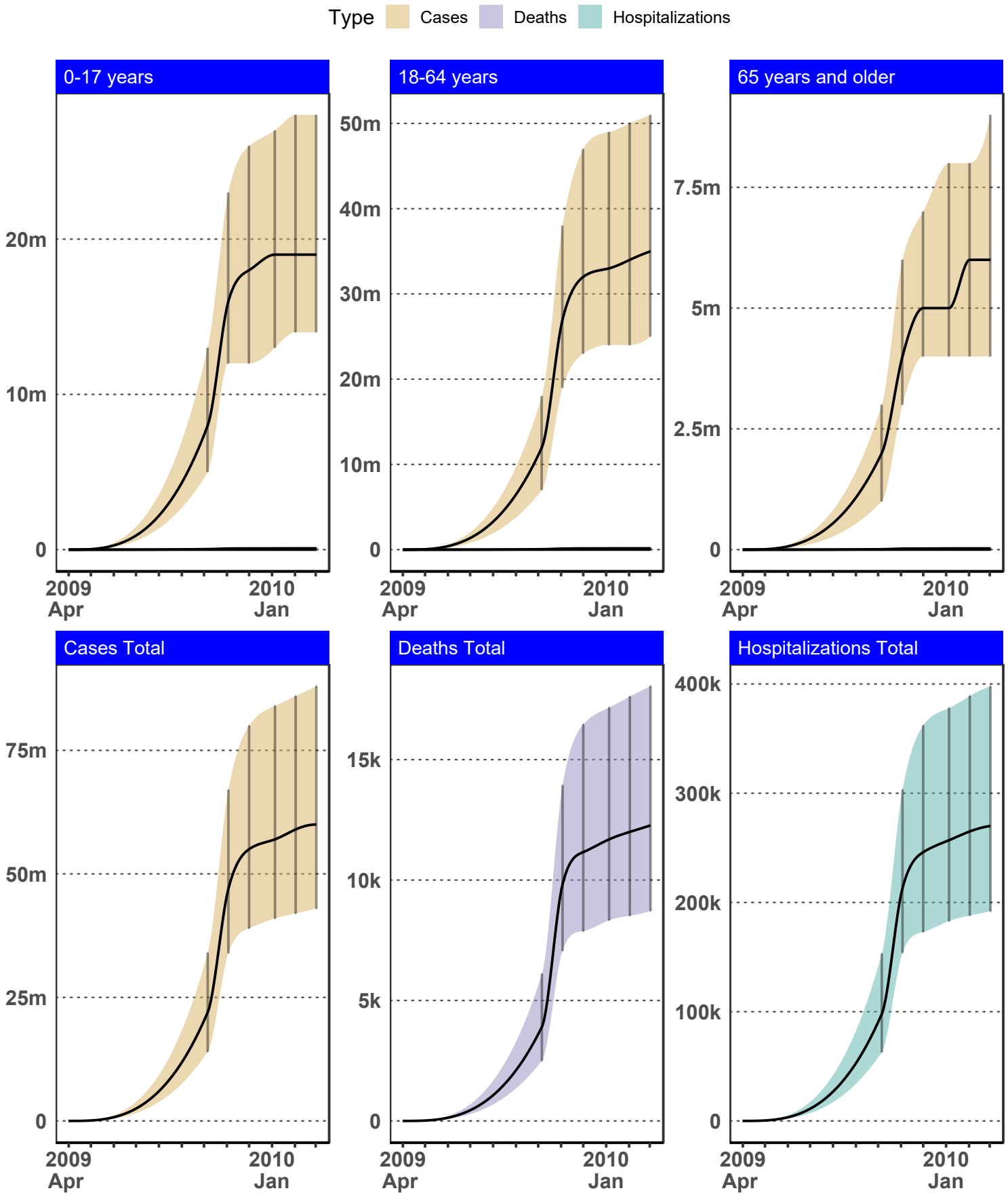
2009 H1N1 (swine flu pandemic) cases, deaths, and hospitalizations

Interpolated counts from counts from Oct 2009 to March 2010

The CDC provided middle, low and high, estimate counts for the categories below for each month from Oct 2009 to March 2010.

Estimates starting from April 2009 (the beginning of the H1N1 pandemic) are not given, these were interpolated using spline estimation.



Source: https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

First case was reported on April 13, 2009 https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5815a5.htm

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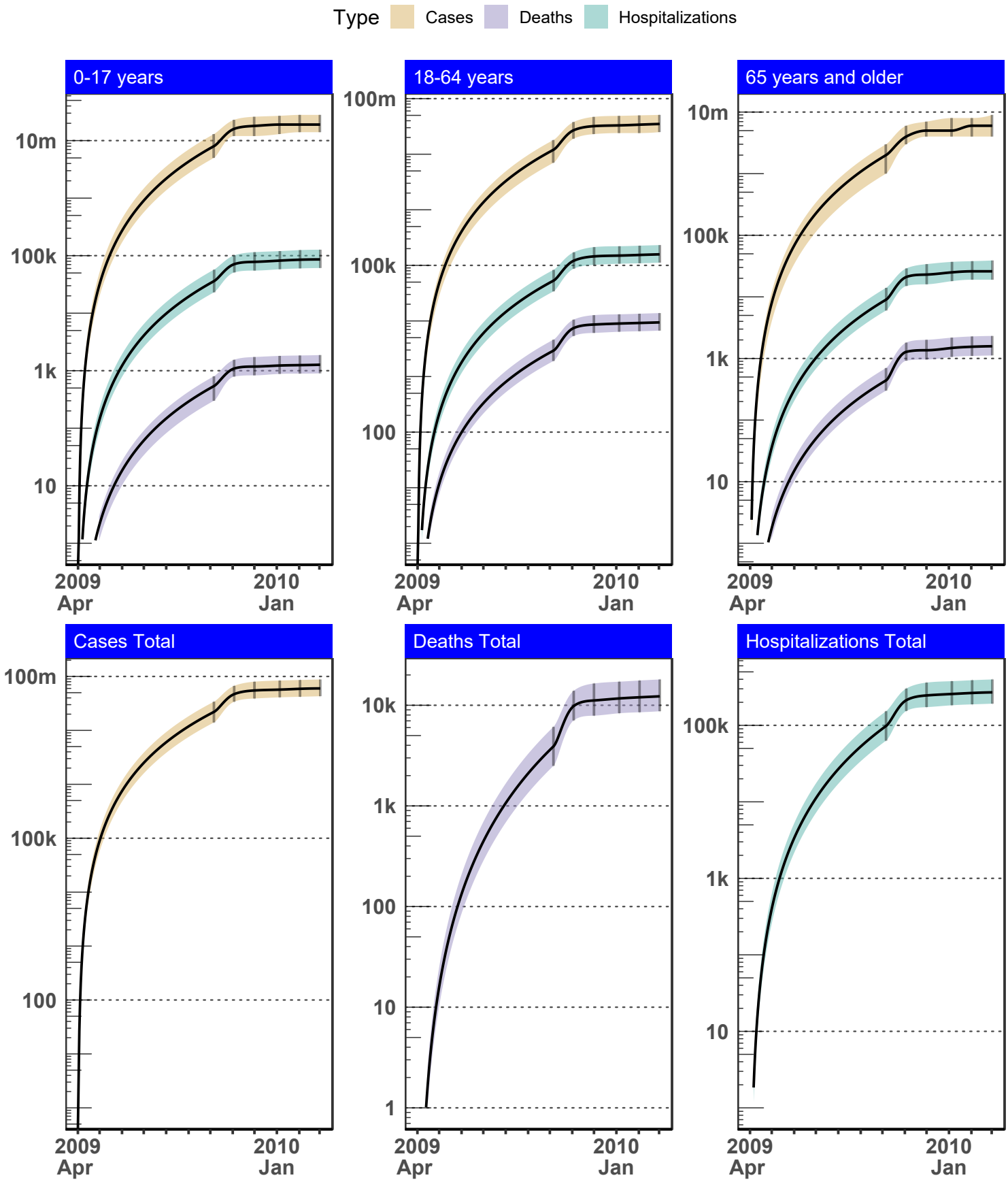

