COVID-19 Report

Carlos Delgado Salas

Report Date: March 31 2021

You can contact me here!

Datasets

This document shows visualizations of the rate of infection of COVID 19 in different places. This document was put together on 2021-03-31. The data sources come from github repositories of:

- Johns Hopkins CSSE

- CovidTracking.com by The Atlantic

- New York Times

- Our World in Data

All graphs have been converted to colorblind friendly palette (thaks for the feedback!)

Vaccination

## Percent of the population vaccinated by Regions

Total COVID-19 vaccines administered in the world by population. Each region has latest available data.

Percentage of population vaccinated by region

Region	Percent
Northern Europe	33.27%
Northern America	27.34%
Western Europe	11.48%
Southern Europe	10.72%
Western Asia	8.57%
Eastern Asia	6.98%
Eastern Europe	5.95%
Latin America and the Caribbean	5.37%
World	4.2%
Southern Asia	3.22%
Northern Africa	1.81%
South–eastern Asia	1.52%
Oceania	0.47%
Sub–Saharan Africa	0.21%
Central Asia	0.12%

Percent of population vaccinated
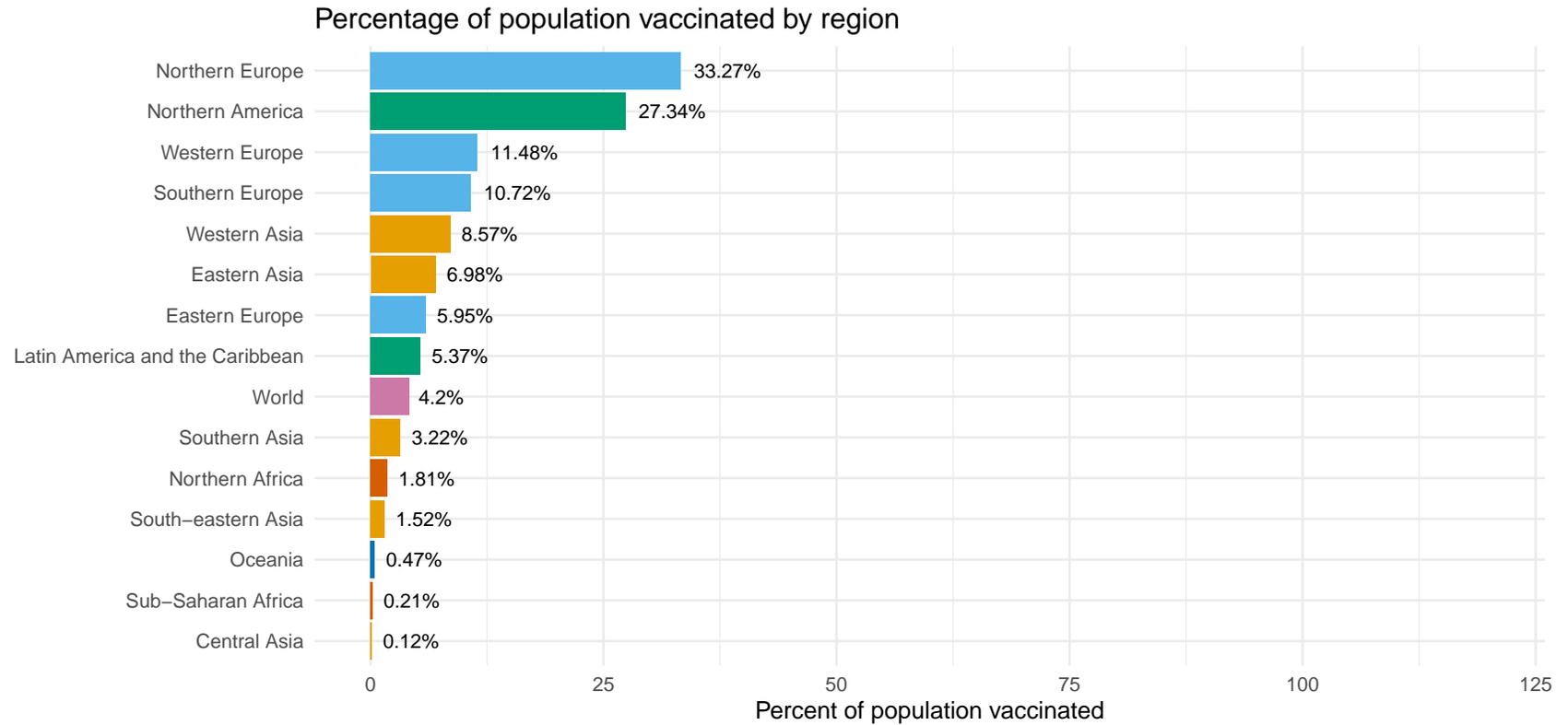
Source: Our World in Data
Author: Carlos Delgado Salas

Daily vaccination by Regions

Total COVID-19 vaccines administered daily in the world by region. A loess model is fitted to get the average vaccination by region.

Daily COVID−19 vaccinations by region
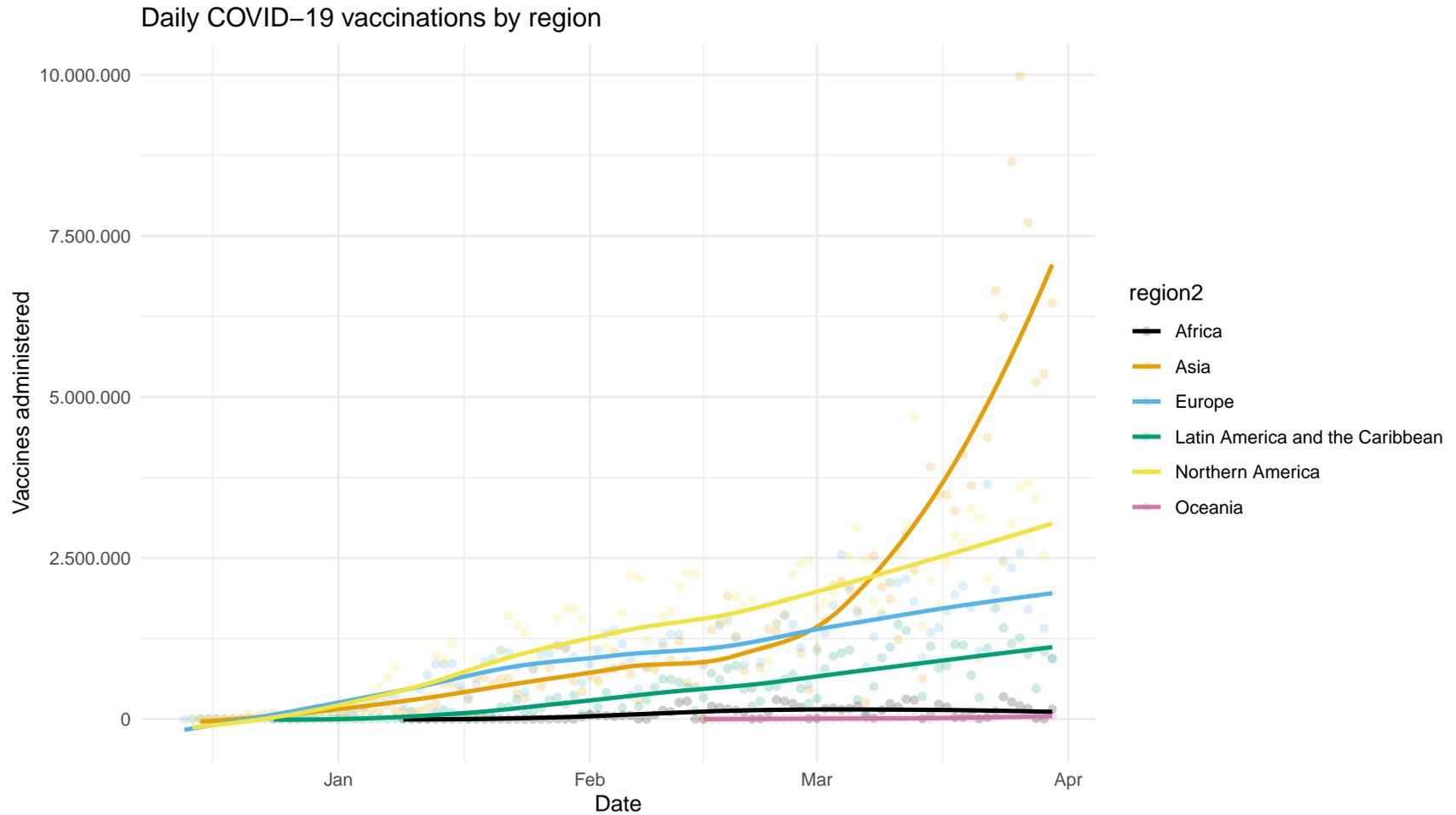
Source: Our World in Data
Author: Carlos Delgado Salas

Total COVID-19 vaccines administered in the world by country in North America, Latin America and Caribbean. Each country has latest available data.

Total COVID-19 vaccines administered in the world by country in Europe. Each country has latest available data.


location	total_vaccinations_per_hundred
Wales	58.29 (Mar 29, 21)
England	51.58 (Mar 29, 21)
Scotland	50.79 (Mar 29, 21)
Northern Ireland	46.09 (Mar 29, 21)
Monaco	46.07 (Mar 19, 21)
Malta	42.15 (Mar 29, 21)
Serbia	35.58 (Mar 30, 21)
San Marino	33.2 (Mar 30, 21)
Hungary	28.61 (Mar 30, 21)
Northern Cyprus	25.63 (Mar 25, 21)
Iceland	19.39 (Mar 29, 21)
Estonia	19.24 (Mar 29, 21)
Denmark	18.7 (Mar 29, 21)
Lithuania	18.2 (Mar 30, 21)
Slovakia	17.55 (Mar 30, 21)
Austria	17.42 (Mar 29, 21)
Finland	17.17 (Mar 30, 21)
Spain	16.55 (Mar 30, 21)
Switzerland	16.54 (Mar 28, 21)
Norway	16.47 (Mar 29, 21)
Italy	16.42 (Mar 30, 21)
Ireland	16.25 (Mar 27, 21)
European Union	16.23 (Mar 30, 21)
Portugal	16.1 (Mar 30, 21)
Germany	16.09 (Mar 30, 21)
Poland	16.07 (Mar 30, 21)
Greece	16.01 (Mar 30, 21)
Sweden	15.73 (Mar 30, 21)
France	15.72 (Mar 29, 21)
Czechia	15.48 (Mar 30, 21)
Romania	15.42 (Mar 29, 21)
Belgium	15.3 (Mar 29, 21)
Cyprus	14.78 (Mar 20, 21)
Liechtenstein	14.35 (Mar 28, 21)
Luxembourg	14.33 (Mar 28, 21)
Slovenia	14.23 (Mar 23, 21)
Netherlands	13.88 (Mar 28, 21)
Andorra	12.02 (Mar 19, 21)
Croatia	10.48 (Mar 29, 21)
Russia	7.66 (Mar 30, 21)
World	7.41 (Mar 30, 21)
Latvia	7.06 (Mar 30, 21)
Bulgaria	6.6 (Mar 30, 21)
Montenegro	3.24 (Mar 30, 21)
Albania	2.23 (Mar 27, 21)
Moldova	0.84 (Mar 27, 21)
Ukraine	0.53 (Mar 30, 21)
Tunisia	0.45 (Mar 29, 21)
Belarus	0.32 (Mar 12, 21)
North Macedonia	0.25 (Mar 16, 21)

Total COVID-19 vaccines administered in the world by country in Asia. Each country has latest available data.

location	total_vaccinations_per_hundred
Maldives	43.6 (Mar 30, 21)
Singapore	22.54 (Mar 29, 21)
Mongolia	8.85 (Mar 30, 21)
China	7.97 (Mar 30, 21)
World	7.41 (Mar 30, 21)
Hong Kong	6.54 (Mar 30, 21)
Nepal	5.49 (Mar 19, 21)
Azerbaijan	5.03 (Mar 26, 21)
India	4.57 (Mar 30, 21)
Sri Lanka	4.22 (Mar 30, 21)
Indonesia	3.94 (Mar 28, 21)
Bangladesh	3.23 (Mar 29, 21)
Malaysia	1.92 (Mar 29, 21)
Cambodia	1.77 (Mar 24, 21)
South Korea	1.68 (Mar 30, 21)
Japan	0.75 (Mar 30, 21)
Myanmar	0.7 (Feb 05, 21)
Kazakhstan	0.59 (Mar 18, 21)
Laos	0.56 (Mar 17, 21)
Pakistan	0.16 (Mar 14, 21)
Thailand	0.15 (Mar 24, 21)
Vietnam	0.05 (Mar 26, 21)
Taiwan	0.05 (Mar 29, 21)

total_vaccinations_per_hundred

Total COVID-19 vaccines administered in the world by country in Middle East. Each country has latest available data.

