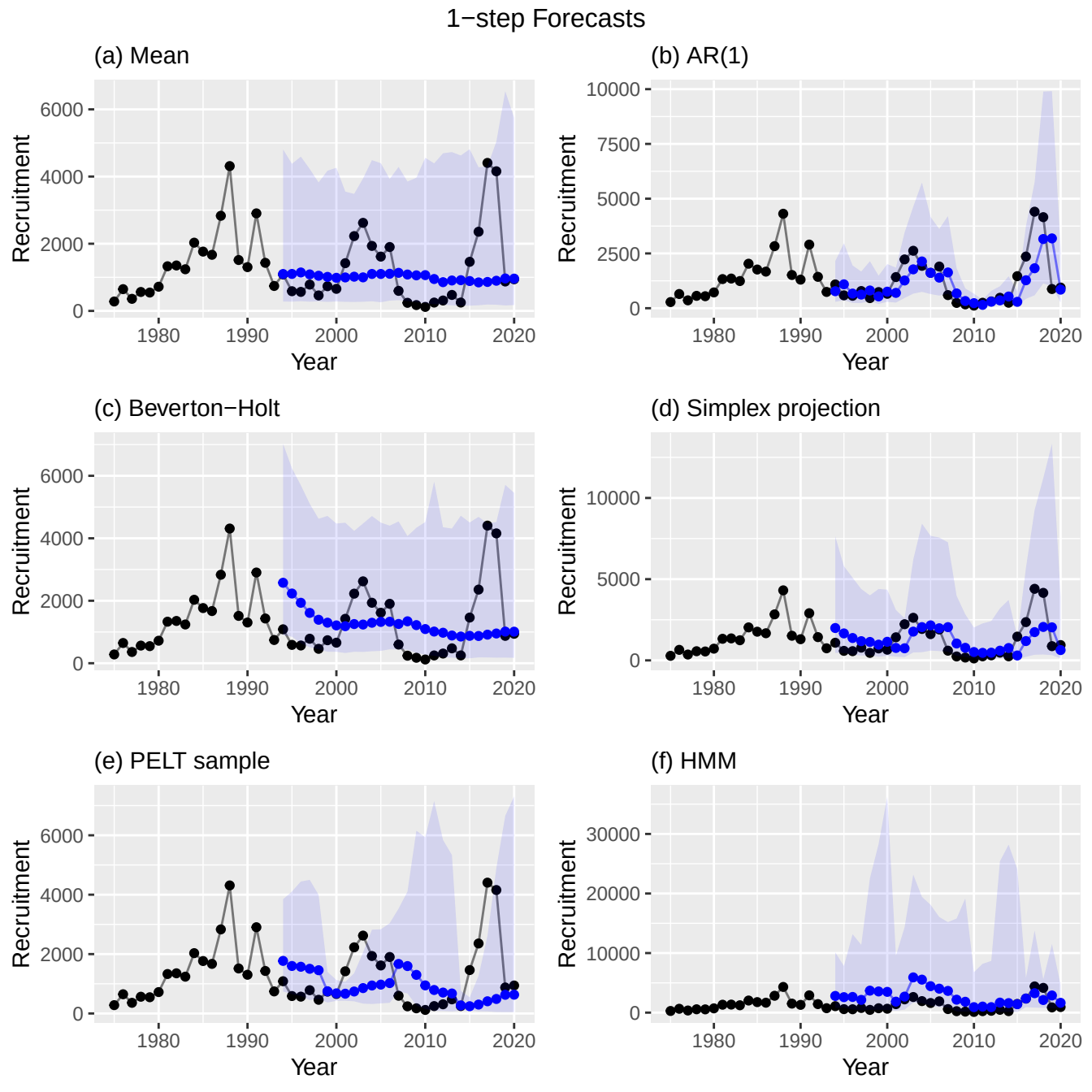
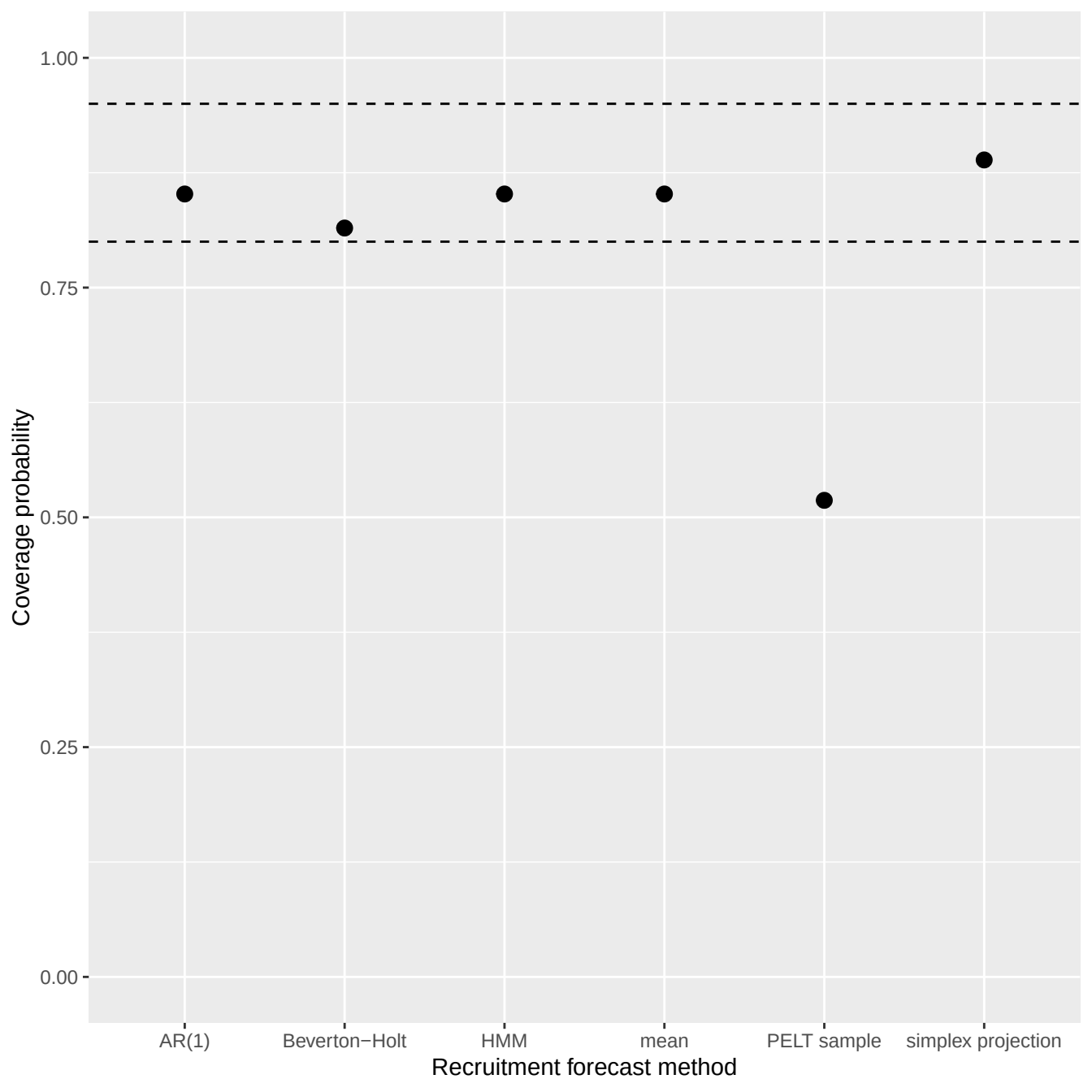
