How to insert r4ss Figure

Melissa Monk

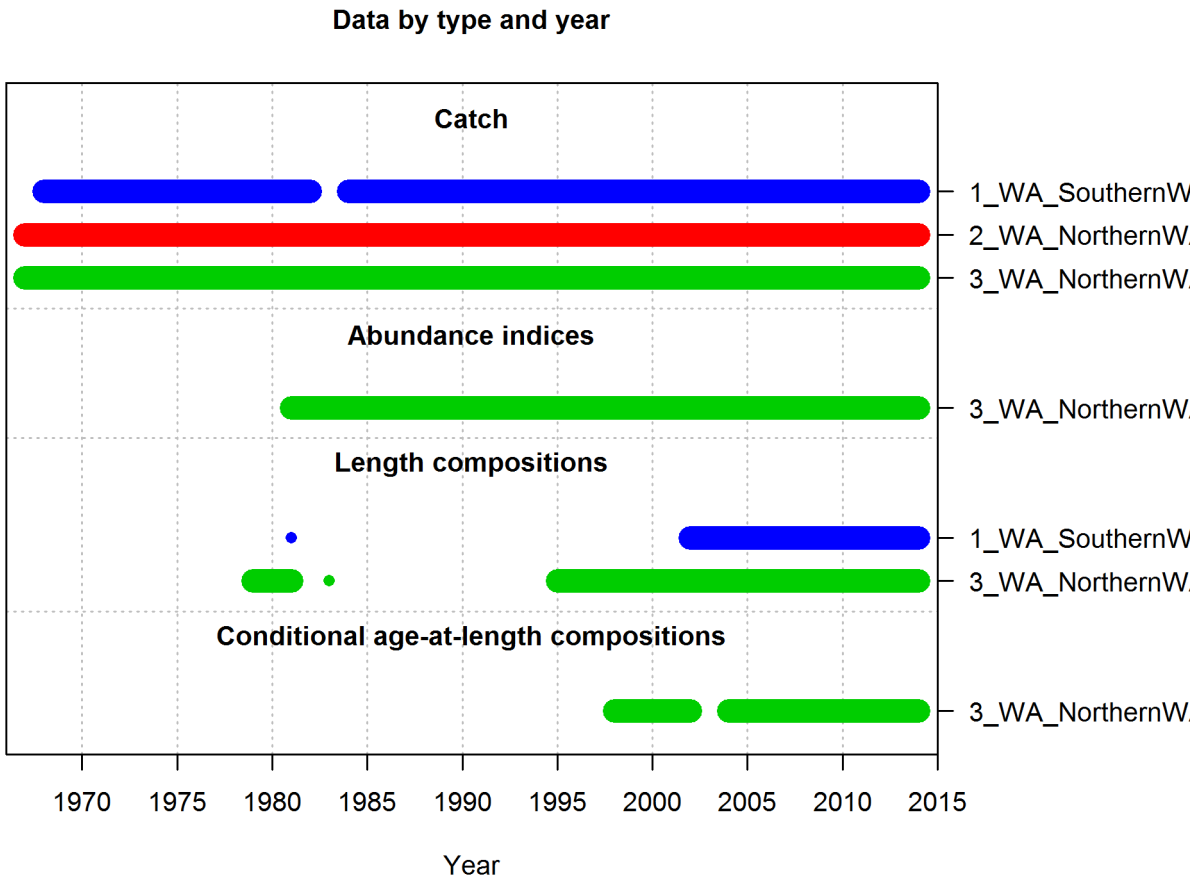


Figure 1: Summary of data sources used in the base case assessment. `fig:data_plot`

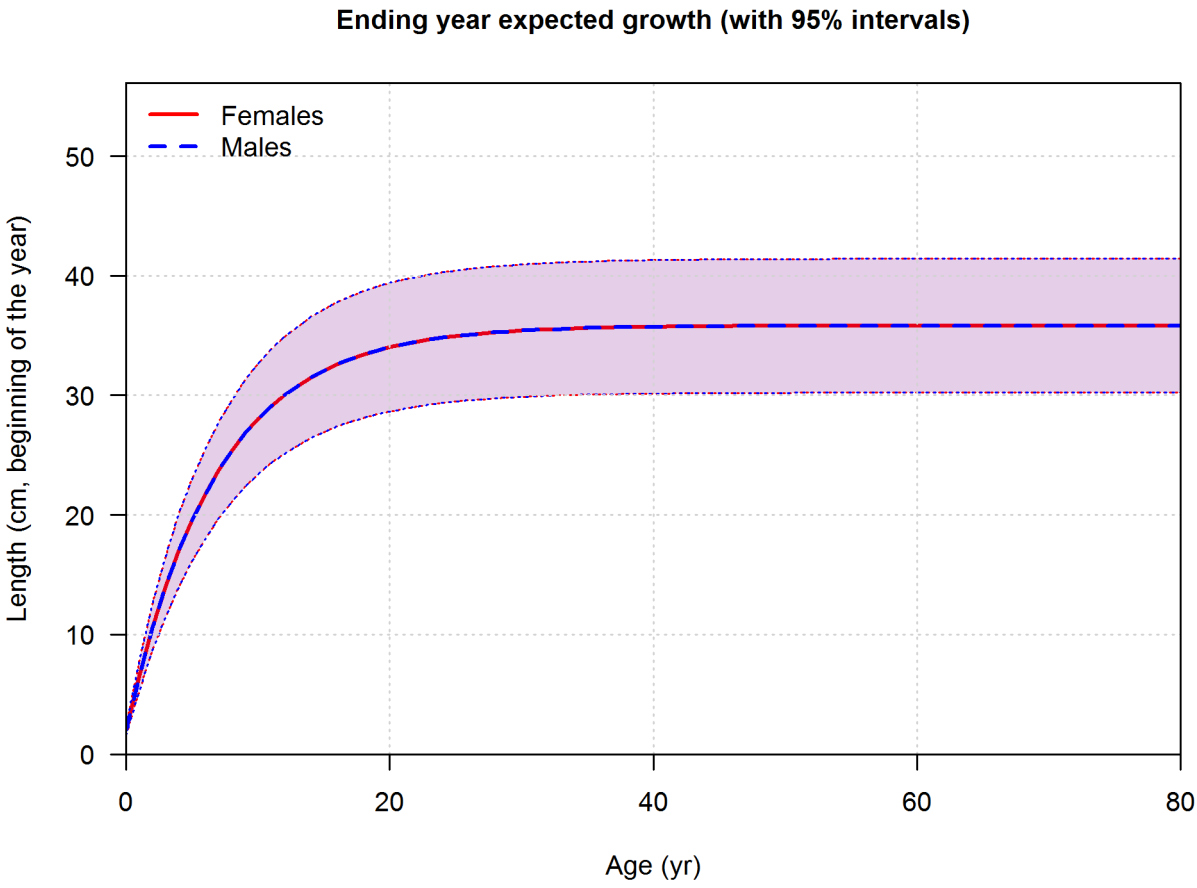


Figure 2: Length at age in the beginning of the year (or season) in the ending year of the model. Shaded area indicates 95% distribution of length at age around estimated growth curve. ⌜fig:mod1_1_bio1_sizeatage

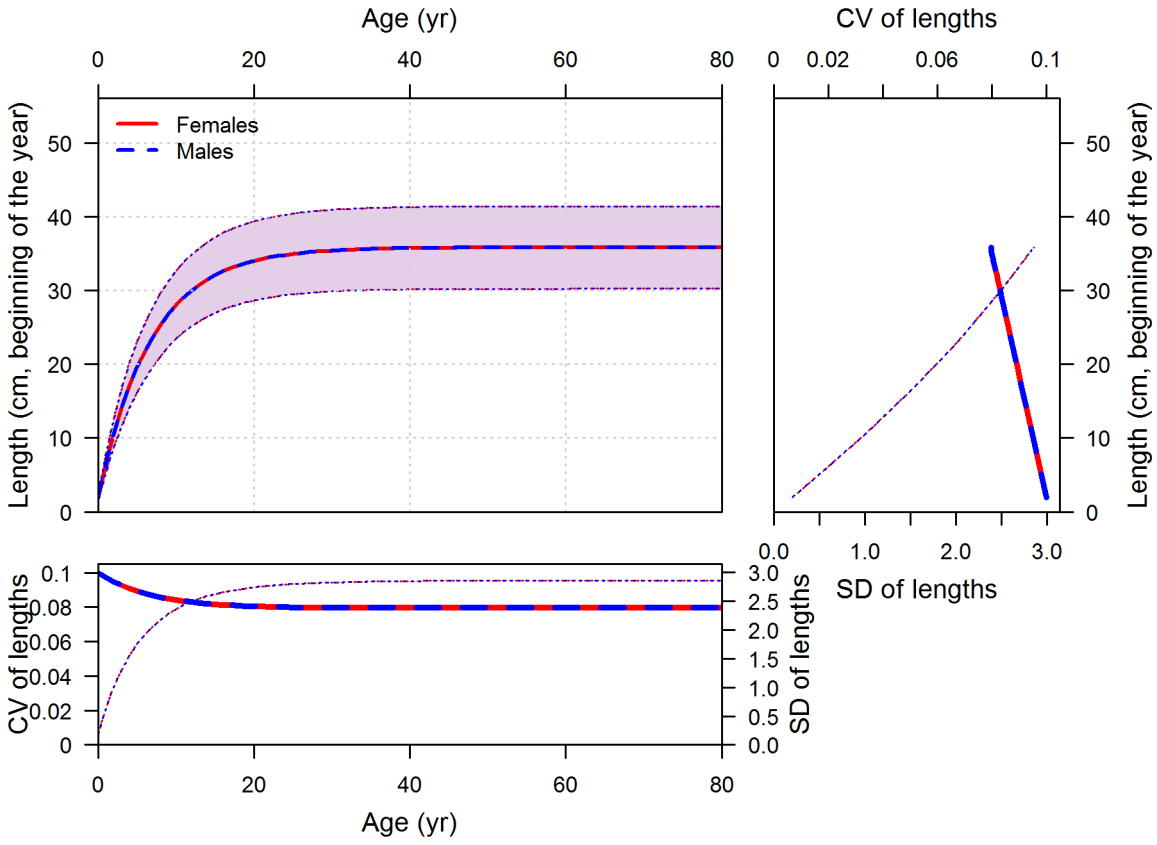


Figure 3: Length at age (top_left panel) with CV (thick line) and SD (thin line) of length at age shown in top_right and lower_left panels [fig:mod1_2_bio2_sizeatage_plus_CV_and_SD]

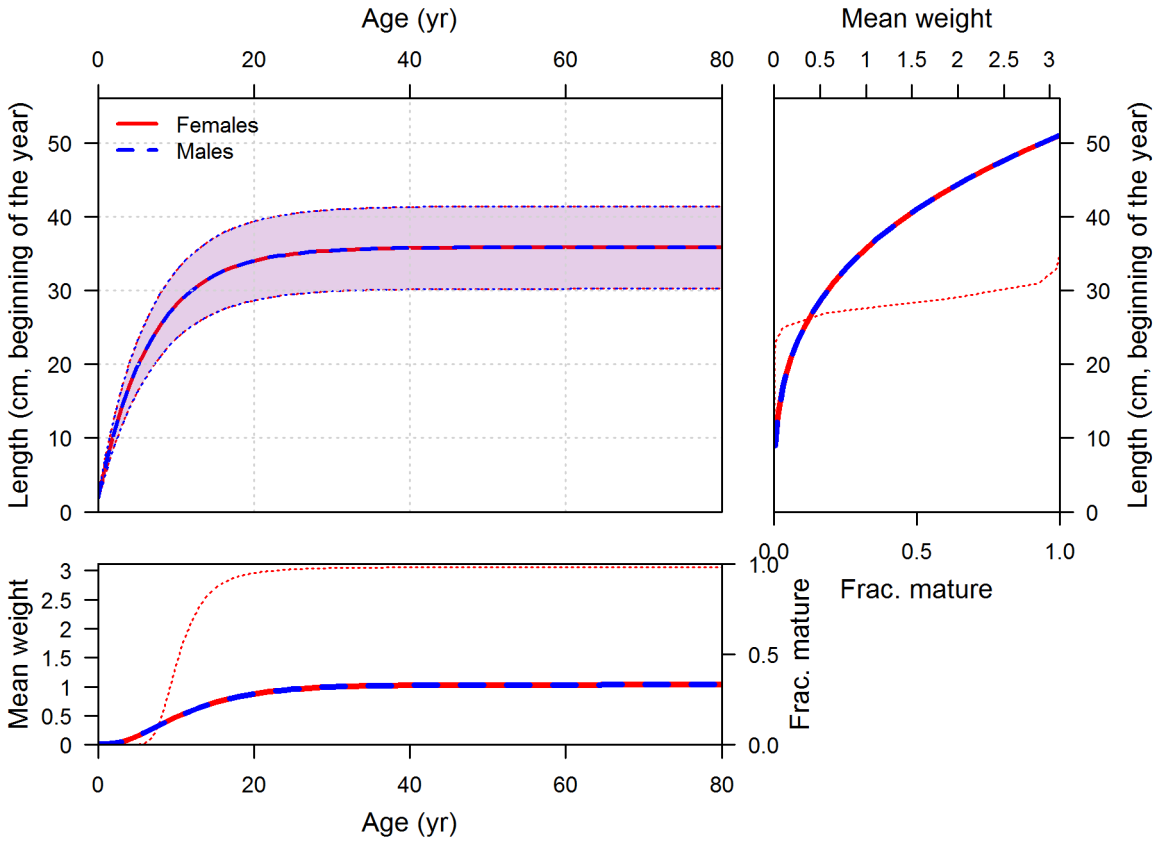


Figure 4: Length at age (top_left panel) with weight (thick line) and maturity (thin line) shown in top_right and lower_left panels [fig:mod1_3_bio3_sizeatage_plus_WT_and_MAT]

