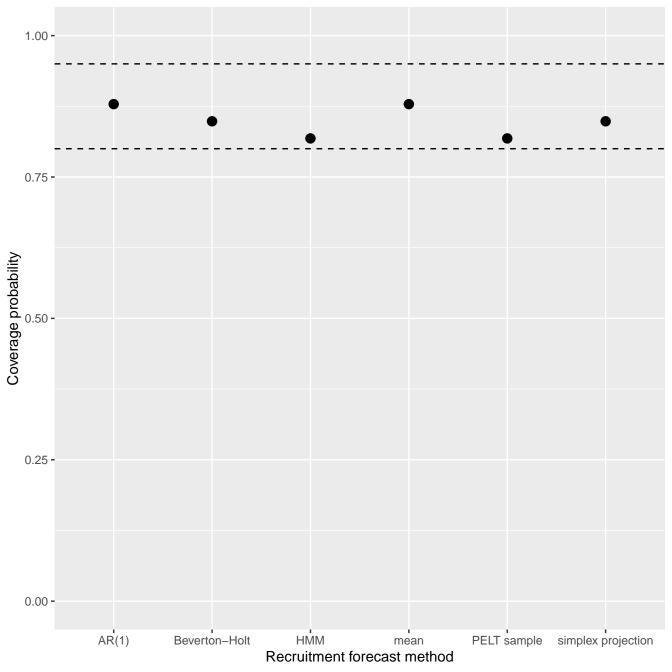
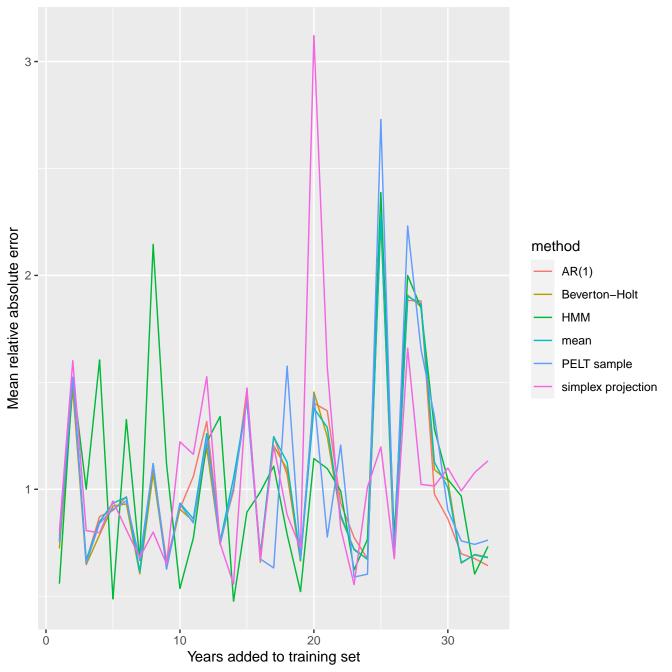
1-step Forecasts (a) Mean (b) AR(1) 4000 -4000 -Recruitment Recruitment 3000 -3000 -2000 2000 1000 -1000 -1970 1970 1980 2000 2010 2000 1980 2010 1990 1990 Year Year (c) Beverton-Holt (d) Simplex projection 6000 -4000 -Recruitment Recruitment 3000 -4000 -2000 1000 -1970 2000 1970 1980 2010 1980 2000 2010 1990 1990 Year Year (e) HMM (f) PELT sample 4000 -4000 -Recruitment Recruitment 3000 -3000 -2000 2000 1000 -1000 -1970 1970 2000 1980 2000 2010 1980 2010 1990 1990 Year Year





5-step Forecasts (a) Mean (b) AR(1) 4000 -3000 -Recruitment Recruitment 3000 -2000 2000 1000 -1000 -1970 2000 1970 1980 2010 1980 2000 2010 1990 1990 Year Year (c) Beverton-Holt (d) Simplex projection 4000 -3000 -Recruitment Recruitment 3000 -2000 1000 -1000 -1970 2000 1970 1980 2010 1990 2000 1980 2010 1990 Year Year (e) HMM (f) PELT sample 5000 -3000 -4000 -3000 -2000