Total COVID-19 vaccines administered in the world by country in Africa. Each country has latest available data.
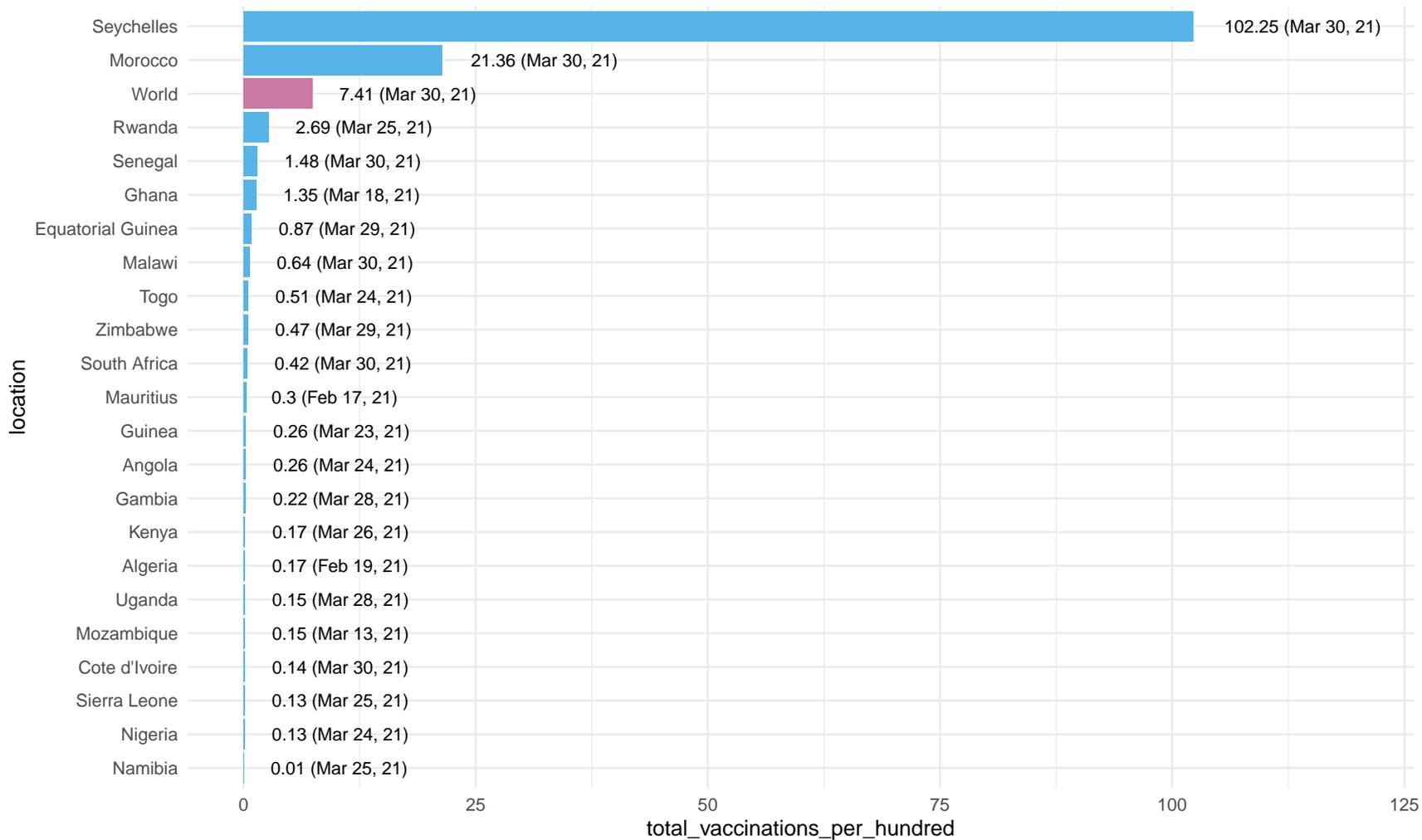
Total COVID-19 vaccines administered in the world by country in Oceania. Each country has latest available data.
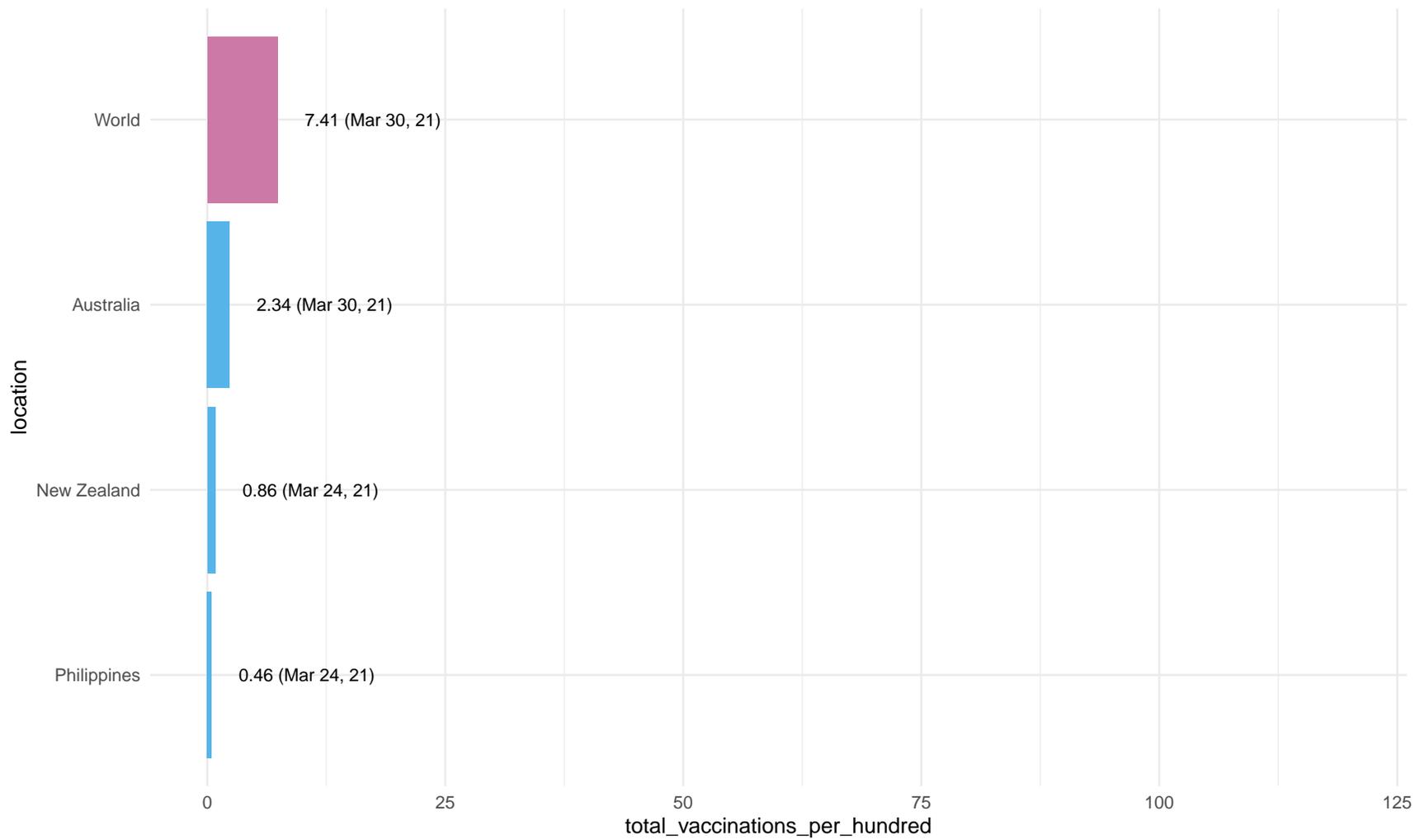
Vaccination evolution in the US

Total COVID-19 vaccines administered in the United States by date.
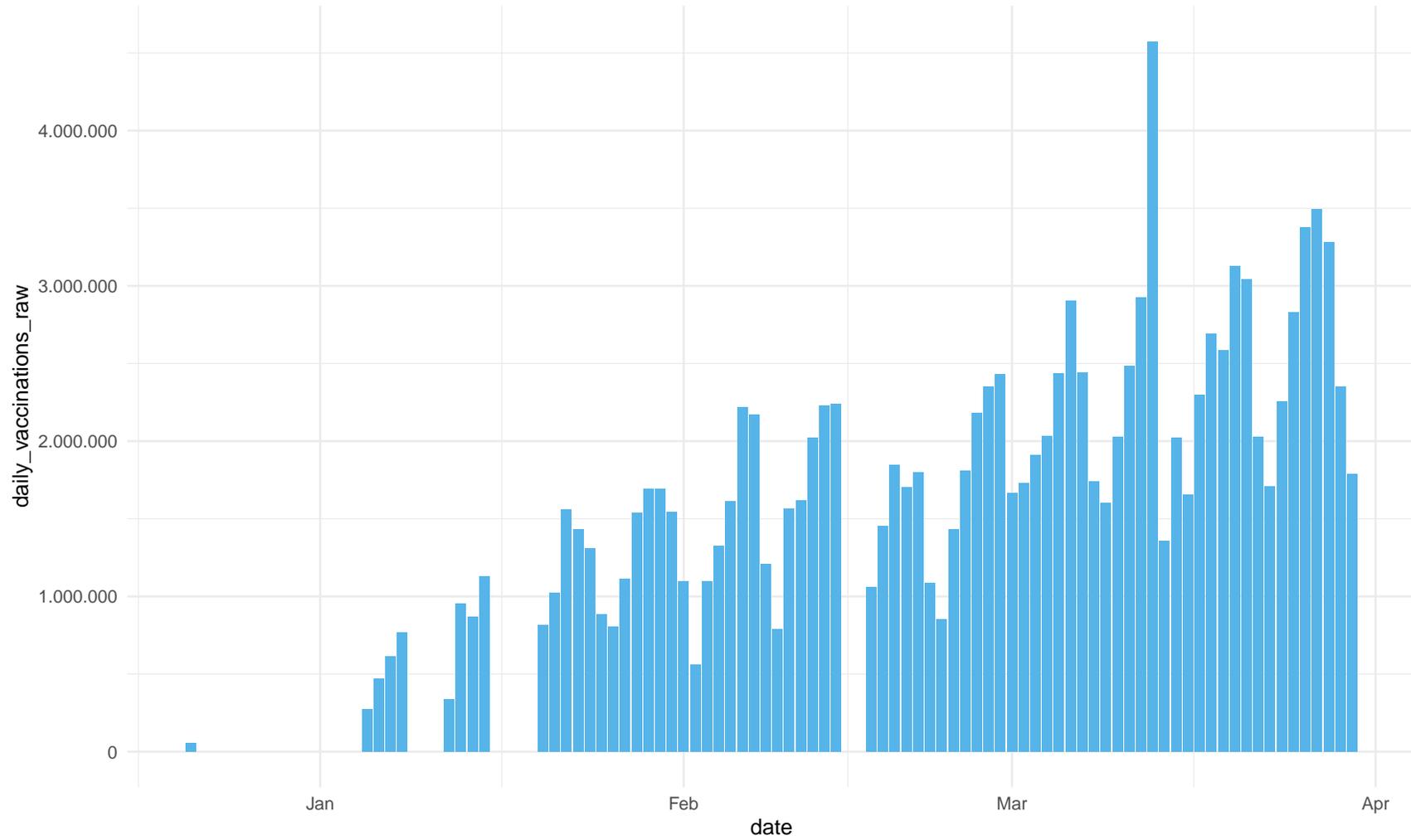
Plots for world

World

Total COVID-19 Cases by 10,000 people as of 2021-03-30

Total cases of infection of COVID-19 in the world.