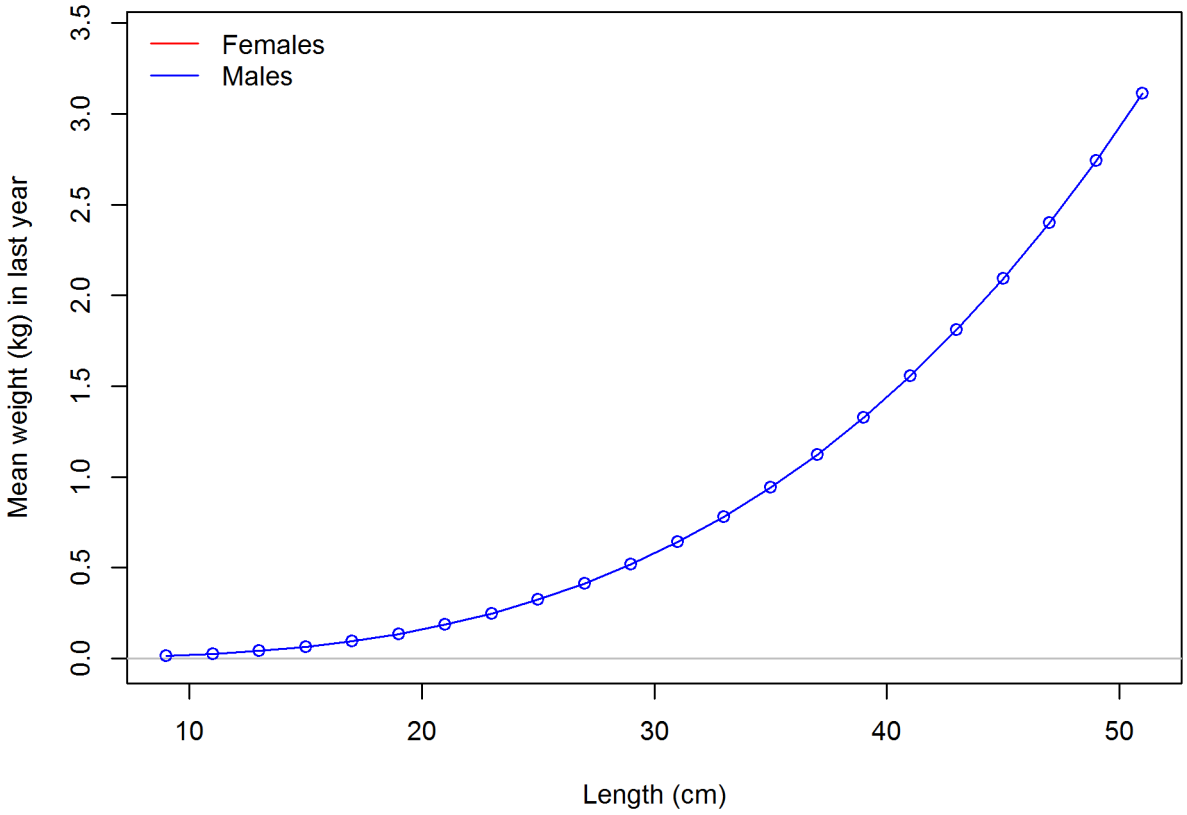


Figure 5: Weight_length relationship for females [fig:mod1_4_bio4_weightatsize]

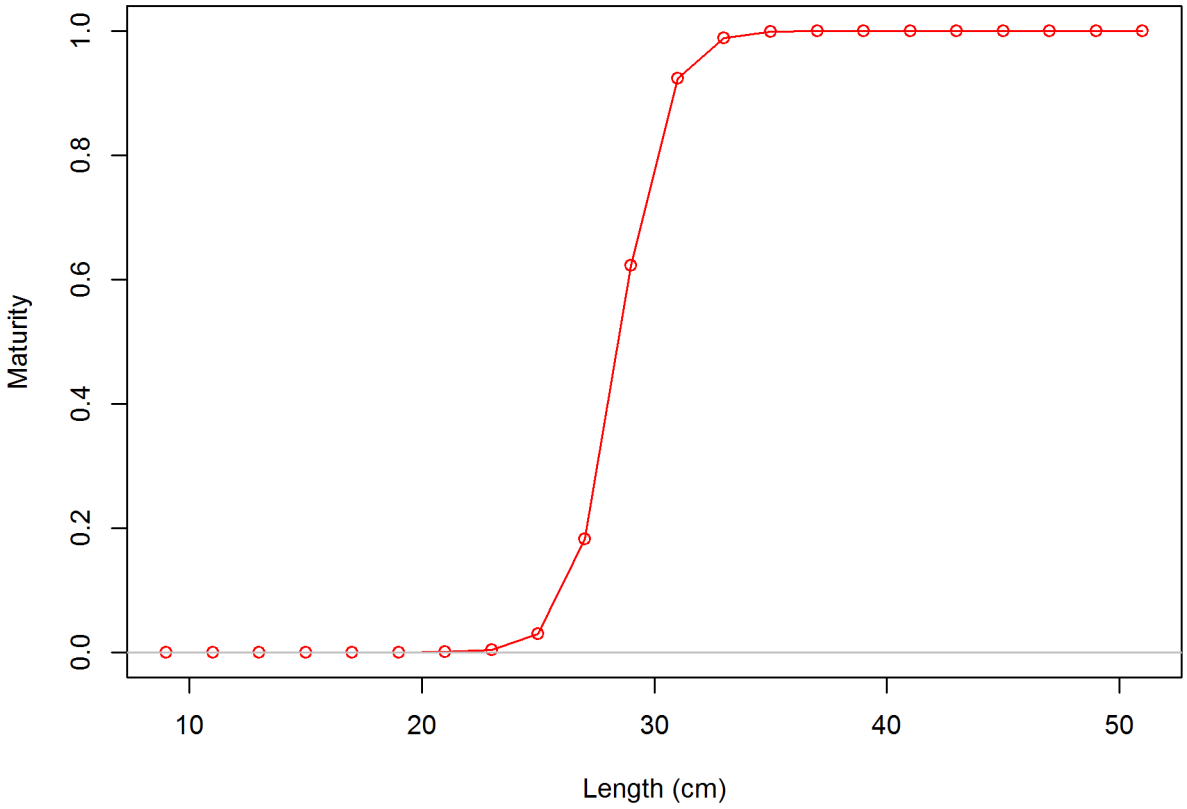


Figure 6: Maturity at length ⌈fig:mod1_5_bio5_maturity

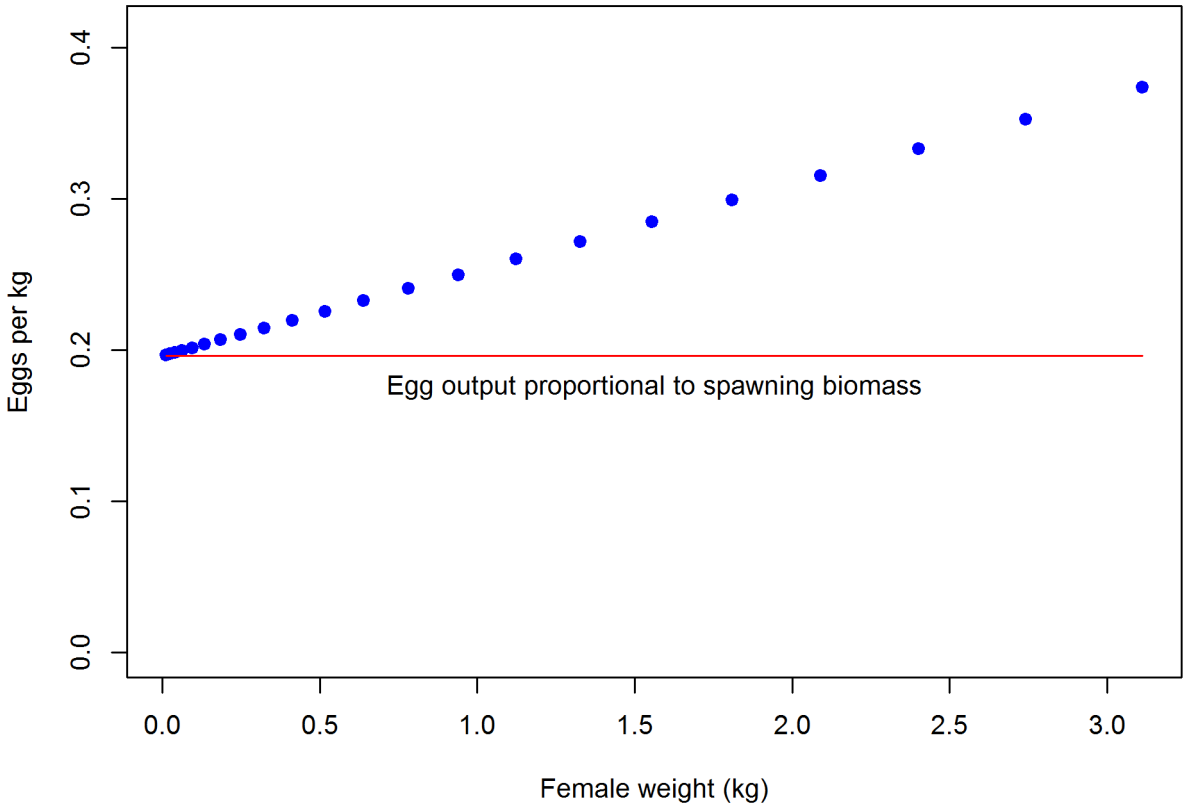


Figure 7: Fecundity [fig:mod1_6_bio6_fecundity]