Note: y-axis is in log scale

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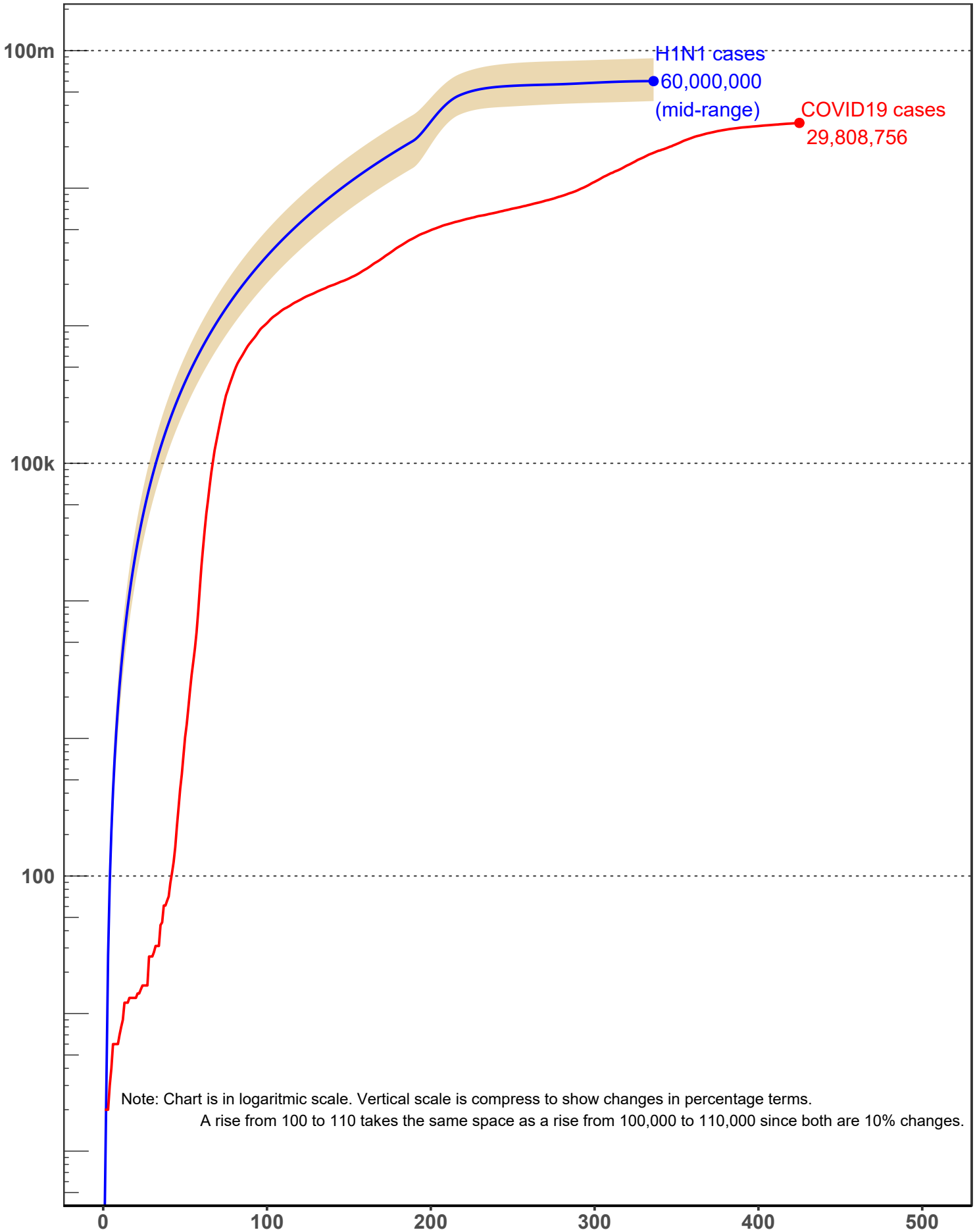
2009 H1N1 cumulative cases by day vs Covid-19

425 days after the first case



Note: y-axis is in log scale

Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-03-21 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

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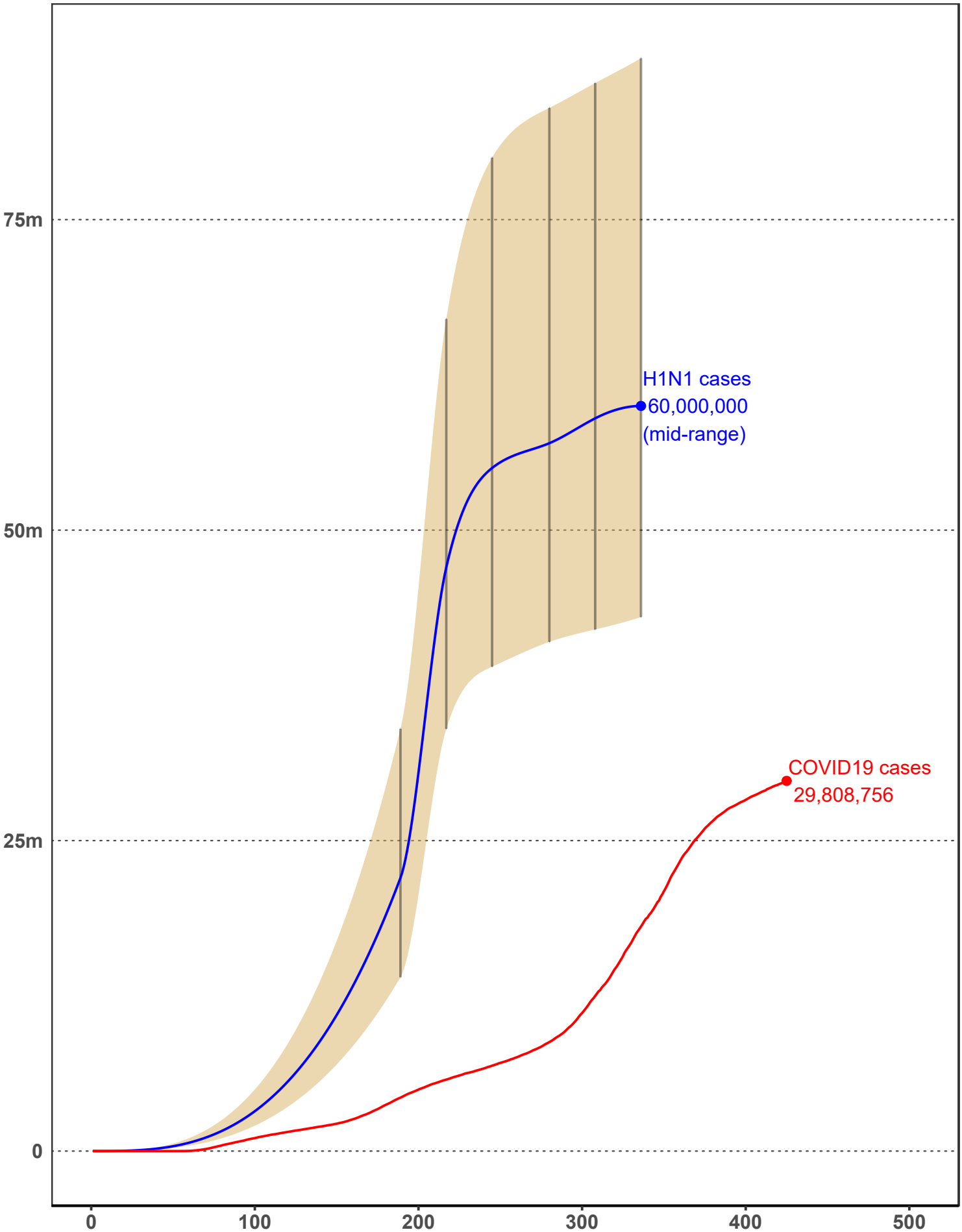

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2009 H1N1 estimated deaths by day vs Covid-19 deaths

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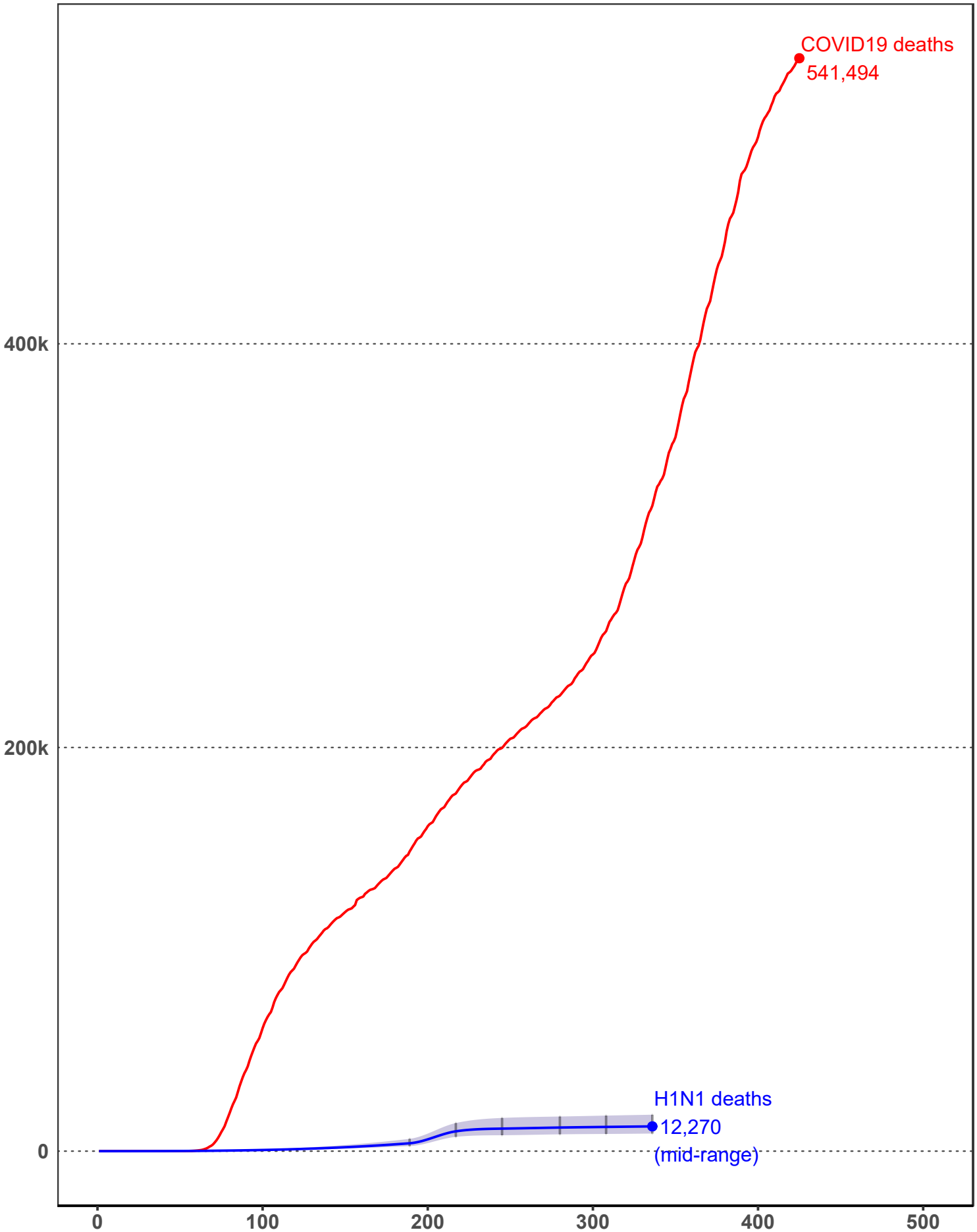

