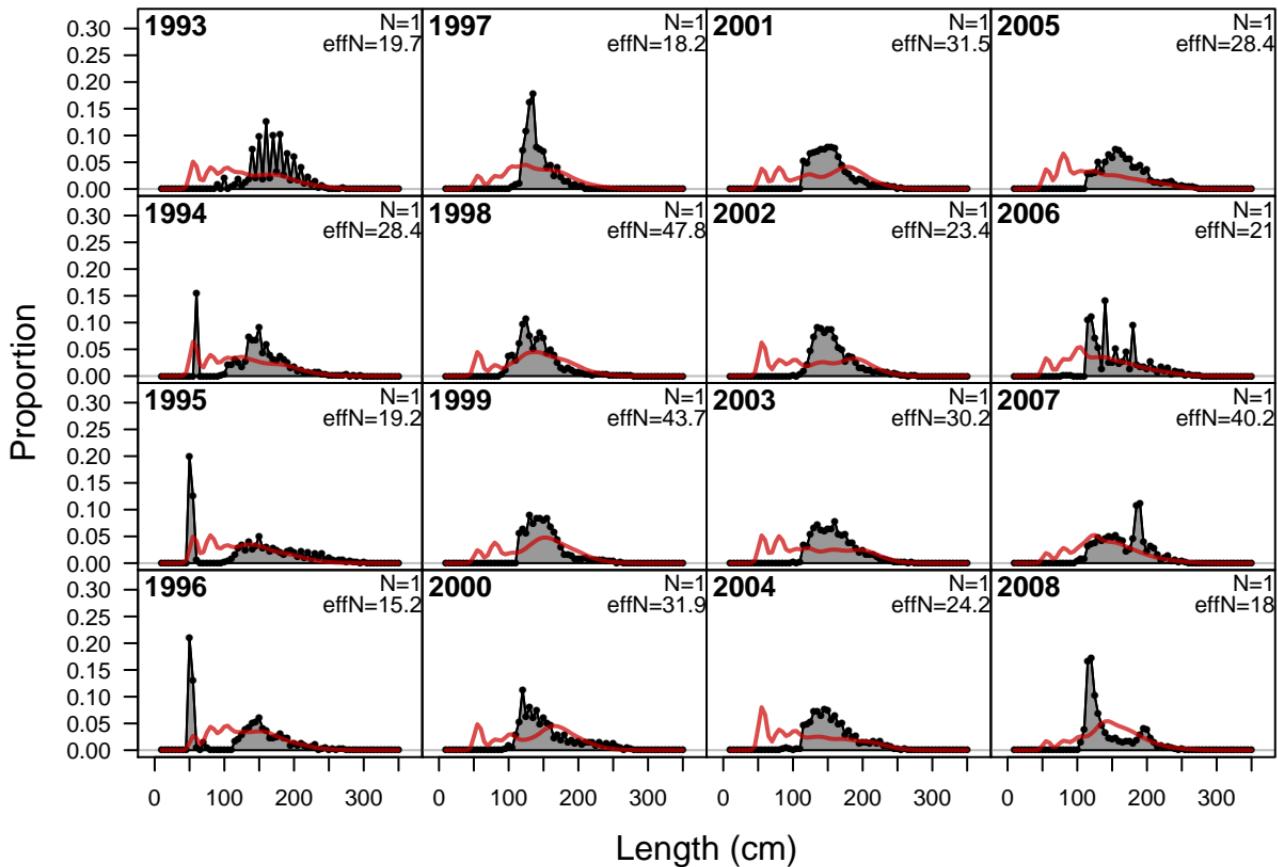
Length comps, whole catch, TRPOTHER



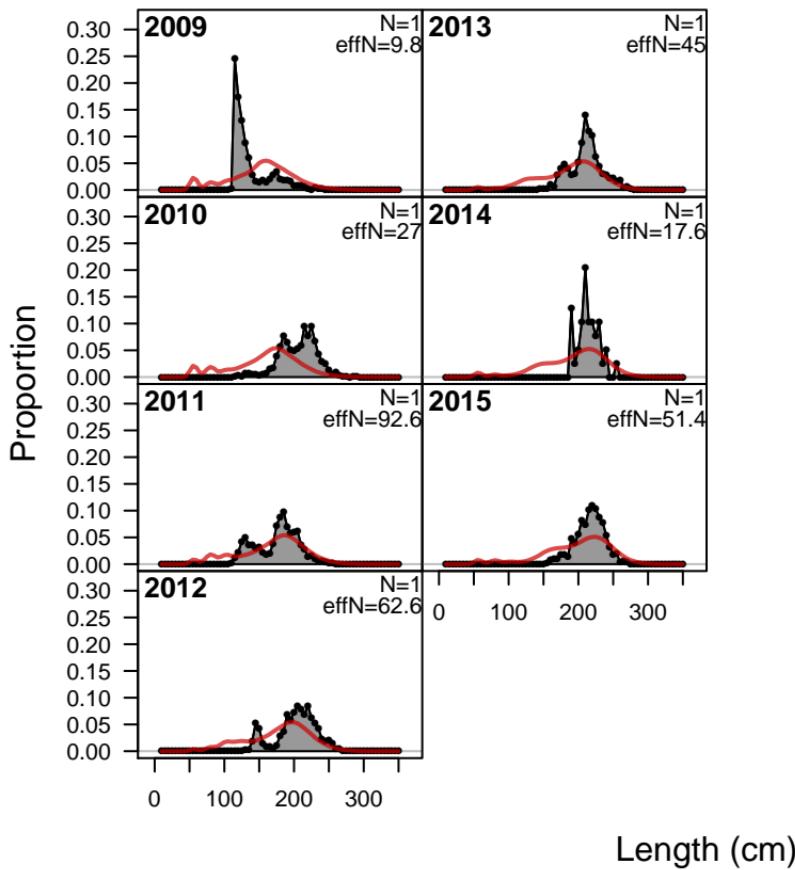
Length comps, whole catch, TRPOTHER



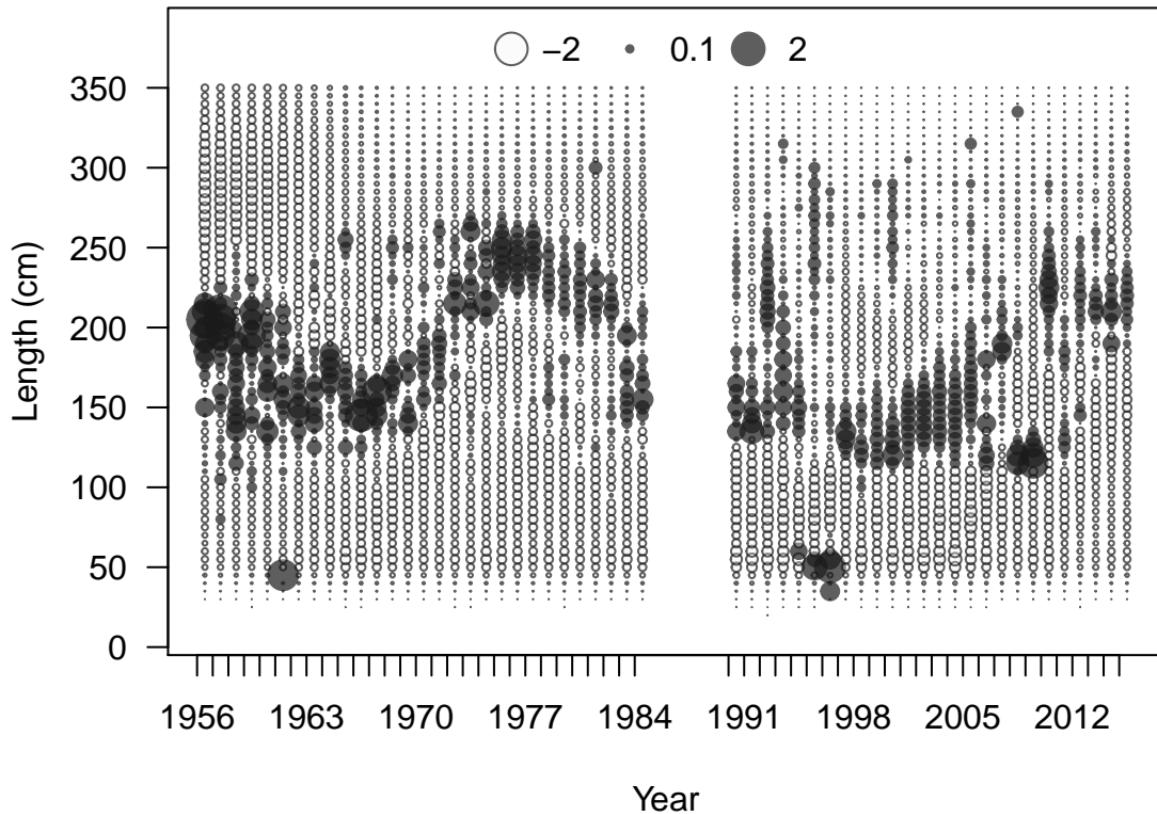
Length comps, whole catch, TRPOTHER



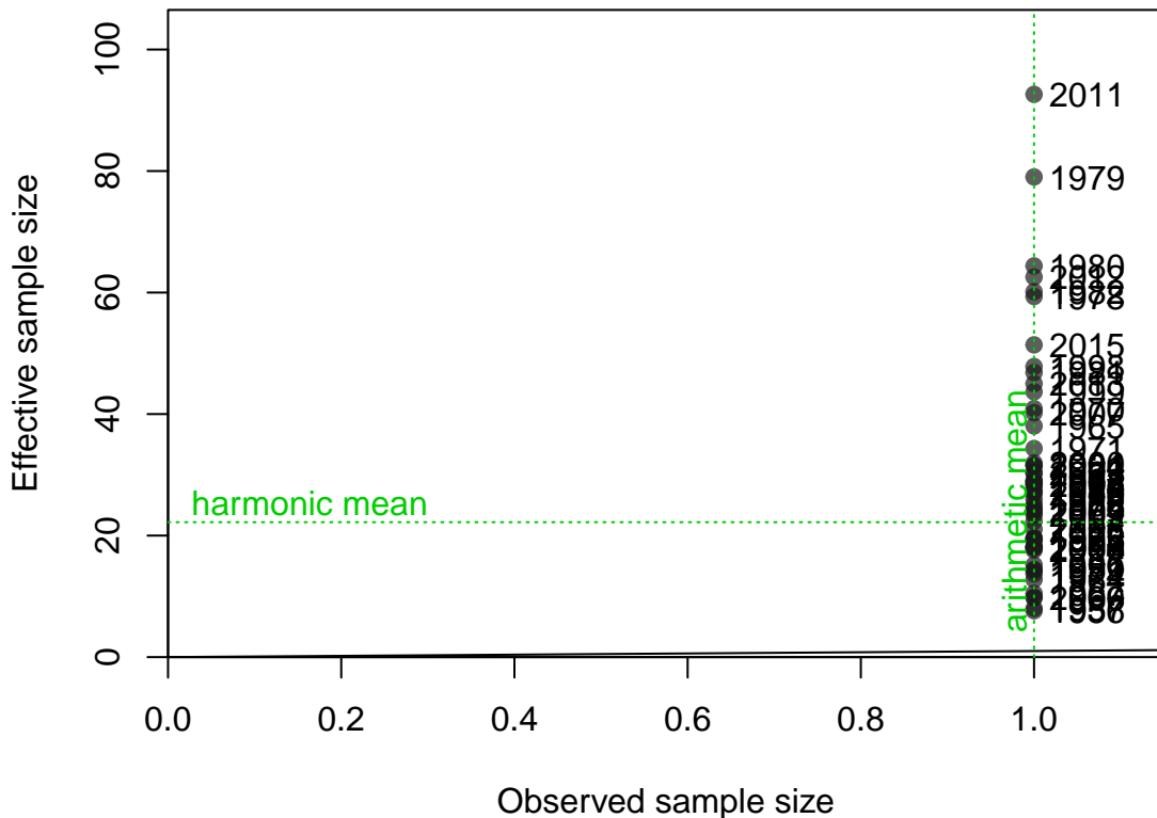
Length comps, whole catch, TRPOTHER



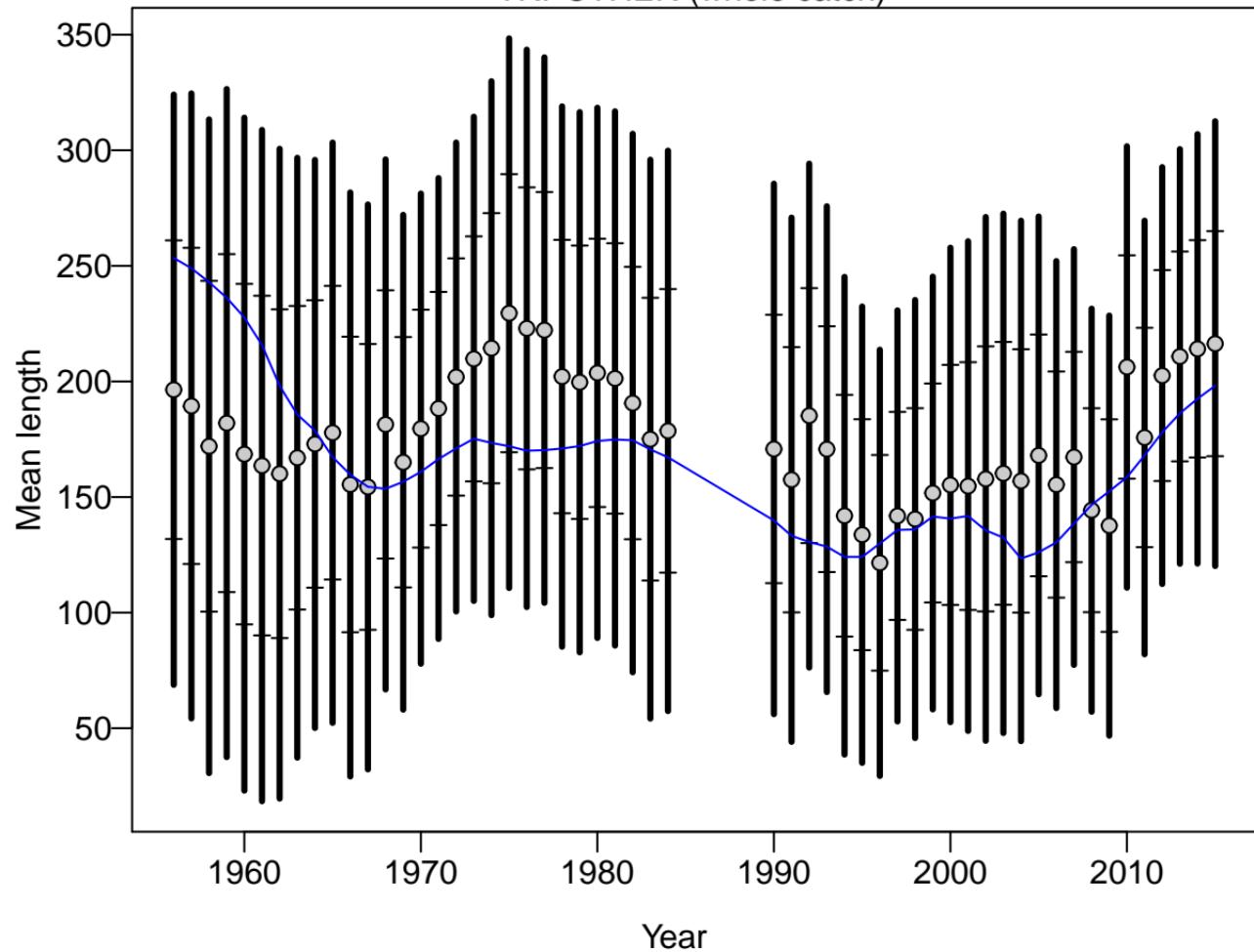
Pearson residuals, whole catch, TRPOTHER (max=2.35)



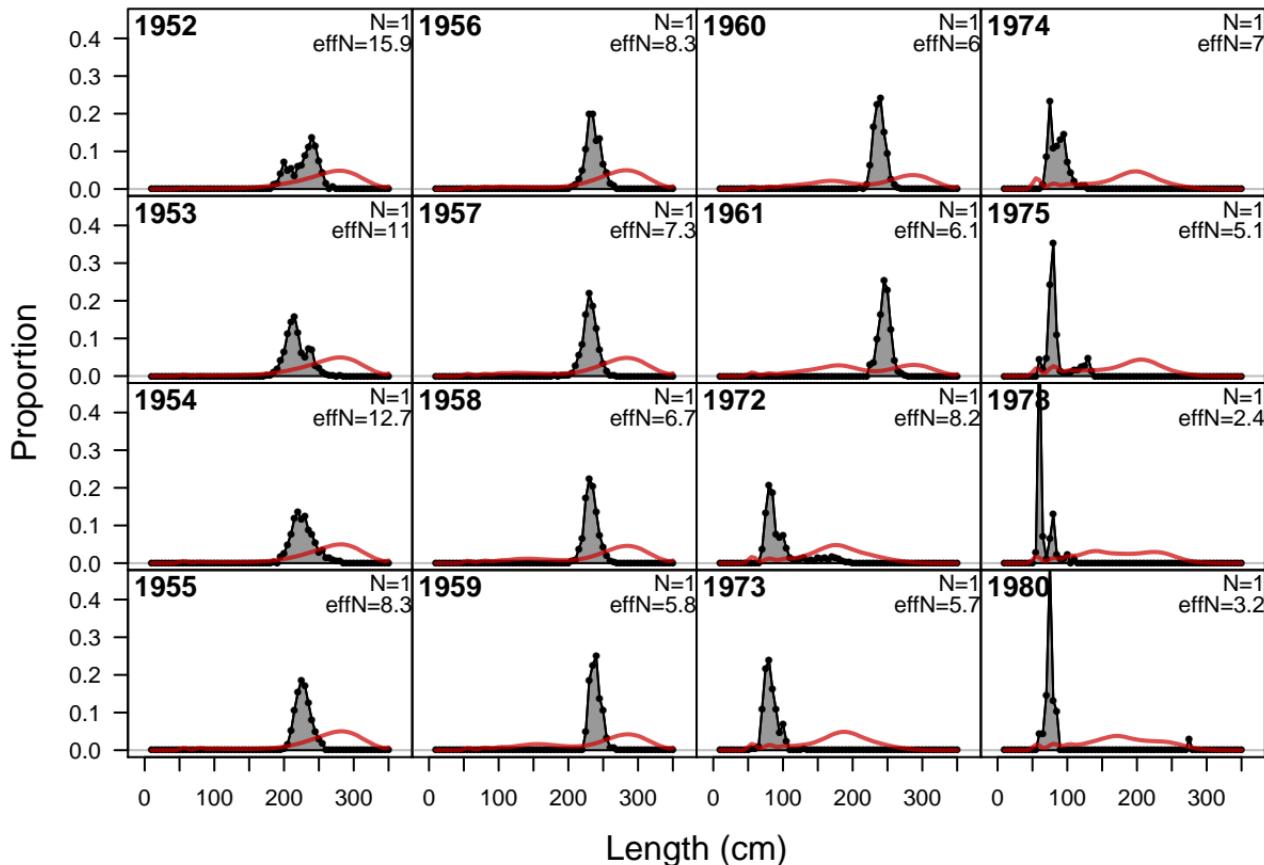
N-EffN comparison, Length comps, whole catch, TRPOTHER



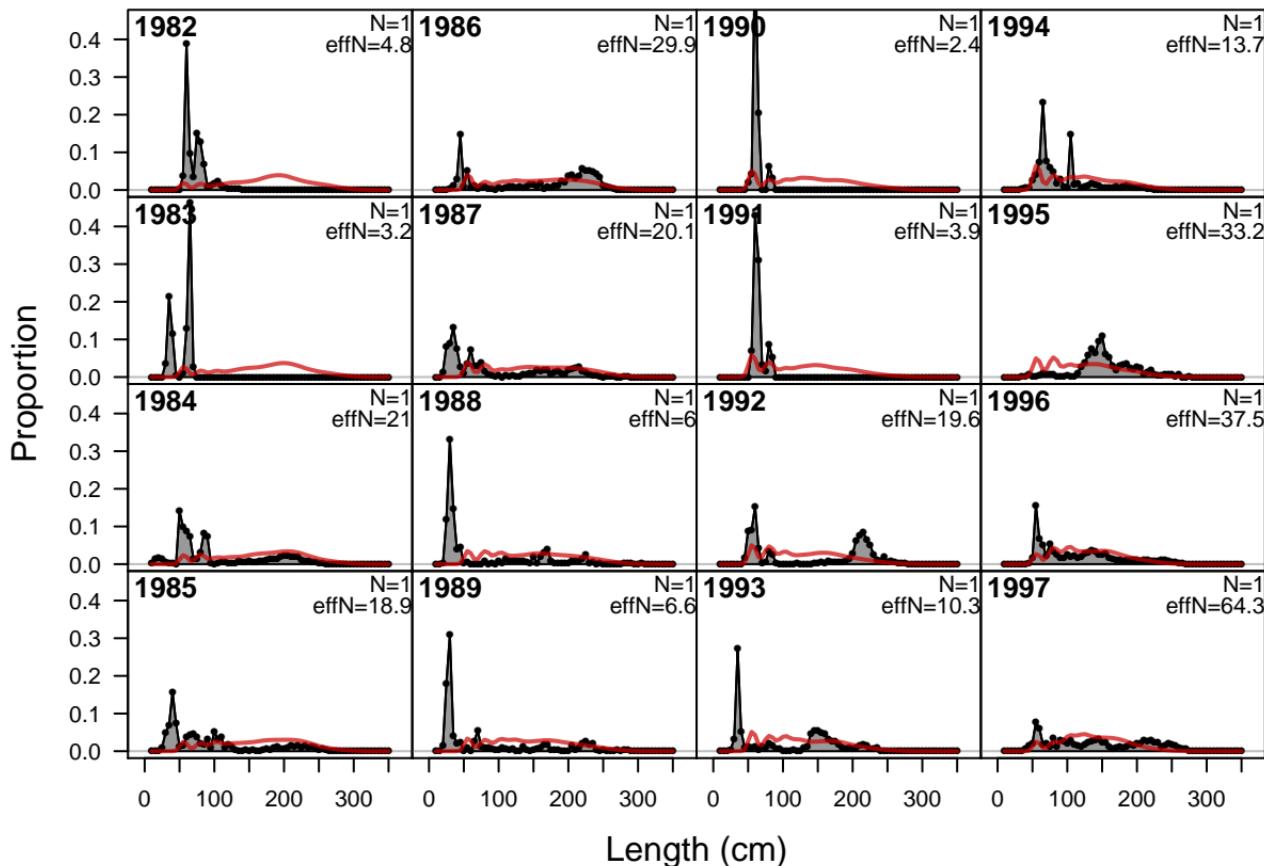
TRPOTHER (whole catch)