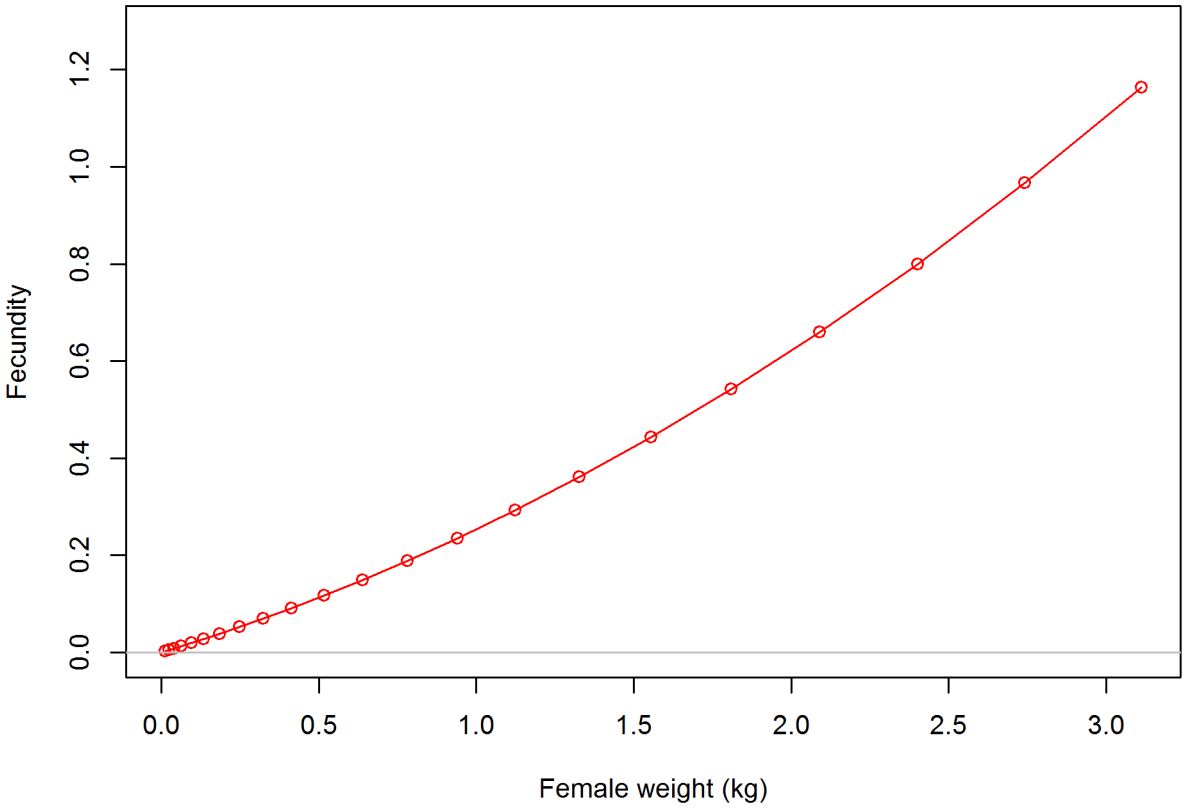


Figure 8: Fecundity as a function of weight ⌈fig:mod1_7_bio7_fecundity_wt

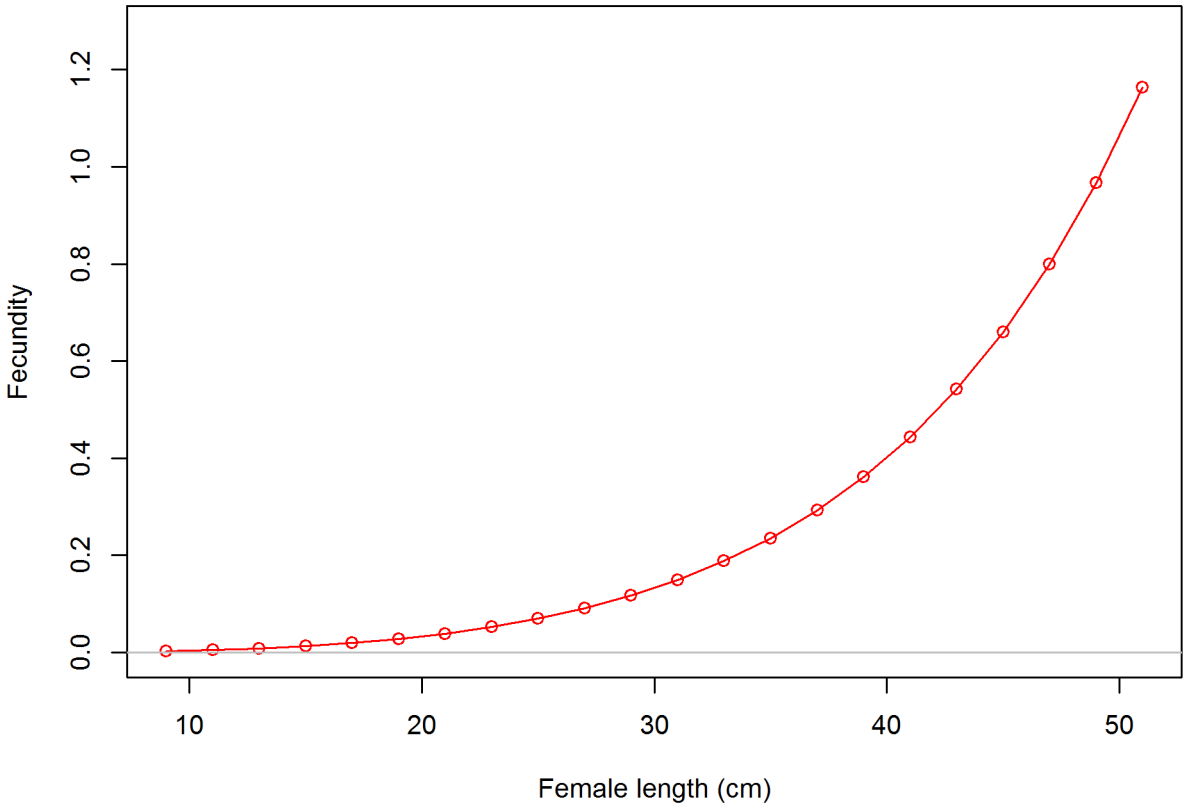


Figure 9: Fecundity as a function of length [fig:mod1_8_bio8_fecundity_len

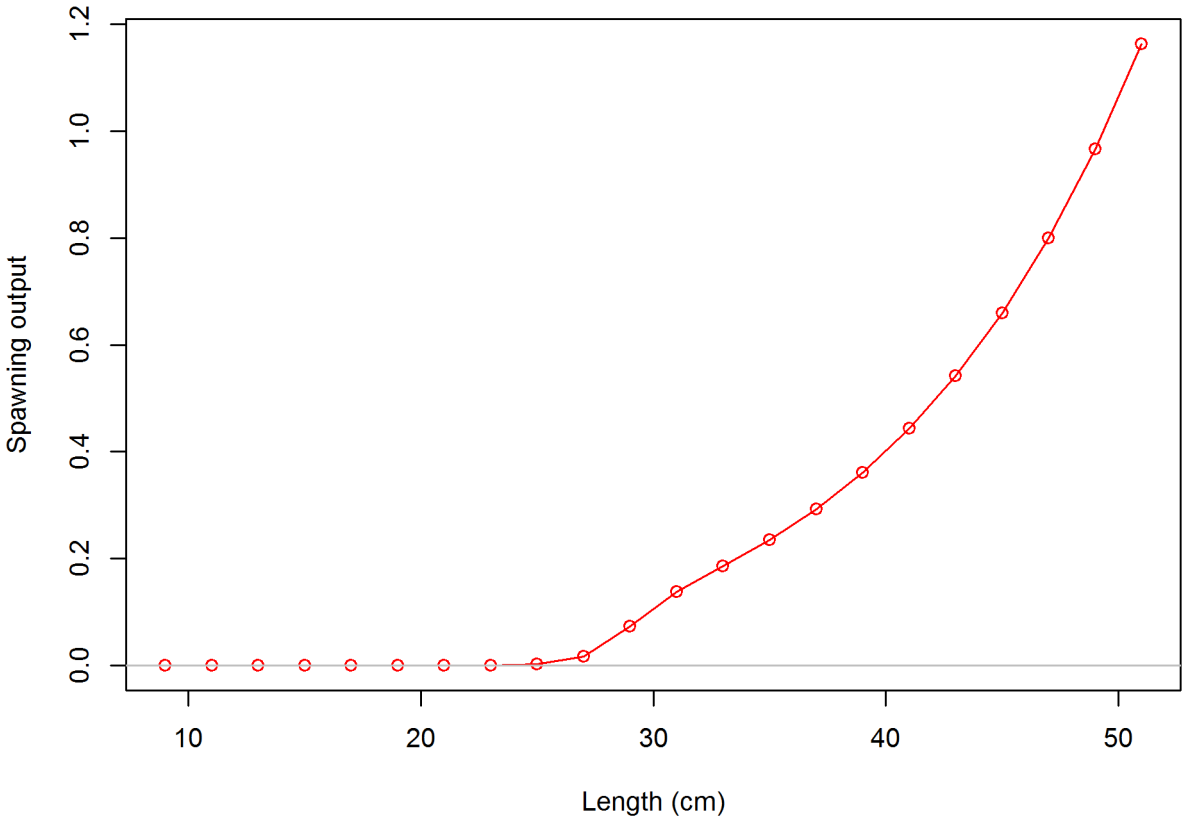


Figure 10: Spawning output at length [fig:mod1_9_bio9_spawningoutput

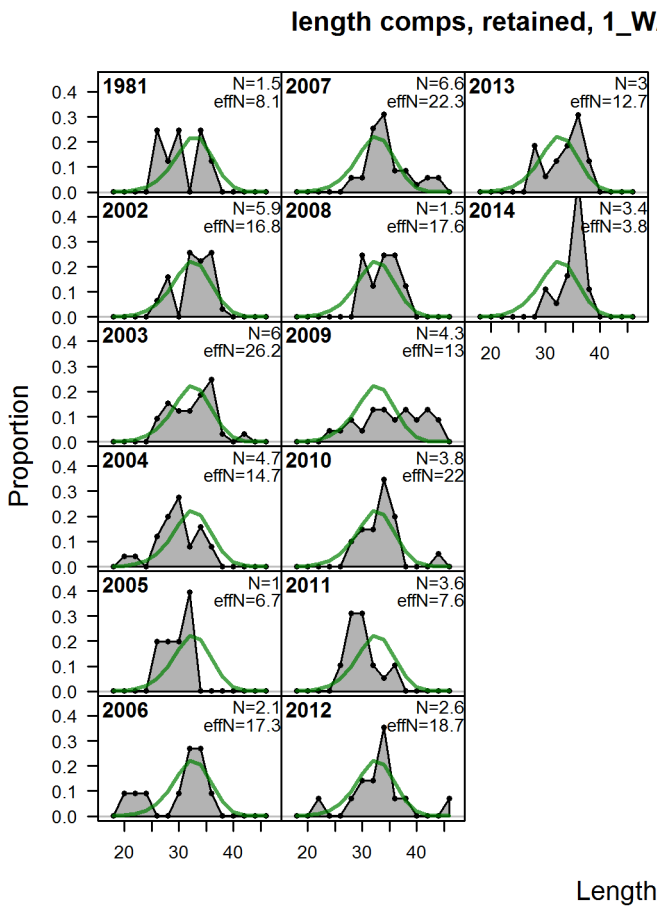


Figure 11: length comps, retained, 1_WA_SouthernWA_Rec_PCPR [fig:mod1_1_comp_lenfit_flt1mkt2]

Figure 12: Pearson residuals, retained, 1_WA_SouthernWA_Rec_PCPR (max=4.76)
Closed bubbles are positive residuals (observed > expected) and open bubbles are negative residuals (observed < expected). fig:mod1_2_comp_lenfit_residsf1t1mkt2

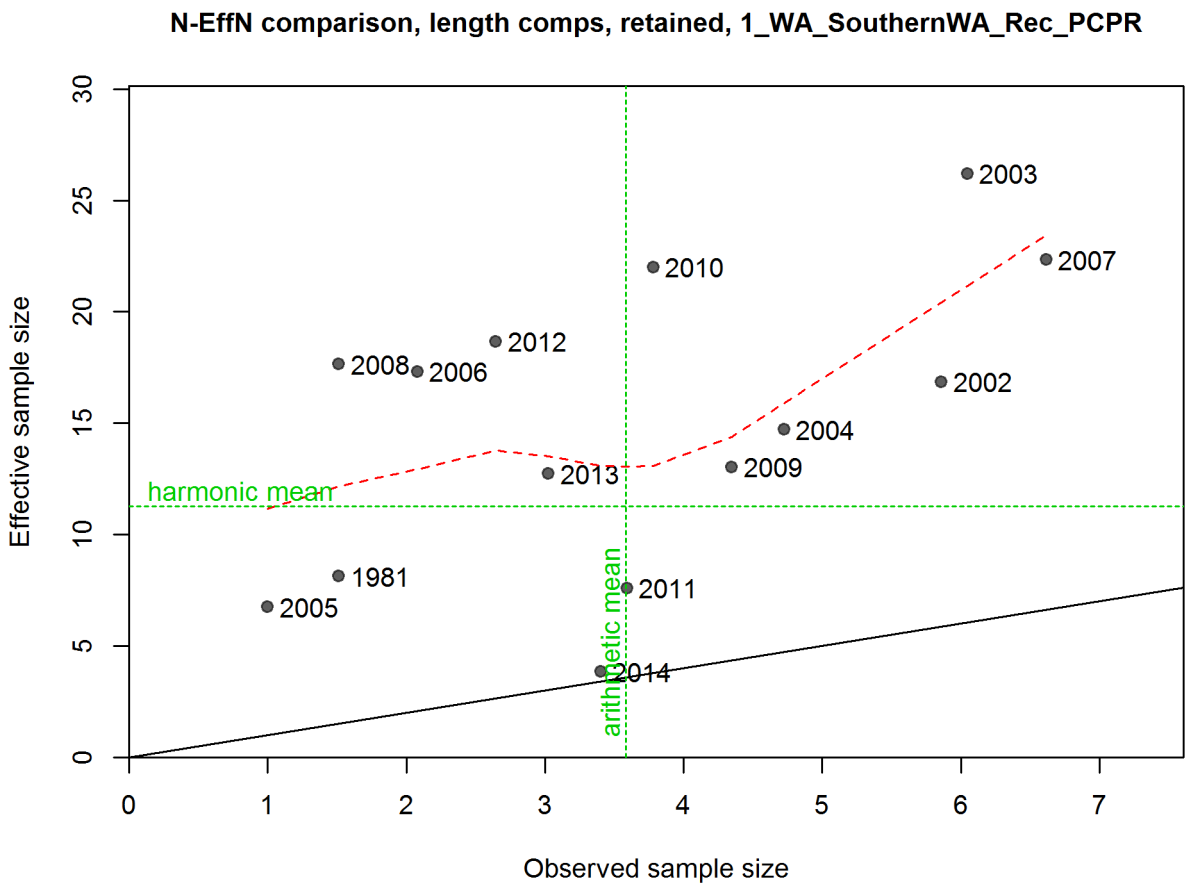


Figure 13: N_EffN comparison, length comps, retained, 1_WA_SouthernWA_Rec_PCPR [fig:mod1_3_comp_lenfit_