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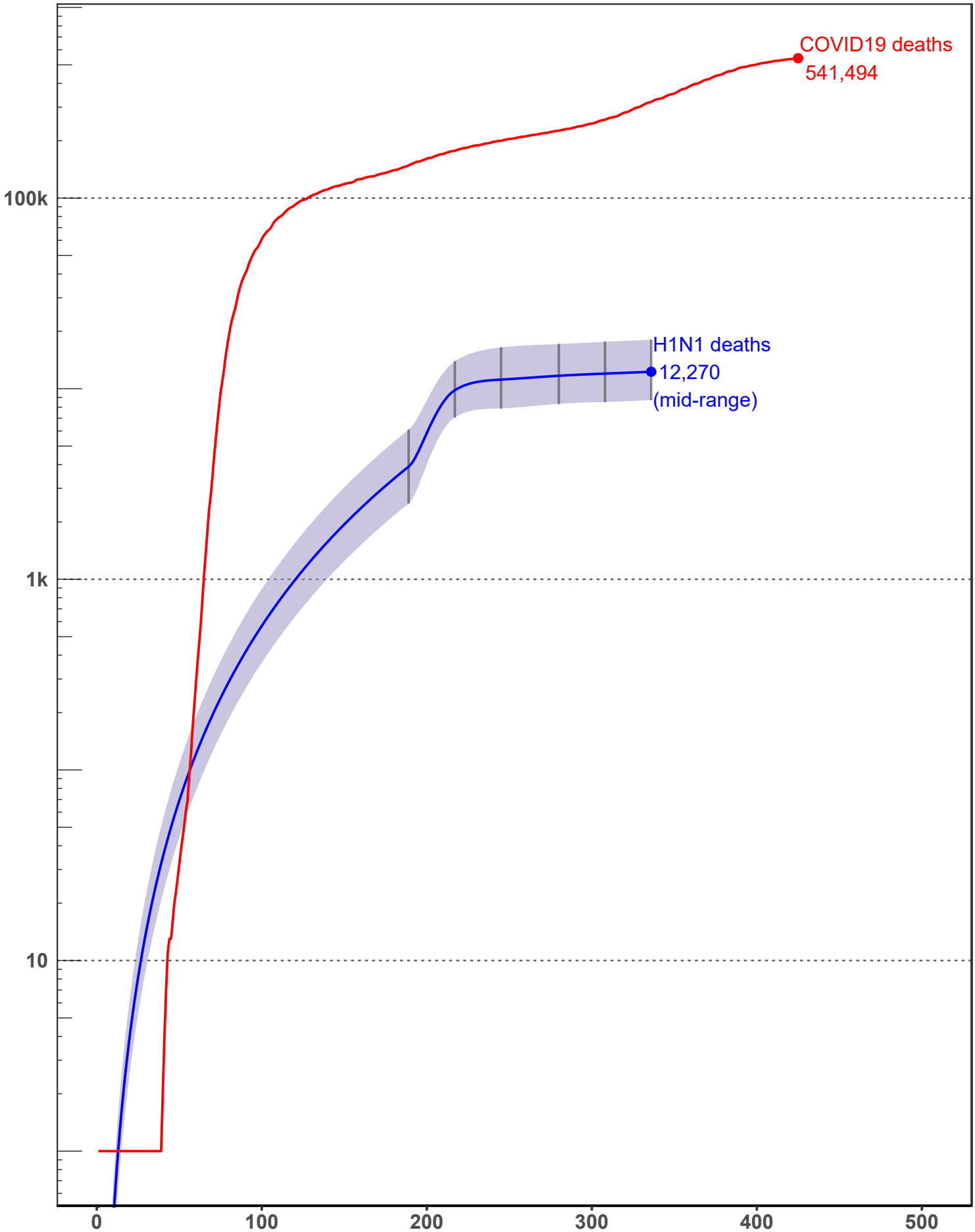

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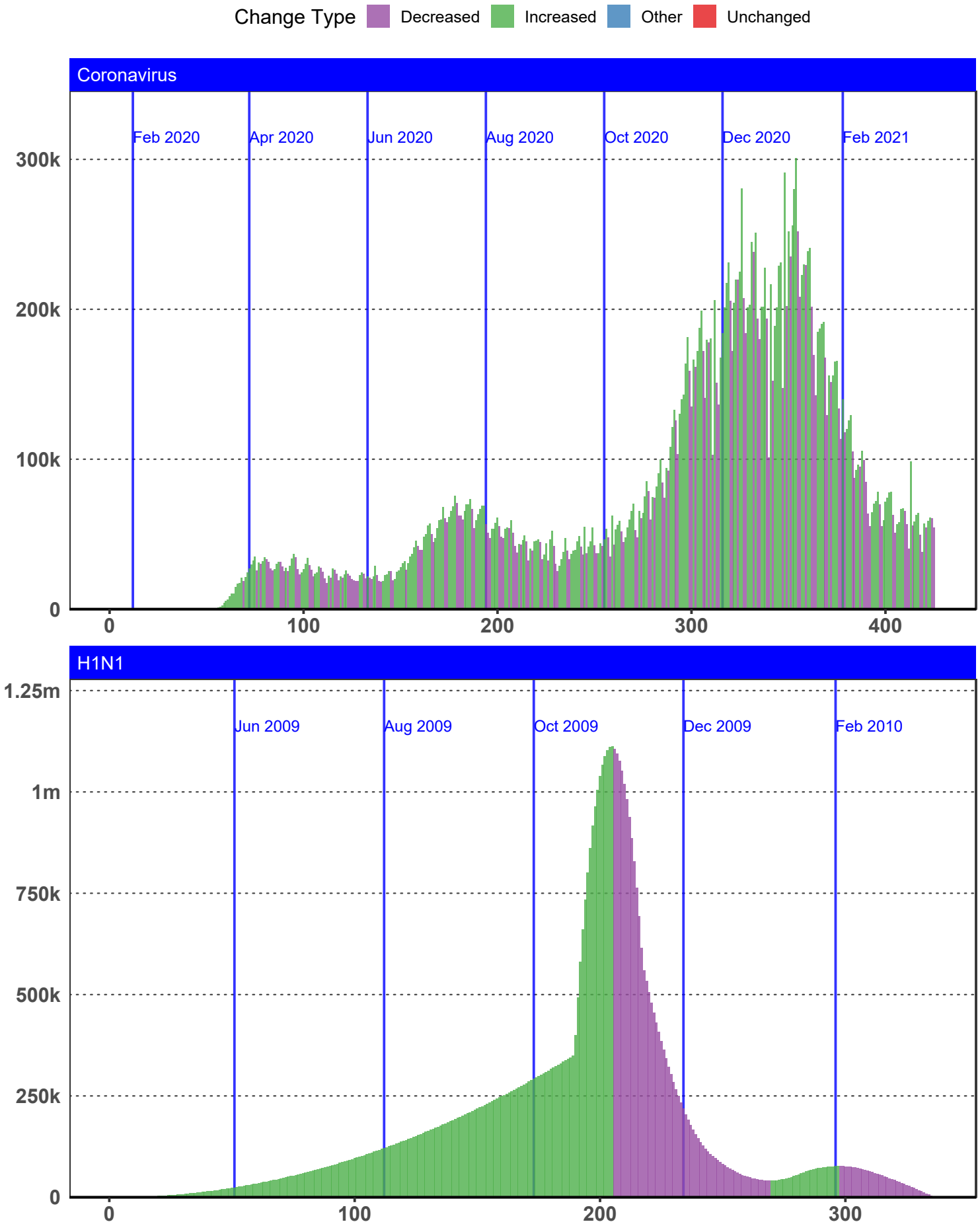
2009 H1N1 new cases by day vs Covid-19 cases