(The map has a square root transformation to make more contrast between countries refer to legend to match number)
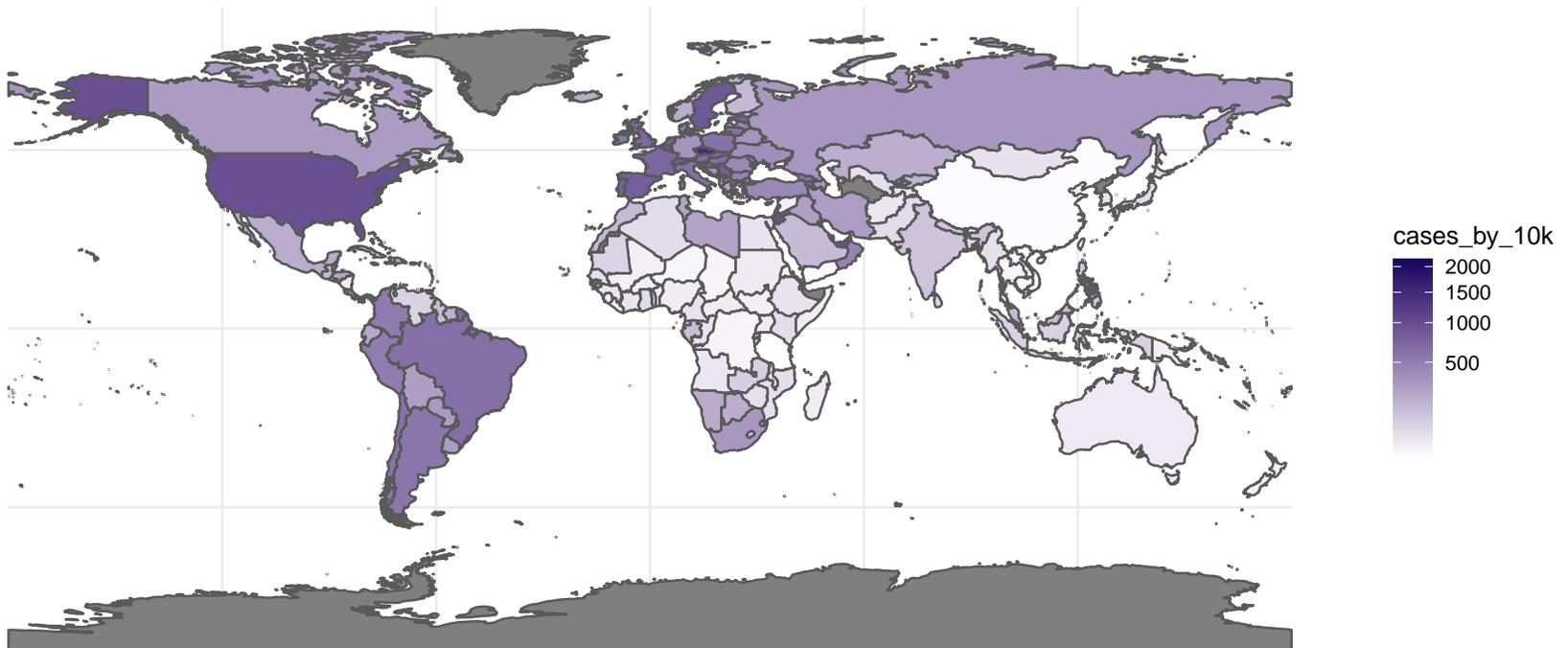
Total COVID-19 Deaths by 100,000 people as of 2021-03-30

Total deaths due to infection of COVID-19 in the world.

(The map has a square root transformation to make more contrast between countries refer to legend to match number)
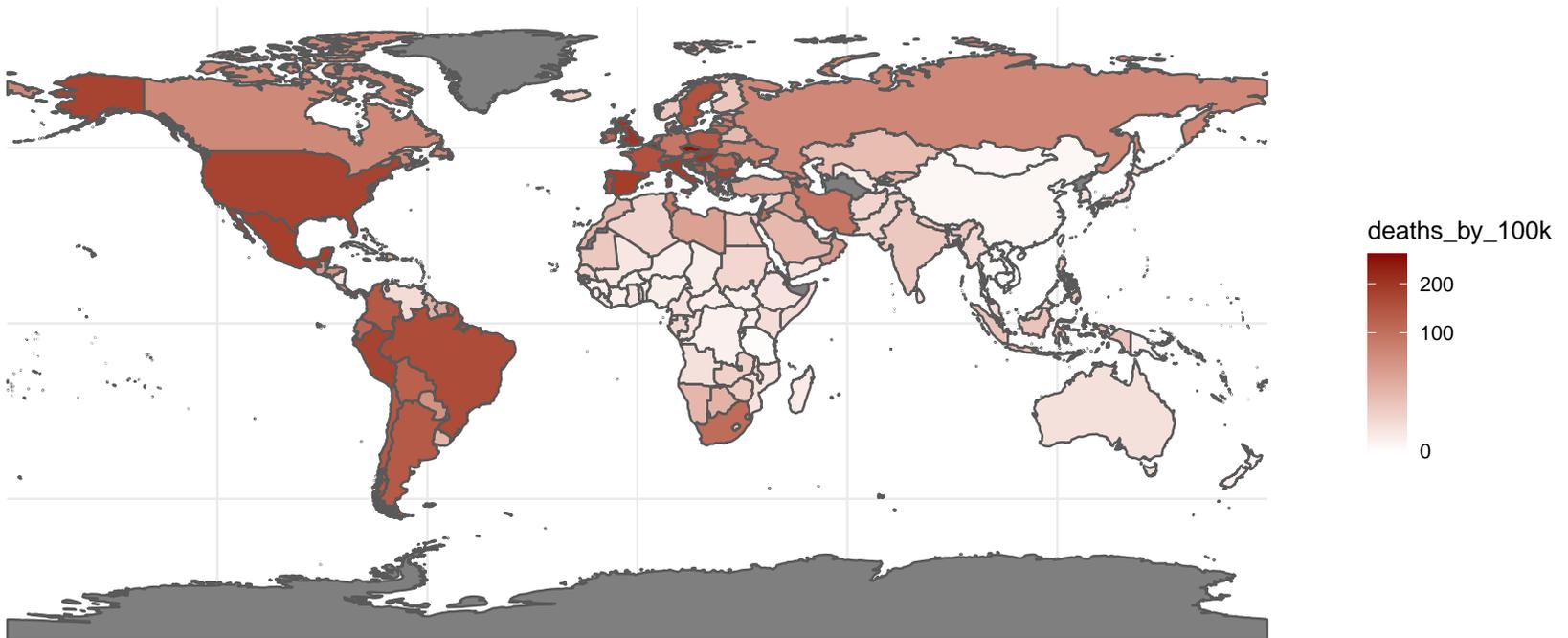
Plots for regions

Regions

Cases and Deaths by Region

Total Cases, Deaths and Mortality Rate by region.

Region_Eng	Total Cases	Total Deaths	Moratlity Rate
Africa	4205028	112575	2.68
Asia	32078076	513088	1.60
Europe	36004933	828177	2.30
Latin America and Caribbean	24691266	778191	3.15
North America	31373814	573907	1.83
Oceania	37637	995	2.64

(The amount of new cases per day are shown in points (transparency added) and a Loess regression curve is fitted into the data to smoothen the curve)
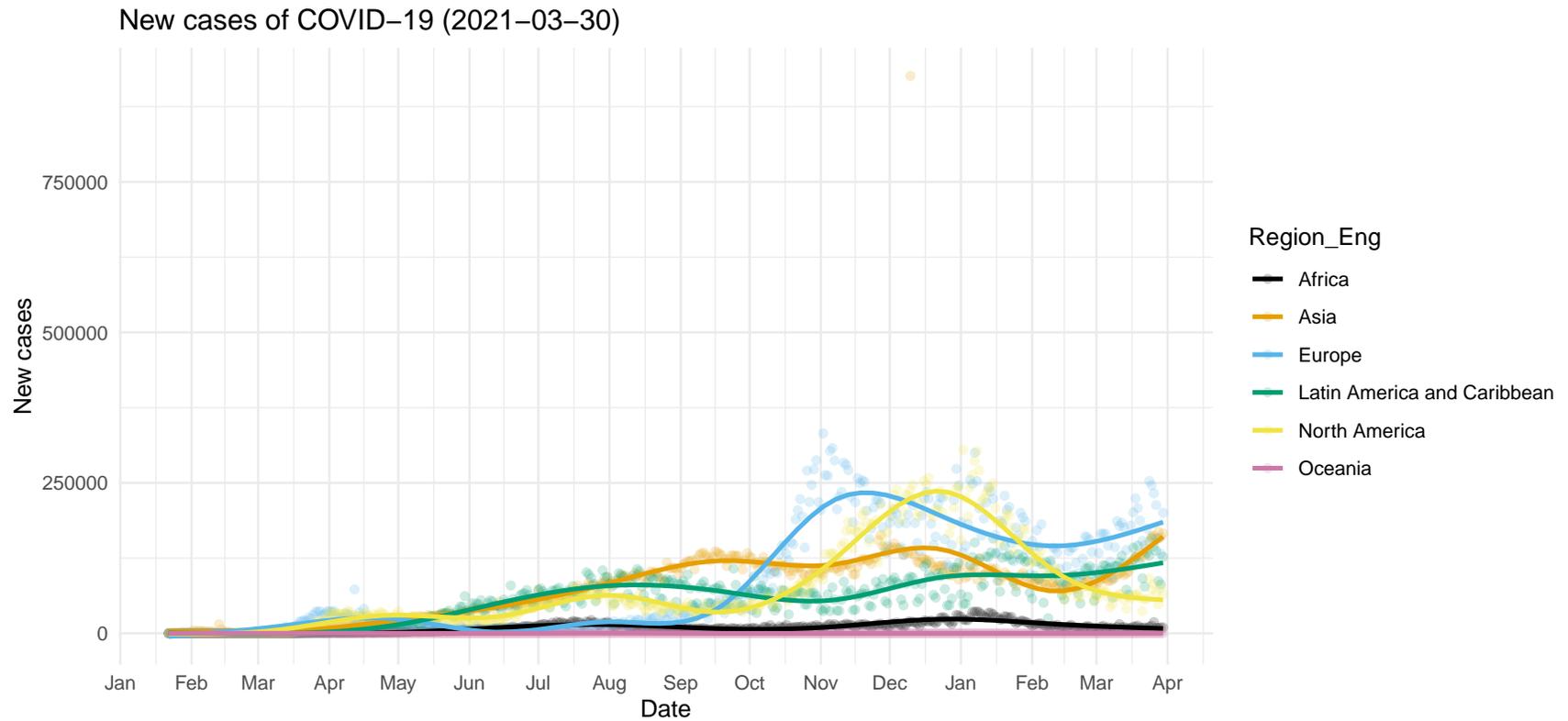
Source: Johns Hopkins University
Author: Carlos Delgado Salas

New deaths due to COVID-19 in world regions.