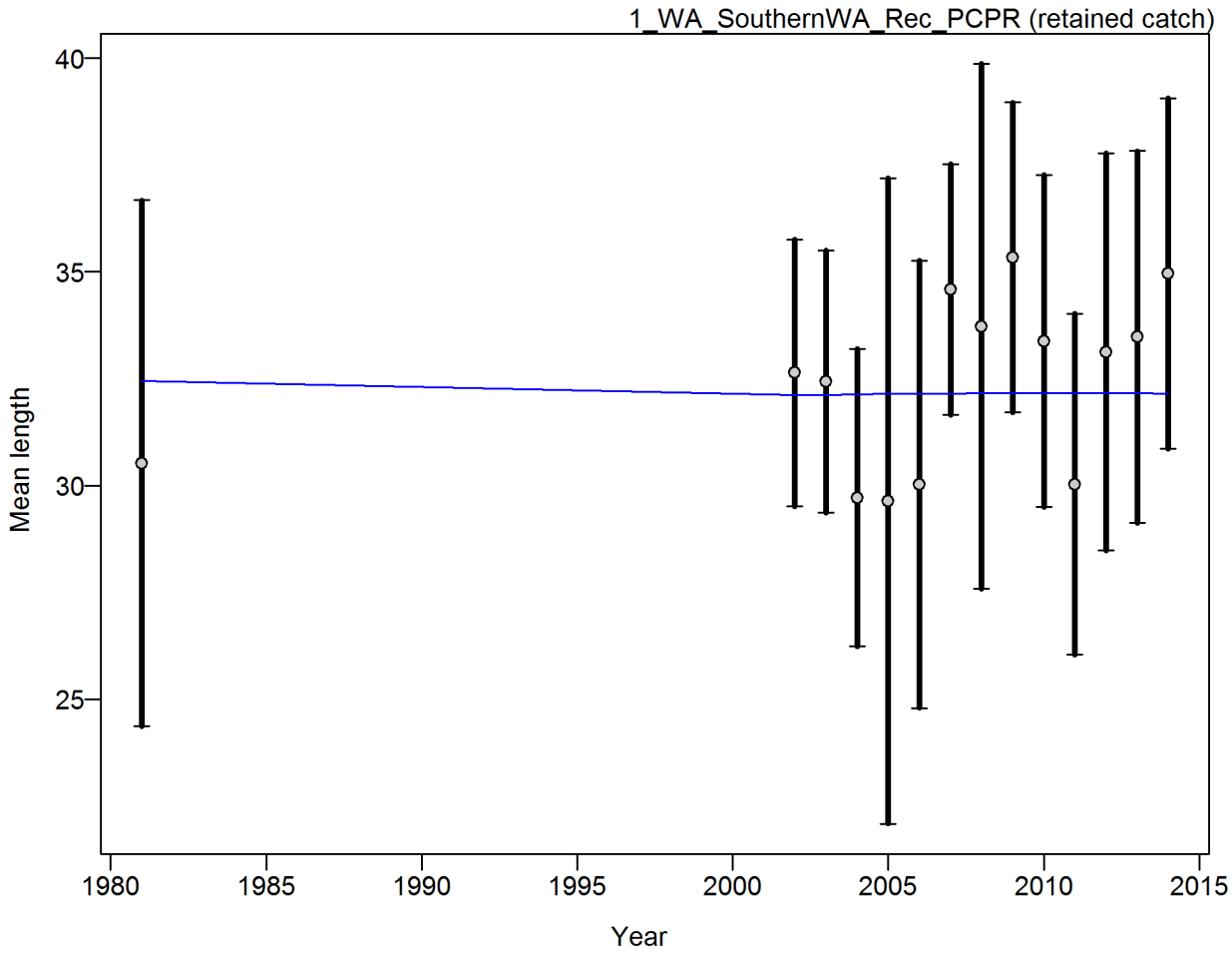


Figure 14: Francis data weighting method TA1.8 1_WA_SouthernWA_Rec_PCPR Suggested sample size adjustment (with 95% interval) for len data from 1_WA_SouthernWA_Rec_PCPR: 0.9991 (0.6951_2.1587)
fig:mod1_4_comp_lenfit_data_weighting_TA1.8_1_WA_SouthernWA_Rec_PCPR

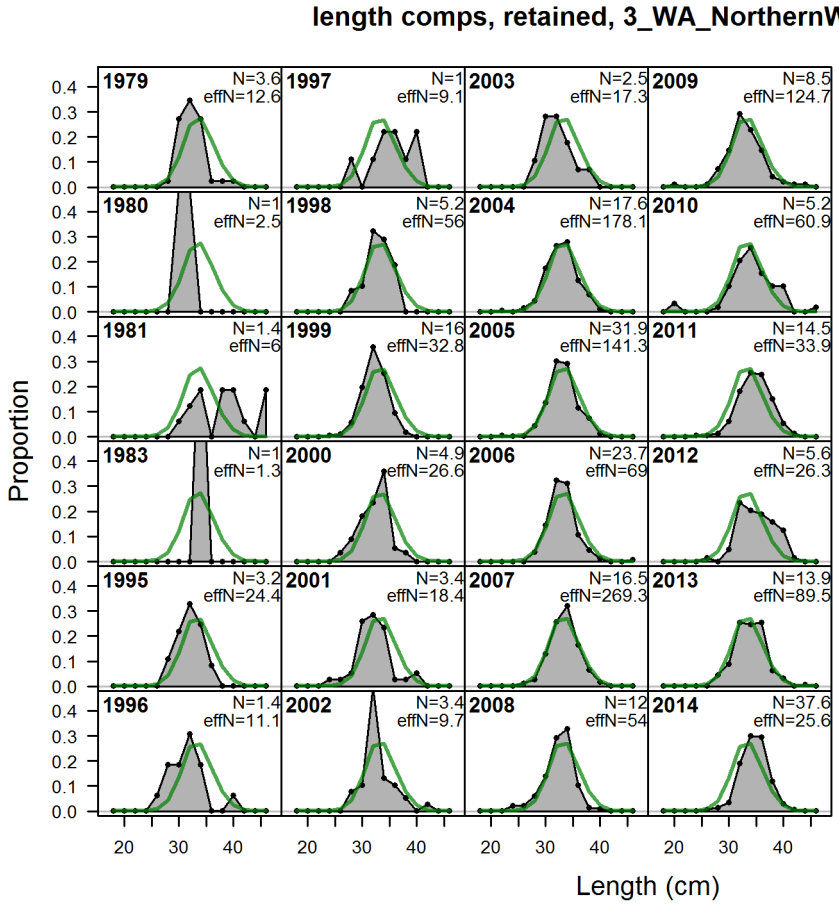


Figure 15: length comps, retained, 3_WA_NorthernWA_Rec_PR (fig:mod1_5_comp_lenfit_flt3mkt2)

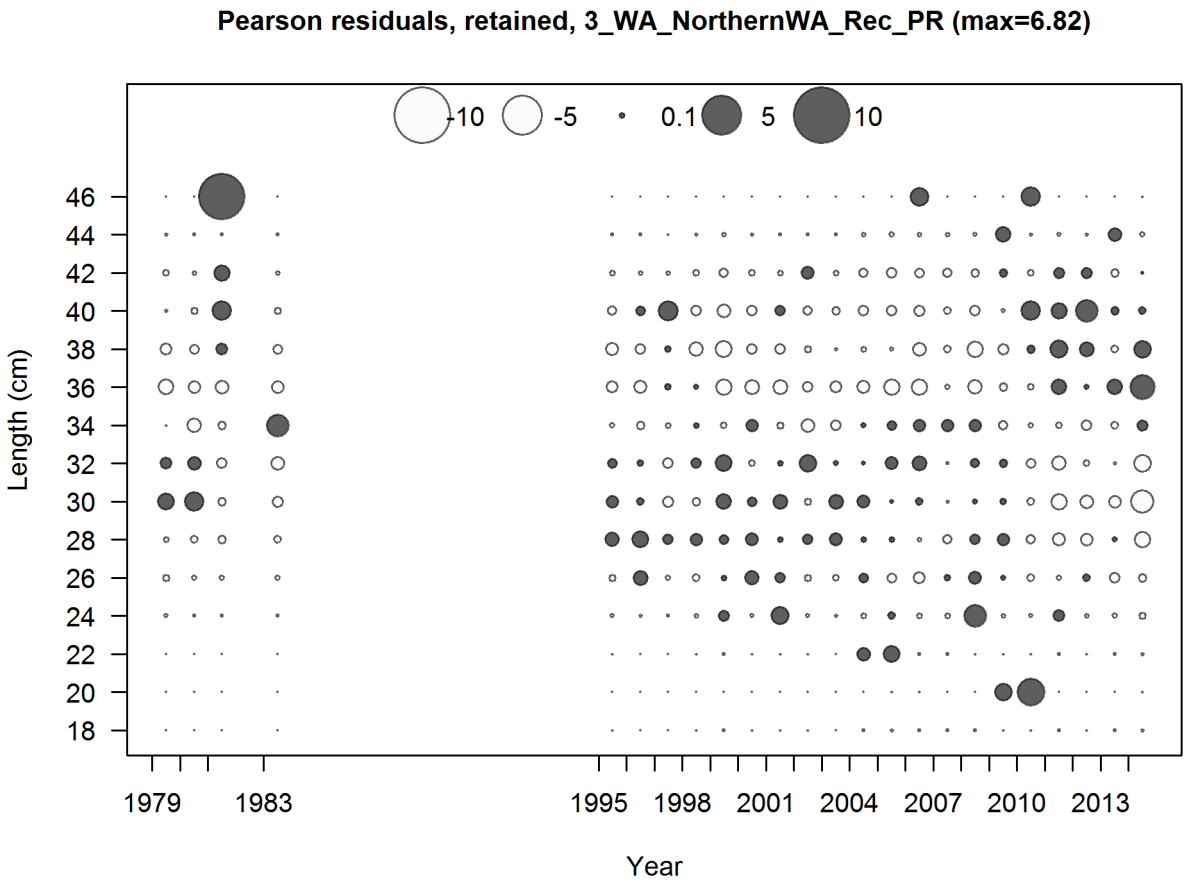


Figure 16: Pearson residuals, retained, 3_WA_NorthernWA_Rec_PR (max=6.82)
Closed bubbles are positive residuals (observed > expected) and open bubbles are negative residuals (observed < expected). `fig:mod1_6_comp_lenfit_residsf1t3mkt2`

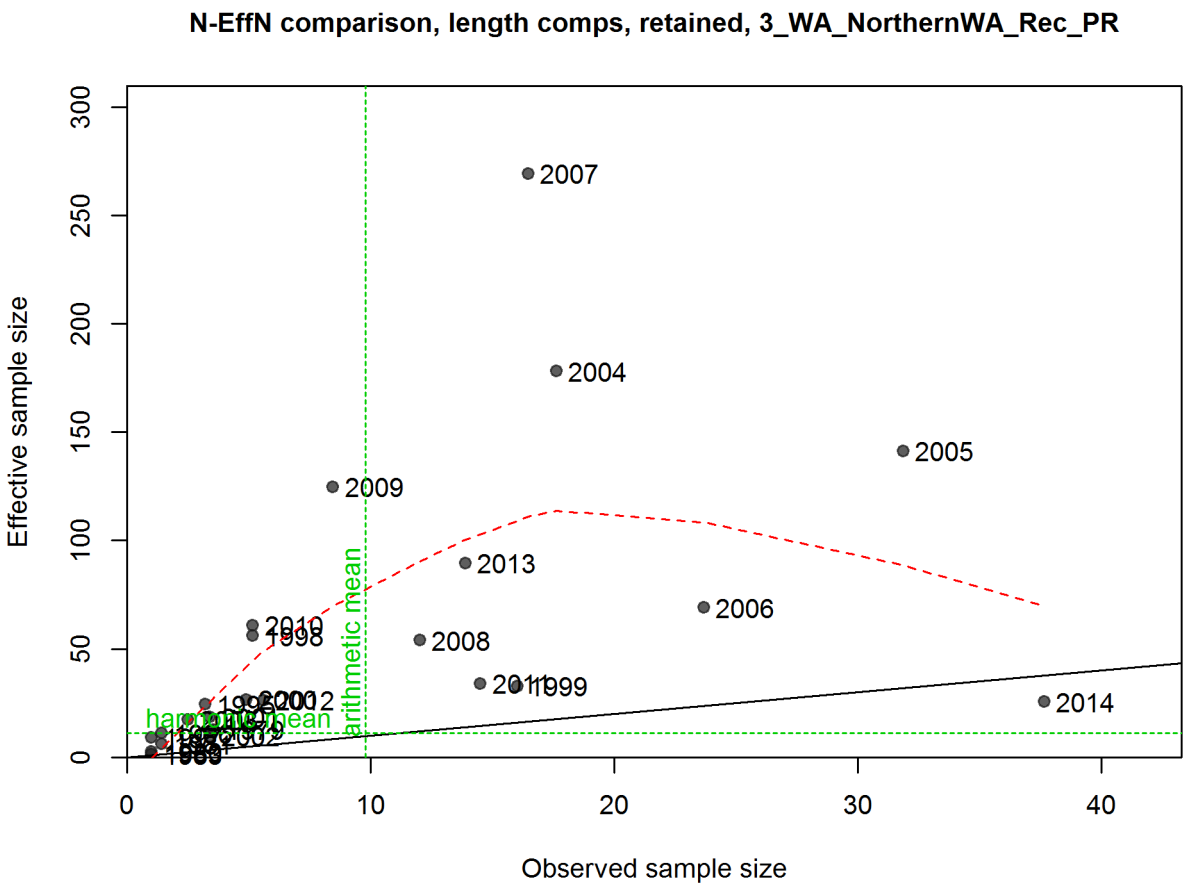


Figure 17: N_EffN comparison, length comps, retained, 3_WA_NorthernWA_Rec_PR [fig:mod1_7_comp_lenfit_s

