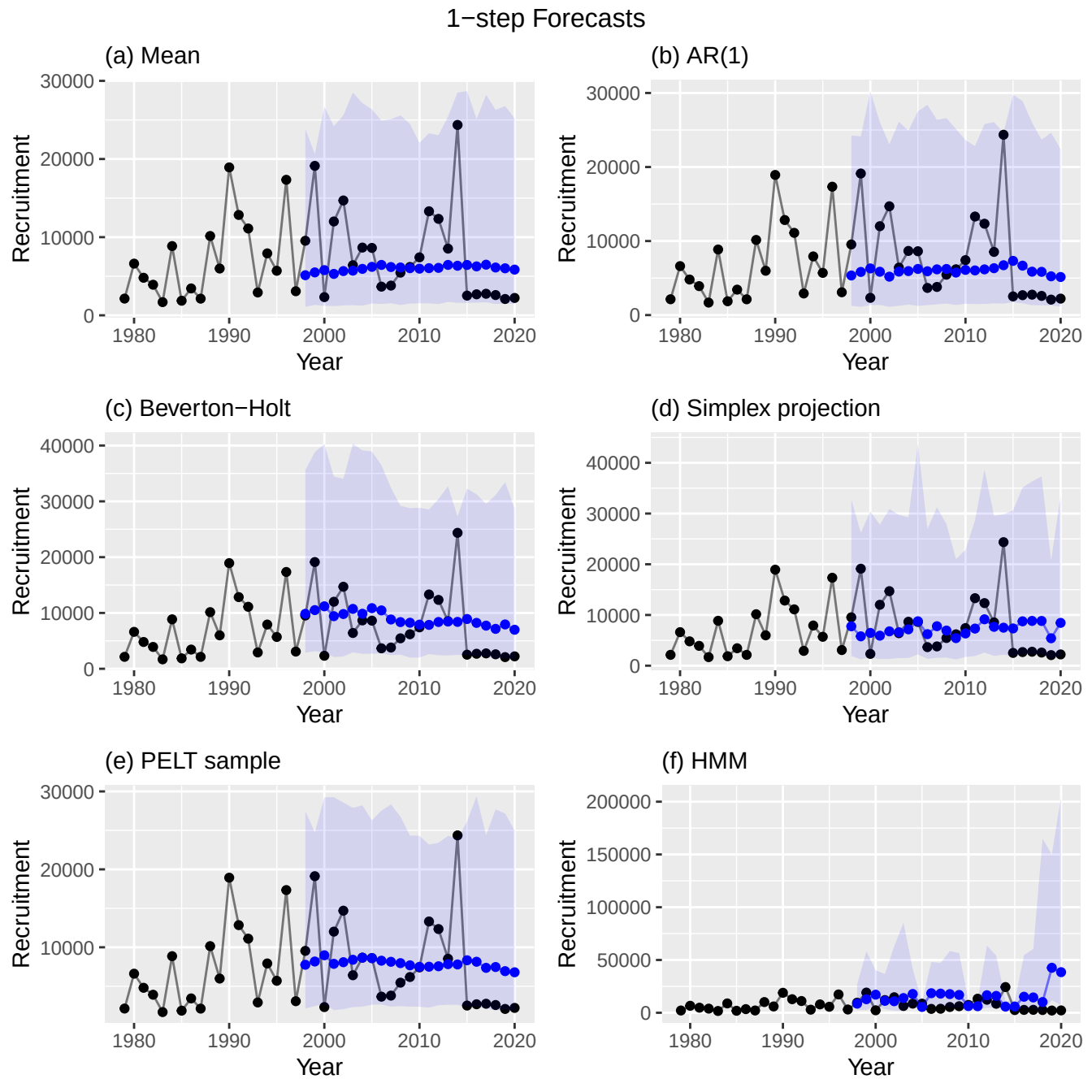
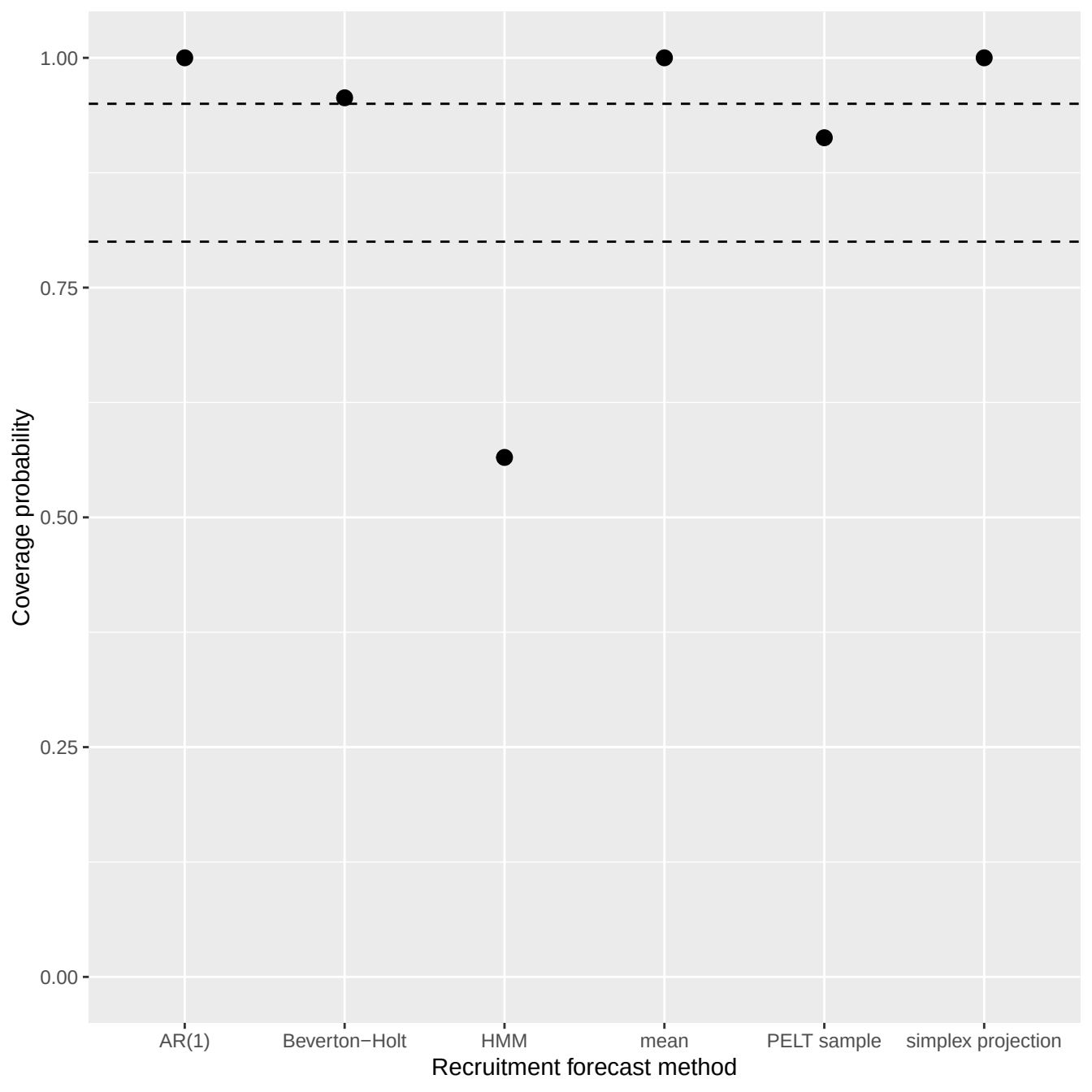
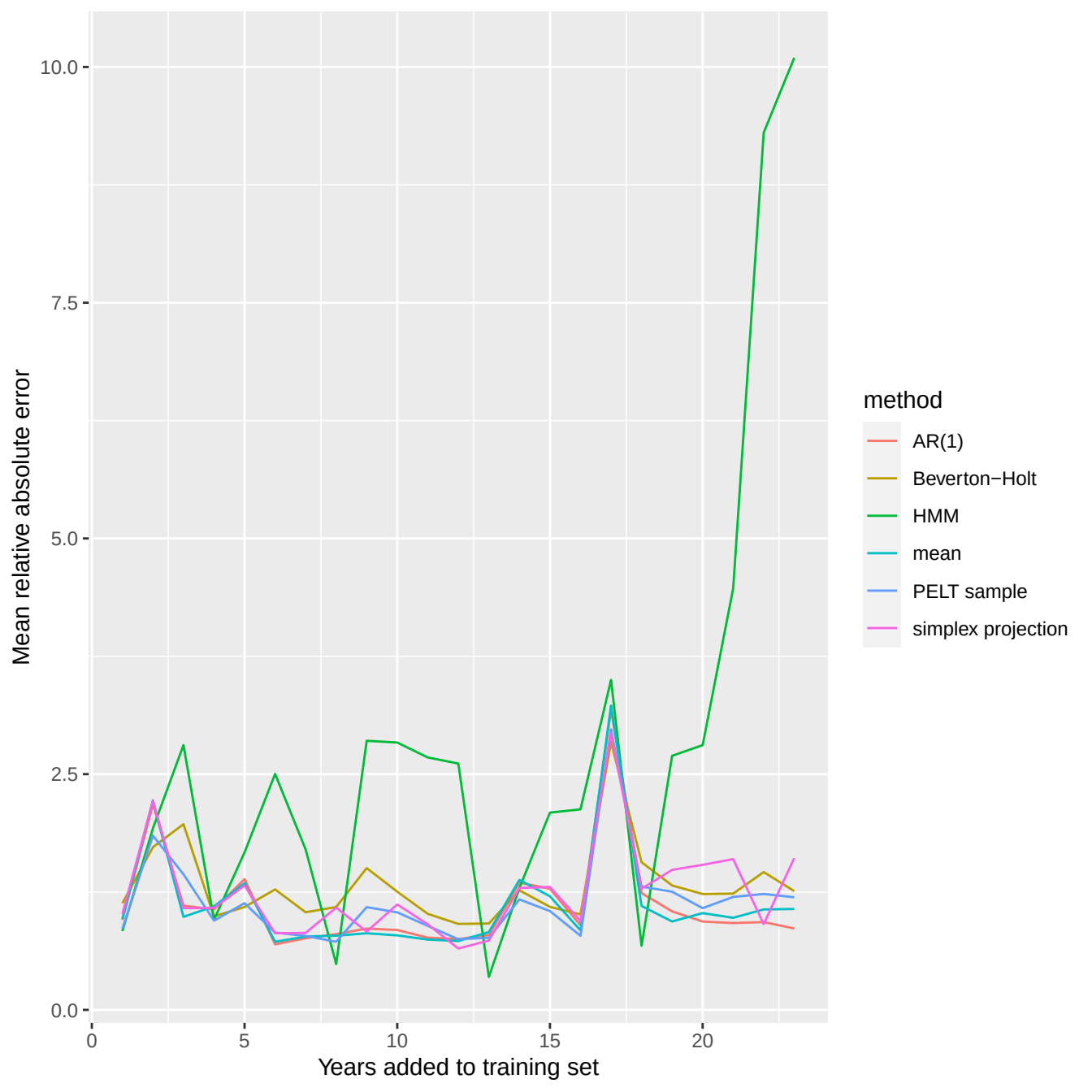
