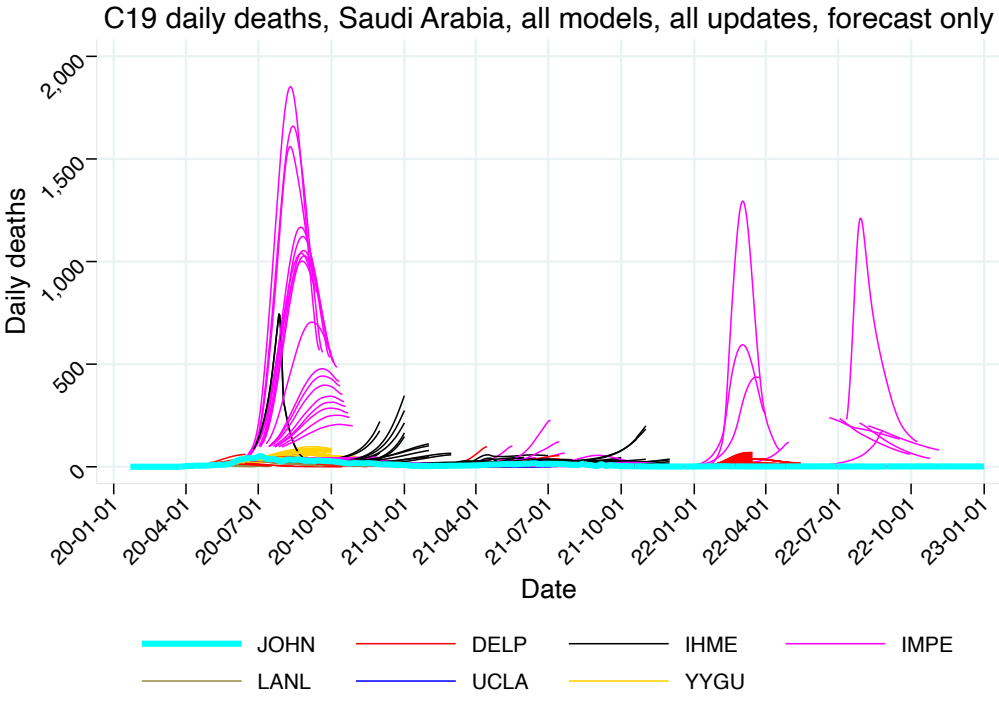
C19 daily deaths, Saudi Arabia, all models, all updates, forecast only
Daily deaths
0
500
1,000
1,500
2,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
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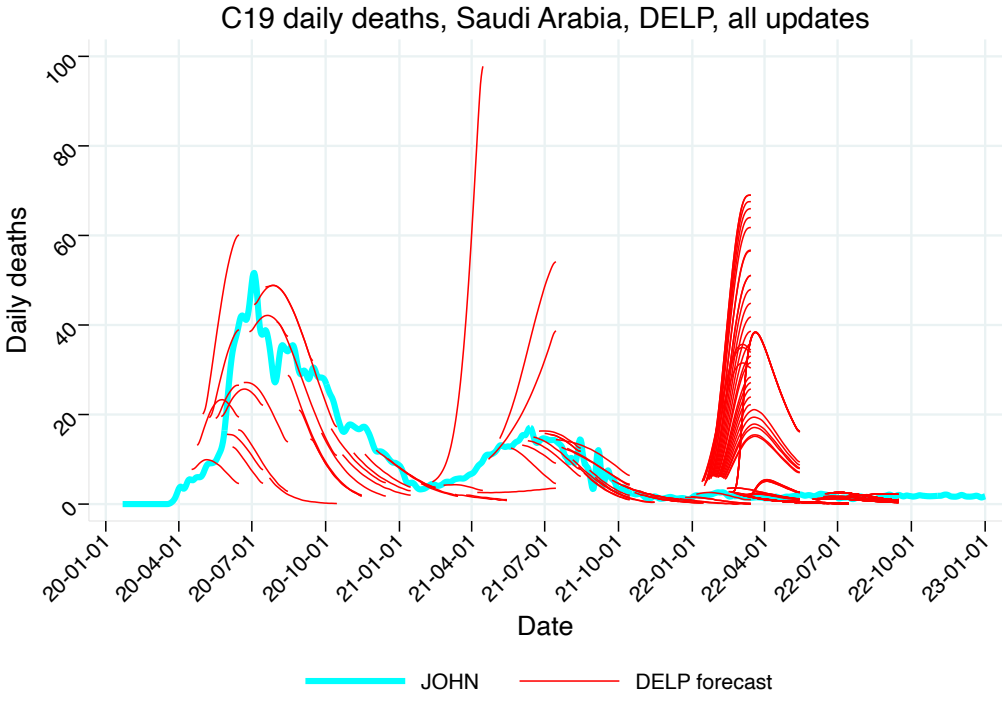
22-10-01
23-01-01
Date
JOHN
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, Saudi Arabia, DELP, all updates
Daily deaths
0
20
40
60
80
100
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
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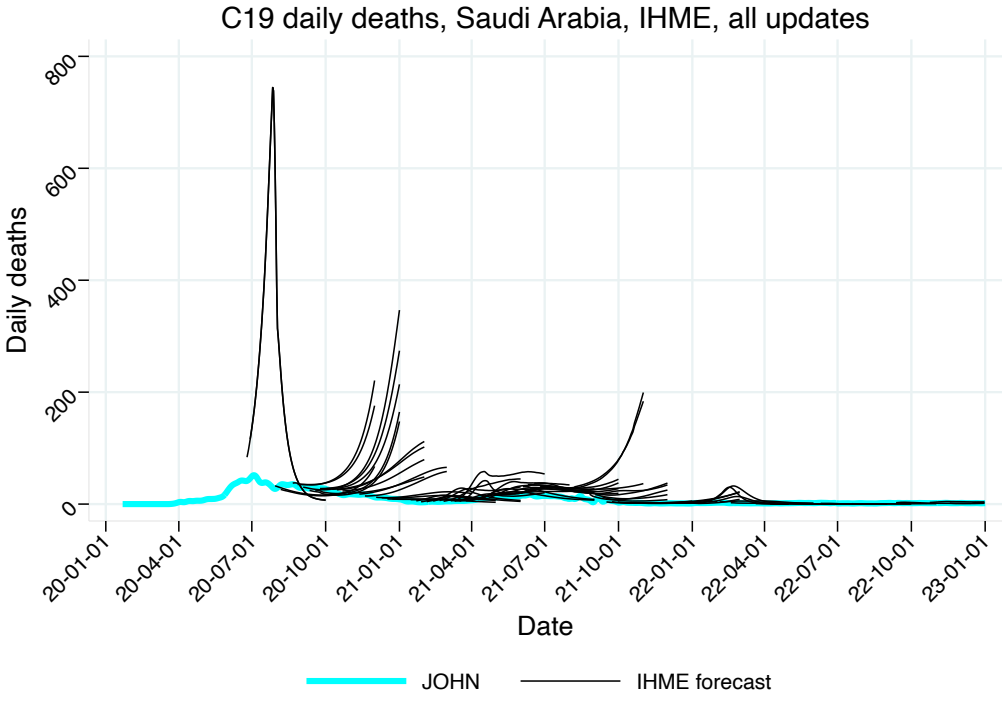
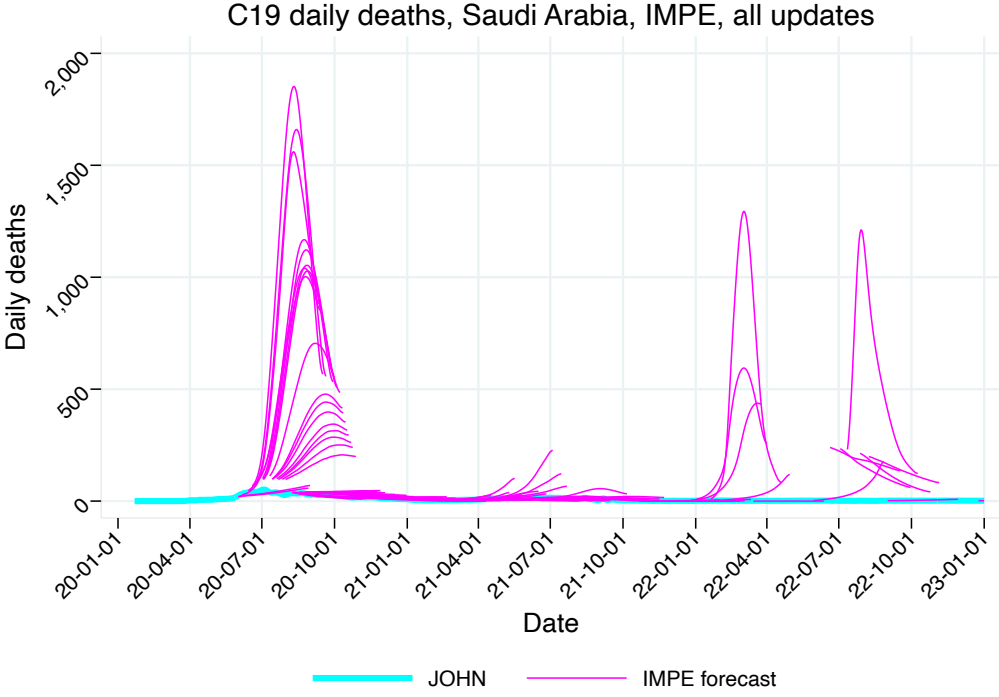
22-04-01
22-07-01
22-10-01
23-01-01
Date
JOHN
DELP forecast


C19 daily deaths, Saudi Arabia, IHME, all updates
Daily deaths
0
200
400
600
800
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
JOHN
IHME forecast


C19 daily deaths, Saudi Arabia, IMPE, all updates
Daily deaths
2,000
1,500
1,000
500
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
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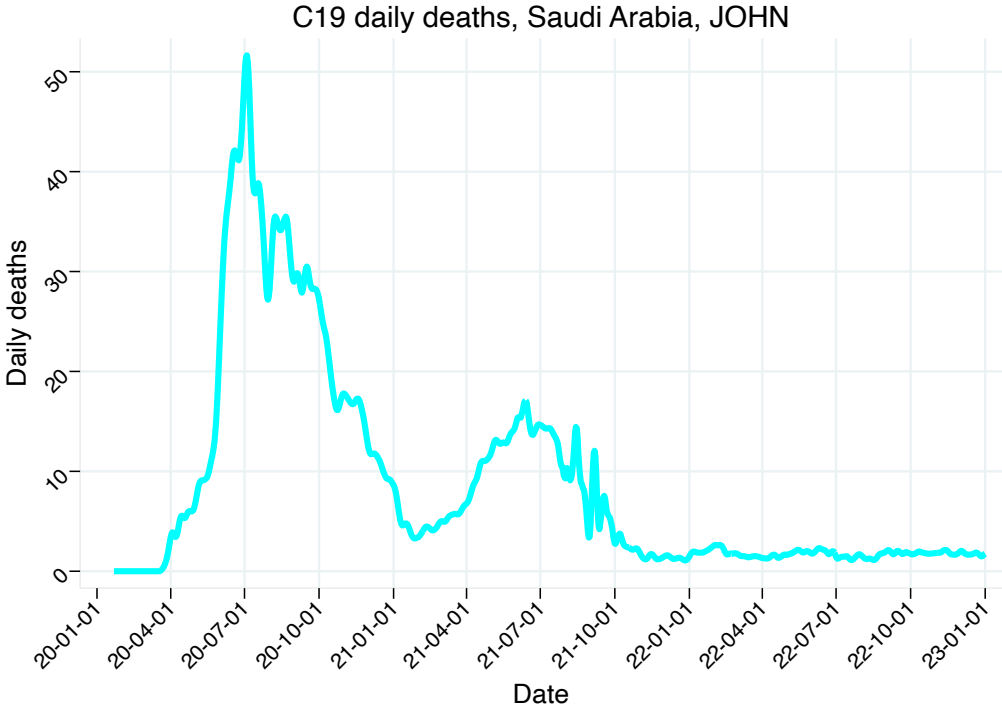
22-04-01
22-07-01
22-10-01
23-01-01
Date
JOHN
IMPE forecast


C19 daily deaths, Saudi Arabia, JOHN
Daily deaths
0
10
20
30
40
50
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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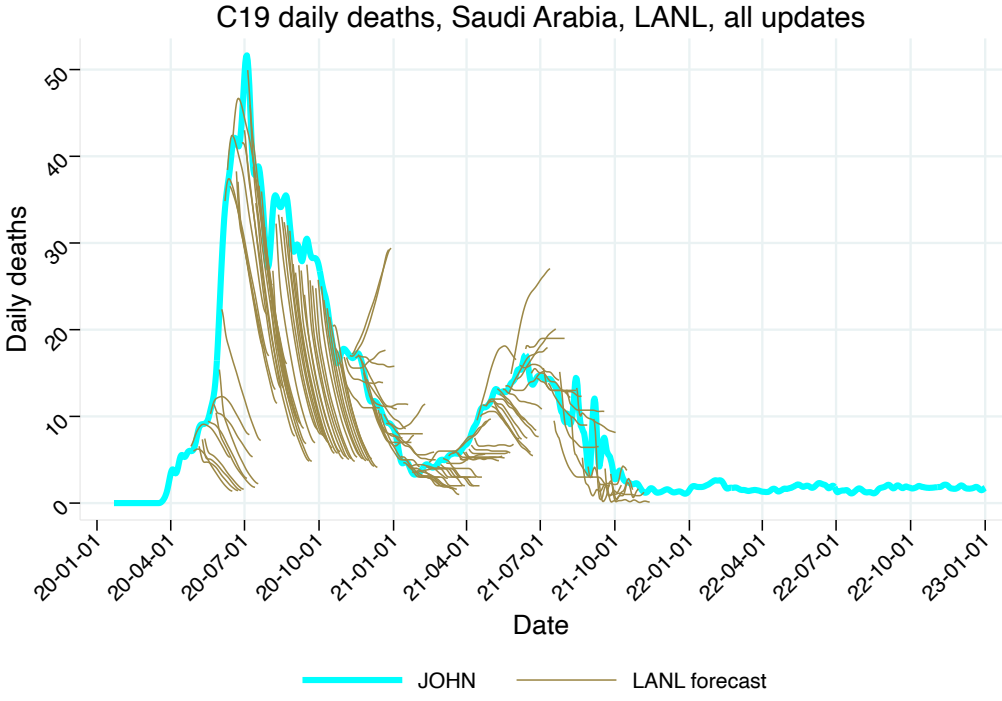
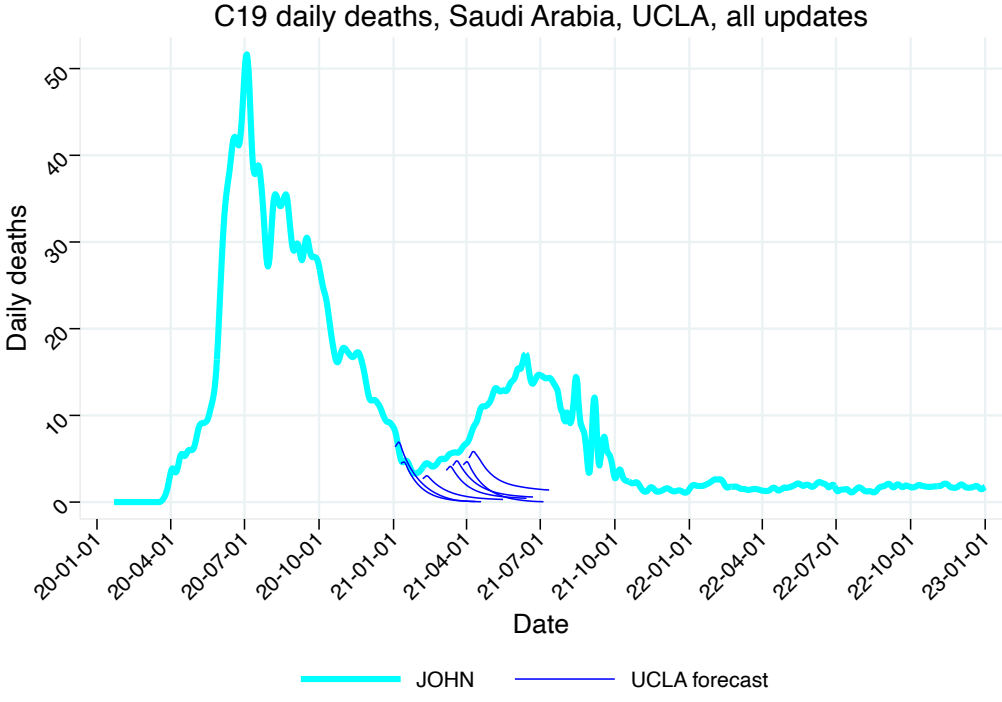
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, Saudi Arabia, LANL, all updates
Daily deaths
0
10
20
30
40
50
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
JOHN
LANL forecast


C19 daily deaths, Saudi Arabia, UCLA, all updates
Daily deaths
0
10
20
30
40
50
20-01-01
20-04-01
20-07-01
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21-01-01
21-04-01
21-07-01
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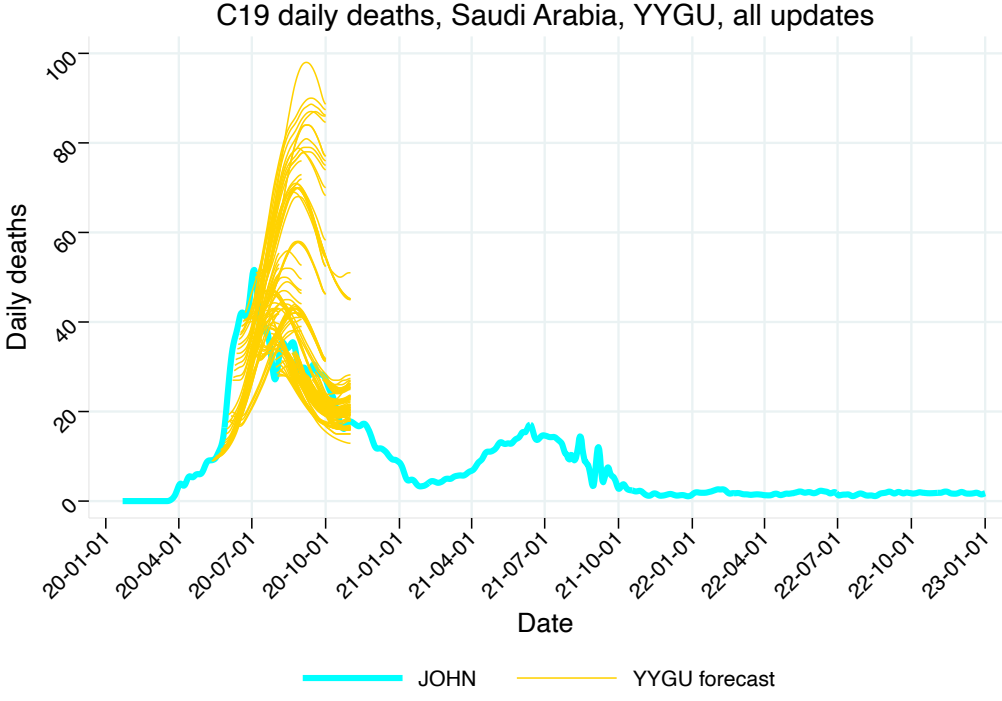
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
JOHN
UCLA forecast


C19 daily deaths, Saudi Arabia, YYGU, all updates
Daily deaths
0
20
40
60
80
100
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
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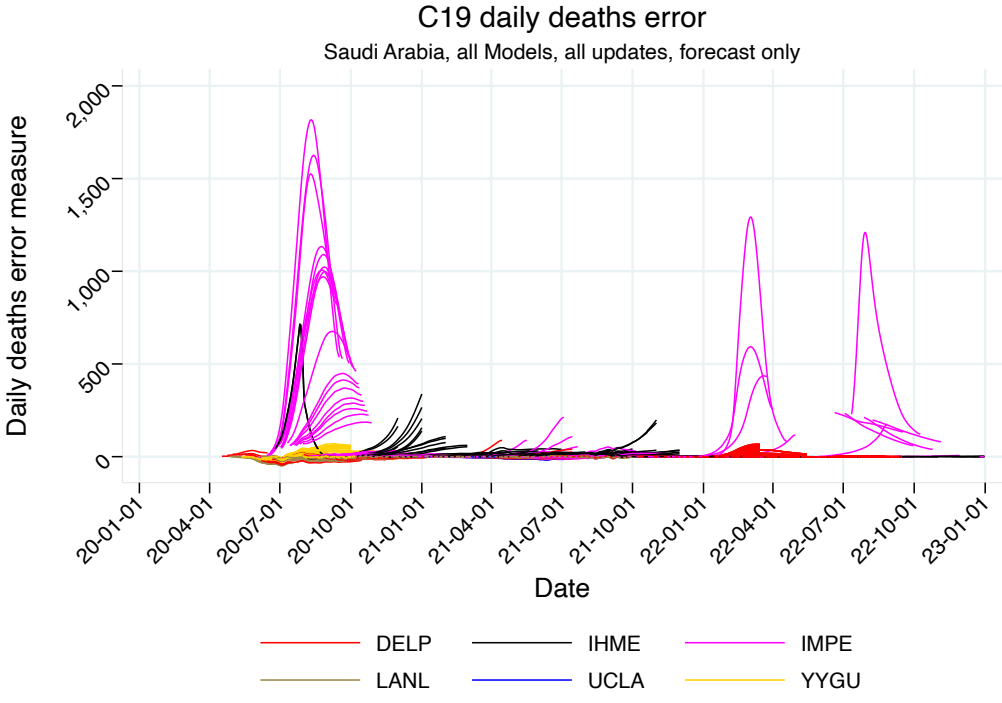
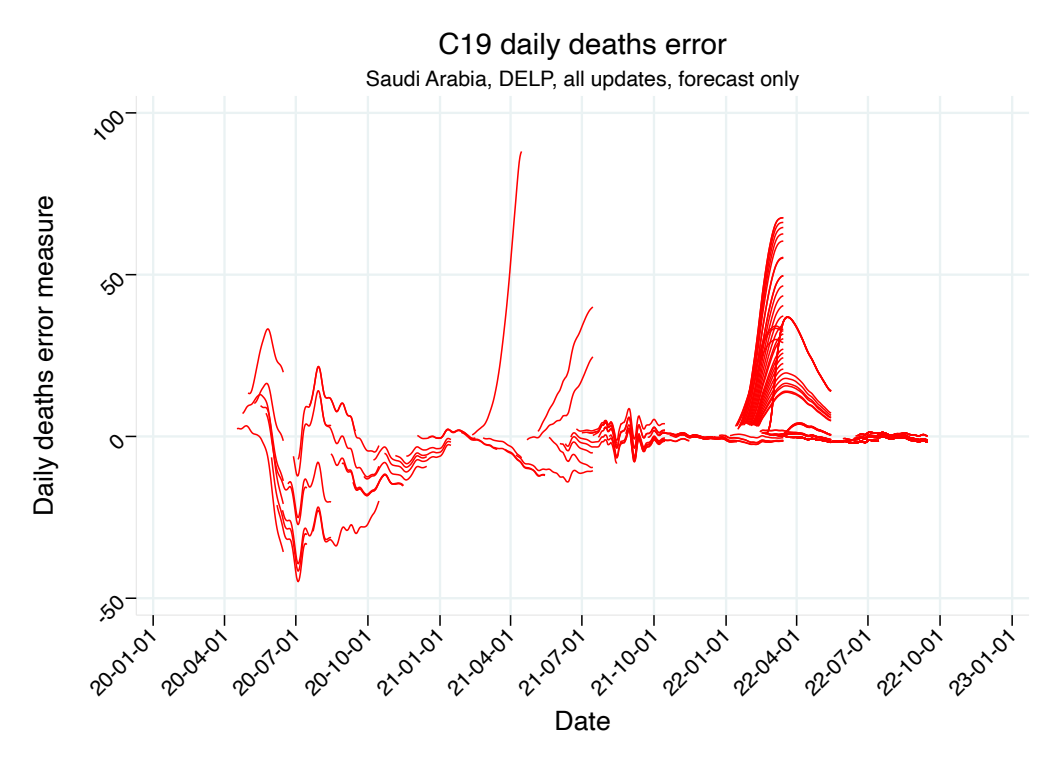
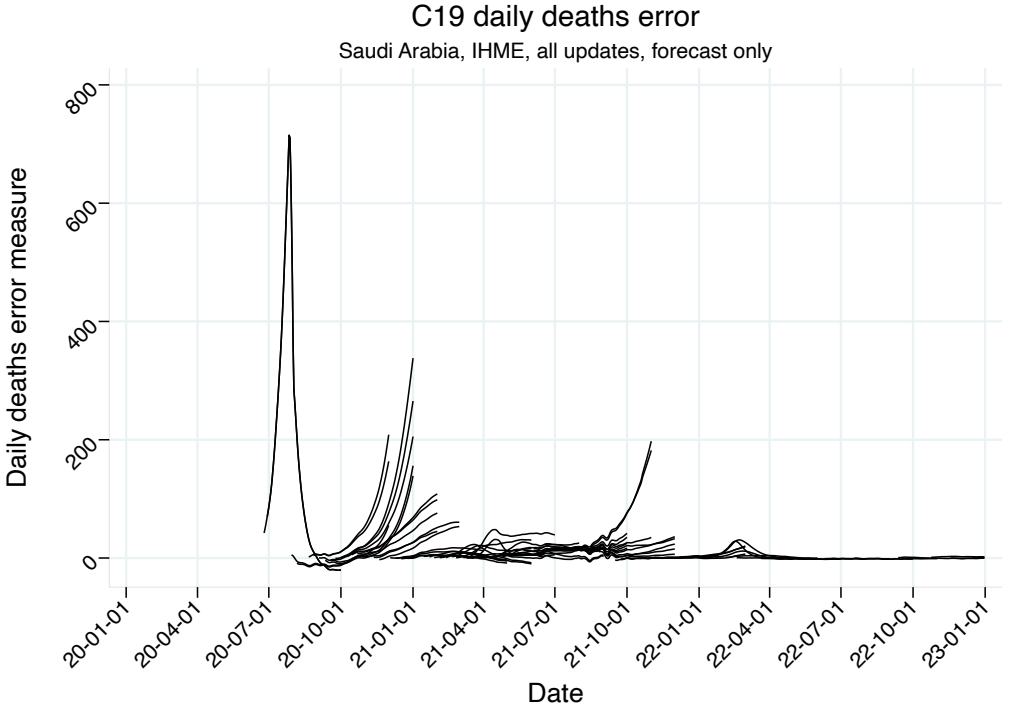
22-10-01
23-01-01
Date
JOHN
YYGU forecast


