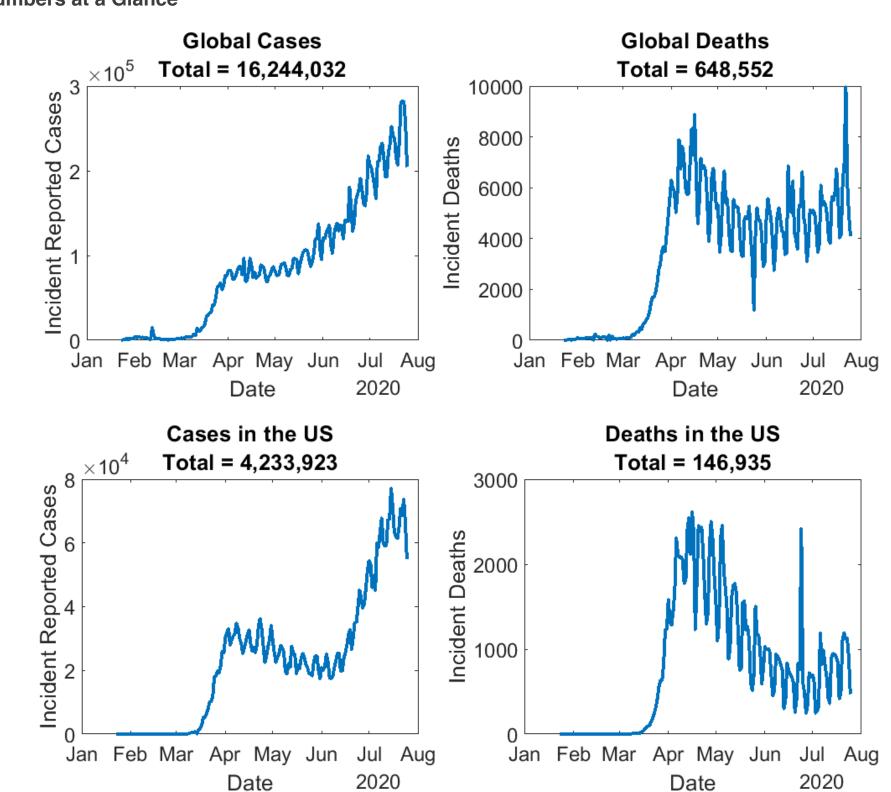
[Last Updated July 27, 2020]

