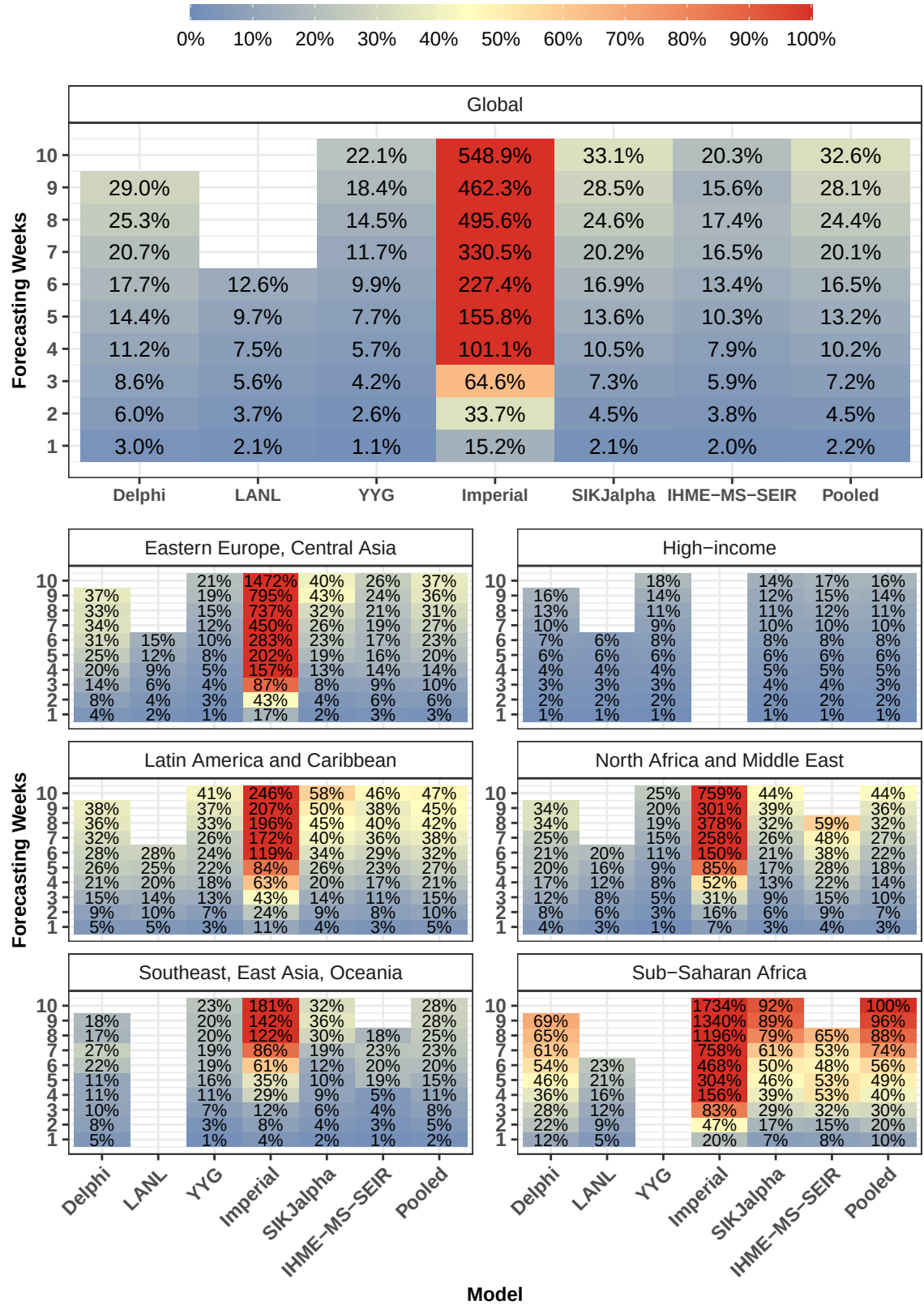
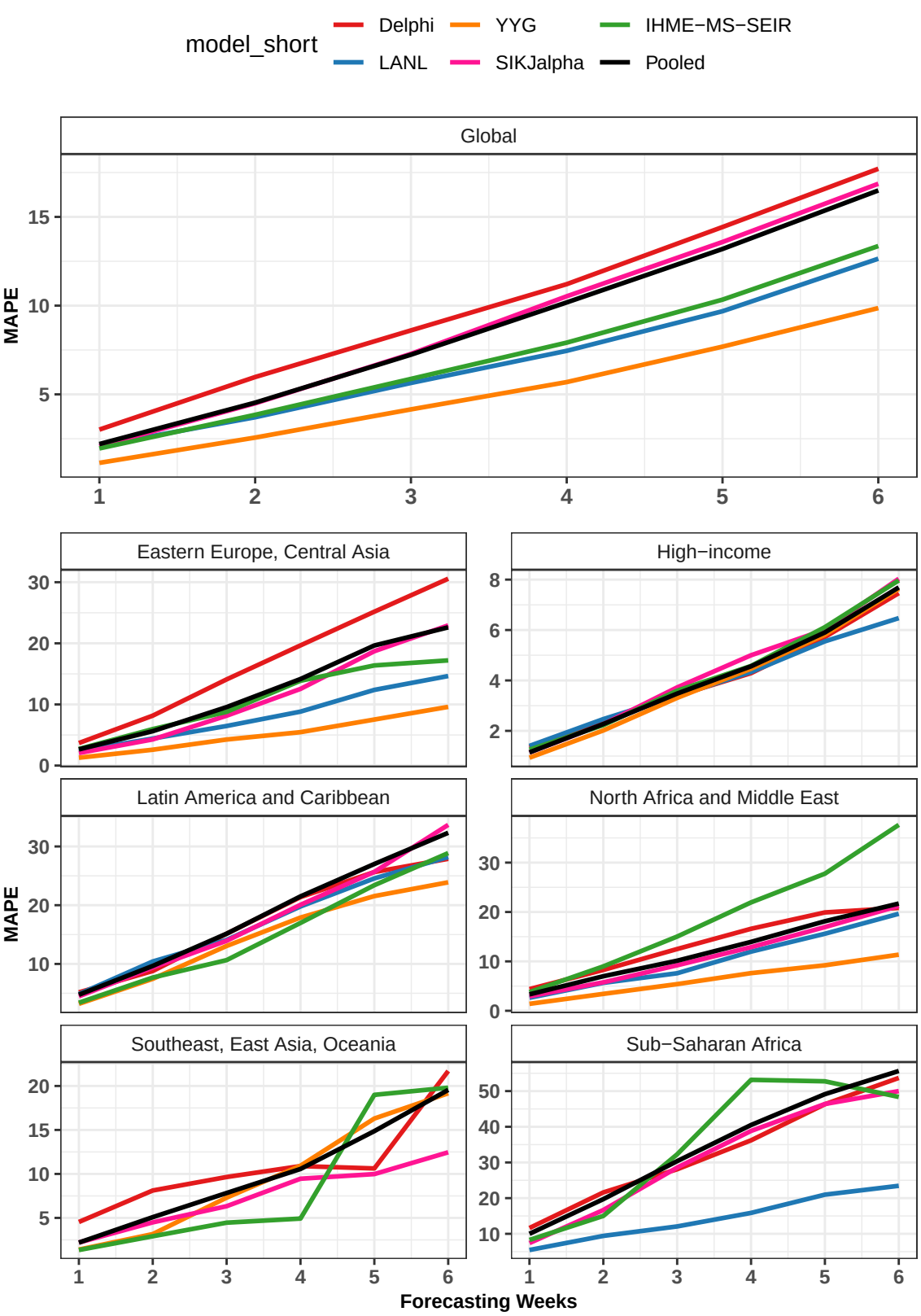
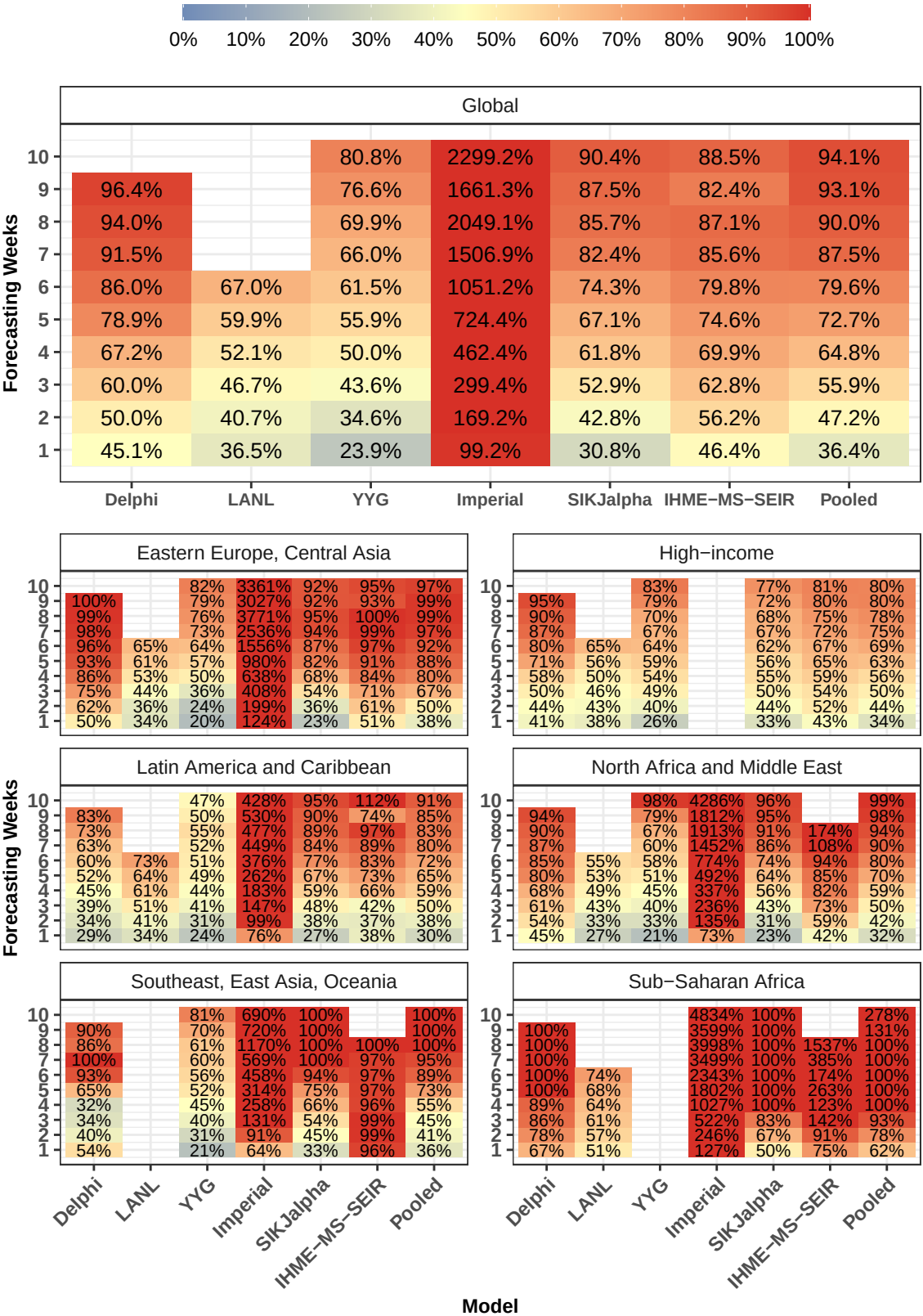
Total Cumulative Error
Median Absolute Percent Error



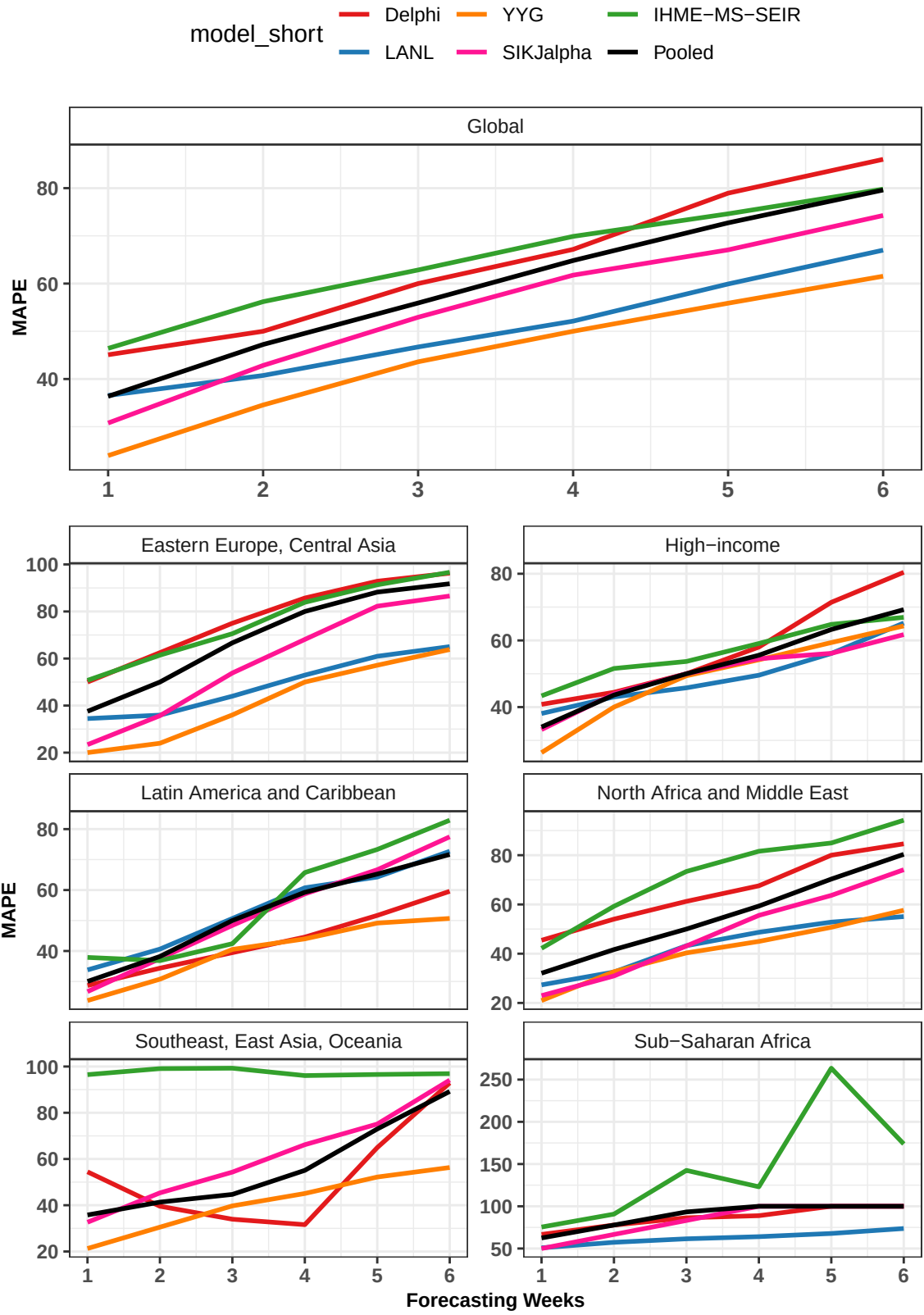
Total Cumulative Error
Median Absolute Percent Error

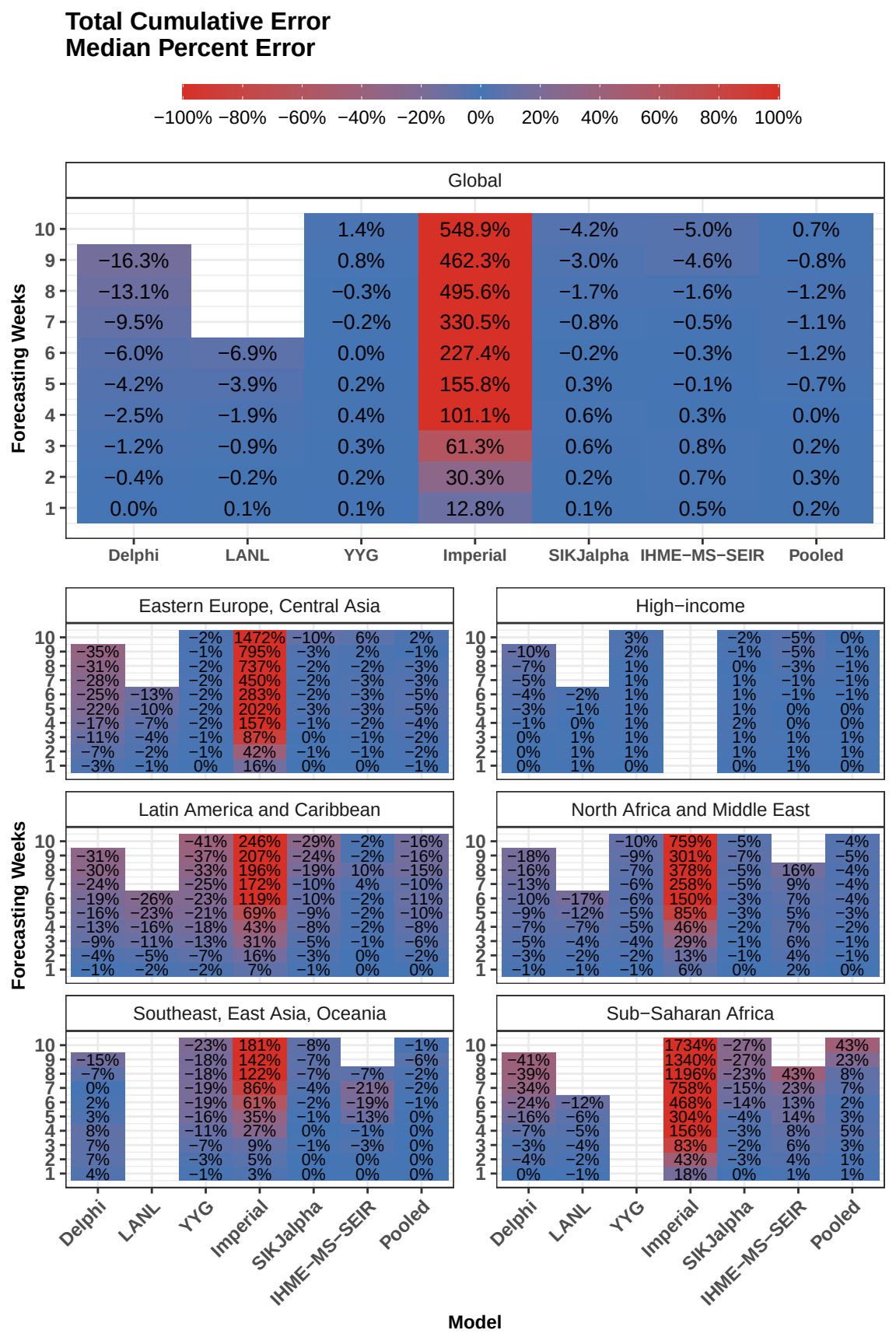


Weekly Error
Median Absolute Percent Error

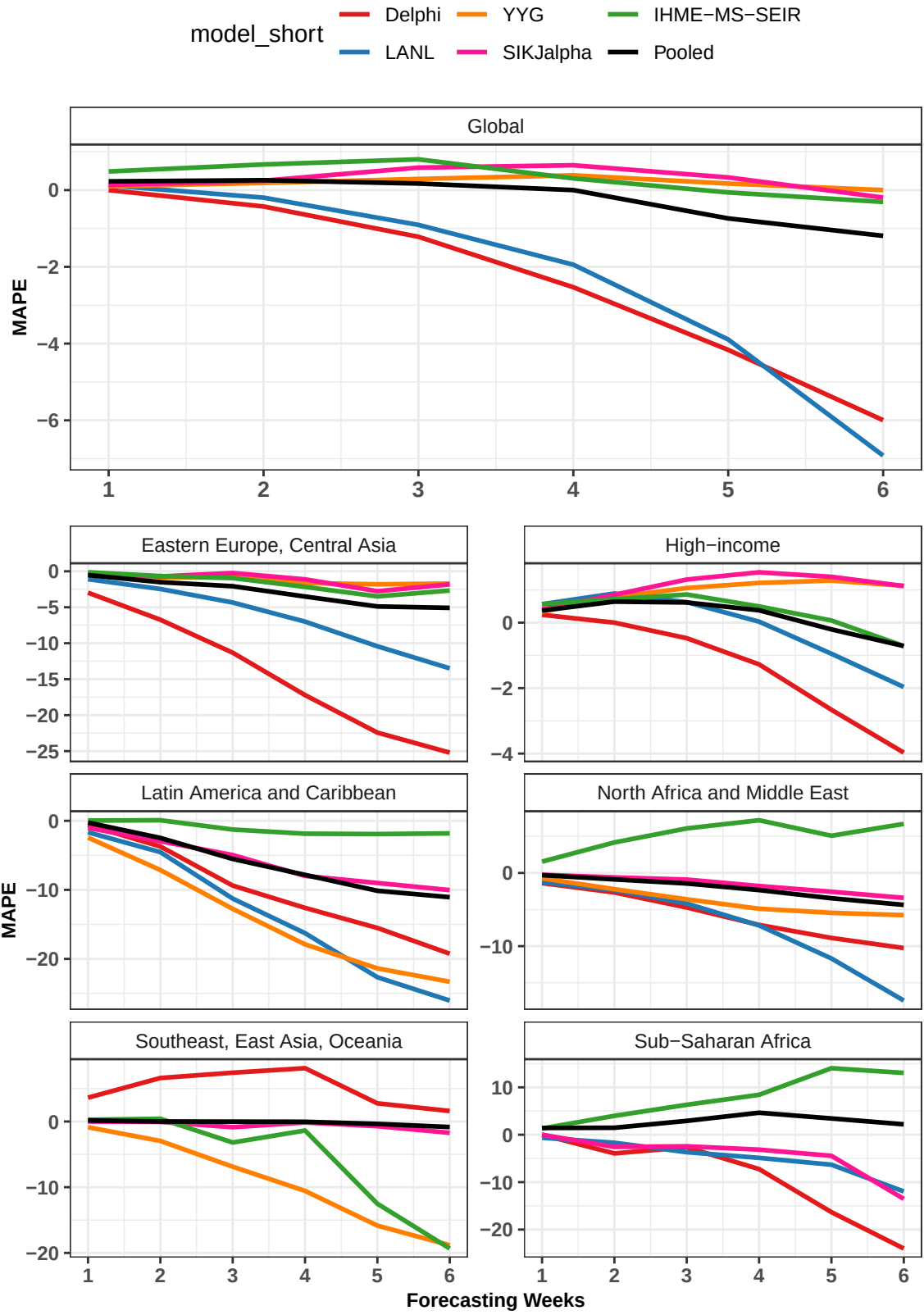


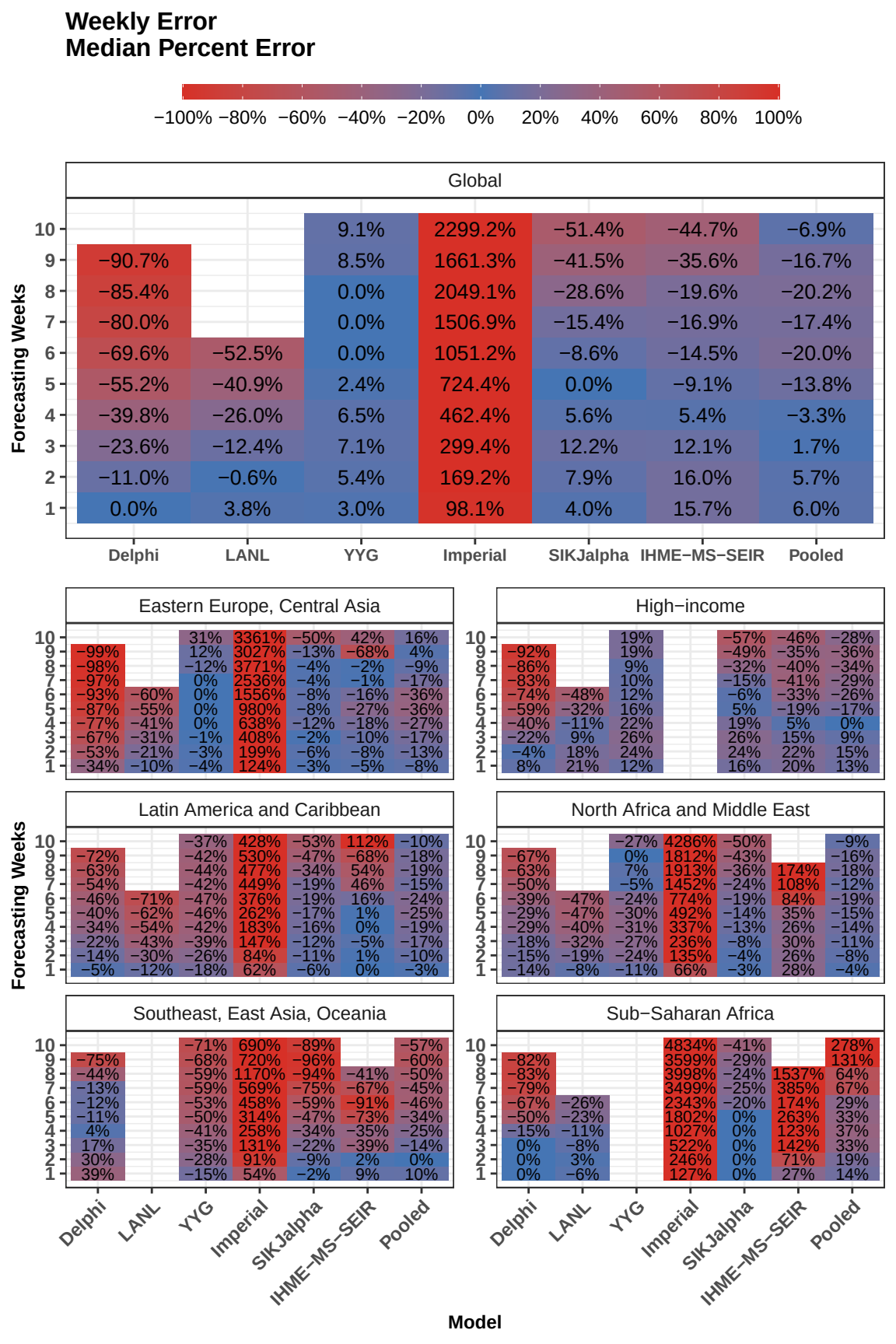
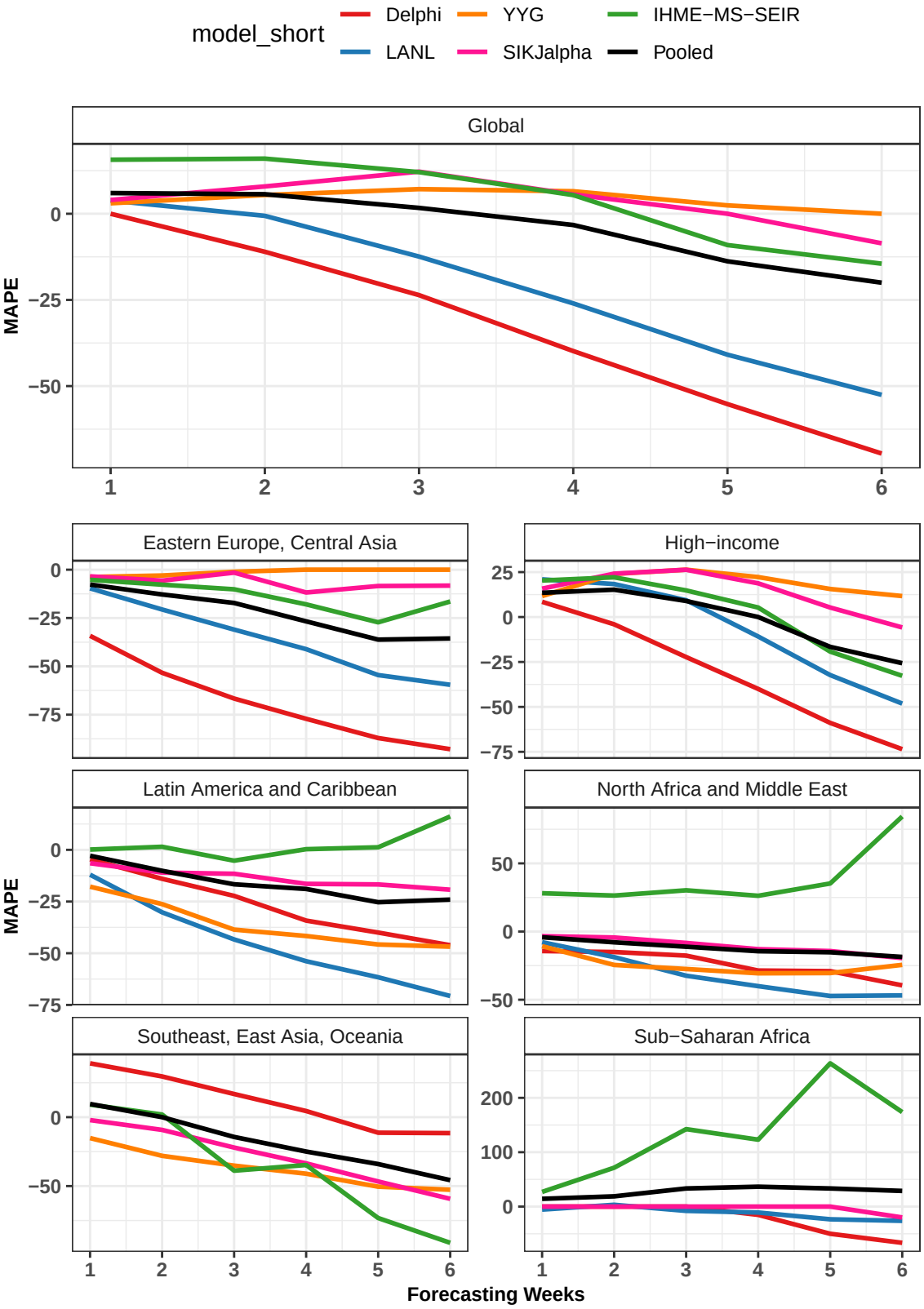
Weekly Error
Median Absolute Percent Error




Total Cumulative Error
Median Percent Error
−100% −80% −60% −40% −20% 0% 20% 40% 60% 80% 100%
Global
Forecasting Weeks
10 9 8 7 6 5 4 3 2 1