Vertical blue lines are for reference and placed every two months
after the frst case for each pandemic



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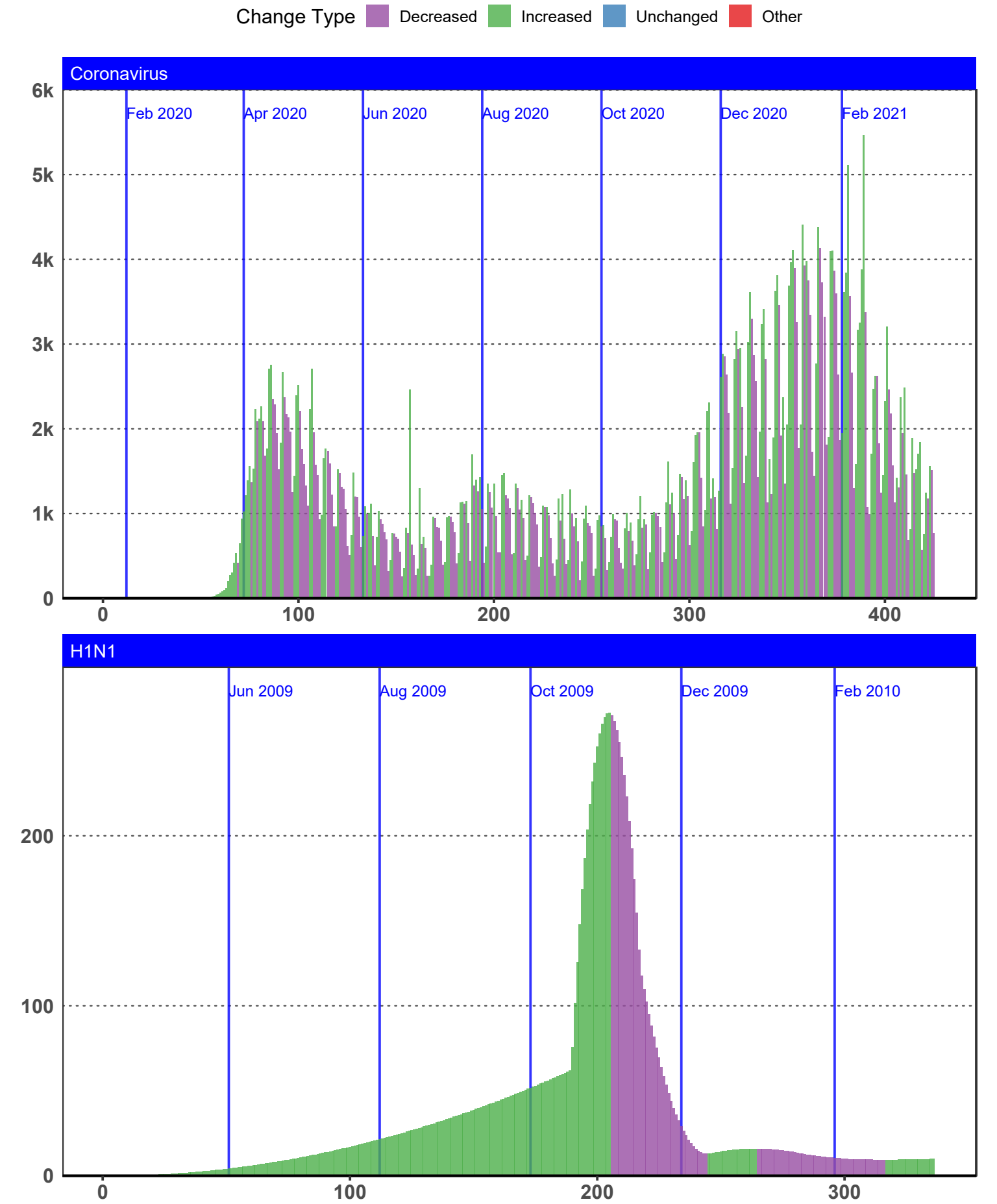

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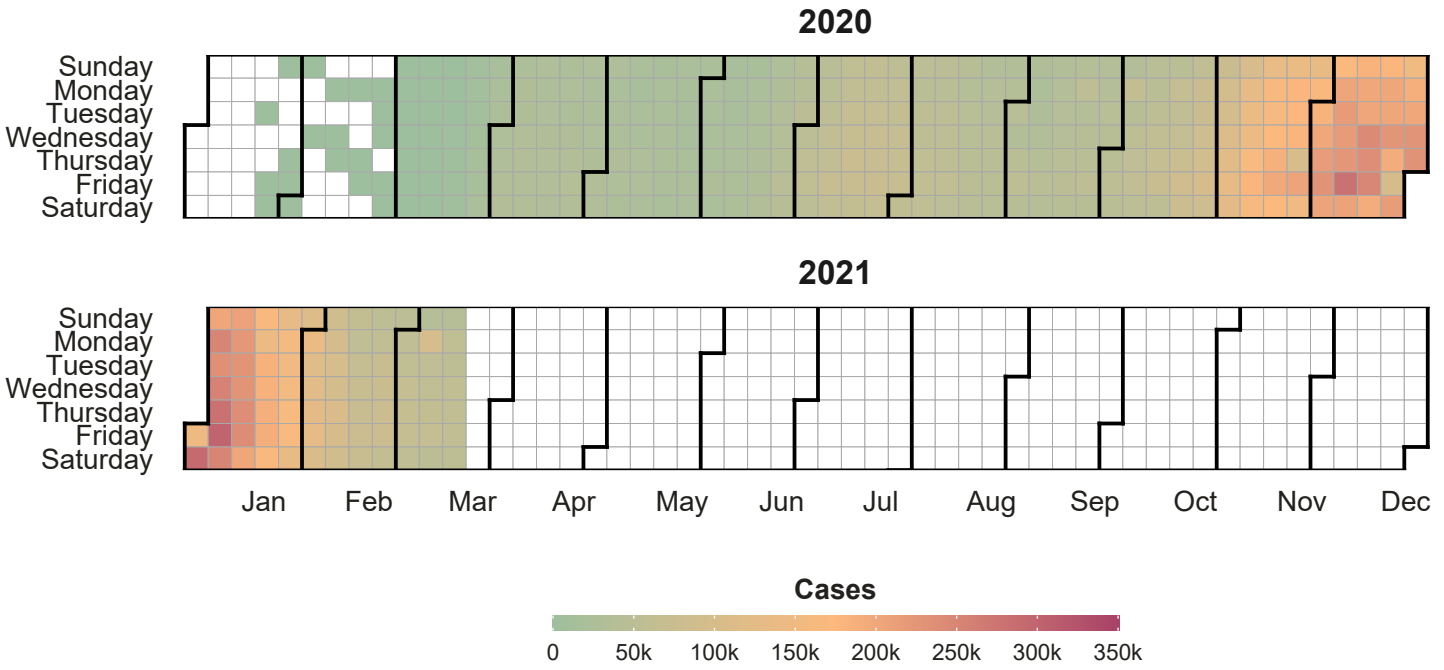
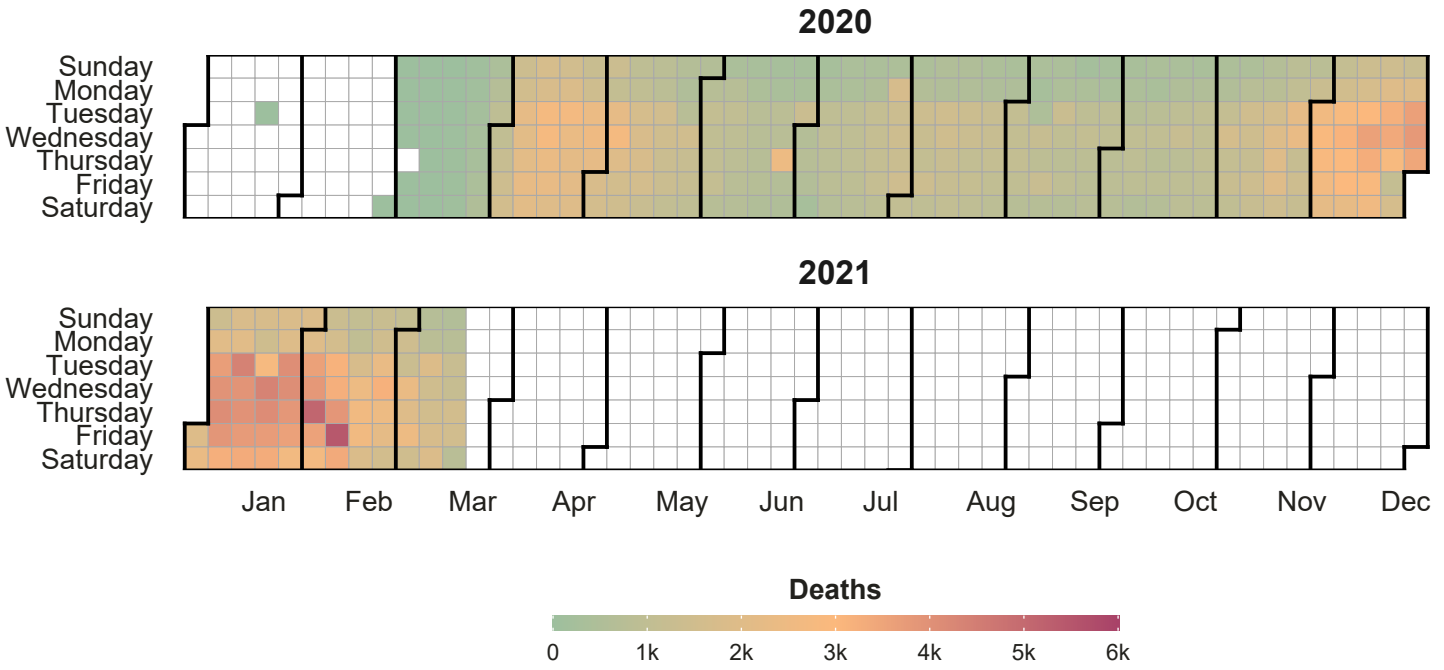
COVID-19 Cases in the US