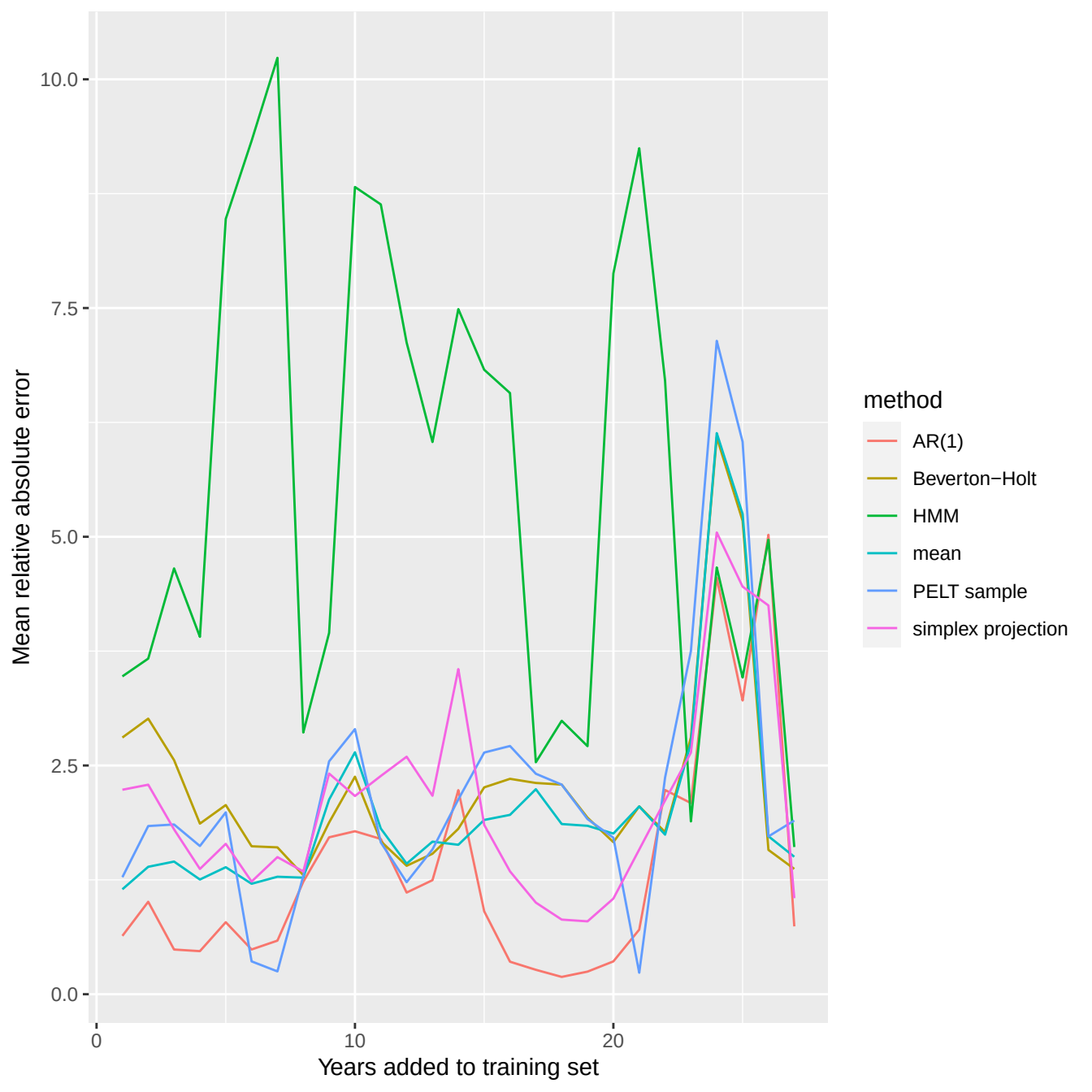
