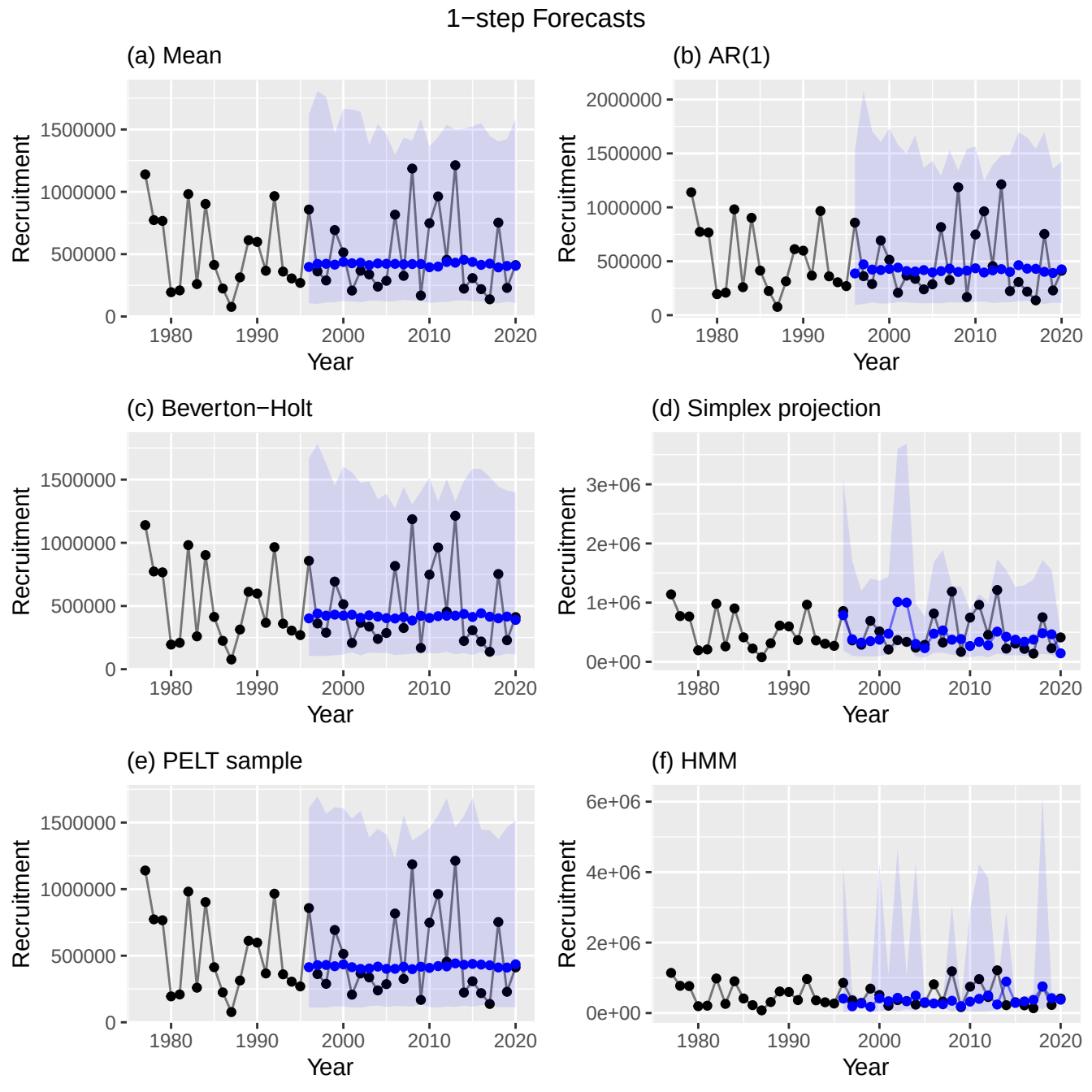
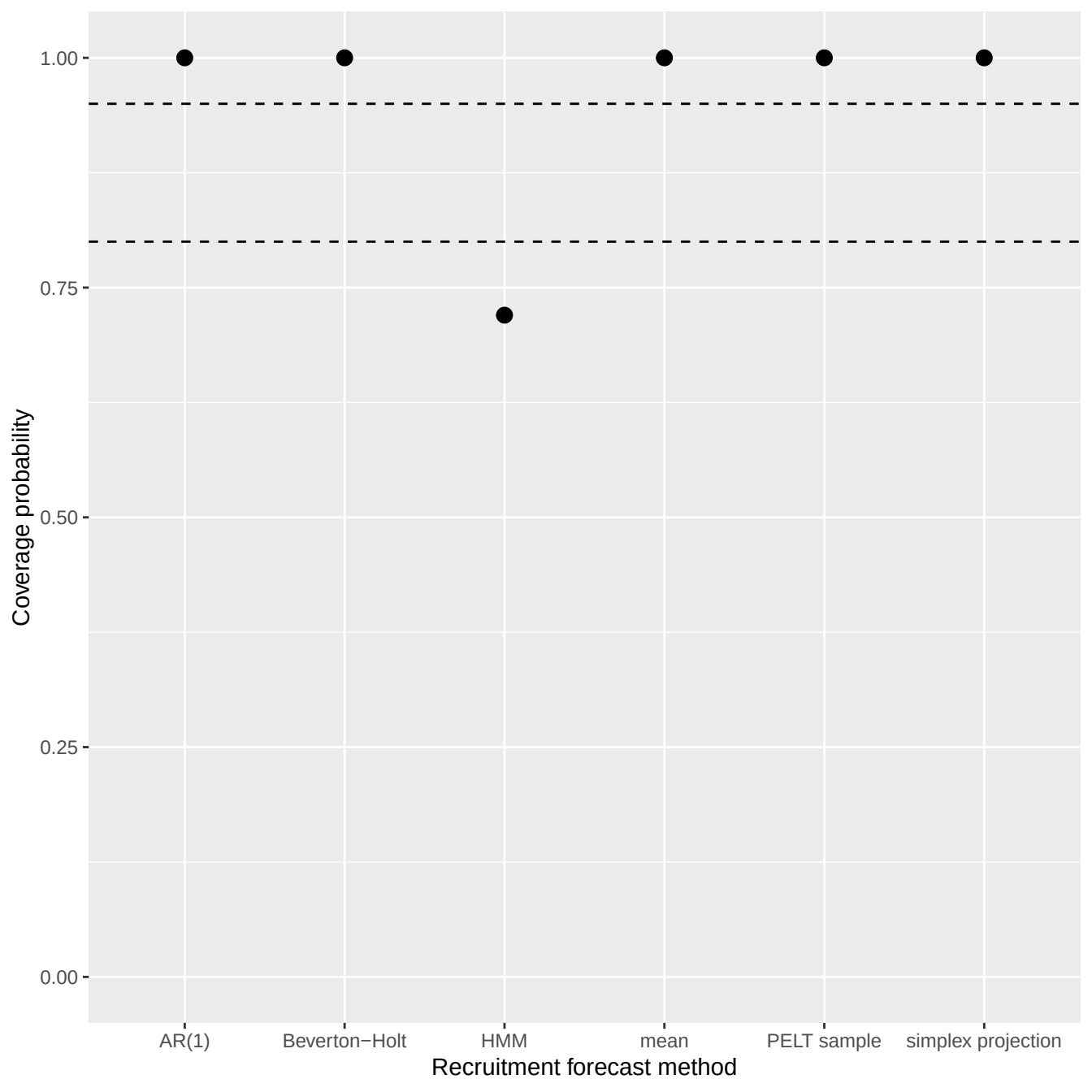
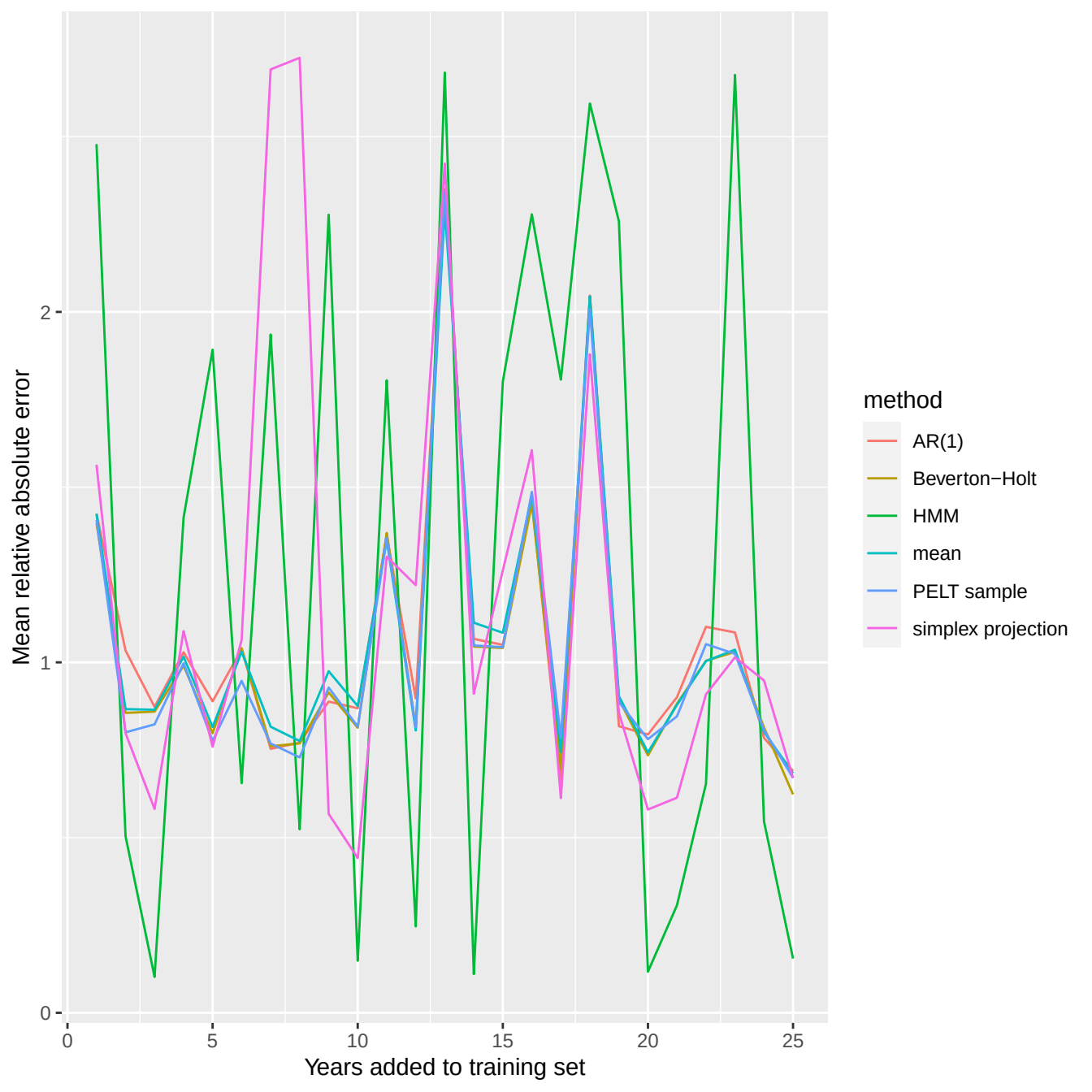
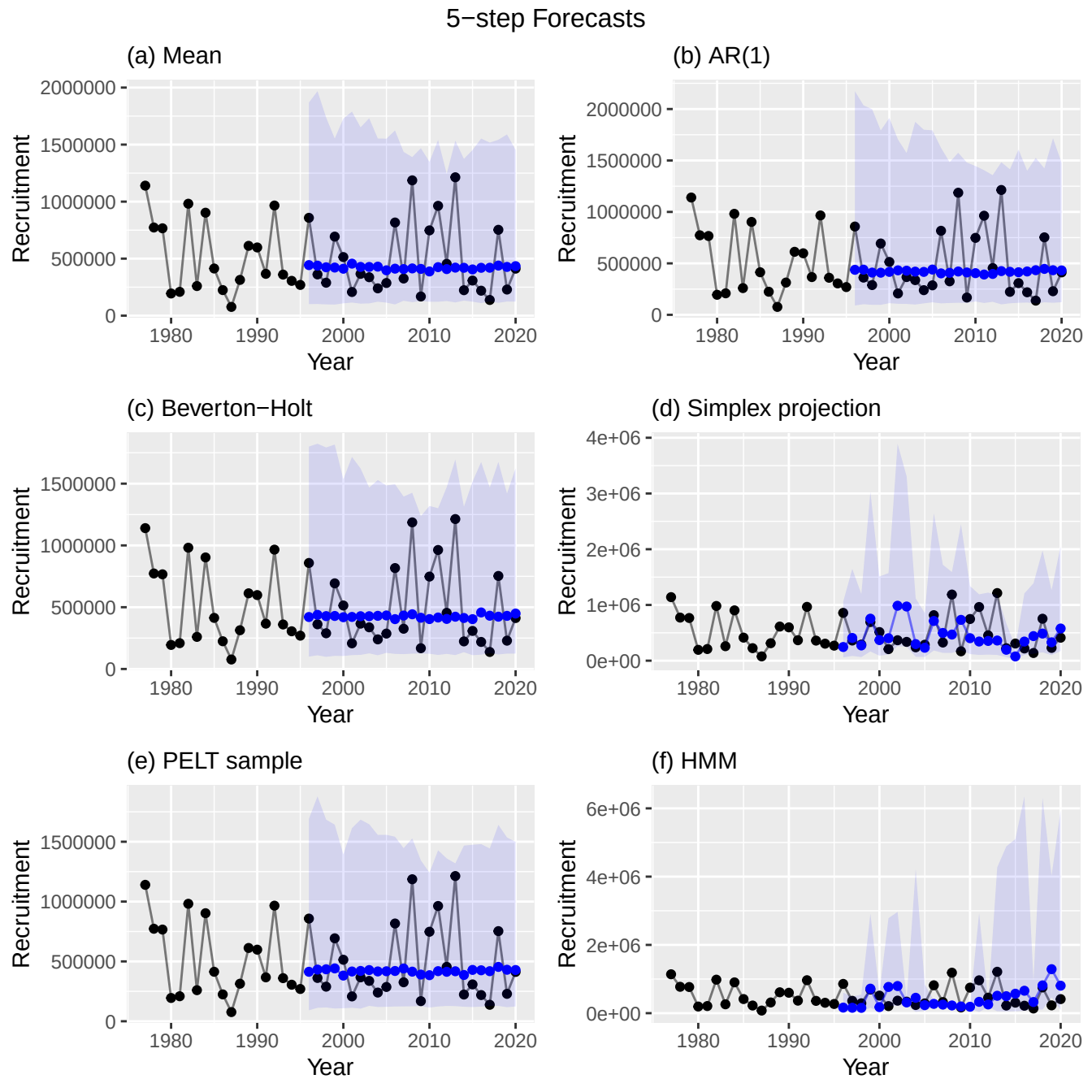
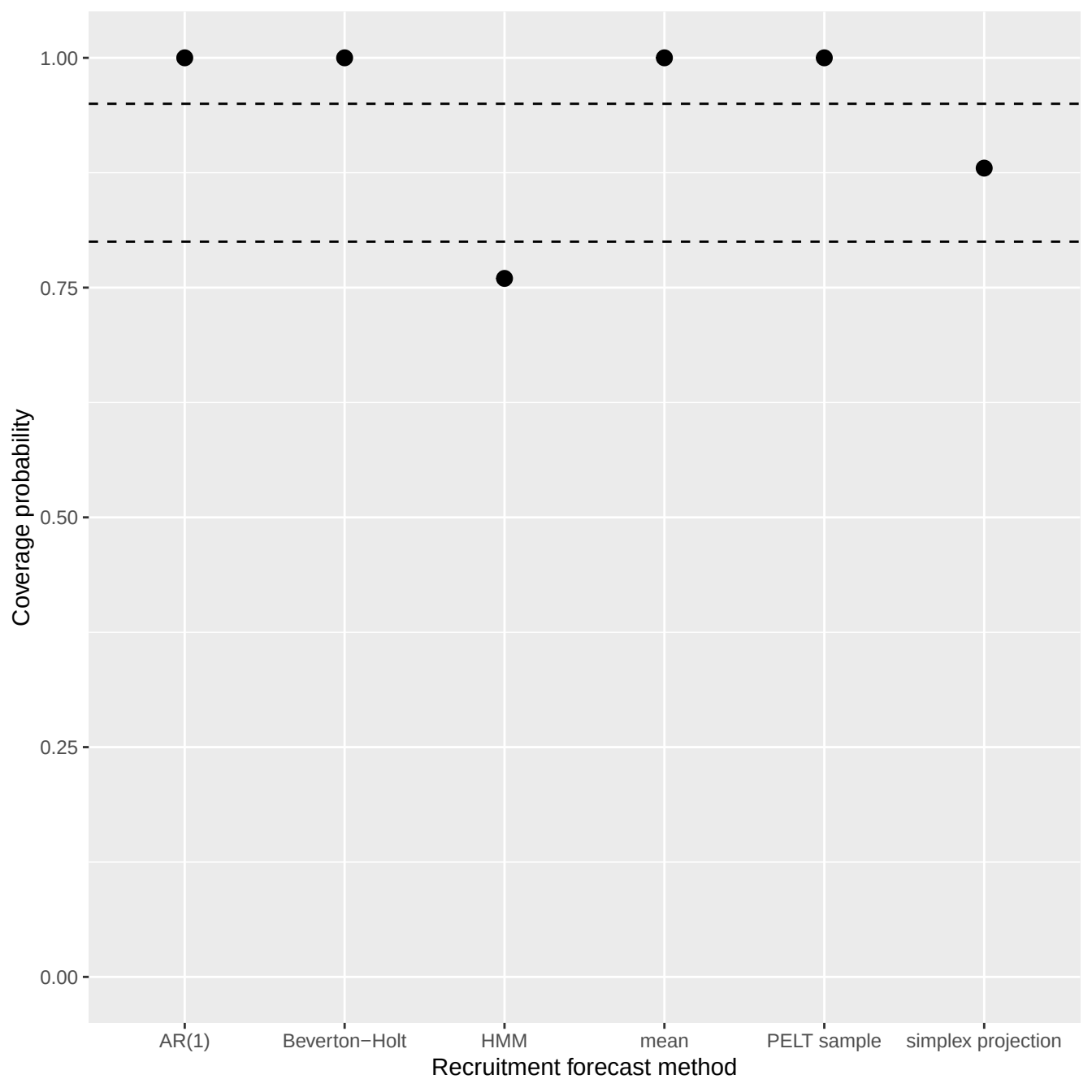
