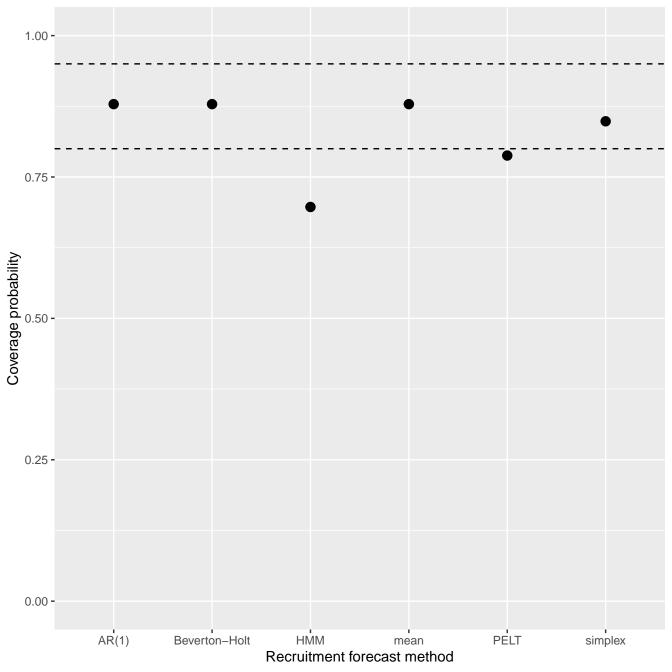
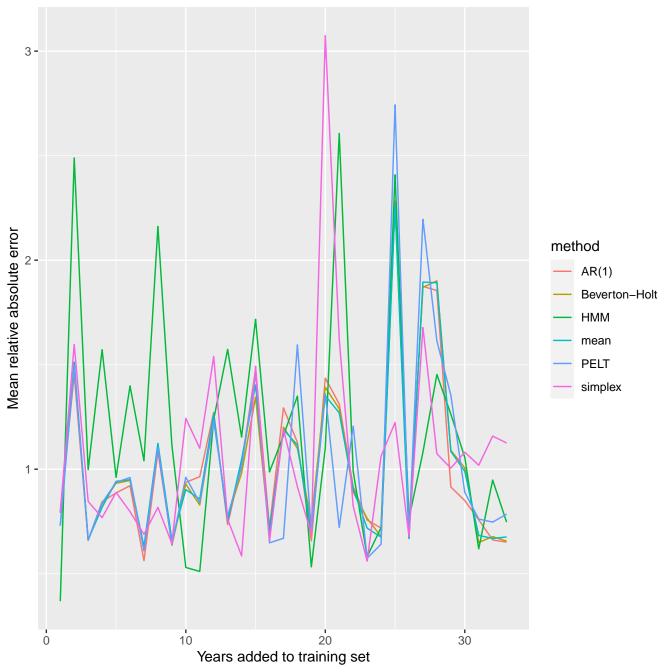
1-step Forecasts (a) mean (b) AR(1) 4000 -3000 -Recruitment 2000 - 1000 -Recruitment 2000 1000 -0 -0 -1970 2000 1970 1980 2010 2000 2010 1980 1990 1990 Year Year (c) Beverton-Holt (d) simplex 4000 -6000 -3000 -Recruitment **Recruitment** 4000 -2000 1000 -0 -0 -2000 1970 1980 2010 1970 2000 2010 1980 1990 1990 Year Year (f) PELT (e) HMM 4000 -4000 -Recruitment 2000 - 1000 Recruitment 3000 -2000 -1000 -0 -0 -1970 2000 2010 1970 2000 2010 1980 1980 1990 1990 Year Year





5-step Forecasts (a) mean (b) AR(1) 4000 -4000 -Recruitment 2000 - 1000 Recruitment 2000 - 1000 3000 -0 -0 -1970 2000 1970 2000 1980 2010 1980 2010 1990 1990 Year Year (c) Beverton-Holt (d) simplex 4000 -3000 -Recruitment 2000 - 1000 - 1000 -Recruitment 2000 1000 -0 -0 -2010 1970 1980 2000 2010 1970 1980 2000 1990 1990 Year Year (f) PELT (e) HMM 4000 -4000 -Recruitment 2000 - 2000 - 1000 -Recruitment 2000 - 1000 3000 -0 -0 -1970 2000 2010 1970 1980 2000 2010 1980 1990 1990

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