(The amount of new deaths per day are shown in points (transparency added) and a Loess regression curve is fitted into the data to smoothen the curve)


New deaths of COVID−19 (2021−03−30)
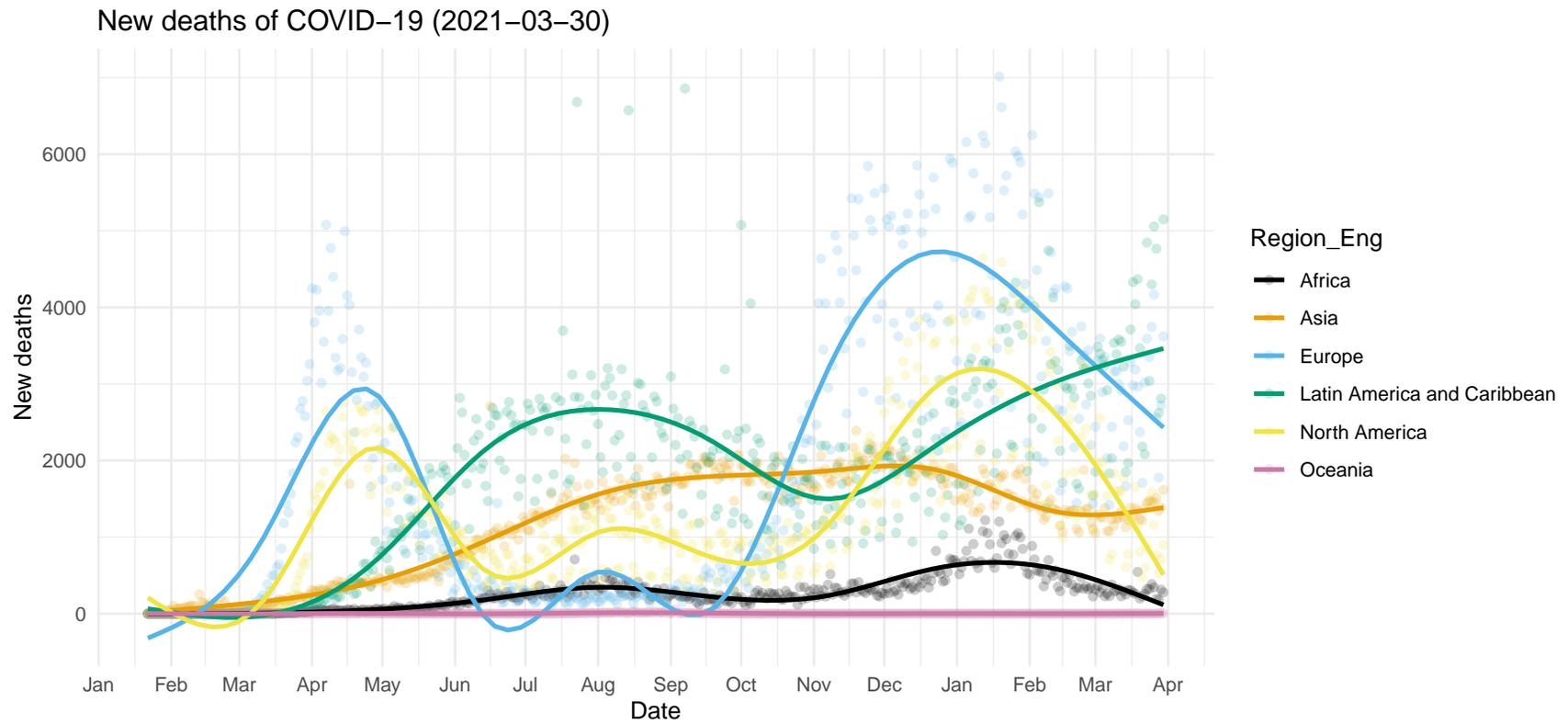
Source: Johns Hopkins University
Author: Carlos Delgado Salas

Mortality rate by Region

The Monthly COVID-19 mortality ratio is calculated as the sum of deaths in a single month, divided by the sum of positive cases in the same month.

Monthly mortality ratio of COVID−19 (2021−03−30)
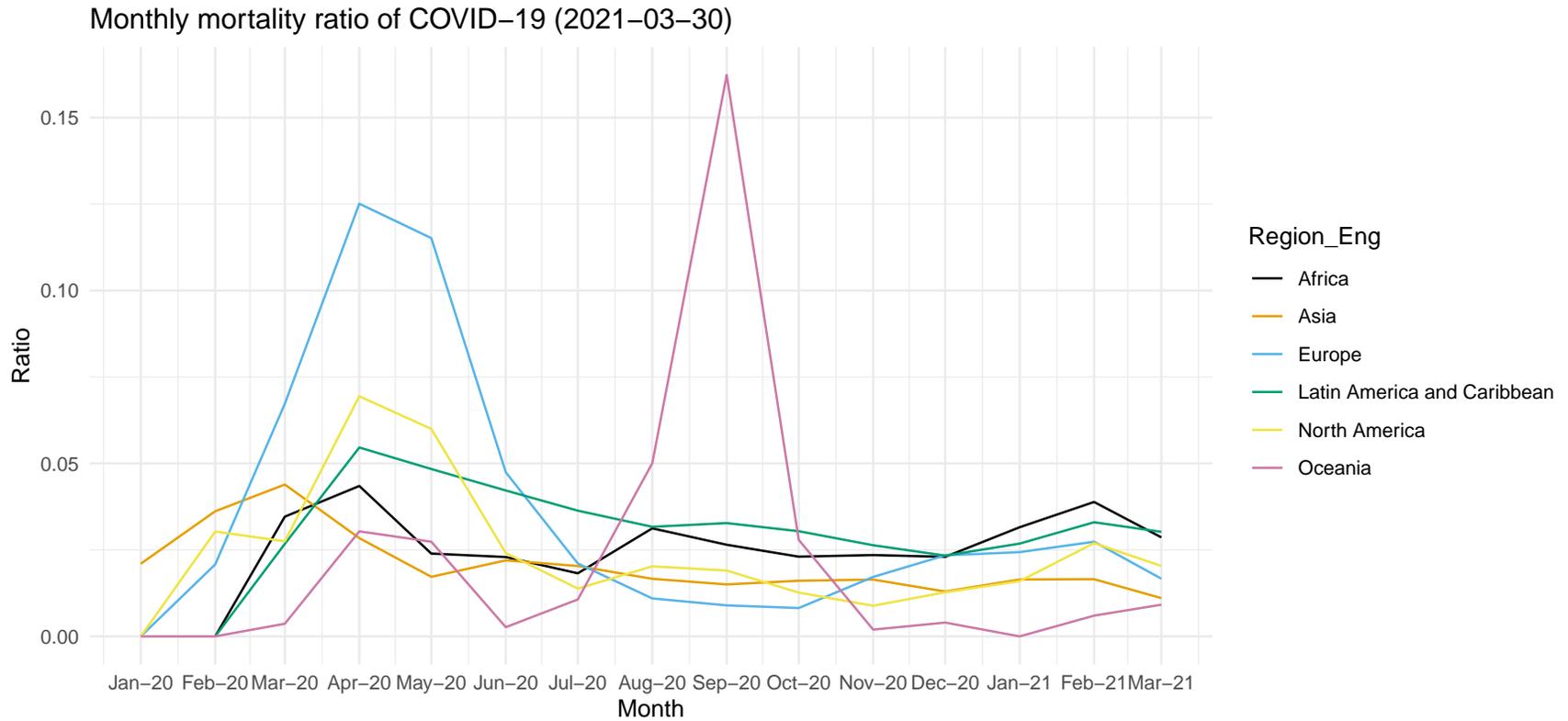
Source: Johns Hopkins University
Author: Carlos Delgado Salas

Plots for countries of interest

Europe

Spain

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Spain 2021−03−30
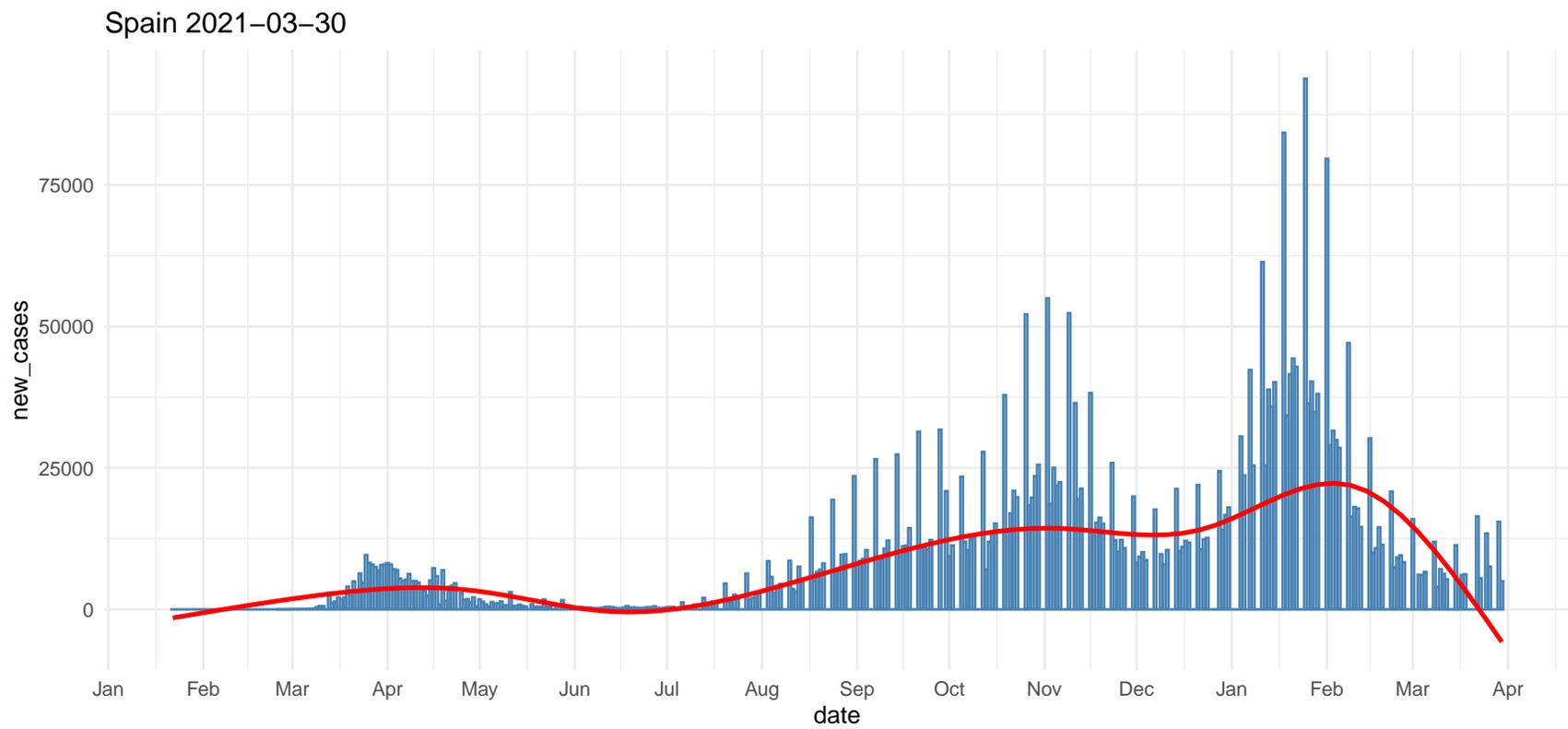
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Italy