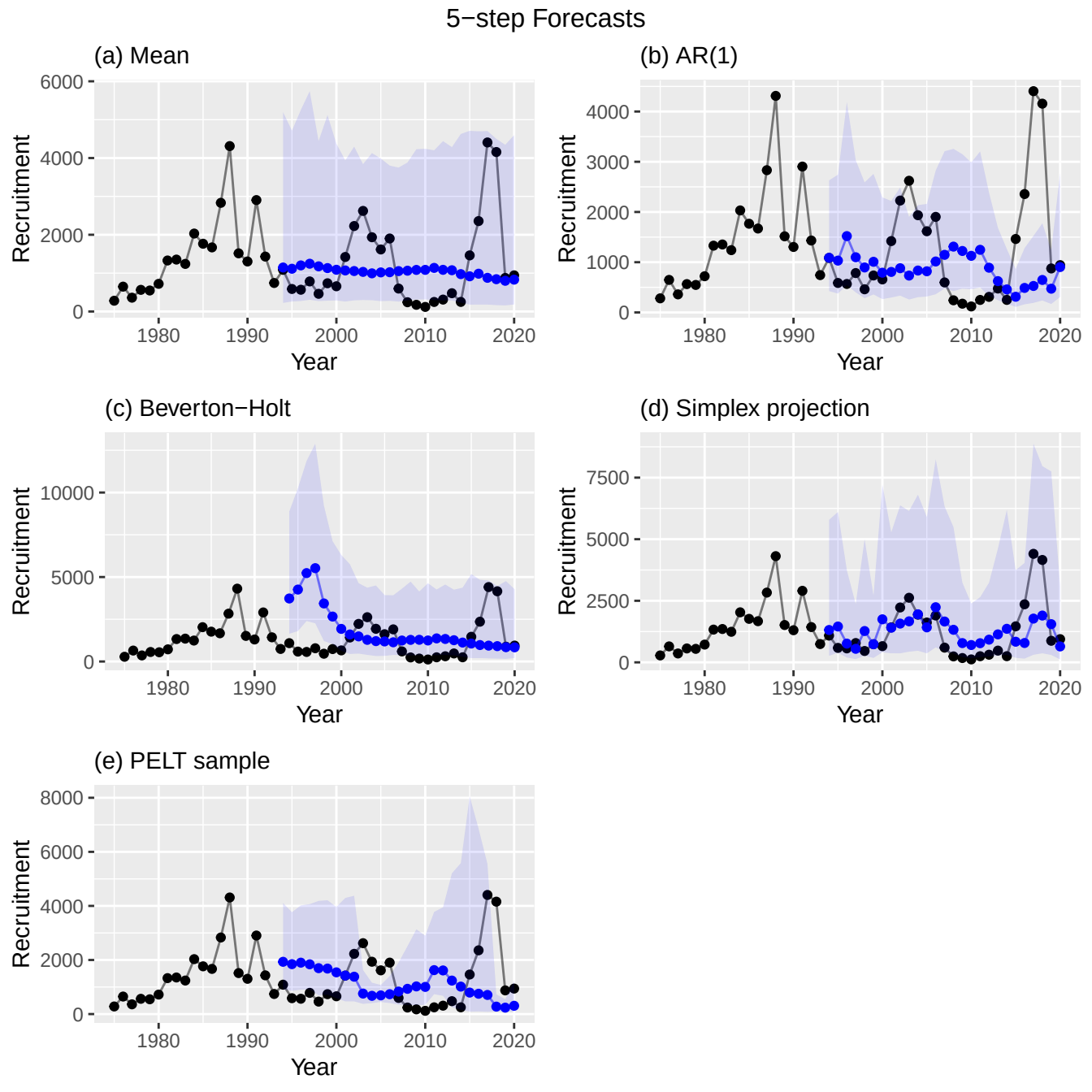
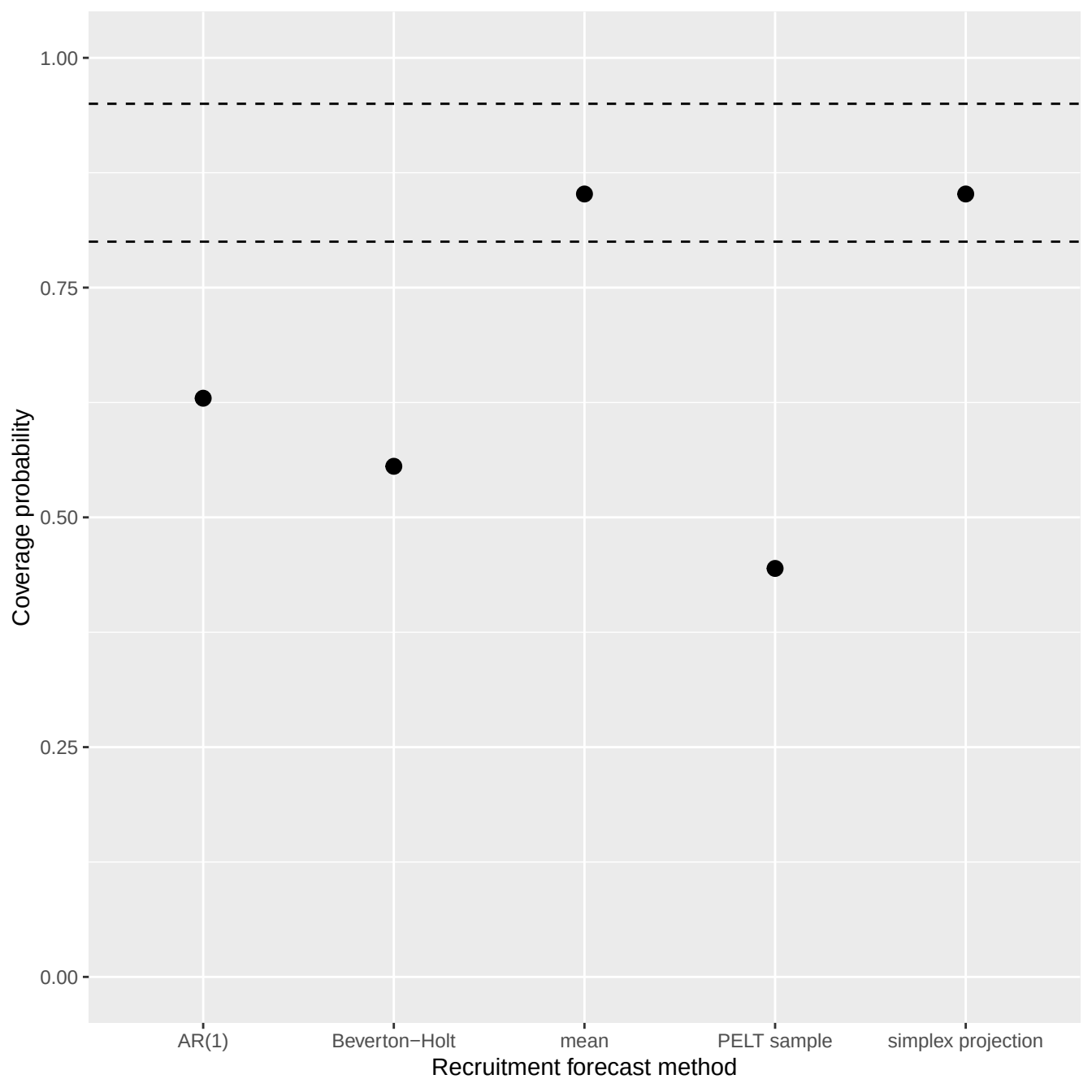
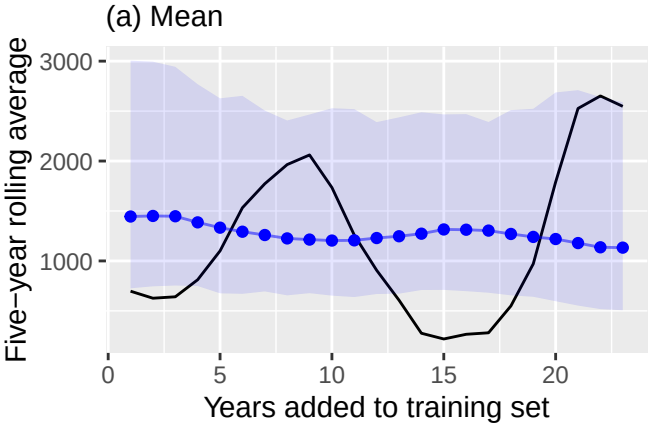