C19 daily deaths error
Saudi Arabia, all Models, all updates, forecast only
Daily deaths error measure
2,000
1,500
1,000
500
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths error
Saudi Arabia, DELP, all updates, forecast only
Daily deaths error measure
100
50
0
-50
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths error
Saudi Arabia, IHME, all updates, forecast only
Daily deaths error measure
800
600
400
200
0
20-01-01
20-04-01
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20-10-01
21-01-01
21-04-01
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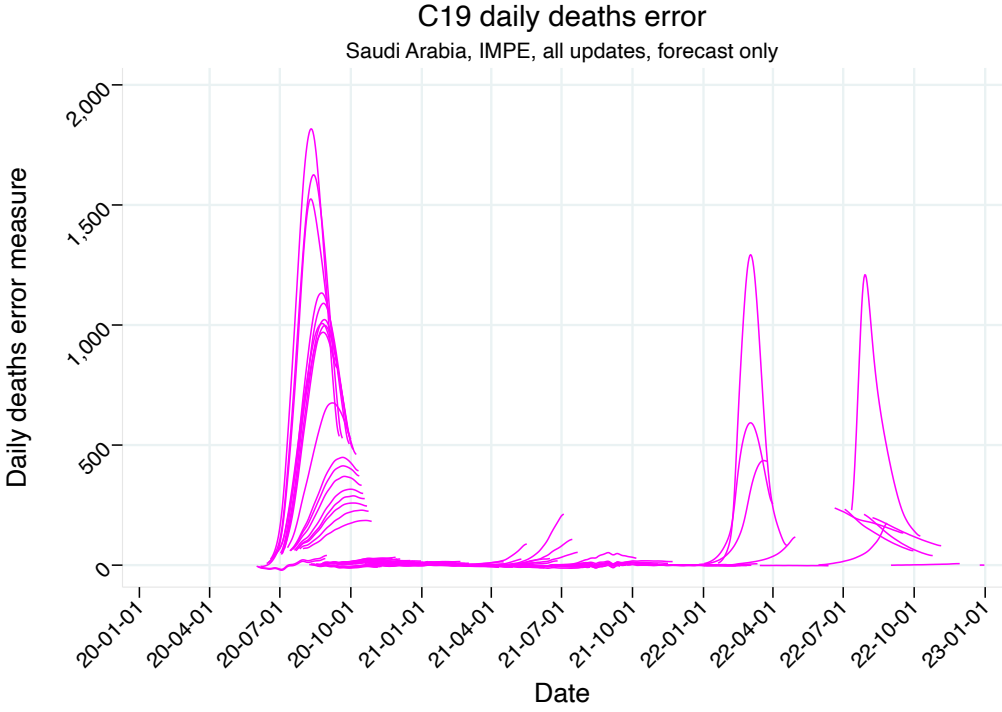
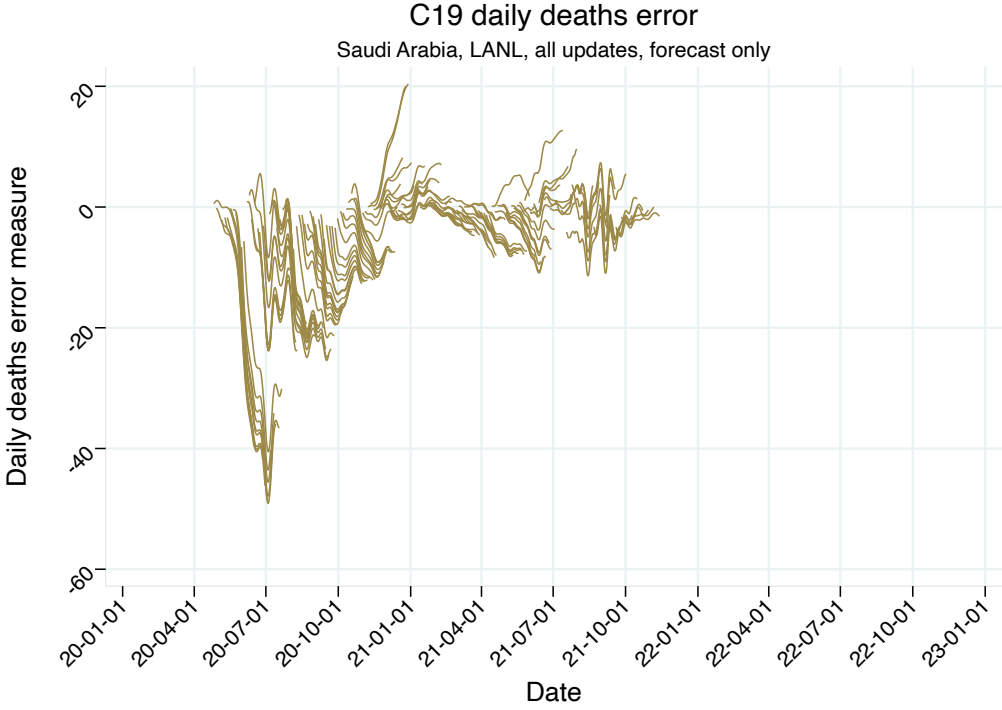
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths error
Saudi Arabia, IMPE, all updates, forecast only
Daily deaths error measure
2,000
1,500
1,000
500
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths error
Saudi Arabia, LANL, all updates, forecast only
Daily deaths error measure
20
0
-20
-40
-60
20-01-01
20-04-01
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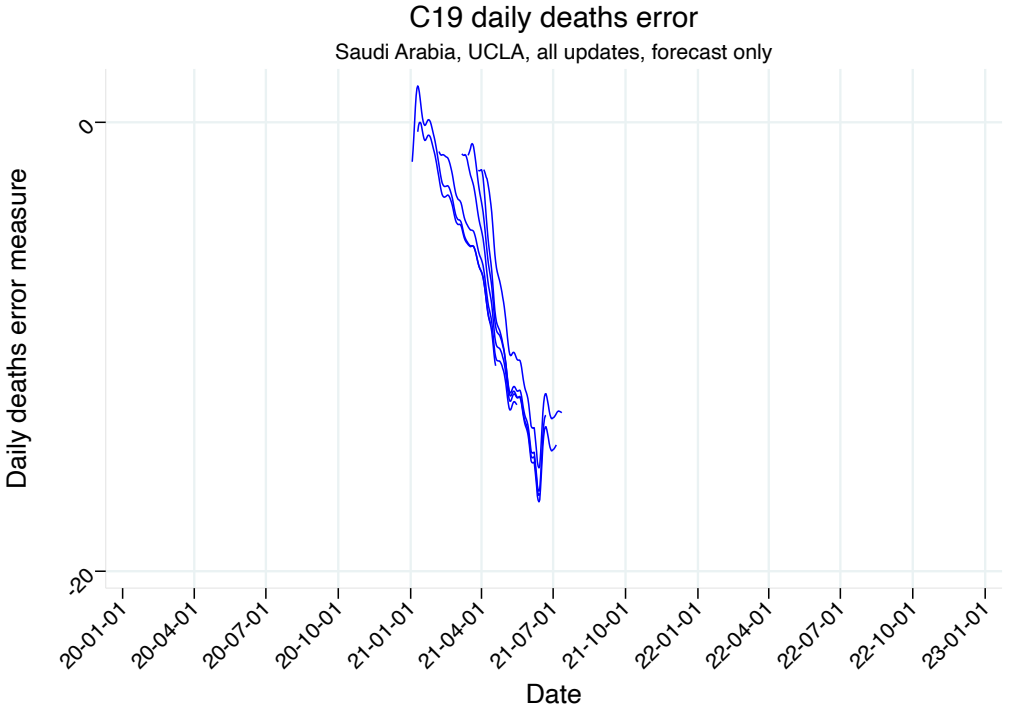
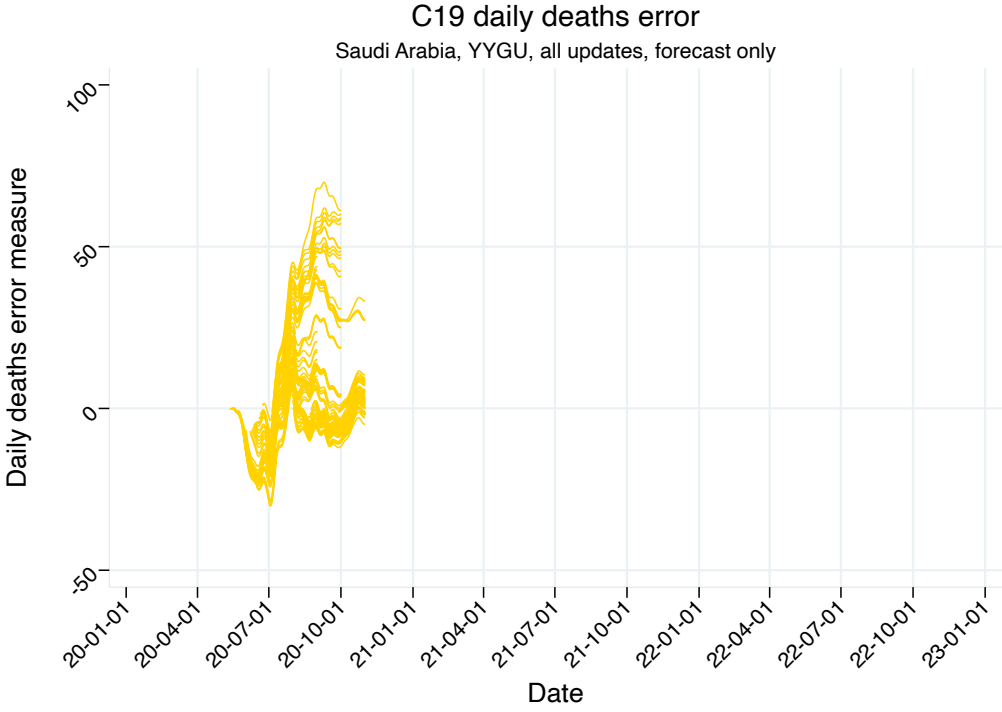
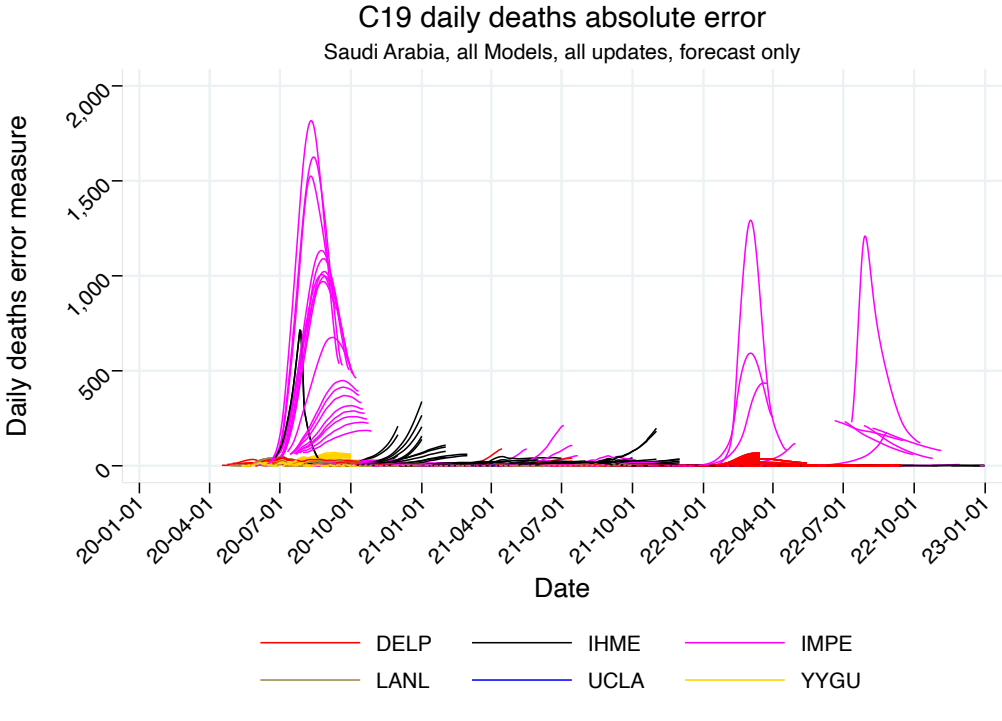
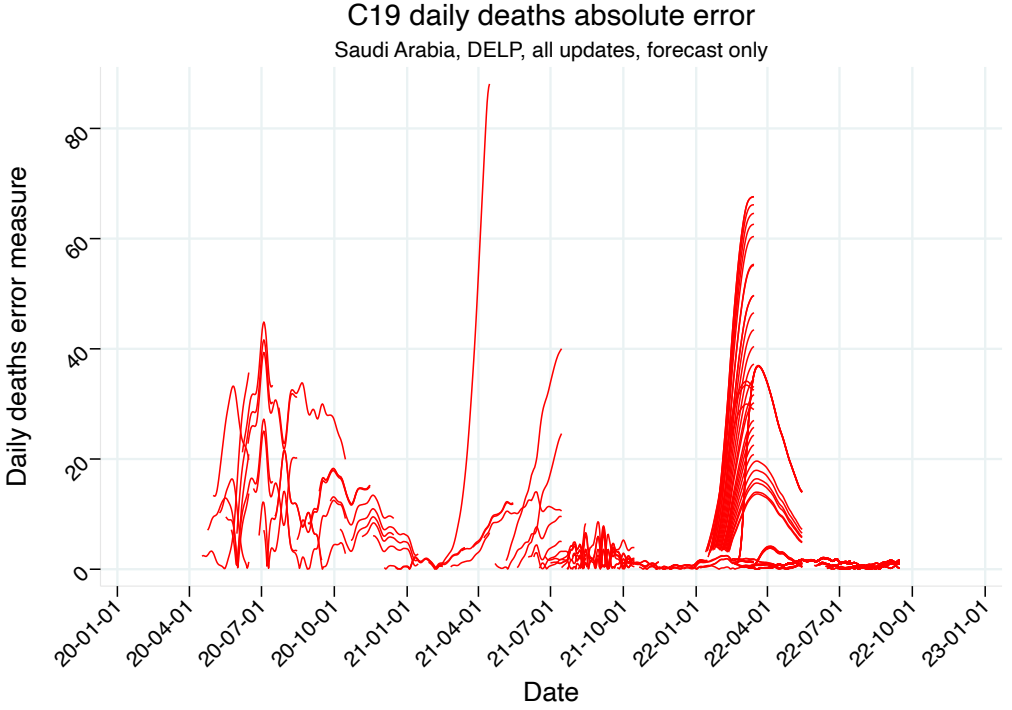
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths error
Saudi Arabia, UCLA, all updates, forecast only
Daily deaths error measure
0
-20
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths error
Saudi Arabia, YYGU, all updates, forecast only
Daily deaths error measure
100
50
0
-50
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute error
Saudi Arabia, all Models, all updates, forecast only
Daily deaths error measure
2,000
1,500
1,000
500
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths absolute error
Saudi Arabia, DELP, all updates, forecast only
Daily deaths error measure
0
20
40
60
80
20-01-01
20-04-01
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20-10-01
21-01-01
21-04-01
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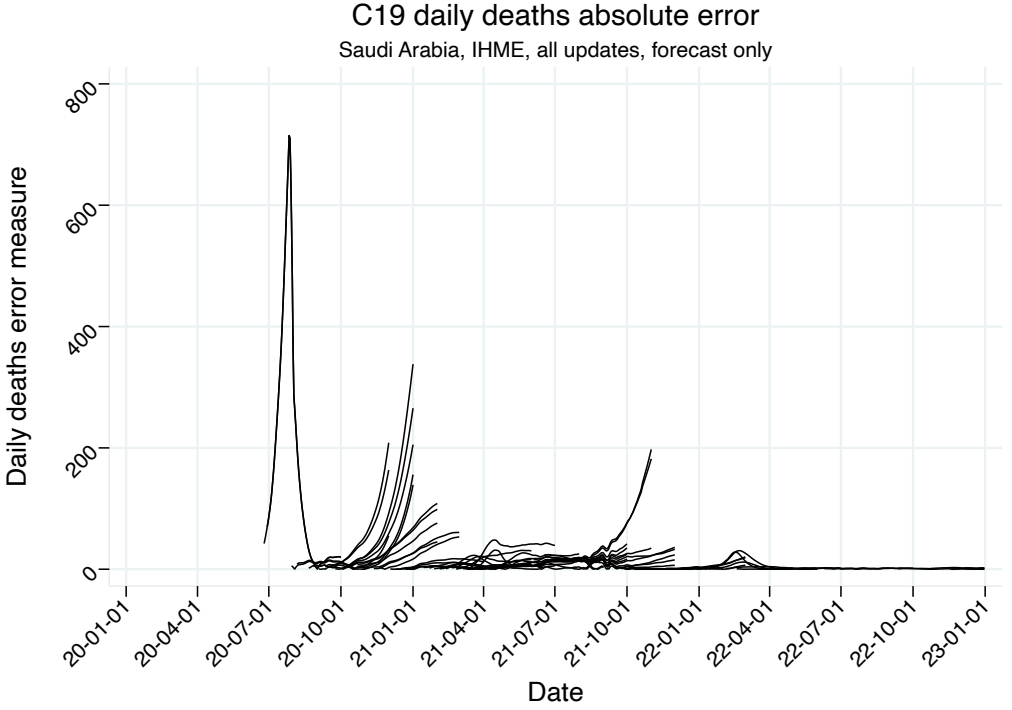
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute error
Saudi Arabia, IHME, all updates, forecast only
Daily deaths error measure
0
200
400
600
800
20-01-01
20-04-01
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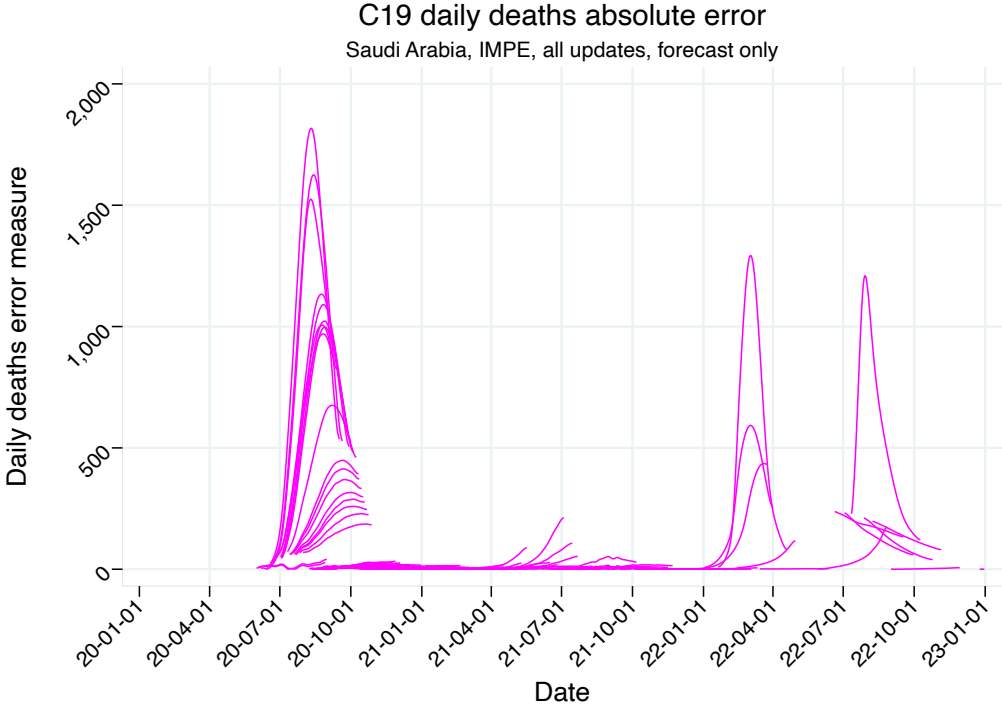
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute error
Saudi Arabia, IMPE, all updates, forecast only
Daily deaths error measure
2,000
1,500
1,000
500
0
20-01-01
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20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
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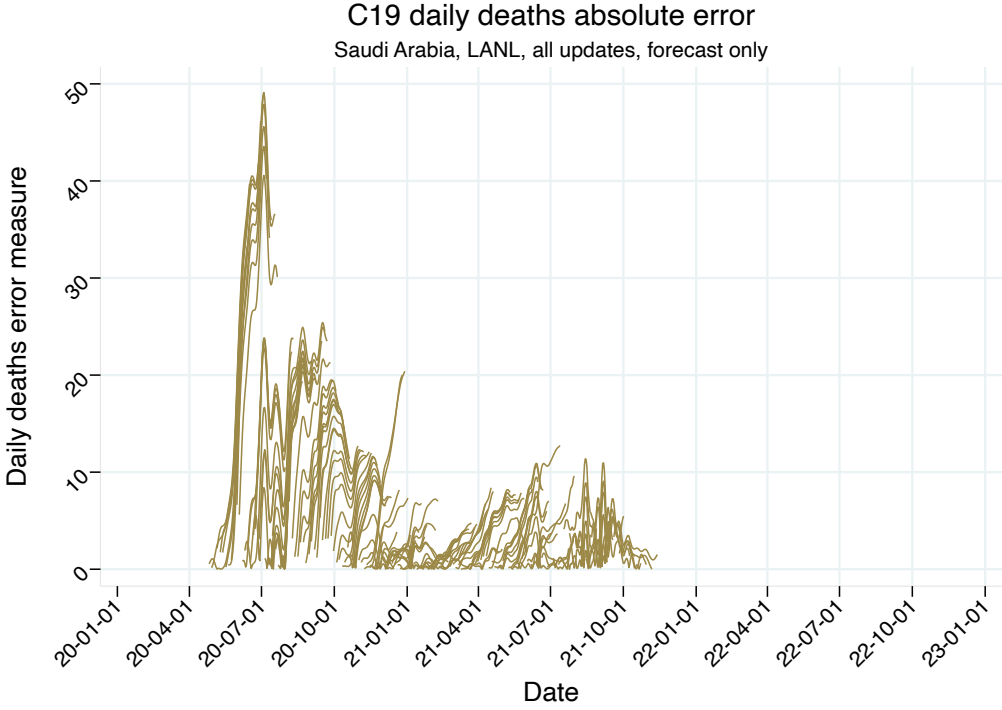
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute error
Saudi Arabia, LANL, all updates, forecast only
Daily deaths error measure
0
10
20
30
40
50
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
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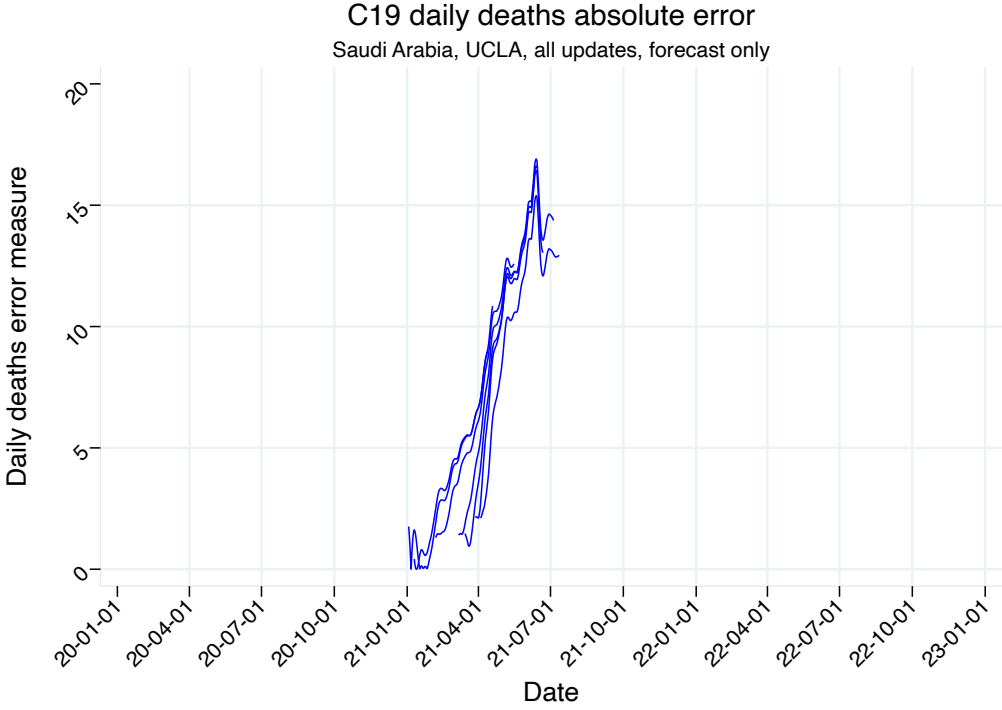
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute error
Saudi Arabia, UCLA, all updates, forecast only
Daily deaths error measure
0
5
10
15
20
20-01-01
20-04-01
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20-10-01
21-01-01
21-04-01
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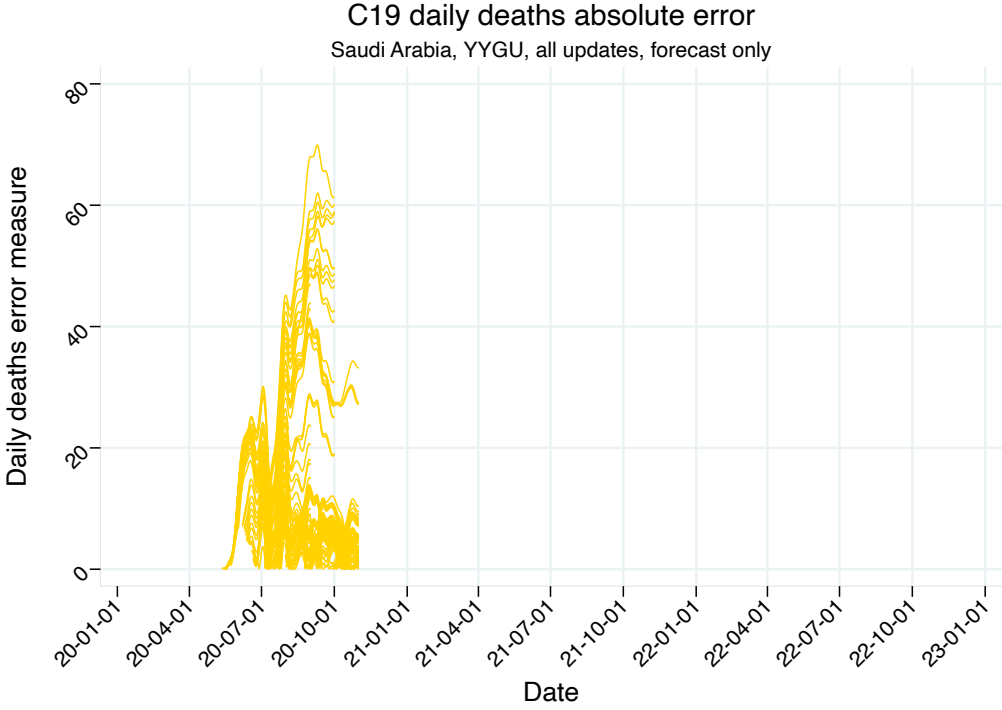
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute error
Saudi Arabia, YYGU, all updates, forecast only
Daily deaths error measure
0
20
40
60
80
20-01-01
20-04-01
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20-10-01
21-01-01
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22-07-01
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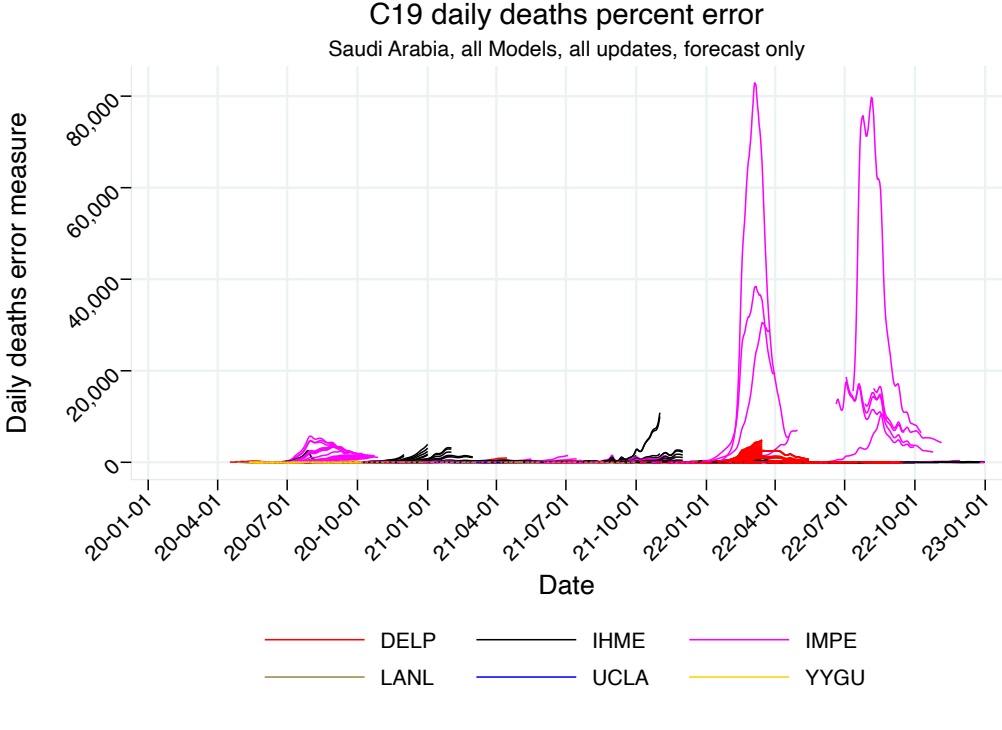
23-01-01
Date