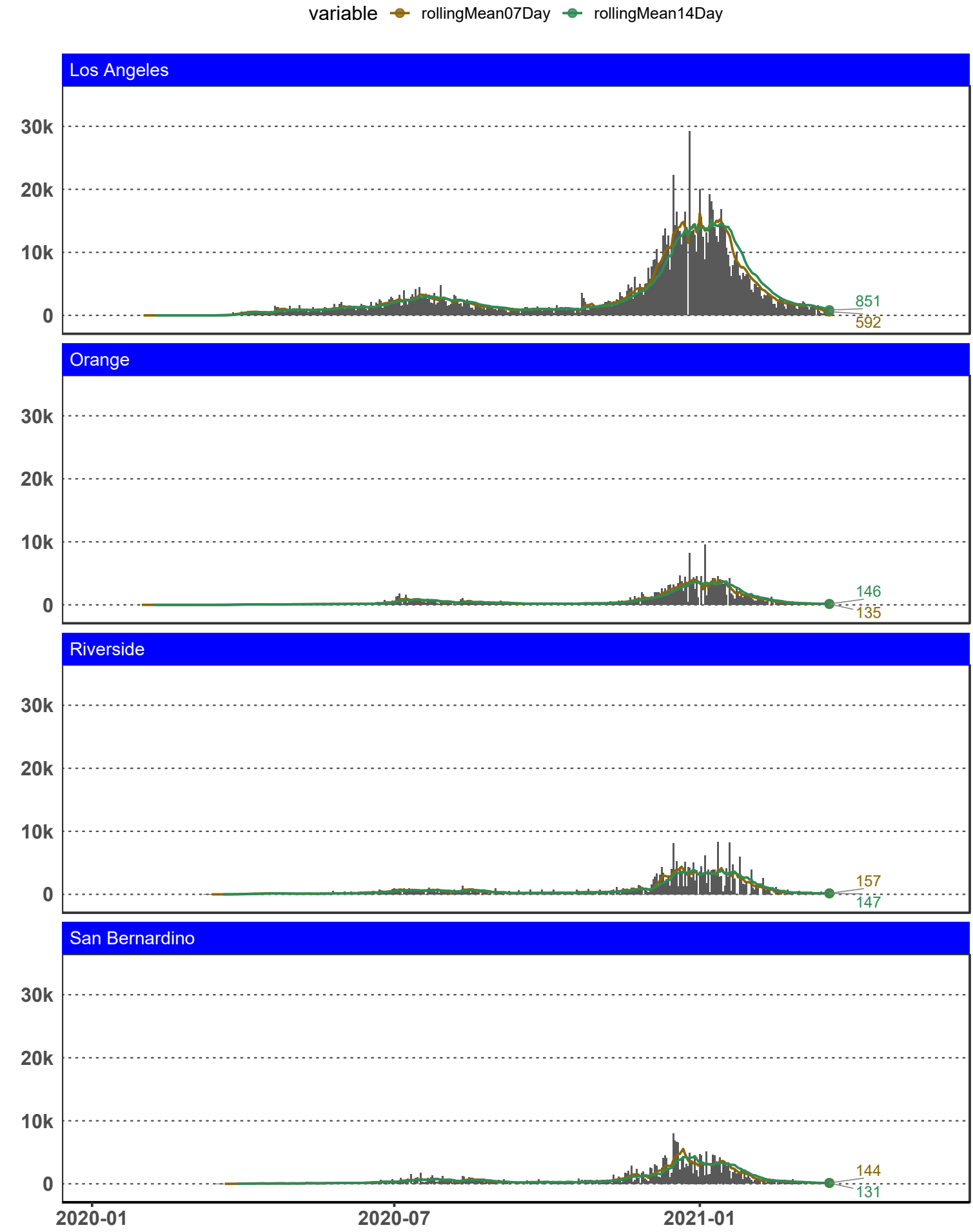


COVID-19 Deaths in the US



Rates by Counties

New cases, 7 and 14 days rolling average



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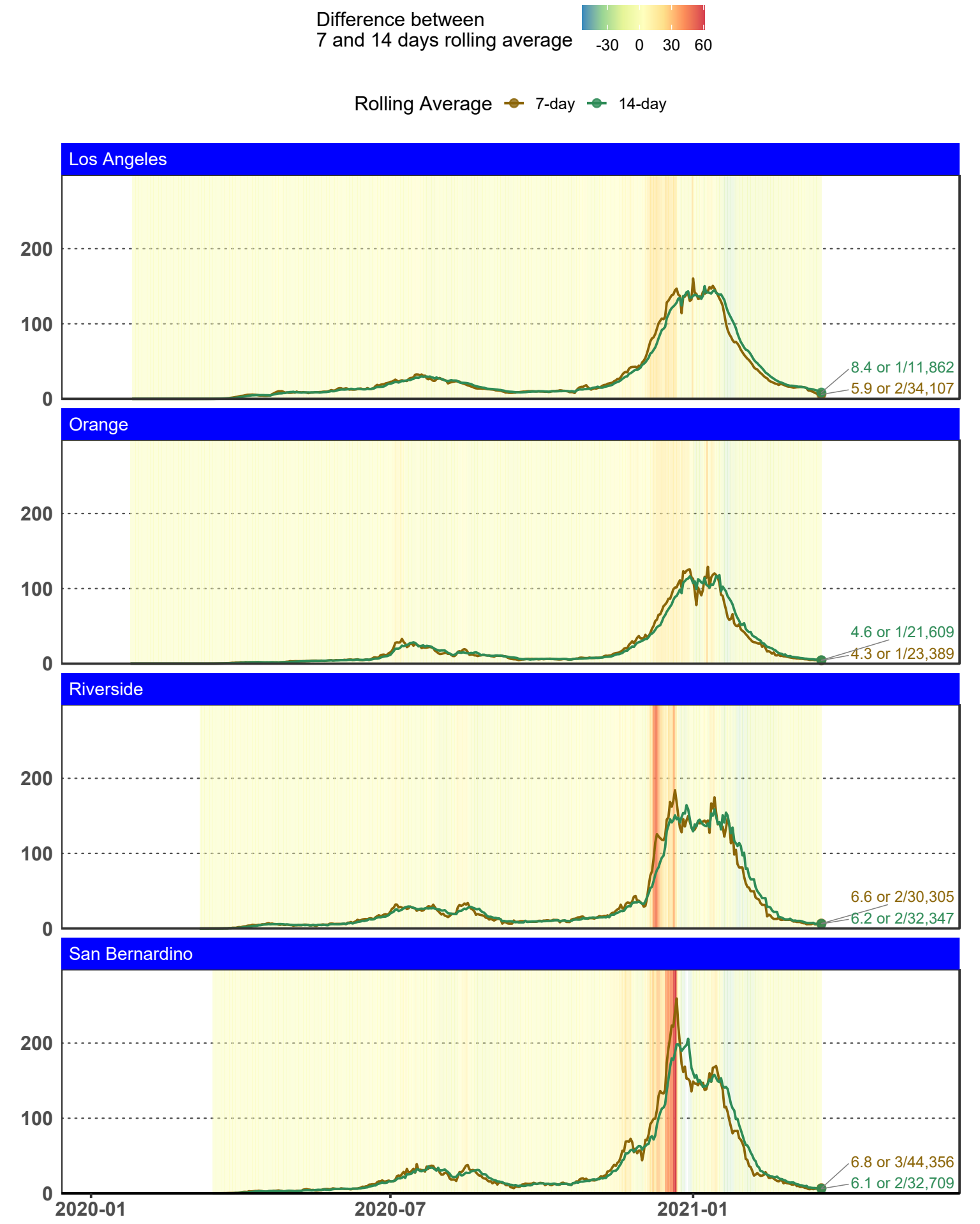
Rates by Counties by 100K population