The Numbers at a Glance

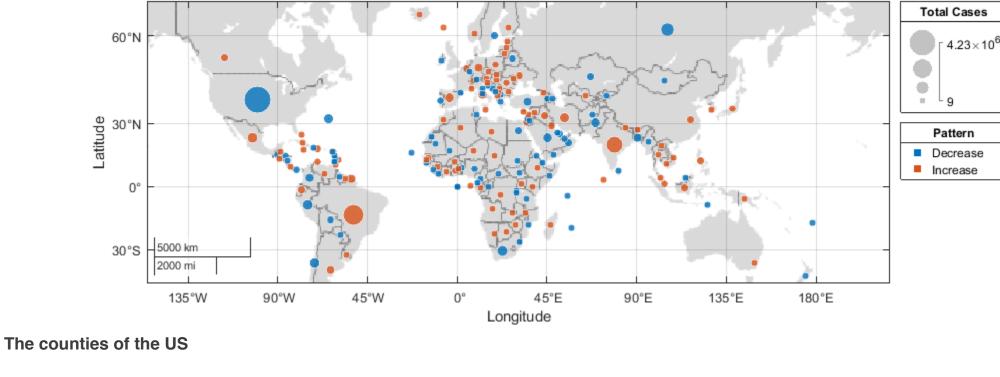


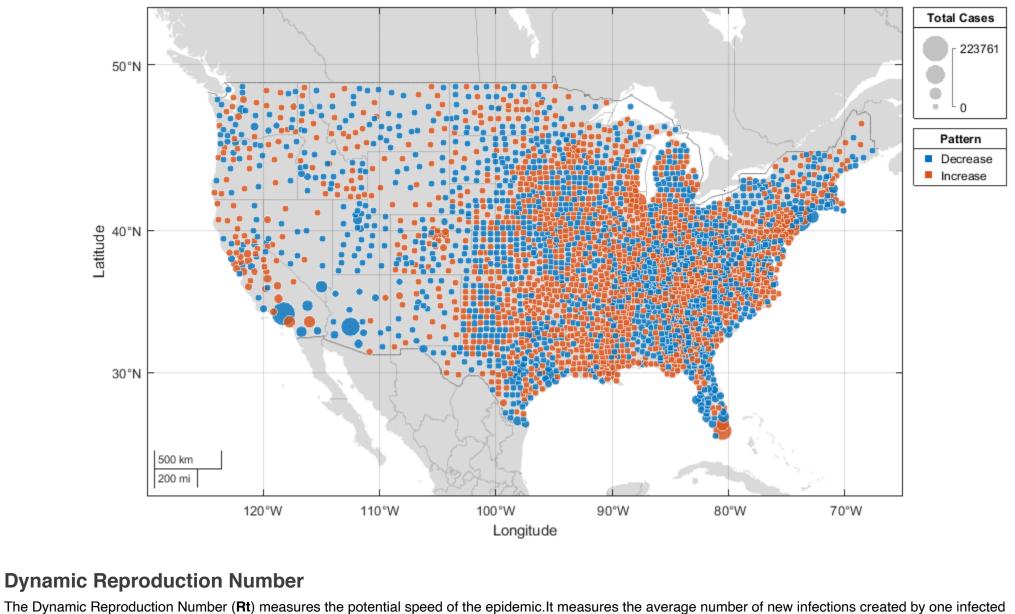
Which regions are seeing an increase in new cases and which ones are seeing a decrease? In the following maps, the size of the bubble represents the number of

COVID-19 on the Map

reported cases in the region (country or county). The orange colored bubbles represent an increase in the weekly number of new cases. The blue colored bubbles represent a decrease in the weekly number of new cases.

The World





60°N

less than one infection on an average. i.e., Rt < 1, the epidemic will slow down and die out. Note: Rt is "learned" from a model. Therefore, the numbers you see here may differ slightly from those shown by other sources due to difference in modeling techniques. **Latest Reproduction Number on the World Map**

individual. An epidemic will rise quickly if each infected individual were to create more than one infections, i.e., Rt > 1. On the other hand, if each infected individual creates

The following map shows the potential severity in all the countries, measured in terms of where the latest Rt value stands for each country. In addition, the size of the bubbles represents the number of new cases in the last week. A red bubble is likely to expand, while a green bubble is likely to shrink in the near future.

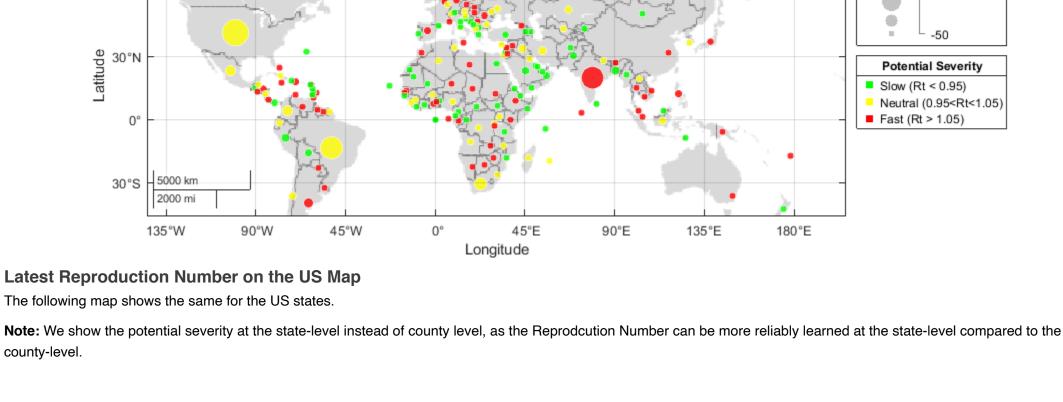
The ideal scenario should be a small green bubble, suggesting that the epidemic is close to disappearing. On the other hand, the worst scenario would be a large red bubble, which would indicate that even though a large number of new cases have been seen recently, this number is likely to further increase.