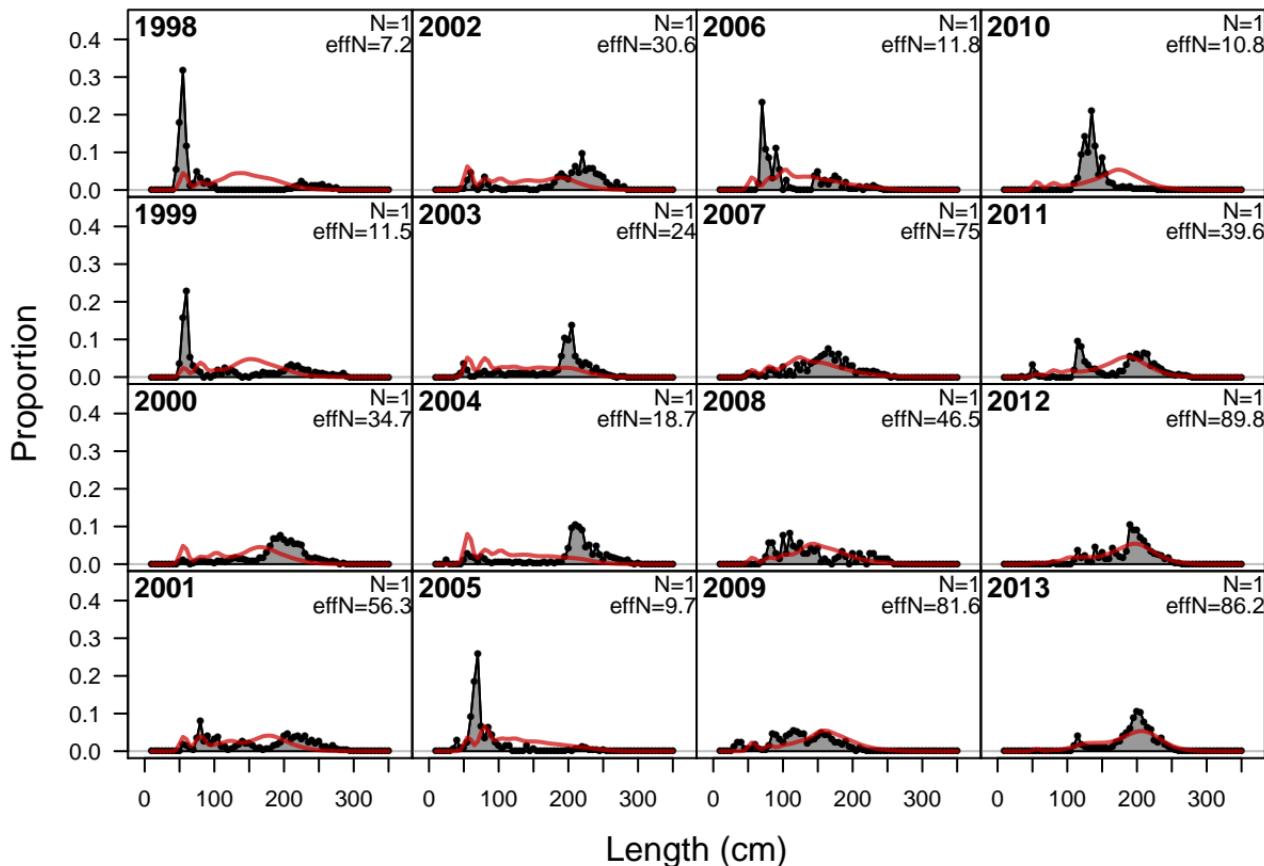
Length comps, whole catch, OTR



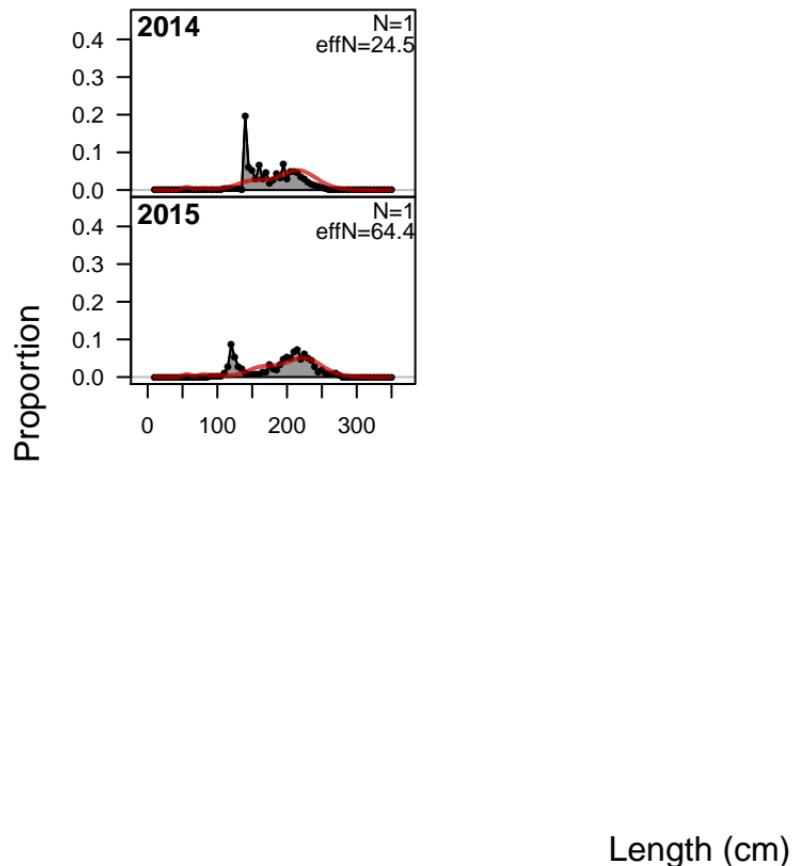
Length comps, whole catch, OTR



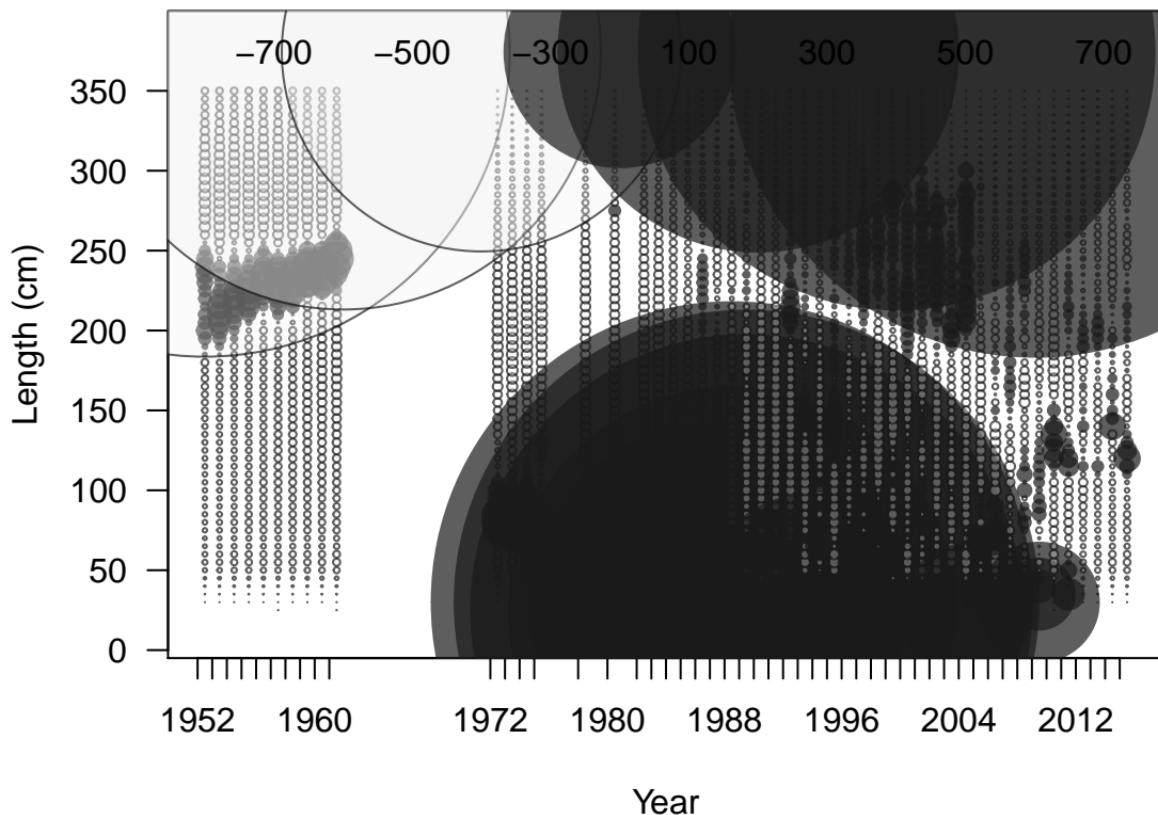
Length comps, whole catch, OTR



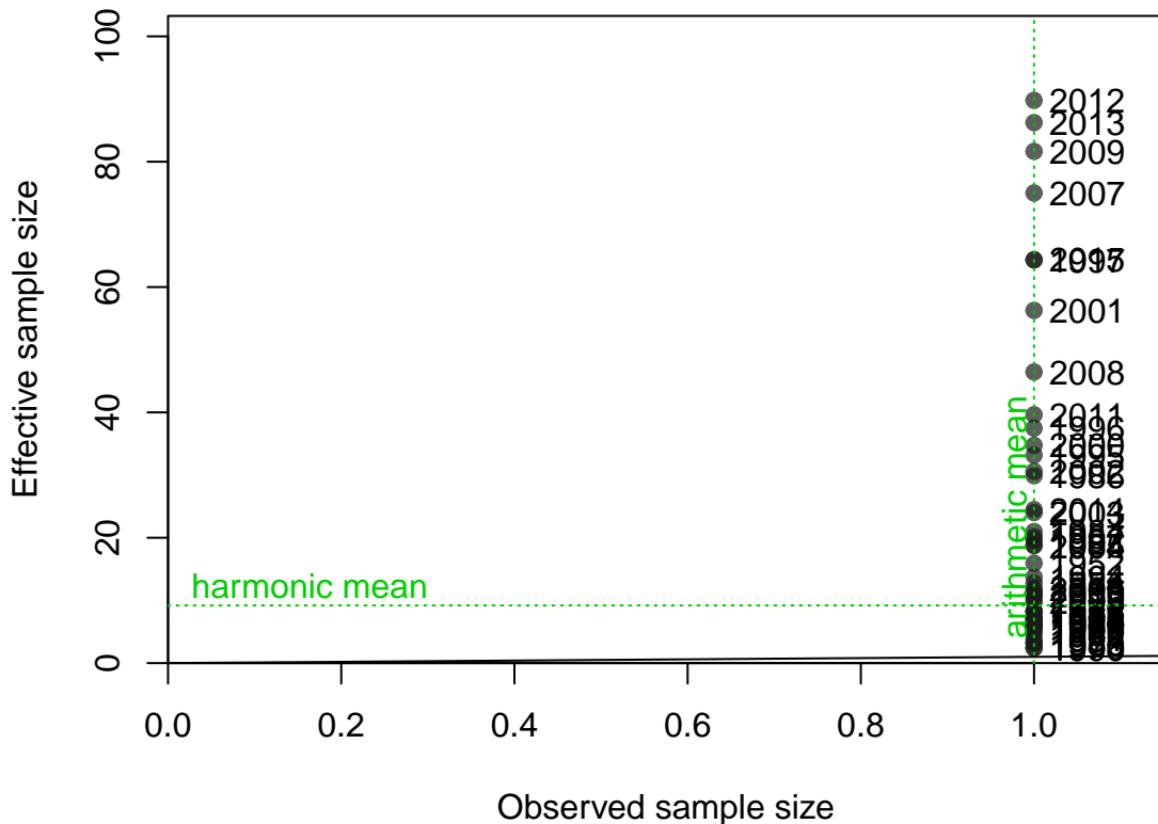
Length comps, whole catch, OTR



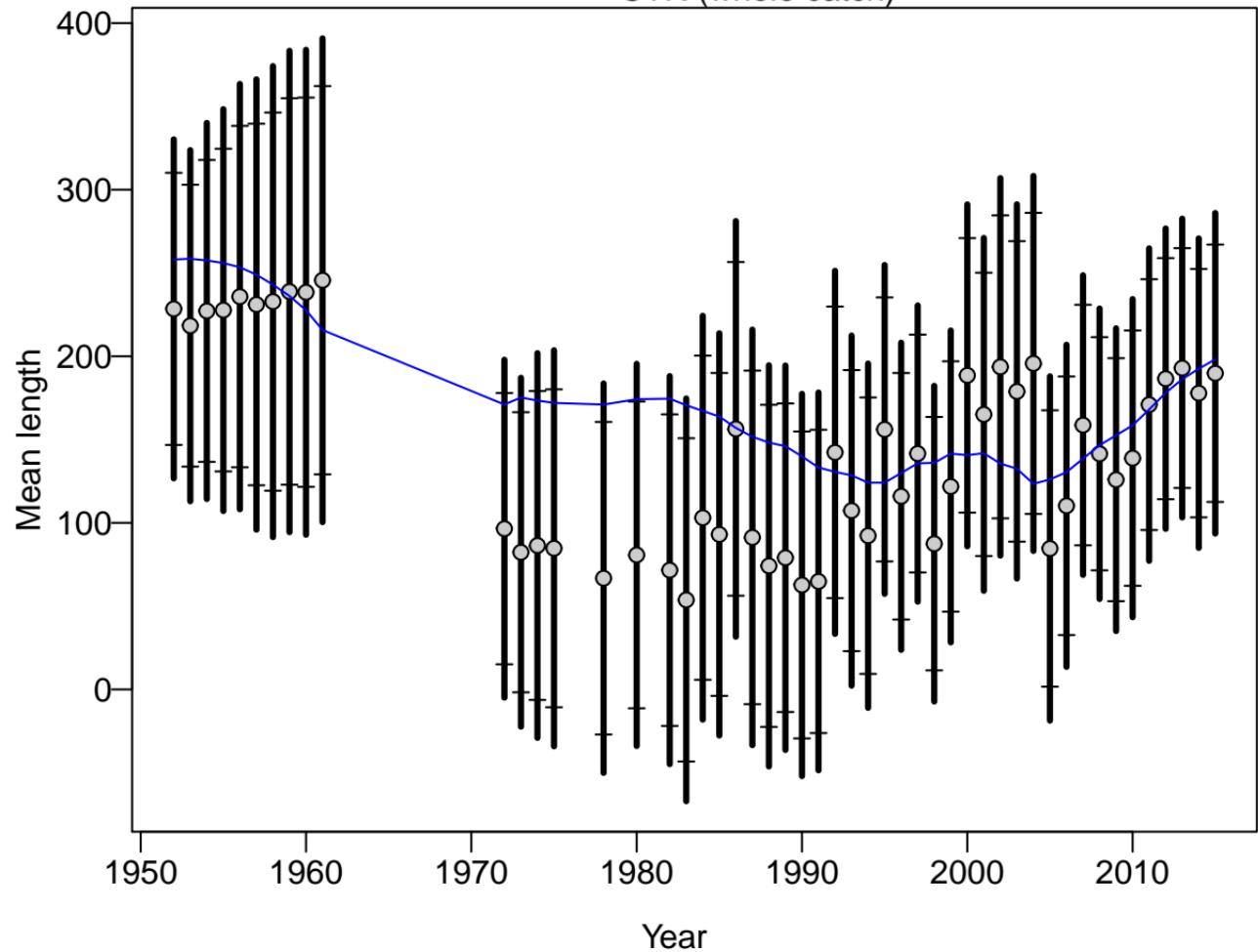
Pearson residuals, whole catch, OTR (max=677.54)



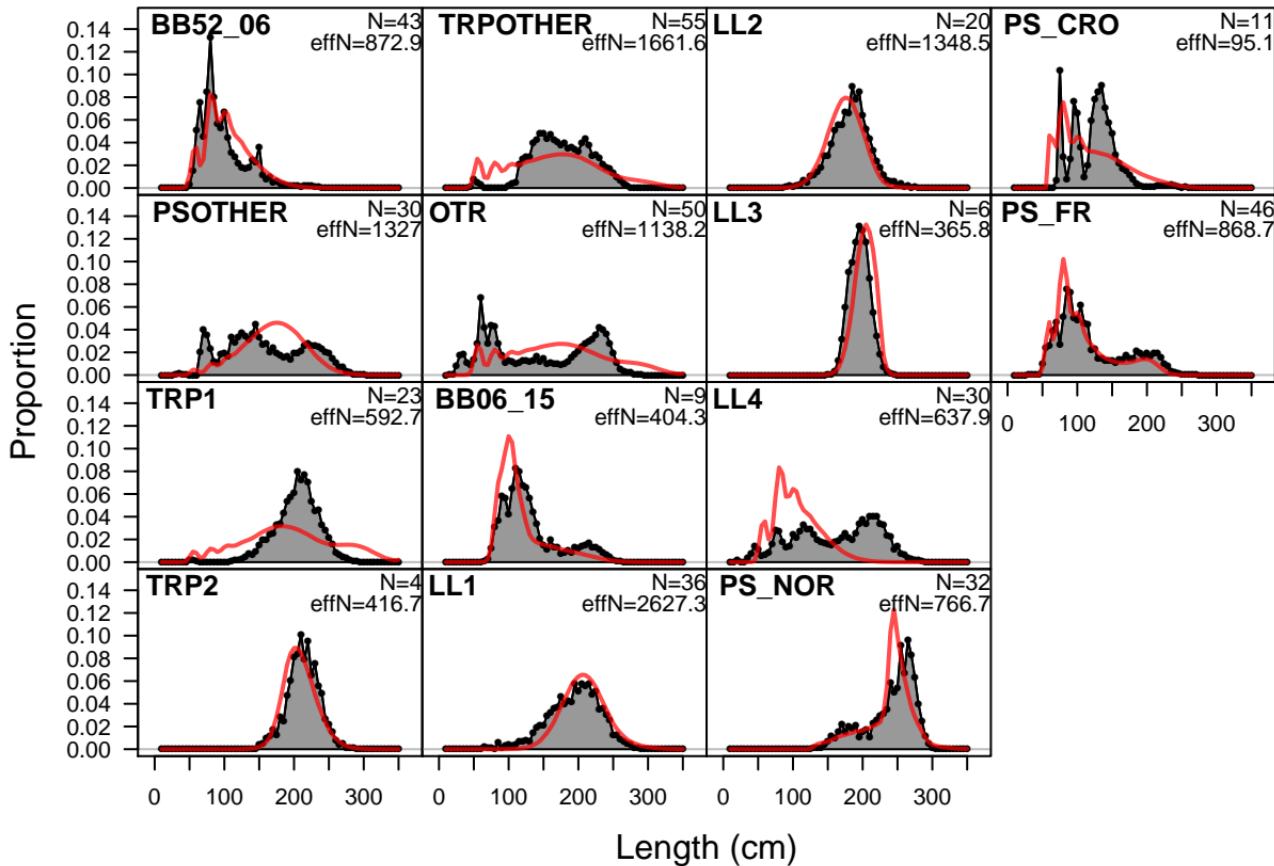
N-EffN comparison, Length comps, whole catch, OTR



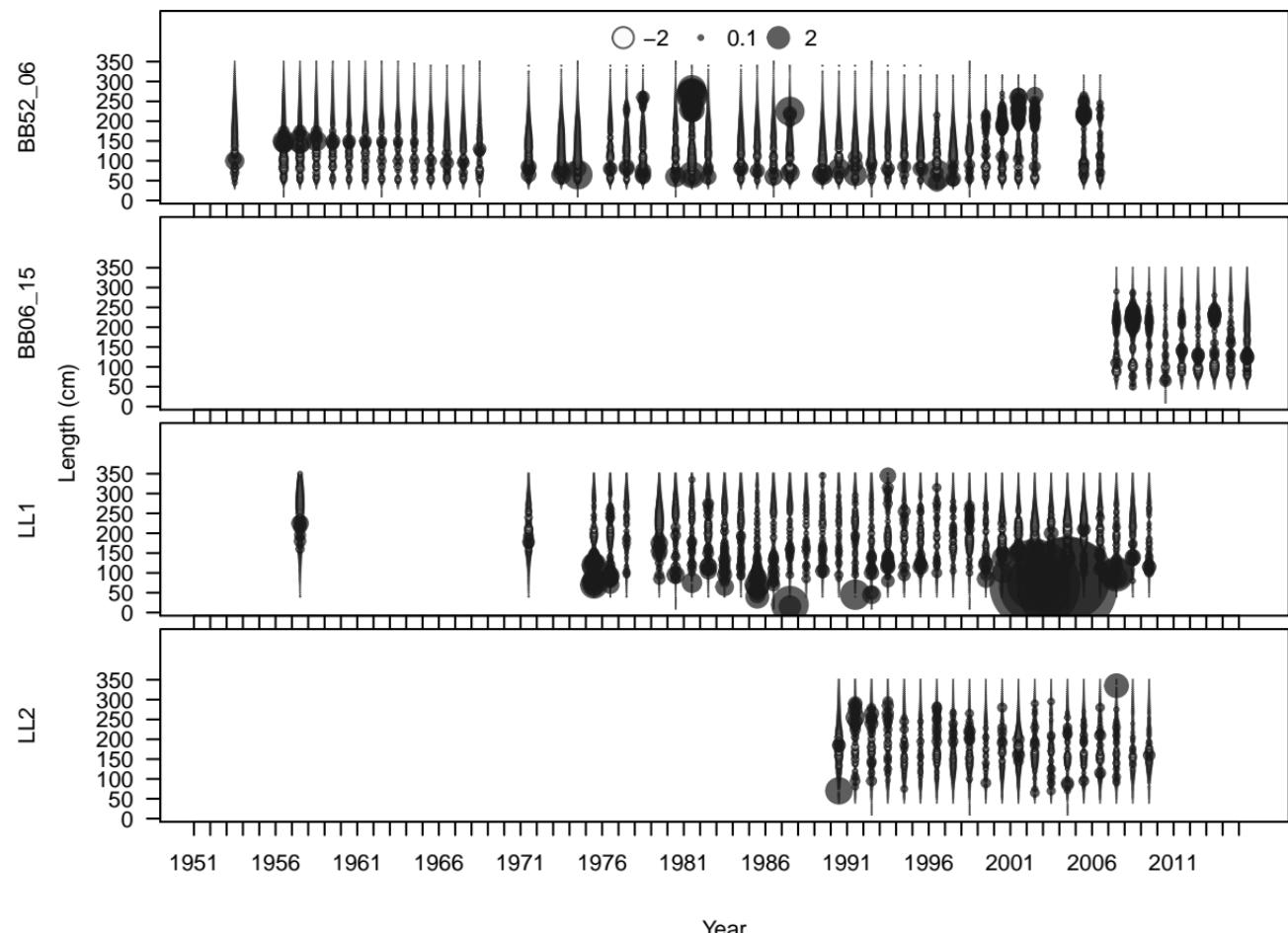
OTR (whole catch)



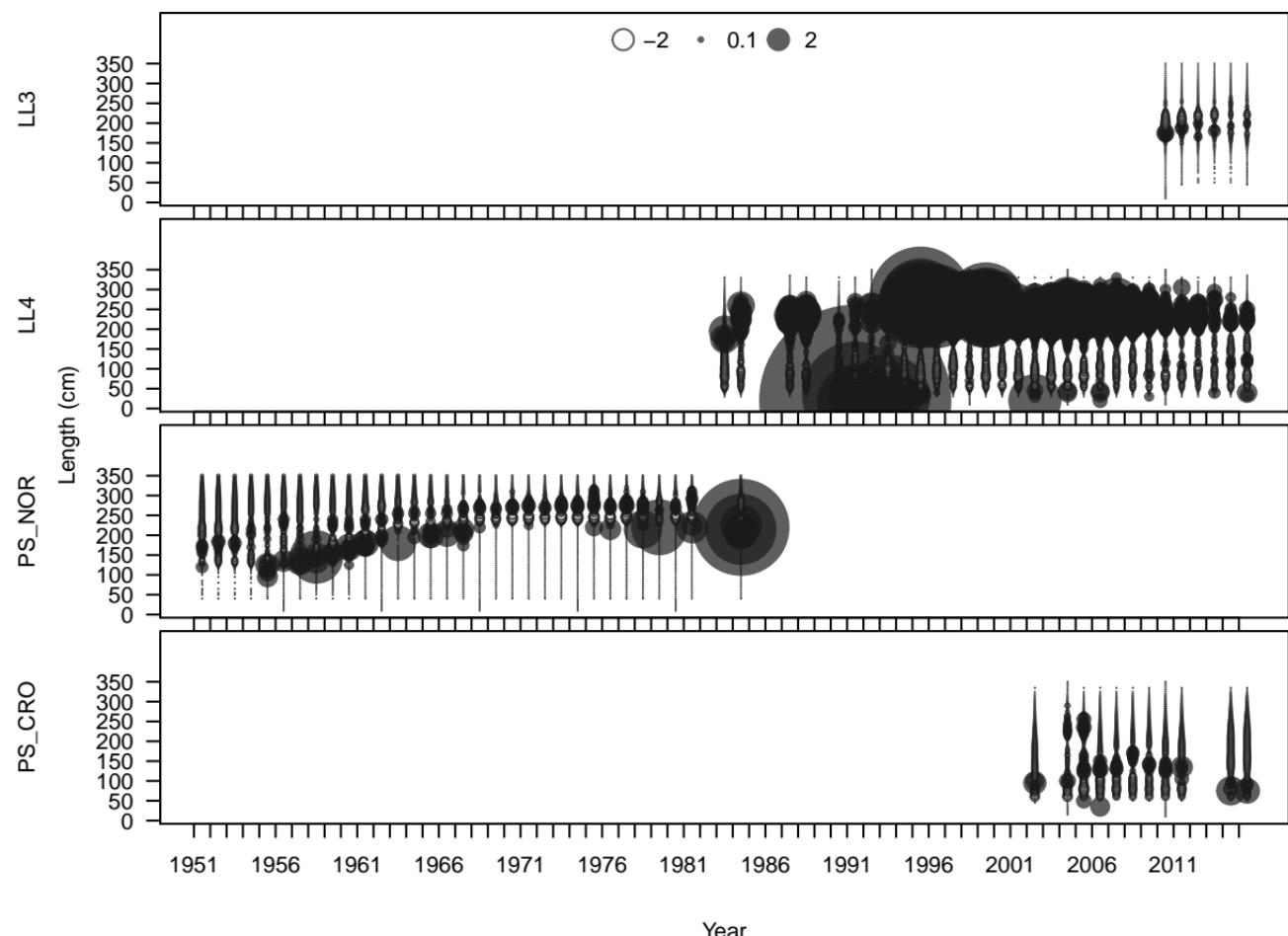
Length comps, aggregated across time by fleet



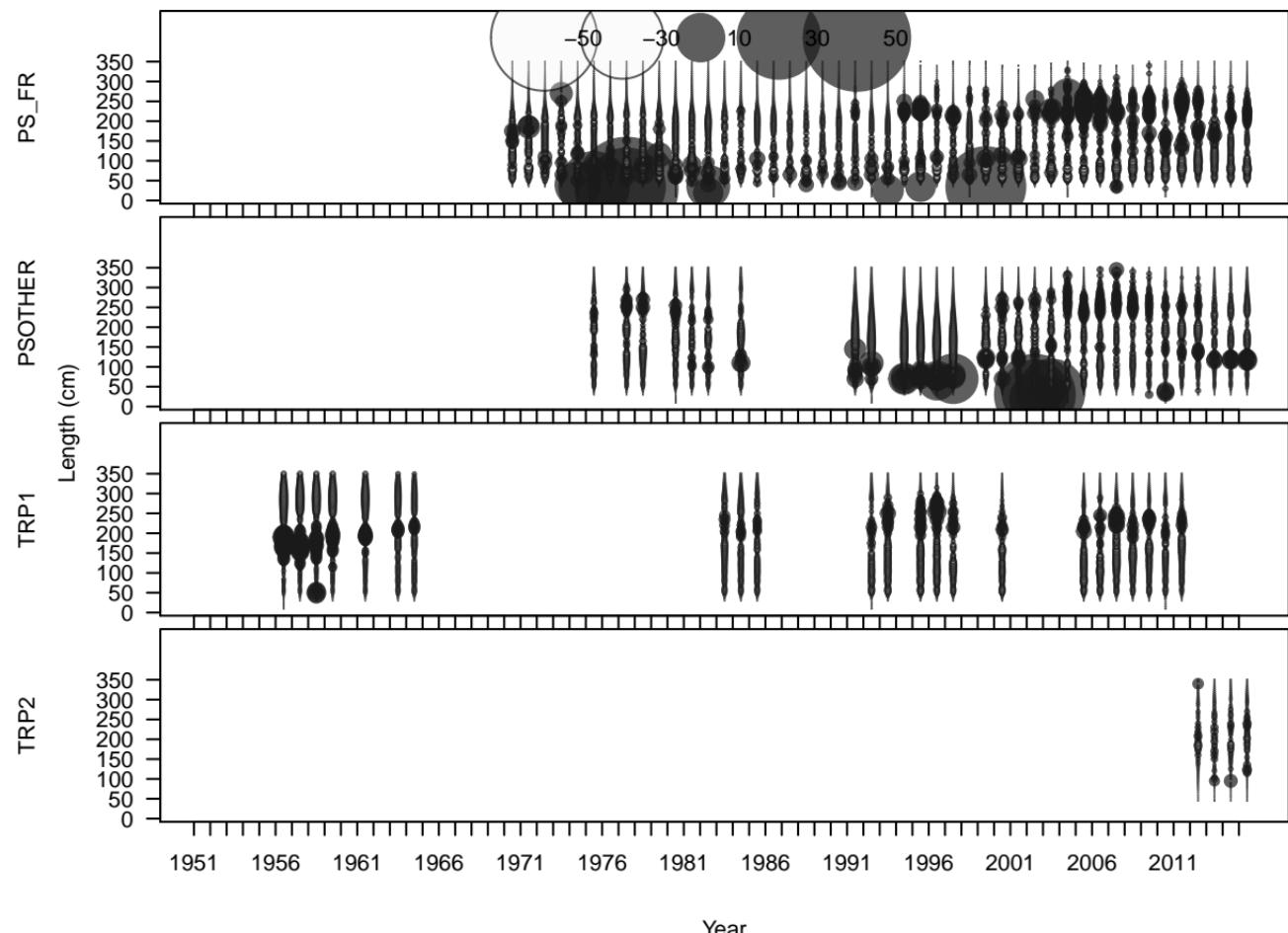
Pearson residuals, female, whole catch, comparing across fleets