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Italy 2021-03-30
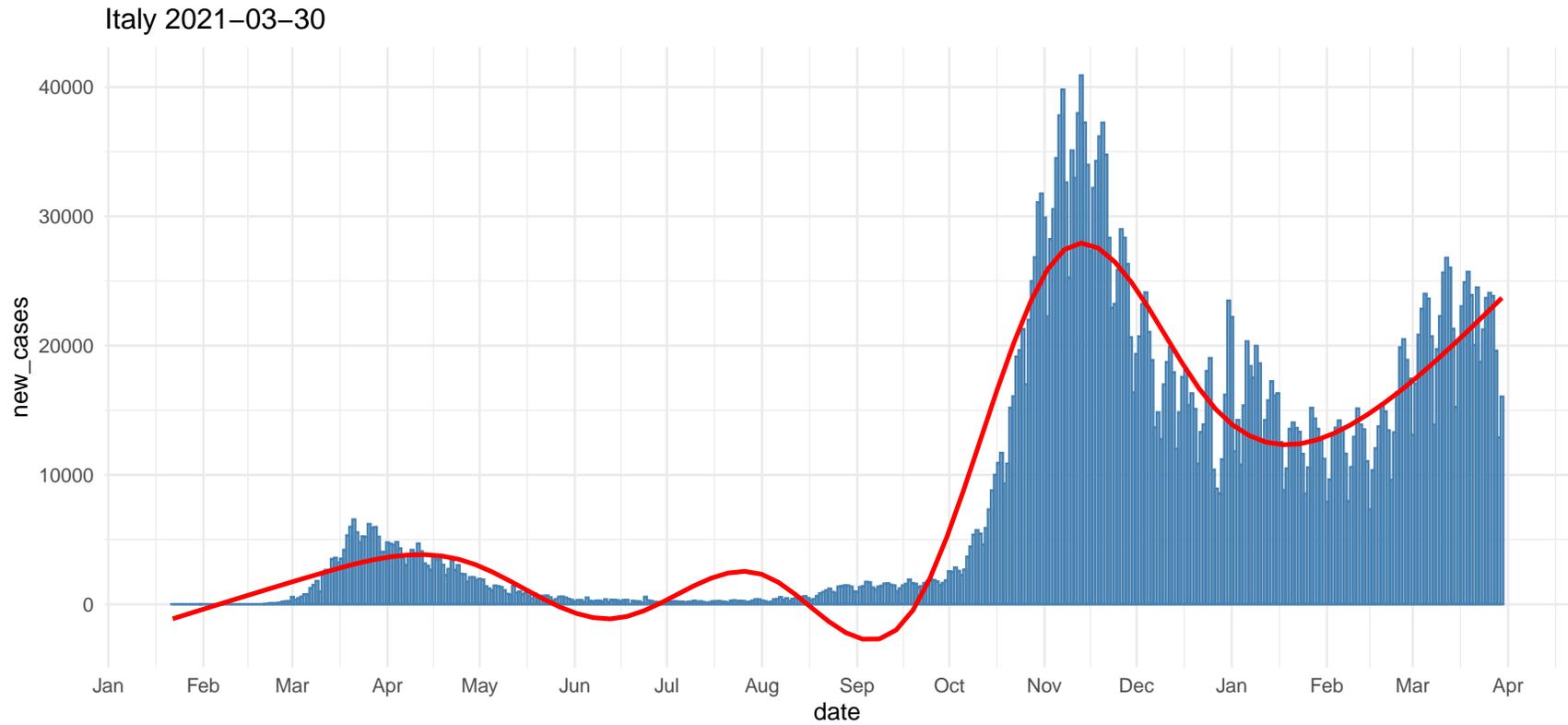
Germany

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Germany 2021–03–30
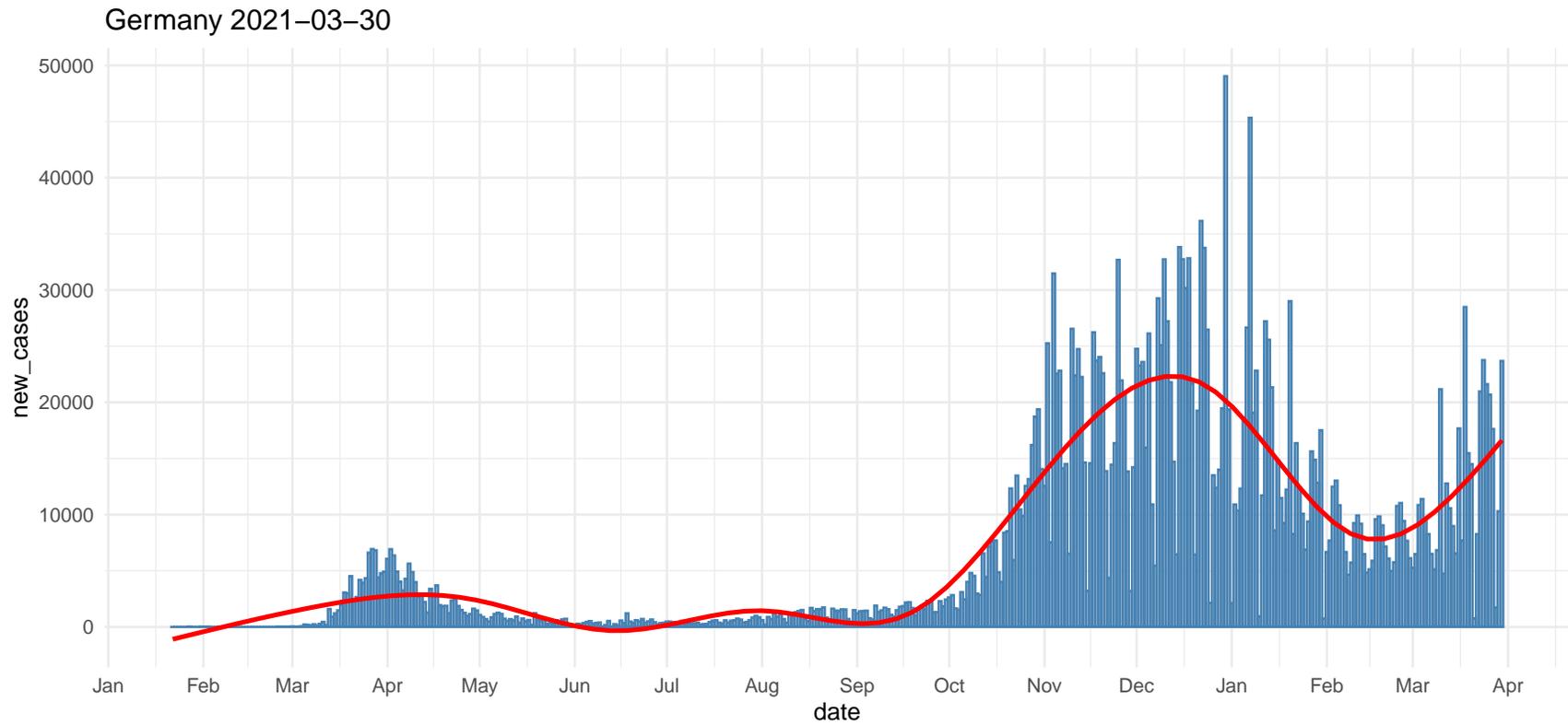
Source: Johns Hopkins University
Created by Carlos Delgado Salas

France

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

France 2021−03−30
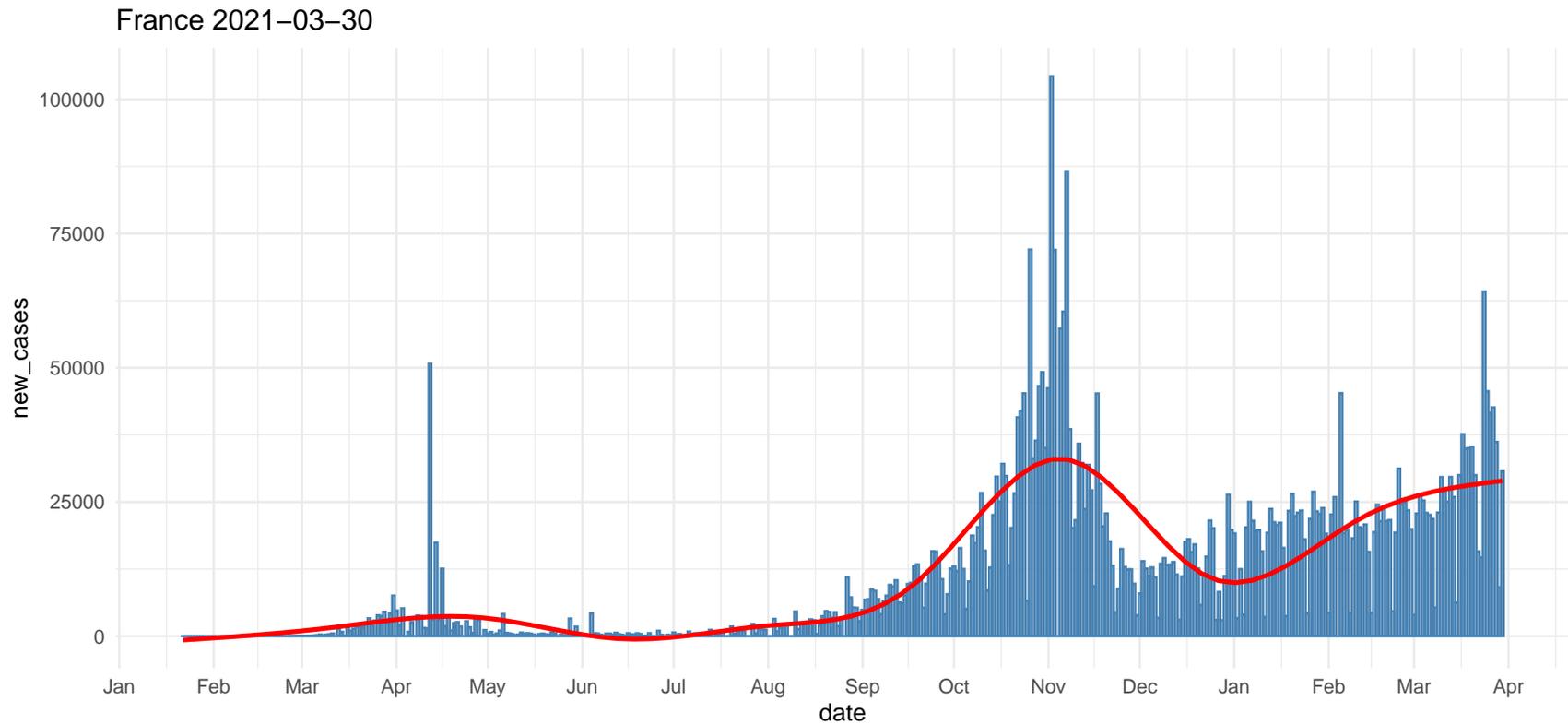
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Portugal

