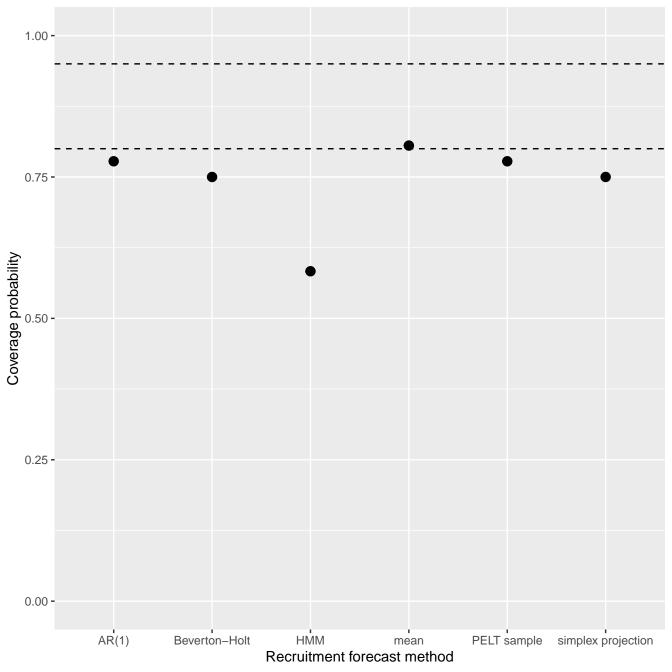
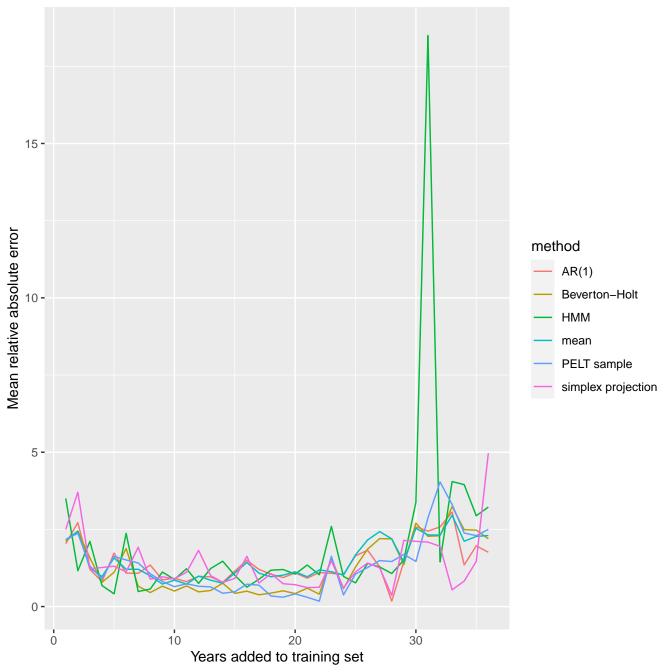
1-step Forecasts (a) Mean (b) AR(1) 3000 -3000 -Recruitment Recruitment 2000 -2000 -1000 -1000 -0 -1980 2000 1980 2000 1960 1960 Year Year (c) Beverton-Holt (d) Simplex projection 6000 -3000 -Recruitment Recruitment 4000 -2000 -2000 -1000 -0 -0 -1980 2000 1980 2000 1960 1960 Year Year (e) HMM (f) PELT sample 4000 -Recruitment 2000 1000 Recruitment 20000 -3000 -2000 -10000 -0 -1980 2000 1980 2000 1960 1960 Year Year





5-step Forecasts (a) Mean (b) AR(1) 2000 -Recruitment Recruitment 2000 -1000 -1000 -0 -0 -1960 2000 1960 1980 1980 2000 Year Year (c) Beverton-Holt (d) Simplex projection 4000 -3000 -3000 -2000 -

