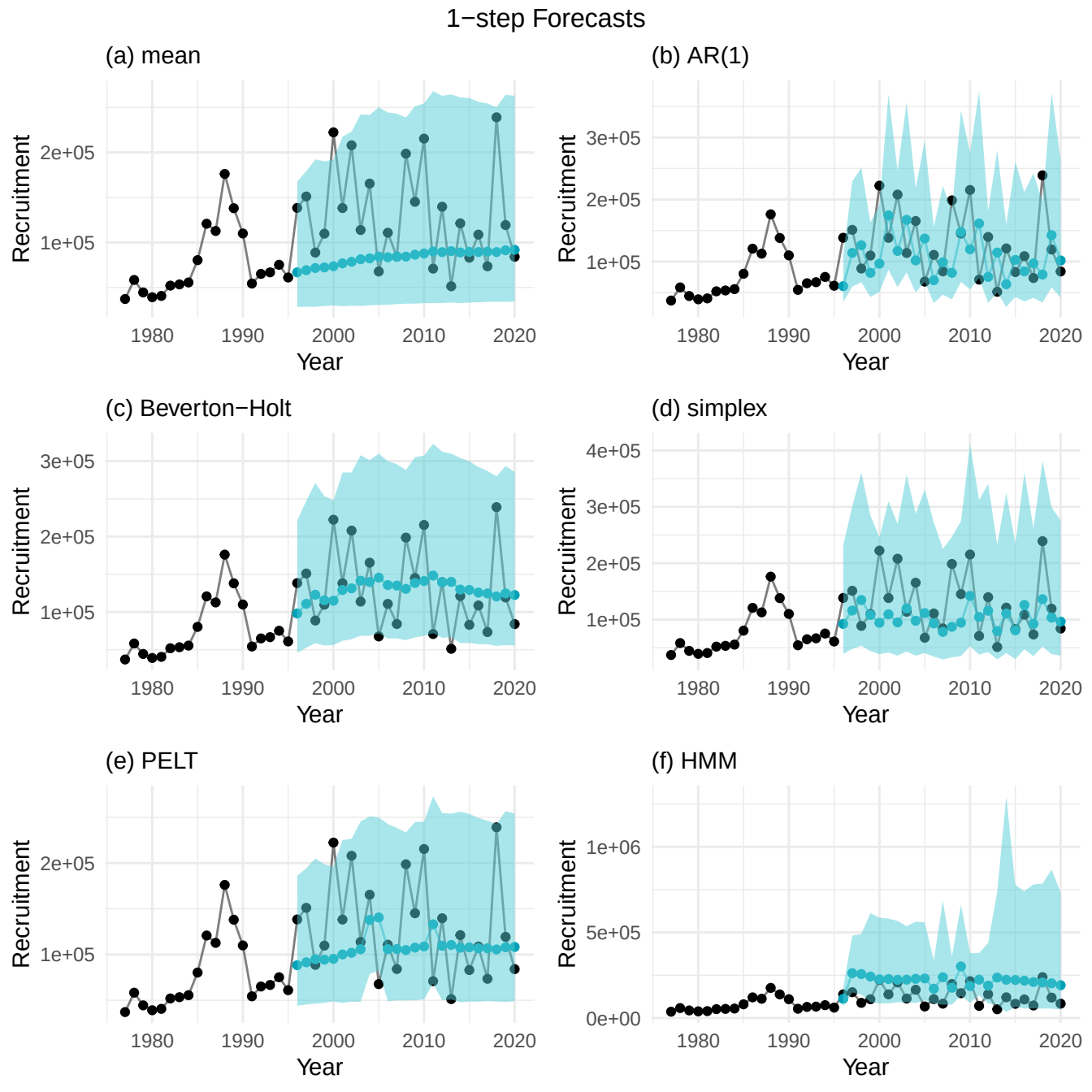
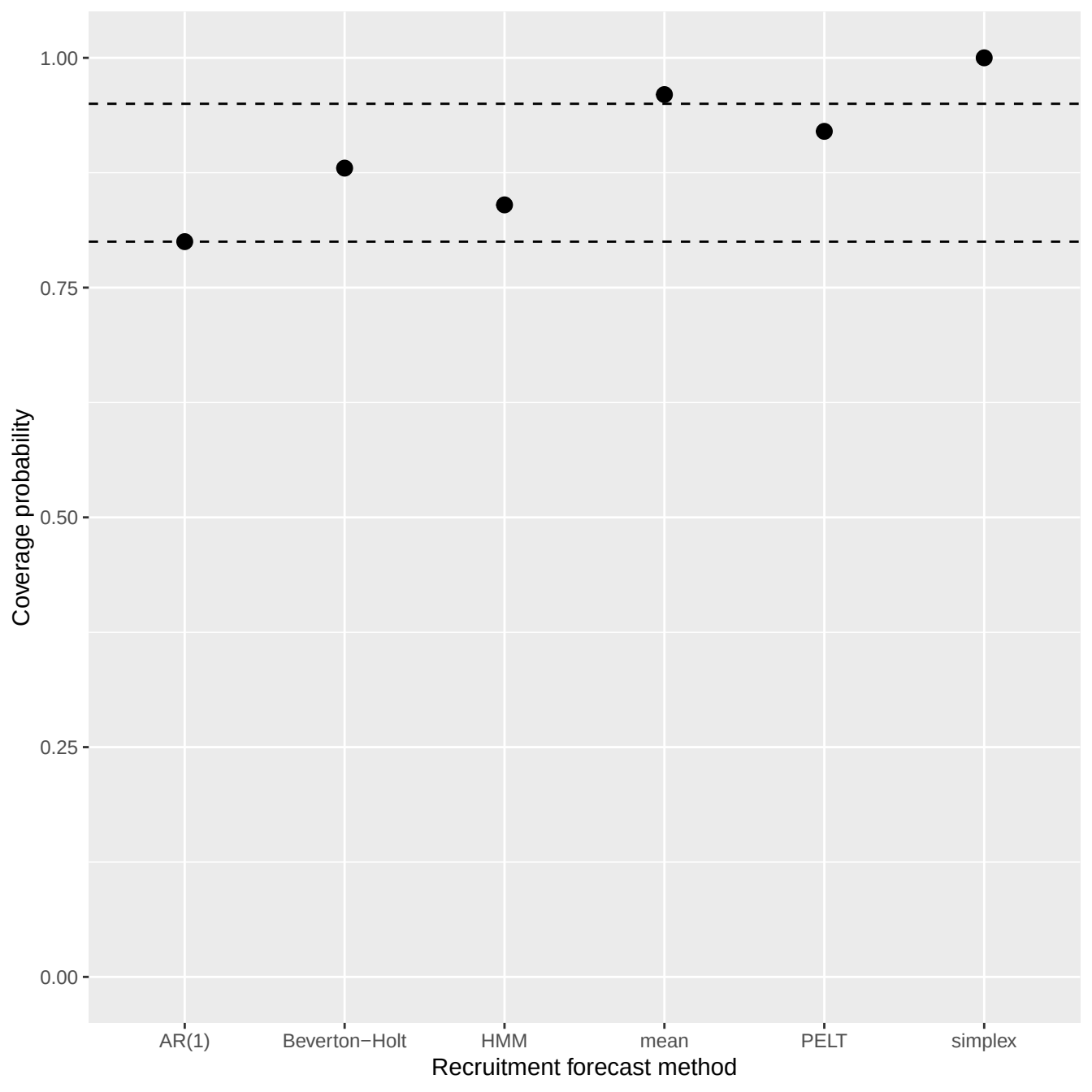
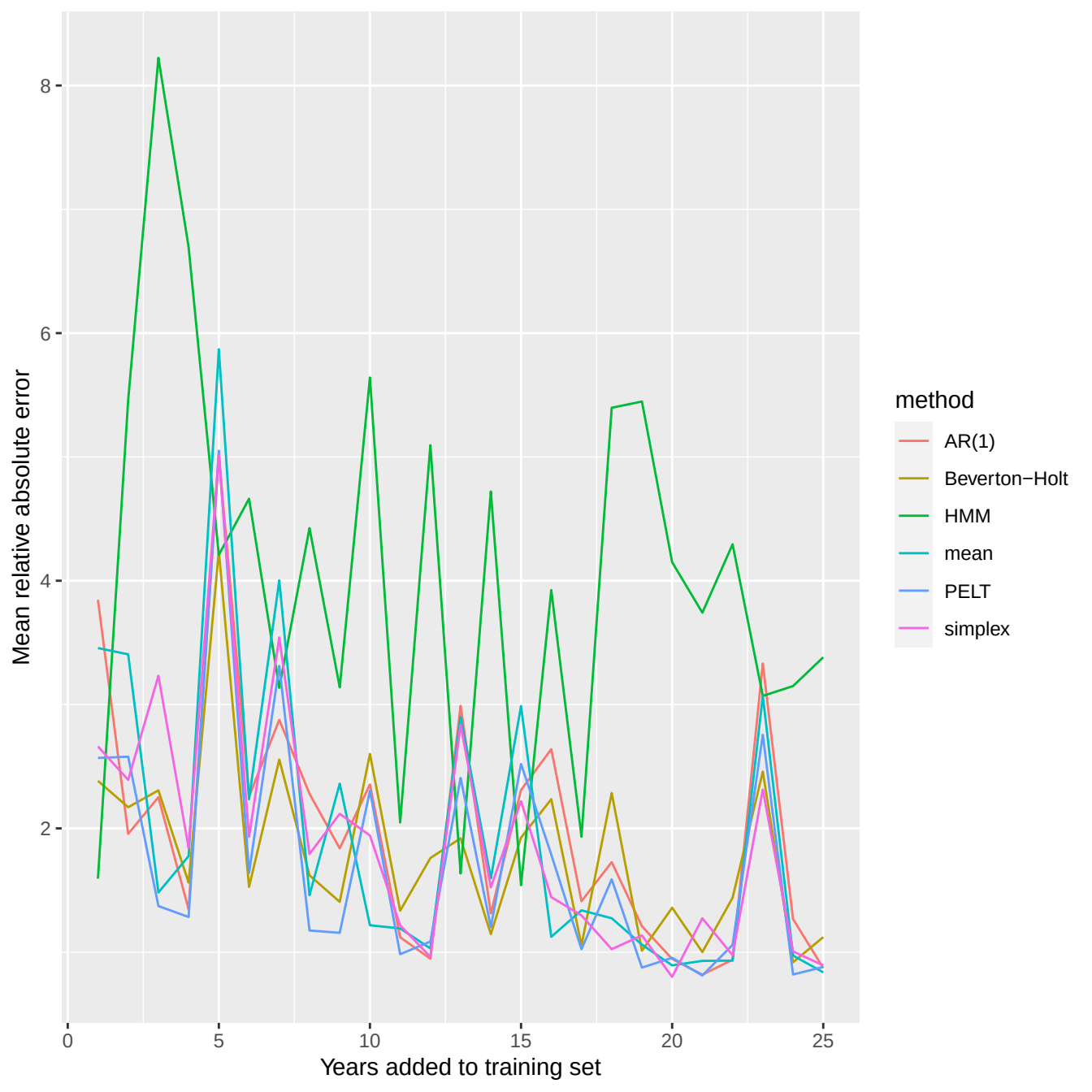