New Cases

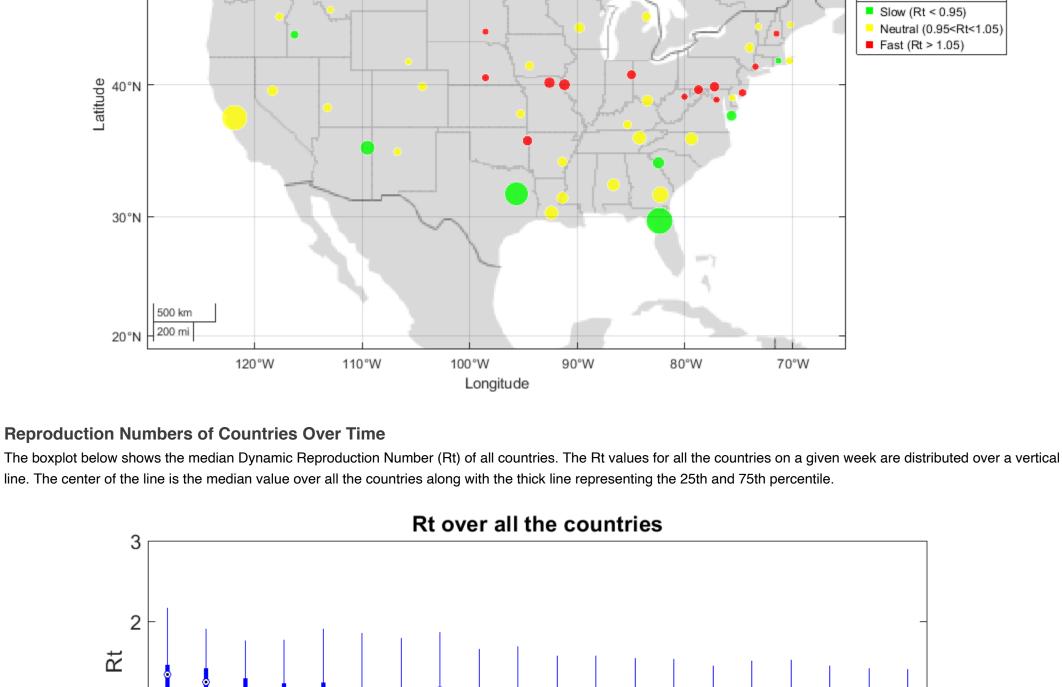
460663

New Cases

Potential Severity



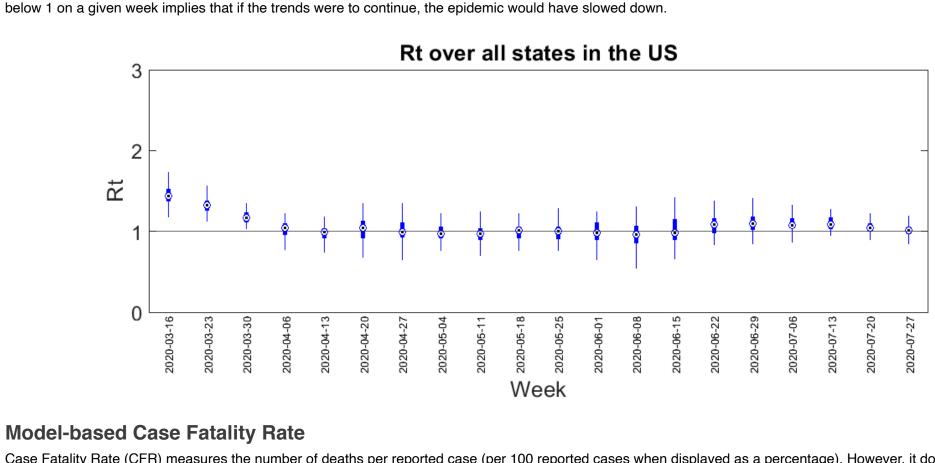
73808 50°N



Reproduction Numbers of US States Over Time

2020-03-16 2020-03-23 2020-03-30 2020-04-06 2020-04-13 2020-04-20 2020-05-18 2020-05-25 2020-07-06 2020-07-13 2020-04-27 2020-05-04 2020-05-11 2020-06-08 2020-06-15 2020-06-22 2020-06-29 2020-07-27 2020-06-01 Week

The boxplot below shows the median Dynamic Reproduction Number of all US states along with the thick line representing the 25th and 75th percentile. A value of Rt



probability of death in such a scenario.

number of new cases in the last week.

MFR on the World Map

other sources may report slightly different results.

A large red bubble is the worst case, which is expected to lead to large number of deaths.

Model-based Case Fatality Rate Case Fatality Rate (CFR) measures the number of deaths per reported case (per 100 reported cases when displayed as a percentage). However, it does not precisely indicate the chances of a reported case leading to a death, as their is a lag between an individual being positive and then dying. For instance, if a region has recently seen a fast rise in the positive cases, then it is likely that many deaths will be reported in the next few weeks but have not been observed yet. CFR will underestimate the

Here, we show Model-based Case Fatality Rate (MFR), which measures the probability of a reported case leading to a death. Note that this is learned using our model, and

The following map shows the expected fatality measured in terms of where the latest MFR value stands for each country. In addition, the size of the bubbles represents the

New Cases

60°N 4.23×10^{6} ٠ Latitude 30°N Expected Fatality Low (< 2%) Medium (2% - 4%) ■ High (> 4%) 0° 30°S 5000 km 2000 mi 135°W 90°W 0° 45°E 90°E 135°E 180°E 45°W Longitude MFR on the US Map The following shows the same for the US states.