C19 daily deaths percent error
Saudi Arabia, all Models, all updates, forecast only
Daily deaths error measure
0
20,000
40,000
60,000
80,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
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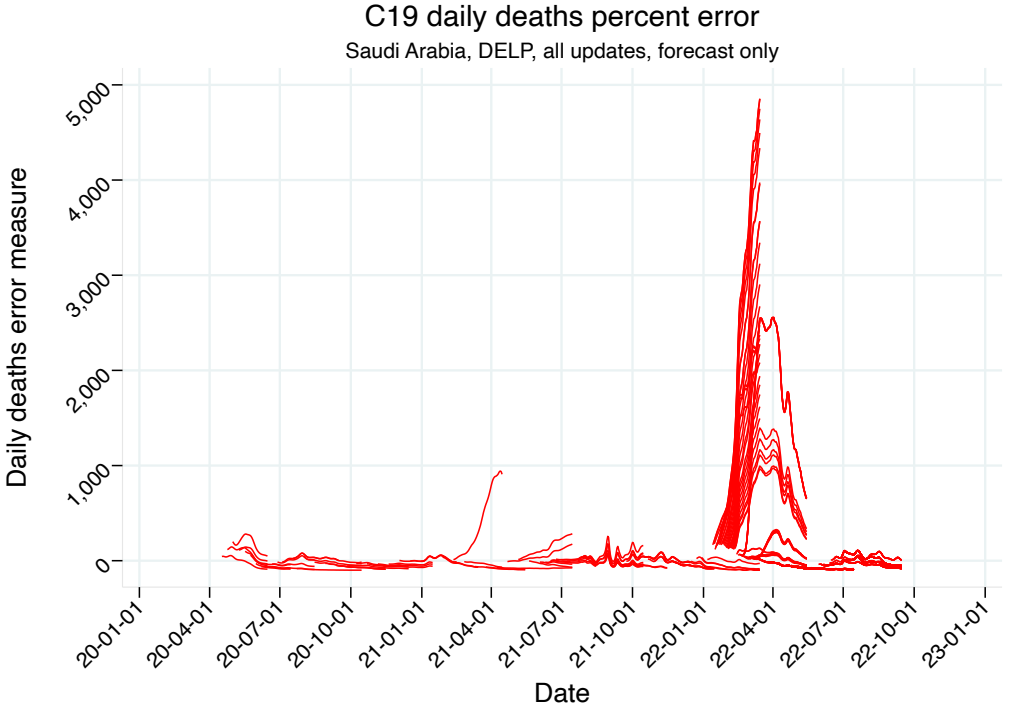
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths percent error
Saudi Arabia, DELP, all updates, forecast only
Daily deaths error measure
5,000
4,000
3,000
2,000
1,000
0
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21-01-01
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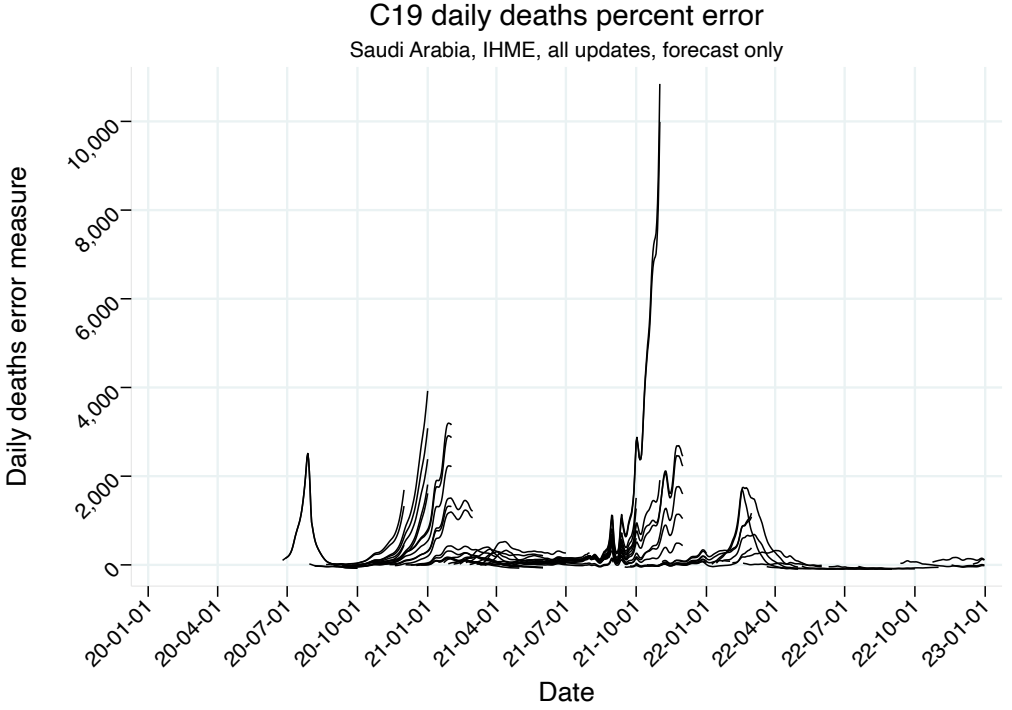
Date


C19 daily deaths percent error
Saudi Arabia, IHME, all updates, forecast only
Daily deaths error measure
10,000
8,000
6,000
4,000
2,000
0
20-01-01
20-04-01
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21-01-01
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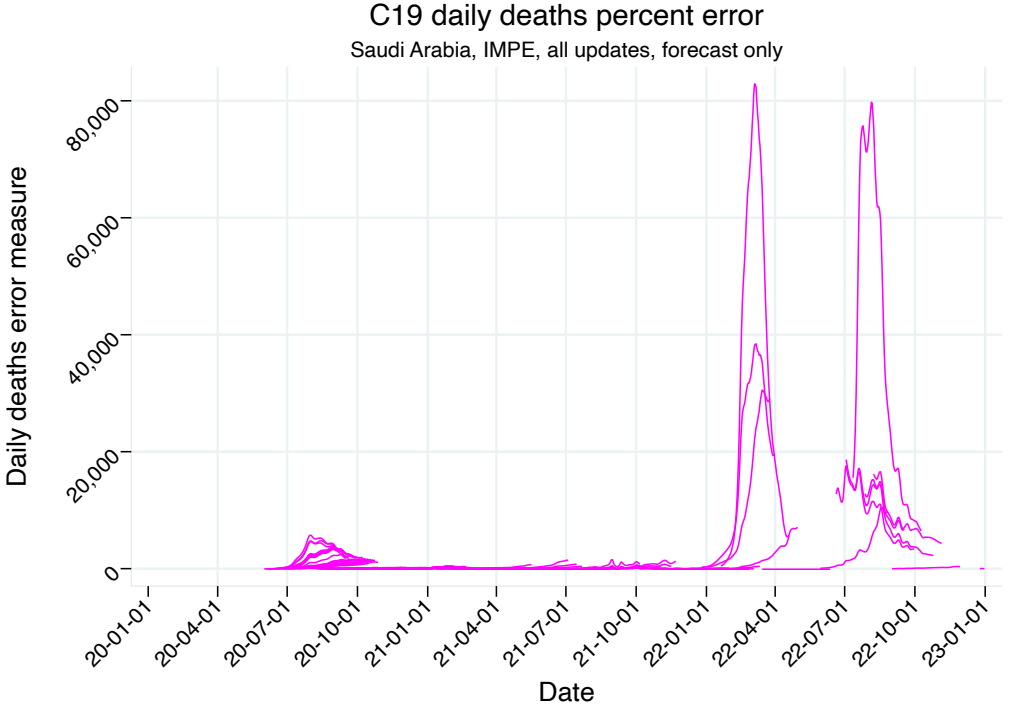
23-01-01
Date


C19 daily deaths percent error
Saudi Arabia, IMPE, all updates, forecast only
Daily deaths error measure
80,000
60,000
40,000
20,000
0
20-01-01
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21-01-01
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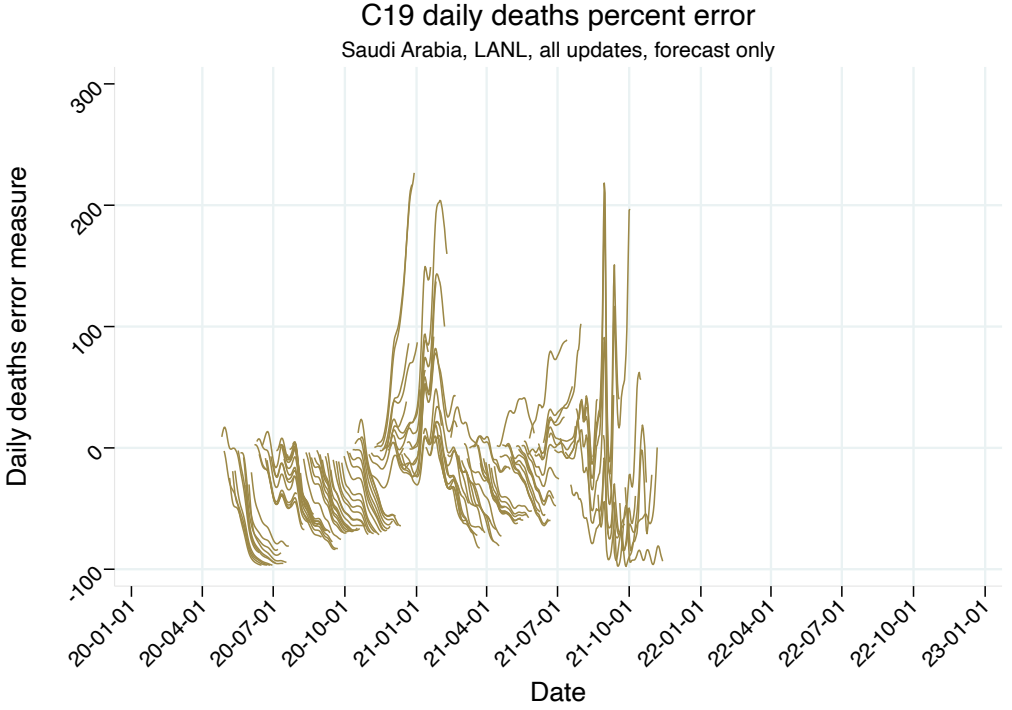
23-01-01
Date


C19 daily deaths percent error
Saudi Arabia, LANL, all updates, forecast only
Daily deaths error measure
300
200
100
0
-100
20-01-01
20-04-01
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20-10-01
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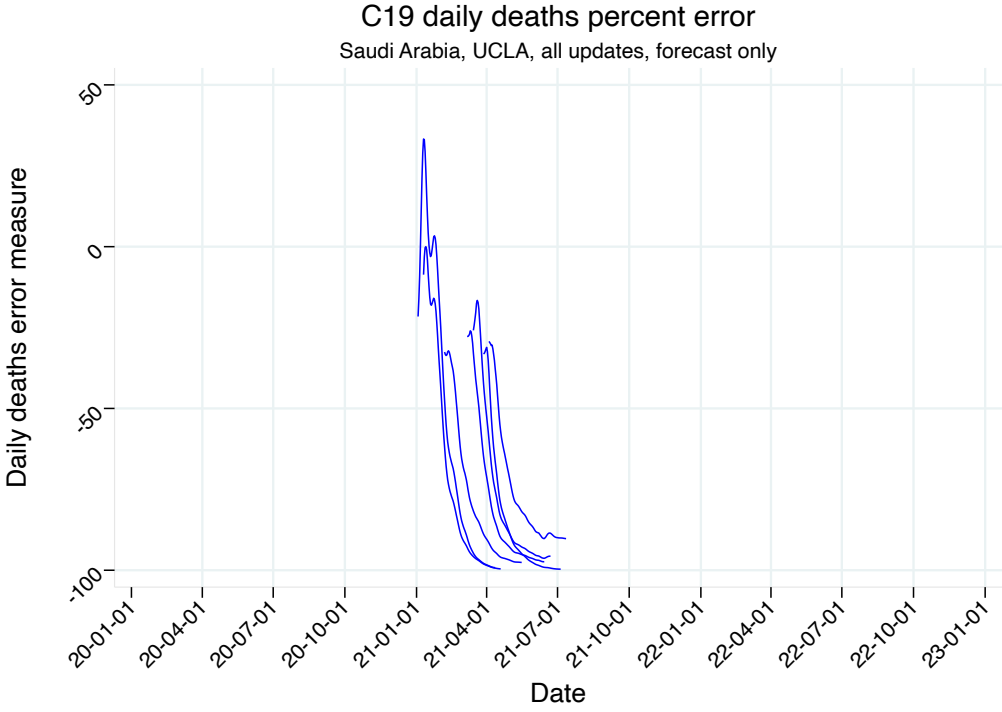
23-01-01
Date


C19 daily deaths percent error
Saudi Arabia, UCLA, all updates, forecast only
Daily deaths error measure
50
0
-50
-100
20-01-01
20-04-01
20-07-01
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21-01-01
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21-10-01
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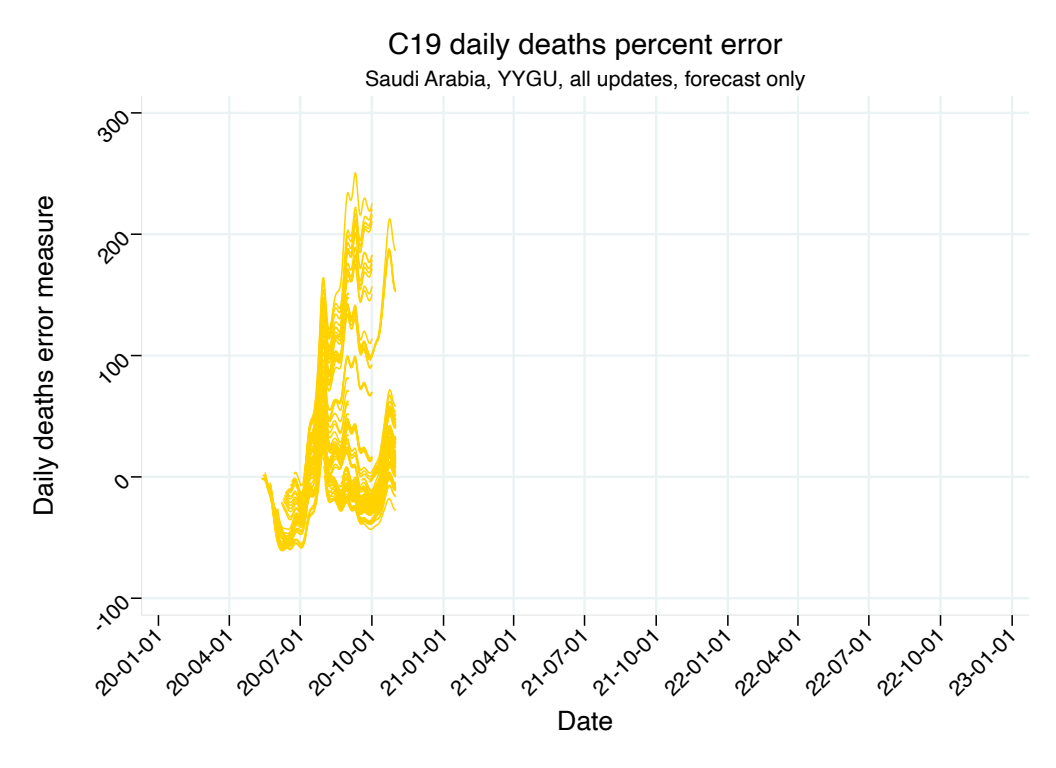
23-01-01
Date


C19 daily deaths percent error
Saudi Arabia, YYGU, all updates, forecast only
Daily deaths error measure
300
200
100
0
-100
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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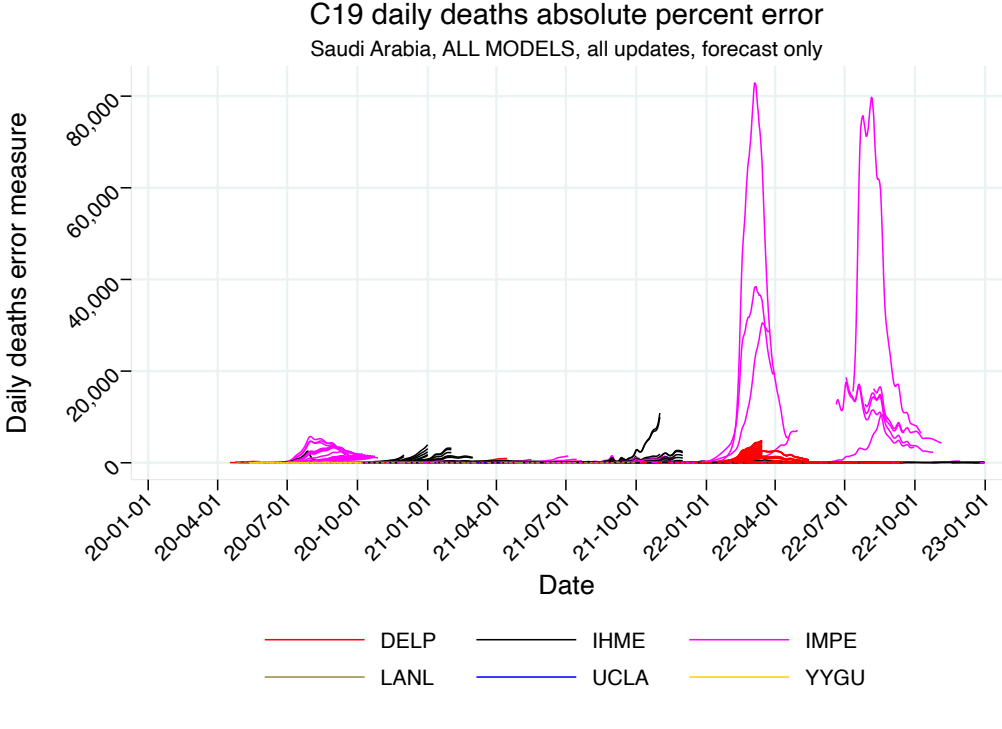
23-01-01
Date