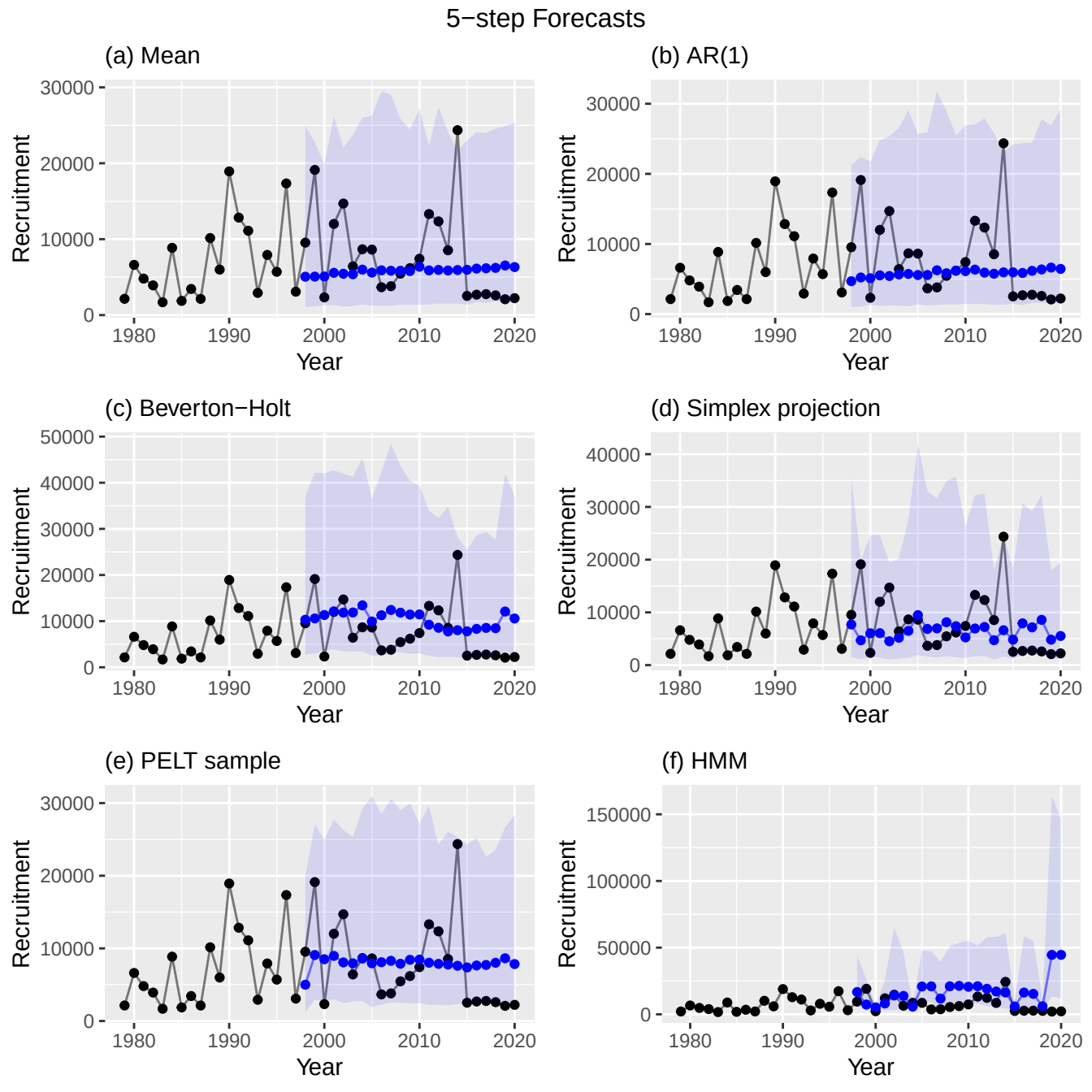
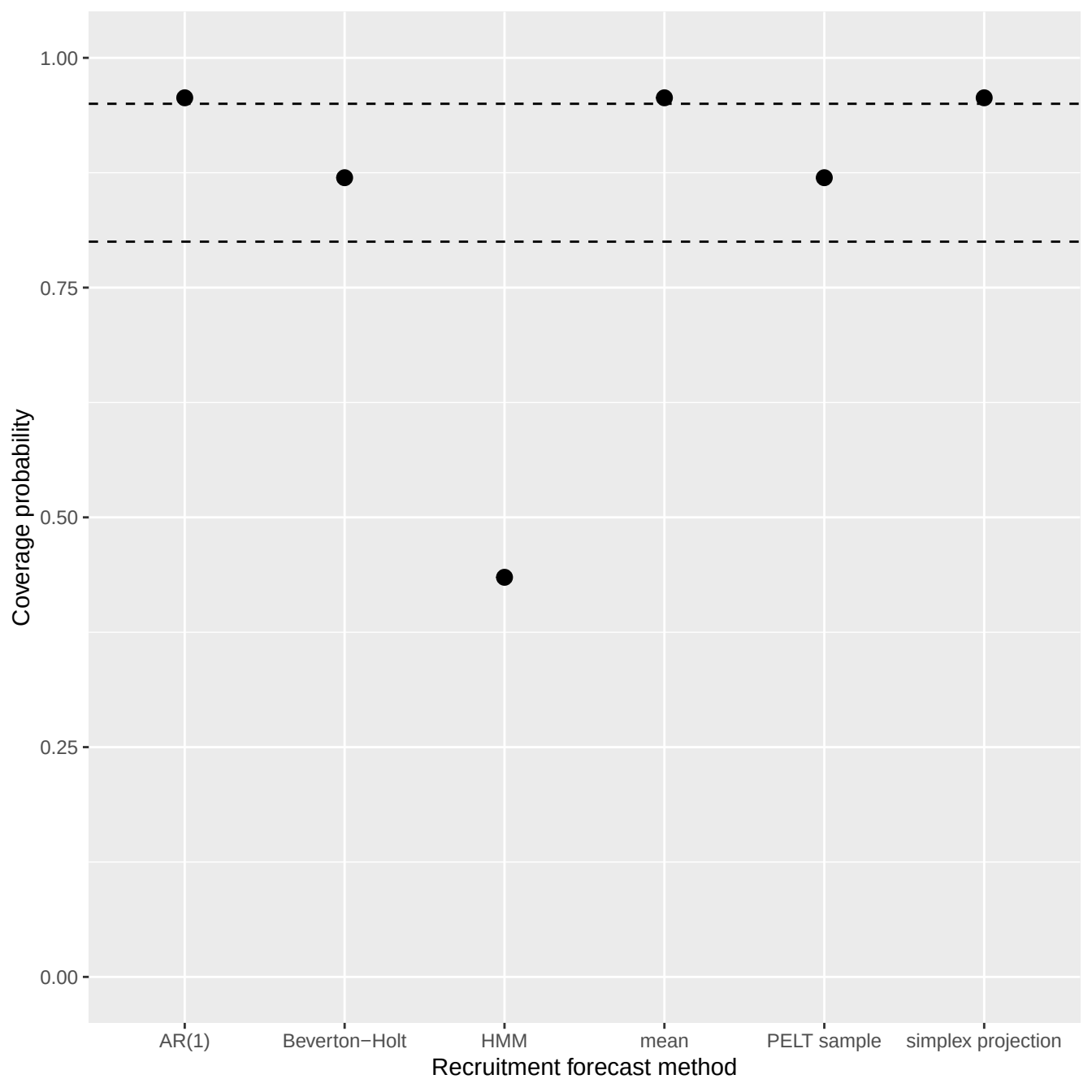
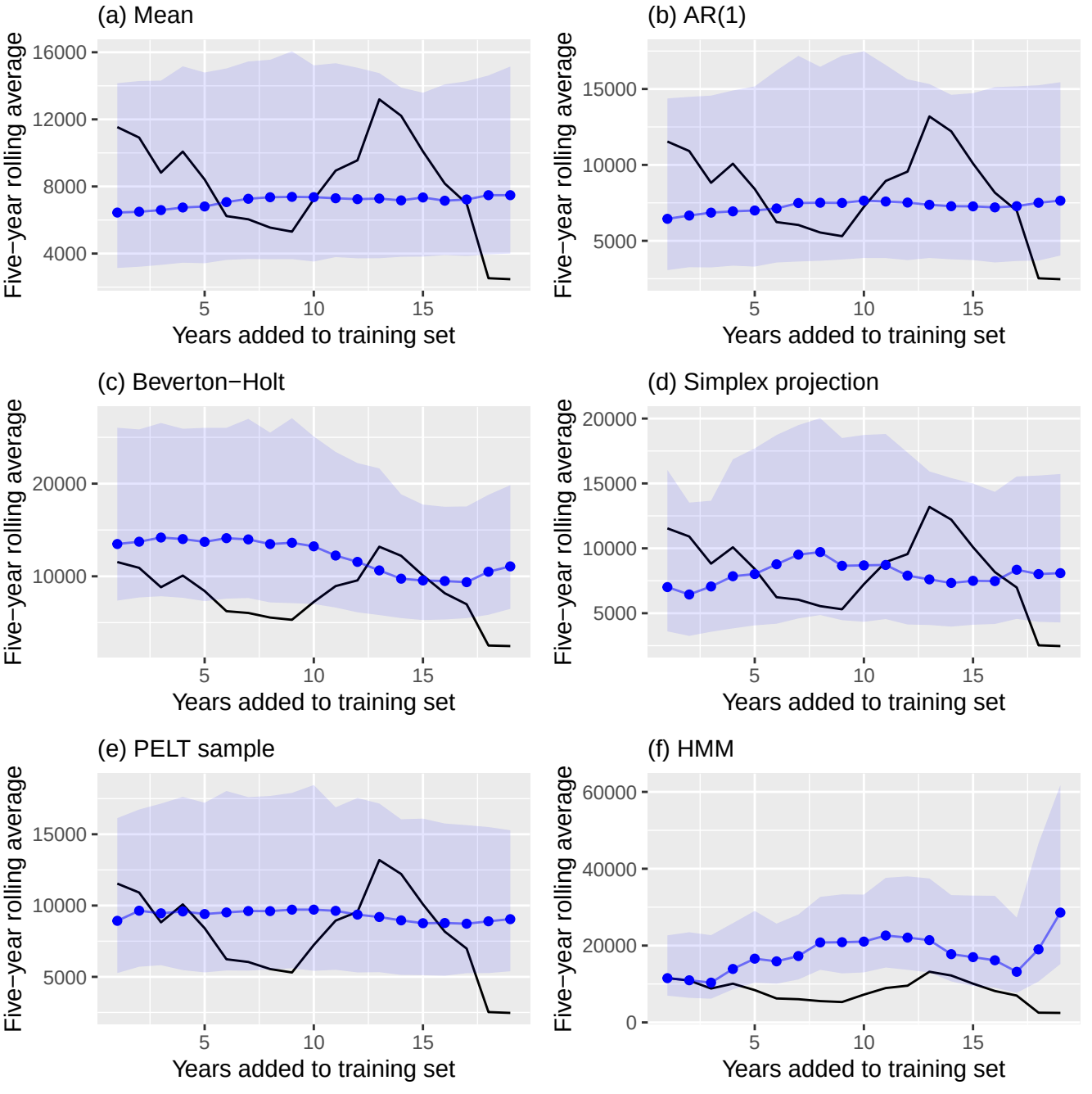

1−step Forecasts
(a) Mean
(b) AR(1)
(c) Beverton−Holt
(d) Simplex projection
(e) PELT sample
(f) HMM
Recruitment
Year
0
10000
20000
30000
40000
50000
100000
150000
200000
1980
1990
2000
2010
2020


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
10.0
7.5
5.0
2.5
0.0
0
5
10
15
20
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
10000
20000
30000
40000
50000
100000
150000
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
16000
12000
8000
4000
15000
10000
5000
20000
60000
40000
0
5
10
15