1.4% 548.9% −4.2% −5.0% 0.7%
−16.3% 0.8% 462.3% −3.0% −4.6% −0.8%
−13.1% −0.3% 495.6% −1.7% −1.6% −1.2%
−9.5% −0.2% 330.5% −0.8% −0.5% −1.1%
−6.0% −6.9% 0.0% 227.4% −0.2% −0.3% −1.2%
−4.2% −3.9% 0.2% 155.8% 0.3% −0.1% −0.7%
−2.5% −1.9% 0.4% 101.1% 0.6% 0.3% 0.0%
−1.2% −0.9% 0.3% 61.3% 0.6% 0.8% 0.2%
−0.4% −0.2% 0.2% 30.3% 0.2% 0.7% 0.3%
0.0% 0.1% 0.1% 12.8% 0.1% 0.5% 0.2%
Delphi LANL YYG Imperial SIKJalpha IHME−MS−SEIR Pooled
Eastern Europe, Central Asia
−35% −2% −1% 1472% −10% 6% 2%
−31% −1% −2% 795% −3% 2% −1%
−28% −2% −2% 737% −2% −2% −3%
−25% −13% −2% 450% −2% −3% −3%
−22% −10% −2% 283% −2% −3% −5%
−17% −7% −2% 202% −3% −3% −5%
−11% −4% −1% 157% −1% −2% −4%
−7% −2% −1% 87% 0% −1% −2%
