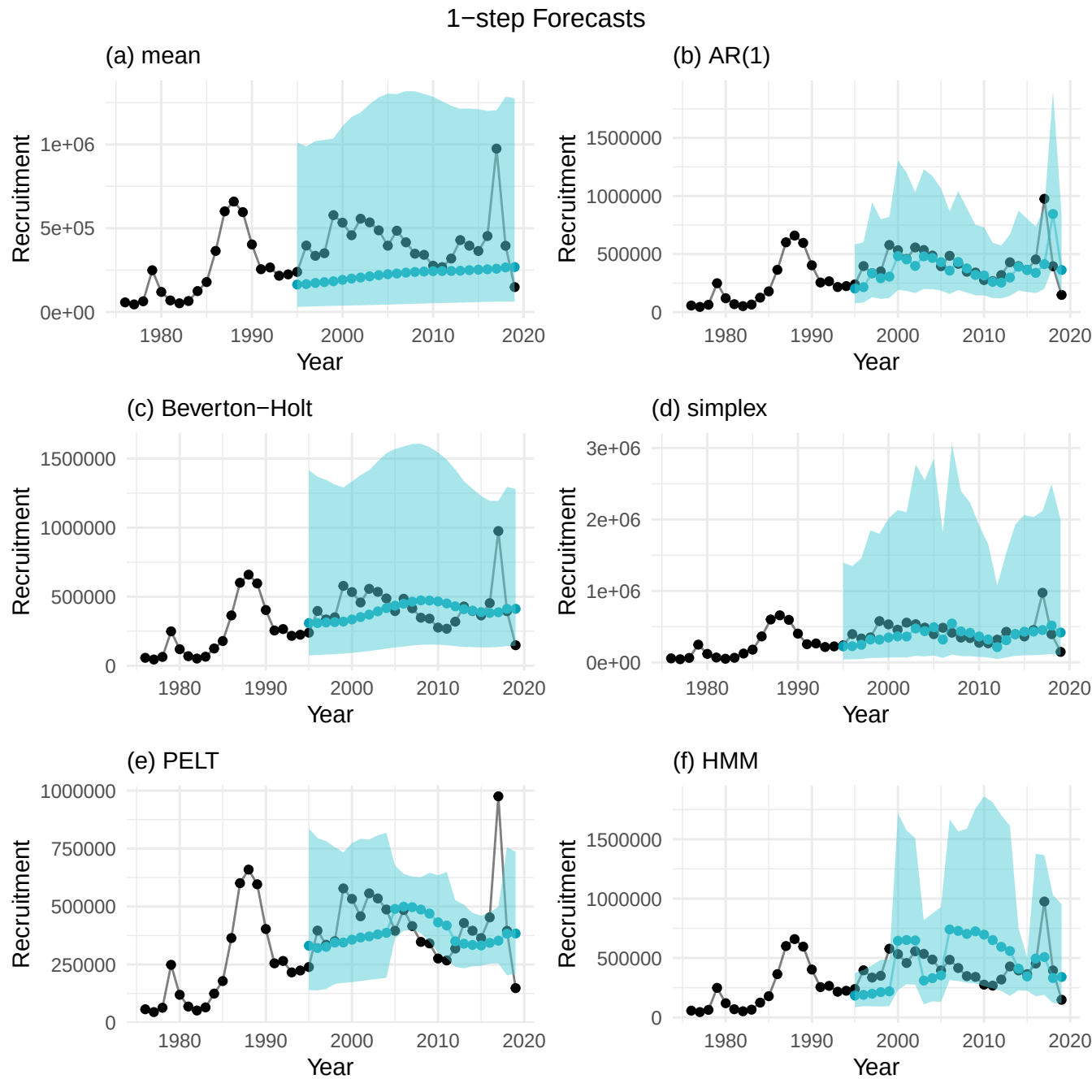
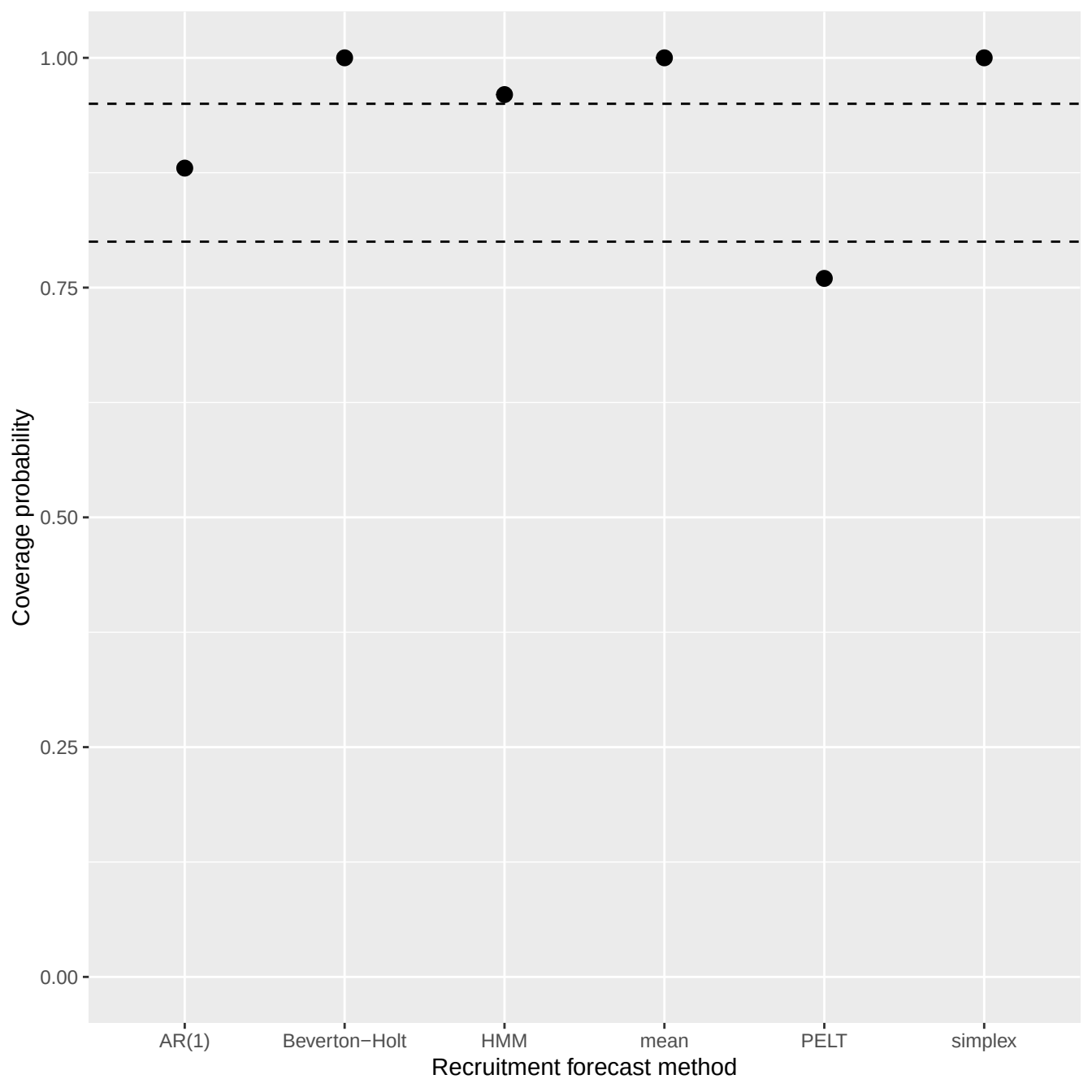
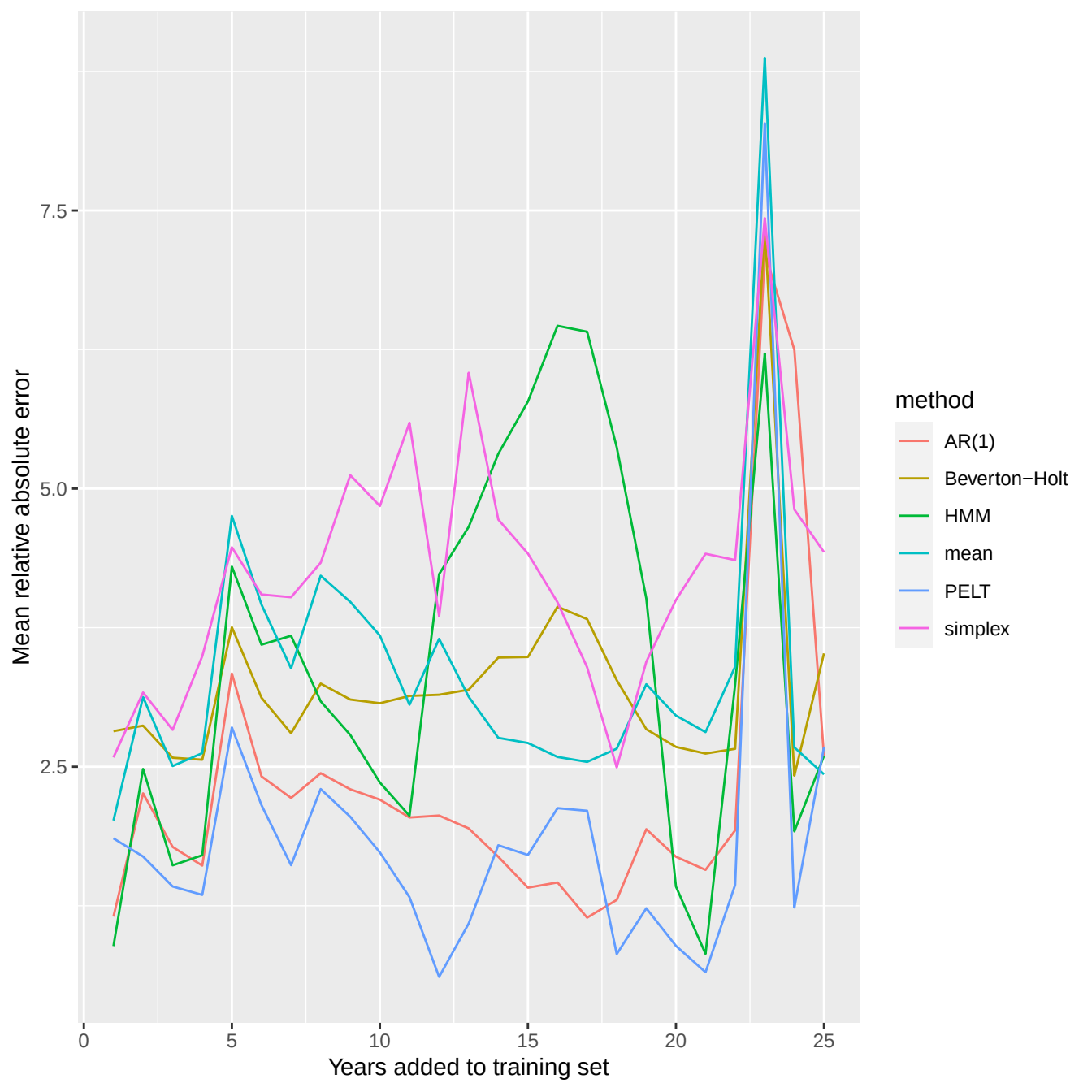
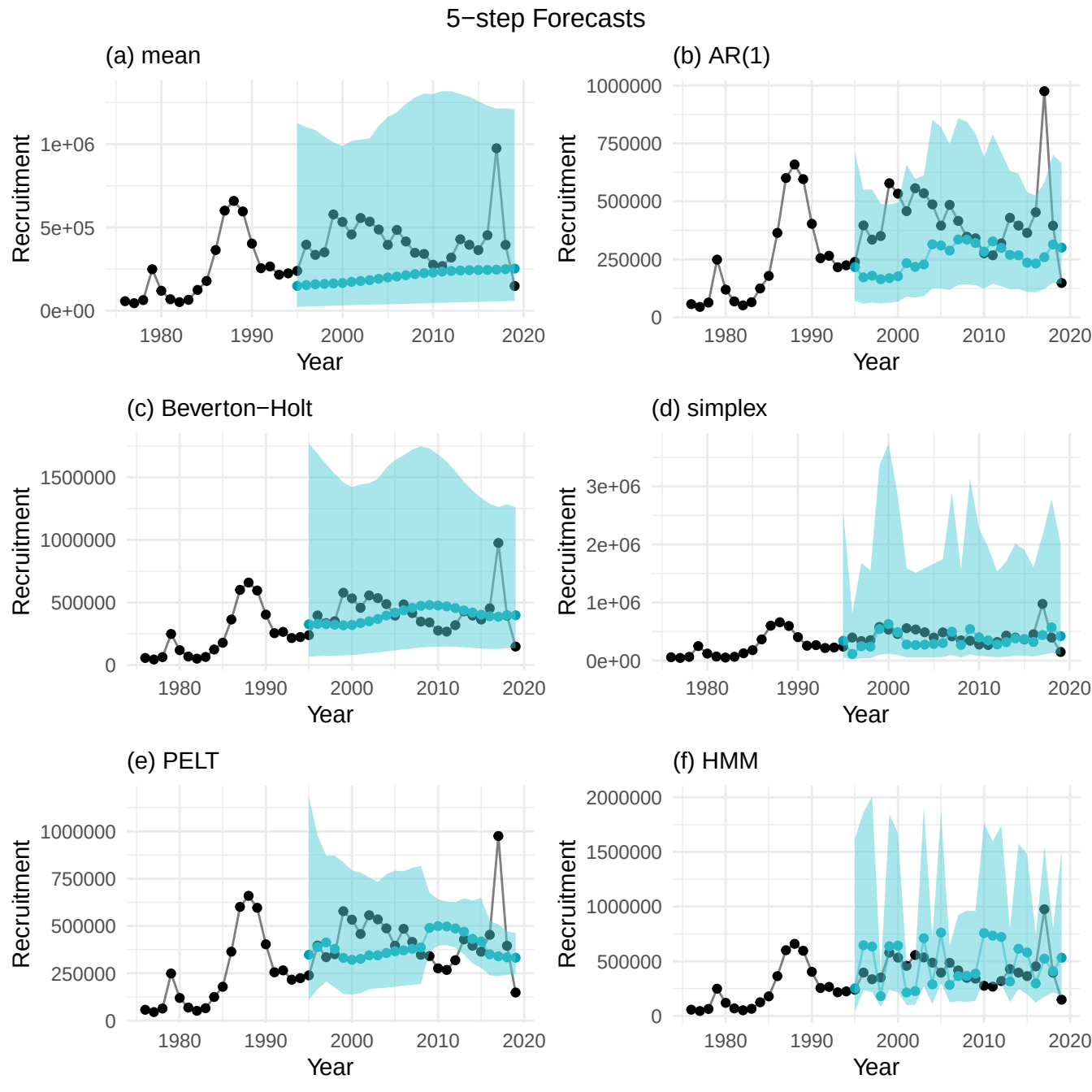
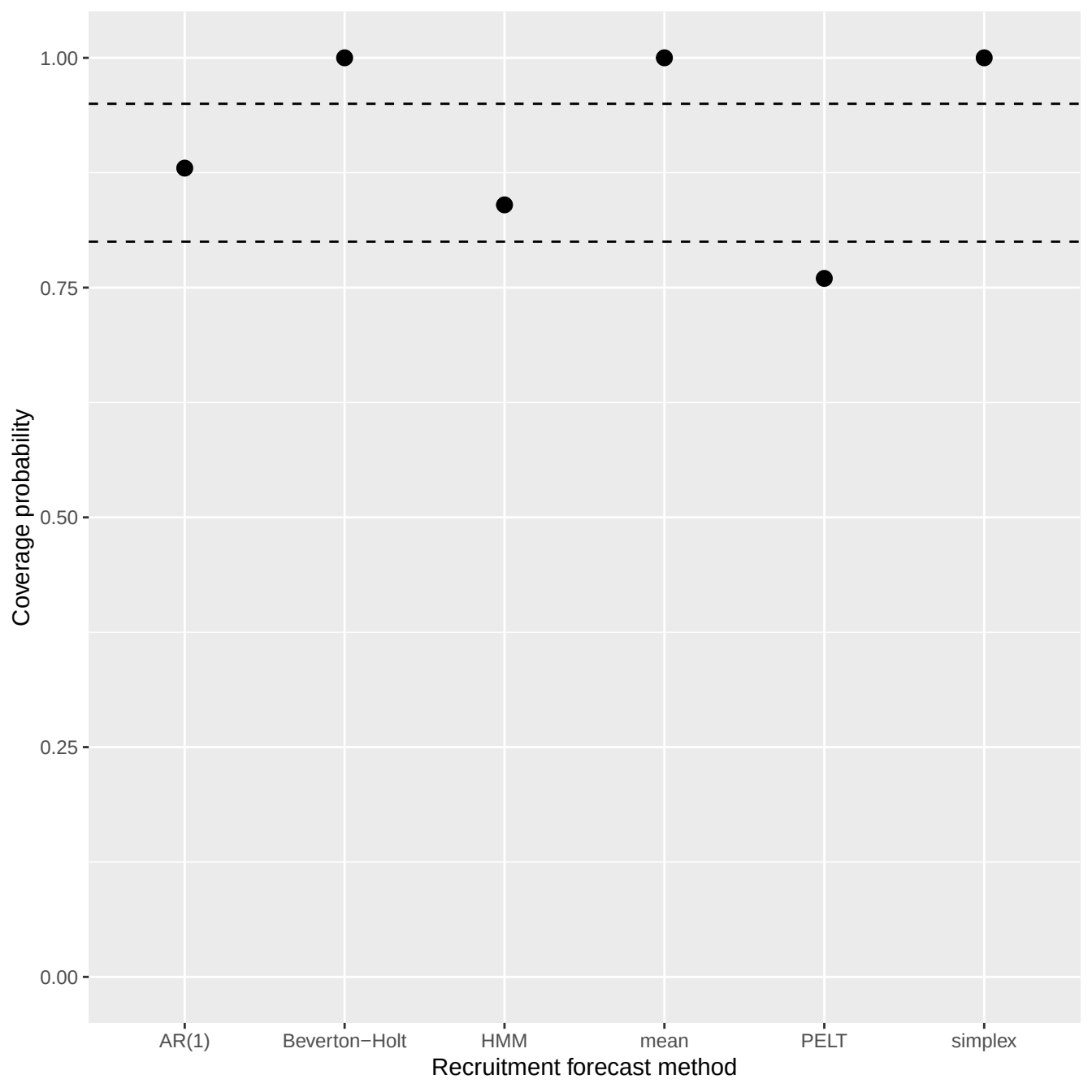