C19 daily deaths absolute percent error
Saudi Arabia, ALL MODELS, all updates, forecast only
Daily deaths error measure
0
20,000
40,000
60,000
80,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
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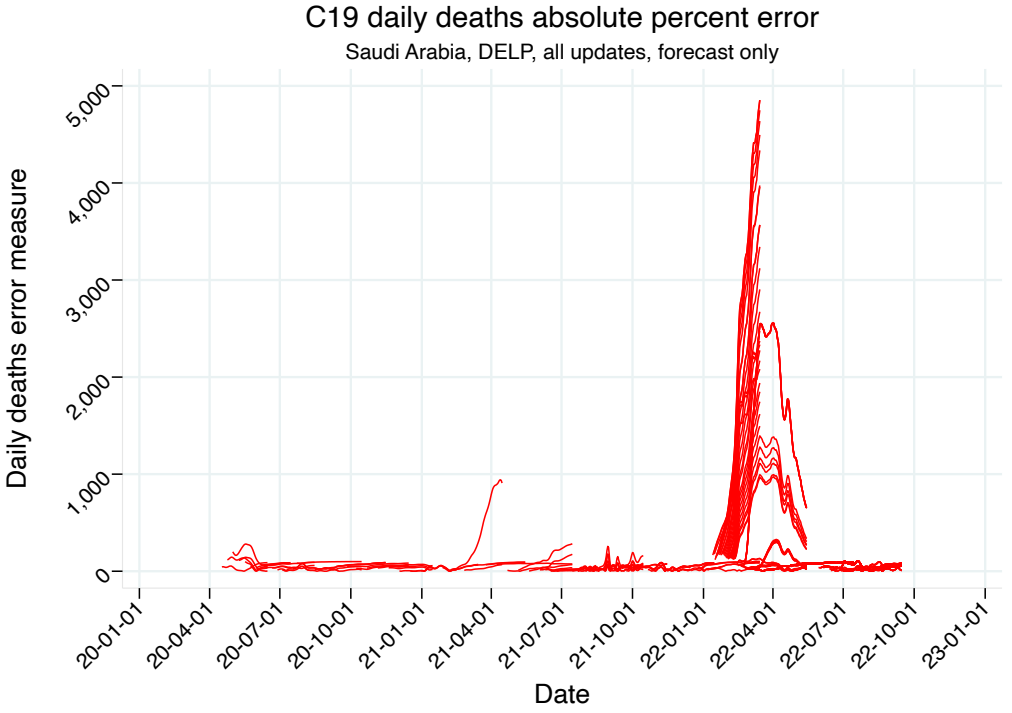
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths absolute percent error
Saudi Arabia, DELP, all updates, forecast only
Daily deaths error measure
0
1,000
2,000
3,000
4,000
5,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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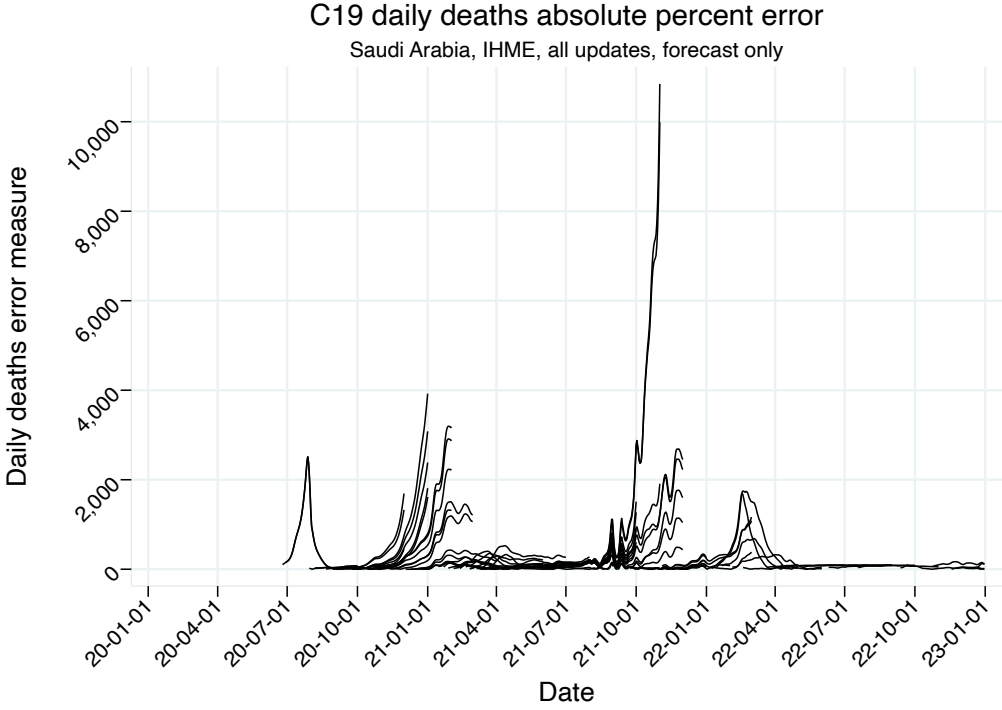
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute percent error
Saudi Arabia, IHME, all updates, forecast only
Daily deaths error measure
0
2,000
4,000
6,000
8,000
10,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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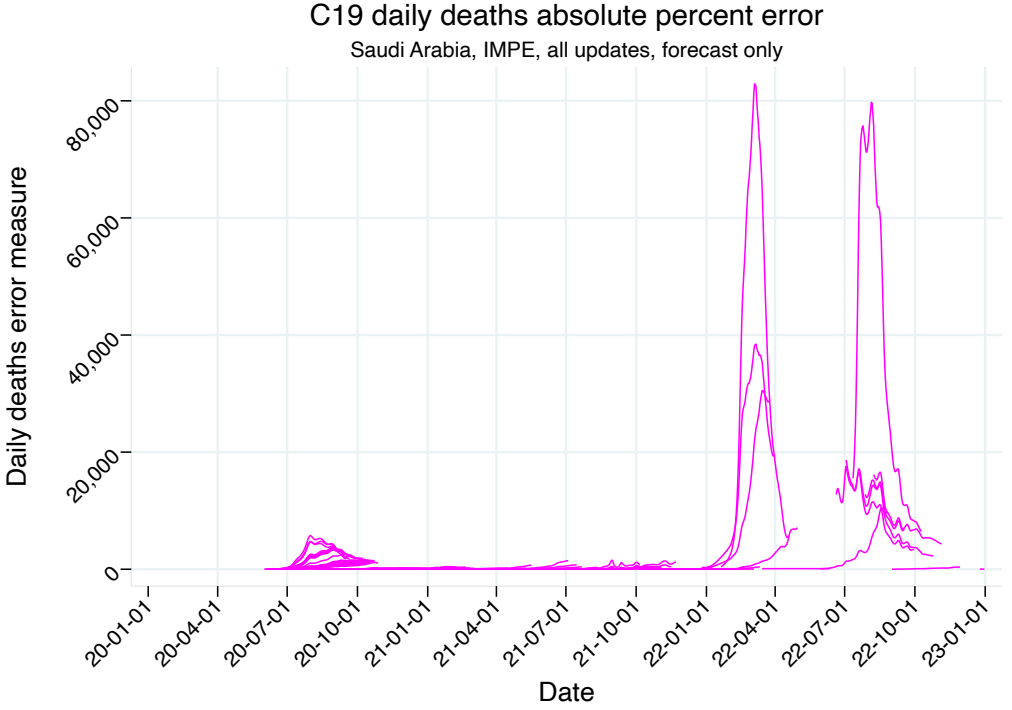
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute percent error
Saudi Arabia, IMPE, all updates, forecast only
Daily deaths error measure
80,000
60,000
40,000
20,000
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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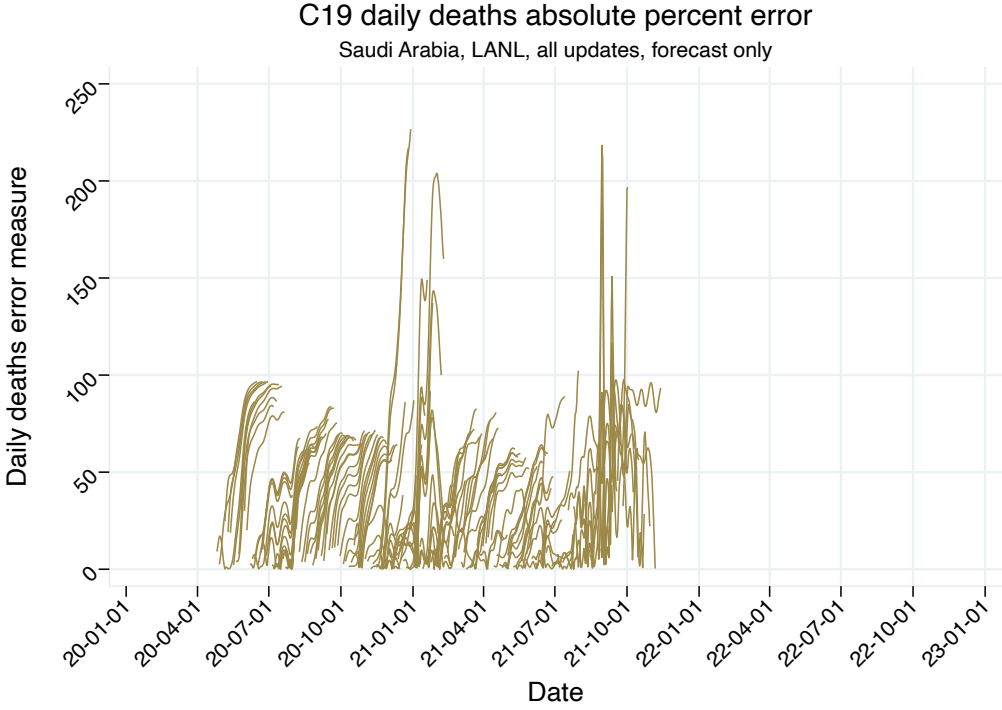
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute percent error
Saudi Arabia, LANL, all updates, forecast only
Daily deaths error measure
0
50
100
150
200
250
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
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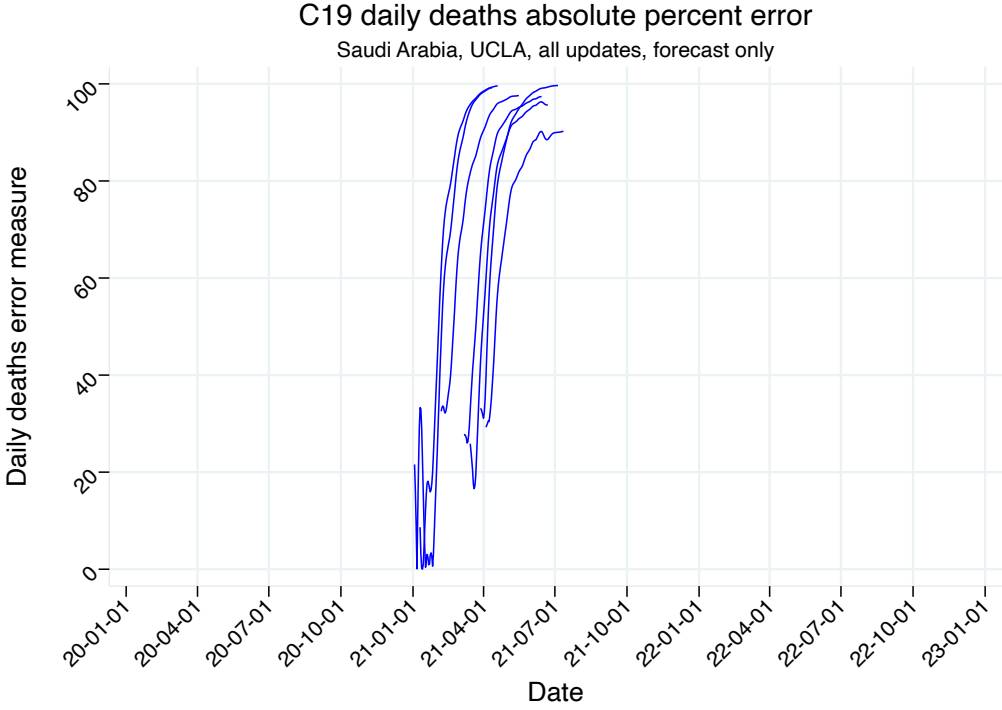
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute percent error
Saudi Arabia, UCLA, all updates, forecast only
Daily deaths error measure
0
20
40
60
80
100
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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21-07-01
21-10-01
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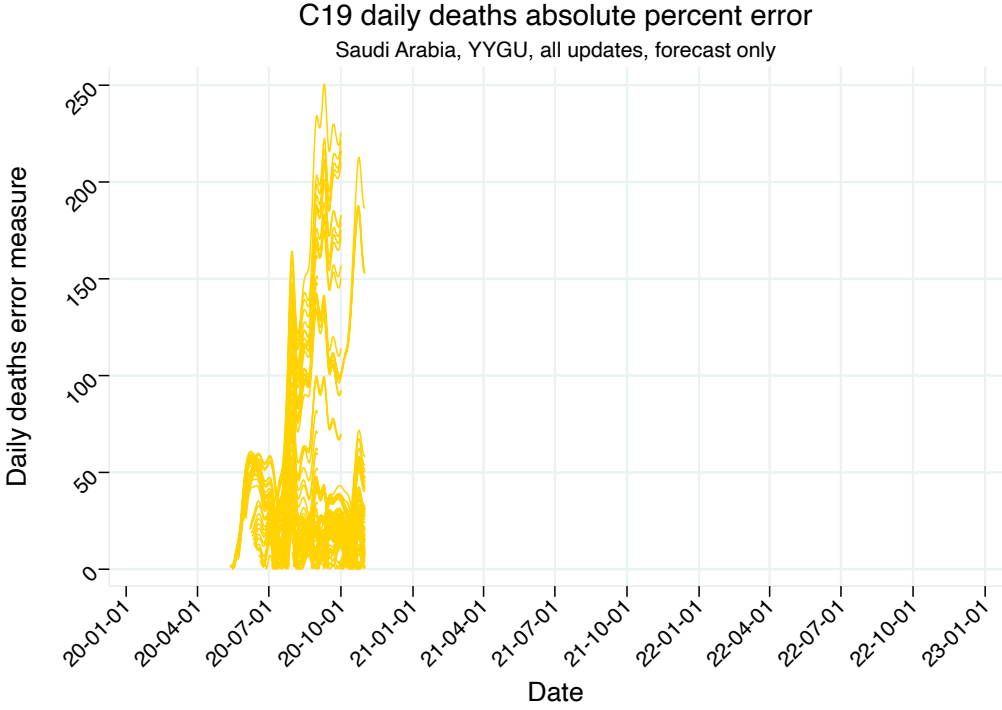
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths absolute percent error
Saudi Arabia, YYGU, all updates, forecast only
Daily deaths error measure
0
50
100
150
200
250
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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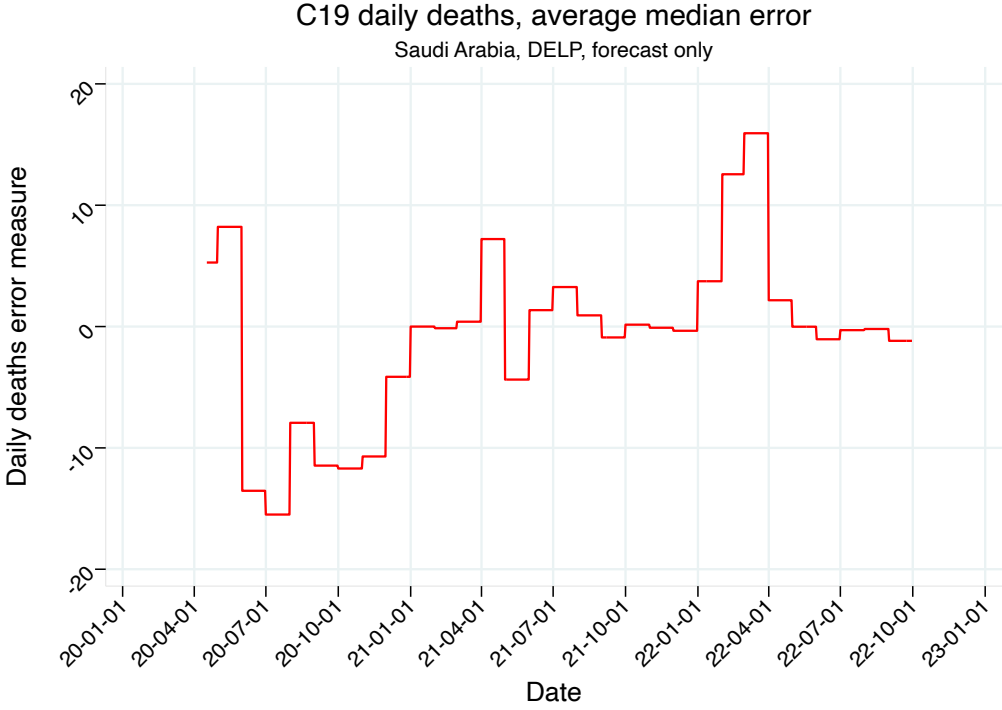
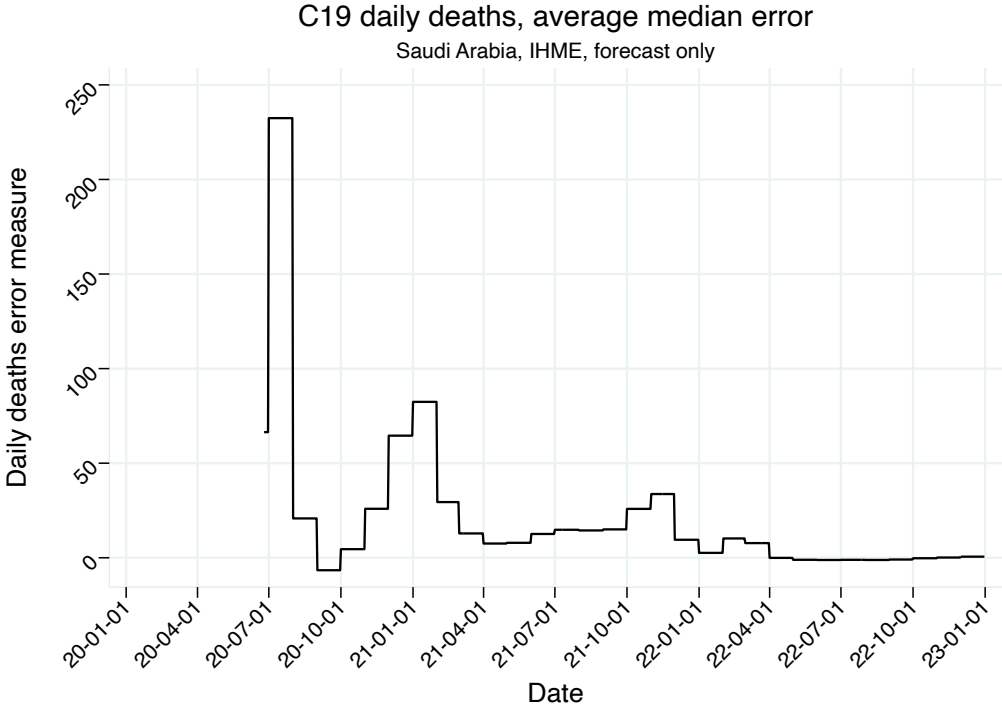
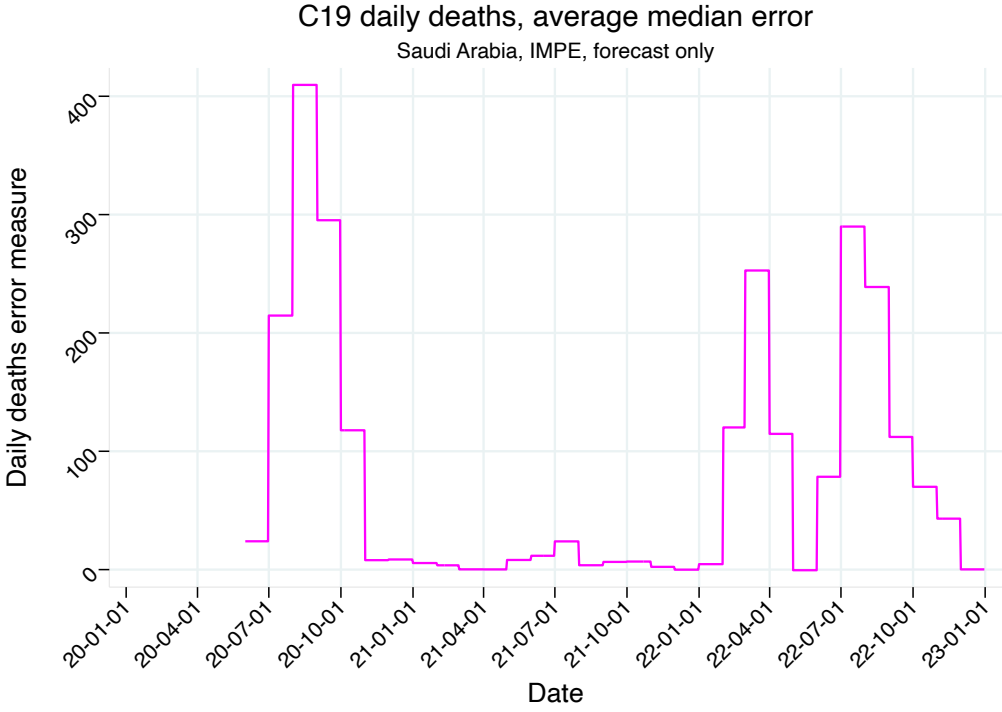
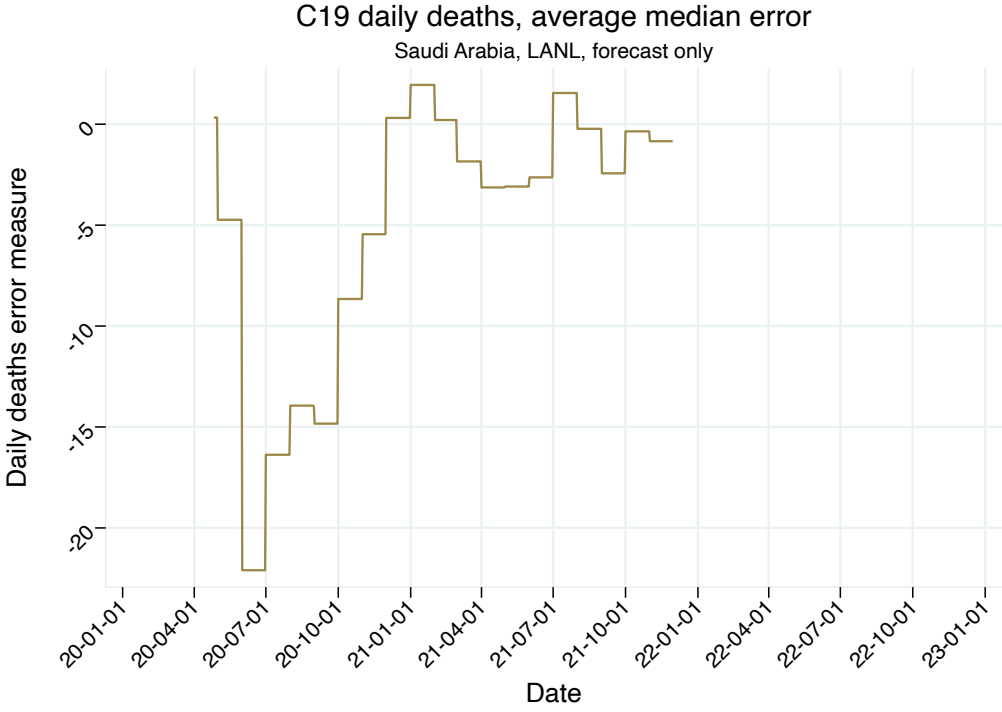
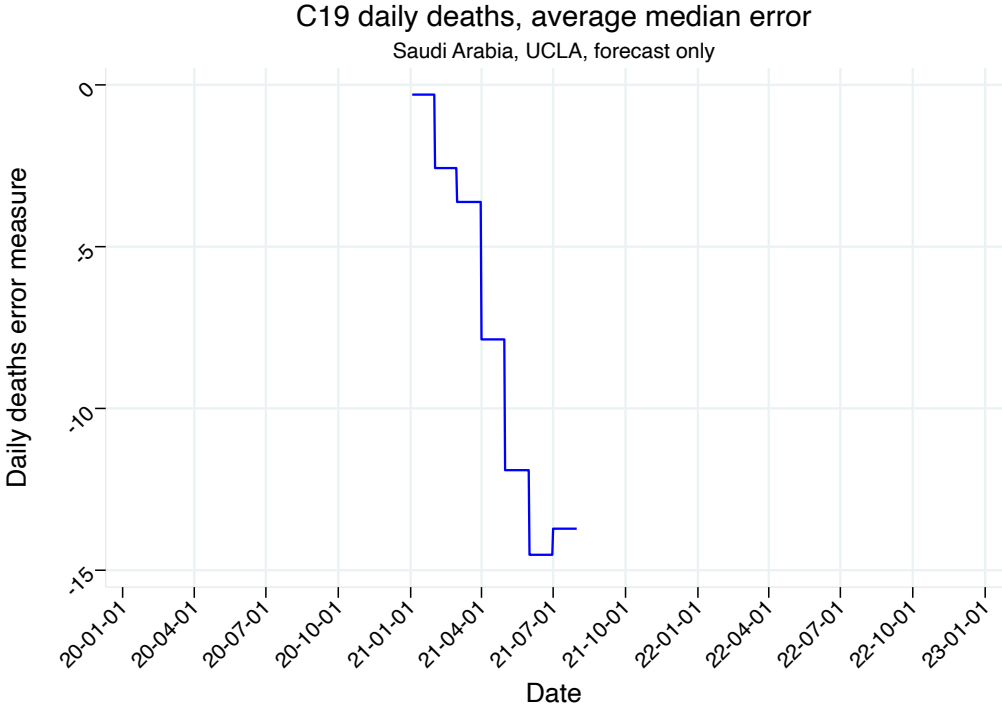
22-07-01
22-10-01
23-01-01
Date

