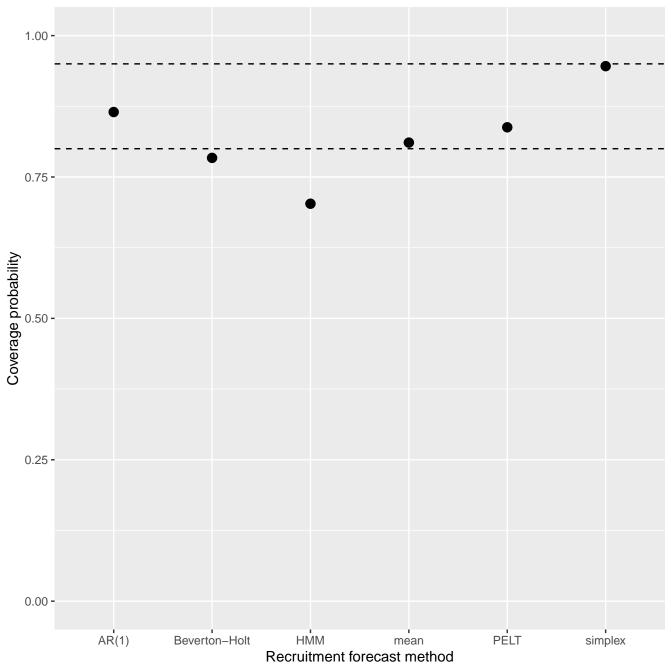
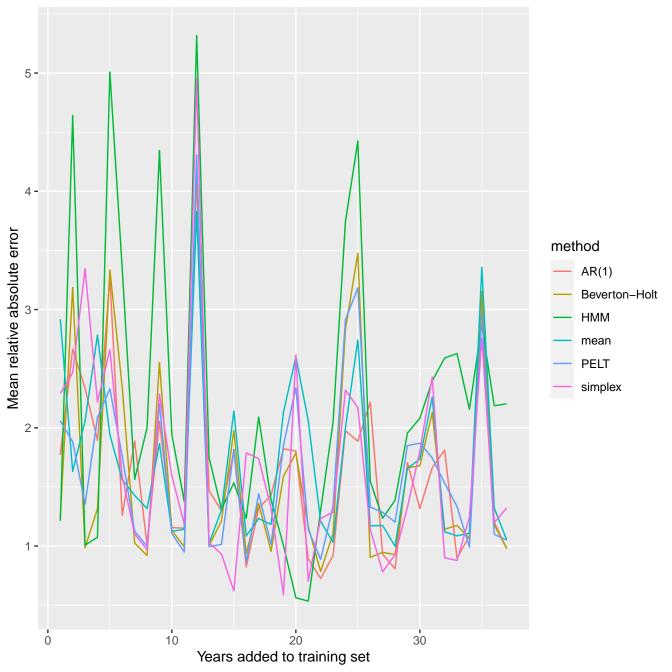
1-step Forecasts (a) mean (b) AR(1) 1000 -1200 -Recruitment Recruitment 750 800 500 -400 -250 **-**0 -0 -1980 2020 1980 2000 2000 2020 Year Year (c) Beverton-Holt (d) simplex 900 -Recruitment Recruitment 1000 -600 -500 -300 -0 -0 -1980 1980 2000 2020 2000 2020 Year Year (e) HMM (f) PELT Recruitment - 000 - 000 1500 -900 Recruitment 1000 -500 -0 -0 -1980 1980 2000 2020 2000 2020 Year Year





5-step Forecasts (a) mean (b) AR(1) 1000 -1000 -Recruitment Recruitment 750 750 500 -500 -250 -250 **-**0 -0 -1980 2020 1980 2000 2000 2020 Year Year (c) Beverton-Holt (d) simplex 1500 -900 -Recruitment Recruitment 1000 -600 -500 -300 -0 -0 -1980 1980 2000 2020 2000 2020 Year Year (e) HMM (f) PELT 2000 -900 1500 **-**Recruitment Recruitment 600 -1000 -300 -500 -0 -0 -1980 2000 1980 2020 2000 2020 Year Year