−3% −1% 0% 42% −1% −1% −2%
16% 0% 0% −1%
High−income
−10% 3% −2% −5% 0%
−7% 2% −1% −5% −1%
−5% 1% 0% −3% −1%
−4% −2% 1% 1% −1% −1%
−3% −1% 1% 1% 0% 0%
−1% 0% 1% 2% 0% 0%
0% 1% 1% 1% 1% 1%
0% 1% 1% 1% 1% 1%
0% 1% 0% 0% 1% 0%
Latin America and Caribbean
−31% −41% 246% −29% −2% −16%
−30% −37% 207% −24% −2% −16%
−24% −33% 196% −19% 10% −15%
−19% −26% −25% 172% −10% 4% −10%
−16% −23% −23% 119% −10% −2% −11%
−13% −16% −21% 69% −9% −2% −10%
−9% −11% −18% 43% −8% −2% −8%
−4% −5% −13% 31% −5% −1% −6%
−1% −2% −7% 16% −3% 0% −2%
−2% −2% 7% −1% 0%
North Africa and Middle East
−18% −10% 759% −5% −4%
−16% −9% 301% −7% −5%
−13% −7% 378% −5% 16% −4%
−10% −17% −6% 258% −5% 9% −4%
−9% −12% −6% 150% −3% 7% −4%
−7% −7% −5% 85% −3% 5% −3%
−5% −4% −5% 46% −2% 7% −2%
−3% −2% −4% 29% −1% 6% −1%
−1% −1% −2% 13% −1% 4% −1%
−1% −1% 6% 0% 2% 0%
Southeast, East Asia, Oceania
−15% −23% 181% −8% −1%
−7% −18% 142% −7% −6%
0% −18% 122% −7% −7% −2%
2% −19% 86% −4% −21% −2%
3% −19% 61% −2% −19% −1%
8% −16% 35% −1% −13% 0%
7% −11% 27% 0% −1% 0%
7% −7% 9% −1% −3% 0%
4% −3% 5% 0% 0% 0%
−1% 3% 0% 0% 0%
Sub−Saharan Africa
−41% 1734% −27% 43%
−39% 1340% −27% 23%
−34% 1196% −23% 43% 8%
−24% −12% 758% −15% 23% 7%
−16% −6% 468% −14% 13% 2%
−7% −5% 304% −4% 14% 3%
−3% −4% 156% −3% 8% 5%
−4% −2% 83% −2% 6% 3%
0% −1% 43% −3% 4% 1%
18% 0% 1% 1%
Delphi LANL YYG Imperial SIKJalpha IHME−MS−SEIR Pooled