Pearson residuals, female, whole catch, comparing across fleets

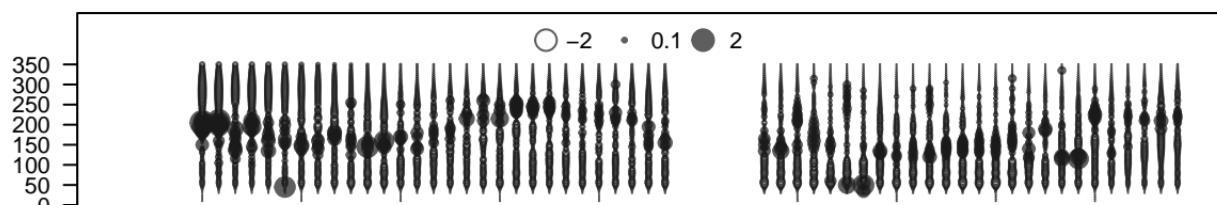


Pearson residuals, female, whole catch, comparing across fleets

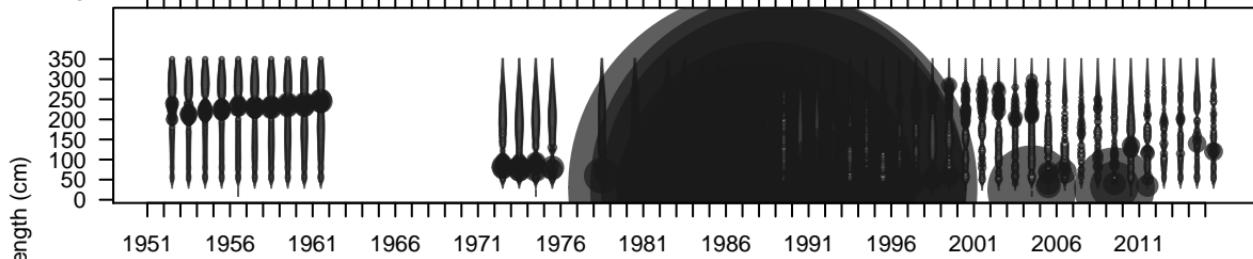


Pearson residuals, female, whole catch, comparing across fleets

TRPOTHER



OTR

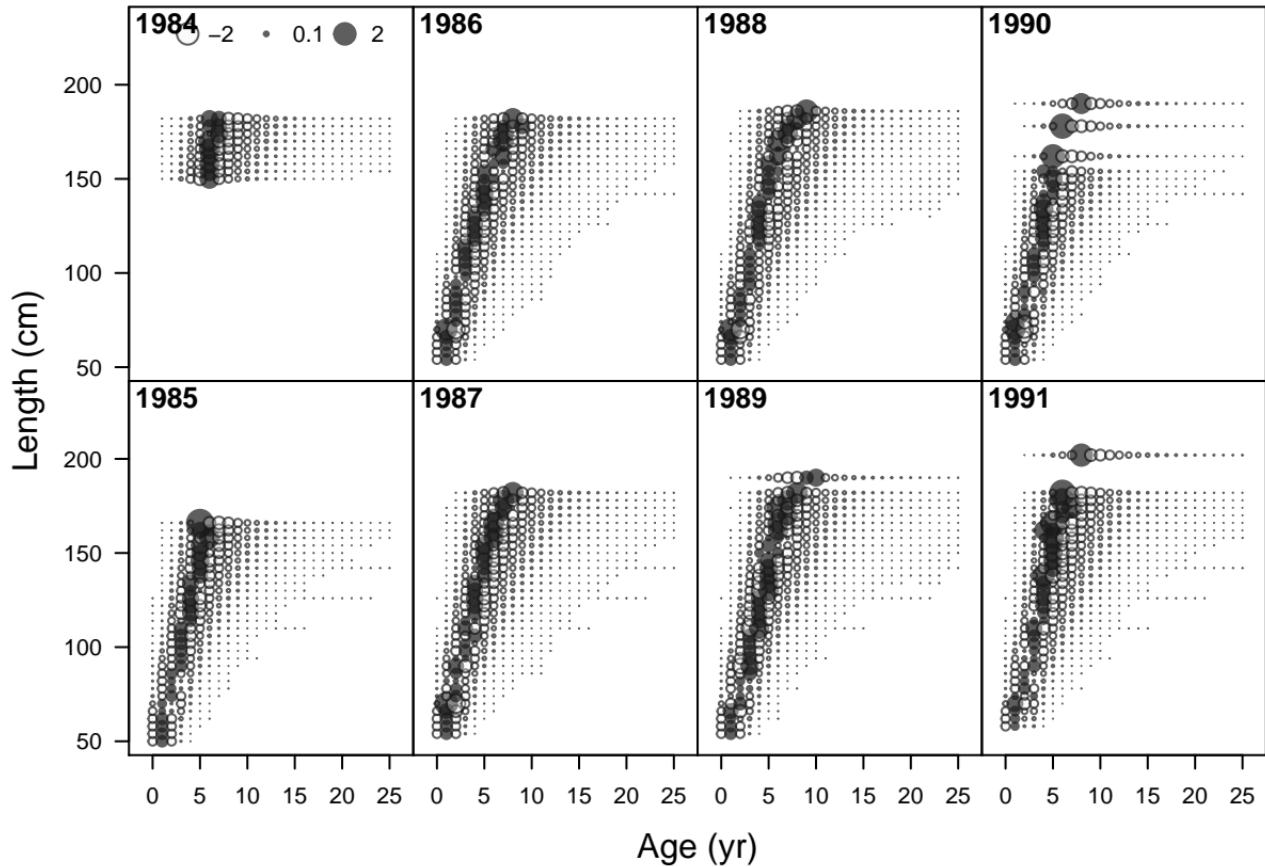


Length (cm)

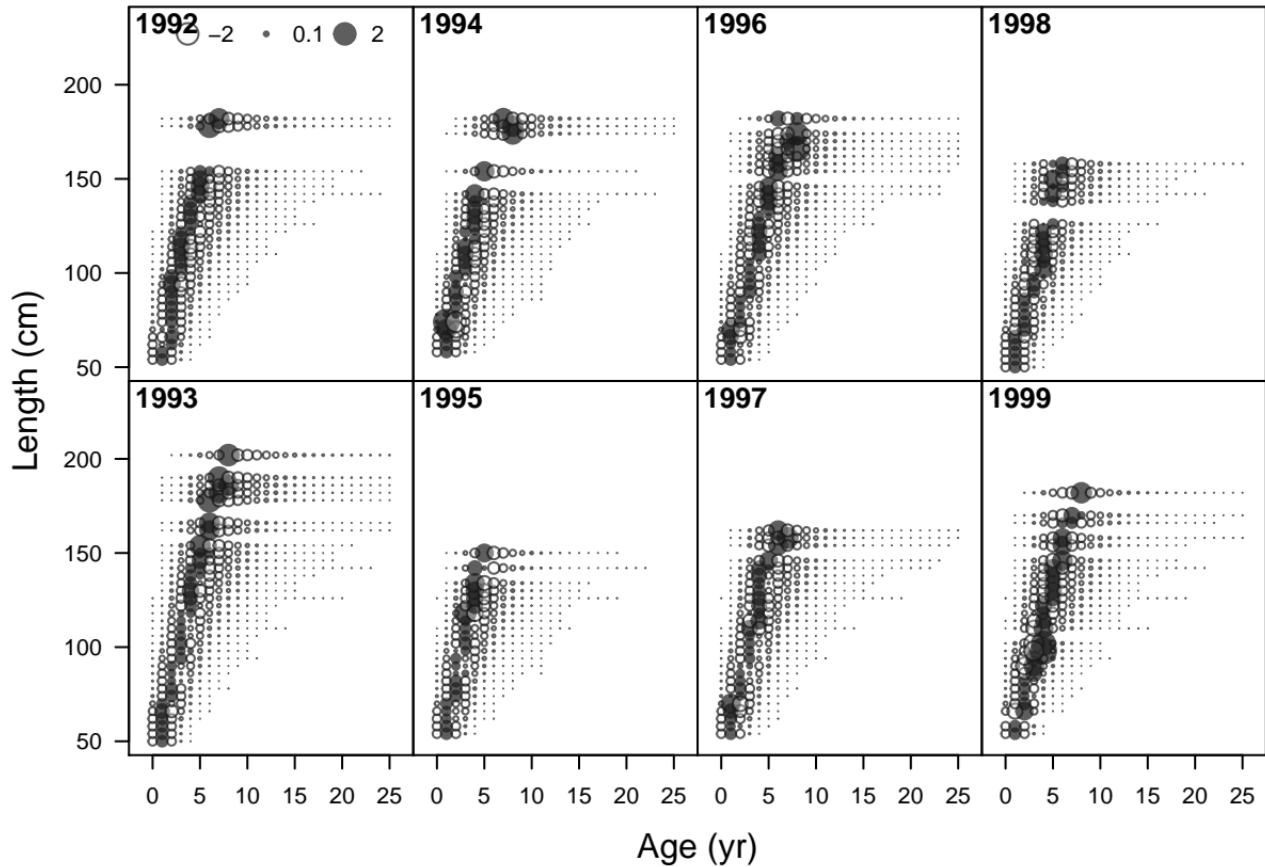
1951 1956 1961 1966 1971 1976 1981 1986 1991 1996 2001 2006 2011

Year

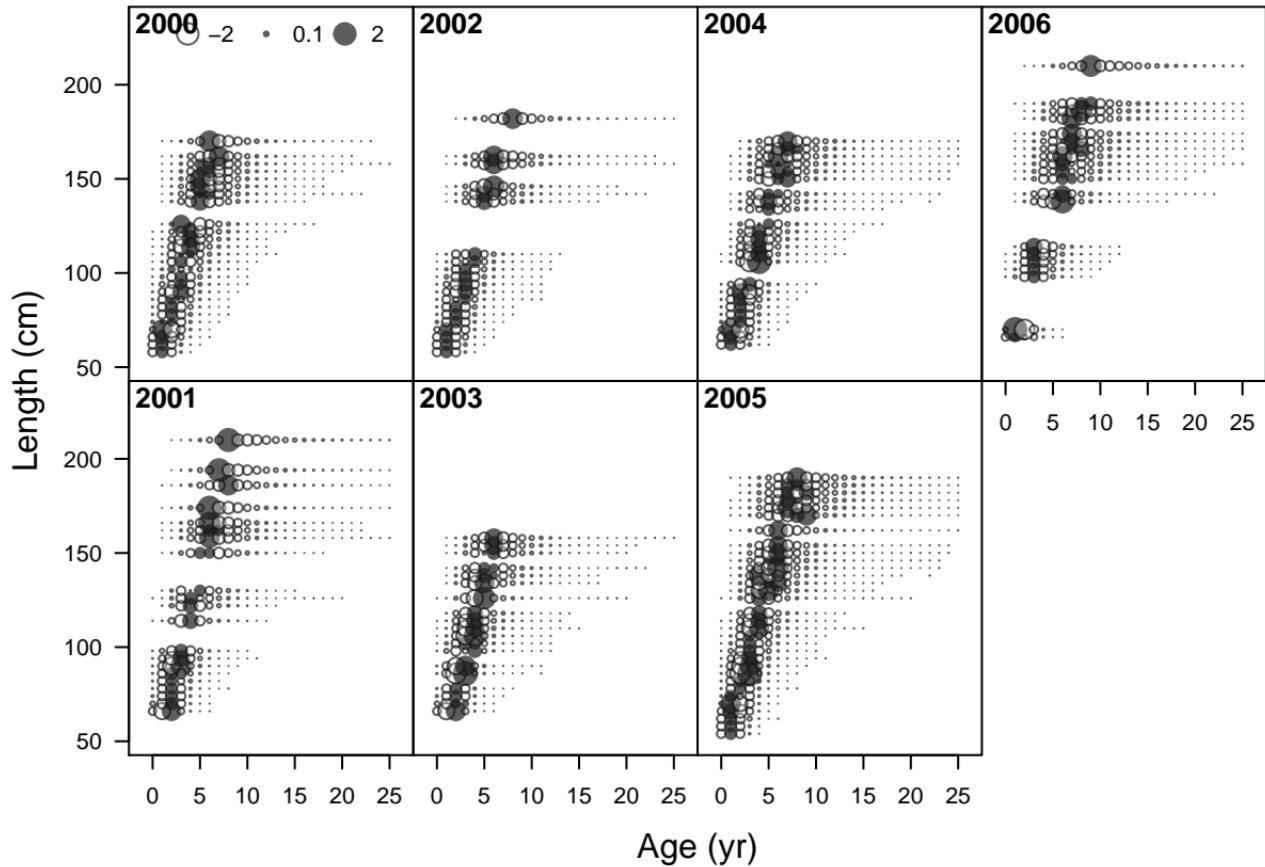
Pearson residuals, whole catch, BB52_06 (max=2.92)



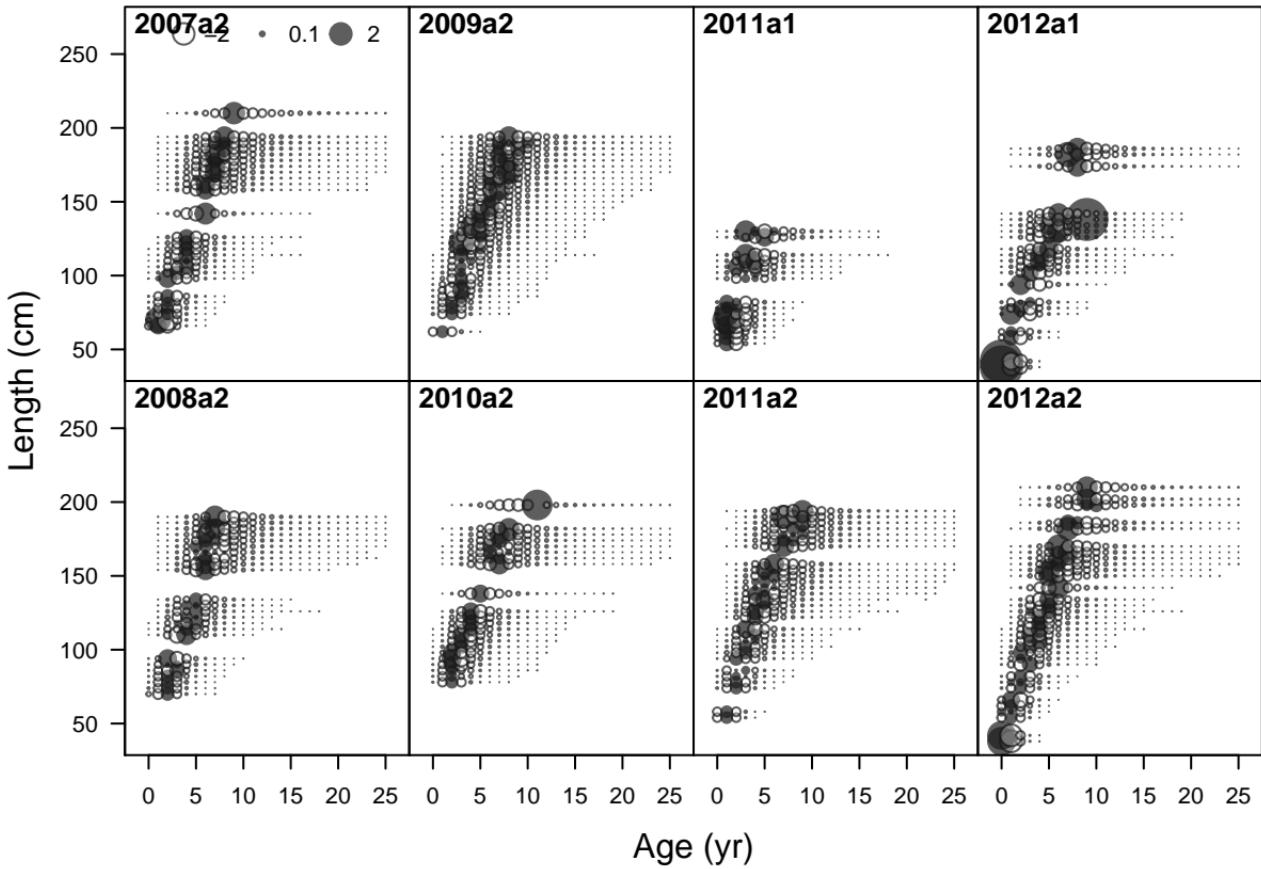
Pearson residuals, whole catch, BB52_06 (max=2.92)



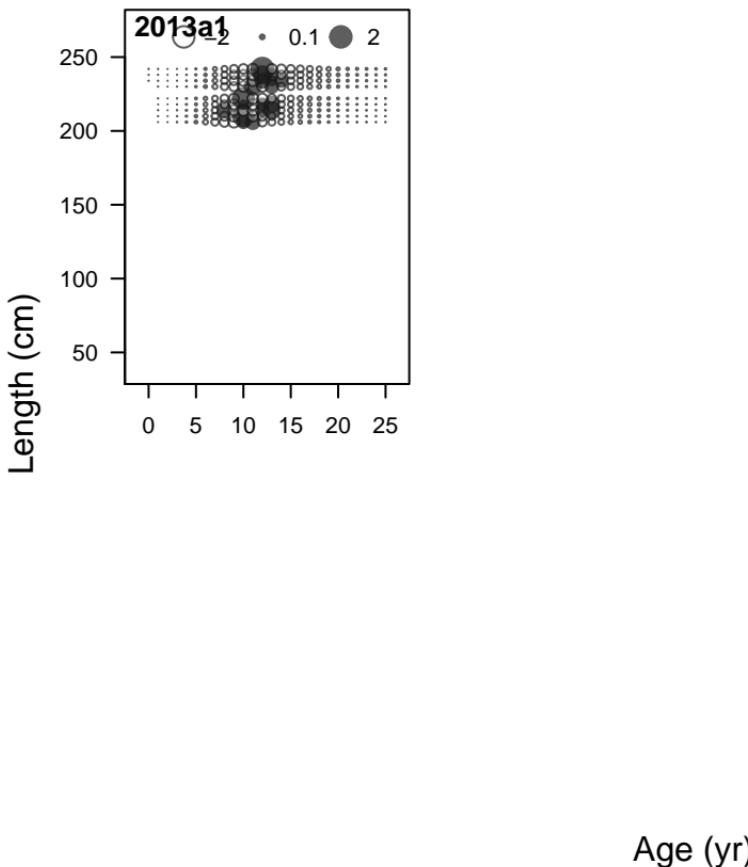
Pearson residuals, whole catch, BB52_06 (max=2.92)



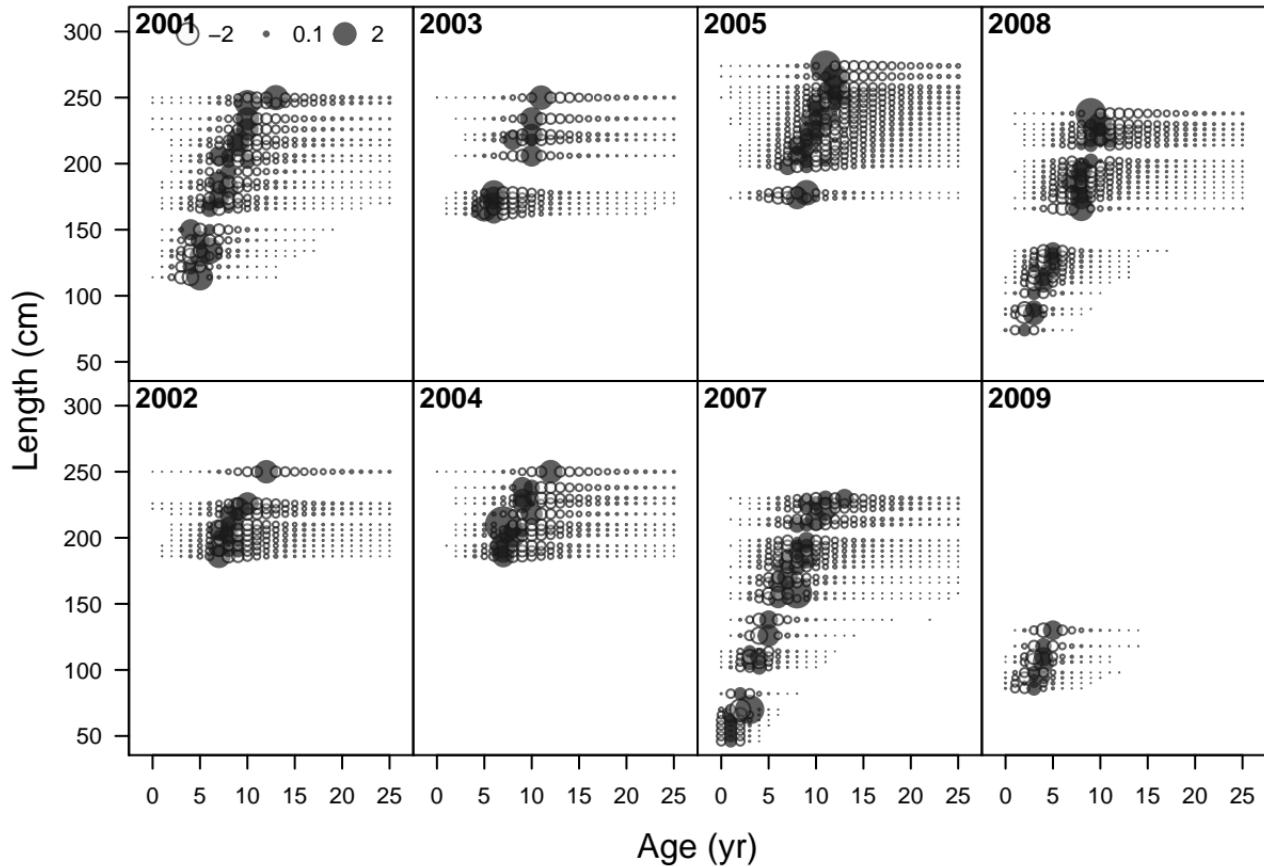
Pearson residuals, whole catch, BB06_15 (max=7.39)



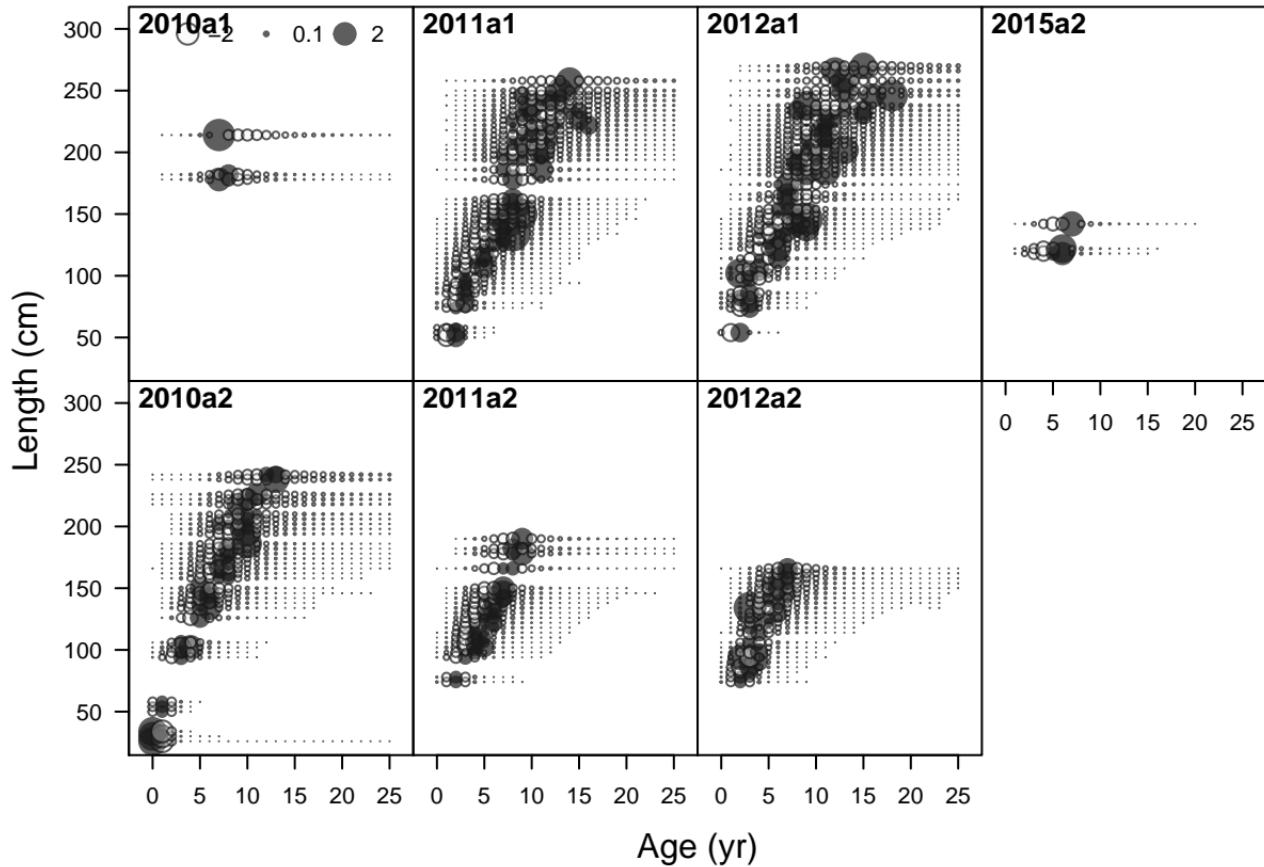
Pearson residuals, whole catch, BB06_15 (max=7.39)



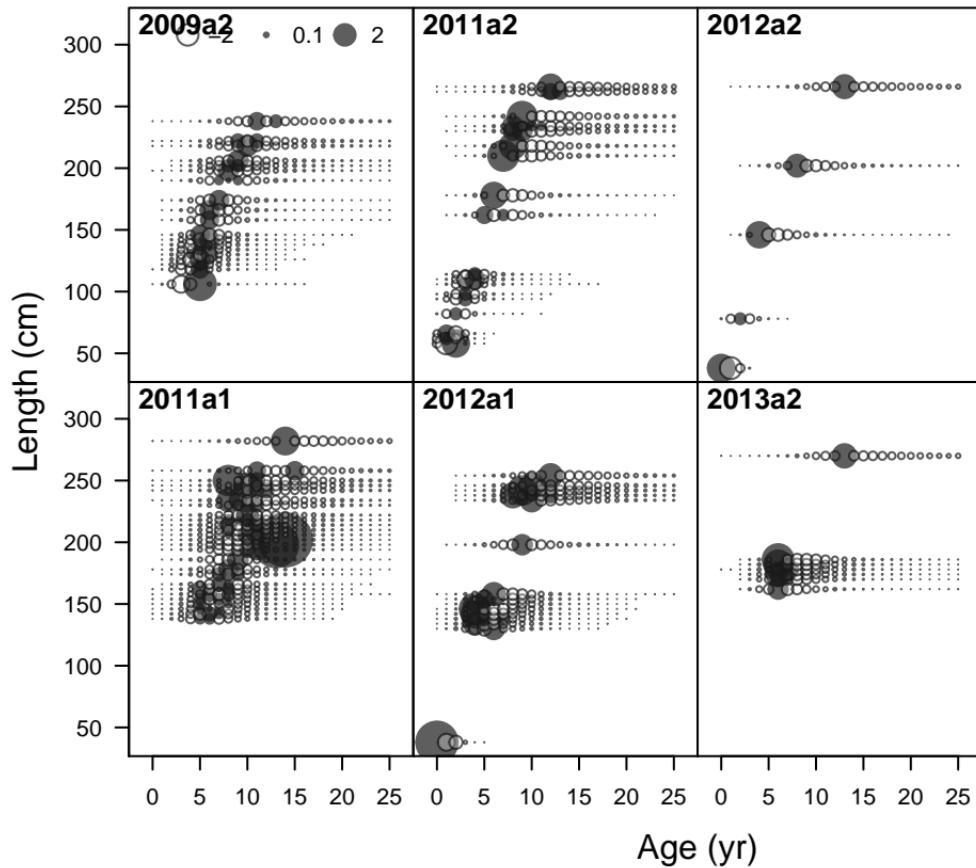
Pearson residuals, whole catch, LL1 (max=5.14)