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Portugal 2021−03−30
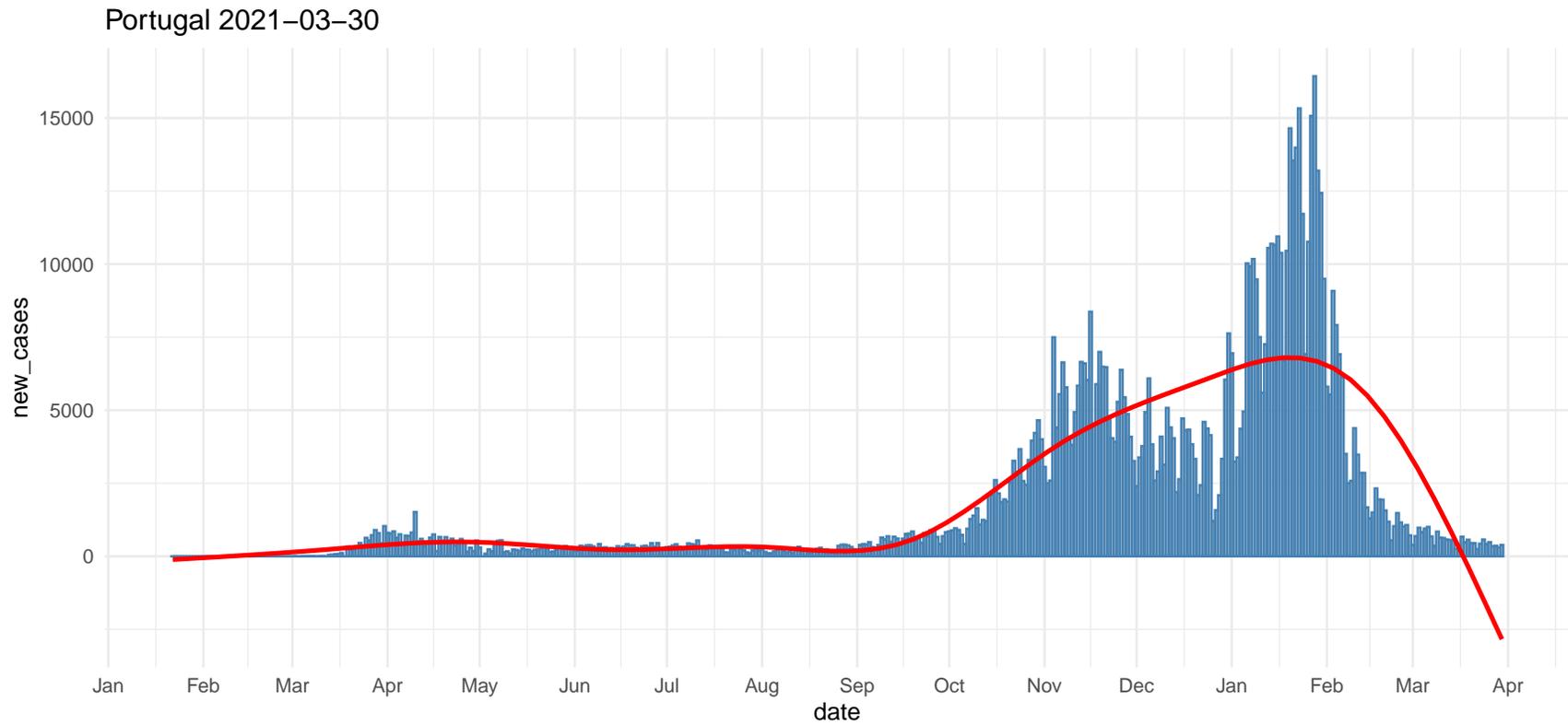
North and South America

USA

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

USA 2021–03–30
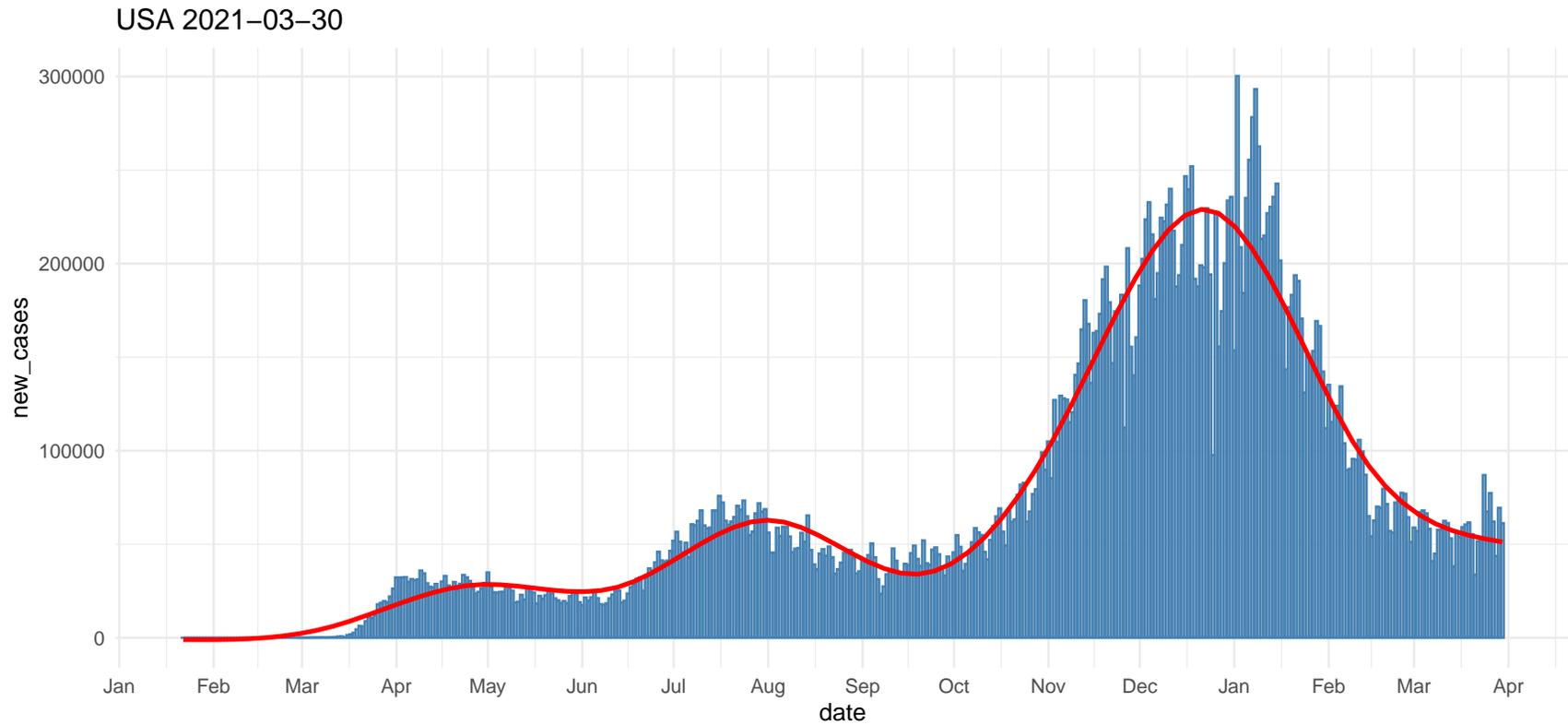
USA deaths

(The amount of new deaths per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

USA deaths 2021−03−30
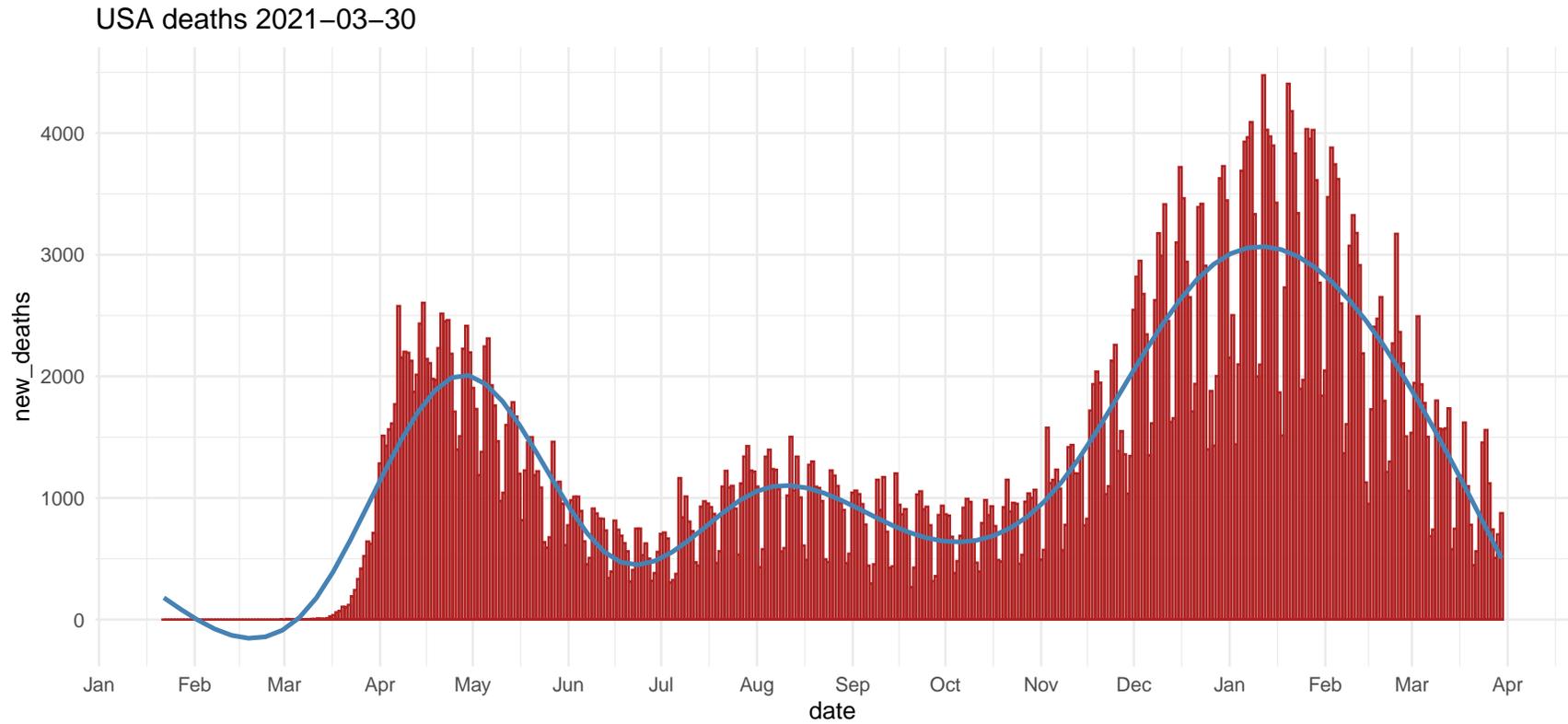
Brazil

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Brazil 2021−03−30
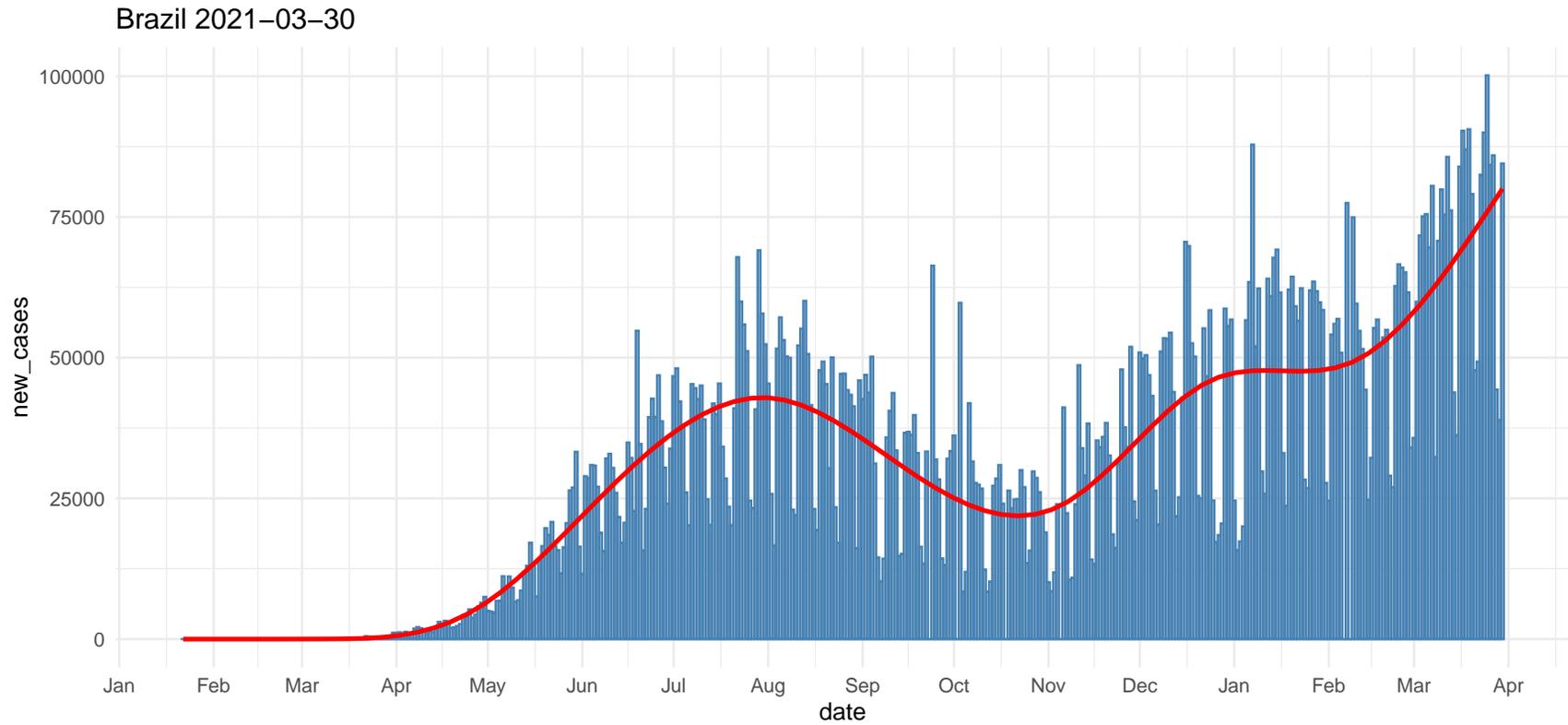
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Venezuela