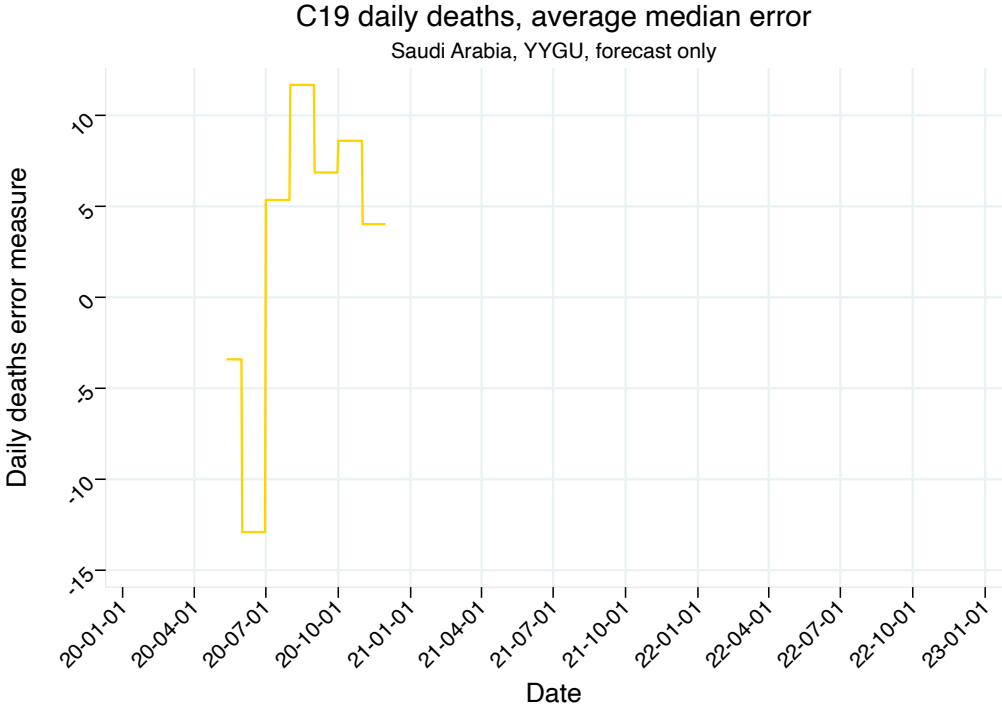

C19 daily deaths, average median error
Saudi Arabia, DELP, forecast only
Daily deaths error measure
20
10
0
-10
-20
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

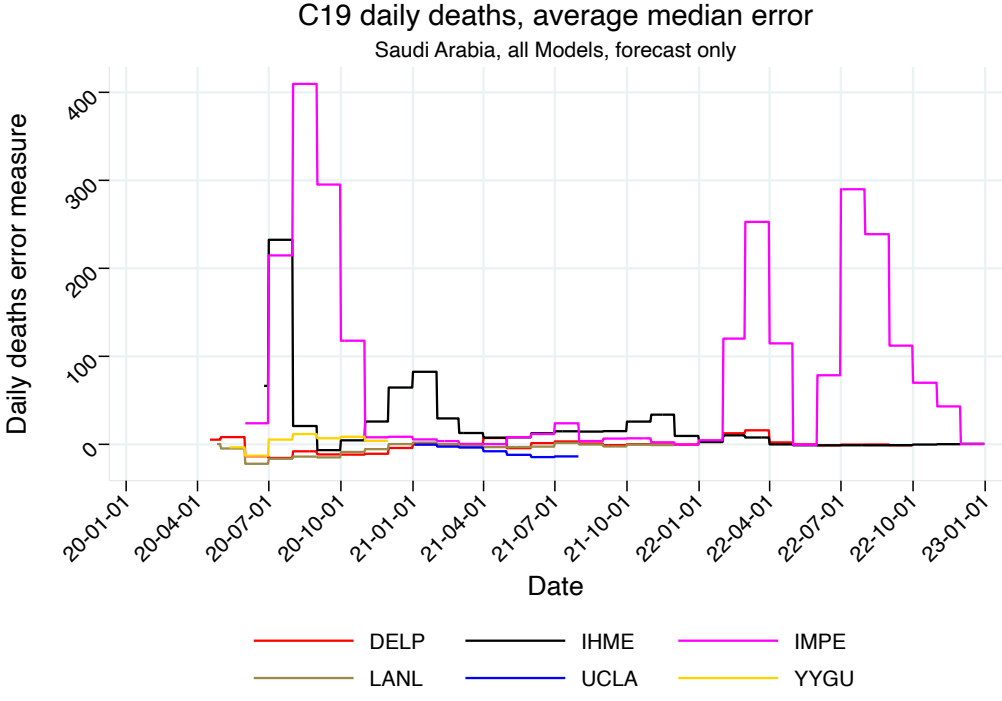

C19 daily deaths, average median error
Saudi Arabia, IHME, forecast only
Daily deaths error measure
0
50
100
150
200
250
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

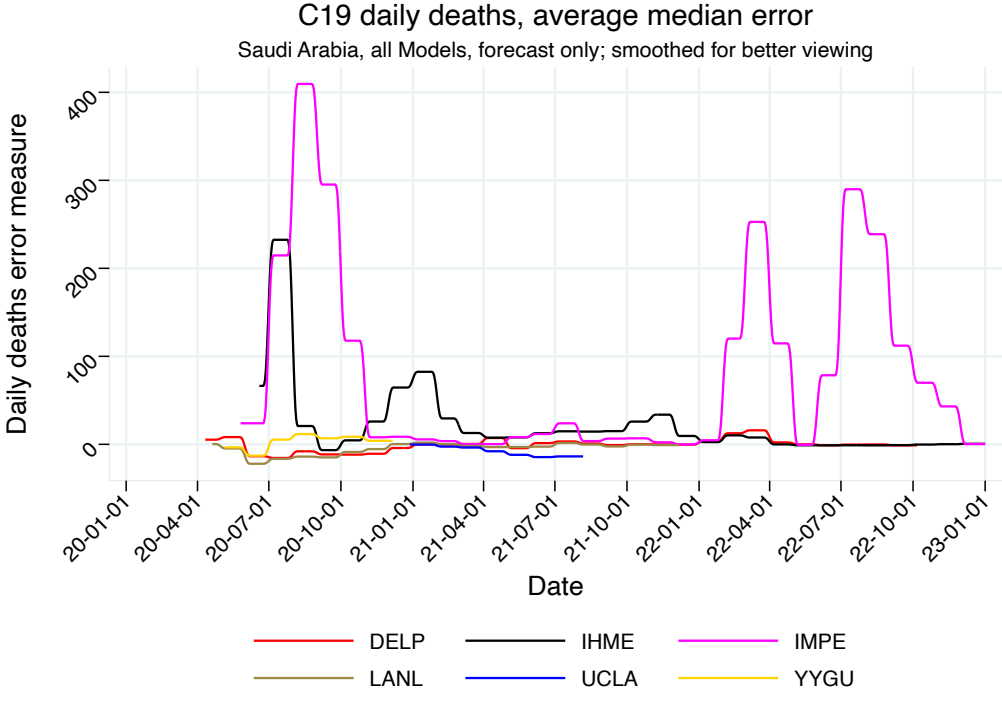

C19 daily deaths, average median error
Saudi Arabia, IMPE, forecast only
Daily deaths error measure
0
100
200
300
400
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

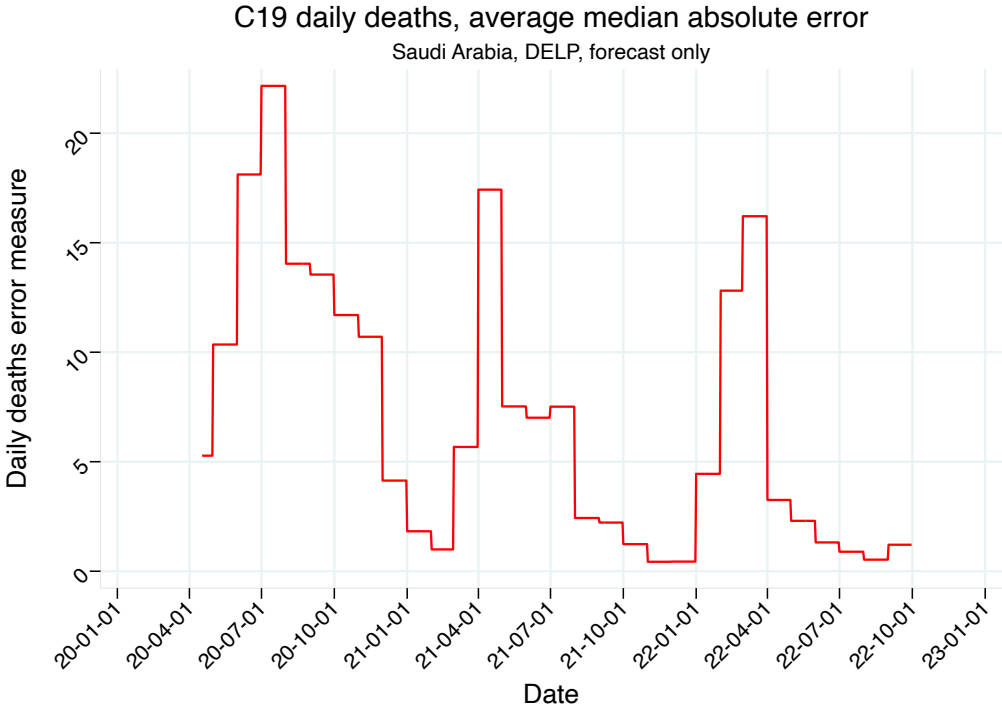

C19 daily deaths, average median error
Saudi Arabia, LANL, forecast only
Daily deaths error measure
0
-5
-10
-15
-20
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

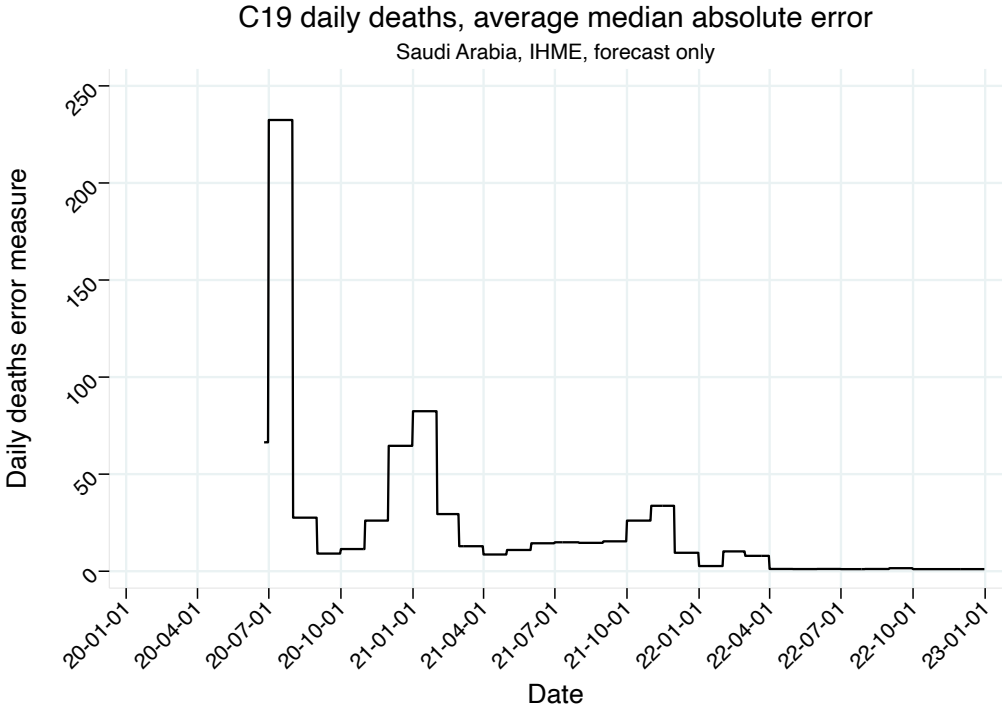

C19 daily deaths, average median error
Saudi Arabia, UCLA, forecast only
Daily deaths error measure
0
-5
-10
-15
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

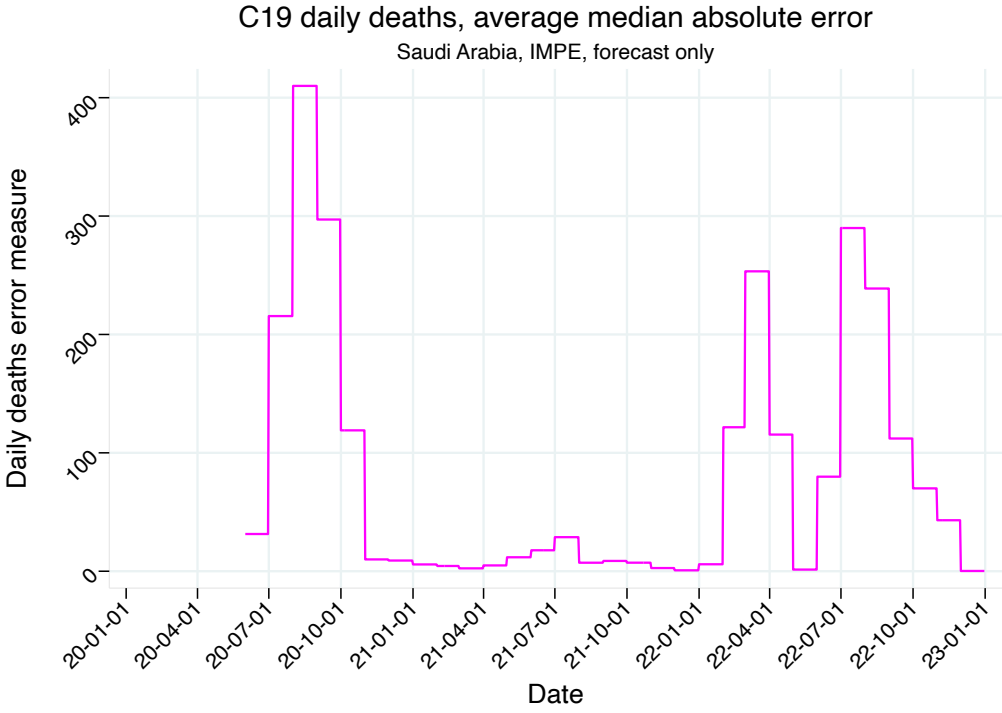

C19 daily deaths, average median error
Saudi Arabia, YYGU, forecast only
Daily deaths error measure
10
5
0
-5
-10
-15
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