Model

Total Cumulative Error
Median Percent Error




Weekly Error
Median Percent Error
−100% −80% −60% −40% −20% 0% 20% 40% 60% 80% 100%
Global
Forecasting Weeks
10 9.1% 2299.2% −51.4% −44.7% −6.9%
9 −90.7% 8.5% 1661.3% −41.5% −35.6% −16.7%
8 −85.4% 0.0% 2049.1% −28.6% −19.6% −20.2%
7 −80.0% 0.0% 1506.9% −15.4% −16.9% −17.4%
6 −69.6% −52.5% 0.0% 1051.2% −8.6% −14.5% −20.0%
5 −55.2% −40.9% 2.4% 724.4% 0.0% −9.1% −13.8%
4 −39.8% −26.0% 6.5% 462.4% 5.6% 5.4% −3.3%
3 −23.6% −12.4% 7.1% 299.4% 12.2% 12.1% 1.7%
2 −11.0% −0.6% 5.4% 169.2% 7.9% 16.0% 5.7%
1 0.0% 3.8% 3.0% 98.1% 4.0% 15.7% 6.0%
Delphi LANL YYG Imperial SIKJalpha IHME−MS−SEIR Pooled
Eastern Europe, Central Asia
10 −99% 31% 3361% −50% 42% 16%
9 −98% 12% 3027% −13% −68% 4%
8 −97% −12% 3771% −4% −2% −9%
7 −93% −60% 0% 2536% −4% −1% −17%
6 −87% −55% 0% 1556% −8% −16% −36%
5 −77% −41% 0% 980% −8% −27% −36%
4 −67% −31% 0% 638% −12% −18% −27%
3 −53% −21% −1% 408% −2% −10% −17%
2 −34% −10% −3% 199% −6% −8% −13%
1 −4% 124% −3% −5% −8%
High−income
10 −92% 19% −57% −46% −28%
9 −86% 19% −49% −35% −36%
8 −83% 9% −32% −40% −34%
7 −74% −48% 10% −15% −41% −29%
6 −59% −32% 12% −6% −33% −26%
5 −40% −11% 16% 5% −19% −17%
4 −22% 9% 22% 19% 5% 0%
3 −4% 18% 26% 26% 15% 9%
2 8% 21% 24% 24% 22% 15%
1 12% 16% 20% 13%
Latin America and Caribbean
10 −72% −37% 428% −53% 112% −10%