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)


Venezuela 2021−03−30
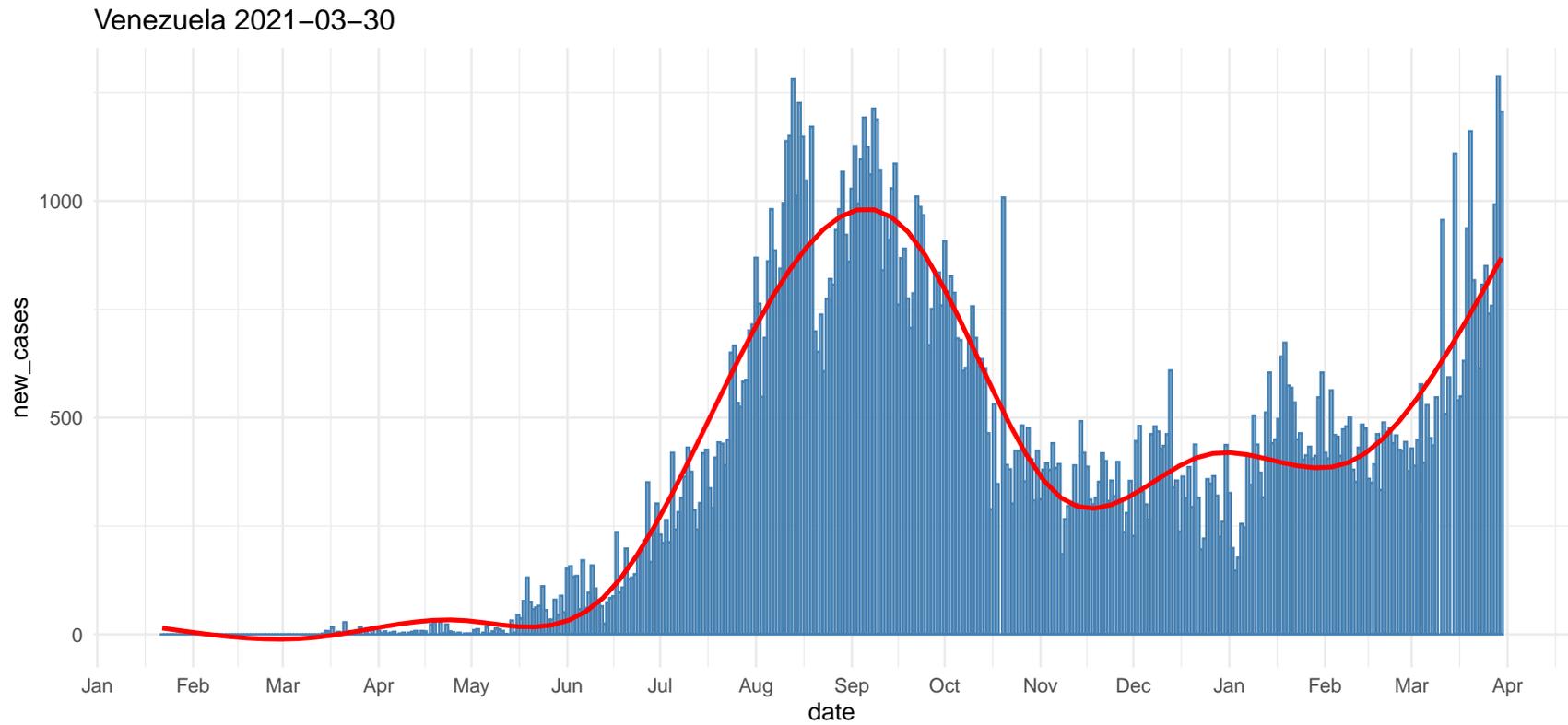
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Colombia

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Colombia 2021−03−30
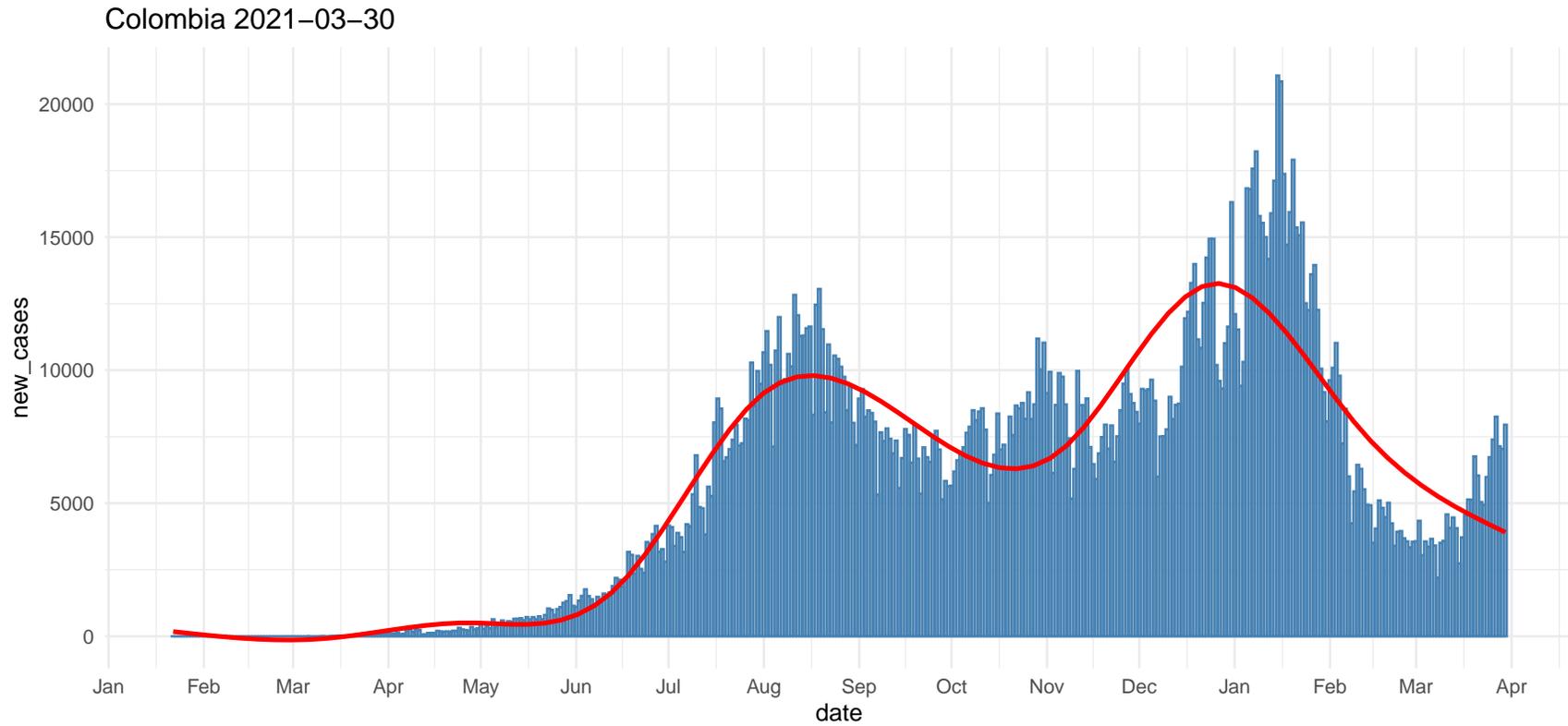
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Mexico

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Mexico 2021–03–30
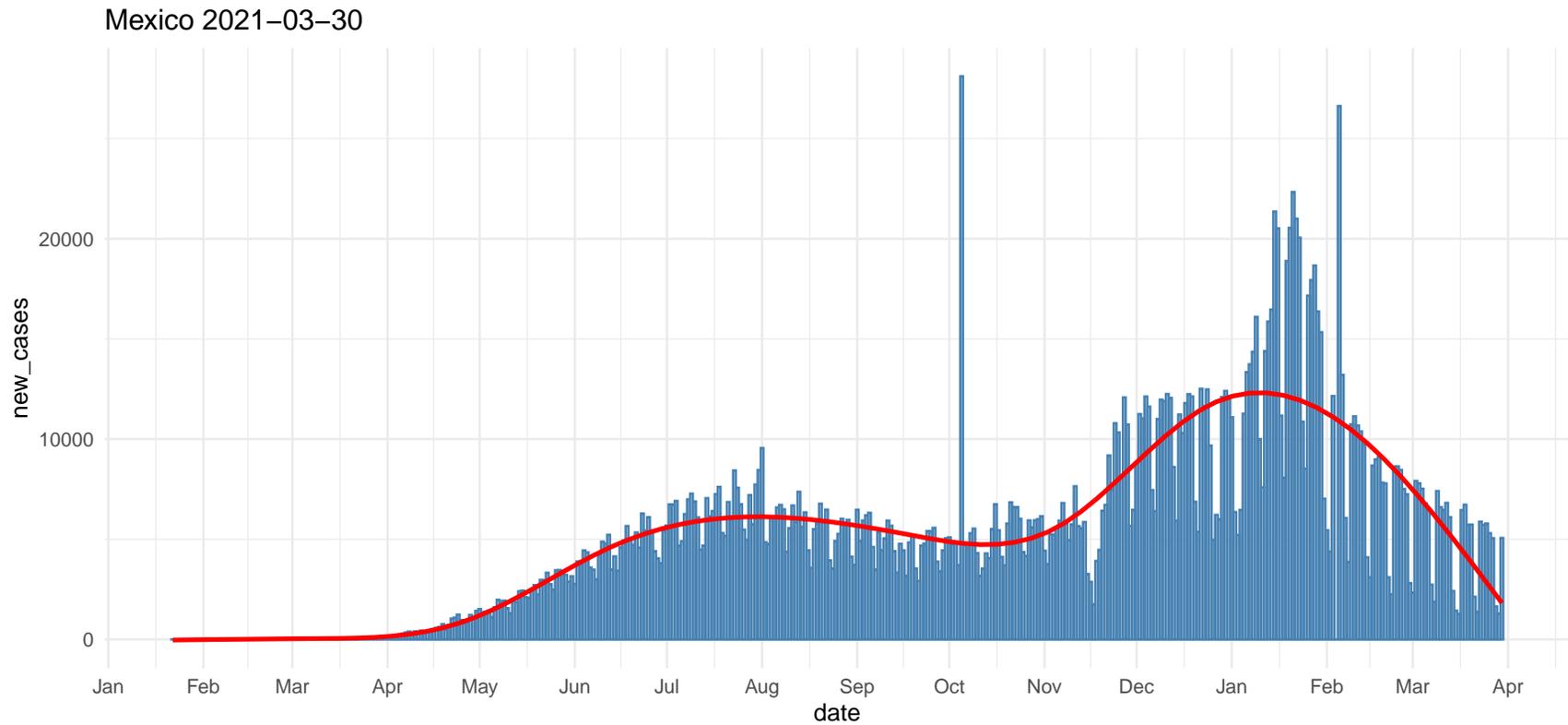
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Argentina