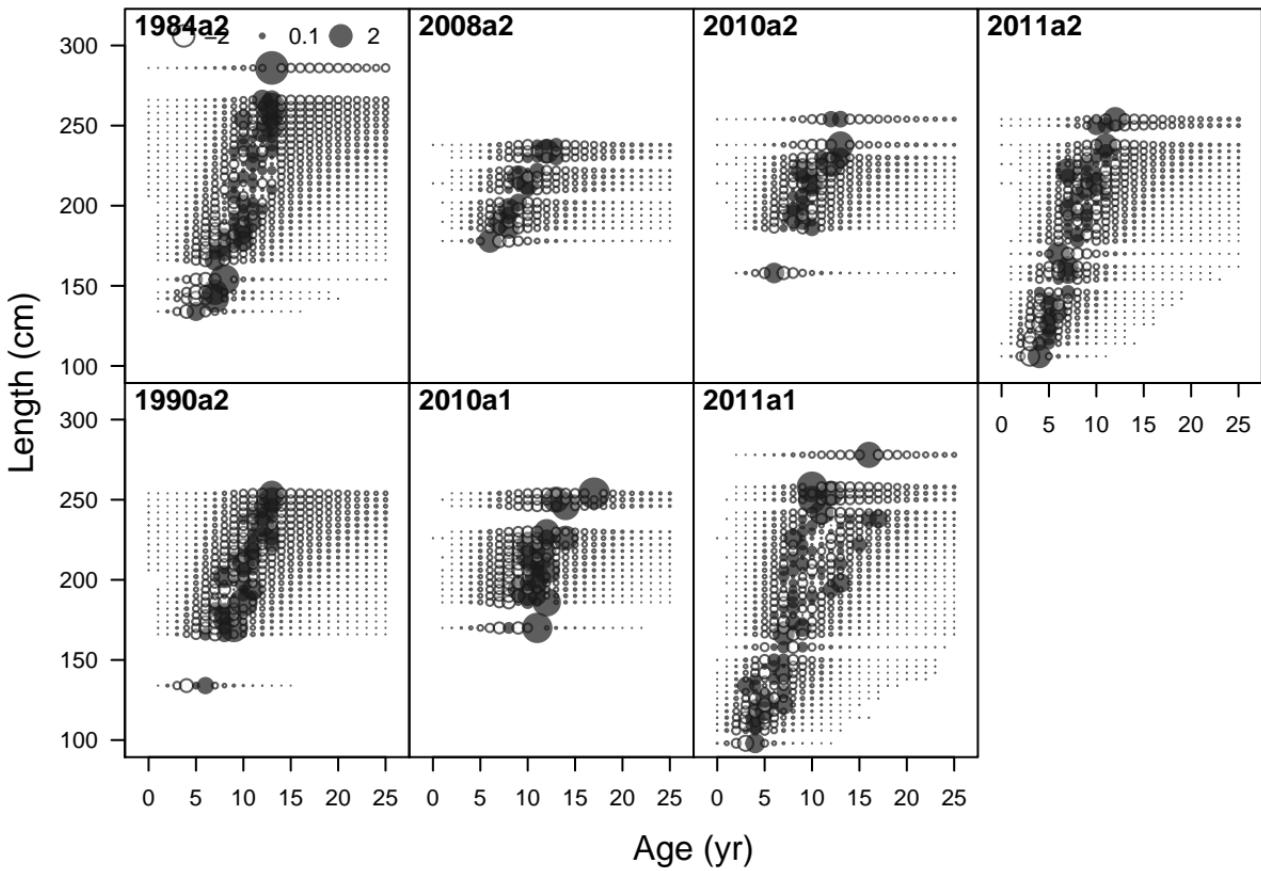
Pearson residuals, whole catch, LL3 (max=4.81)



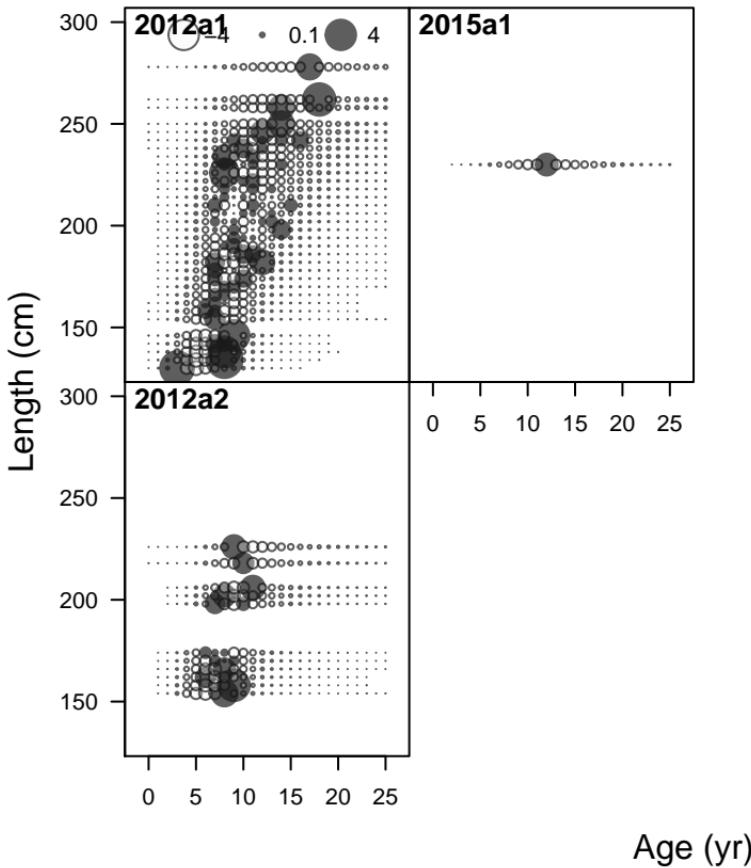
Pearson residuals, whole catch, PS_FR (max=12.3)



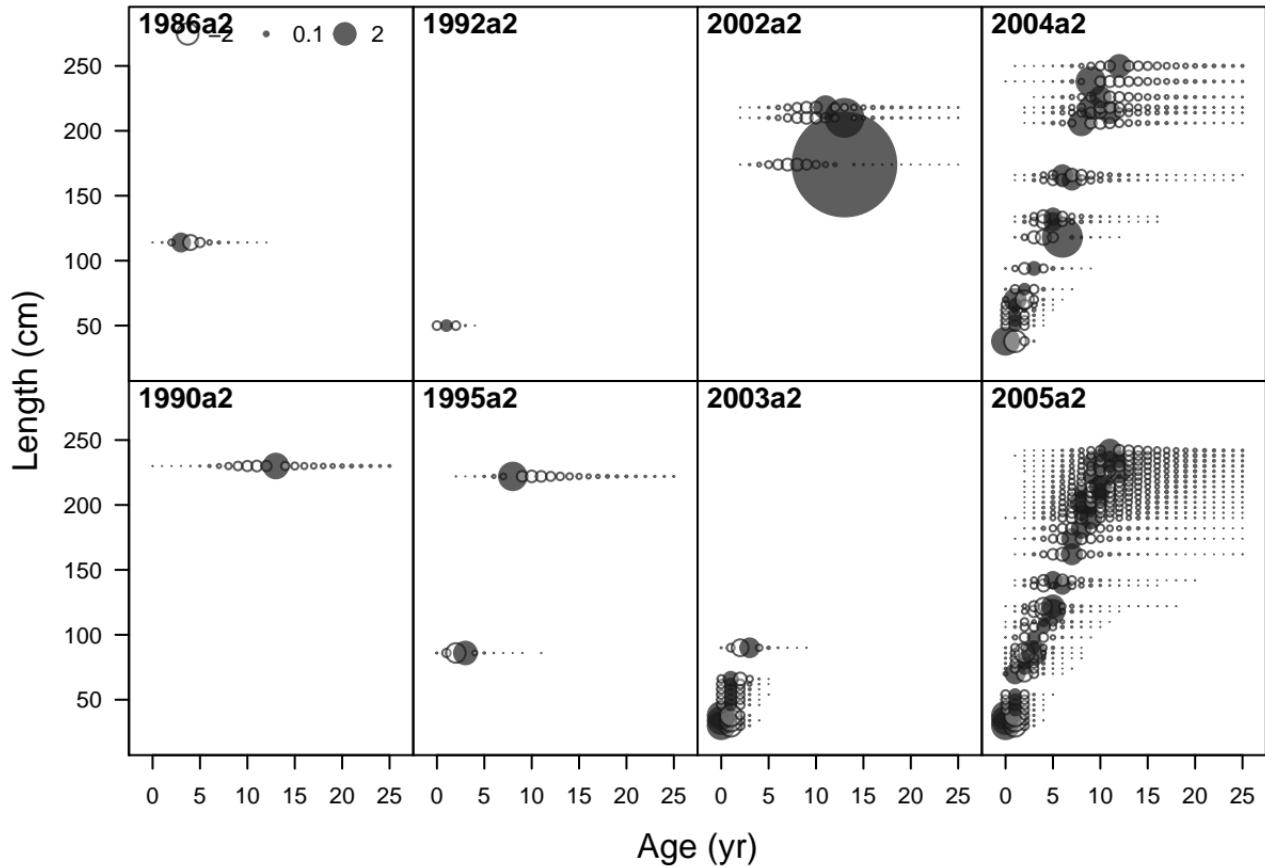
Pearson residuals, whole catch, TRP1 (max=4.3)



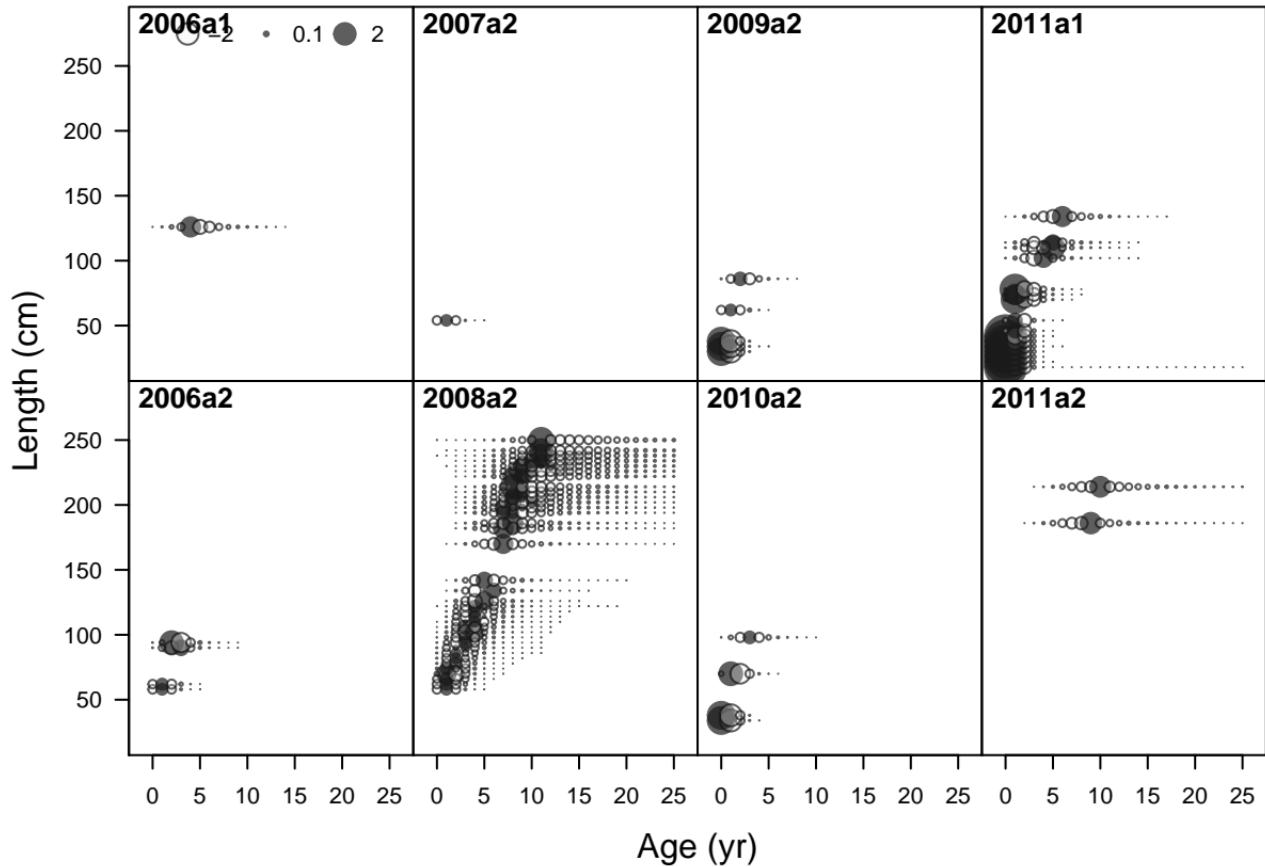
Pearson residuals, whole catch, TRP2 (max=5.61)



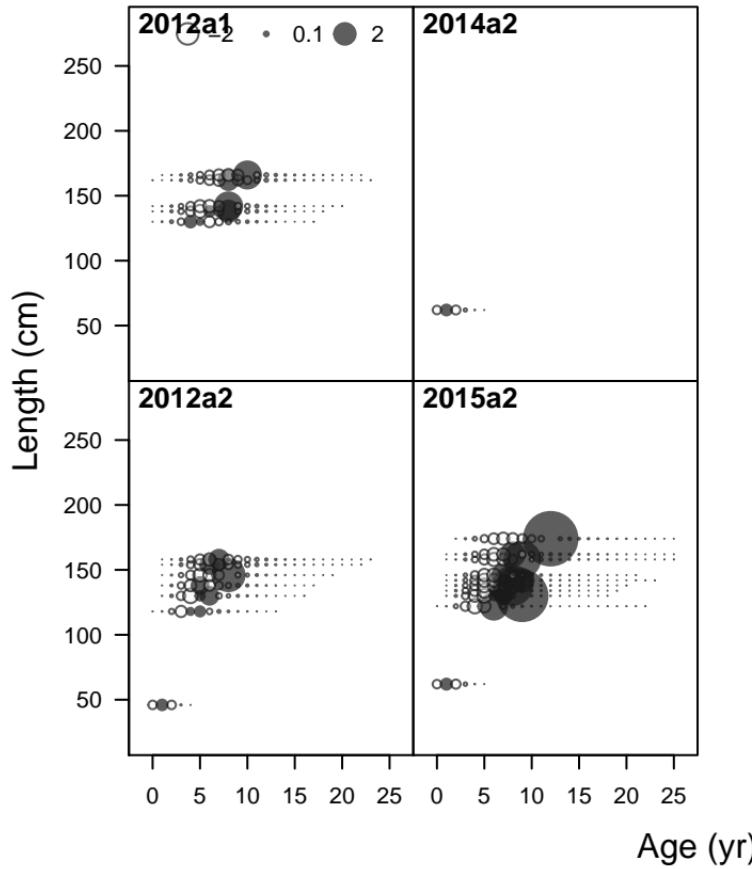
Pearson residuals, whole catch, OTR (max=46.34)



Pearson residuals, whole catch, OTR (max=46.34)

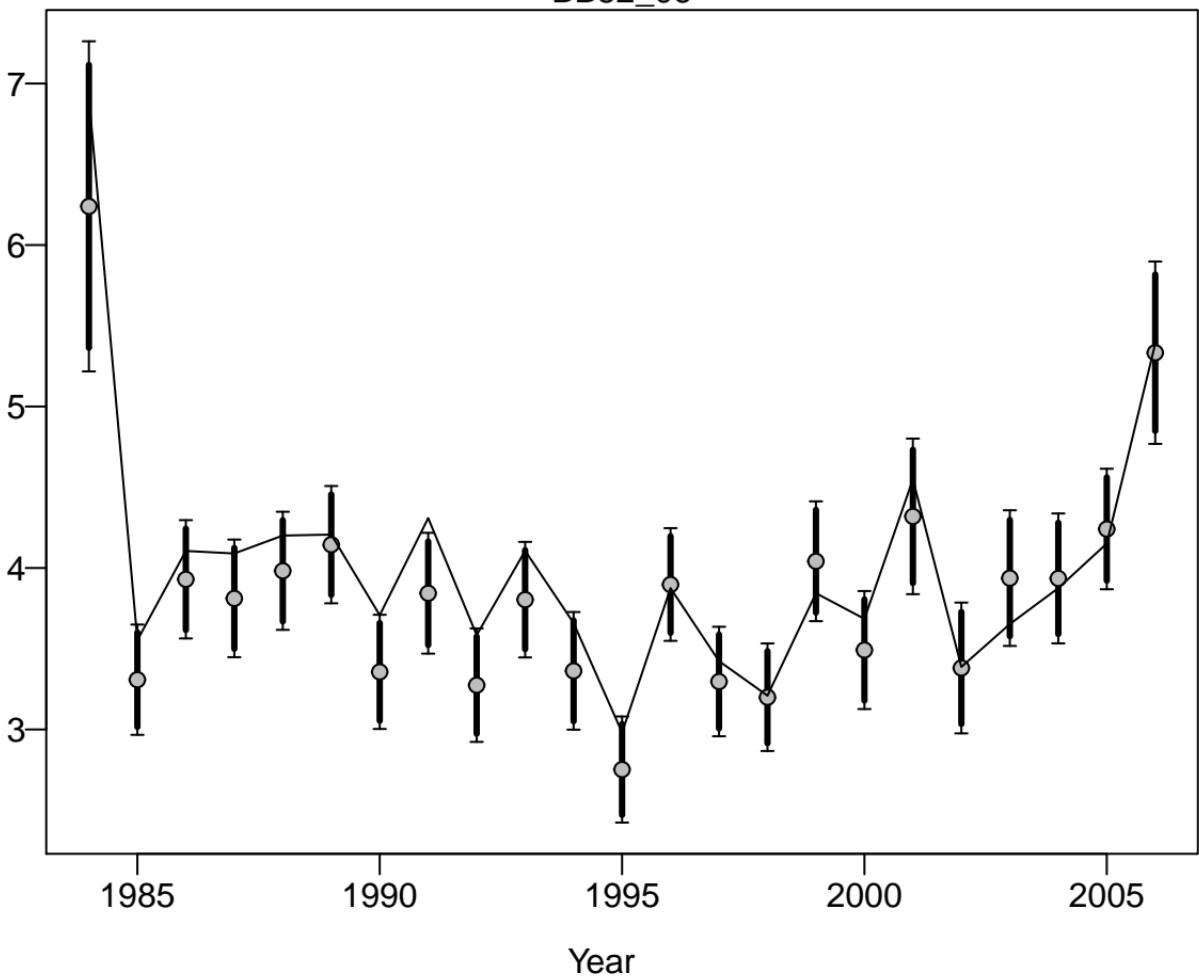


Pearson residuals, whole catch, OTR (max=46.34)

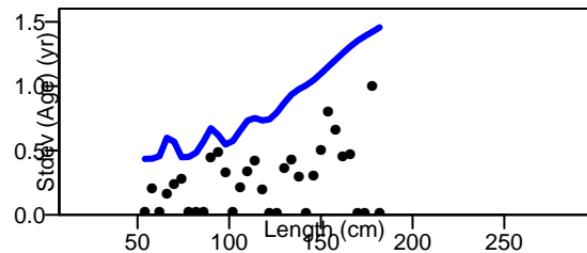
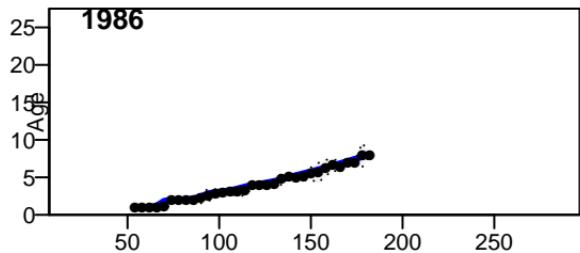
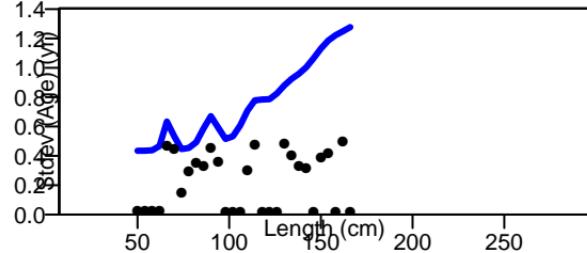
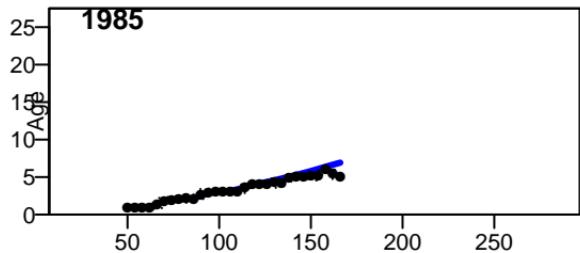
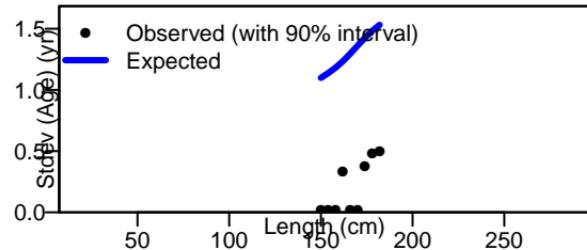
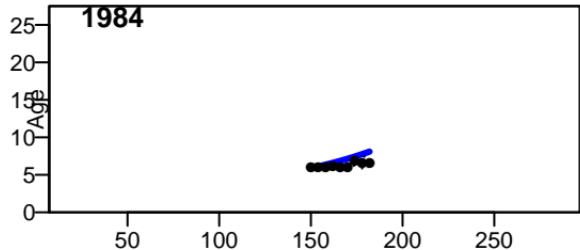


BB52_06

Mean age

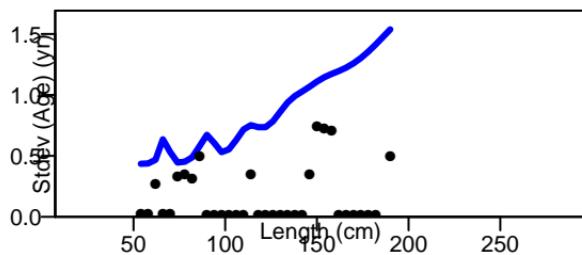
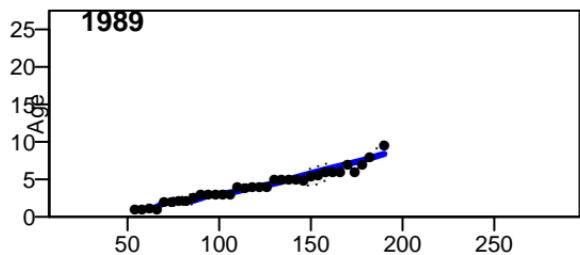
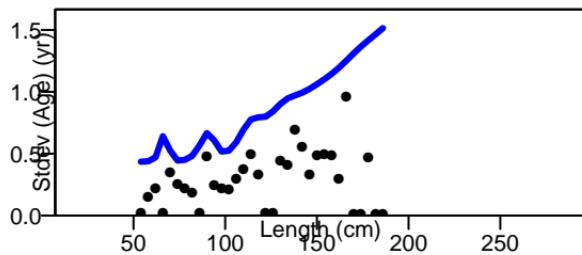
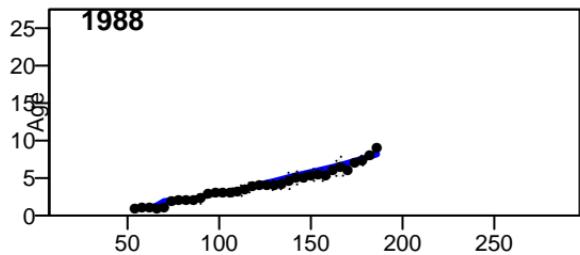
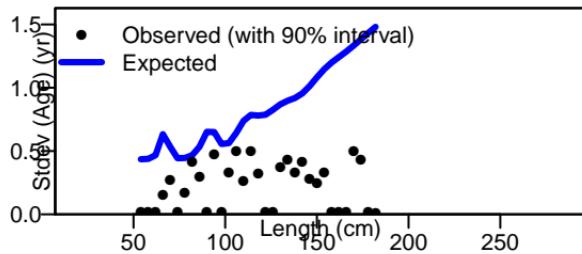
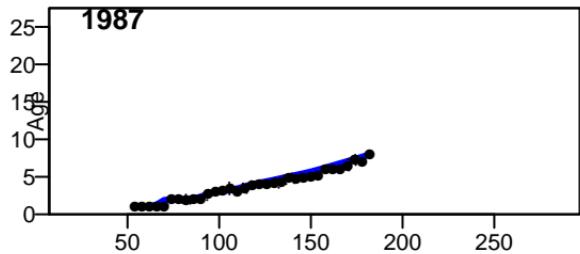


Conditional AAL plot, whole catch, BB52_06



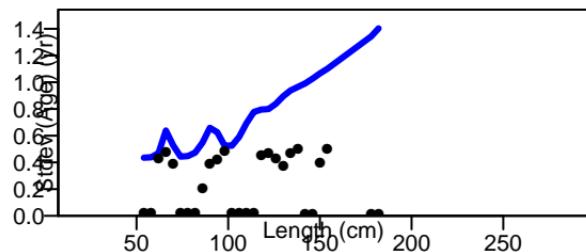
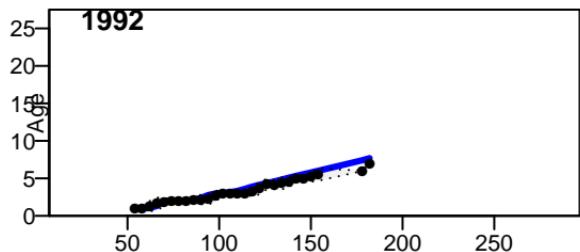
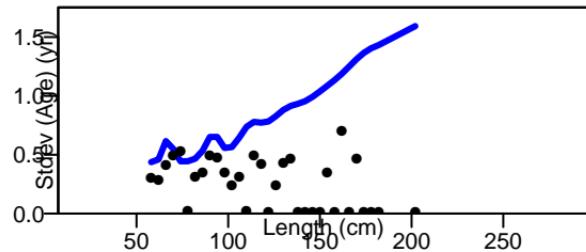
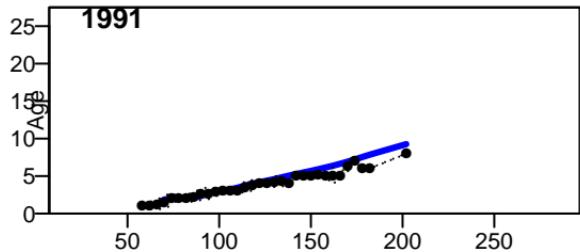
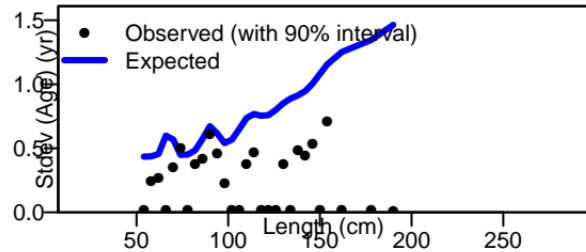
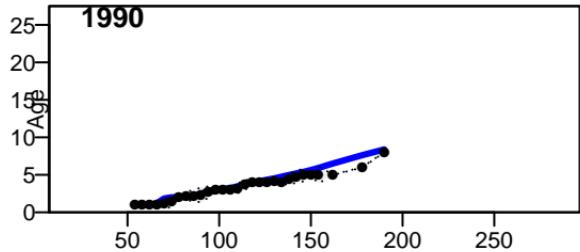
Length (cm)