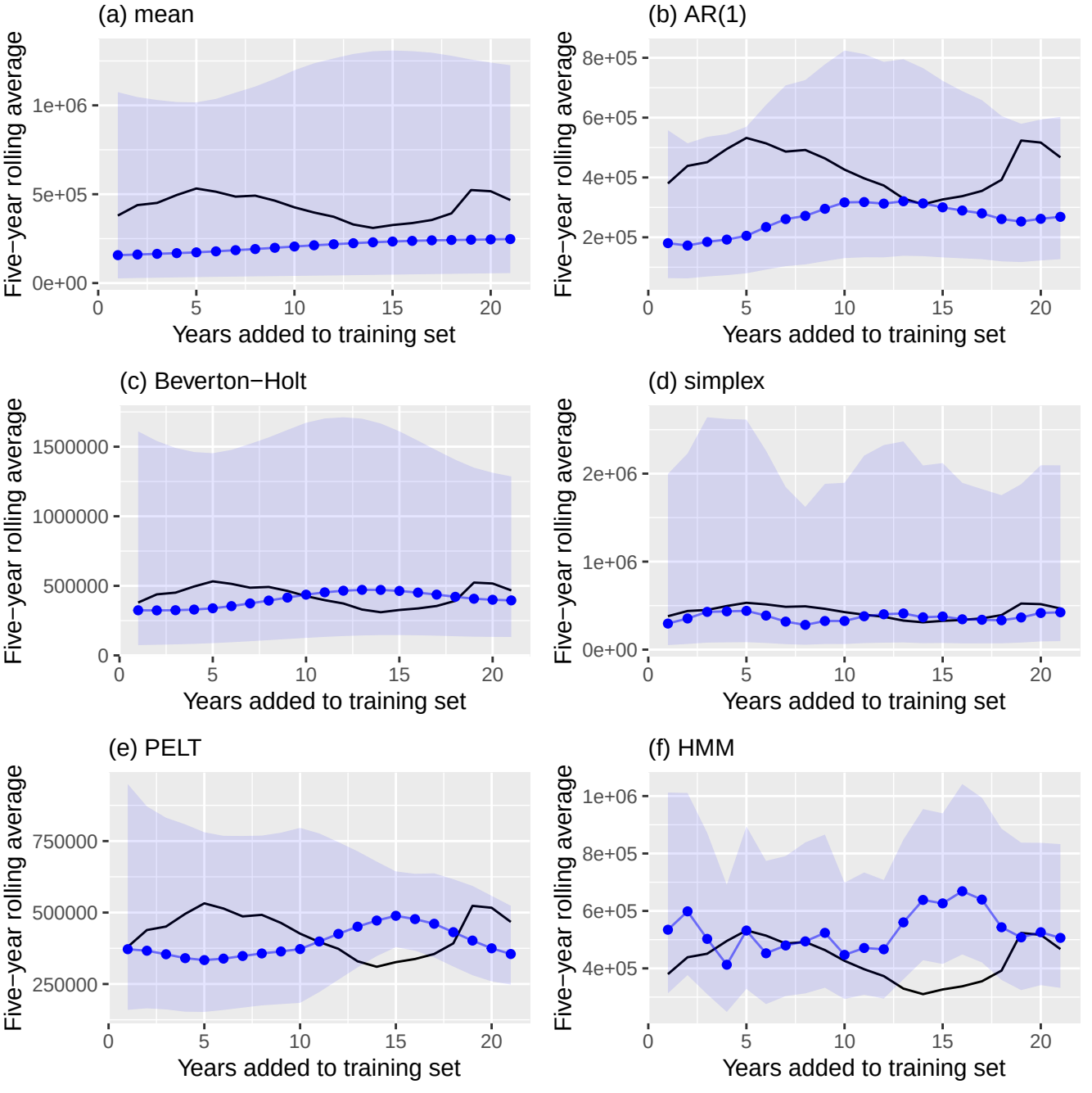

1−step Forecasts
(a) mean
(b) AR(1)
(c) Beverton−Holt
(d) simplex
(e) PELT
(f) HMM
Recruitment
Year
0e+00
5e+05
1e+06
0
500000
1000000
1500000
2e+06
3e+06
250000
750000
1980
1990
2000
2010
2020


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


Mean relative absolute error
7.5
5.0
2.5
0
5
10
15
20
25
Years added to training set
method
AR(1)
Beverton−Holt
HMM
mean
PELT
simplex


5−step Forecasts
(a) mean
(b) AR(1)
(c) Beverton−Holt
(d) simplex
(e) PELT
(f) HMM
Recruitment
Year
0e+00
5e+05
1e+06
0
250000
500000
750000
1000000
1500000
2000000
2e+06
3e+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
simplex
Recruitment forecast method


(a) mean
(b) AR(1)
(c) Beverton−Holt
(d) simplex
(e) PELT
(f) HMM
Five−year rolling average
Years added to training set
0e+00
5e+05
1e+06
2e+05
4e+05
6e+05
8e+05
0
500000
1000000
1500000
250000
750000
2e+06
4e+05
0
5
10
15
20