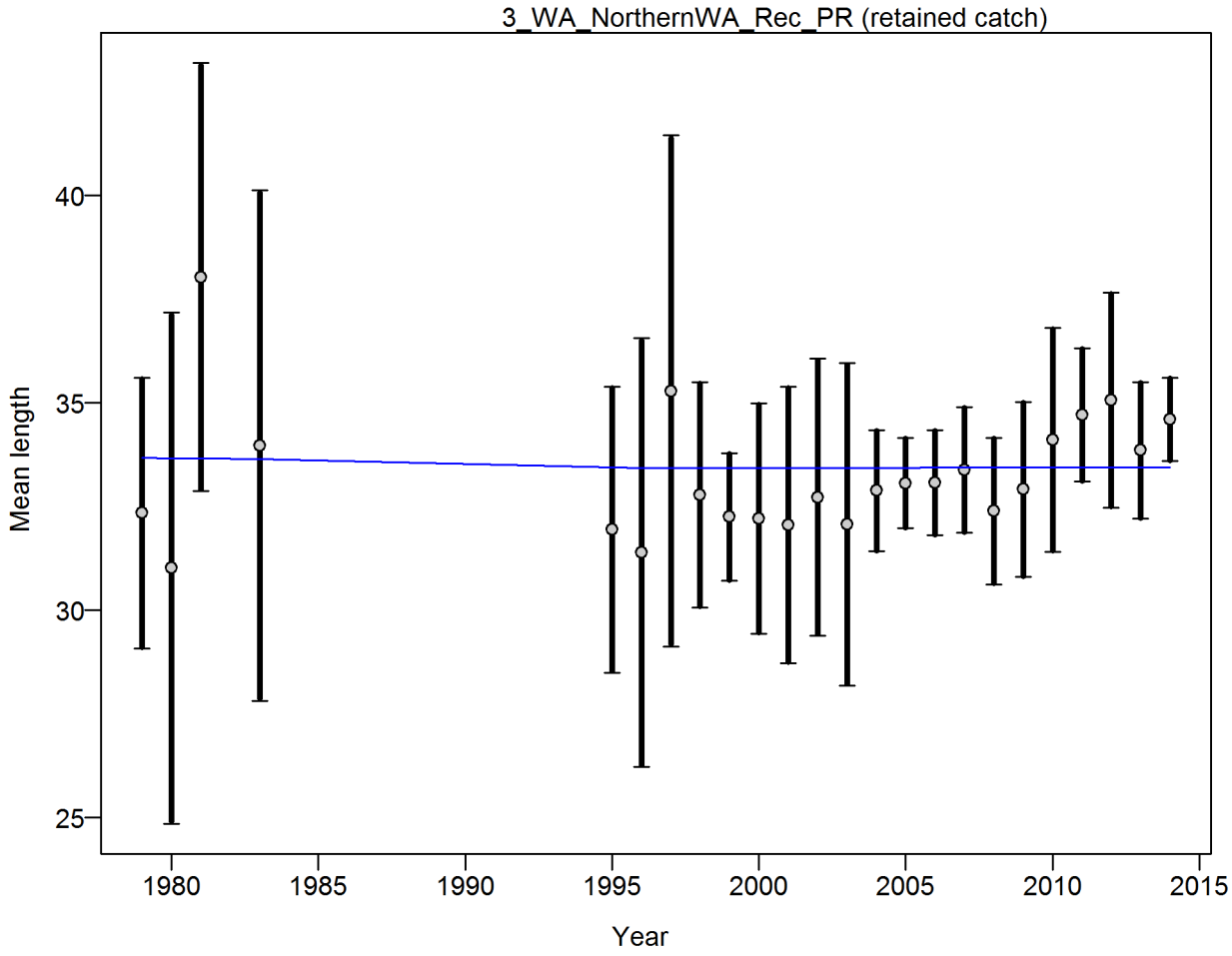


Figure 18: Francis data weighting method TA1.8 3_WA_NorthernWA_Rec_PR Suggested sample size adjustment (with 95% interval) for len data from 3_WA_NorthernWA_Rec_PR: 0.9797 (0.6452_2.3201) [fig:mod1_8_comp_

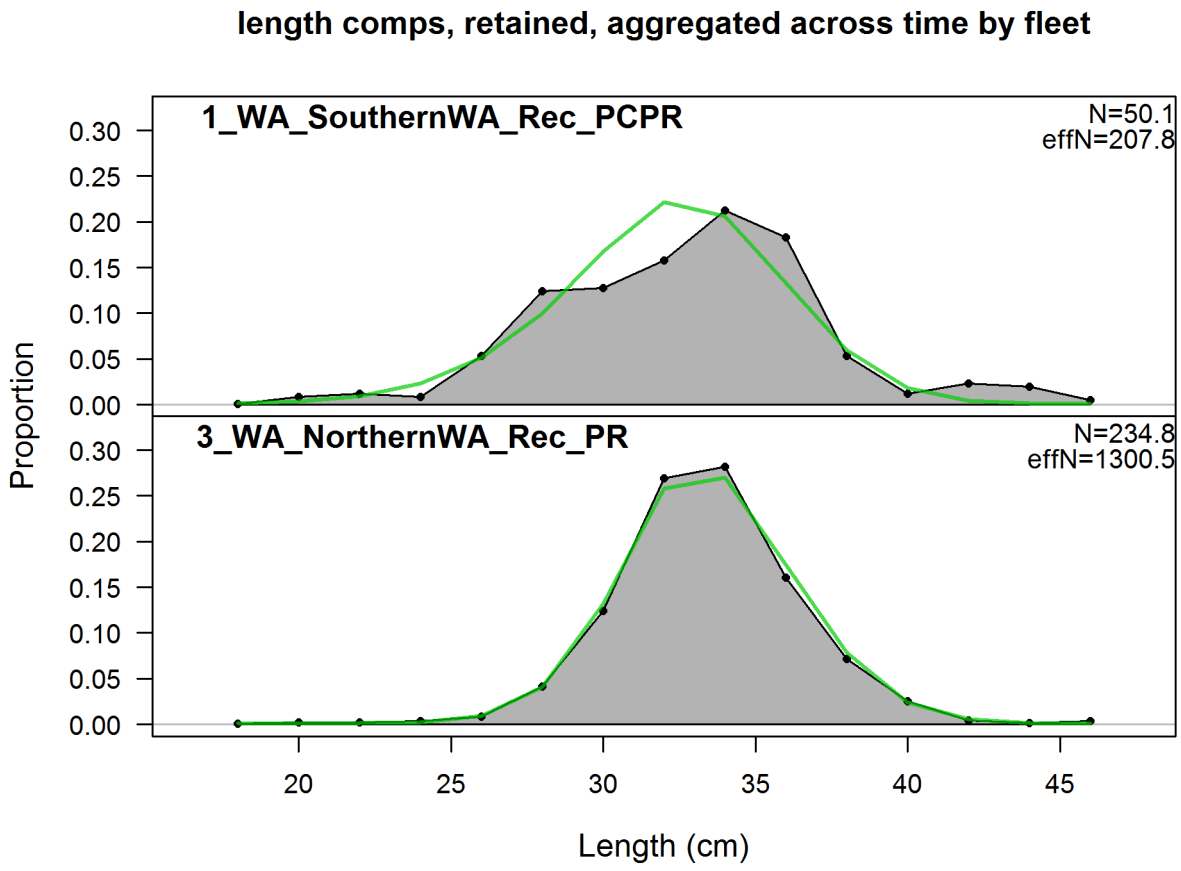


Figure 19: length comps, retained, aggregated across time by fleet [fig:mod1_9_comp_lenfit_mkt2_aggreg

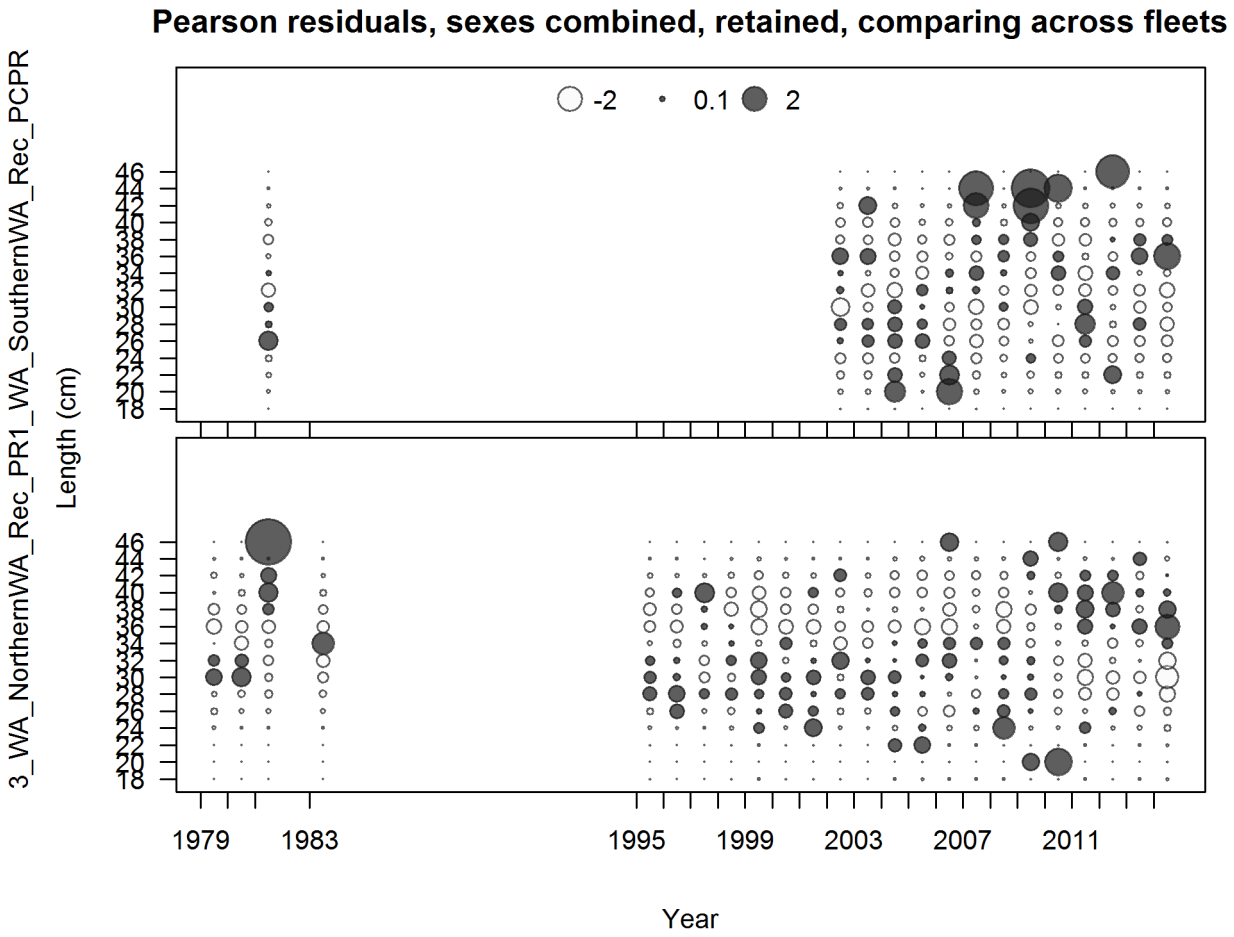


Figure 20: Note: this plot doesn't seem to be working right for some models. Pearson residuals, sexes combined, retained, comparing across fleets
Closed bubbles are positive residuals (observed > expected) and open bubbles are negative residuals (observed < expected). `fig:mod1_10_comp_lenfit_sex1mkt2_multi-fleet_comparison`