Conditional AAL plot, whole catch, BB52_06



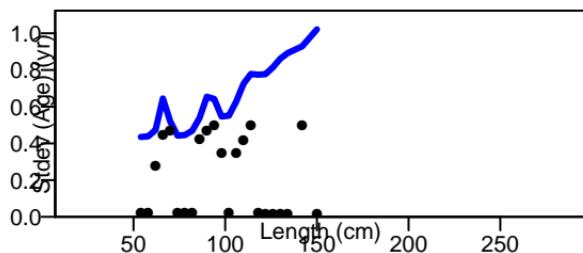
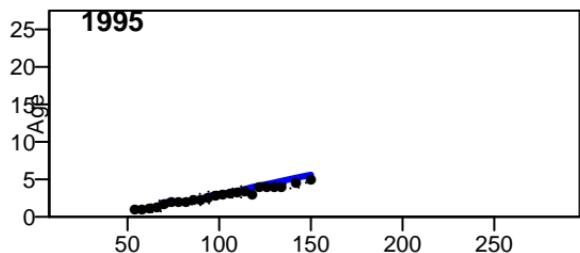
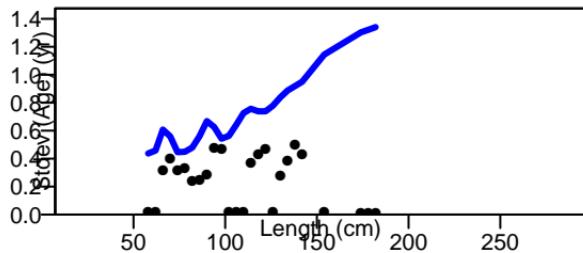
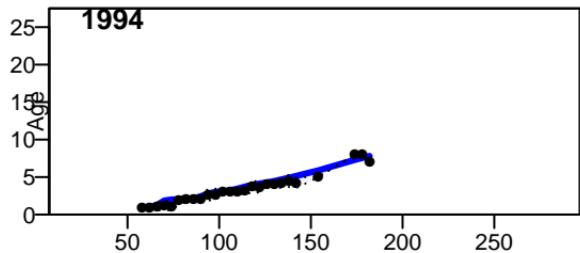
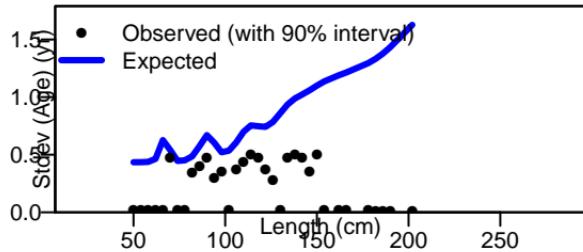
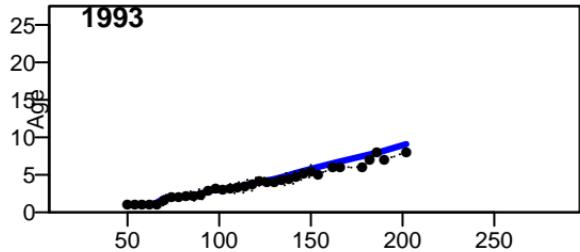
Length (cm)

Conditional AAL plot, whole catch, BB52_06



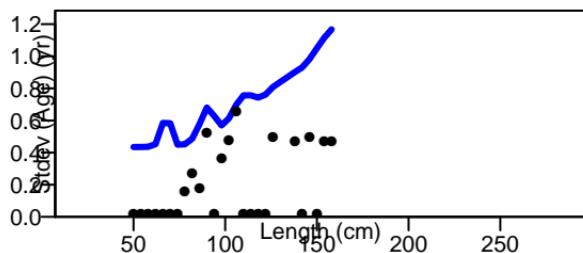
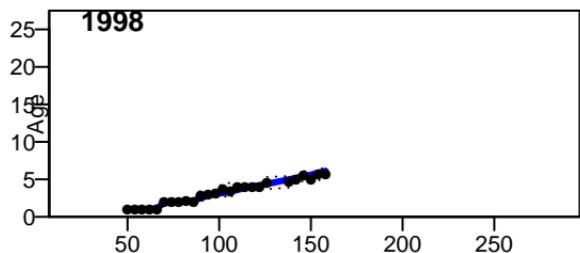
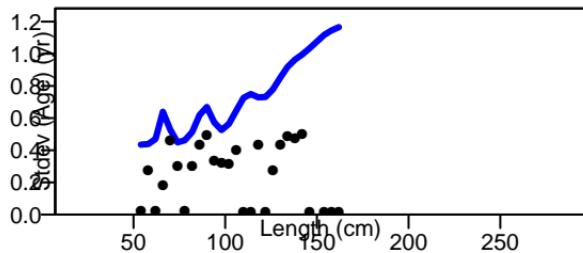
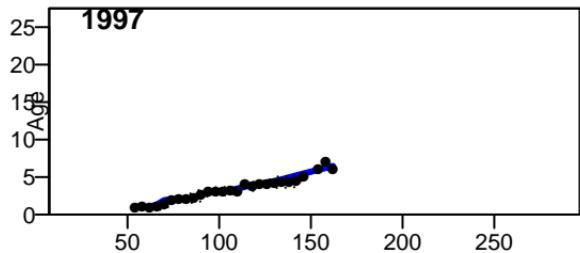
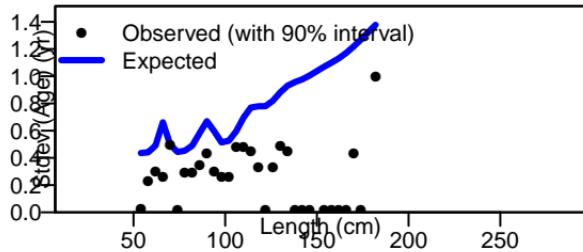
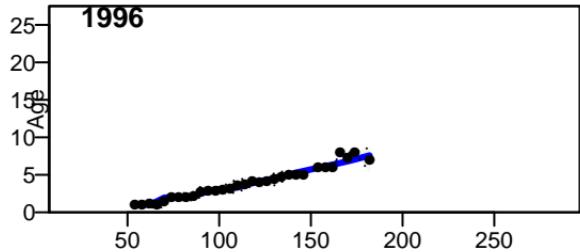
Length (cm)

Conditional AAL plot, whole catch, BB52_06



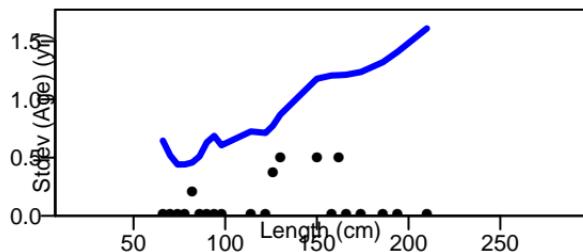
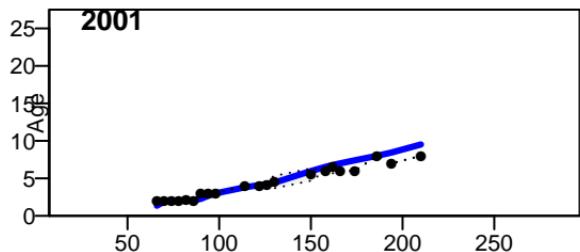
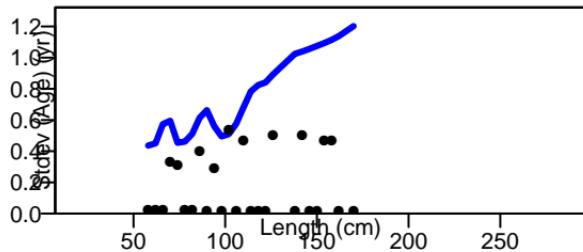
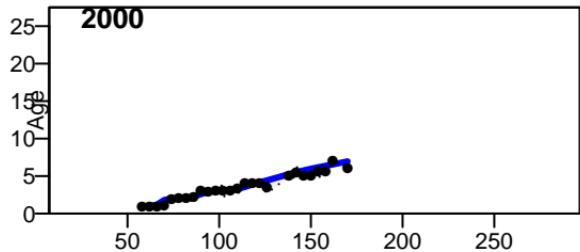
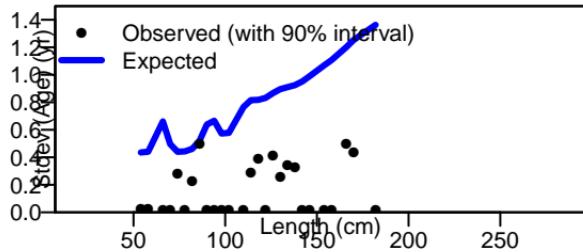
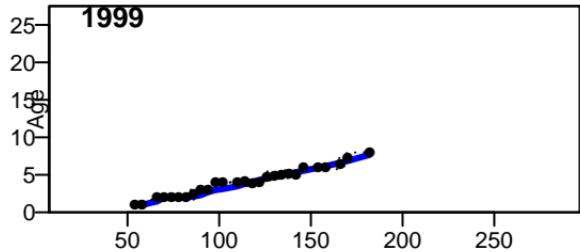
Length (cm)

Conditional AAL plot, whole catch, BB52_06



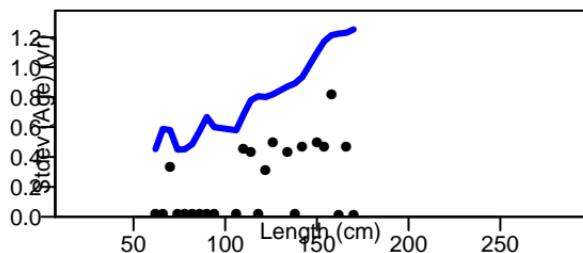
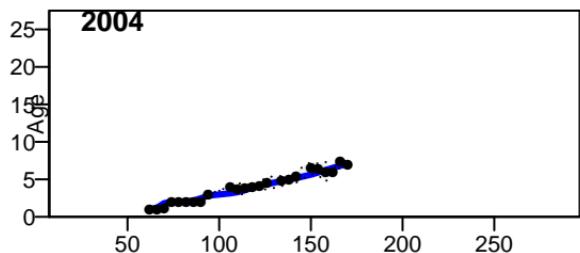
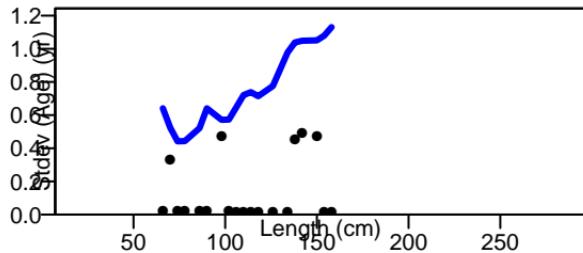
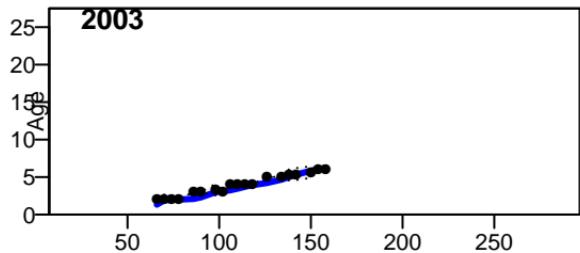
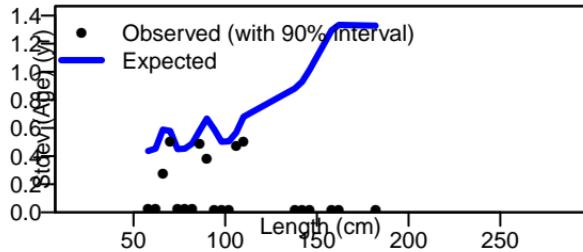
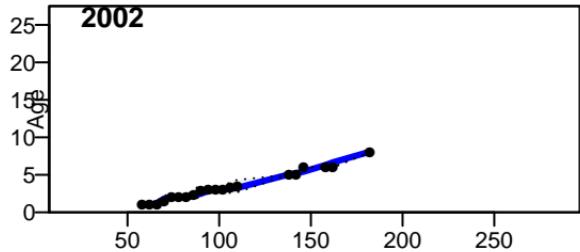
Length (cm)

Conditional AAL plot, whole catch, BB52_06



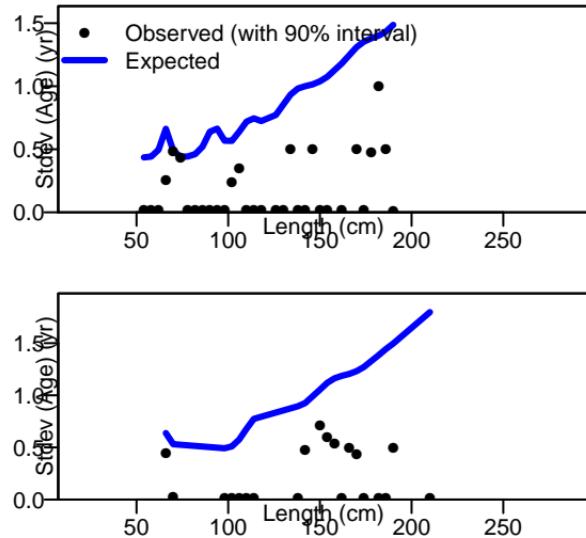
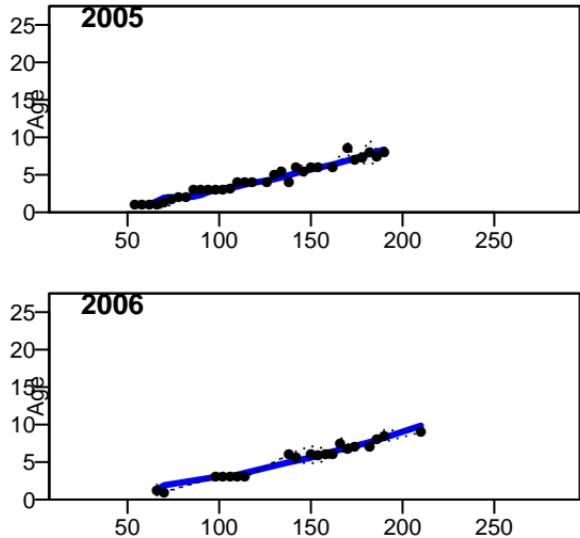
Length (cm)

Conditional AAL plot, whole catch, BB52_06



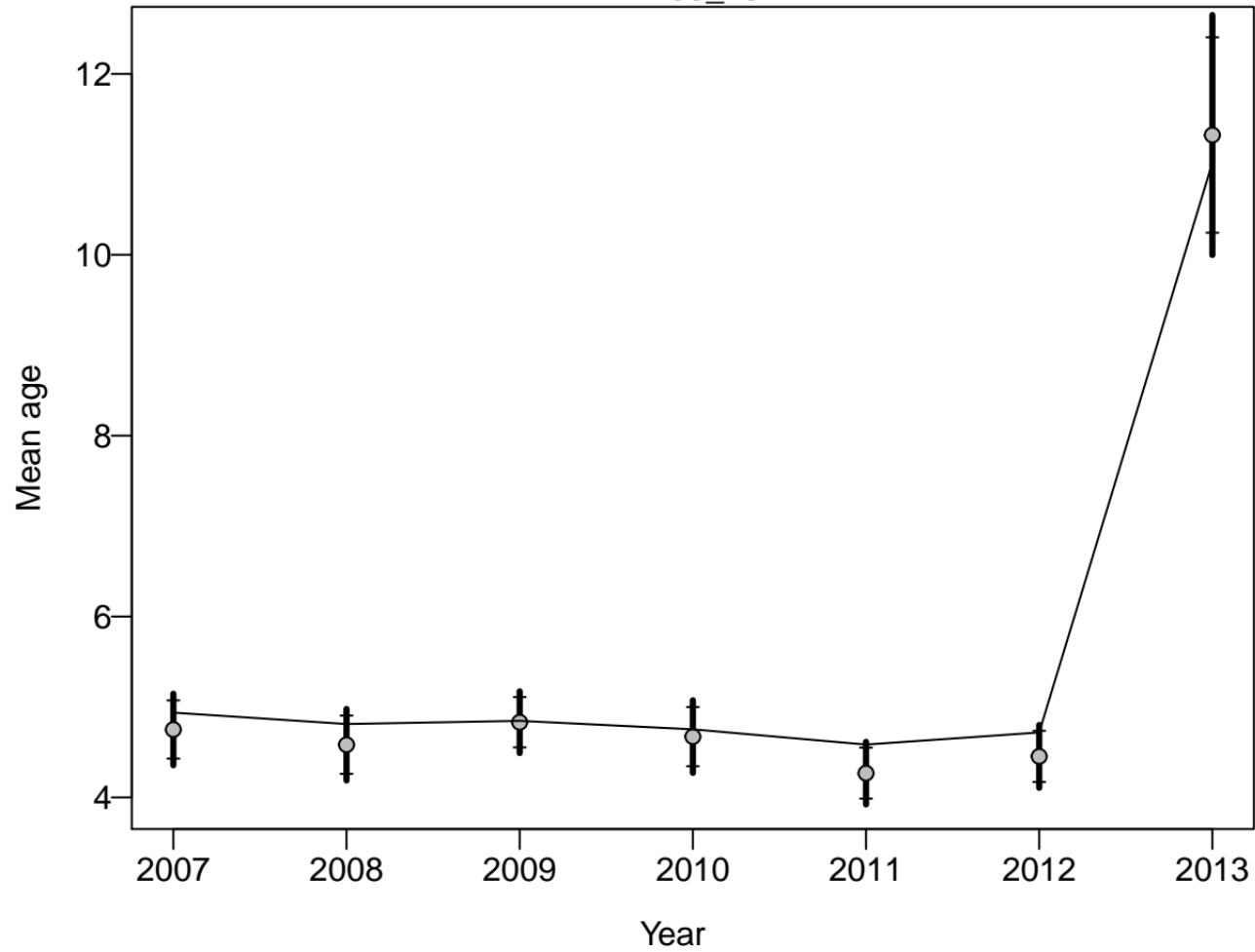
Length (cm)

Conditional AAL plot, whole catch, BB52_06

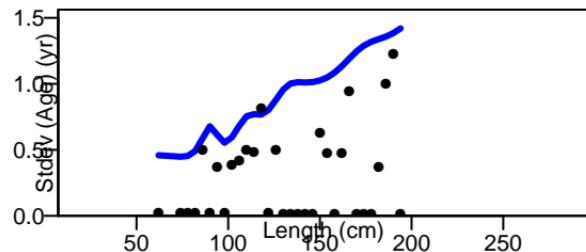
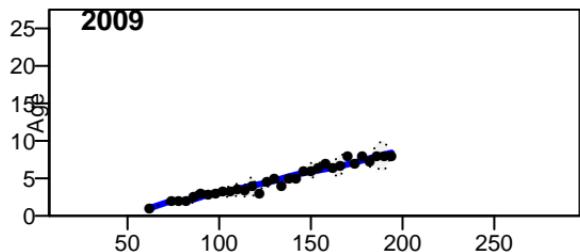
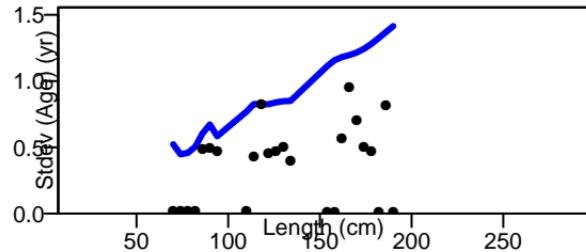
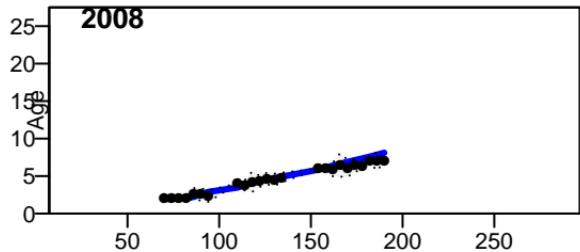
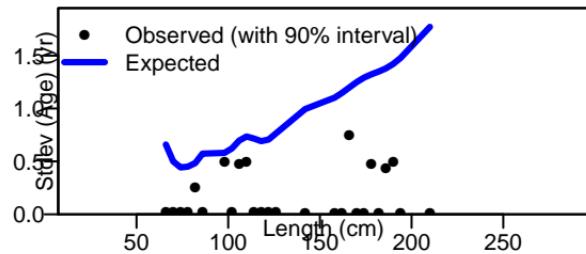
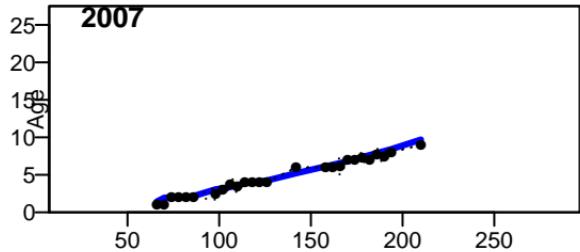


Length (cm)

BB06_15

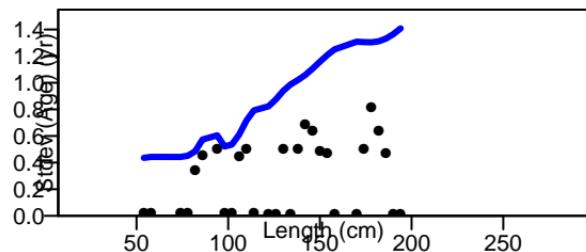
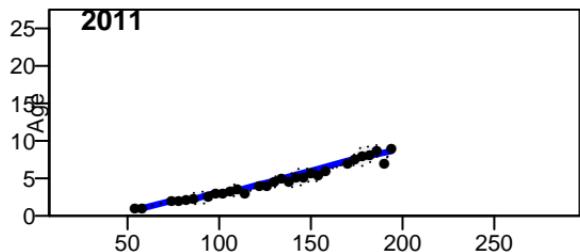
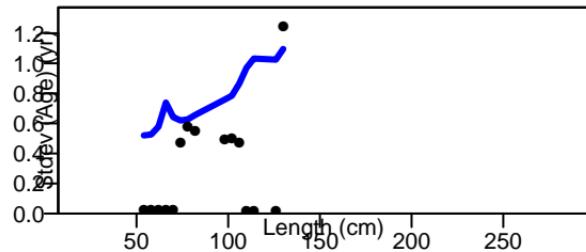
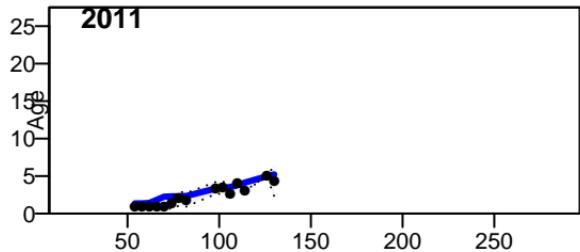
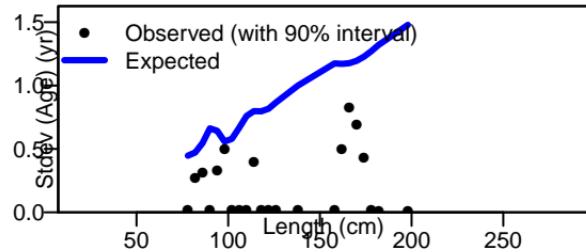
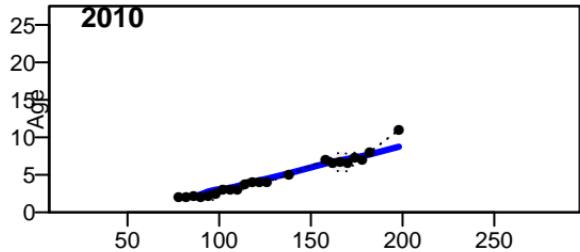


Conditional AAL plot, whole catch, BB06_15



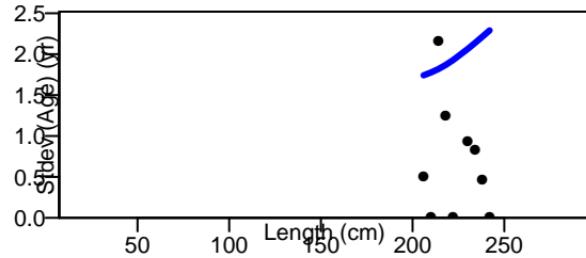
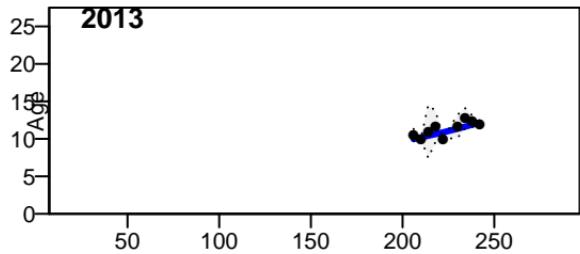
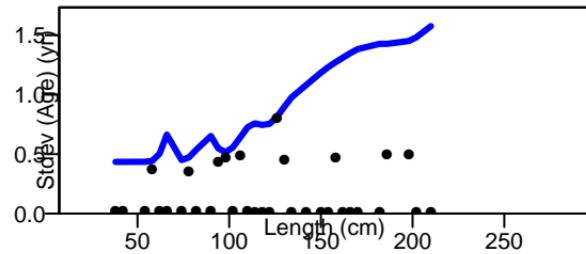
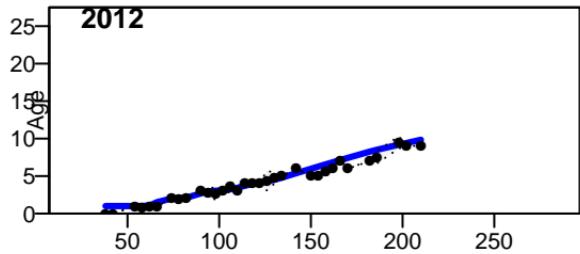
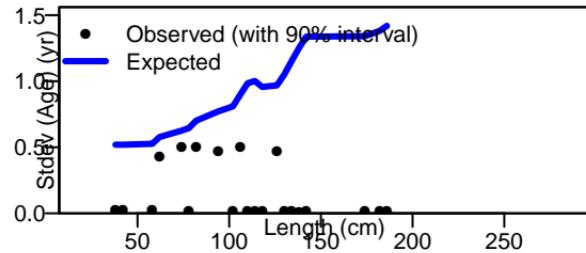
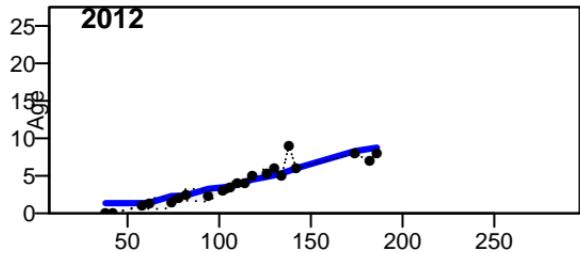
Length (cm)

Conditional AAL plot, whole catch, BB06_15



Length (cm)

