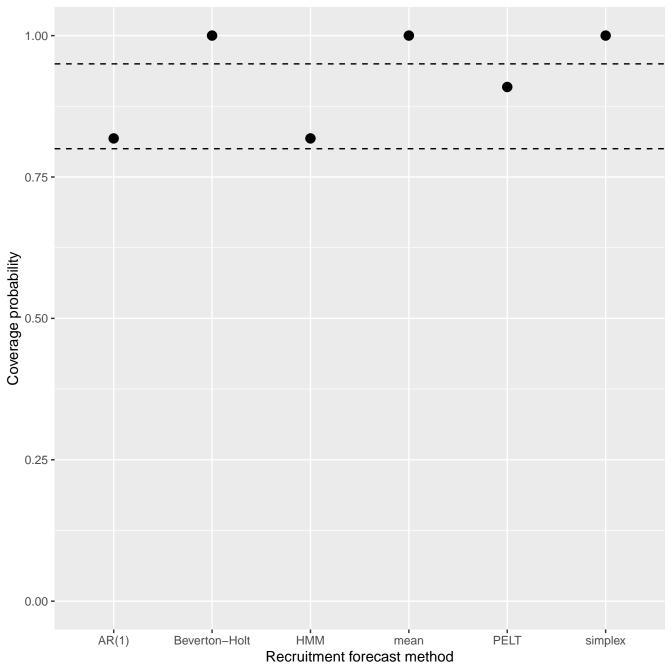
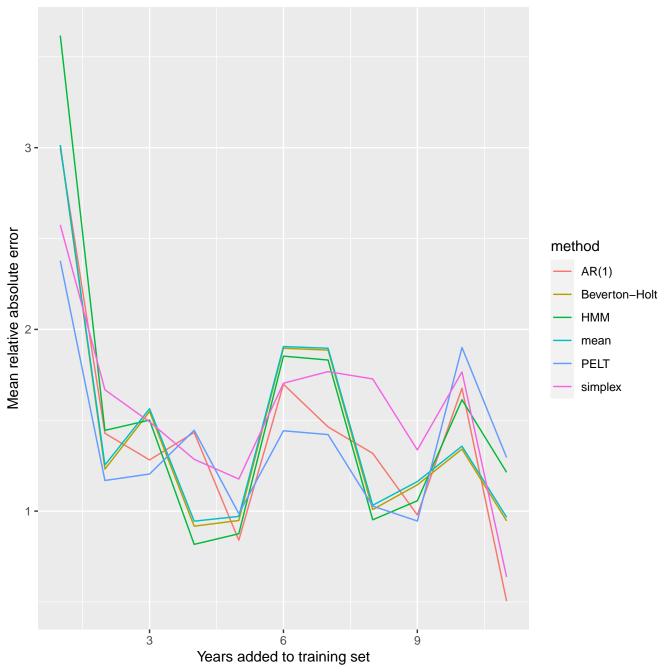
1-step Forecasts (a) mean (b) AR(1) 6e+07 7.5e+07 5.0e+07 2.5e+07 Recruitment 4e+07 2e+07 0.0e+00 1990 2000 2010 2020 1990 2000 2010 2020 Year Year (c) Beverton-Holt (d) simplex 6e+07 9e+07 Recruitment 6e+07 3e+07 Recruitment 4e+07 2e+07 0e+00 2010 1990 2000 2020 1990 2000 2010 2020 Year Year (e) PELT (f) HMM 6e+07 6e+07 **Secration**We carried to the secretary of the secretary Recruitment 4e+07 2e+07 0e+00 1990 2000 2010 2020 1990 2000 2010 2020 Year

Year





(a) mean (b) AR(1) 6e+07 6e+07 Recruitment 4e+07 Recruitment 4e+07 2e+07 1990 2000 2010 2020 1990 2000 2010 2020 Year Year (c) Beverton-Holt (d) simplex 1.25e+08 6e+07 1.00e+08 Recruitment 4e+07 7.50e+07 5.00e+07 2e+07 2.50e+07 0.00e+00 2010 1990 2000 1990 2000 2010 2020 2020 Year Year (e) PELT (f) HMM 6e+07 6e+07

5-step Forecasts

