1-step Forecasts (a) Mean (b) AR(1) 6e+07 **-**8e+07 -Recruitment Recruitment 6e+07 -4e+07 -4e+07 -2e+07 -2e+07 0e+00 **-**1 1990 2000 2010 2000 2010 2020 1990 2020 Year Year (c) Beverton-Holt (d) Simplex projection 1.25e+08 -6e+07 -1.00e+08 -Recruitment Recruitment 4e+07 -7.50e+07 -5.00e+07 -2e+07 -2.50e+07 -0.00e+00 -2010 2000 2020 2000 2010 1990 2020 1990 Year Year (e) PELT sample (f) HMM 8e+07 -6e+07 -4e+07 -6e+07 -4e+07 -2e+07 -

0e+00 **-** 1990

2000

2010

Year

2020

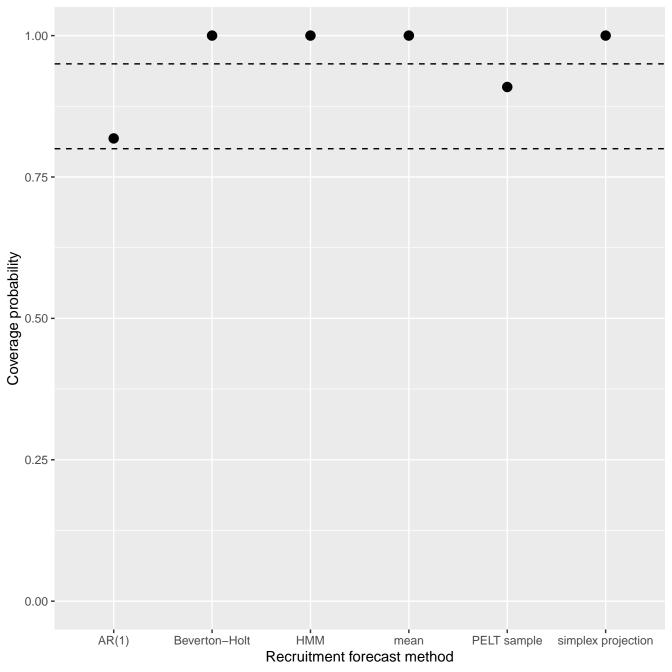
2020

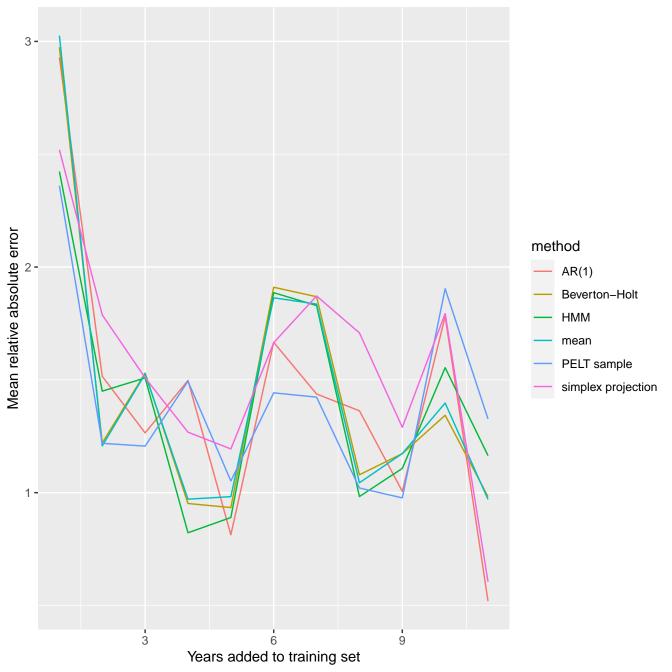
1990

2000

2010

Year





6e+07 -6e+07 -Recruitment 4e+07 -Recruitment 4e+07 -2e+07 -0e+00 **- .** 1990 2000 2010 2010 2020 2000 2020 1990 Year Year (c) Beverton-Holt (d) Simplex projection 6e+07 **-**1e+08 -4e+07 -

5-step Forecasts

(b) AR(1)

(a) Mean