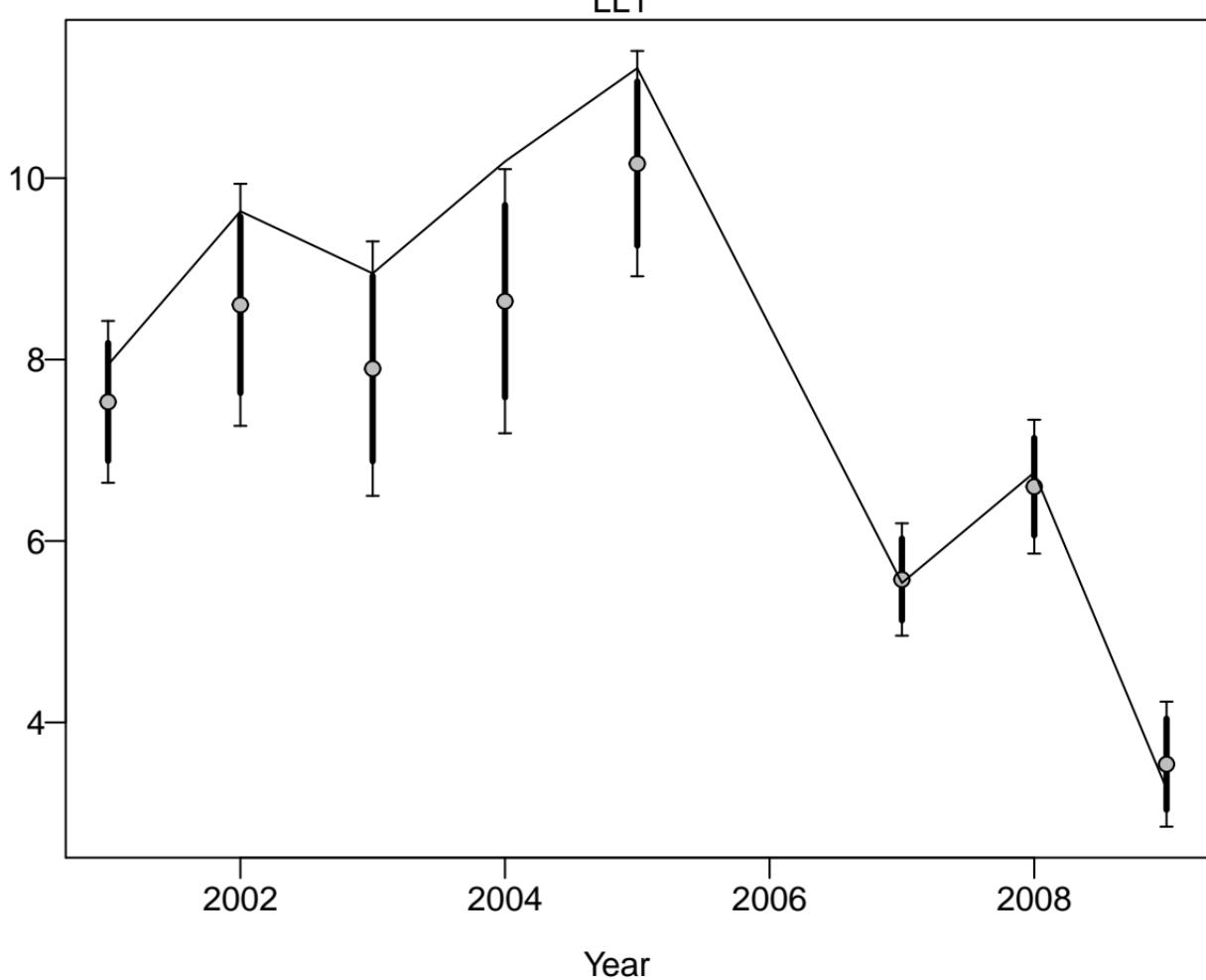
Conditional AAL plot, whole catch, BB06_15



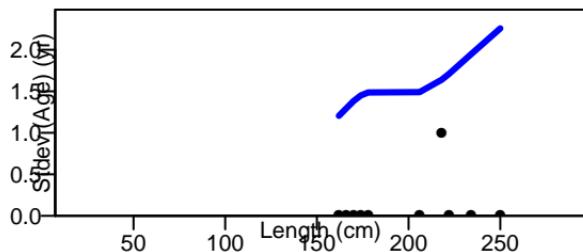
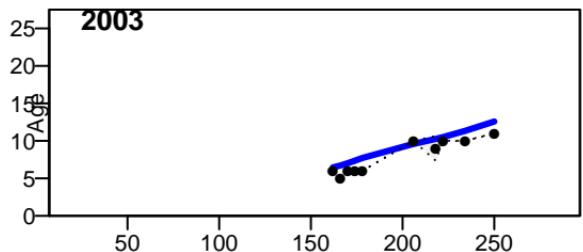
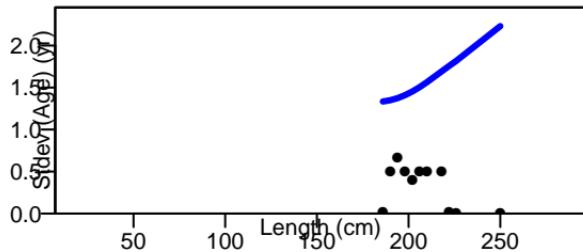
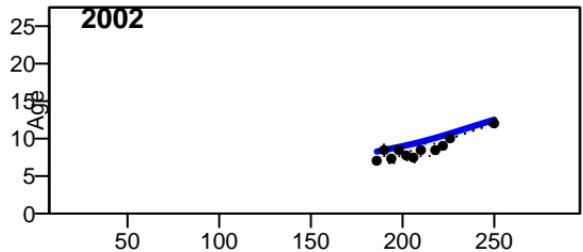
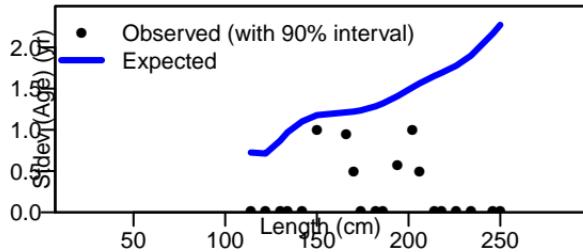
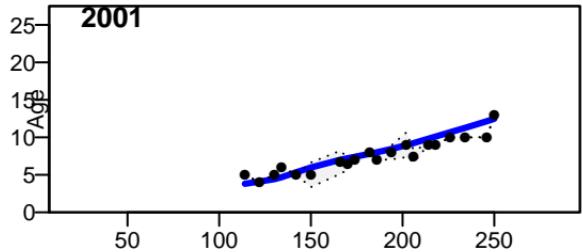
Length (cm)

LL1

Mean age

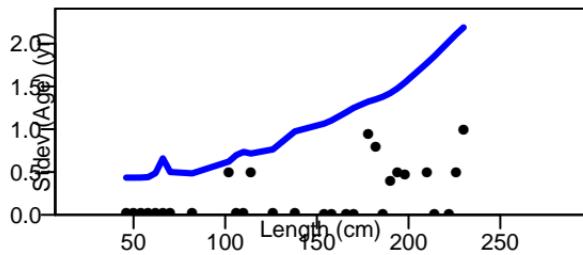
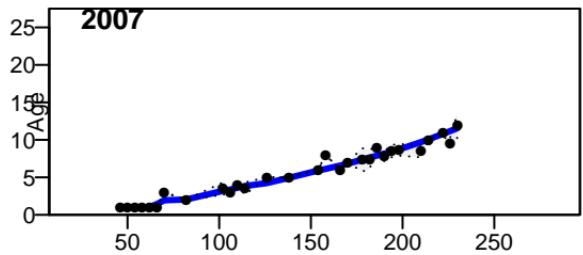
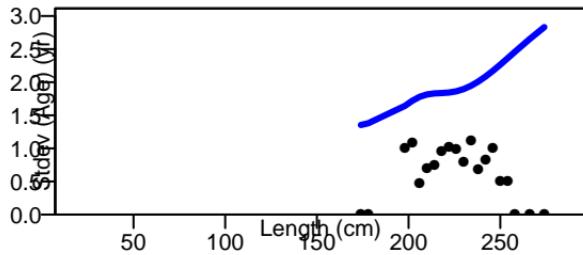
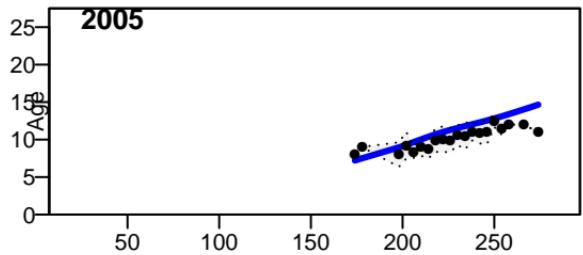
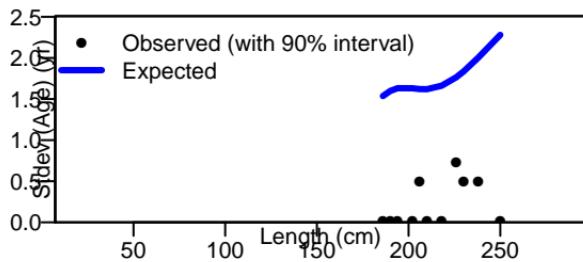
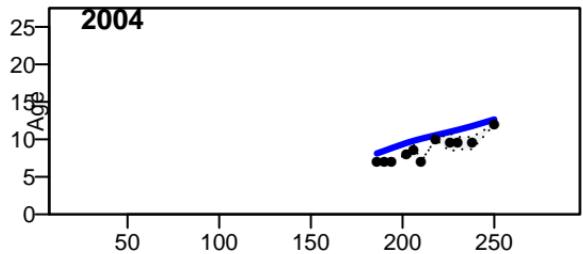


Conditional AAL plot, whole catch, LL1



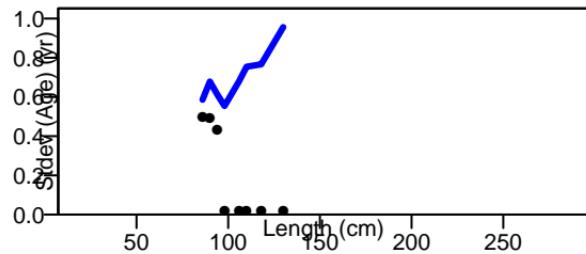
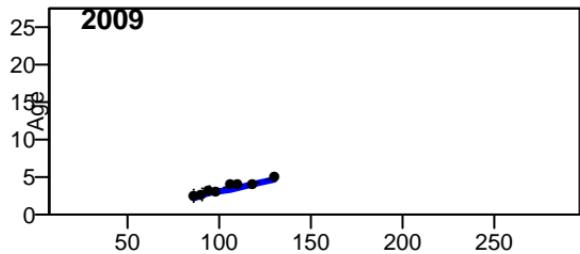
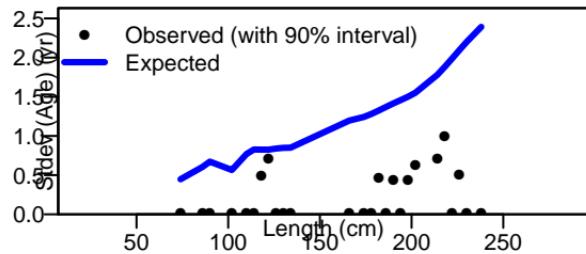
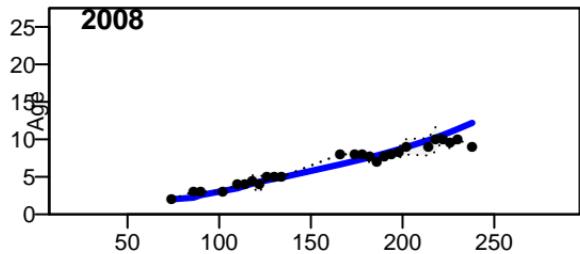
Length (cm)

Conditional AAL plot, whole catch, LL1



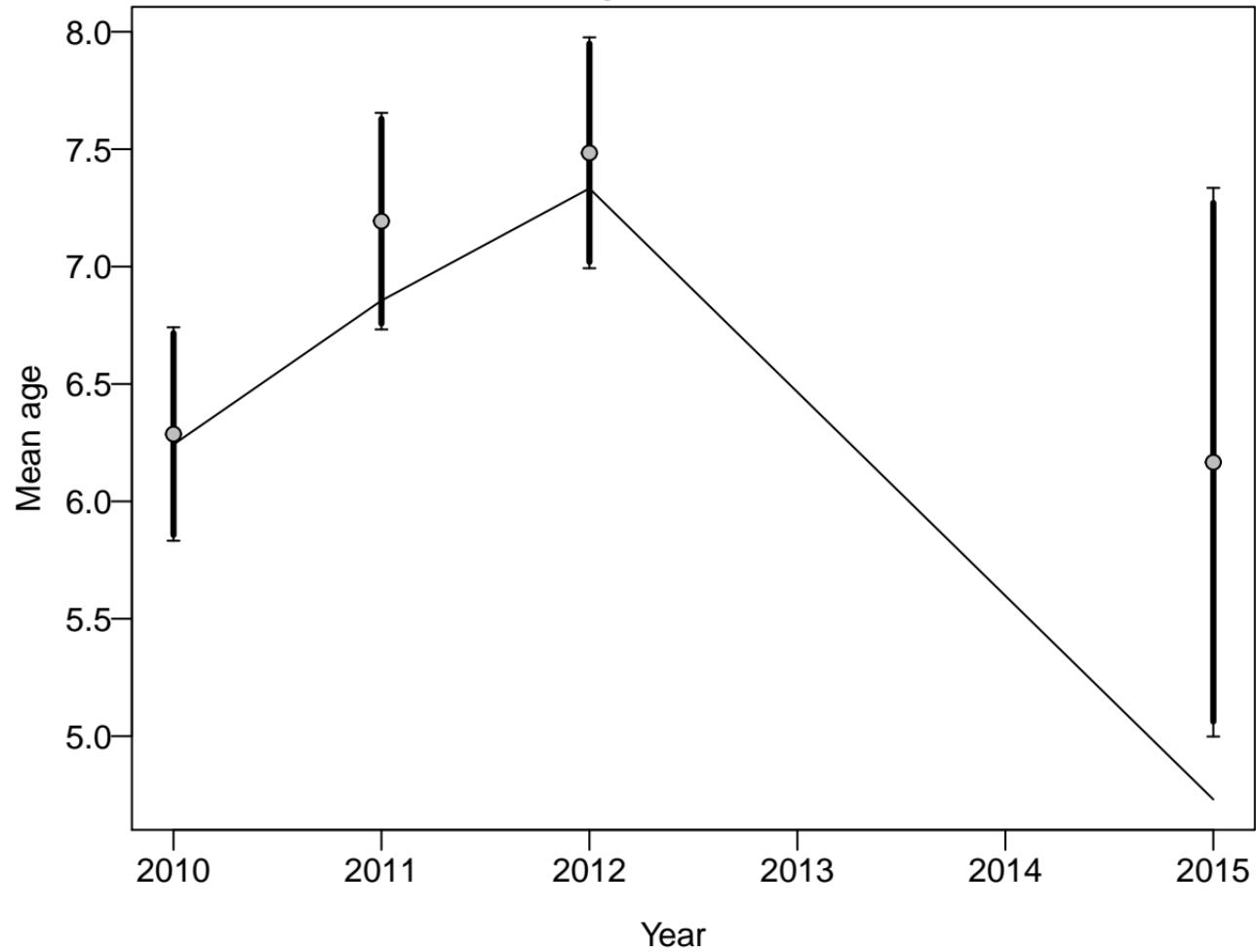
Length (cm)

Conditional AAL plot, whole catch, LL1

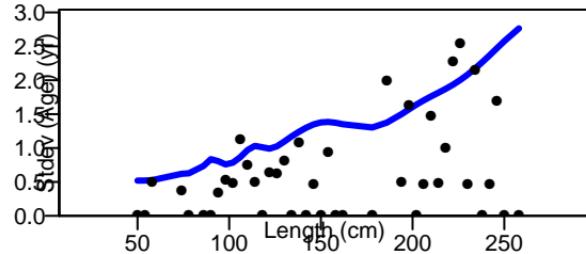
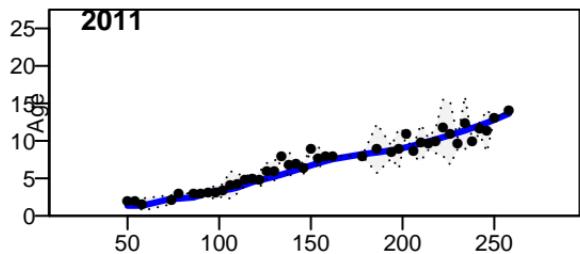
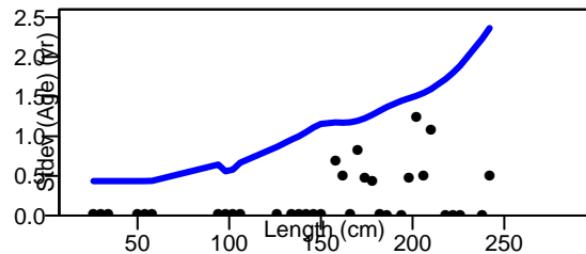
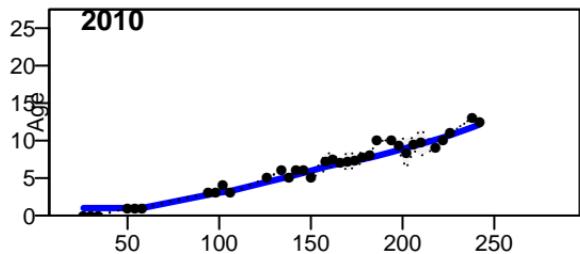
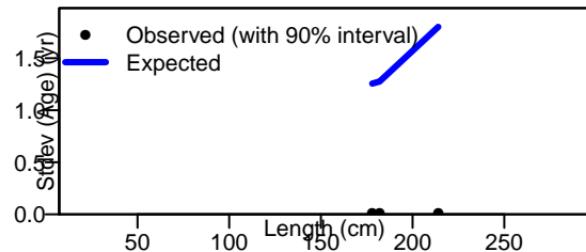
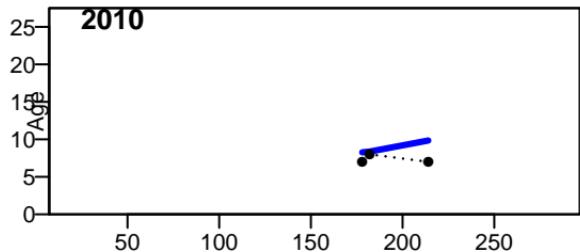


Length (cm)

LL3

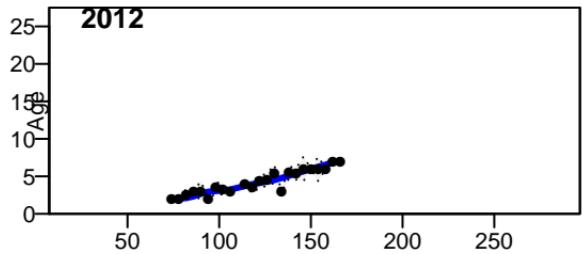
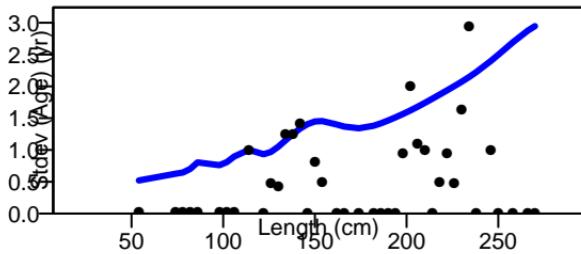
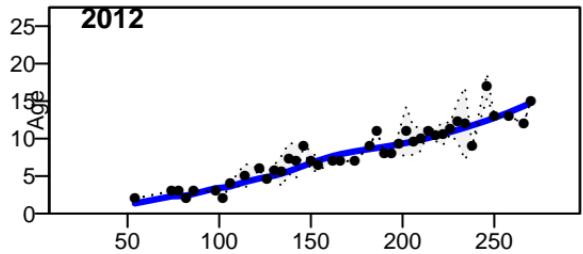
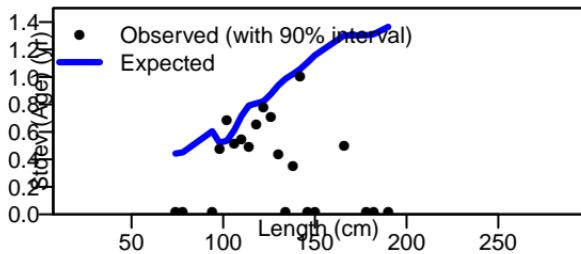
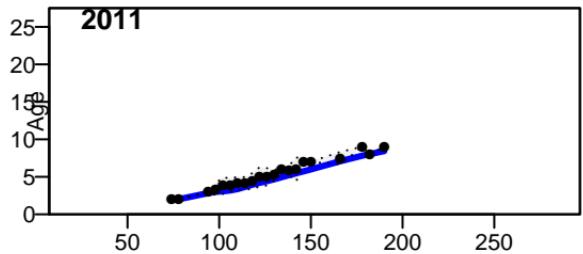


Conditional AAL plot, whole catch, LL3

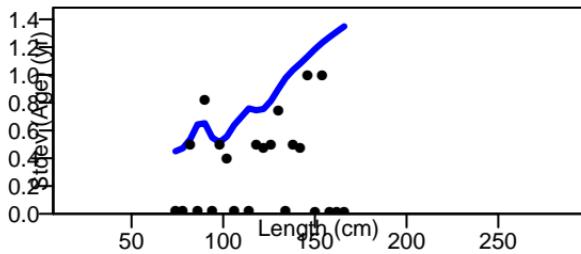


Length (cm)

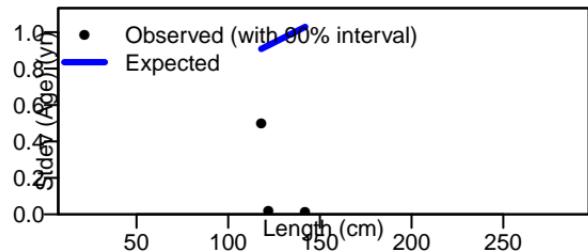
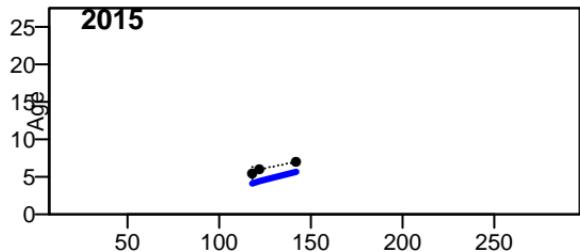
Conditional AAL plot, whole catch, LL3



Length (cm)

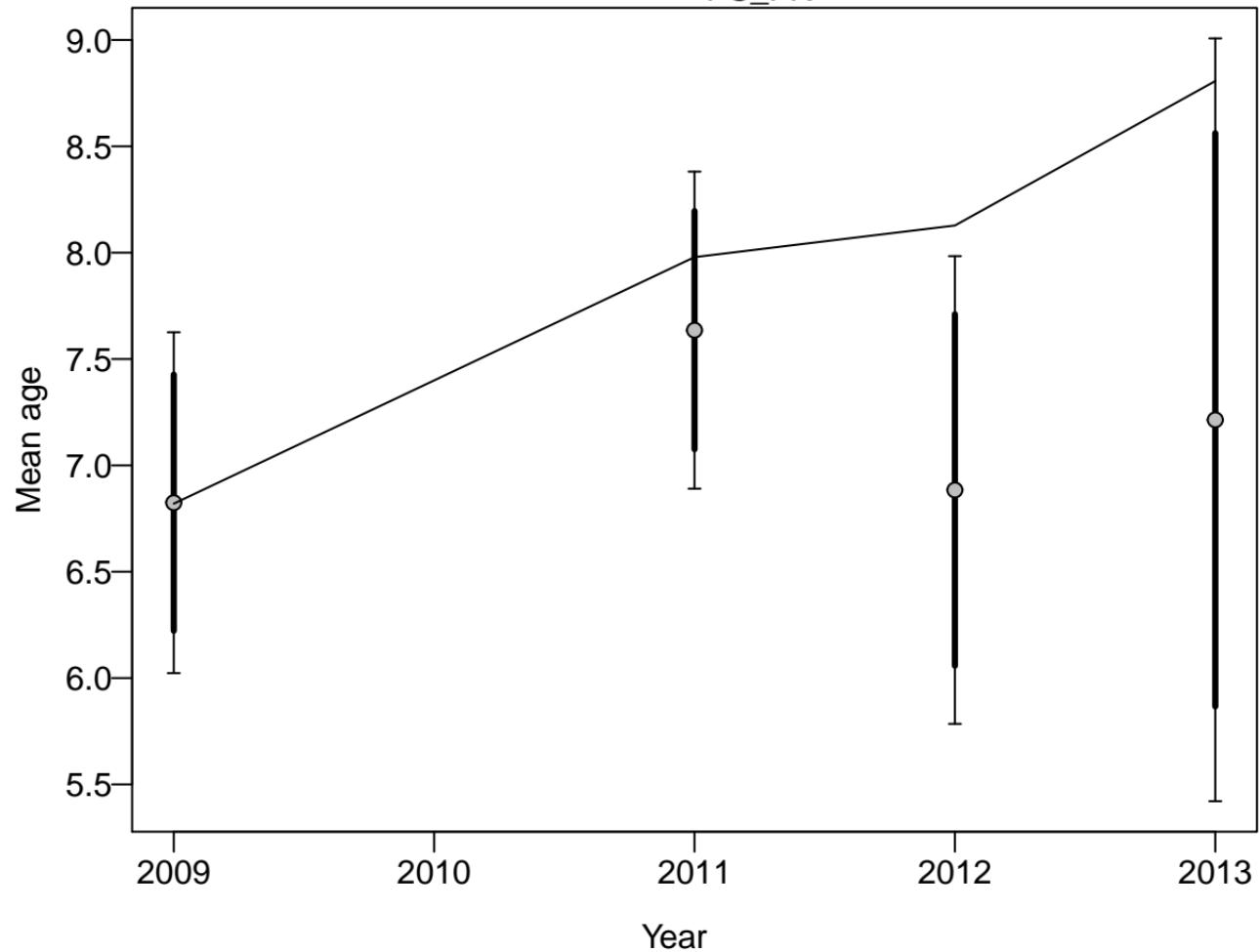


Conditional AAL plot, whole catch, LL3

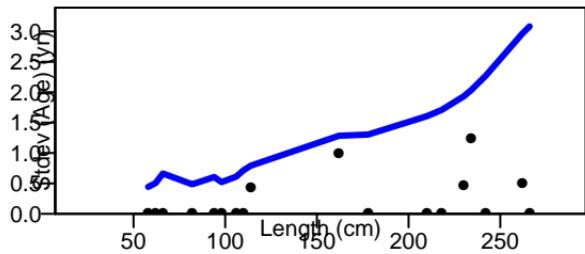
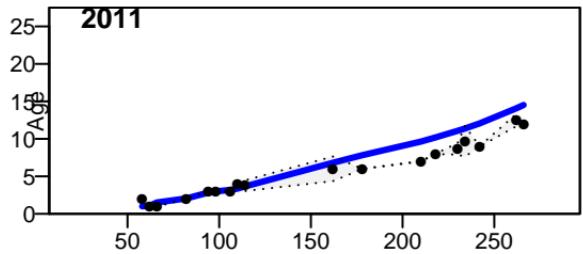
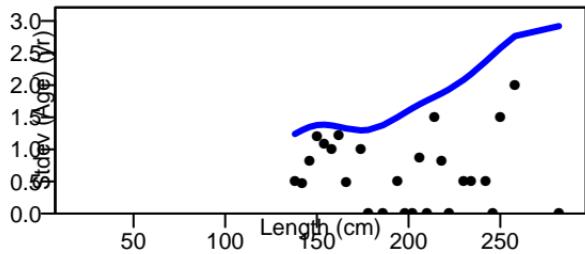
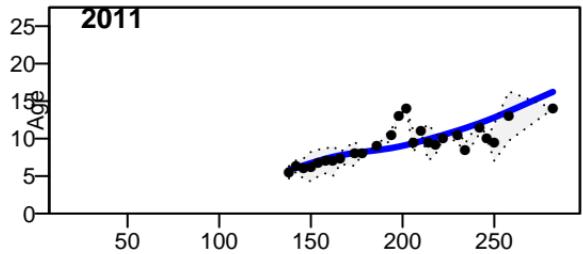
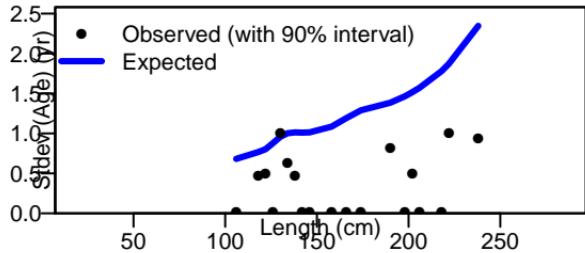
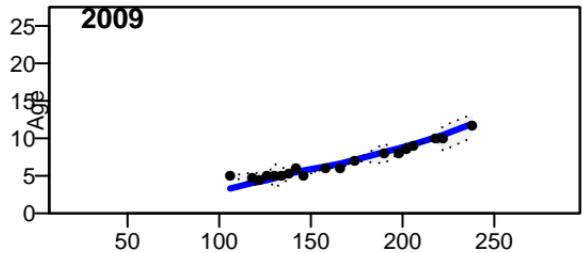