9 −63% −42% 530% −47% −68% −18%
8 −54% −44% 477% −34% 54% −19%
7 −46% −71% −42% 449% −19% 46% −15%
6 −40% −62% −47% 376% −19% 16% −24%
5 −34% −54% −46% 262% −17% 1% −25%
4 −22% −43% −42% 183% −16% 0% −19%
3 −14% −30% −39% 147% −12% −5% −17%
2 −5% −12% −26% 84% −11% 1% −10%
1 −18% −62% −6% 0% −3%
North Africa and Middle East
10 −67% −27% 4286% −50% −9%
9 −63% 0% 1812% −43% −16%
8 −50% 7% 1913% −36% 174% −18%
7 −39% −47% −5% 1452% −24% 108% −12%
6 −29% −47% −24% 774% −19% 84% −19%
5 −29% −40% −30% 492% −14% 35% −15%
4 −18% −32% −31% 337% −13% 26% −14%
3 −15% −19% −27% 236% −8% 30% −11%
2 −14% −8% −24% 135% −4% 26% −8%
1 −11% 66% −3% 28% −4%
Southeast, East Asia, Oceania
10 −75% −71% 690% −89% −57%
9 −44% −68% 720% −96% −60%
8 −13% −59% 1170% −94% −41% −50%
7 −12% −59% 569% −75% −67% −45%
6 −11% −53% 458% −59% −91% −46%
5 4% −50% 314% −47% −73% −34%
4 17% −41% 258% −34% −35% −25%
3 30% −35% 131% −22% −39% −14%
2 39% −28% 91% −9% 2% 0%
1 −15% 54% −2% 9% 10%
Sub−Saharan Africa
10 −82% 4834% −41% 278%
9 −83% 3599% −29% 131%
8 −79% 3998% −24% 1537% 64%
7 −67% −26% 3499% −25% 385% 67%
6 −50% −23% 2343% −20% 174% 29%
5 −15% −11% 1802% 0% 263% 33%
4 0% −8% 1027% 0% 123% 37%
3 0% 3% 522% 0% 142% 33%
2 0% −6% 246% 0% 71% 19%
1 127% 0% 27% 14%
Delphi LANL YYG Imperial SIKJalpha IHME−MS−SEIR Pooled
Forecasting Weeks
Model

Weekly Error
Median Percent Error