1−step Forecasts
(a) Mean
(b) AR(1)
(c) Beverton−Holt
(d) Simplex projection
(e) PELT sample
(f) HMM
Recruitment
Year
0
2000
4000
6000
2500
5000
7500
10000
10000
20000
30000
1980
1990
2000
2010
2020

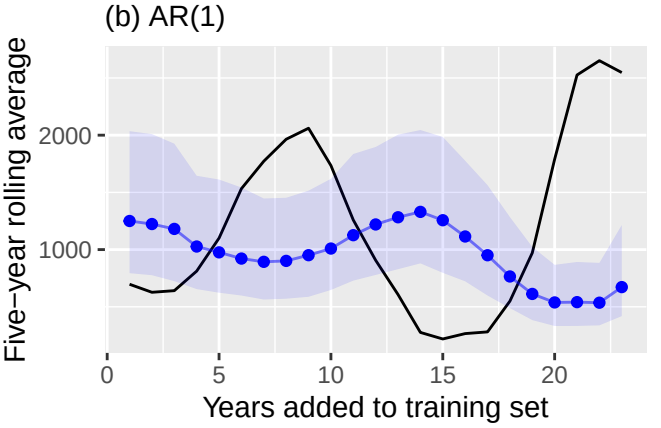

1.00
0.75
0.50
0.25
0.00
Coverage probability
AR(1)
Beverton−Holt
HMM
mean
PELT sample
simplex projection
Recruitment forecast method