Length (cm)

PS_FR

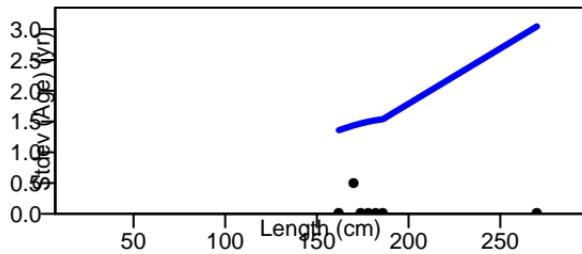
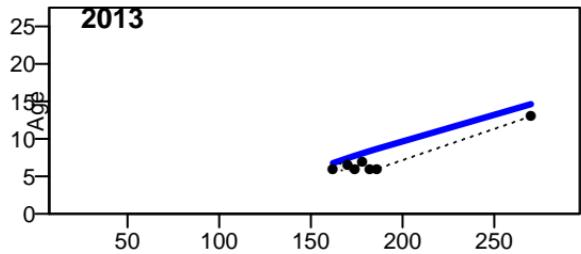
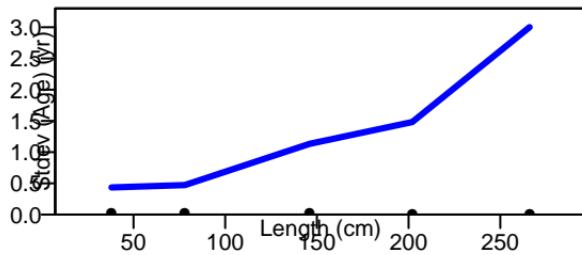
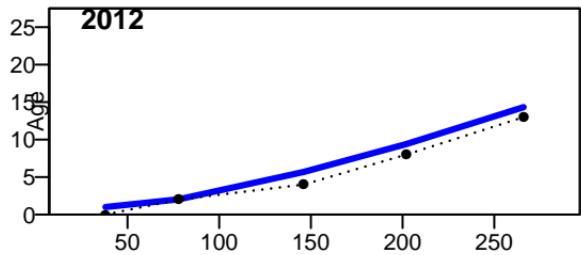
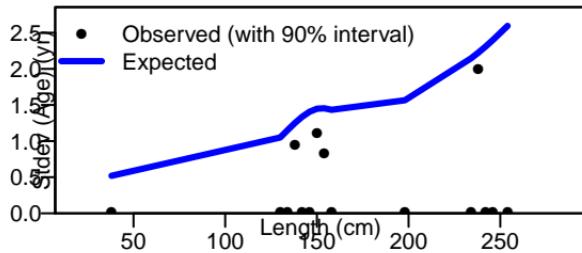
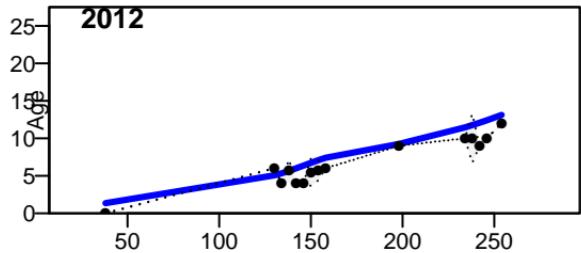


Conditional AAL plot, whole catch, PS_FR



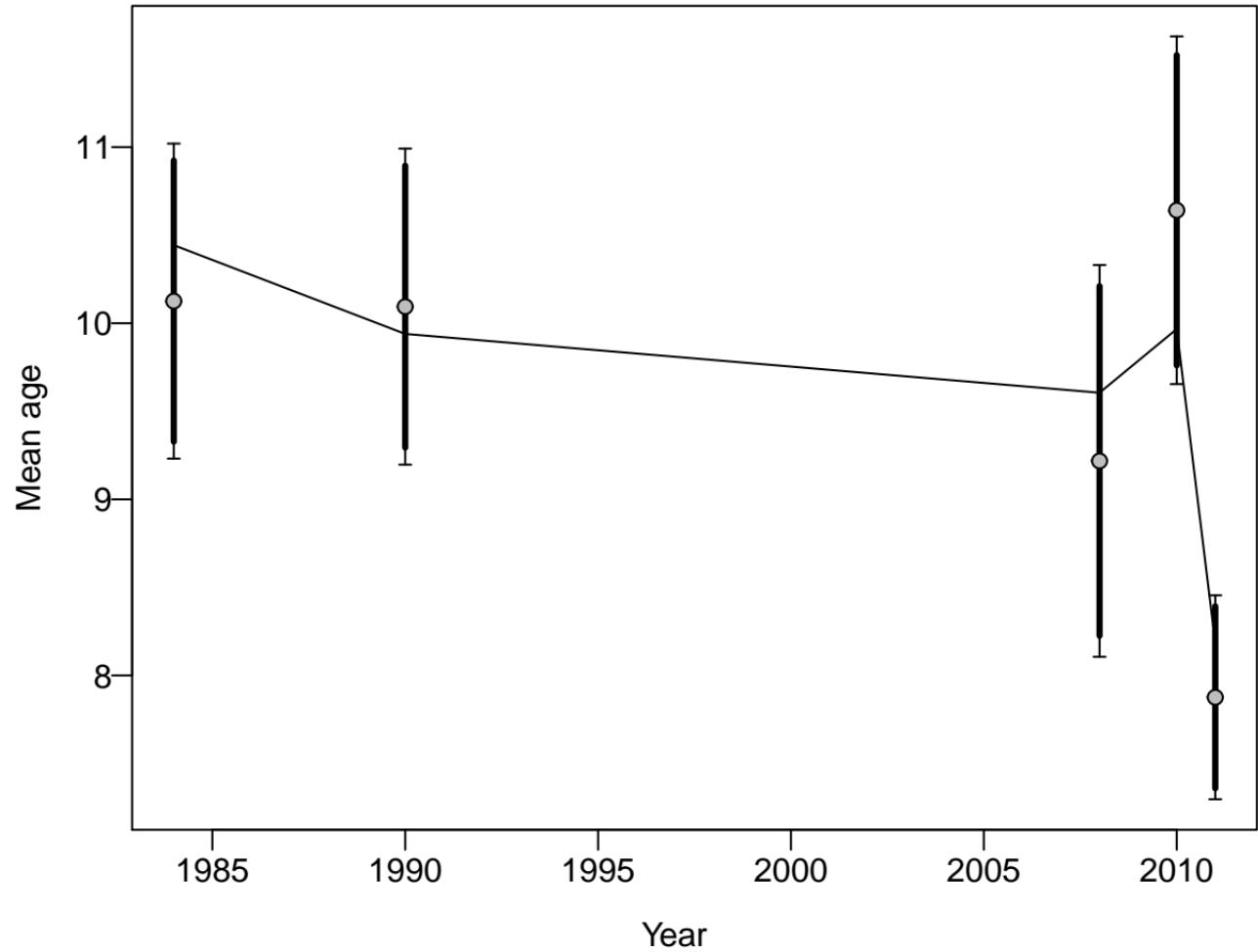
Length (cm)

Conditional AAL plot, whole catch, PS_FR

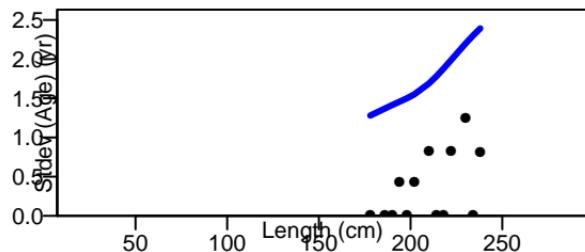
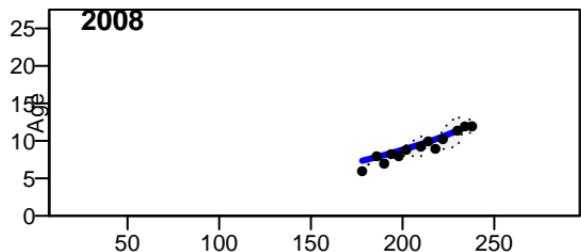
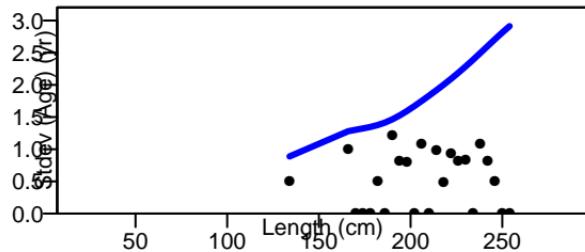
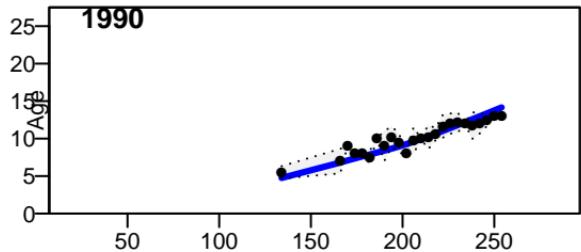
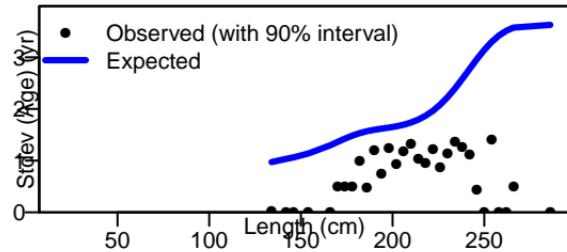
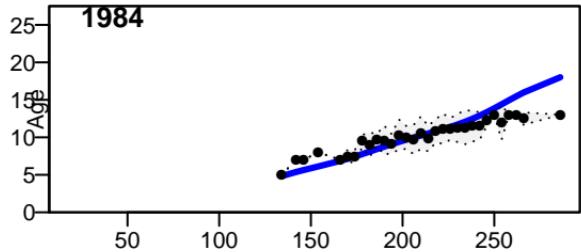


Length (cm)

TRP1

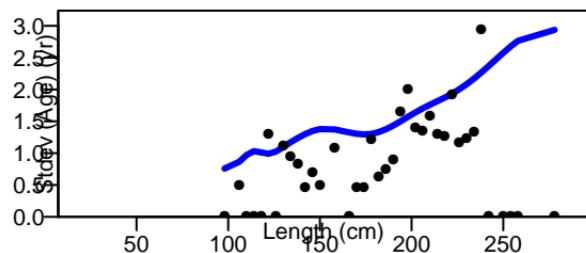
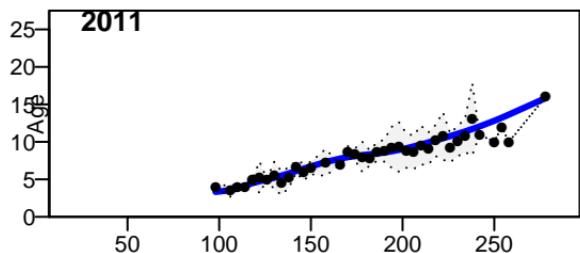
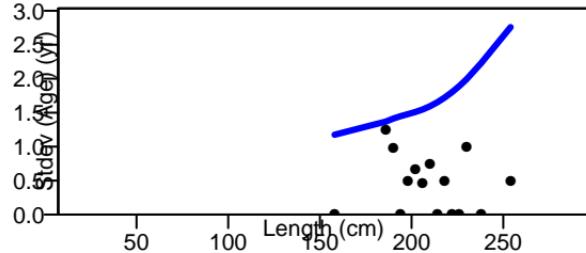
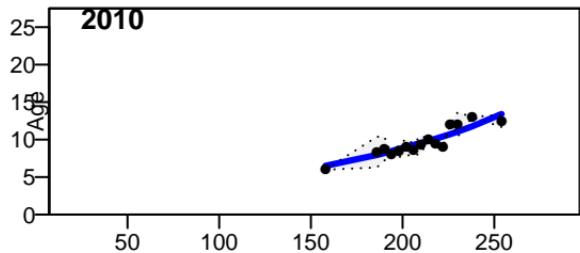
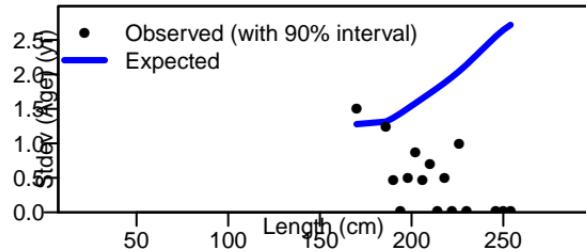
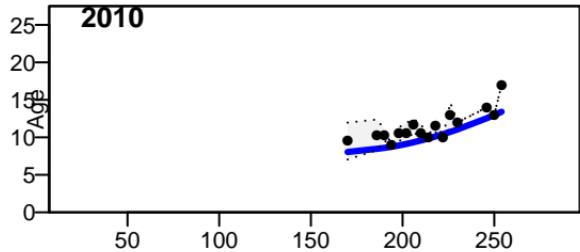


Conditional AAL plot, whole catch, TRP1



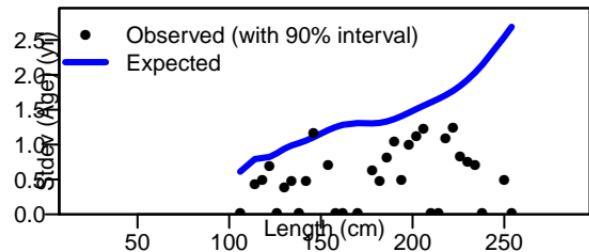
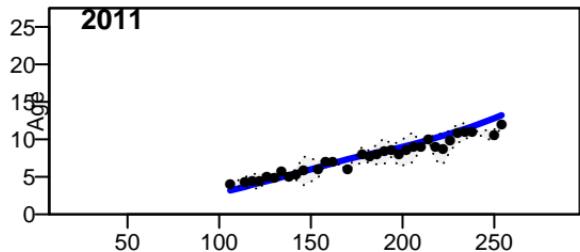
Length (cm)

Conditional AAL plot, whole catch, TRP1



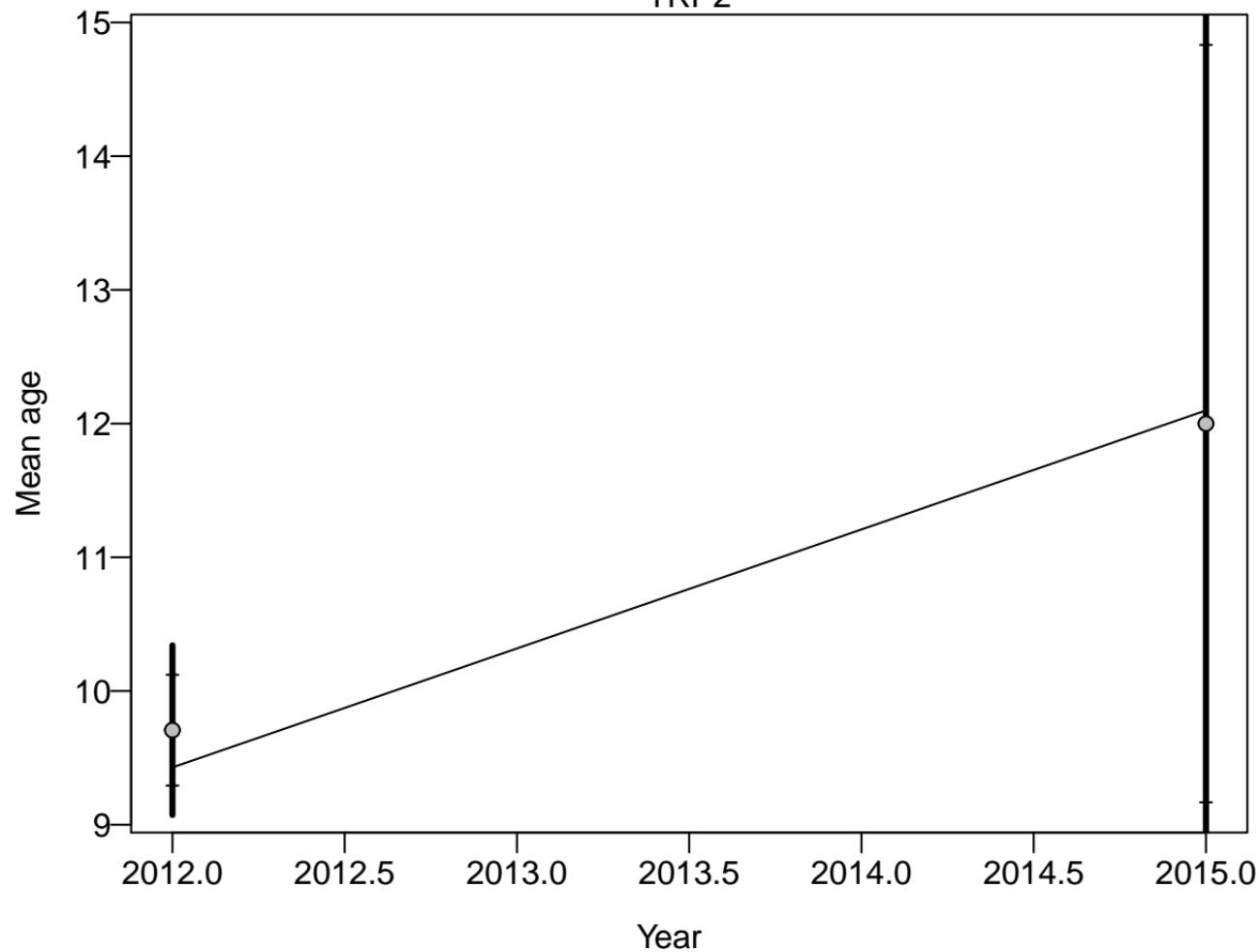
Length (cm)

Conditional AAL plot, whole catch, TRP1

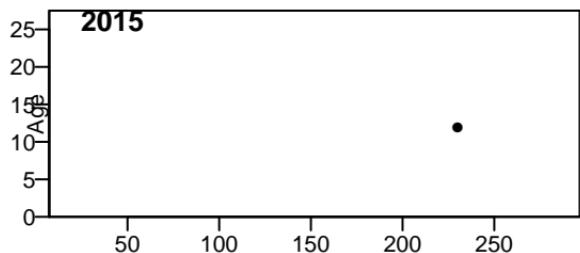
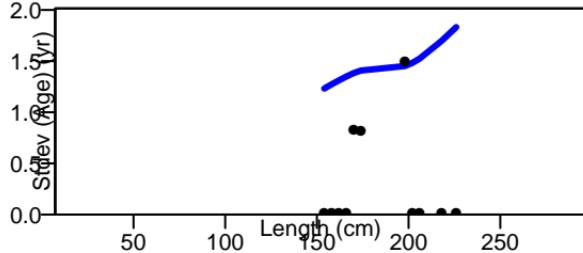
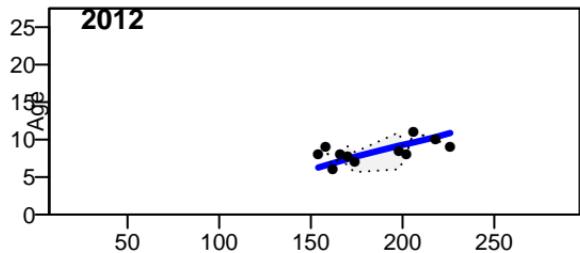
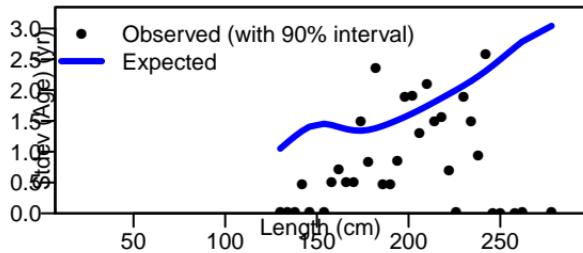
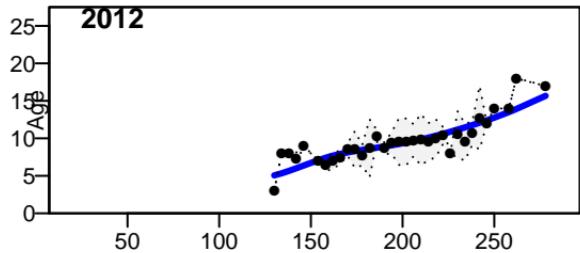


Length (cm)

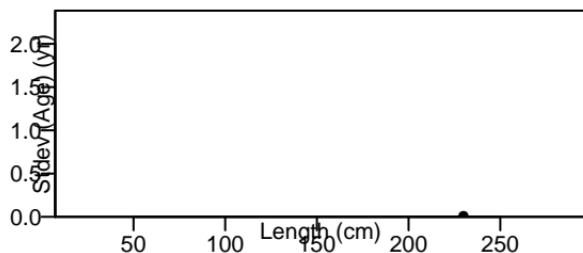
TRP2



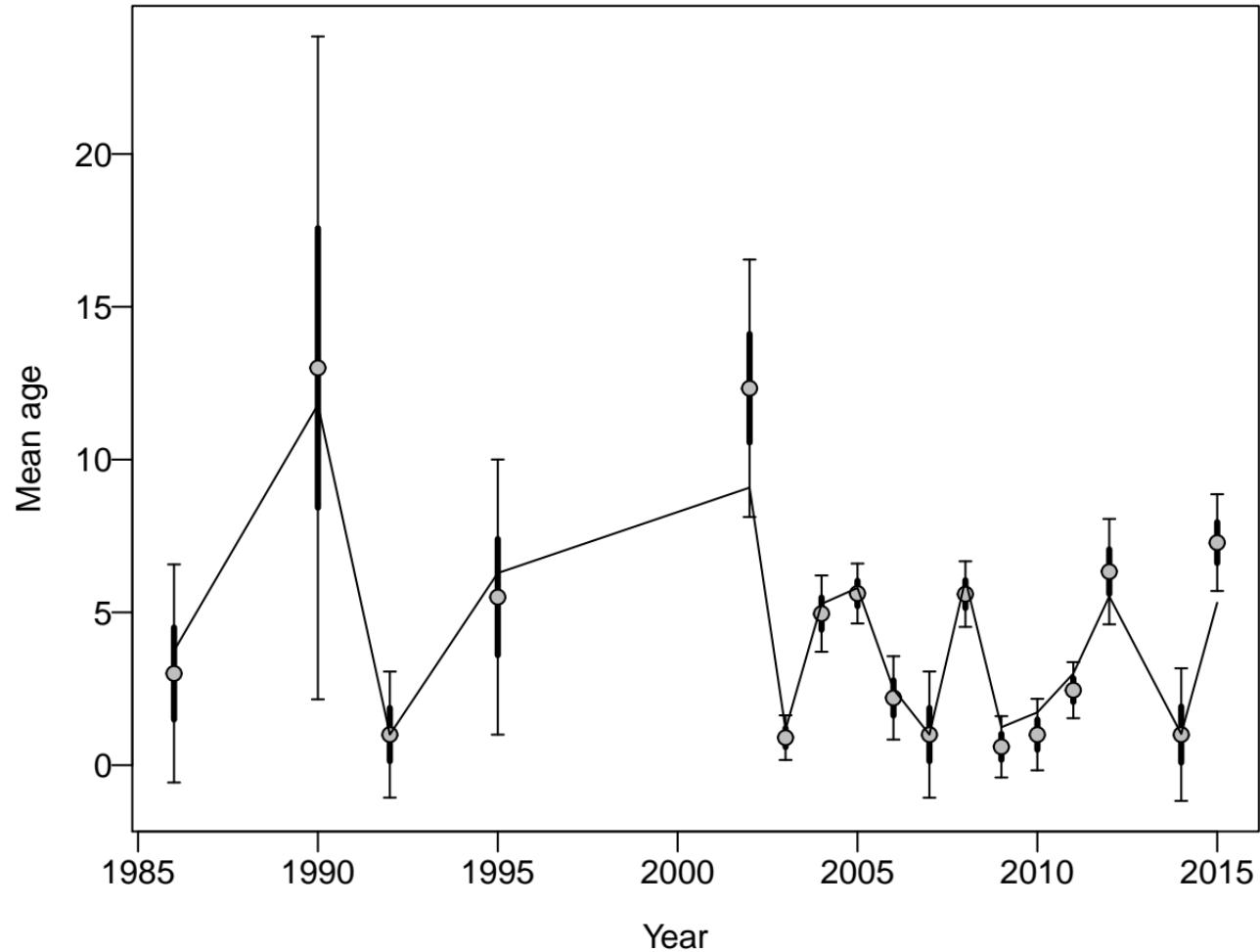
Conditional AAL plot, whole catch, TRP2



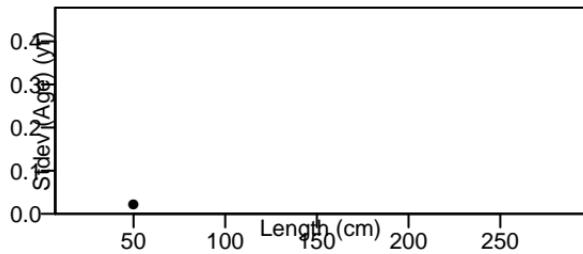
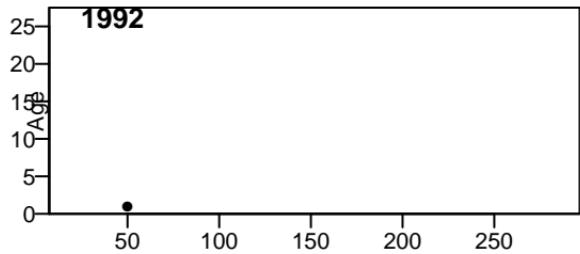
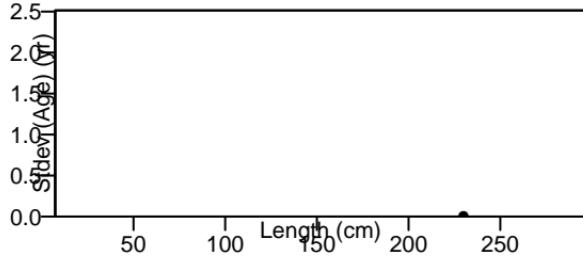
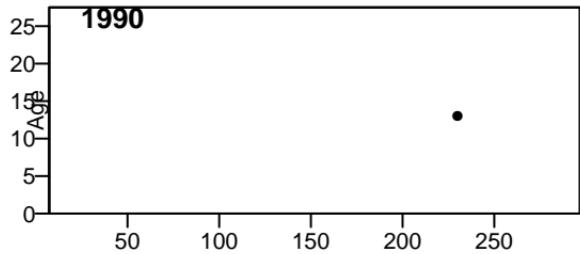
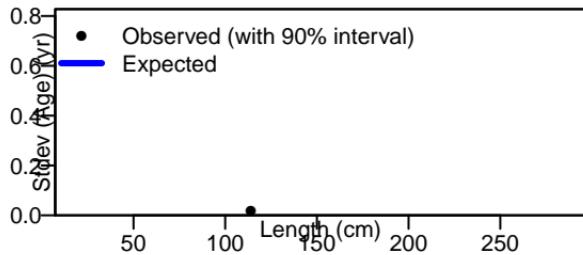
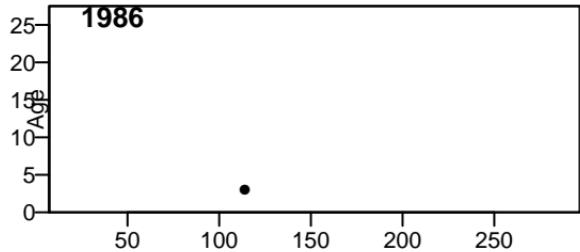
Length (cm)