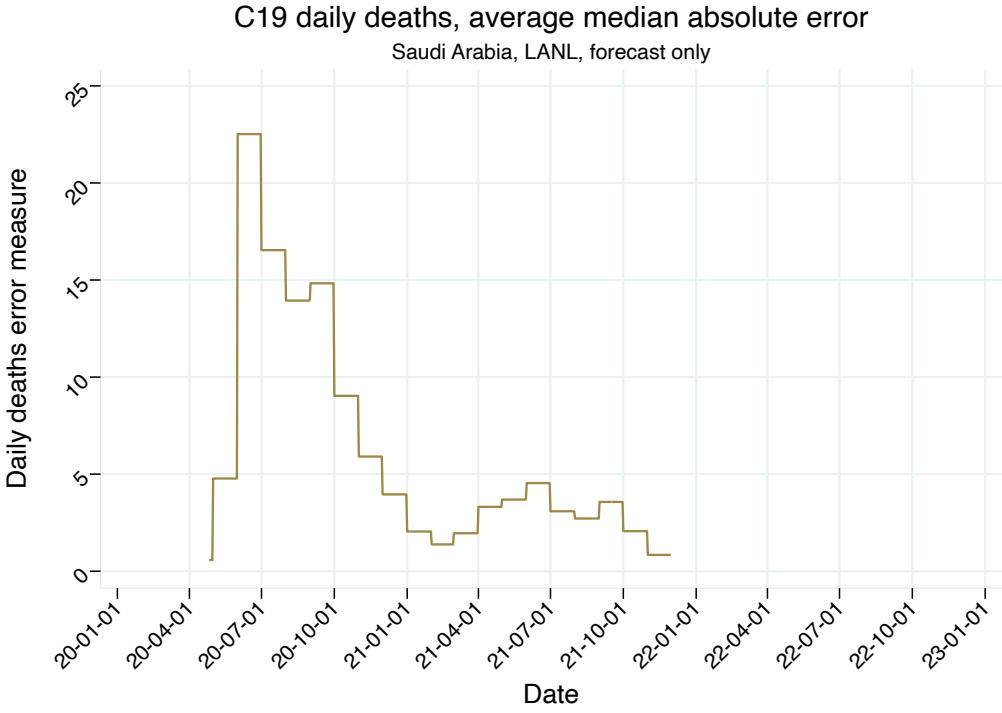

C19 daily deaths, average median error
Saudi Arabia, all Models, forecast only
Daily deaths error measure
0
100
200
300
400
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, average median error
Saudi Arabia, all Models, forecast only; smoothed for better viewing
Daily deaths error measure
0
100
200
300
400
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, average median absolute error
Saudi Arabia, DELP, forecast only
Daily deaths error measure
0
5
10
15
20
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute error
Saudi Arabia, IHME, forecast only
Daily deaths error measure
0
50
100
150
200
250
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute error
Saudi Arabia, IMPE, forecast only
Daily deaths error measure
0
100
200
300
400
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute error
Saudi Arabia, LANL, forecast only
Daily deaths error measure
0
5
10
15
20
25
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
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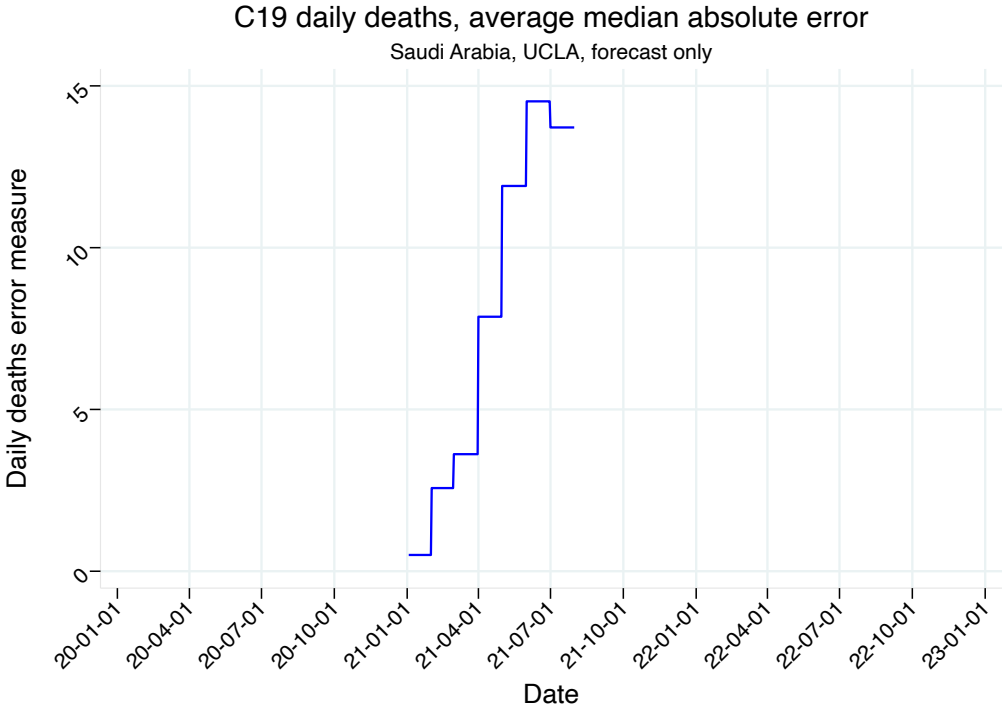
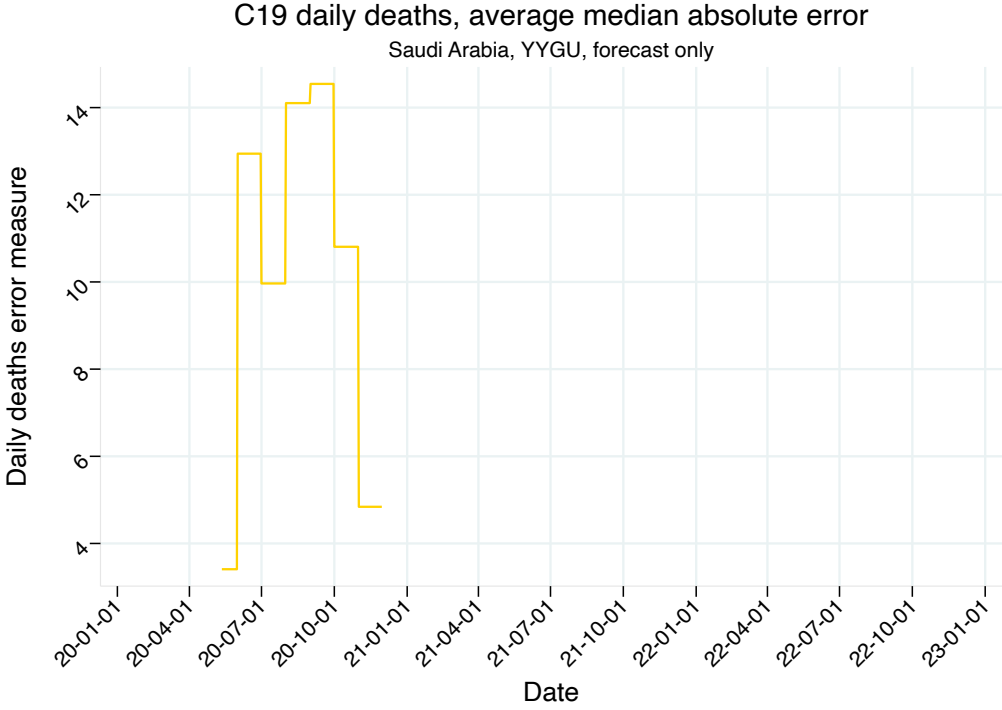
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute error
Saudi Arabia, UCLA, forecast only
Daily deaths error measure
0
5
10
15
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute error
Saudi Arabia, YYGU, forecast only
Daily deaths error measure
4
6
8
10
12
14
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
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22-04-01
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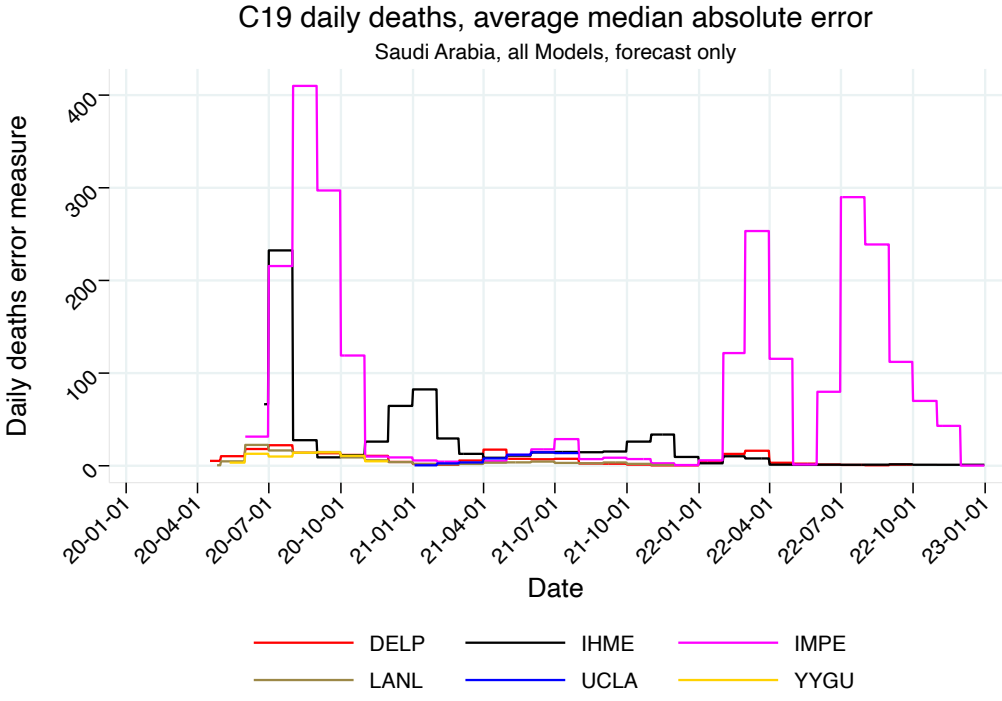
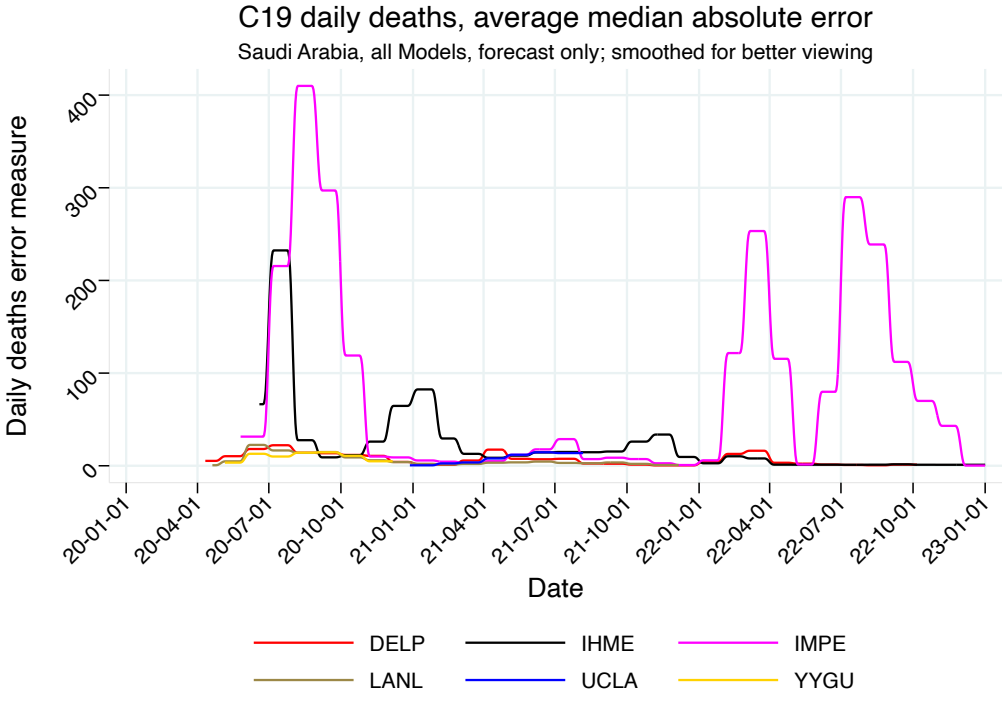
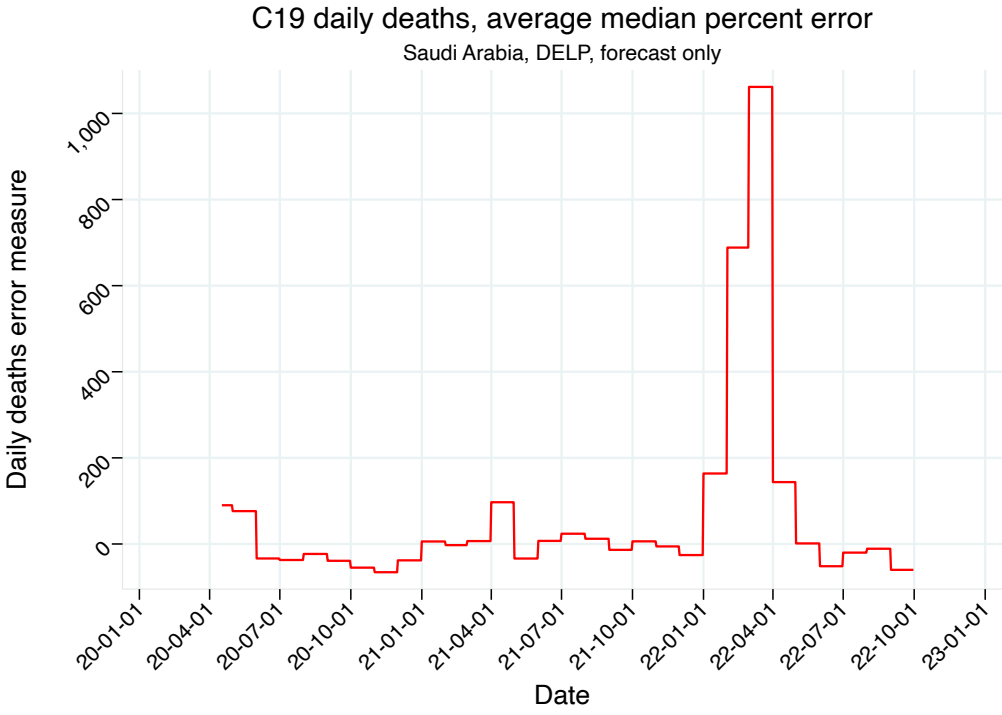
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute error
Saudi Arabia, all Models, forecast only
Daily deaths error measure
0
100
200
300
400
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, average median absolute error
Saudi Arabia, all Models, forecast only; smoothed for better viewing
Daily deaths error measure
0
100
200
300
400
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, average median percent error
Saudi Arabia, DELP, forecast only
Daily deaths error measure
1,000
800
600
400
200
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
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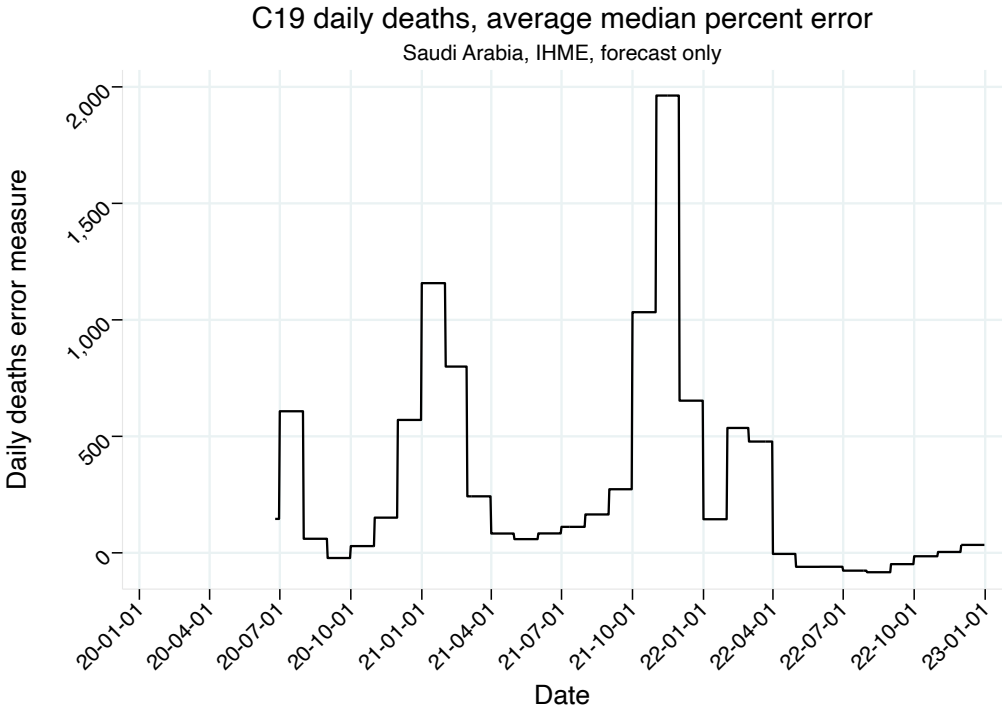
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median percent error
Saudi Arabia, IHME, forecast only
Daily deaths error measure
2,000
1,500
1,000
500
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
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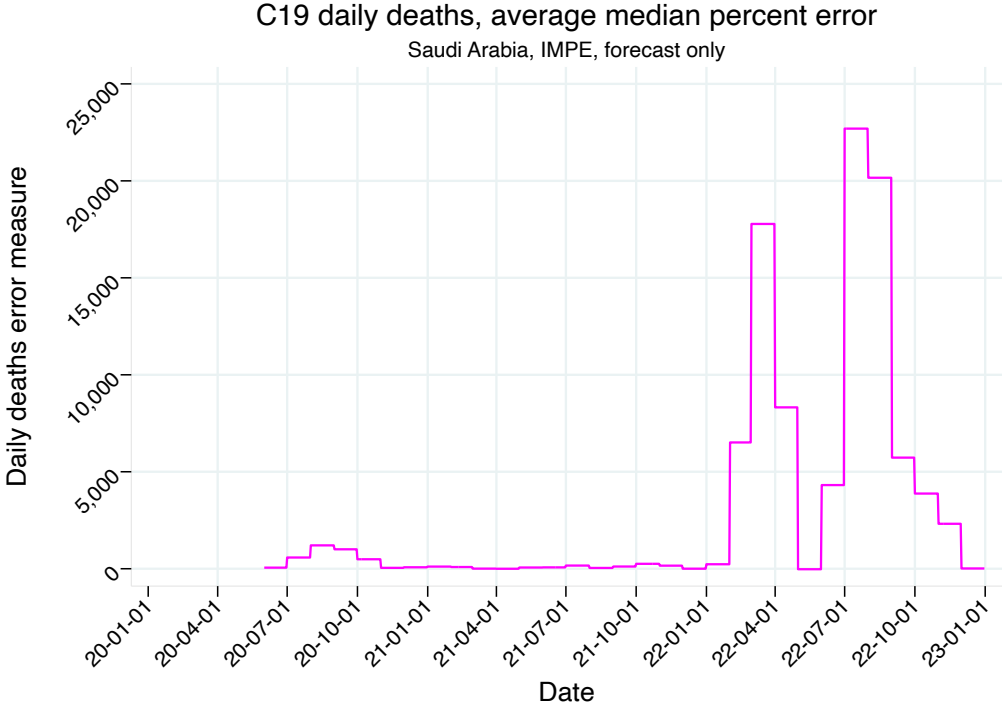
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median percent error
Saudi Arabia, IMPE, forecast only
Daily deaths error measure
25,000
20,000
15,000
10,000
5,000
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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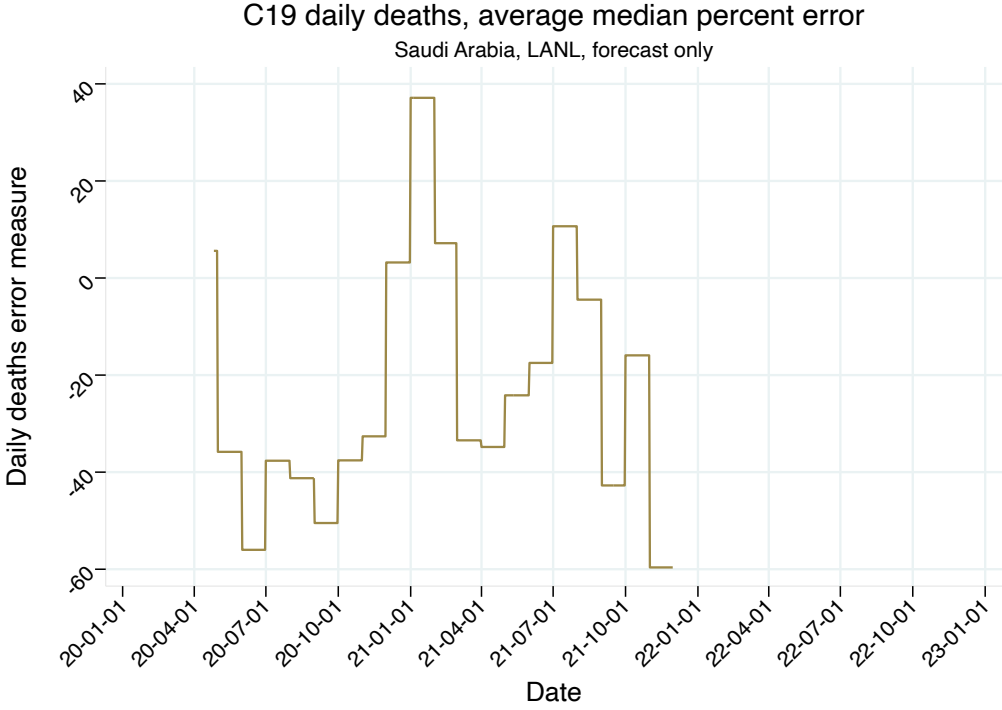
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median percent error
Saudi Arabia, LANL, forecast only
Daily deaths error measure
40
20
0
-20
-40
-60
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
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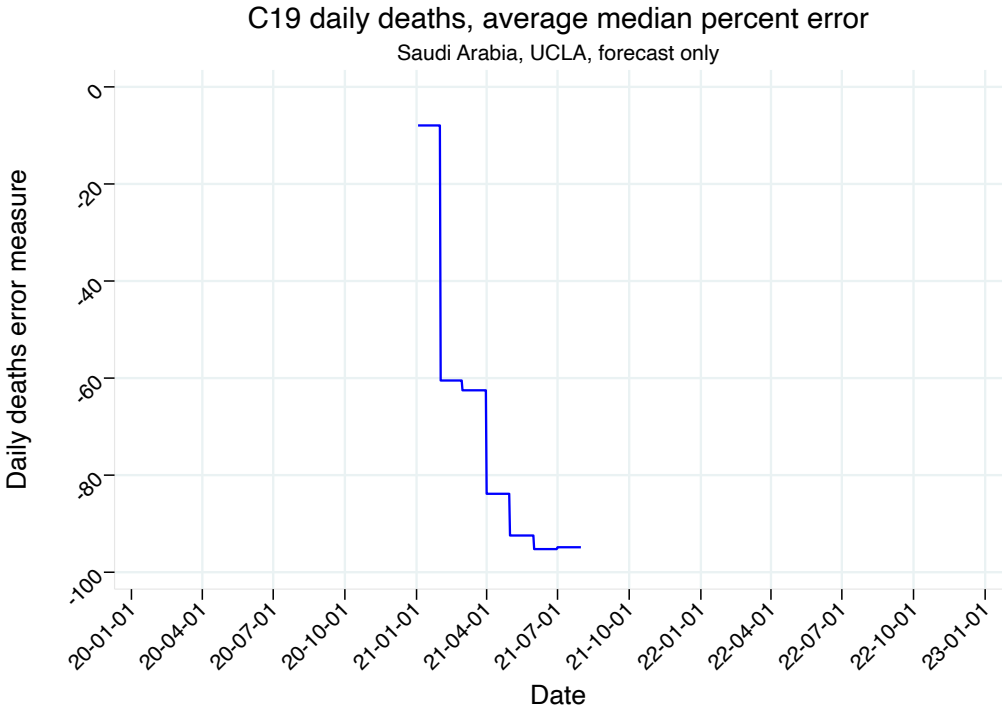
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median percent error
Saudi Arabia, UCLA, forecast only
Daily deaths error measure
0
-20
-40
-60
-80
-100
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
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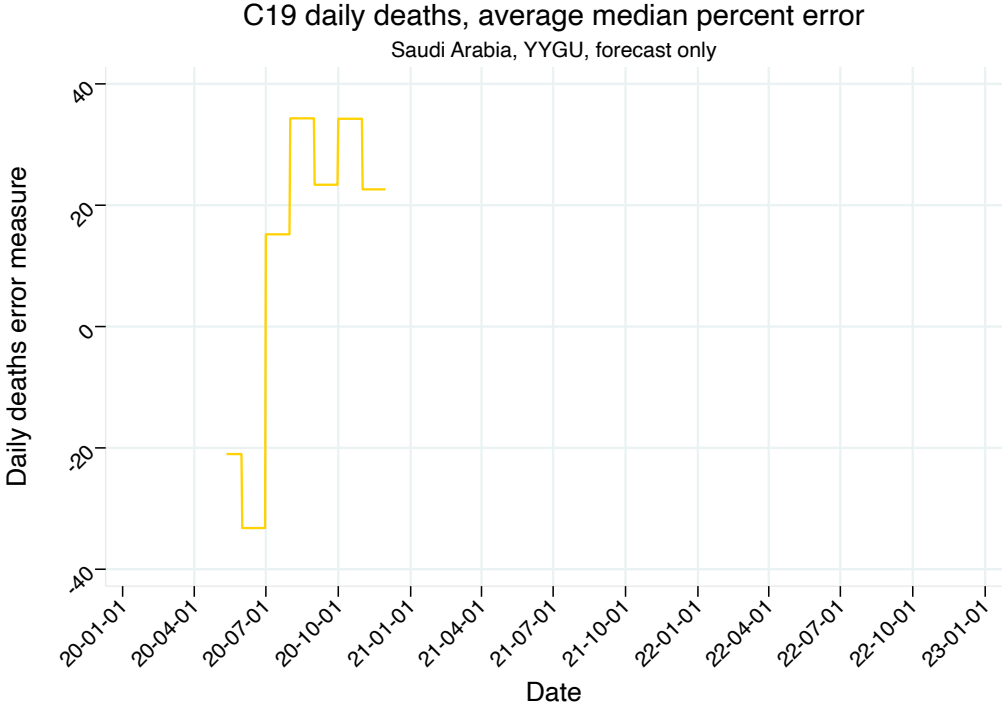
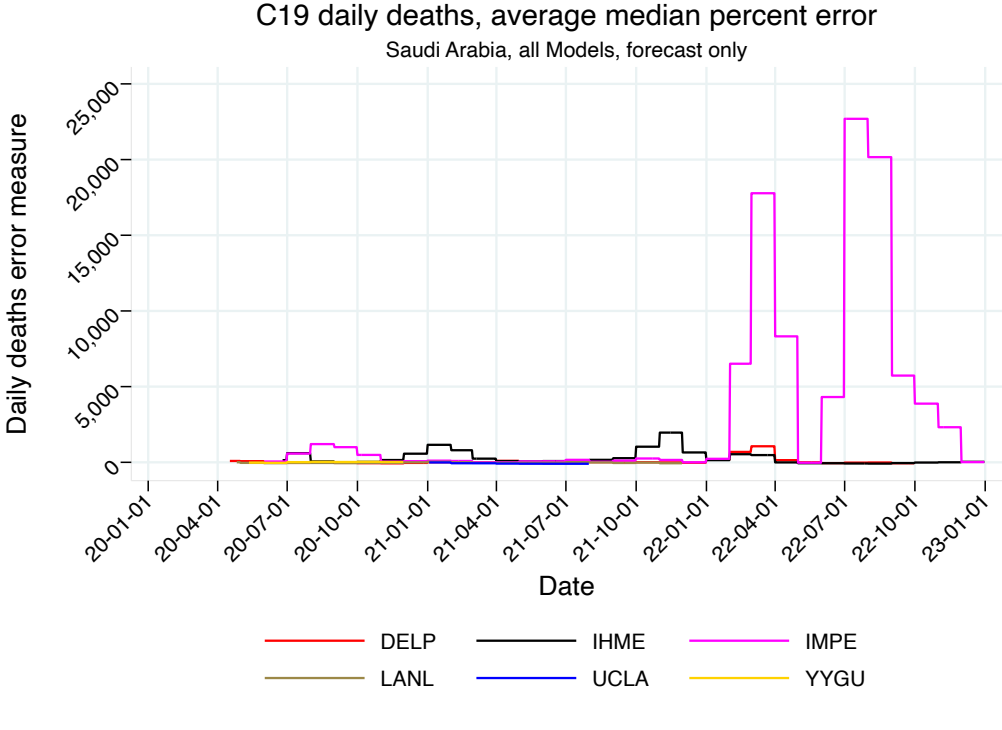
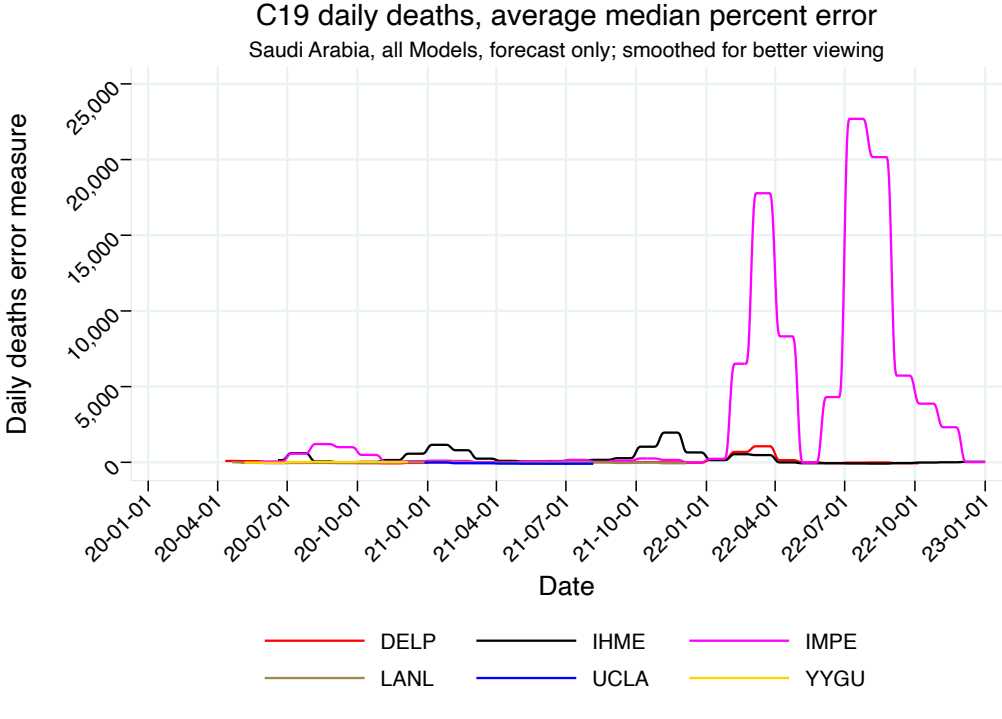
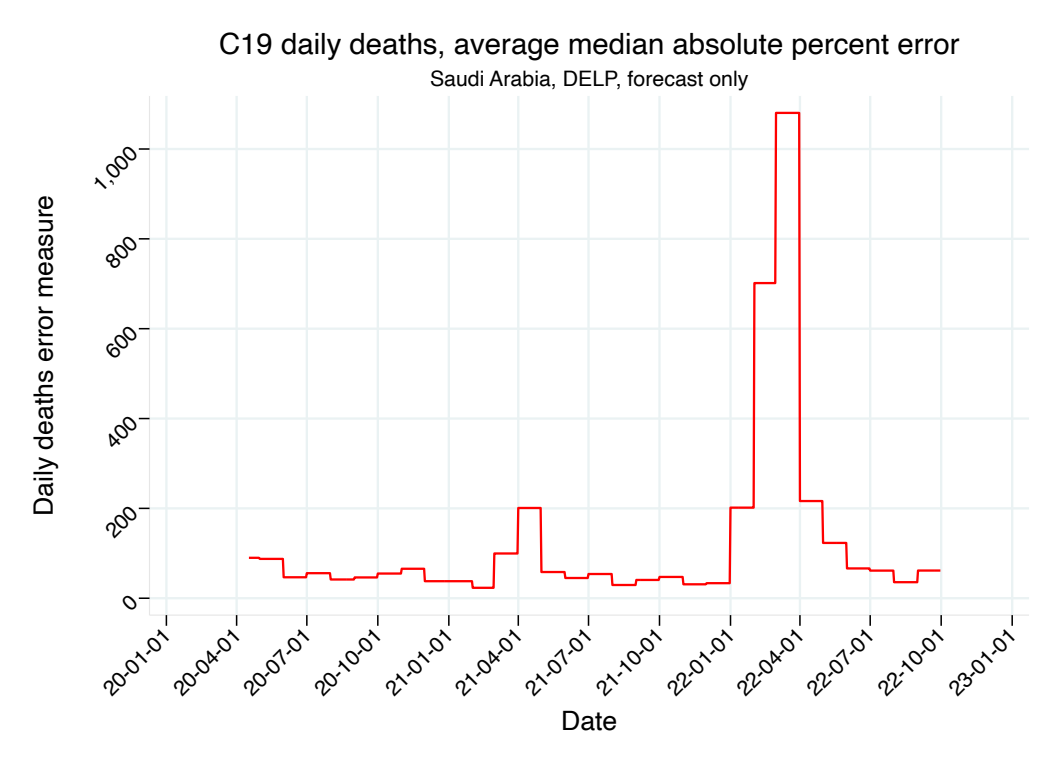
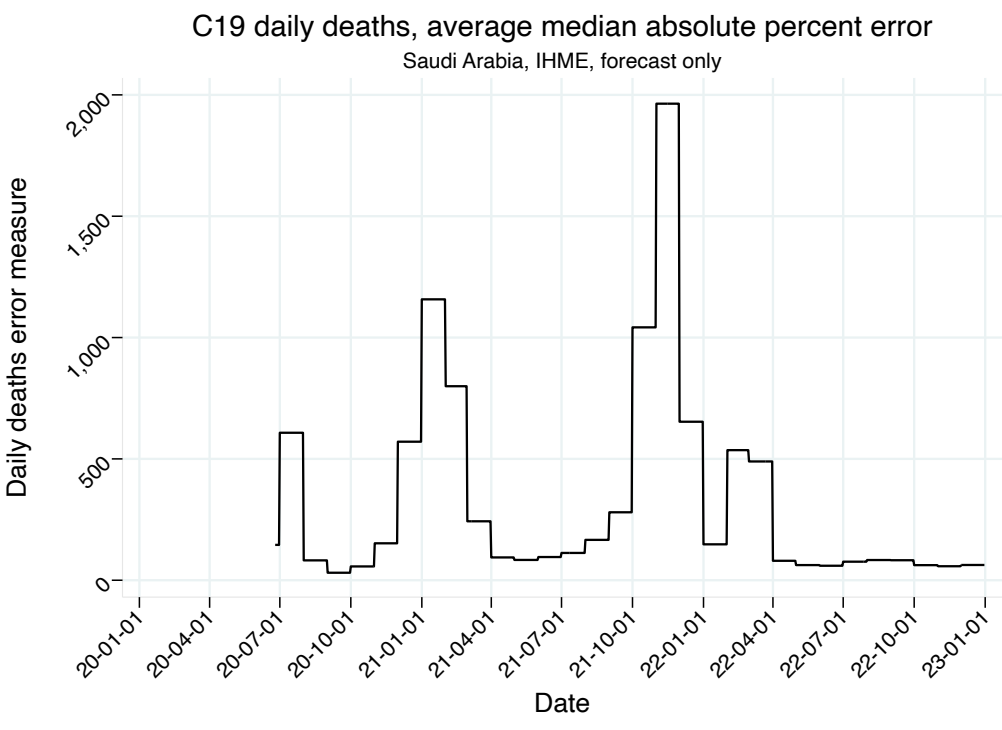
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