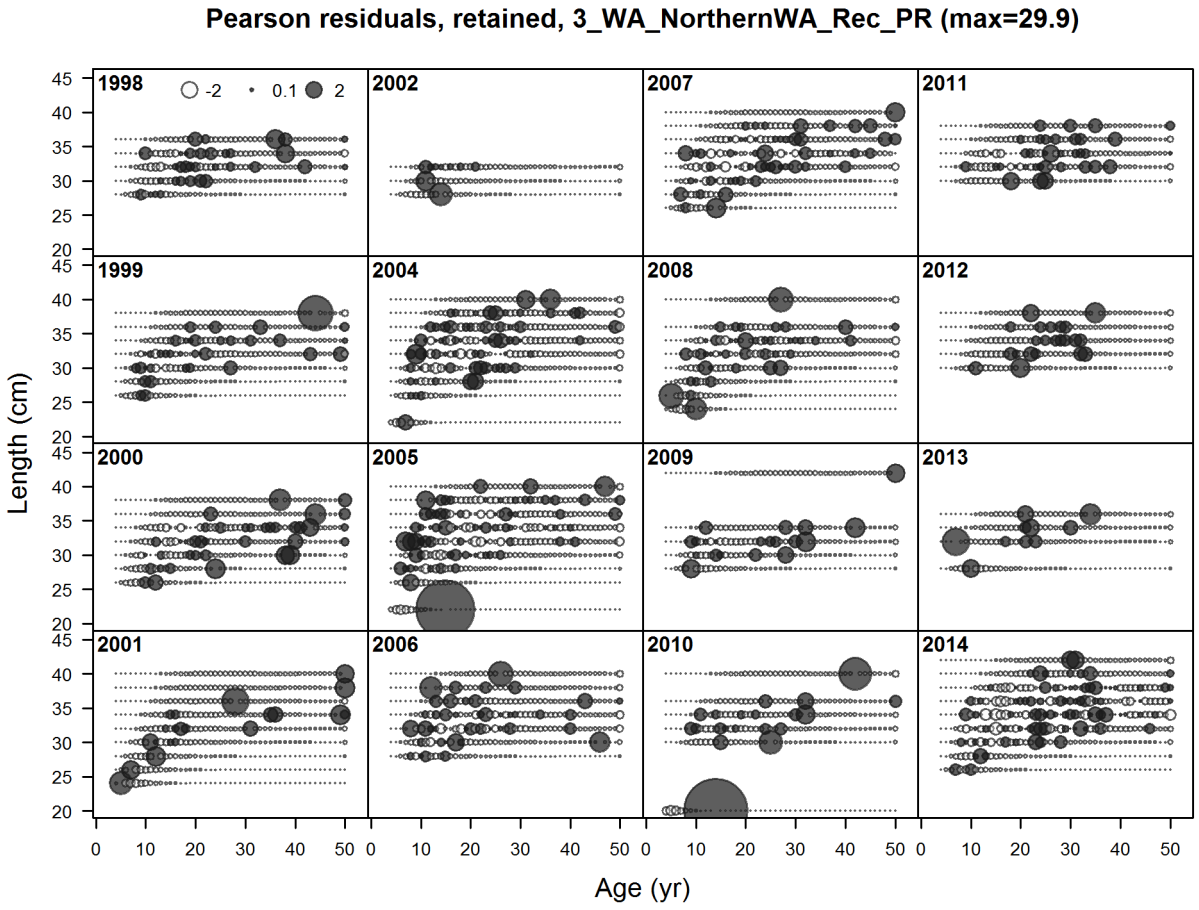


Figure 21: Pearson residuals, retained, 3_WA_NorthernWA_Rec_PR (max=29.9) [fig:mod1_1_comp_condAALfit

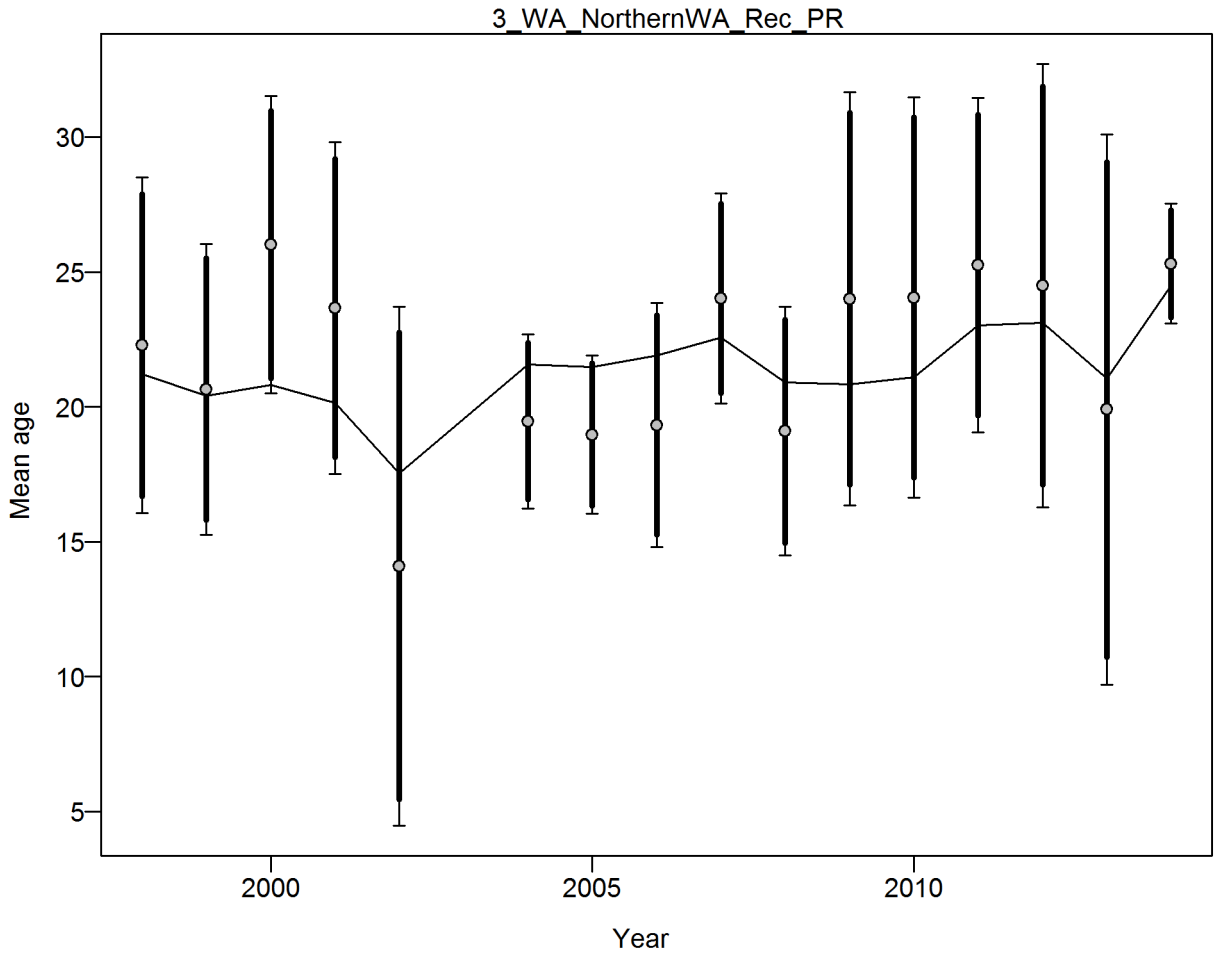


Figure 22: Francis data weighting method TA1.8 for conditional age data 3_WA_NorthernWA_Rec_PR
For more info, see Francis, R.I.C.C. (2011). Data weighting in statistical fisheries stock assessment models.
Can. J. Fish. Aquat. Sci. 68: 1124_1138. fig:mod1_2_comp_condAALfit_data_weighting_TA1.8_condAge3_WA_NorthernWA_Rec_

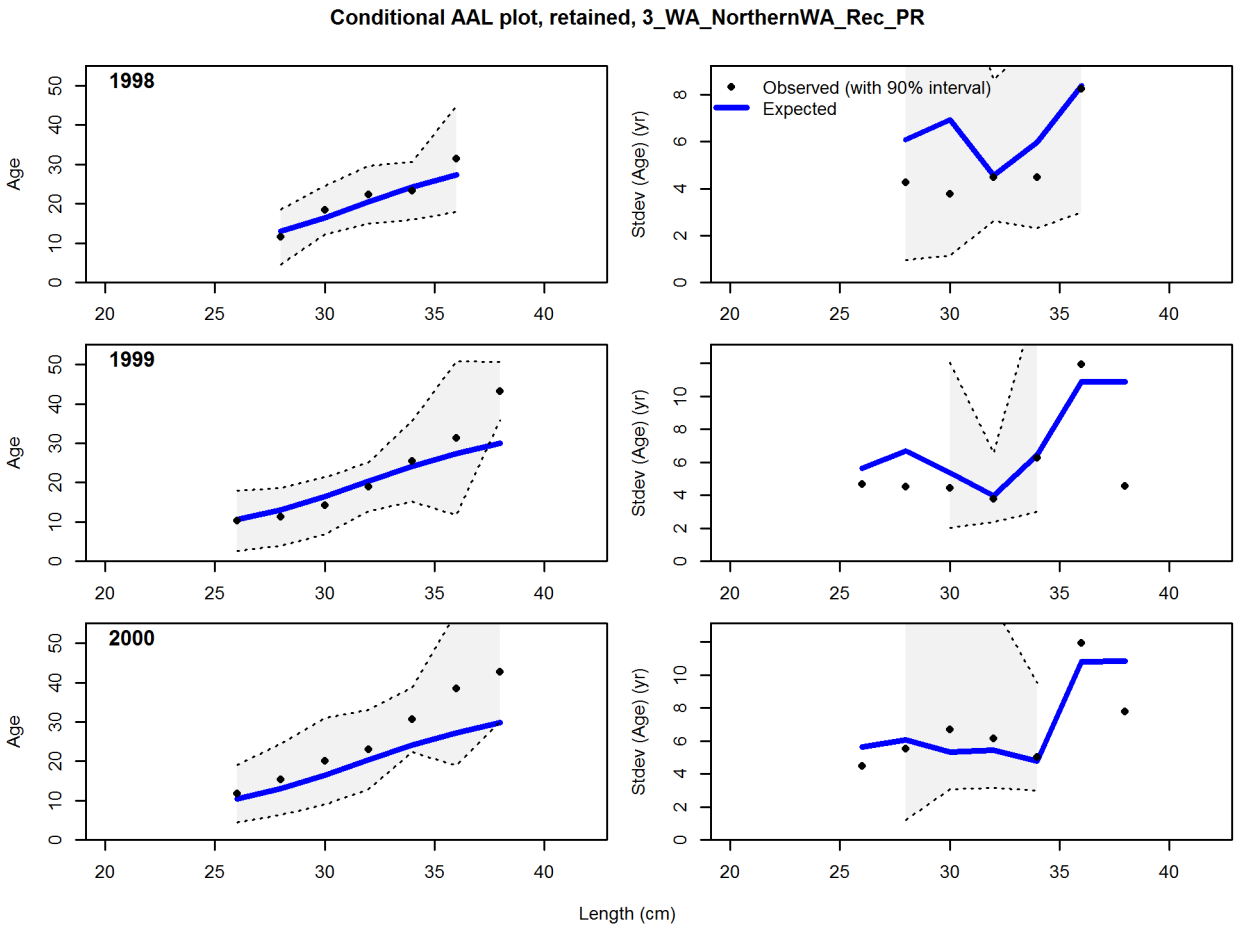
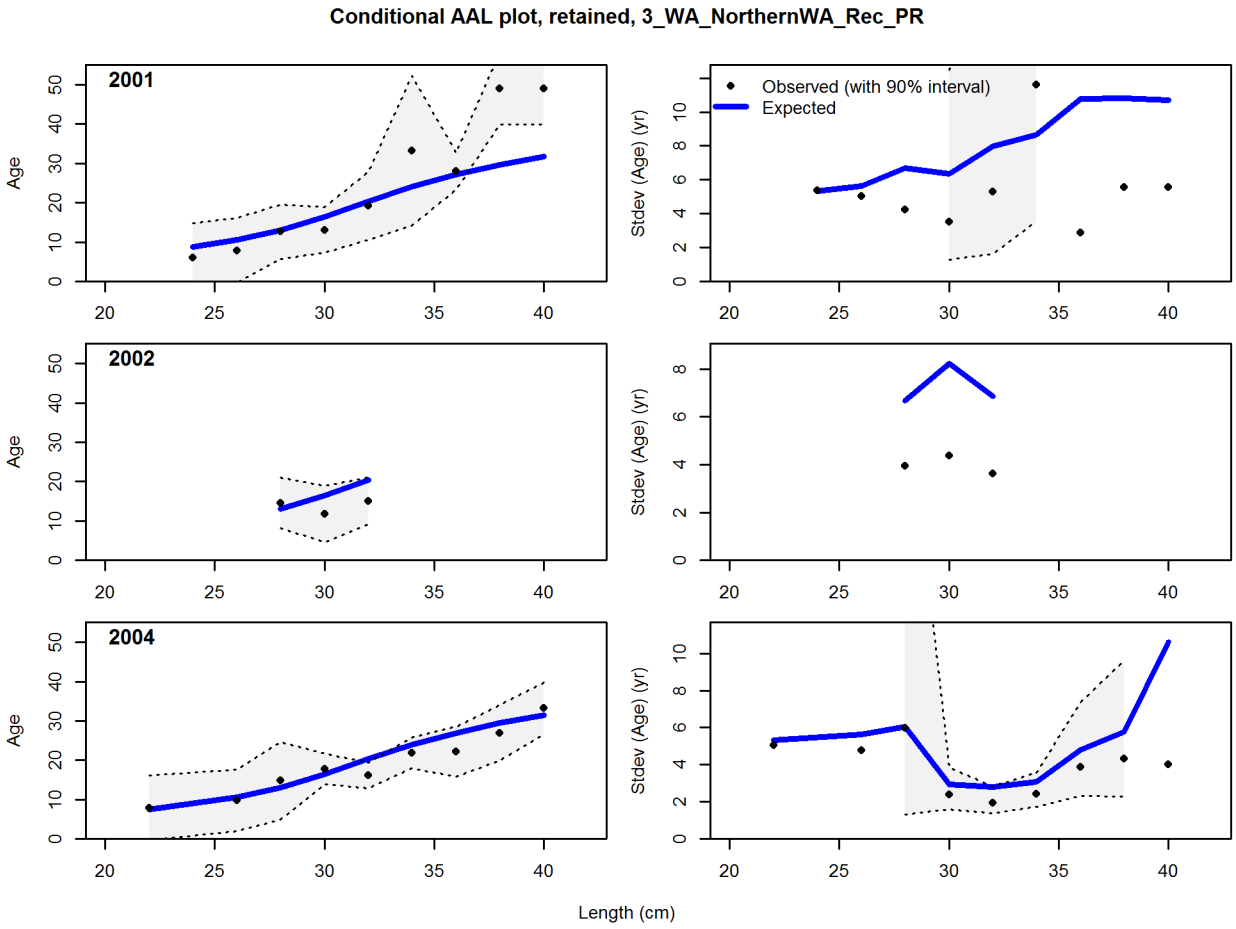