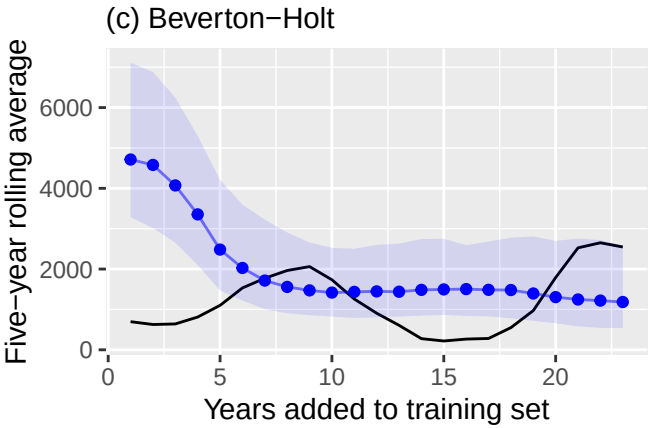

Mean relative absolute error
10.0
7.5
5.0
2.5
0.0
0
10
20
Years added to training set
method
AR(1)
Beverton−Holt
HMM
mean
PELT sample
simplex projection

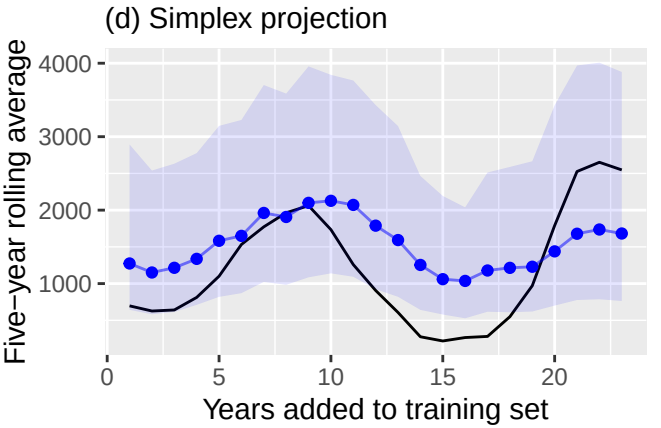

5−step Forecasts
(a) Mean
(b) AR(1)
(c) Beverton−Holt
(d) Simplex projection
(e) PELT sample
Recruitment
Year
0
2000
4000
6000
1000
3000
5000
7500
2500
8000
1980
1990
2000
2010
2020

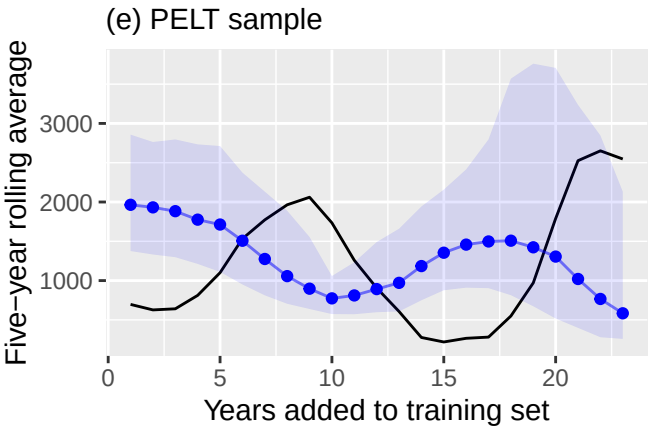

1.00
0.75
0.50
0.25
0.00
Coverage probability
AR(1)
Beverton−Holt
mean
PELT sample
simplex projection
Recruitment forecast method


(a) Mean
Five−year rolling average
3000
2000
1000
0
5
10
15
20
Years added to training set


(b) AR(1)
Five−year rolling average
2000
1000
0
5
10
15
20
Years added to training set


(c) Beverton−Holt
Five−year rolling average
6000
4000
2000
0
5
10
15
20
Years added to training set


(d) Simplex projection
Five−year rolling average
4000
3000
2000
1000
0
5
10
15
20
Years added to training set


(e) PELT sample
Five−year rolling average
3000
2000
1000
0
5
10
15
20
Years added to training set