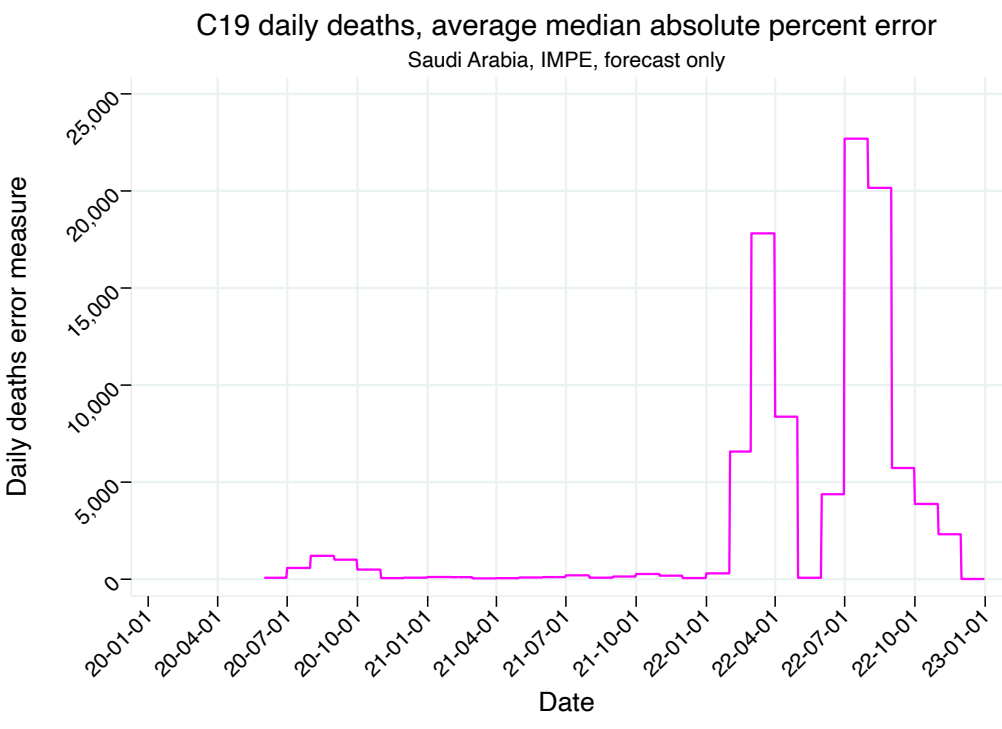

C19 daily deaths, average median percent error
Saudi Arabia, YYGU, forecast only
Daily deaths error measure
40
20
0
-20
-40
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

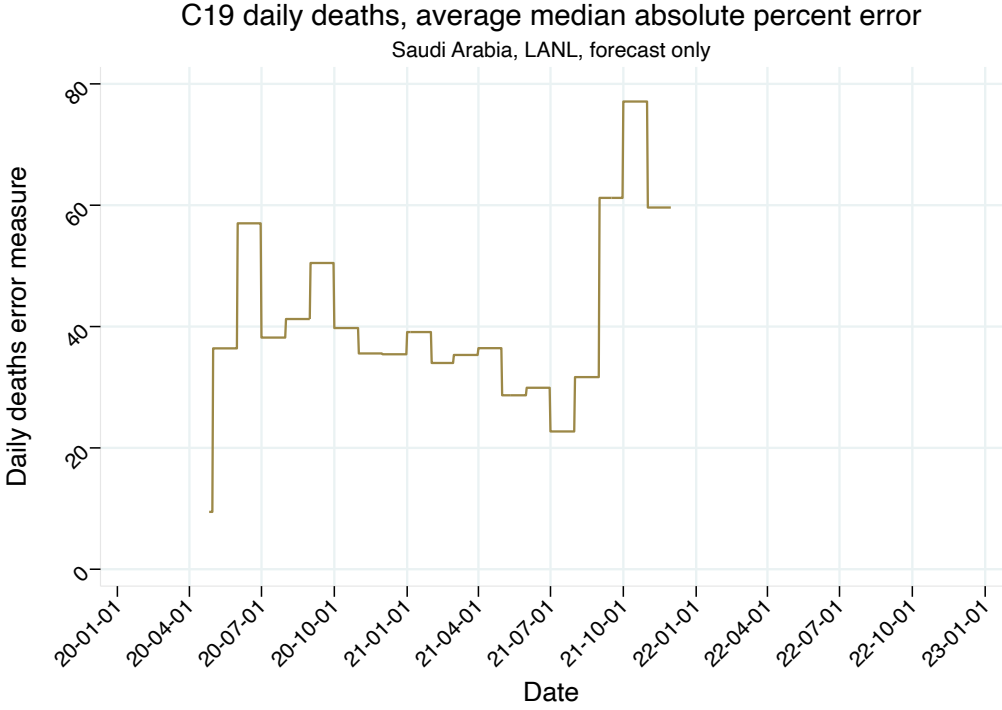

C19 daily deaths, average median percent error
Saudi Arabia, all Models, forecast only
Daily deaths error measure
25,000
20,000
15,000
10,000
5,000
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU

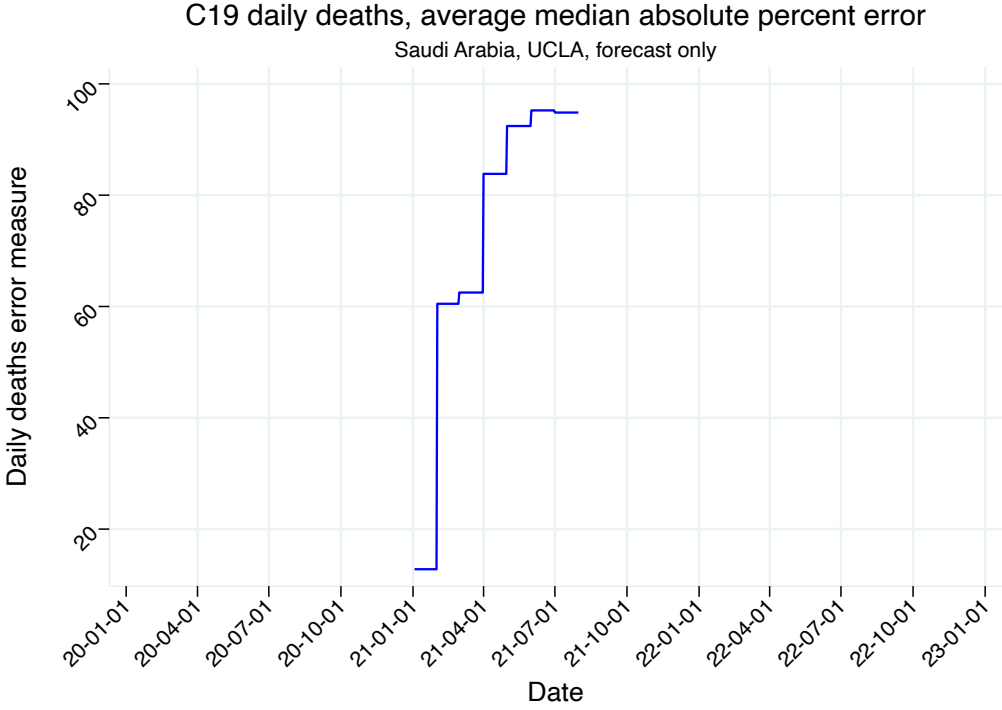

C19 daily deaths, average median percent error
Saudi Arabia, all Models, forecast only; smoothed for better viewing
Daily deaths error measure
0
5,000
10,000
15,000
20,000
25,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, average median absolute percent error
Saudi Arabia, DELP, forecast only
Daily deaths error measure
0
200
400
600
800
1,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute percent error
Saudi Arabia, IHME, forecast only
Daily deaths error measure
0
500
1,000
1,500
2,000
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute percent error
Saudi Arabia, IMPE, forecast only
Daily deaths error measure
25,000
20,000
15,000
10,000
5,000
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute percent error
Saudi Arabia, LANL, forecast only
Daily deaths error measure
0
20
40
60
80
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date


C19 daily deaths, average median absolute percent error
Saudi Arabia, UCLA, forecast only
Daily deaths error measure
100
80
60
40
20
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
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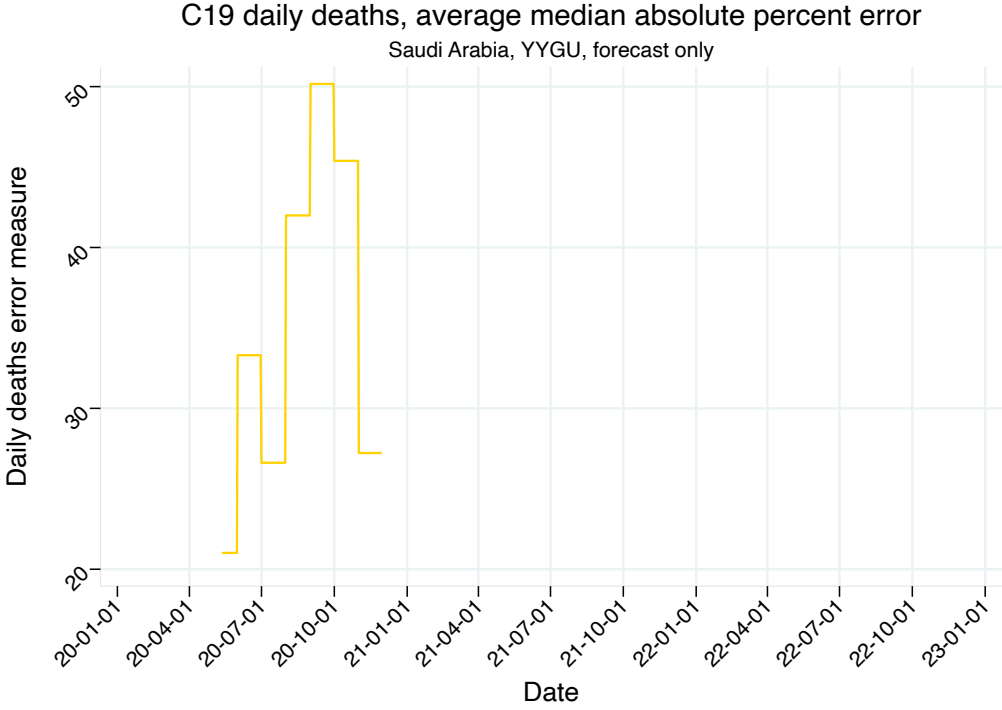
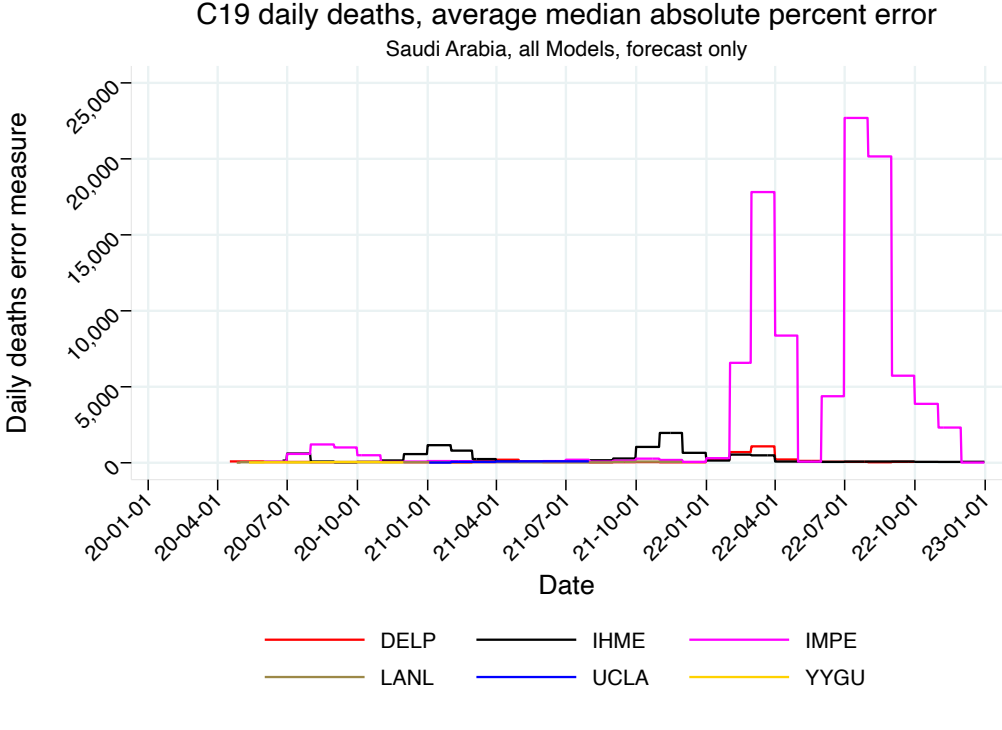
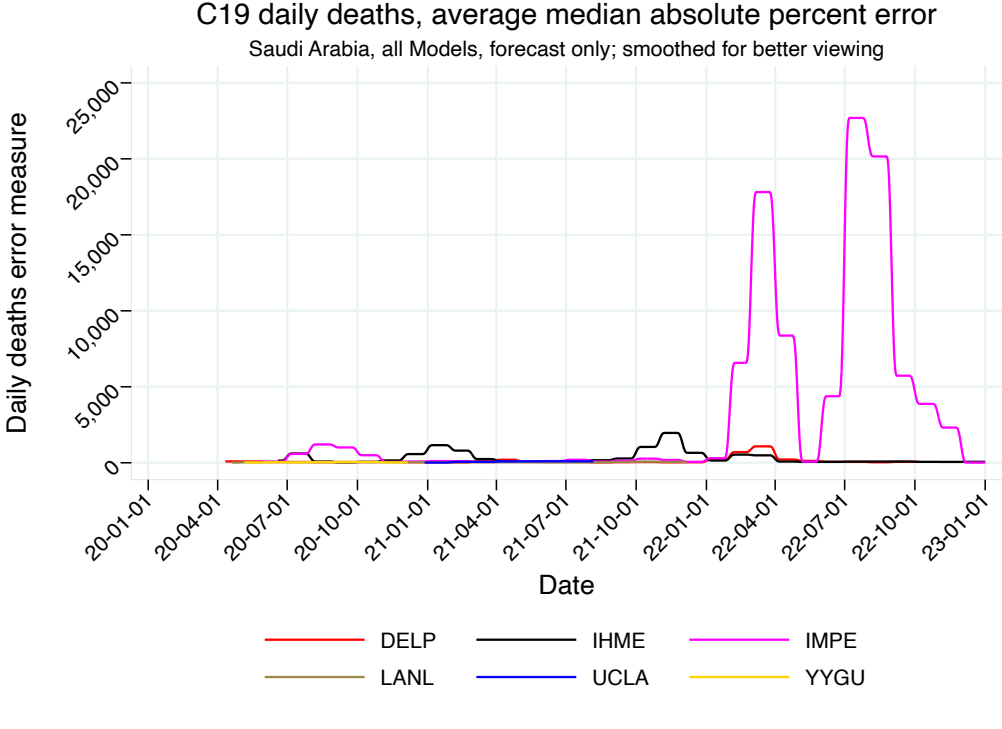
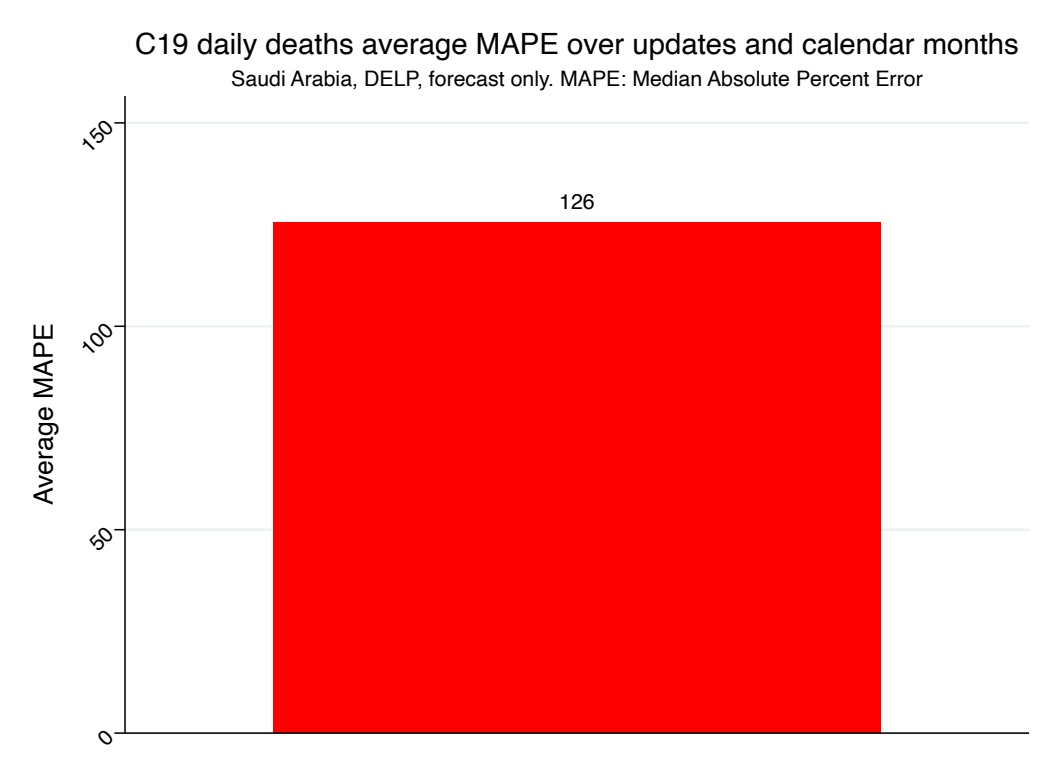
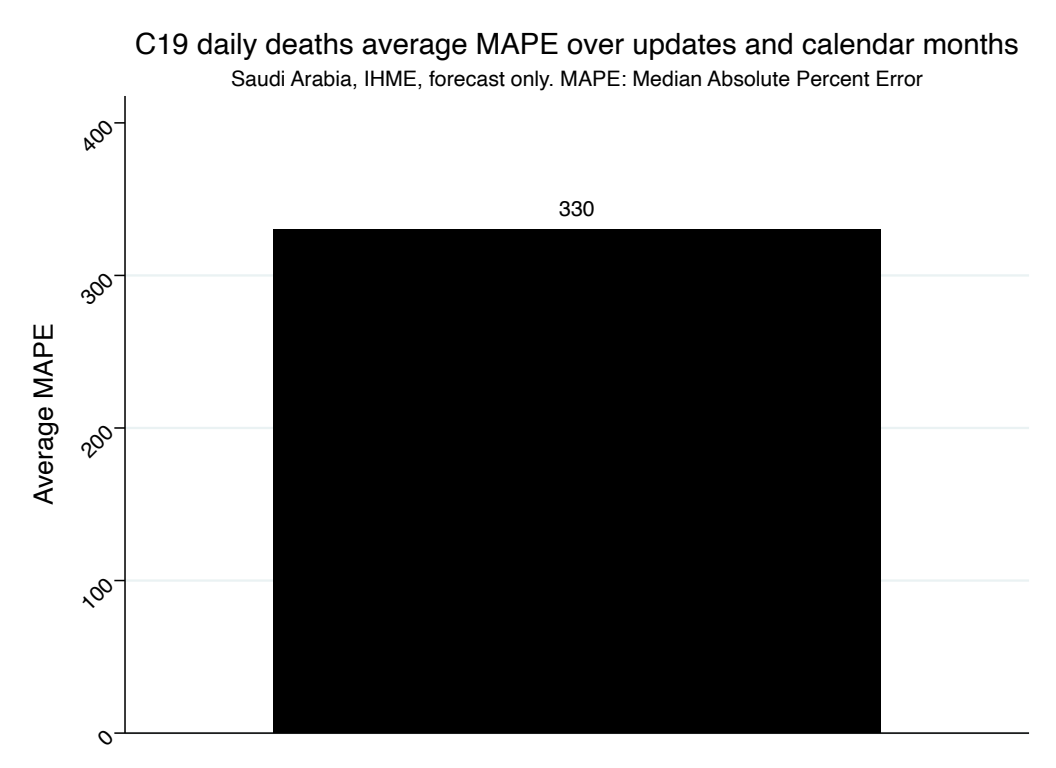
22-10-01
23-01-01
Date

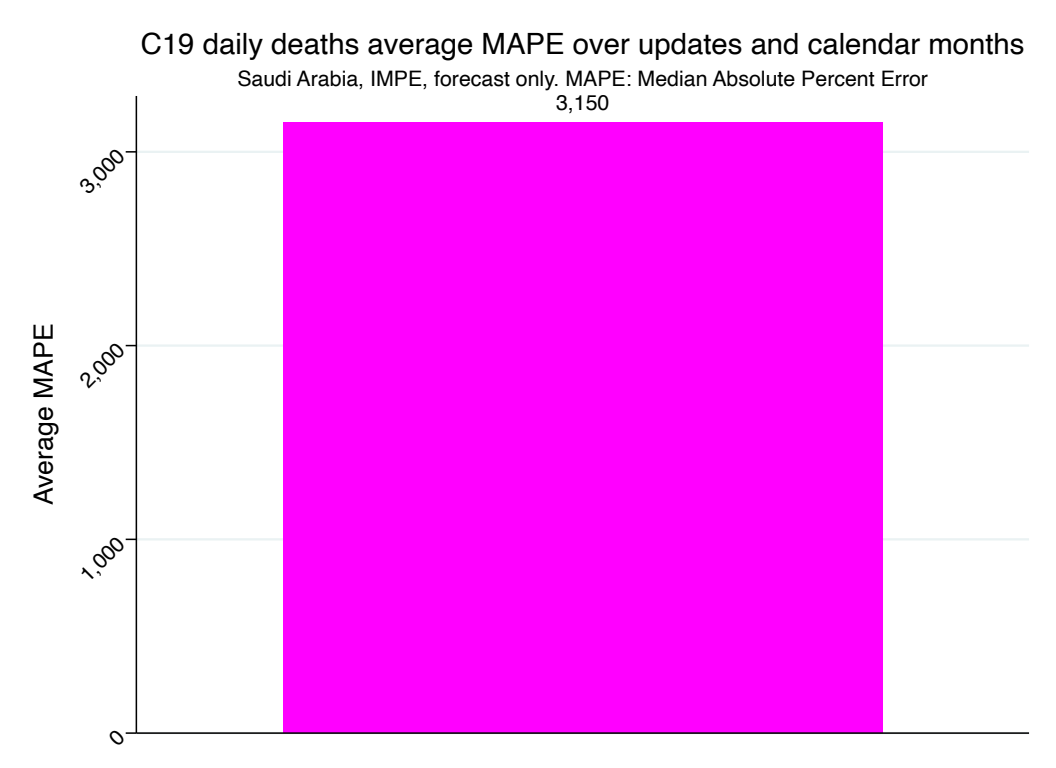

C19 daily deaths, average median absolute percent error
Saudi Arabia, YYGU, forecast only
Daily deaths error measure
50
40
30
20
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date