New cases, 7 and 14 days rolling average



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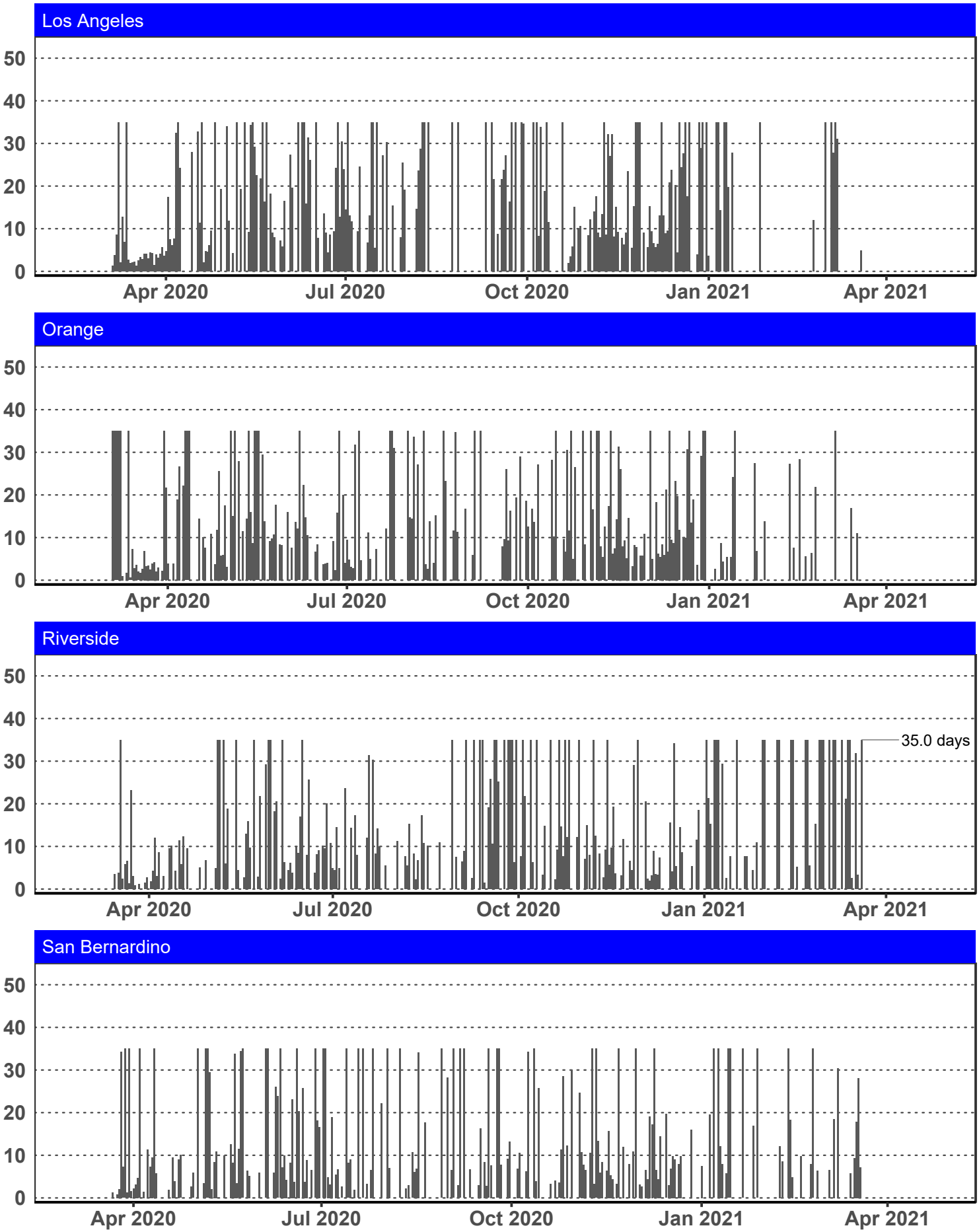
Days to double the number of cases

based on seven day rolling average of new cases,
for counts increase only, if the counts double in more than 35 days they show as 35 days.



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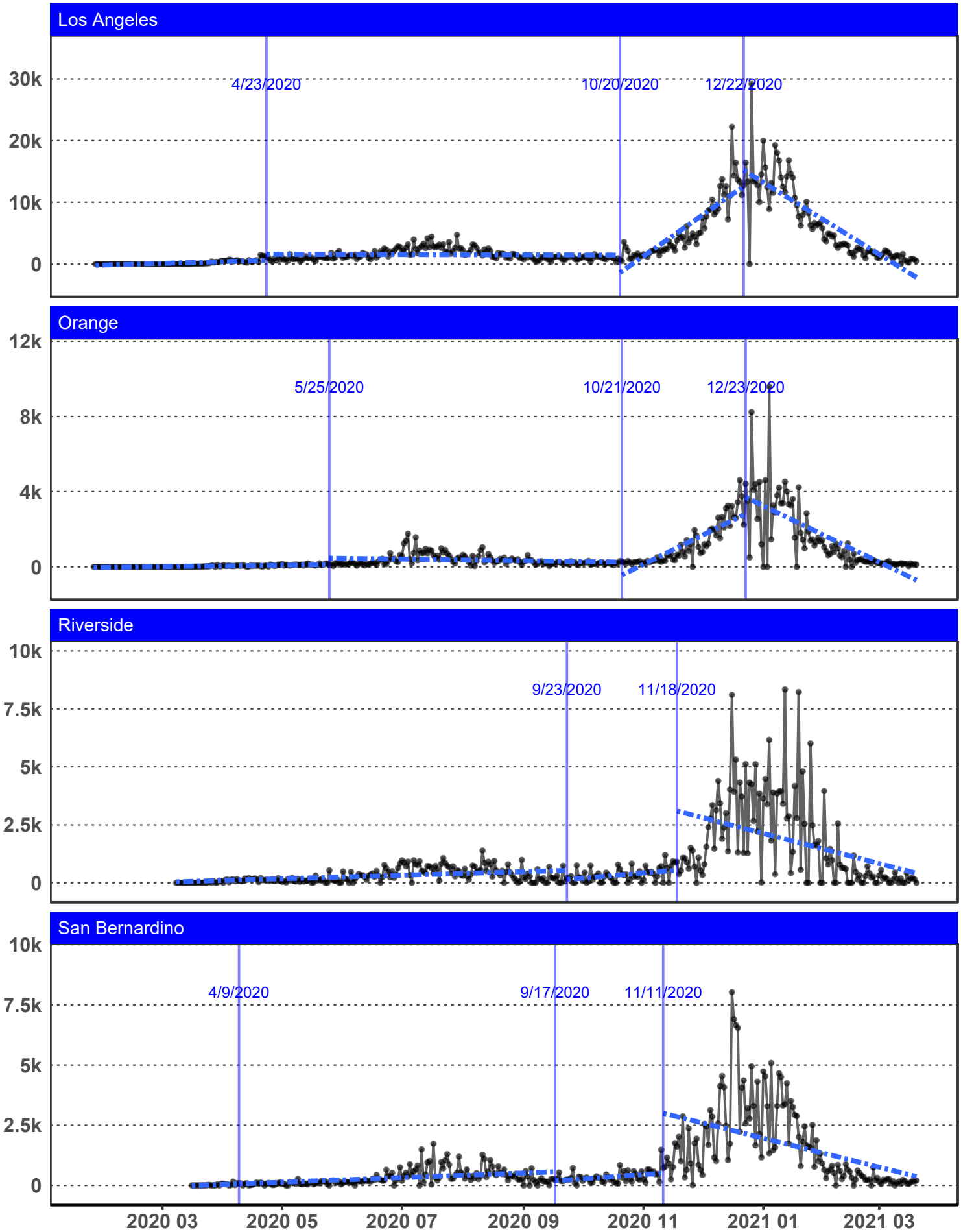
Structural change analysis of daily new cases

blue lines with dates reflect when there was a break in the trend for each county