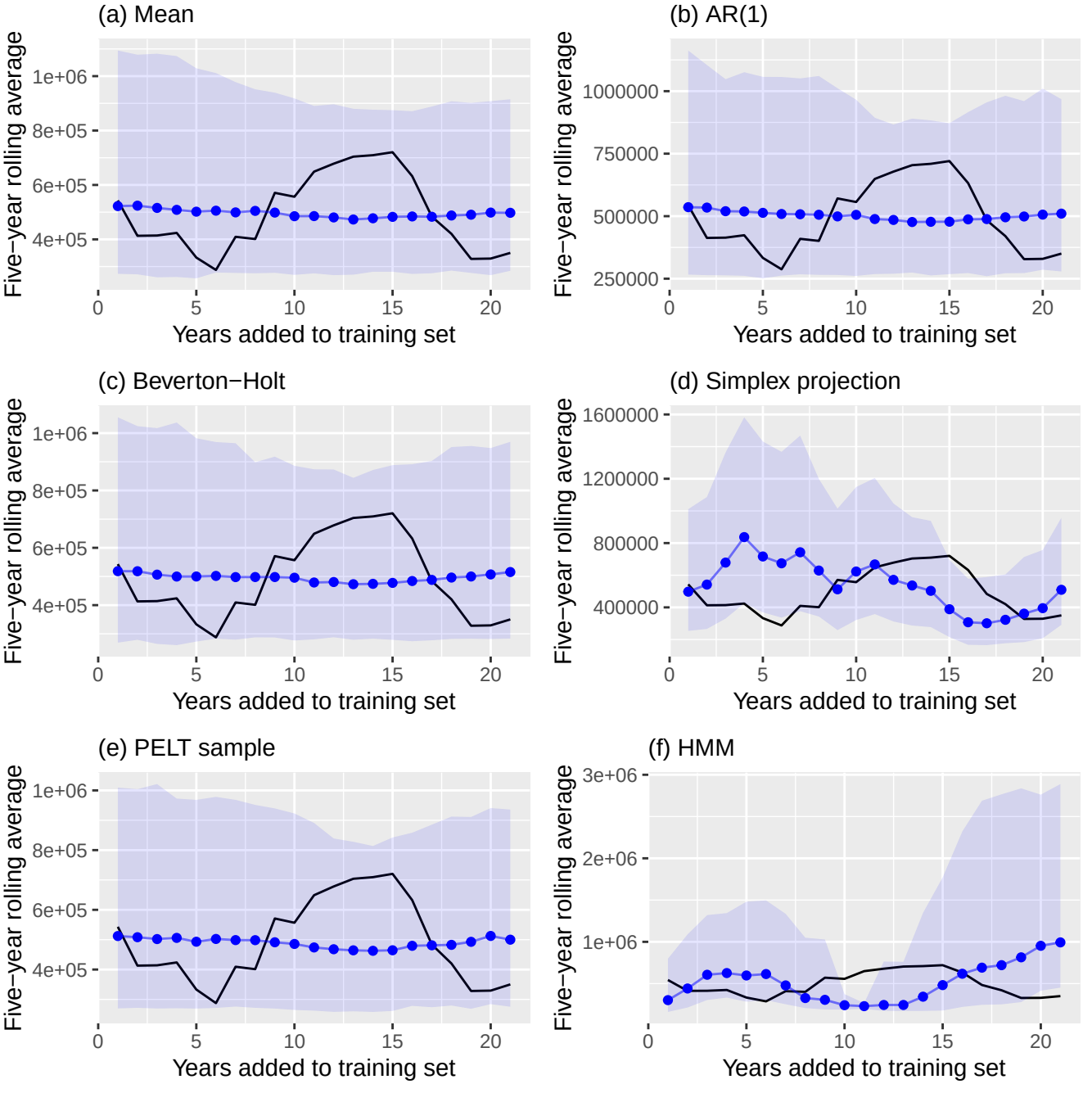

1−step Forecasts
(a) Mean
(b) AR(1)
(c) Beverton−Holt
(d) Simplex projection
(e) PELT sample
(f) HMM
Recruitment
Year
0
500000
1000000
1500000
2000000
0e+00
1e+06
2e+06
3e+06
4e+06
6e+06
1980
1990
2000
2010
2020


1.00
0.75
0.50
0.25
0.00
Coverage probability
AR(1)
Beverton−Holt
HMM
mean
PELT sample
simplex projection
Recruitment forecast method


Mean relative absolute error
0
1
2
0
5
10
15
20
25
Years added to training set
method
AR(1)
Beverton−Holt
HMM
mean
PELT sample
simplex projection


5−step Forecasts
(a) Mean
(b) AR(1)
(c) Beverton−Holt
(d) Simplex projection
(e) PELT sample
(f) HMM
Recruitment
Year
0
500000
1000000
1500000
2000000
0e+00
1e+06
2e+06
3e+06
4e+06
6e+06
1980
1990
2000
2010
2020


1.00
0.75
0.50
0.25
0.00
Coverage probability
AR(1)
Beverton−Holt
HMM
mean
PELT sample
simplex projection
Recruitment forecast method


(a) Mean
(b) AR(1)
(c) Beverton−Holt
(d) Simplex projection
(e) PELT sample
(f) HMM
Five−year rolling average
Years added to training set
1e+06
8e+05
6e+05
4e+05
1000000
750000
500000
250000
1600000
1200000
800000
400000
3e+06
2e+06
0
5
10
15
20