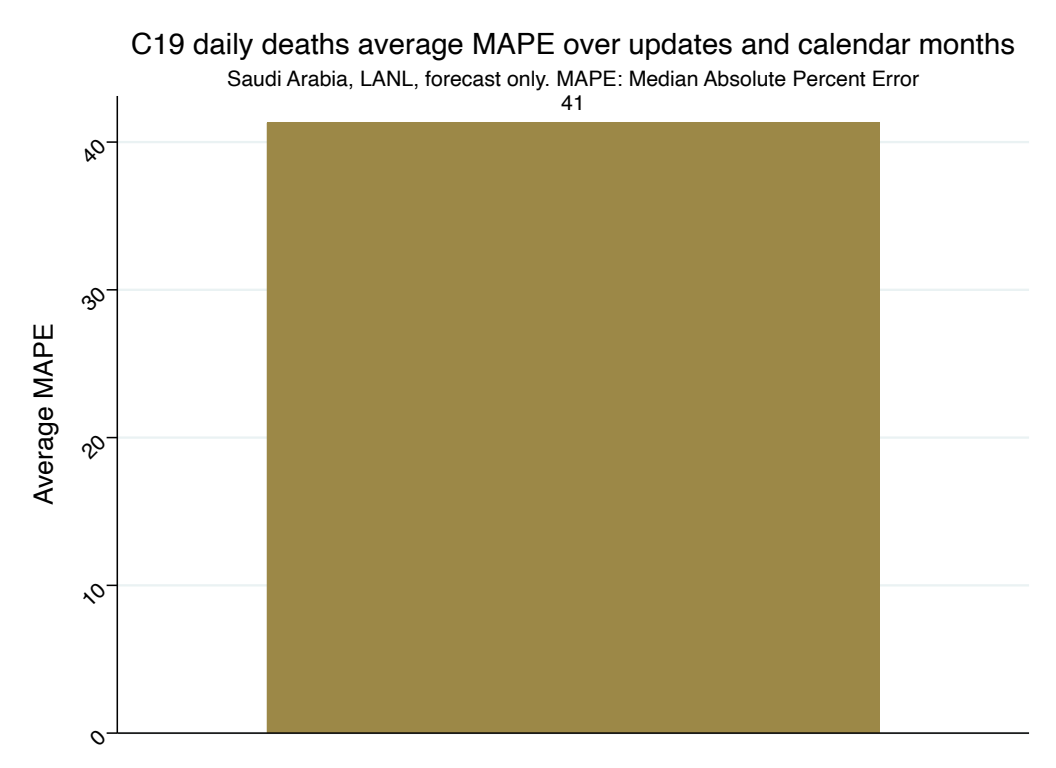

C19 daily deaths, average median absolute percent error
Saudi Arabia, all Models, forecast only
Daily deaths error measure
25,000
20,000
15,000
10,000
5,000
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU

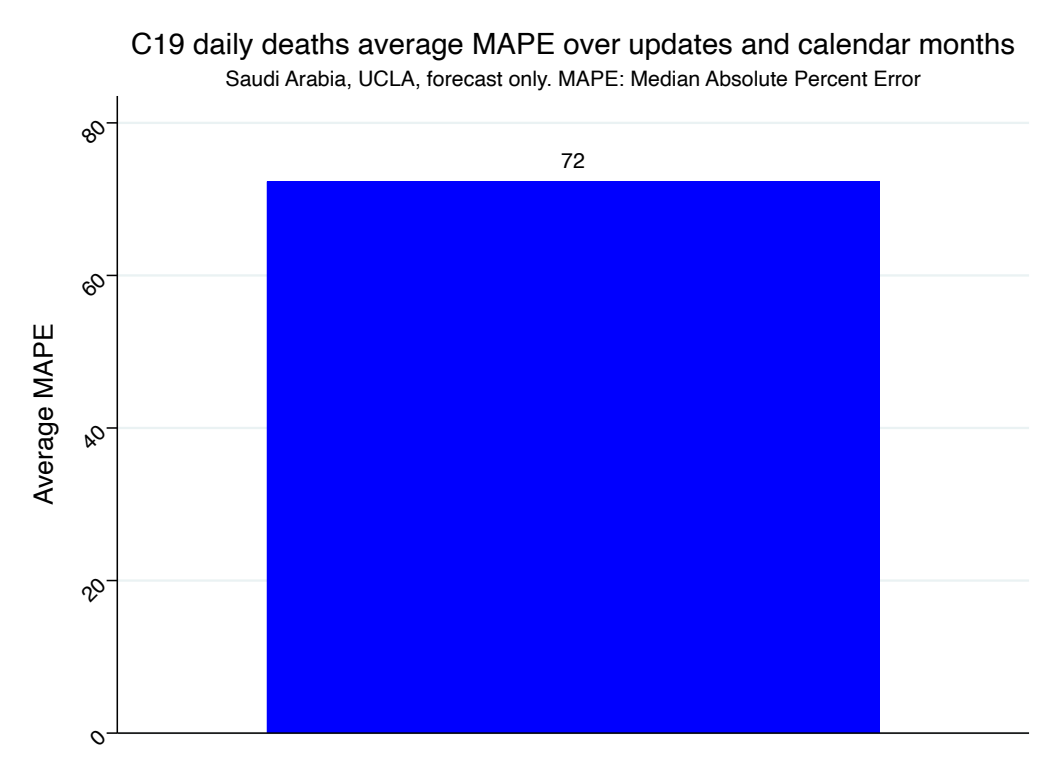

C19 daily deaths, average median absolute percent error
Saudi Arabia, all Models, forecast only; smoothed for better viewing
Daily deaths error measure
25,000
20,000
15,000
10,000
5,000
0
20-01-01
20-04-01
20-07-01
20-10-01
21-01-01
21-04-01
21-07-01
21-10-01
22-01-01
22-04-01
22-07-01
22-10-01
23-01-01
Date
DELP
IHME
IMPE
LANL
UCLA
YYGU

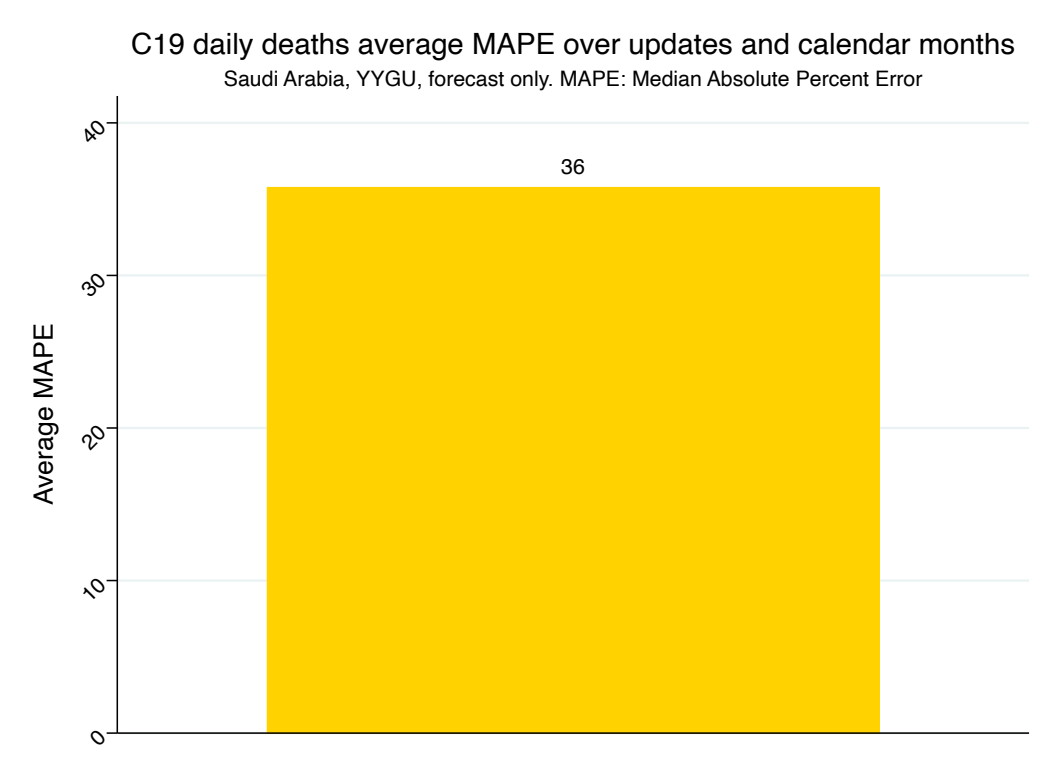

C19 daily deaths average MAPE over updates and calendar months
Saudi Arabia, DELP, forecast only. MAPE: Median Absolute Percent Error
Average MAPE
150
100
50
0
126

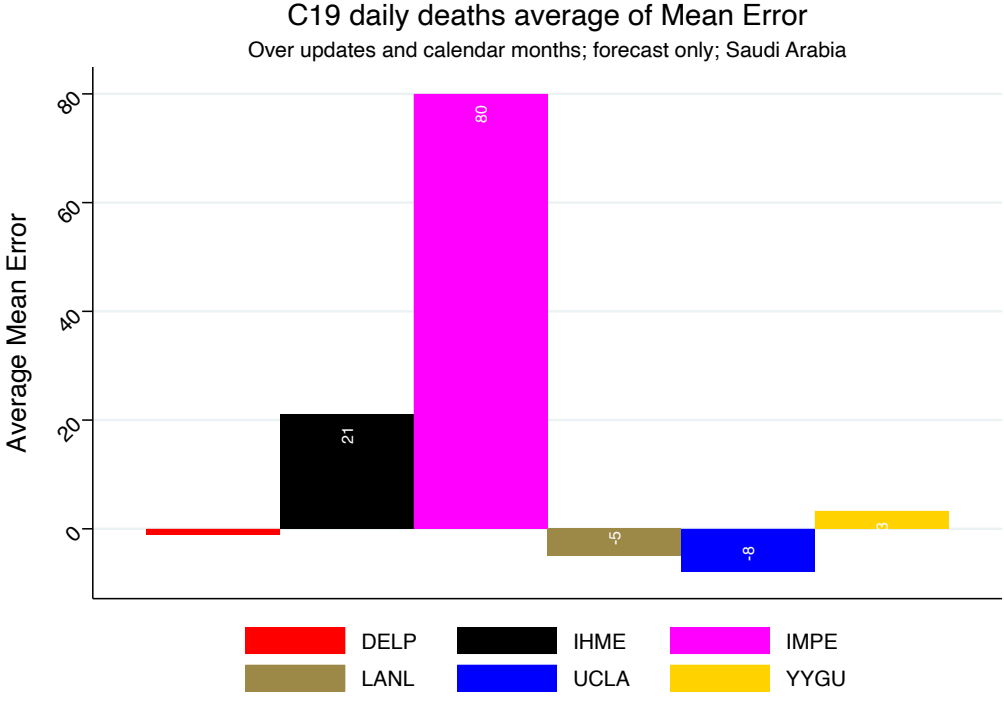

C19 daily deaths average MAPE over updates and calendar months
Saudi Arabia, IHME, forecast only. MAPE: Median Absolute Percent Error
Average MAPE
0
100
200
300
400
330

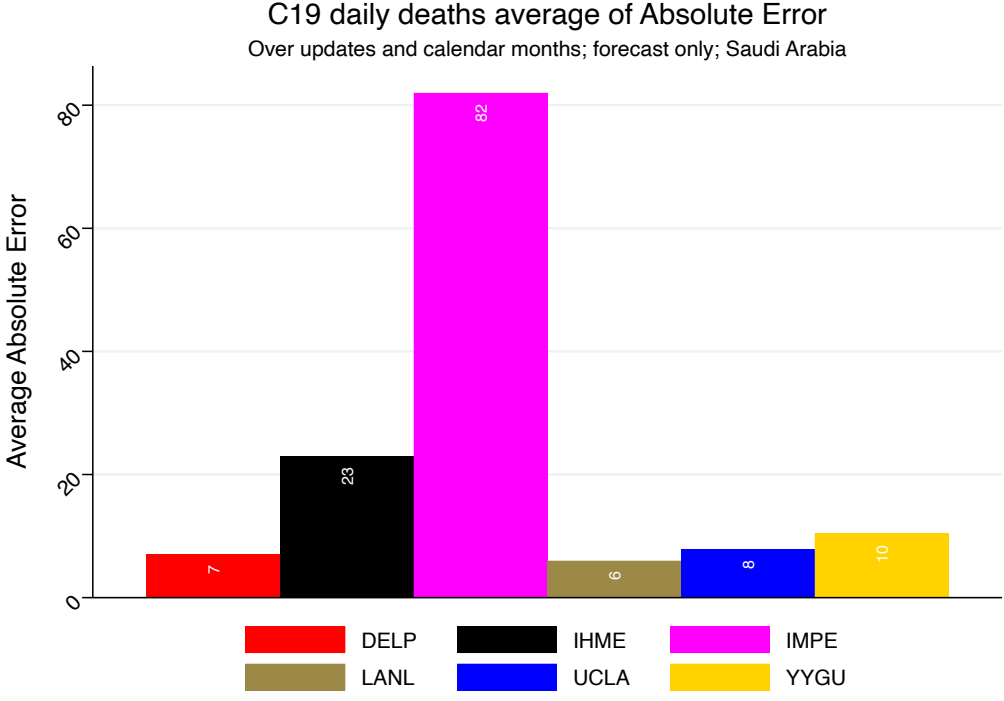

C19 daily deaths average MAPE over updates and calendar months
Saudi Arabia, IMPE, forecast only. MAPE: Median Absolute Percent Error
3,150
Average MAPE
0
1,000
2,000
3,000

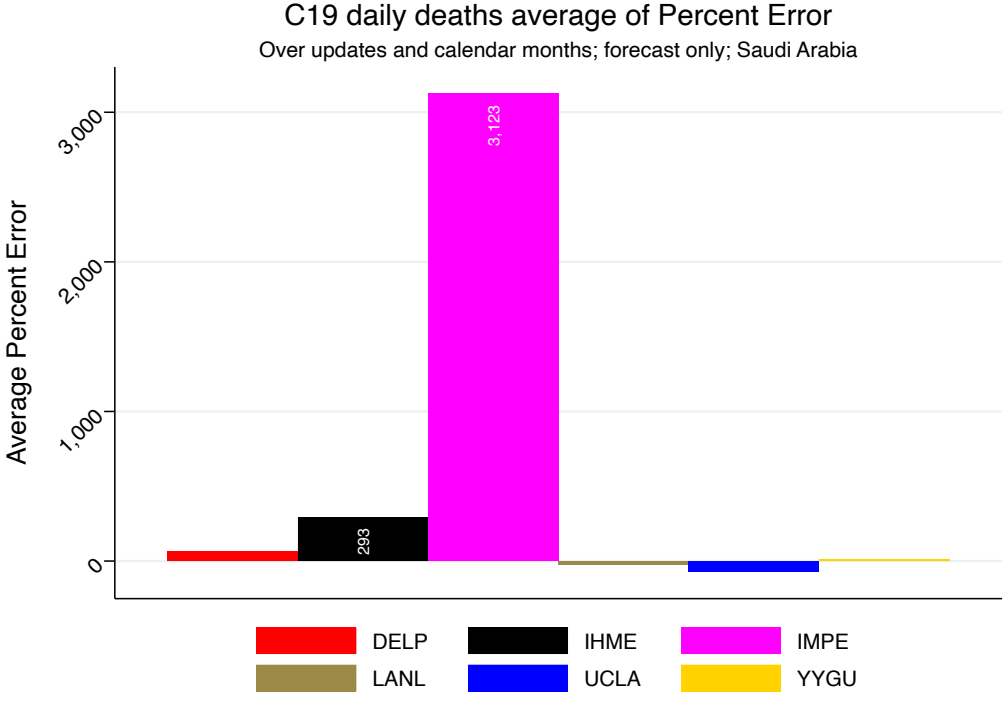

C19 daily deaths average MAPE over updates and calendar months
Saudi Arabia, LANL, forecast only. MAPE: Median Absolute Percent Error
41
Average MAPE
0
10
20
30
40

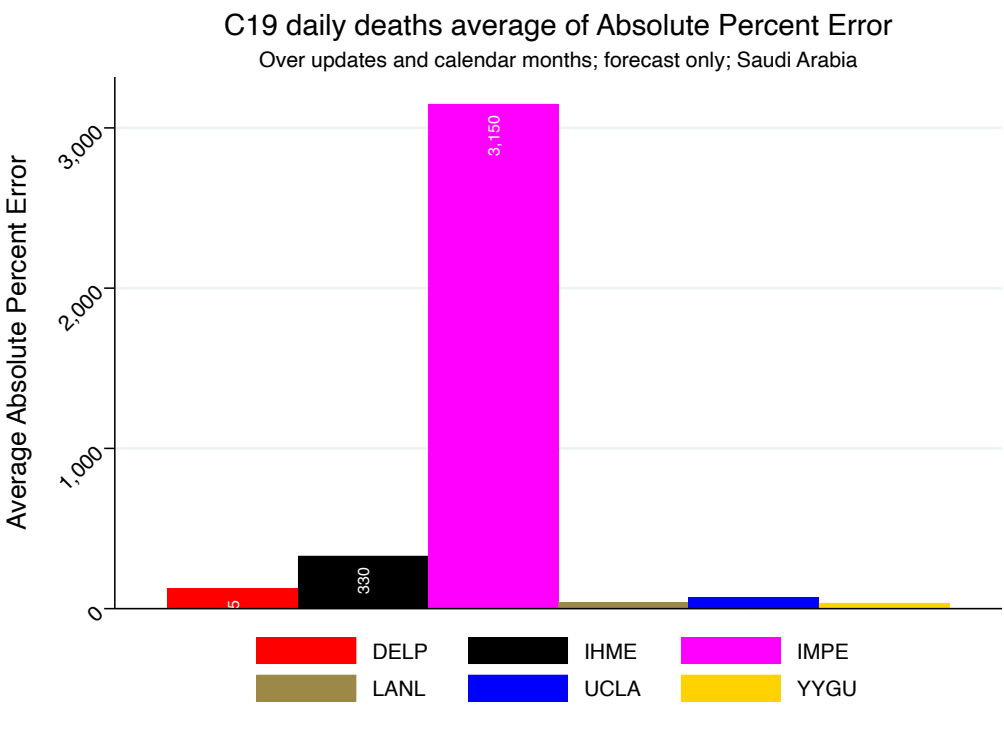

C19 daily deaths average MAPE over updates and calendar months
Saudi Arabia, UCLA, forecast only. MAPE: Median Absolute Percent Error
Average MAPE
0
20
40
60
80
72

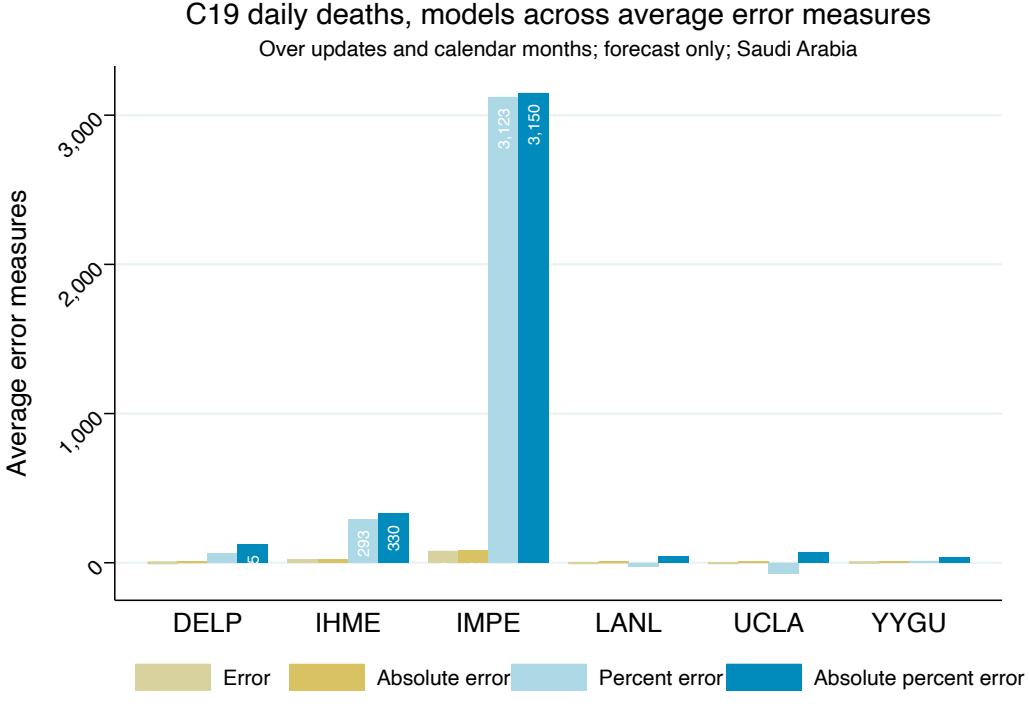

C19 daily deaths average MAPE over updates and calendar months
Saudi Arabia, YYGU, forecast only. MAPE: Median Absolute Percent Error
Average MAPE
0
10
20
30
40
36

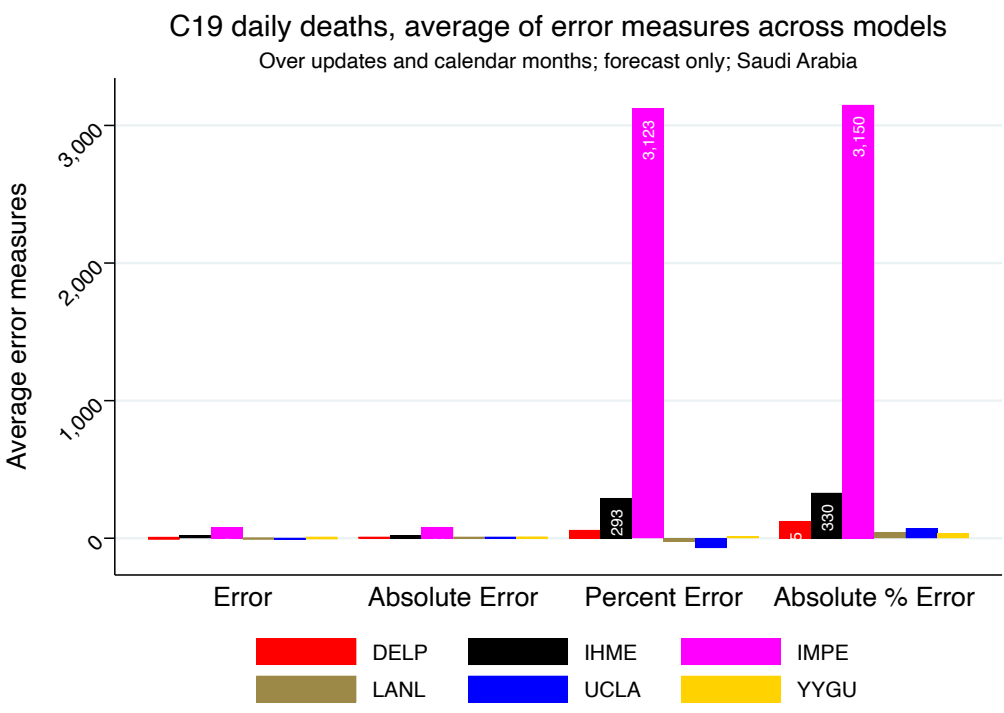

C19 daily deaths average of Mean Error
Over updates and calendar months; forecast only; Saudi Arabia
Average Mean Error
0
20
40
60
80
21
80
-5
-8
3
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths average of Absolute Error
Over updates and calendar months; forecast only; Saudi Arabia
Average Absolute Error
0
20
40
60
80
7
23
82
6
8
10
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths average of Percent Error
Over updates and calendar months; forecast only; Saudi Arabia
Average Percent Error
0
1,000
2,000
3,000
293
3,123
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths average of Absolute Percent Error
Over updates and calendar months; forecast only; Saudi Arabia
Average Absolute Percent Error
0
1,000
2,000
3,000
5
330
3,150
DELP
IHME
IMPE
LANL
UCLA
YYGU


C19 daily deaths, models across average error measures
Over updates and calendar months; forecast only; Saudi Arabia
Average error measures
0
1,000
2,000
3,000
293
330
3,123
3,150
DELP
IHME
IMPE
LANL
UCLA
YYGU
Error
Absolute error
Percent error
Absolute percent error


C19 daily deaths, average of error measures across models
Over updates and calendar months; forecast only; Saudi Arabia
Average error measures
0
1,000
2,000
3,000
293
3,123
5
330
3,150
Error
Absolute Error
Percent Error
Absolute % Error
DELP
IHME
IMPE
LANL
UCLA
YYGU