Figure 23: Conditional AAL plot, retained, 3_WA_NorthernWA_Rec_PR (plot 1 of 6) These plots show mean age and std. dev. in conditional AAL. Left plots are mean AAL by size_class (obs. and pred.) with 90% CIs based on adding 1.64 SE of mean to the data. Right plots in each pair are SE of mean AAL (obs. and pred.) with 90% CIs based on the chi_square distribution. `fig:mod1_3_comp_condAALfit_Andre_plotsflt3mkt2_page1`



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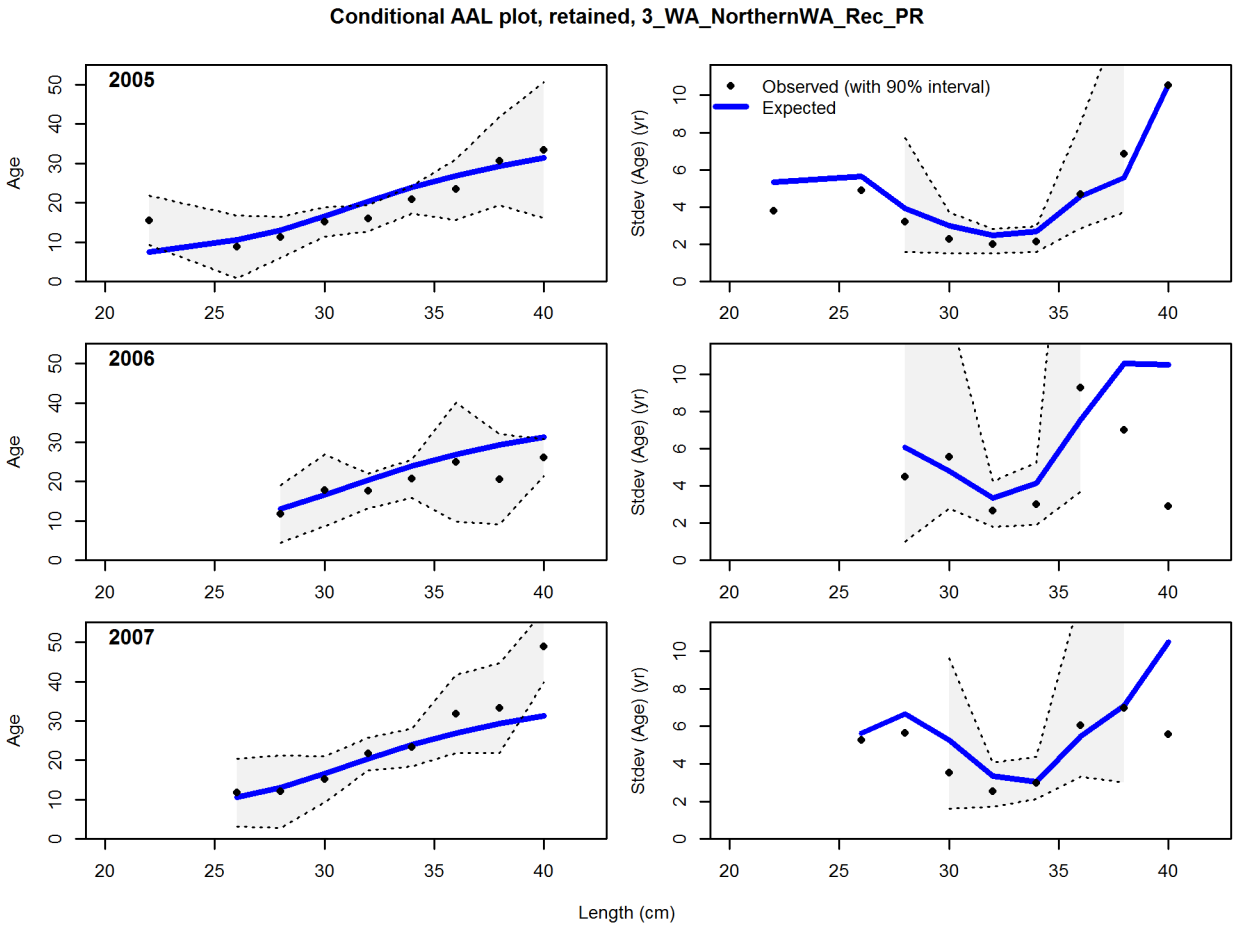

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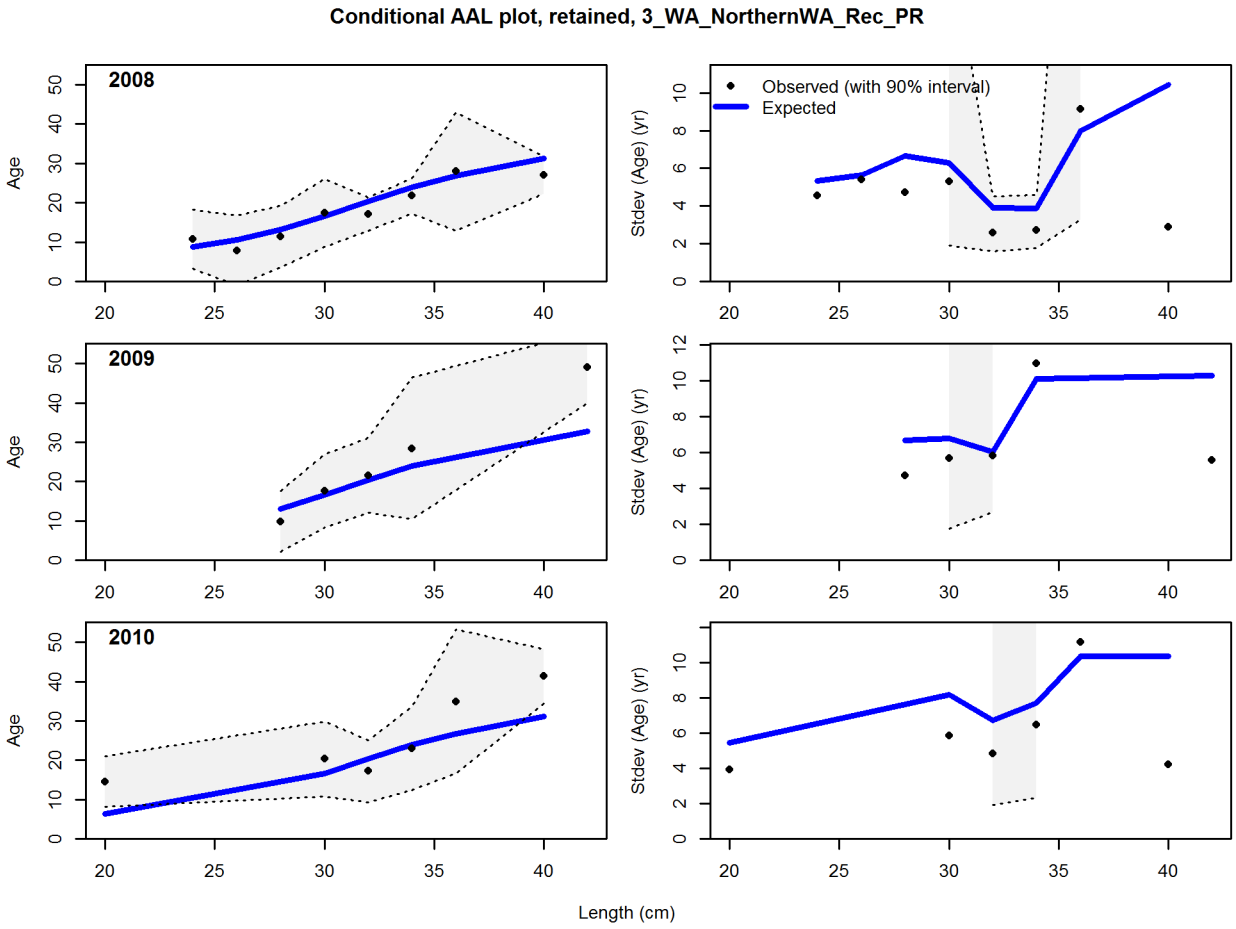

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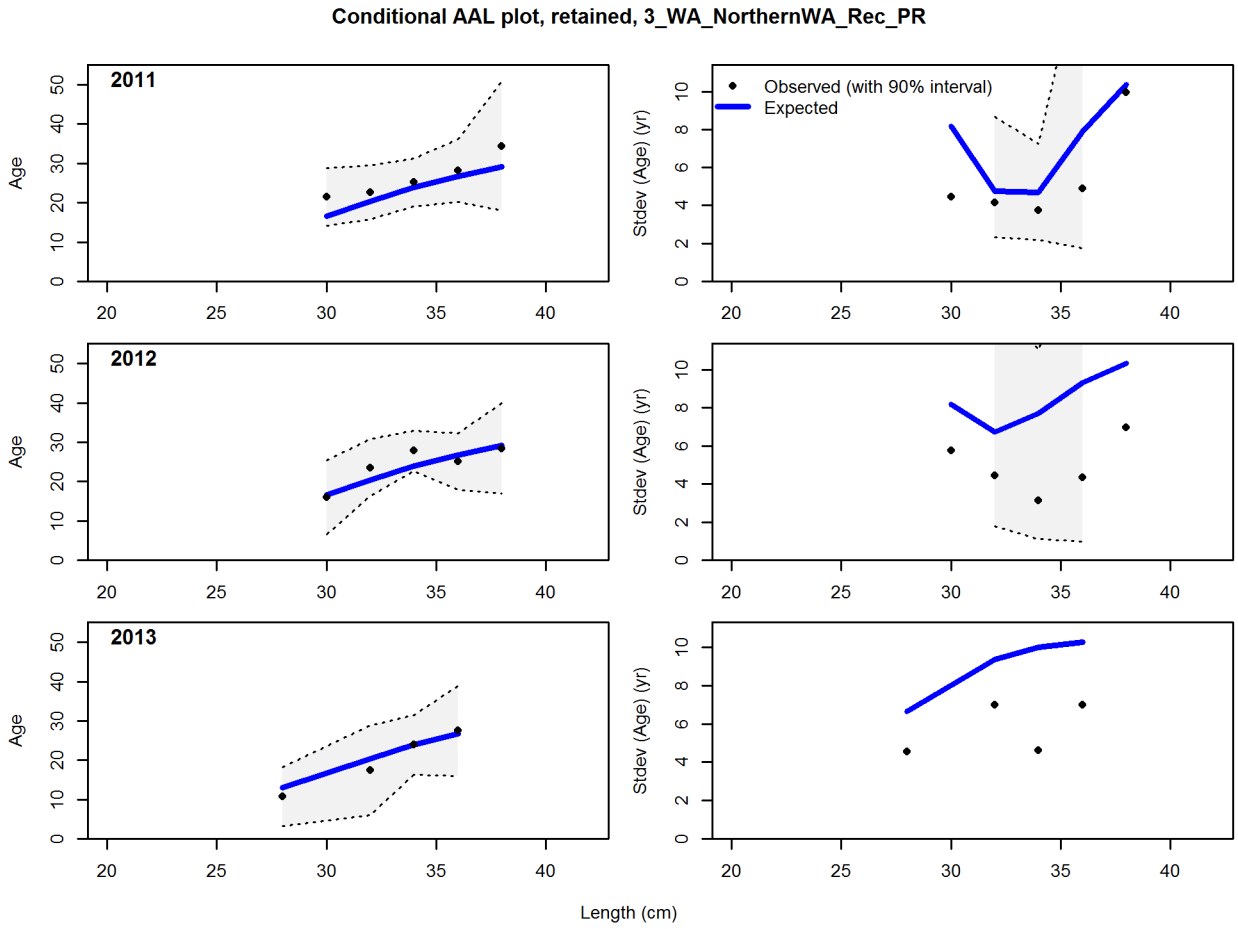