OTR

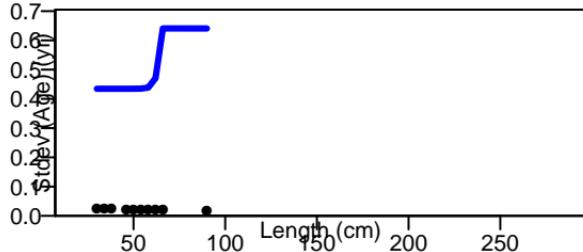
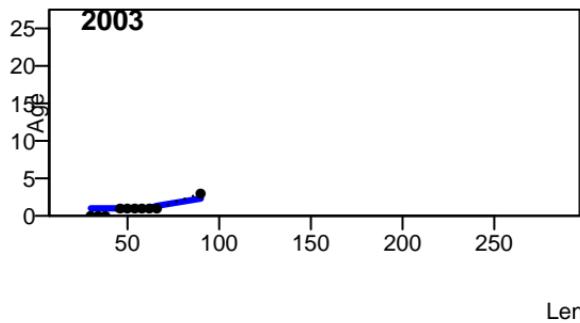
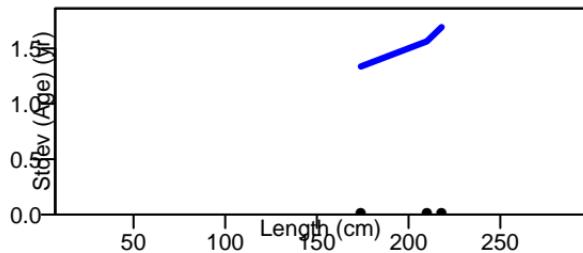
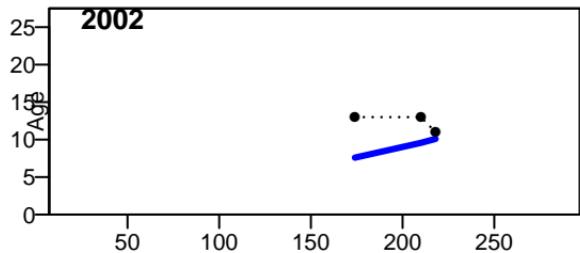
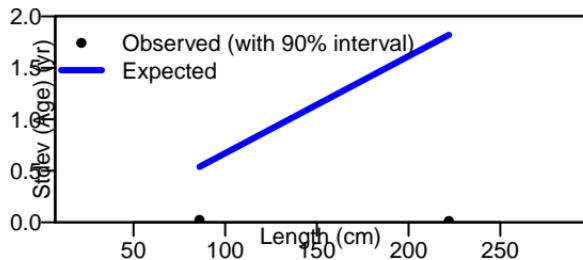
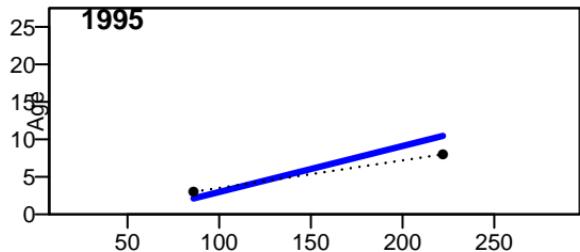


Conditional AAL plot, whole catch, OTR

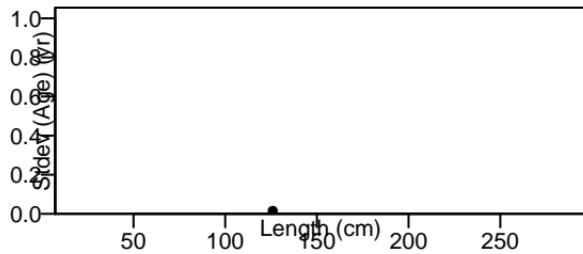
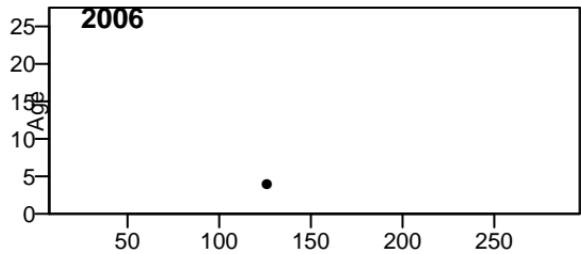
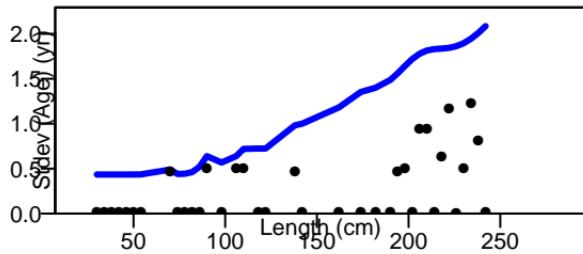
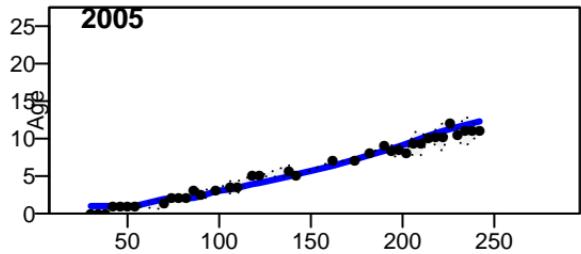
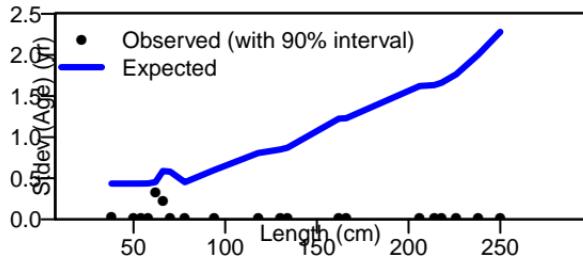
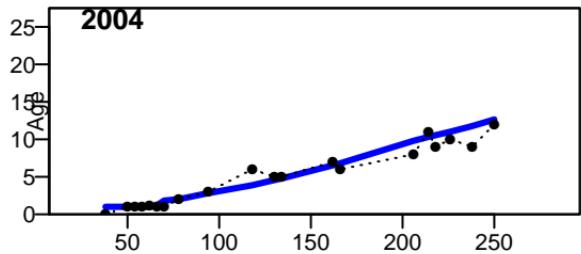


Length (cm)

Conditional AAL plot, whole catch, OTR

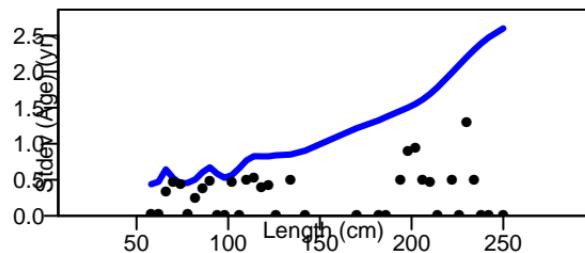
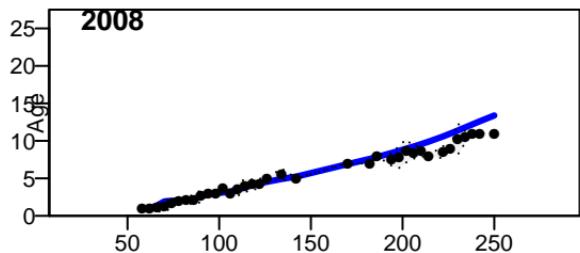
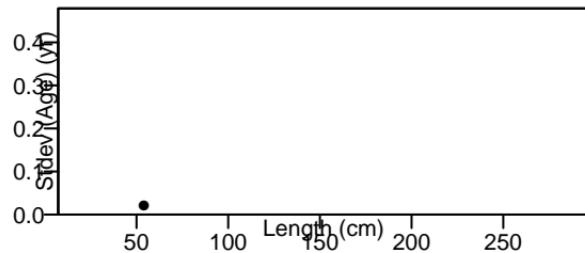
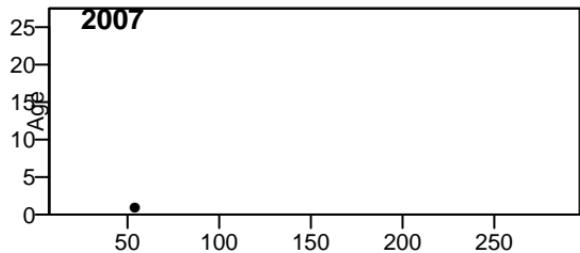
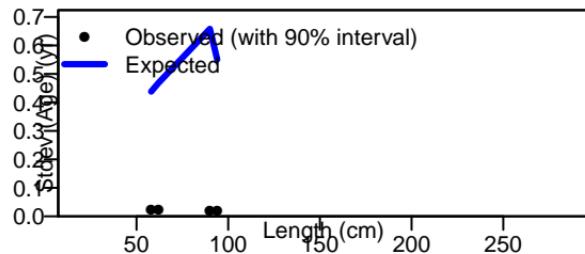
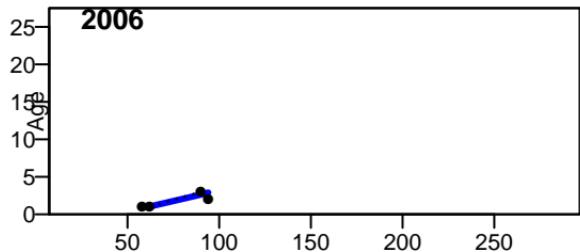


Conditional AAL plot, whole catch, OTR



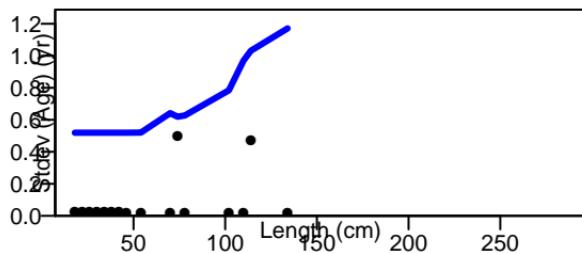
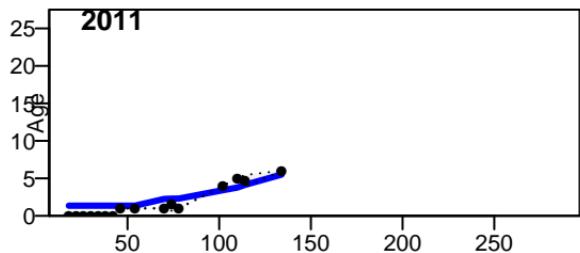
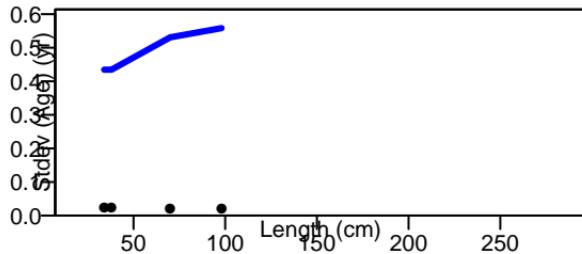
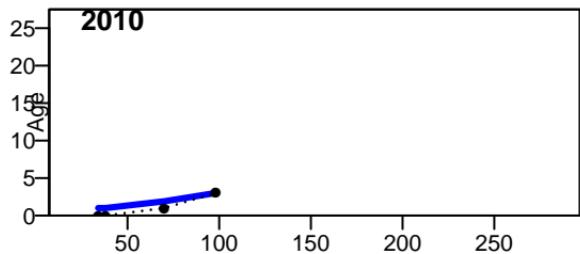
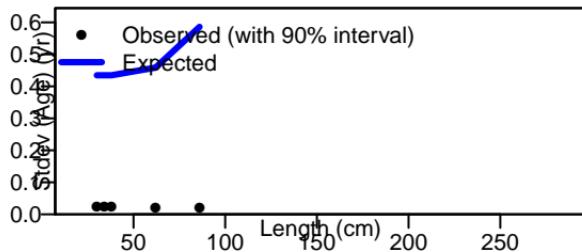
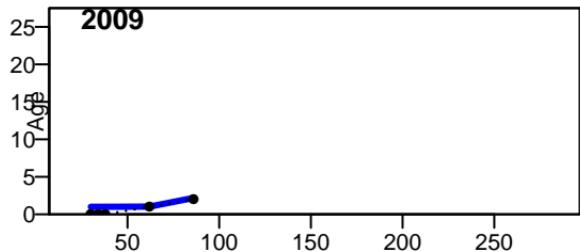
Length (cm)

Conditional AAL plot, whole catch, OTR



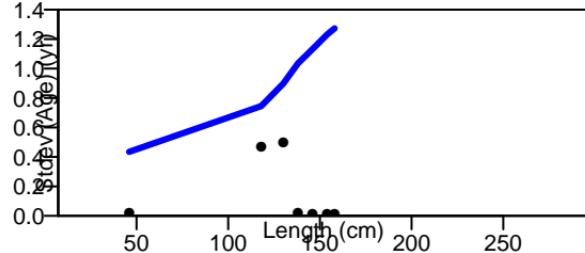
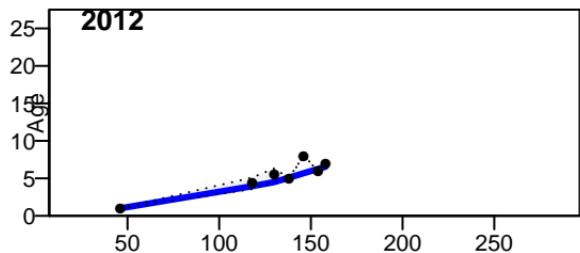
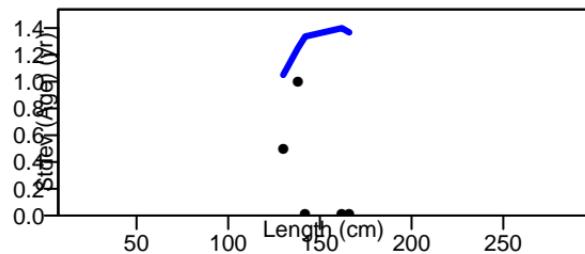
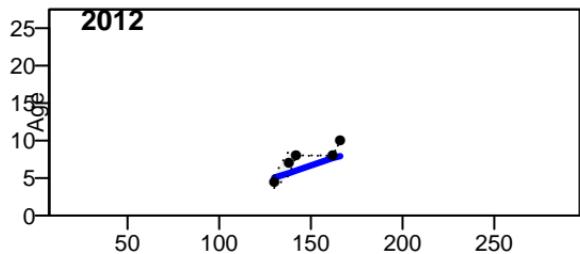
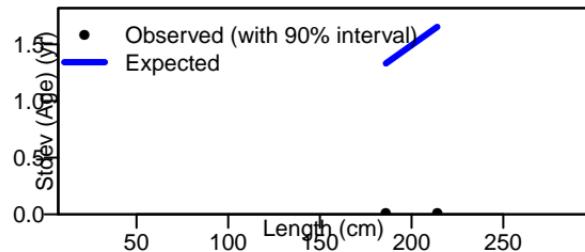
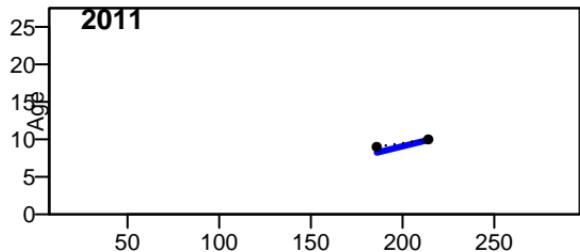
Length (cm)

Conditional AAL plot, whole catch, OTR



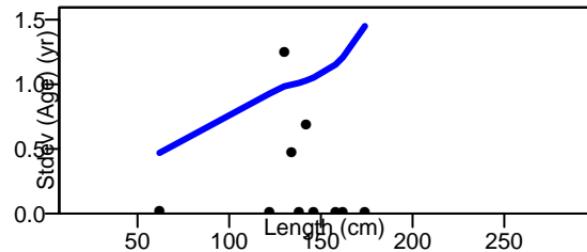
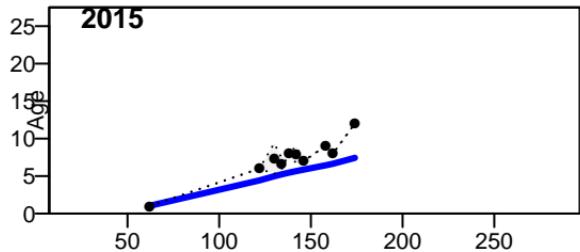
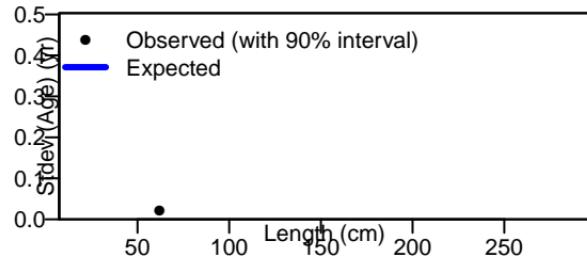
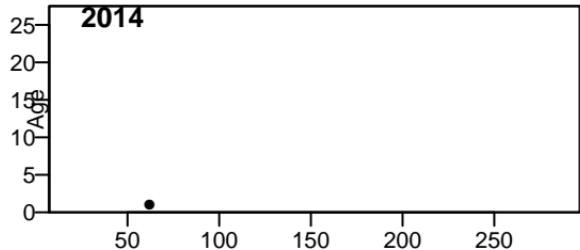
Length (cm)

Conditional AAL plot, whole catch, OTR

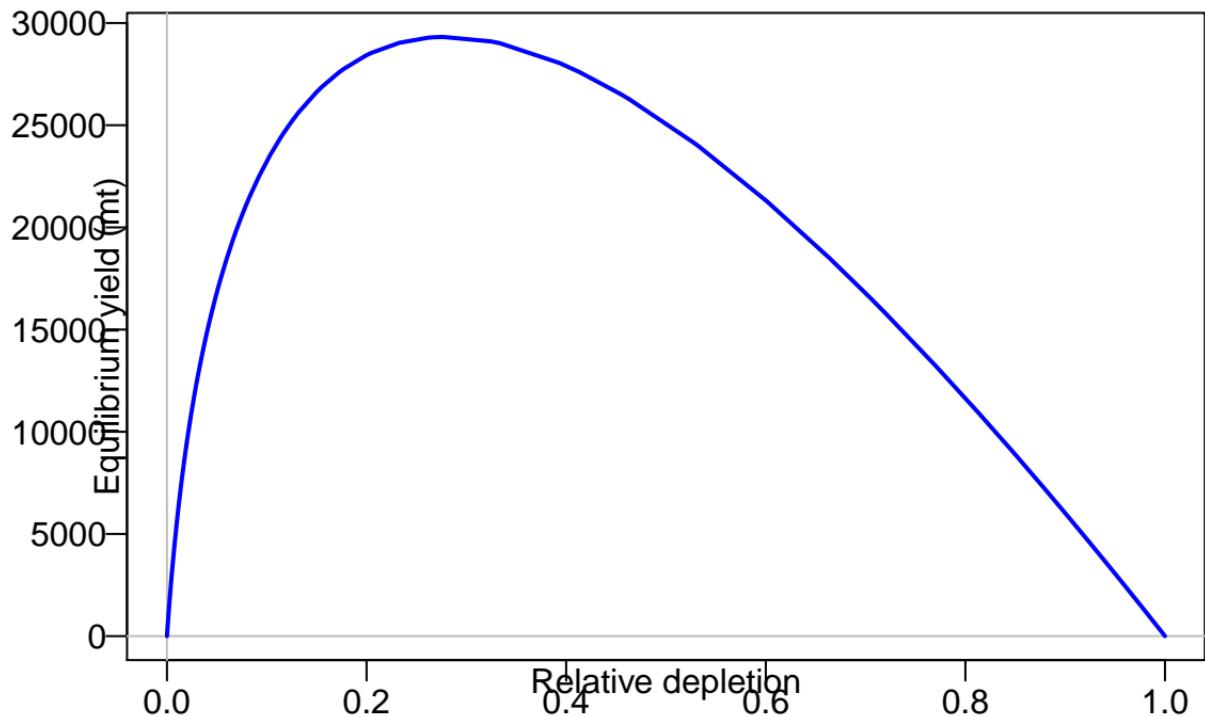


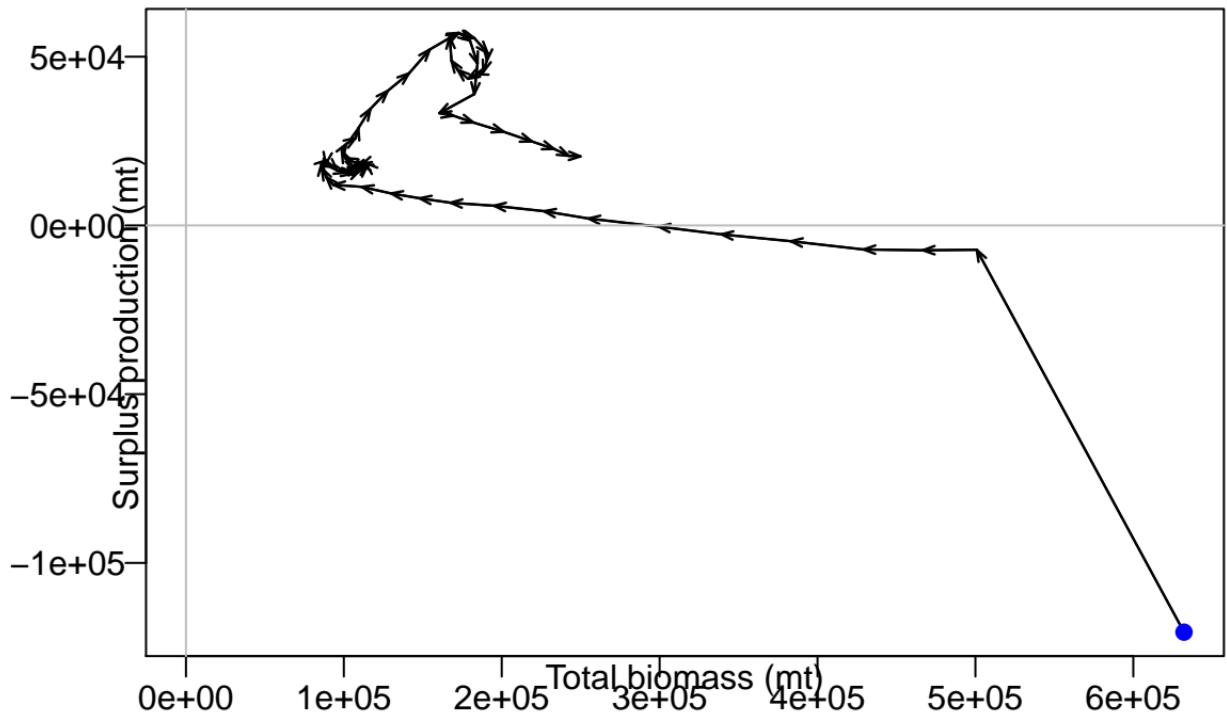
Length (cm)

Conditional AAL plot, whole catch, OTR

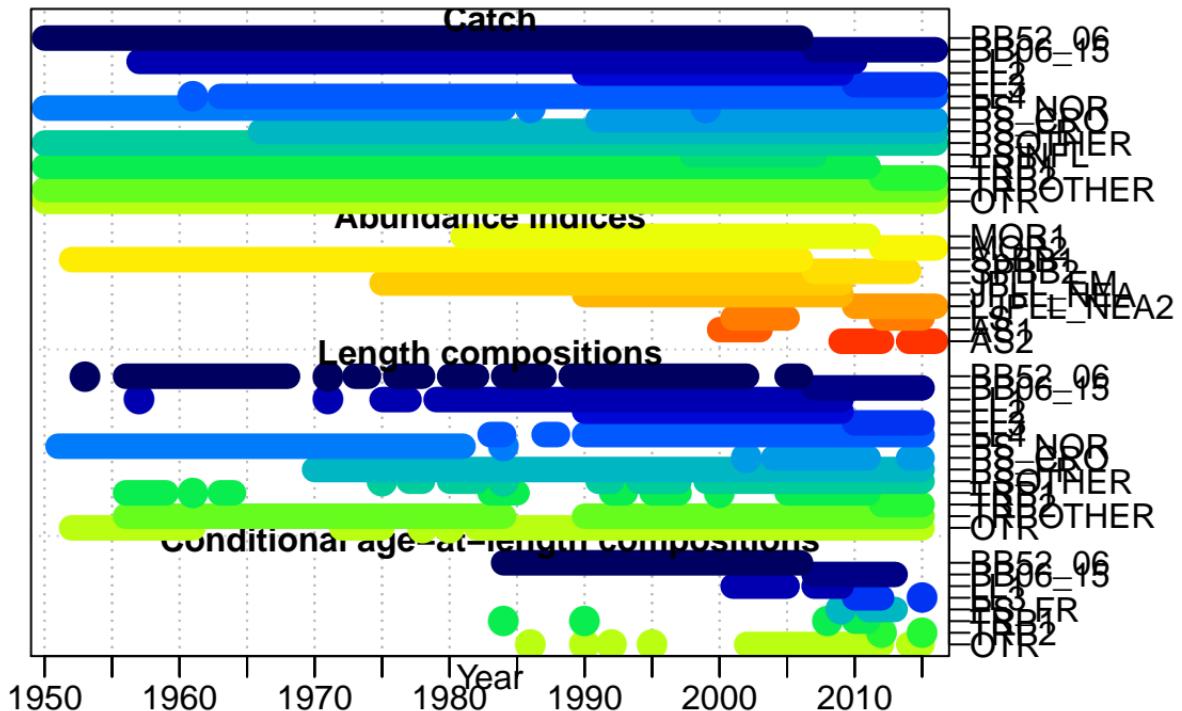


Length (cm)





Data by type and year



Data by type and year, circle area is relative to precision within data type

