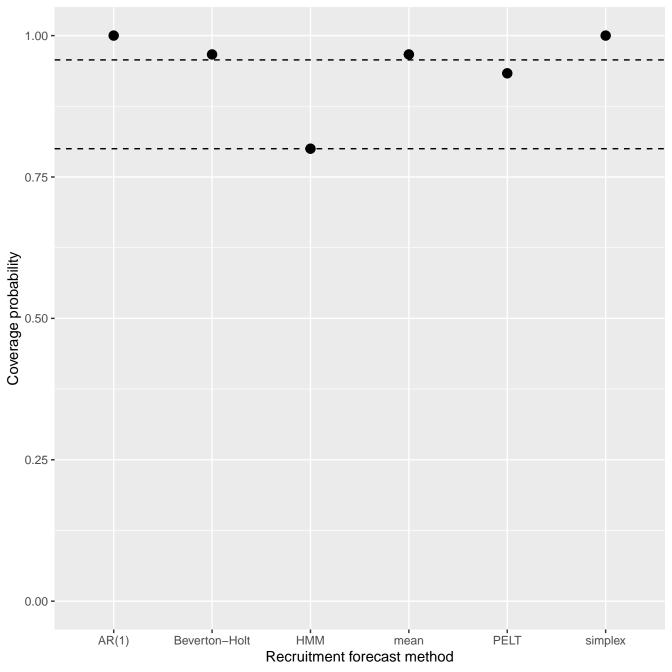
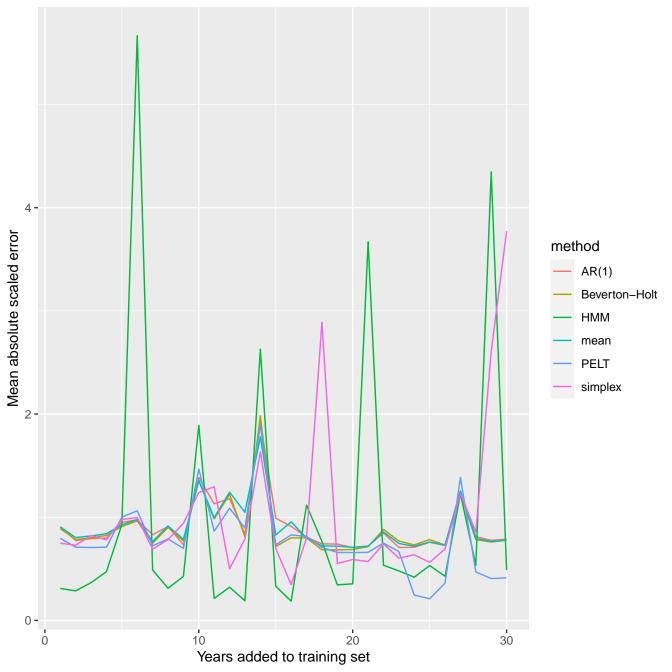
1-step Forecasts (a) mean (b) AR(1) 0.6 0.6 Recruitment ('000s) 0.7 0.7 0.7 0.7 0.7 0.7 0.1 Recruitment ('000s) 0.4 0.2 0.1 1970 1980 1990 2000 2010 2020 1970 1980 1990 2000 2010 2020 Year Year (c) Beverton-Holt (d) simplex 0.6 Recruitment ('000s) 0.7 0.7 0.7 0.7 0.1 Recruitment ('000s) 0.9 0.6 0.3 0.0 1970 1980 1990 2000 2010 1980 1990 2000 2010 2020 2020 1970 Year Year (f) PELT (e) HMM 0.6 Recruitment ('000s) 1.5 0.5 0.5 Recruitment ('000s) 0.7 0.7 0.7 0.1 0.2 0.0 1970 1980 1990 2000 2010 2020 1970 1980 1990 2000 2010 2020 Year Year





5-step Forecasts (a) mean (b) AR(1) 0.6 0.6 Recruitment ('000s) 0.7 0.7 0.7 0.7 0.7 0.7 0.1 Recruitment ('000s) 0.4 0.3 0.2 0.1 1970 1980 1990 2000 2010 2020 1970 1980 1990 2000 2010 2020 Year Year (c) Beverton-Holt (d) simplex 0.6 Recruitment ('000s) 0.7 0.7 0.7 0.7 0.7 0.1 Recruitment ('000s) 0.5 0.9 0.6 0.3 0.2 0.3 0.0 1970 1980 1990 2000 2010 1980 1990 2000 2010 2020 1970 2020 Year Year (e) HMM (f) PELT 0.6 Recruitment ('000s) Recruitment ('000s) 0.7 0.7 0.7 0.7 0.1 2.0 1.5 1.0 0.5 0.0 1970 1980 1990 2000 2010 2020 1970 1980 1990 2000 2010 2020 Year Year