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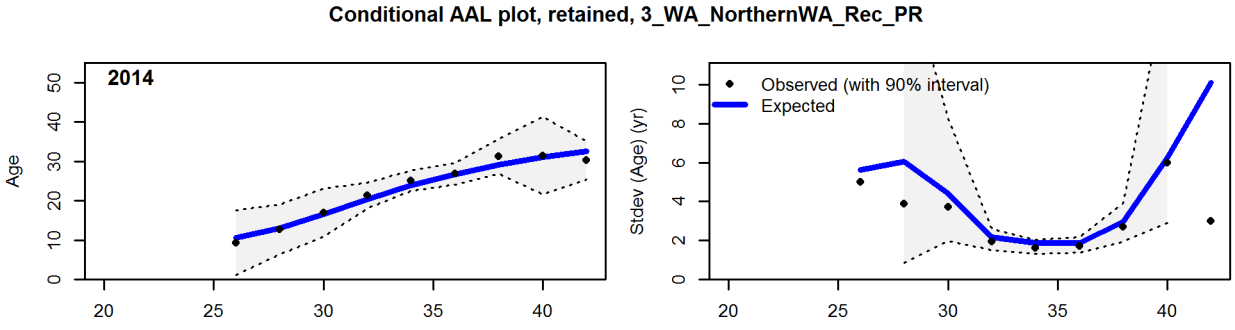

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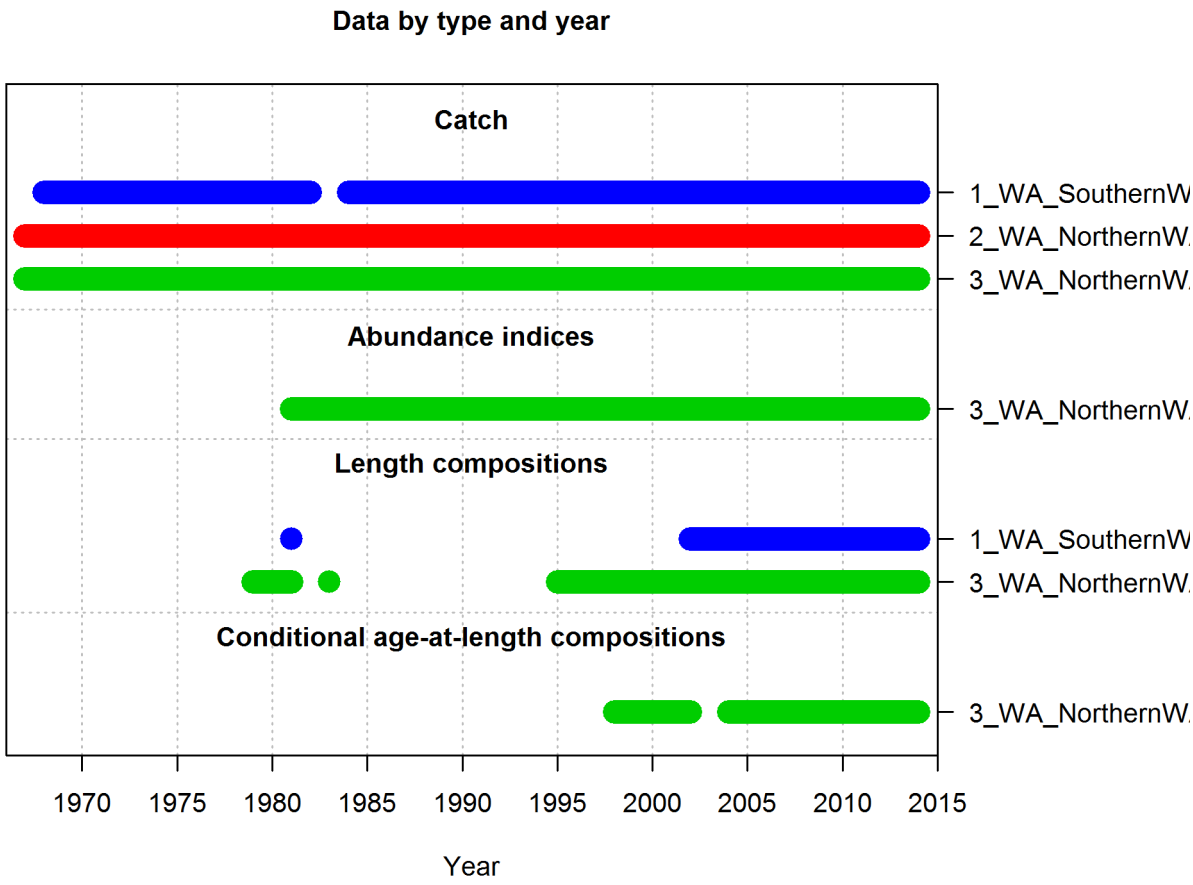
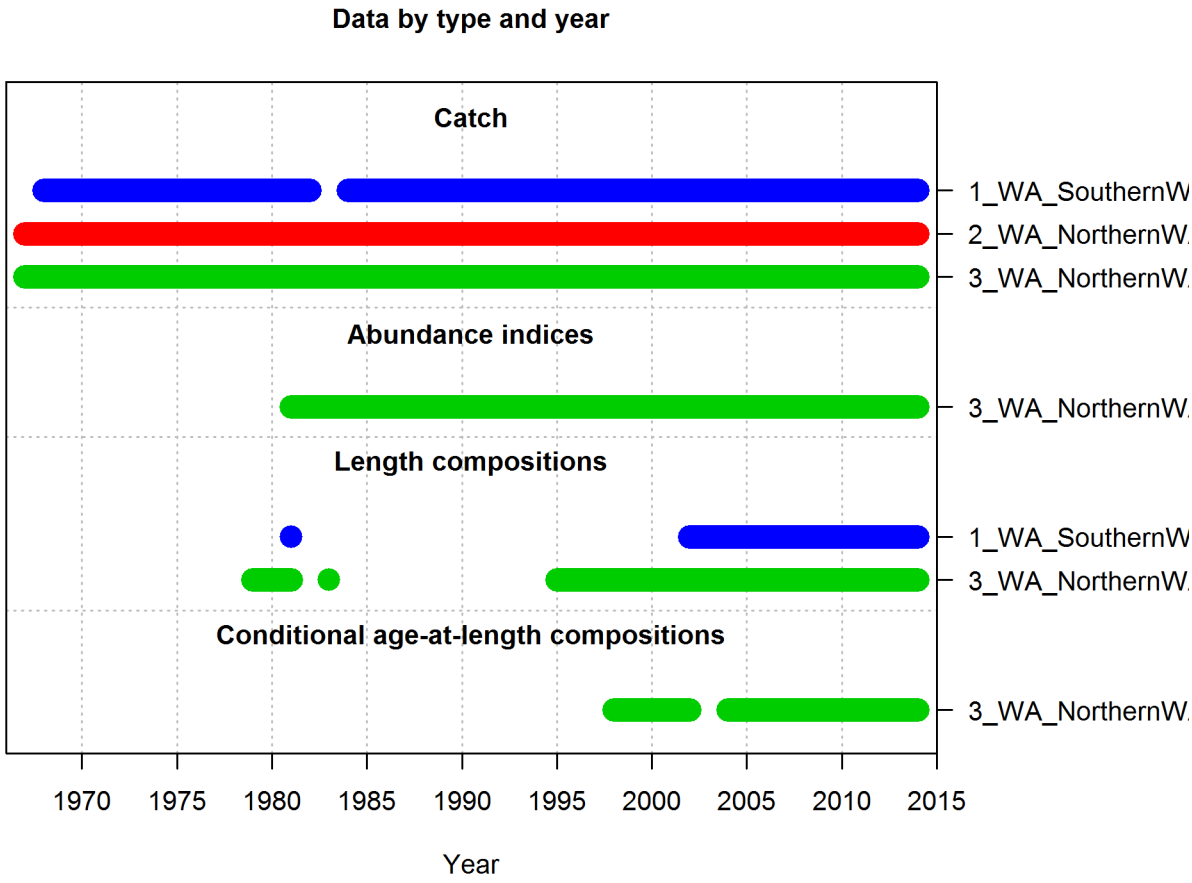


Figure 24: 1-Summary of data sources used in the base case assessment. `fig:data_plot`



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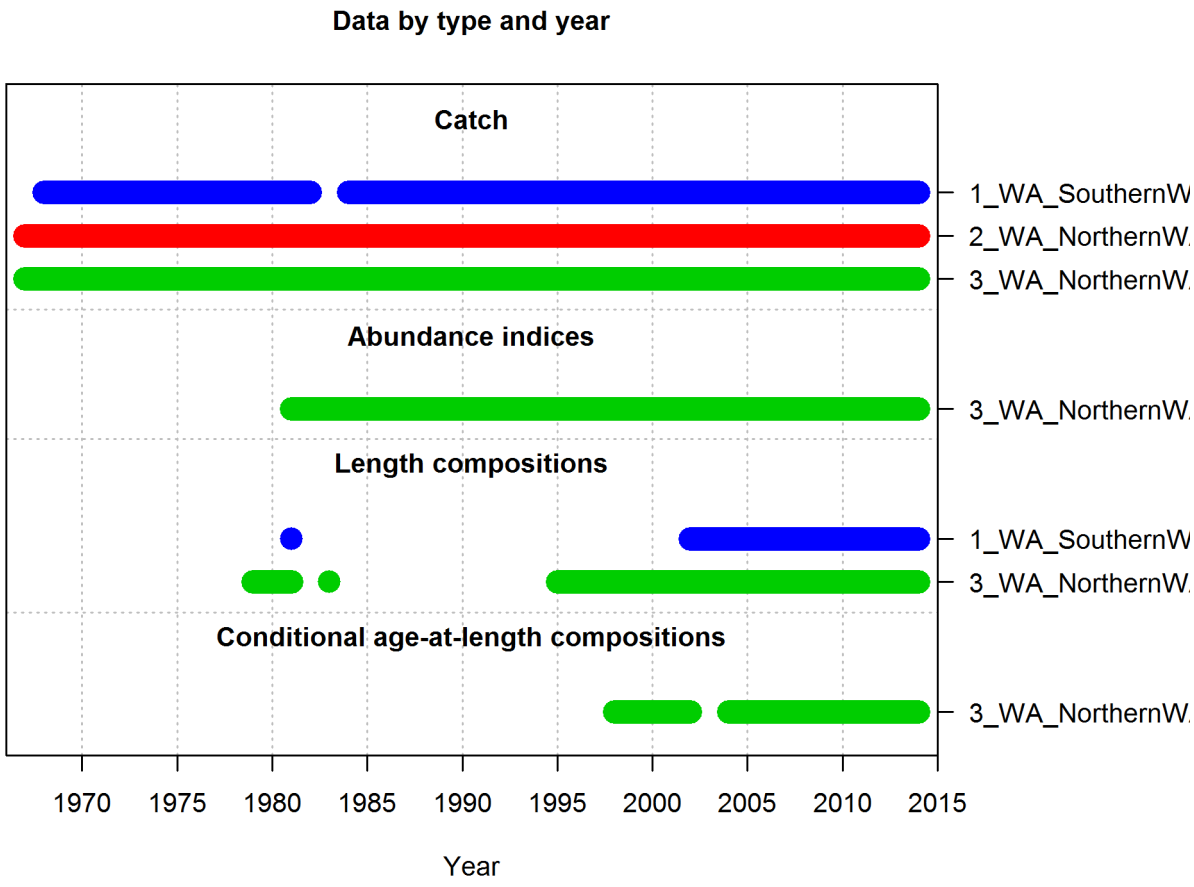

Figure 25: 3-Summary of data sources used in the base case assessment. `fig:data_plot`