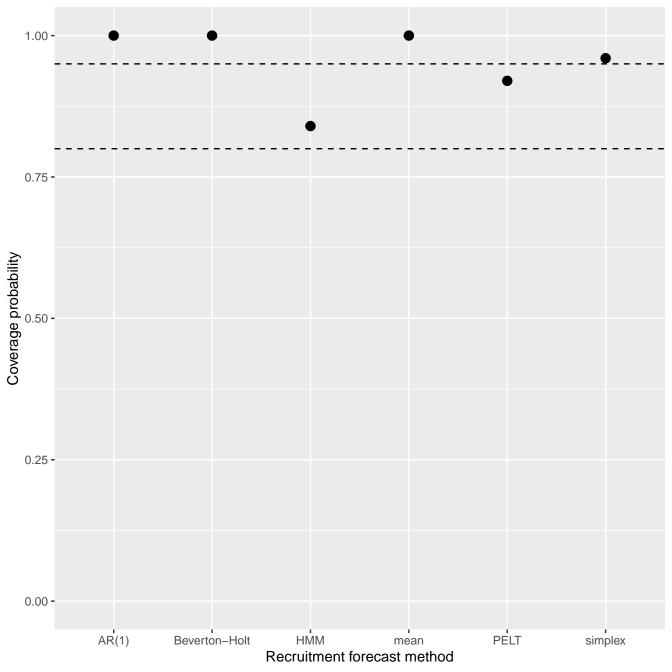
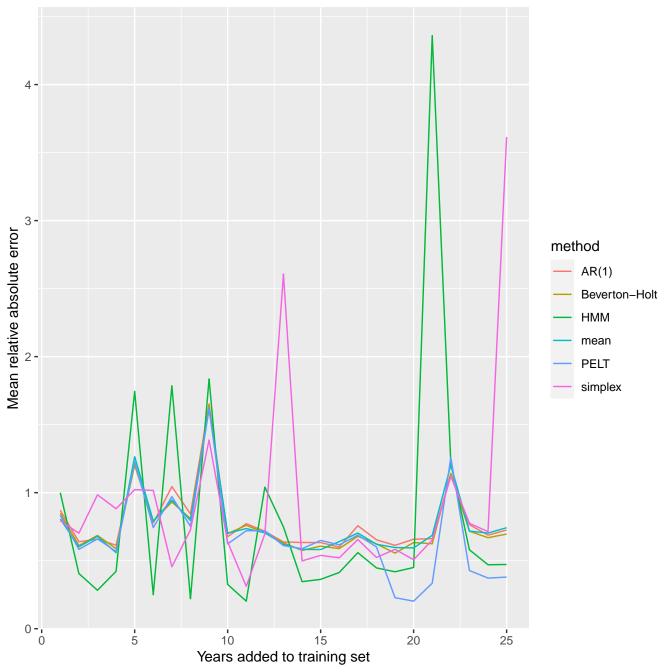
1-step Forecasts (a) mean (b) AR(1) 600 -600 -Recruitment Recruitment 400 -400 -200 -200 0 -0 -1980 1990 2000 2010 202 1980 1990 2010 202 2000 Year Year (c) Beverton-Holt (d) simplex 600 -900 -Recruitment Recruitment 400 -600 -200 -300 -0 -0 -2010 1980 1990 2000 202 1980 1990 2000 2010 202 Year Year (e) HMM (f) PELT 2000 -600 -1500 -Recruitment Recruitment 400 -1000 -200 -500 -0 -0 -2000 1980 2010 1990 2000 2010 1980 1990 202 202 Year Year





(a) mean (b) AR(1) 600 -600 -Recruitment Recruitment 400 -400 -200 -200 0 -0 -1980 1990 2010 202 1980 1990 2010 202 2000 2000 Year Year (c) Beverton-Holt (d) simplex 600 -900 -Recruitment Recruitment 400 -600 -200 -300 -0 -0 -2000 2010 1980 1990 2000 202 1980 1990 2010 202 Year Year (e) HMM (f) PELT 600 -2000 -Recruitment Recruitment 1500 -400 -1000 -200 -500 -0 -0 -2000 1980 2010 1990 2010 1990 2000 1980 202 202

Year

Year

5-step Forecasts