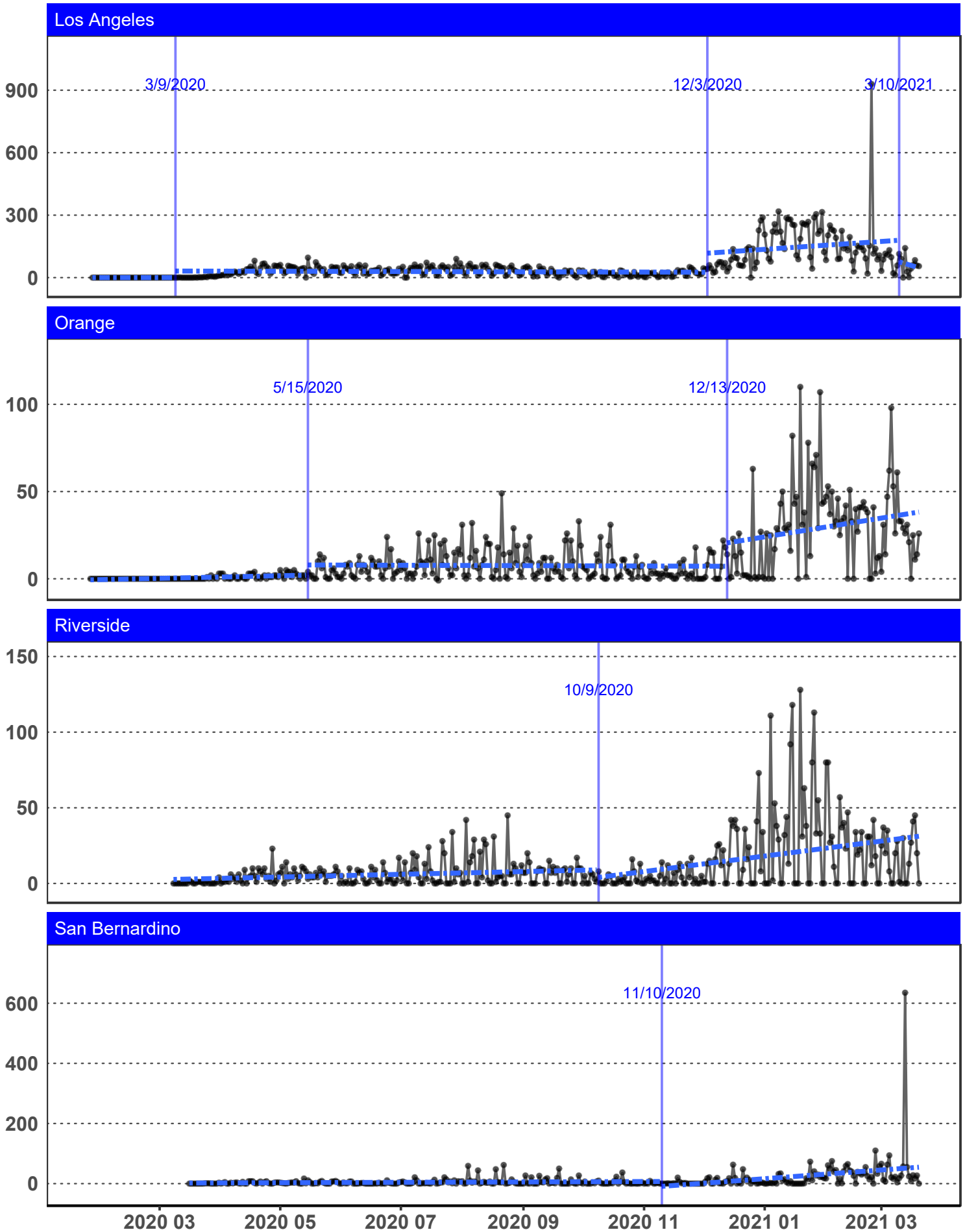


Note: new break trends can developed as new daily counts are included.

Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-03-21 (Covid19)

Structural change analysis of daily new deaths

blue lines with dates reflect when there was a break in the trend for each county



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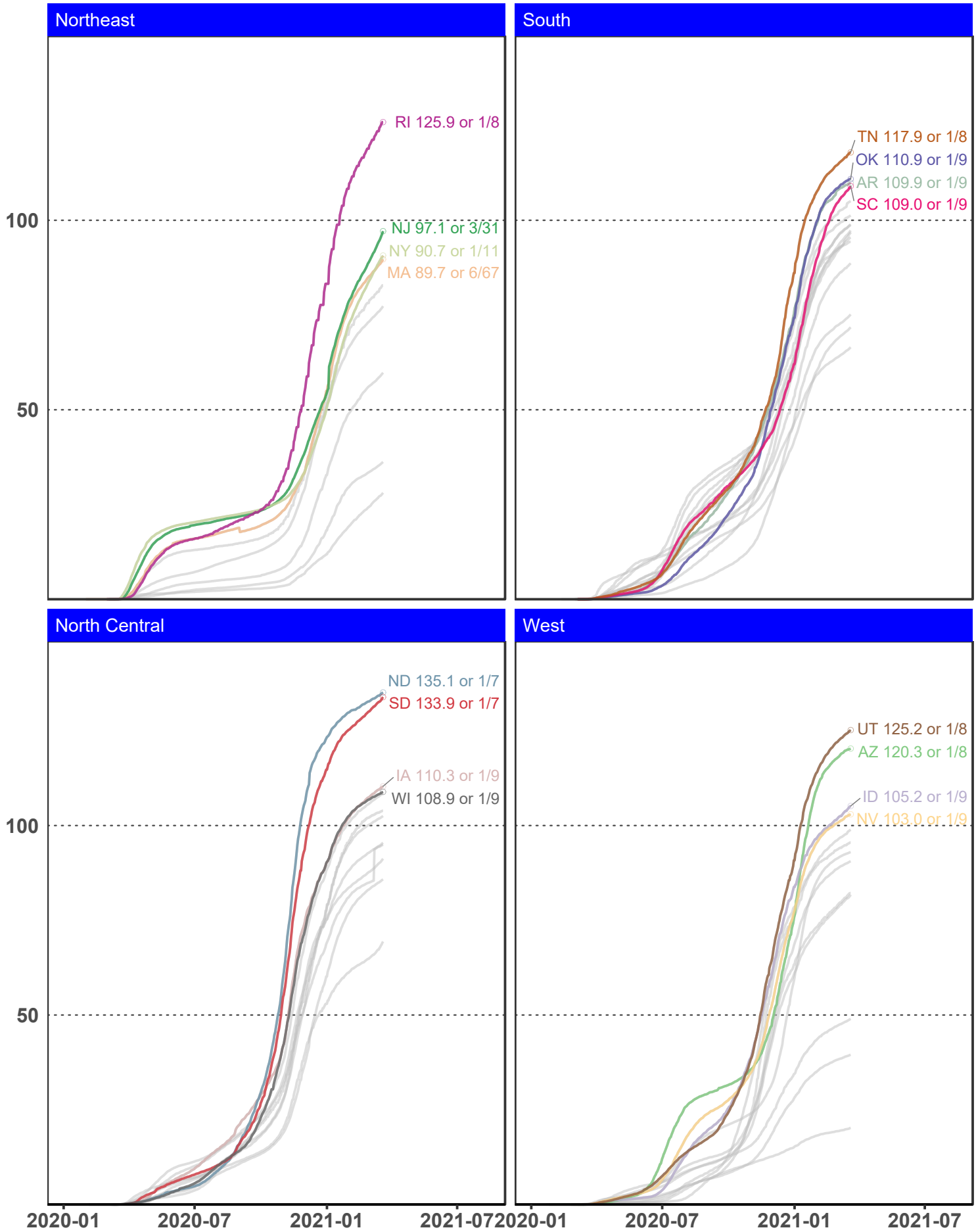
Cummulative cases per 1k persons by state region

the four highest states by region are highlighted



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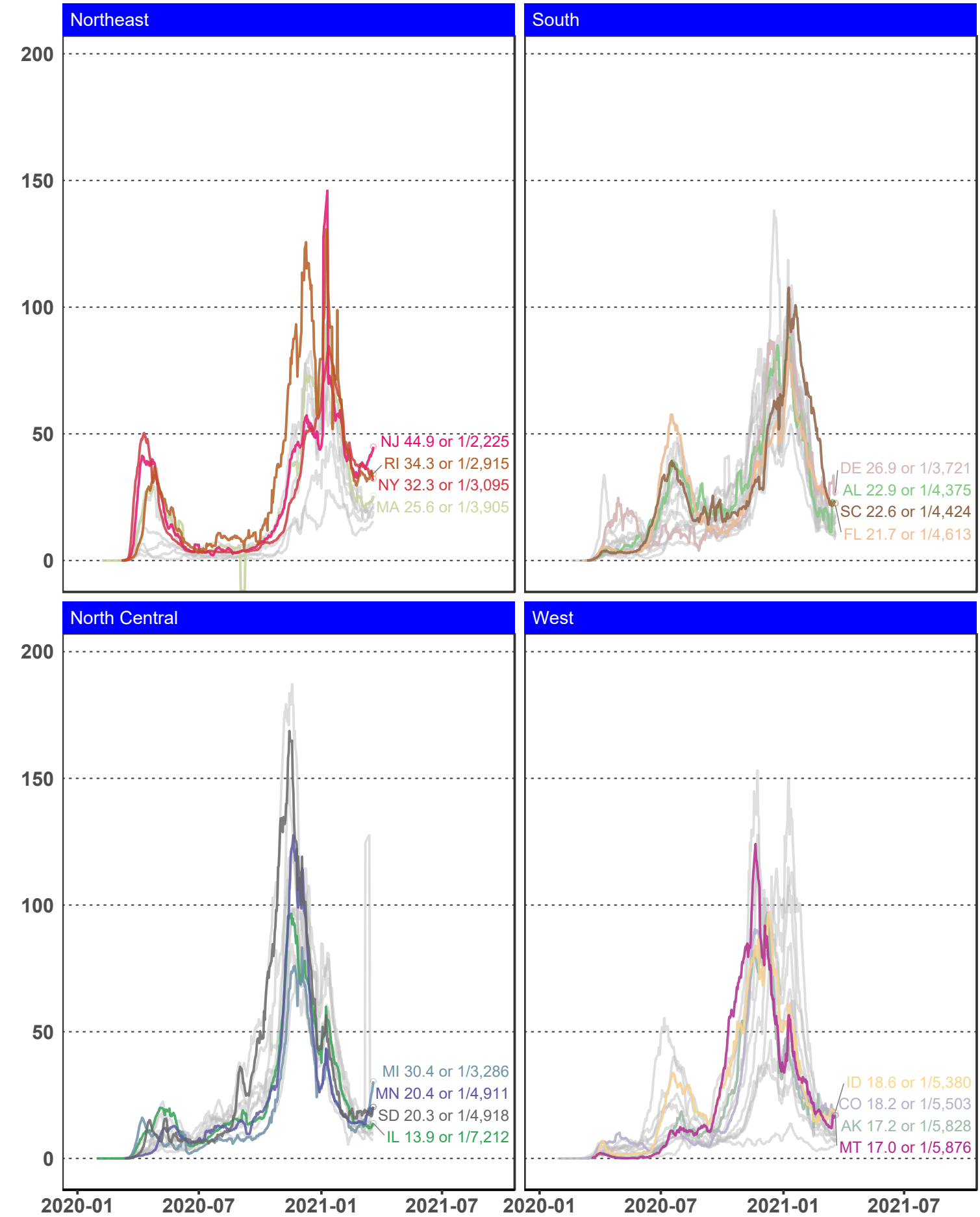
U.S. Census Bureau; American Community Survey, 2014-2018 5-year Estimates,
Table B01003_001 TOTAL POPULATION; generated with tidycensus R package.

