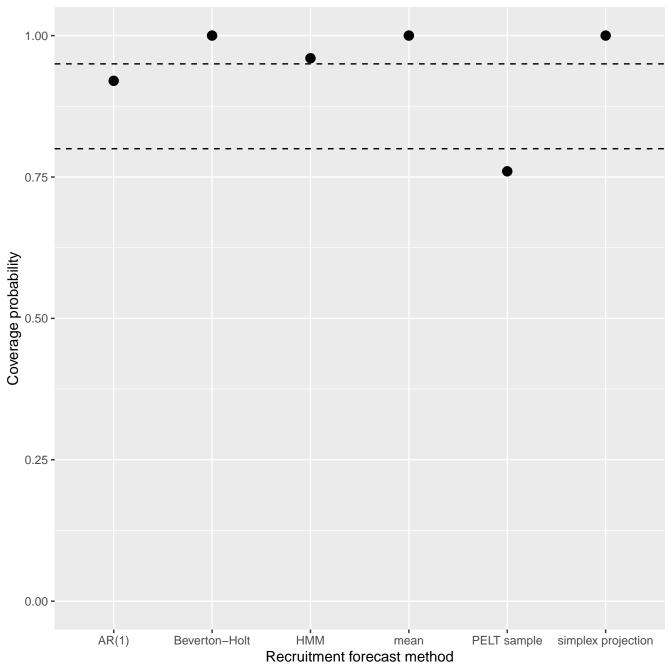
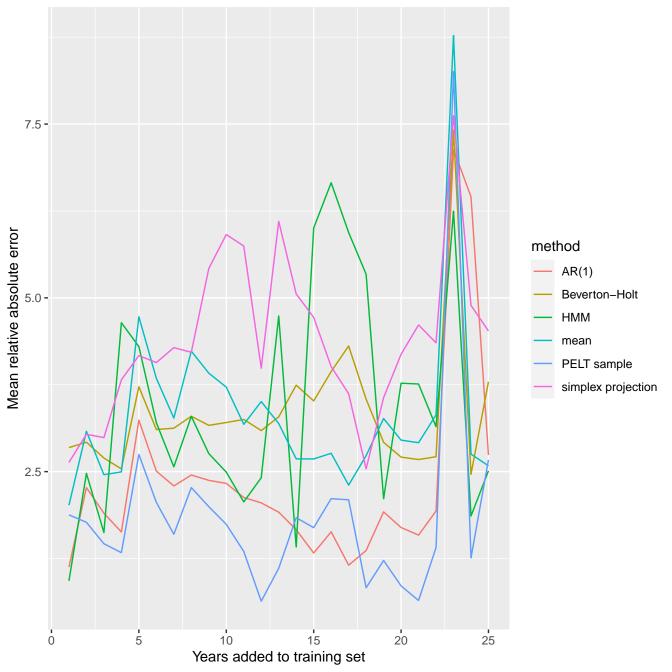
1-step Forecasts (a) Mean (b) AR(1) 1500000 -Recruitment Recruitment 1e+06 **-**1000000 -5e+05 -500000 -0e+00 2020 1990 2010 1990 2010 2020 2000 2000 1980 1980 Year Year (c) Beverton-Holt (d) Simplex projection 3e+06 -1500000 -Recruitment Recruitment 2e+06 -1000000 -1e+06 -500000 -0e+00 0 -2020 1990 2010 1990 2000 2010 2000 2020 1980 1980 Year Year (e) PELT sample (f) HMM 1000000 -1500000 -750000 -Recruitment Recruitment 1000000 -500000 -500000 -250000 -0 -1980 2010 1980 1990 1990 2020 2000 2010 2020 2000 Year Year





750000 -Recruitment Recruitment 1000000 -500000 -500000 -250000 -0 -1990 2020 2010 2020 1990 2010 2000 2000 1980 1980 Year Year (c) Beverton-Holt (d) Simplex projection 3e+06 -1500000 -Recruitment Recruitment 2e+06 -1000000 -1e+06 -500000 -

5-step Forecasts

1000000 -

(b) AR(1)

(a) Mean

1500000 -