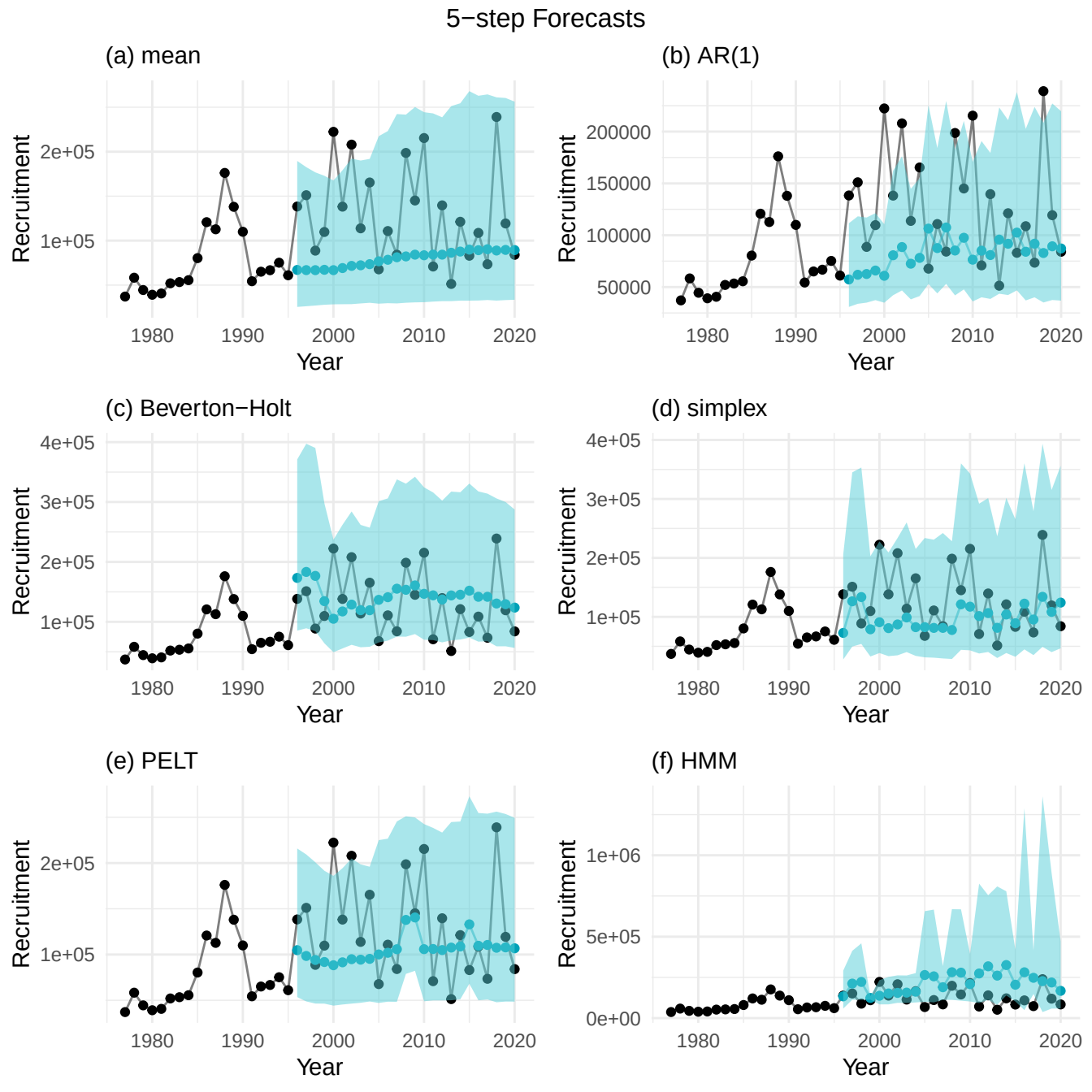
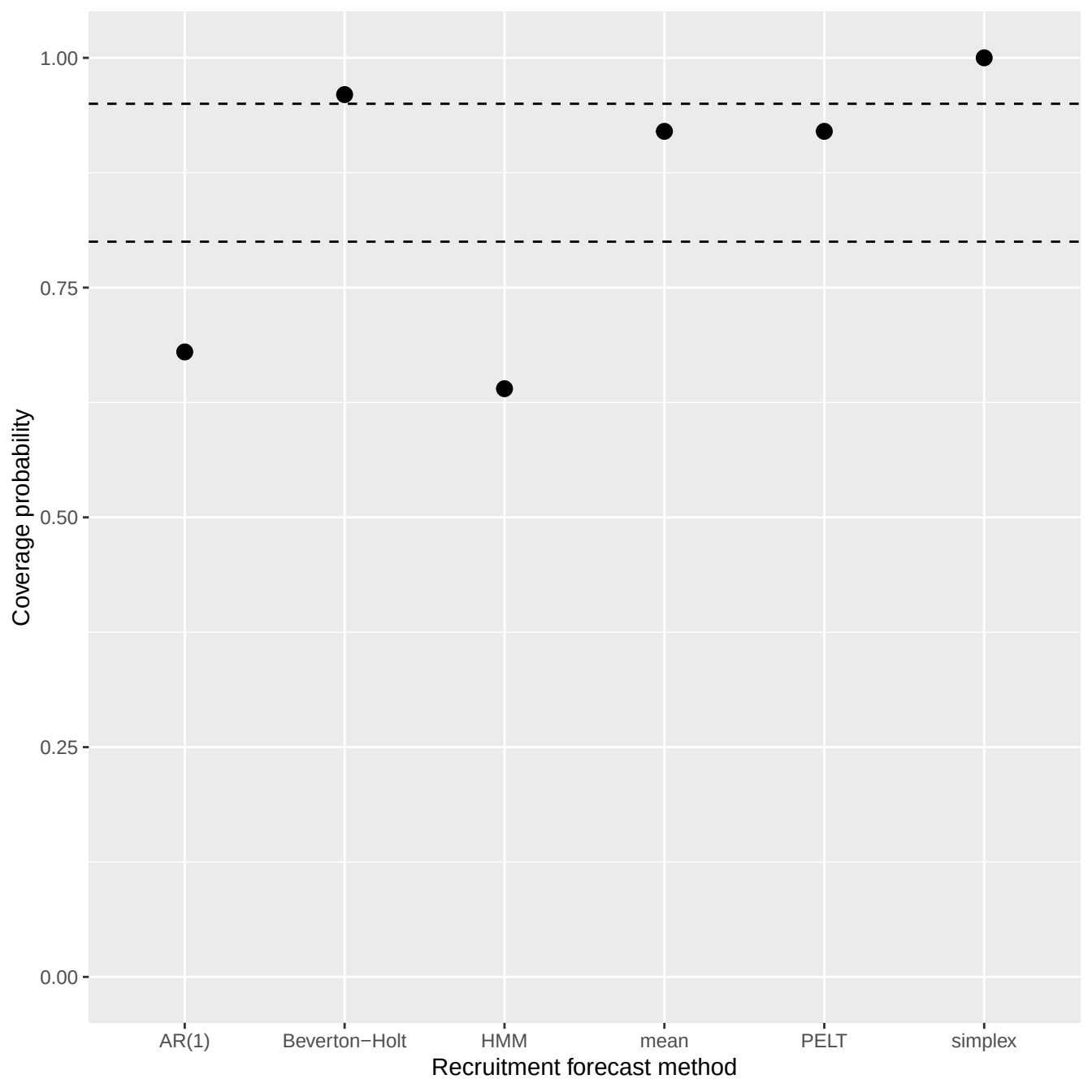
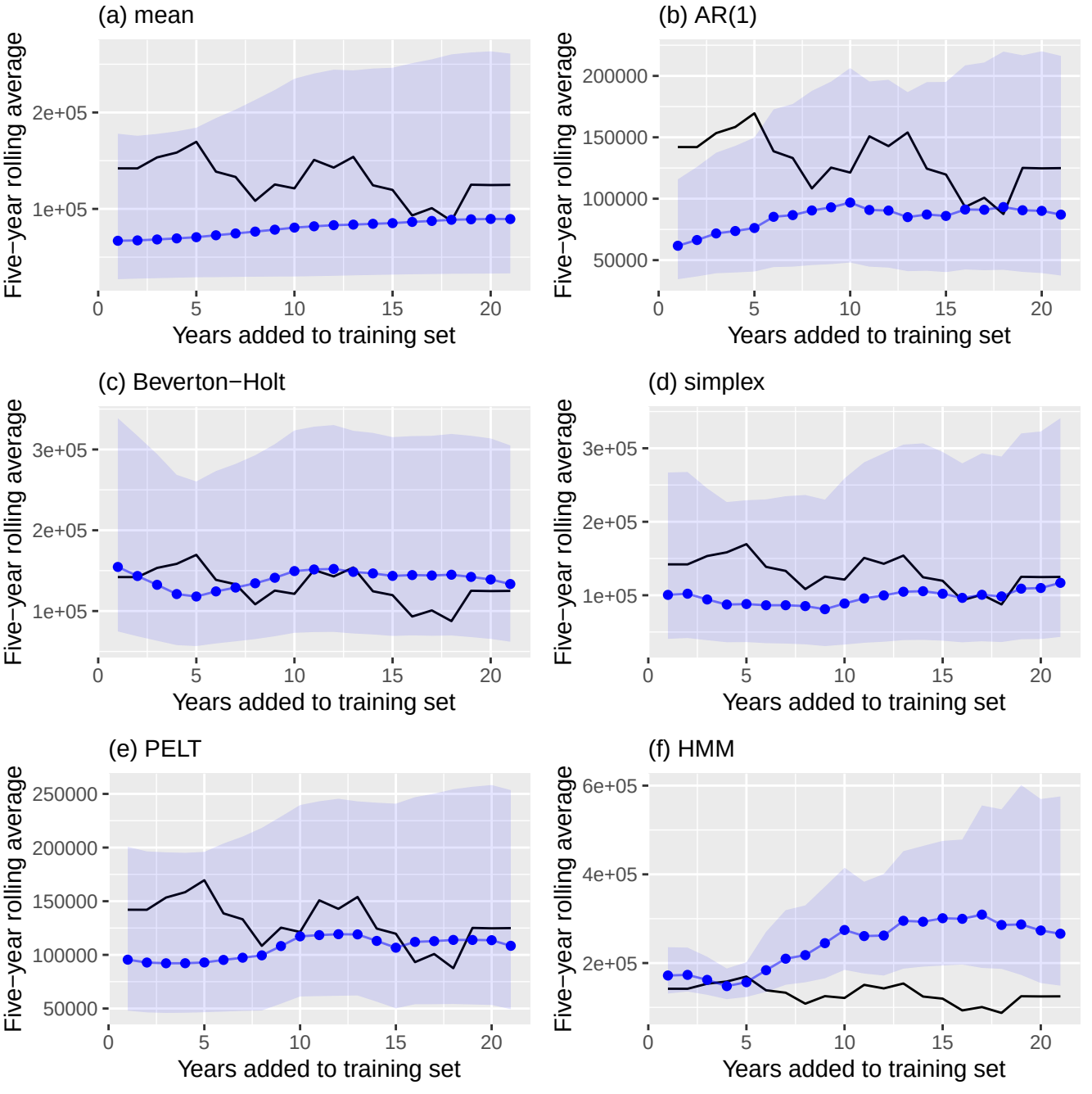

1−step Forecasts
(a) mean
(b) AR(1)
(c) Beverton−Holt
(d) simplex
(e) PELT
(f) HMM
Recruitment
Year
1980
1990
2000
2010
2020
0e+00
1e+05
2e+05
3e+05
4e+05
5e+05
1e+06


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
8
6
4
2
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
1980
1990
2000
2010
2020
50000
100000
150000
200000
1e+05
2e+05
3e+05
4e+05
0e+00
5e+05
1e+06


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
0
5
10
15
20
1e+05
2e+05
3e+05
50000
100000
150000
200000
250000
4e+05
6e+05