7-day rolling average of daily cases per 100k persons by state region

the four highest states by region are highlighted



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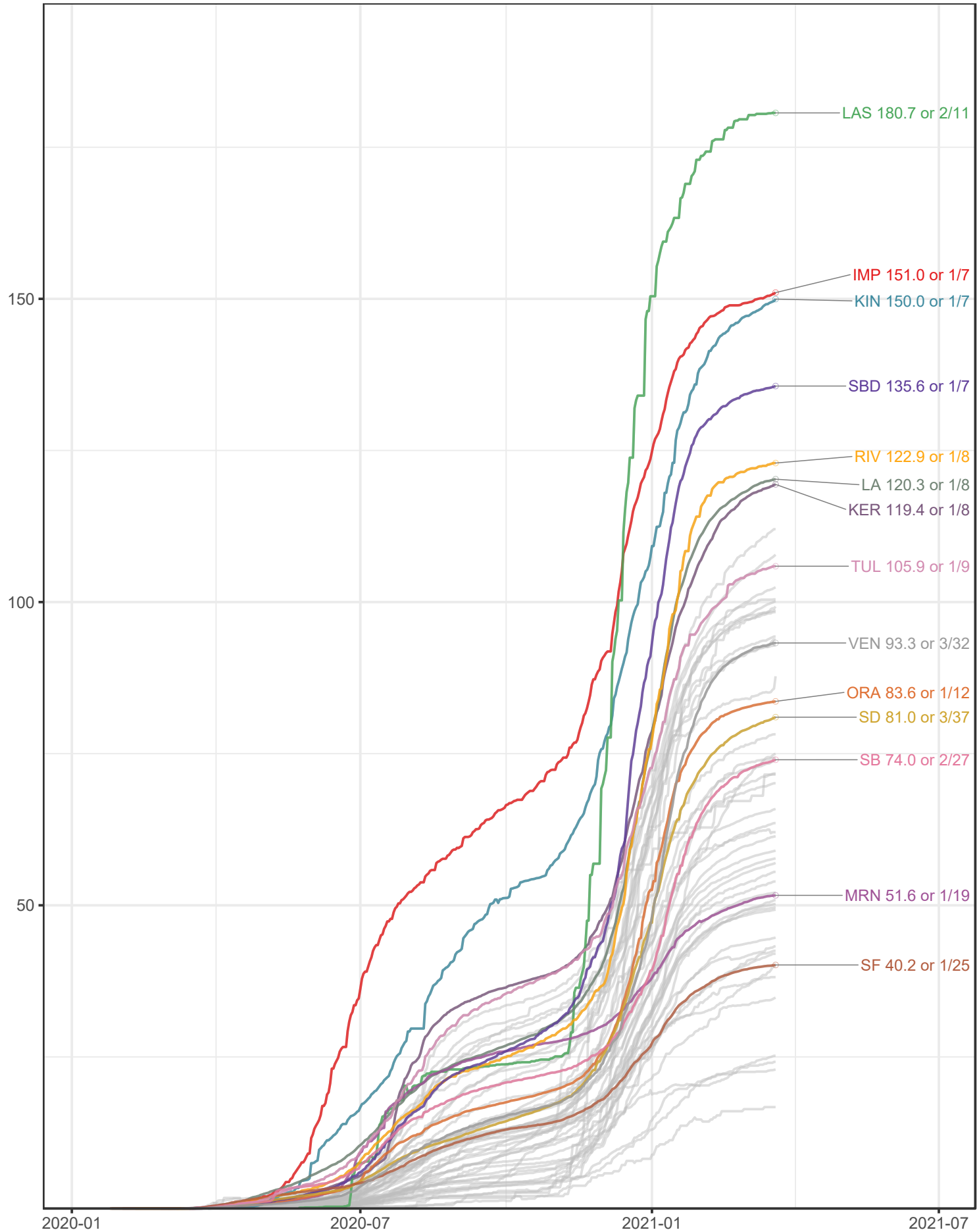
Cummulative cases per 1k persons for California counties

selected counties highlighted



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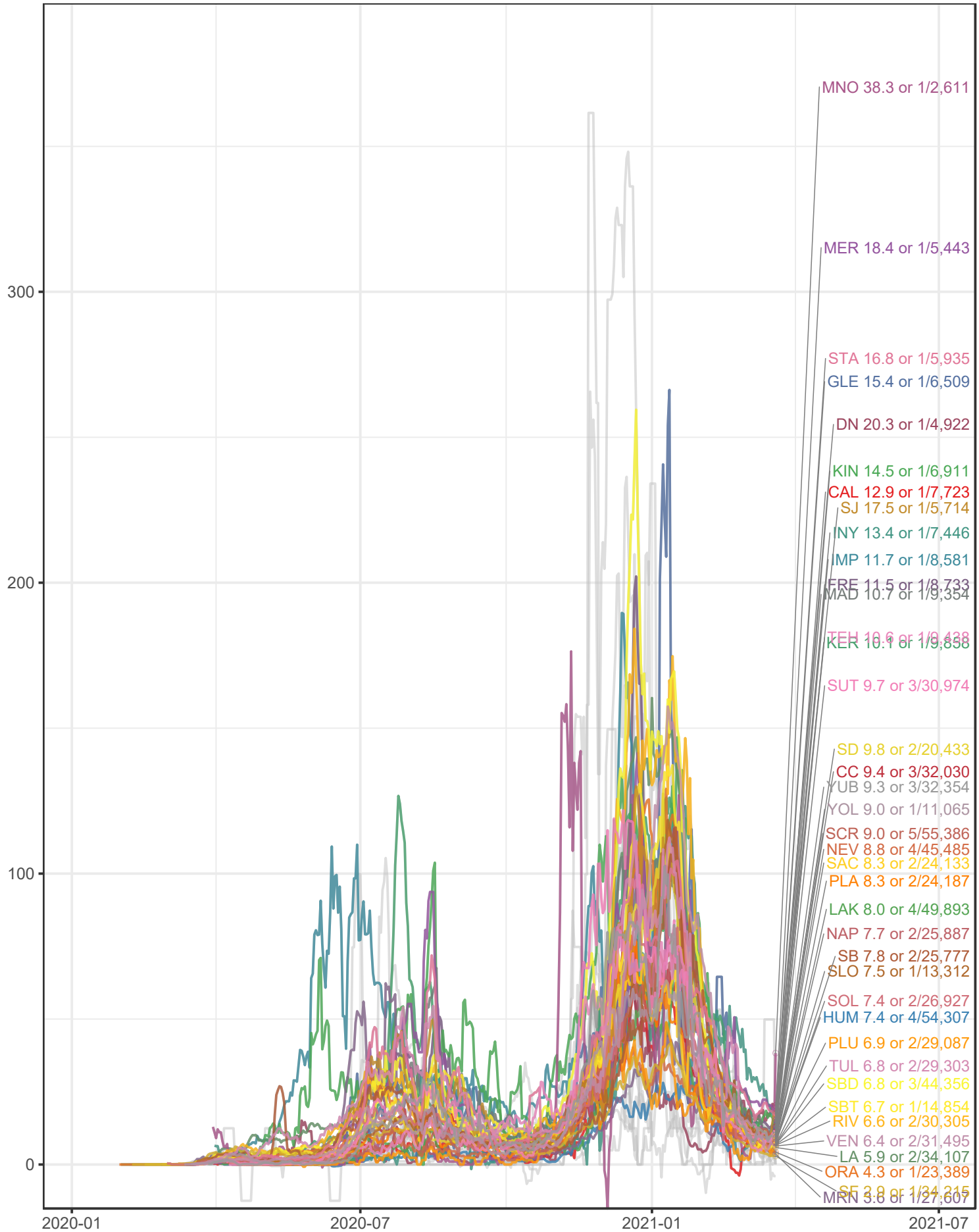

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