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Argentina 2021–03–30
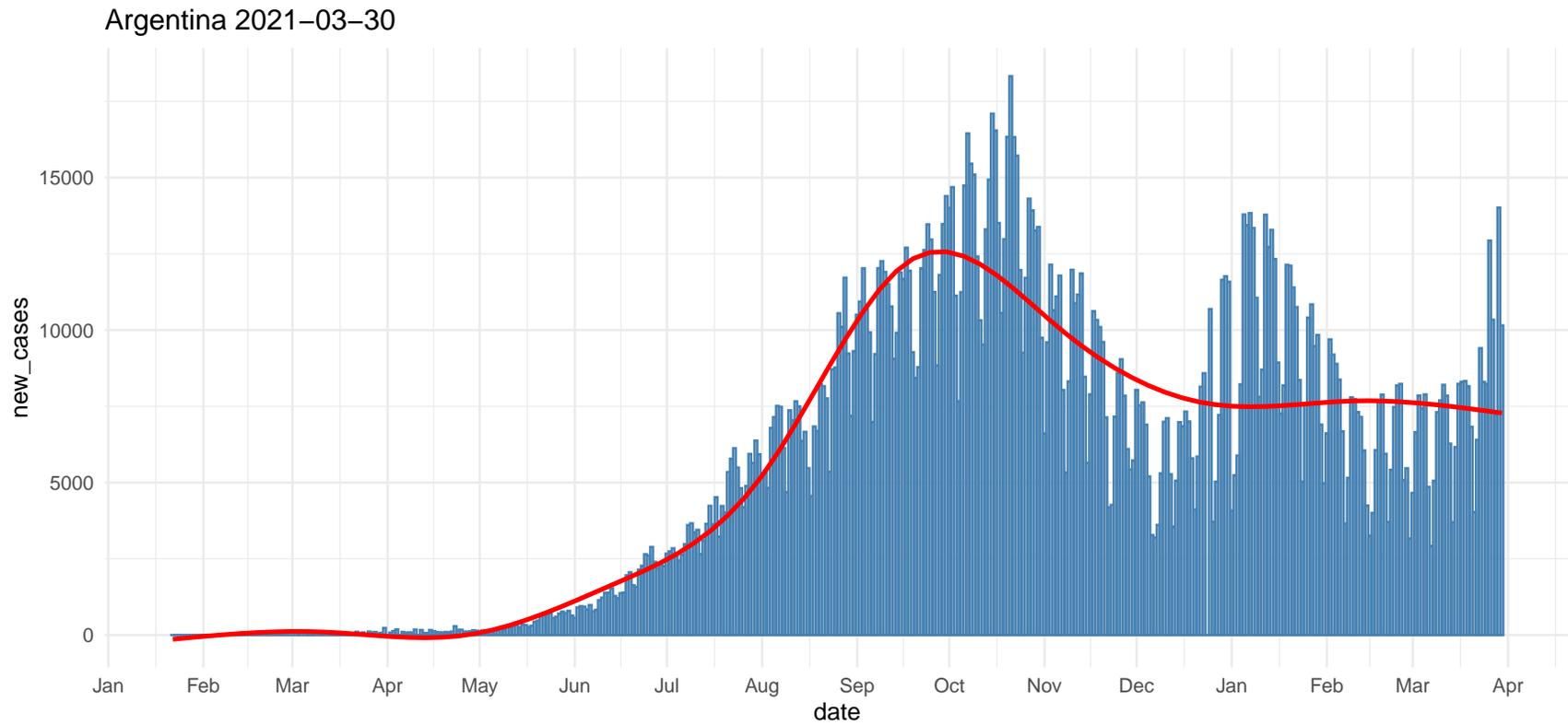
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Bolivia

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Bolivia 2021−03−30
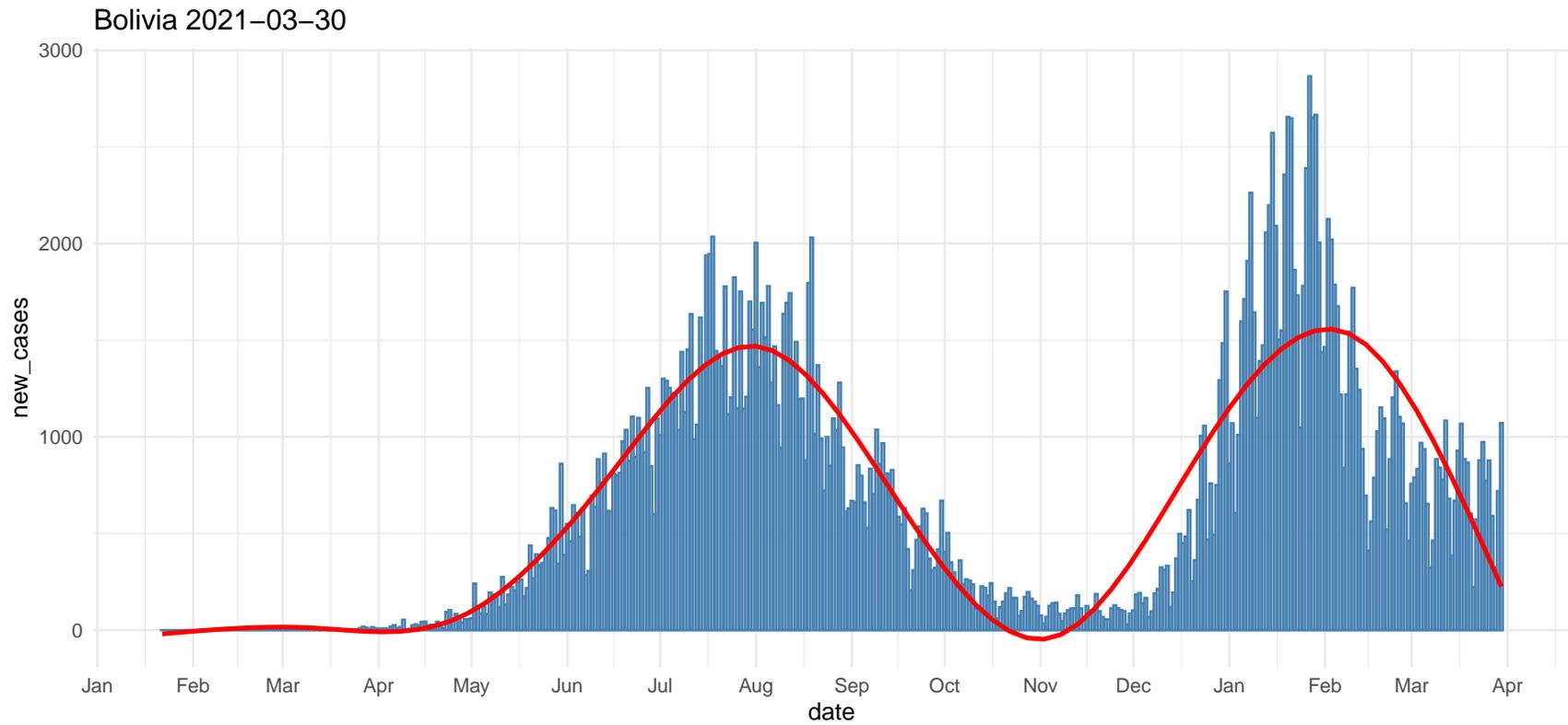
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Costa Rica

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Costa Rica 2021−03−30
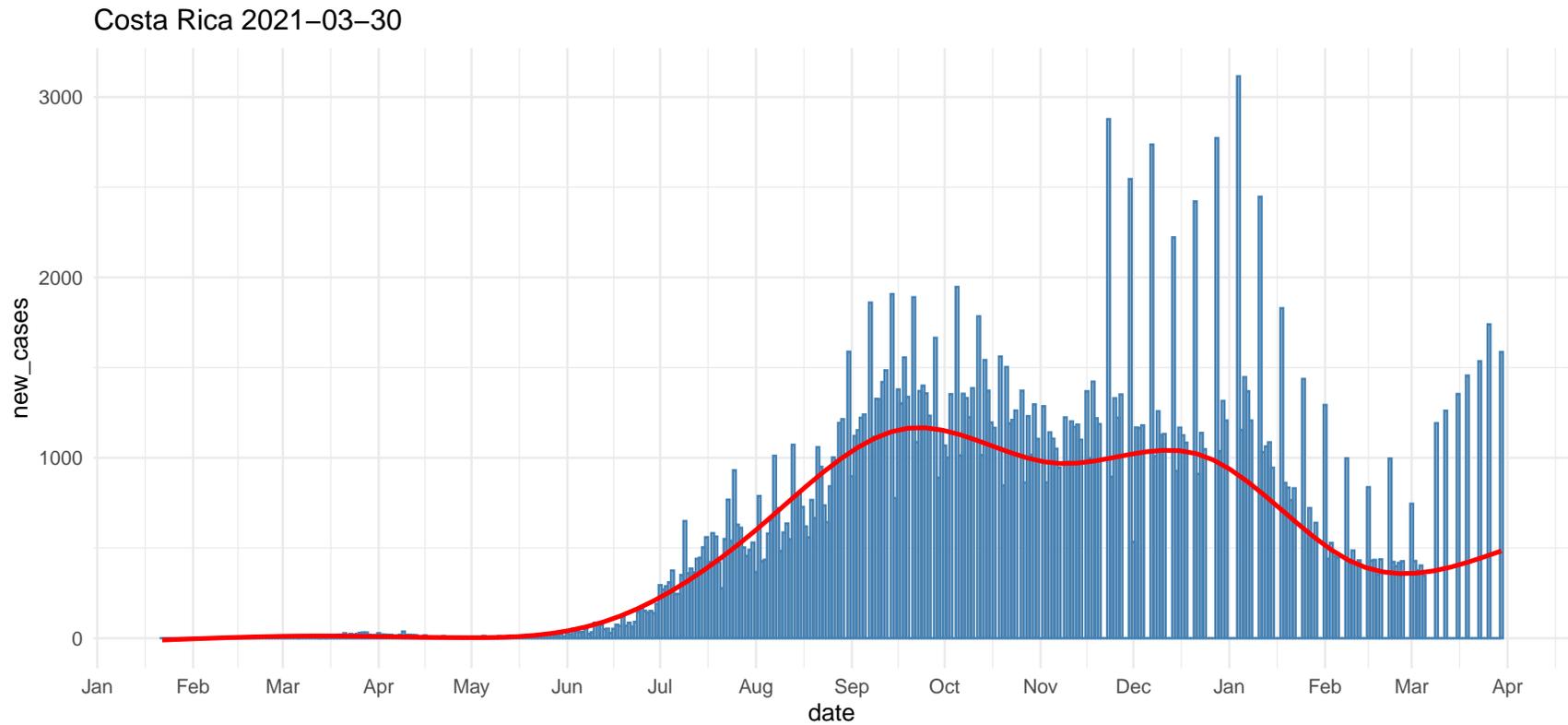
Dominican Republic

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Dominican Republic 2021–03–30
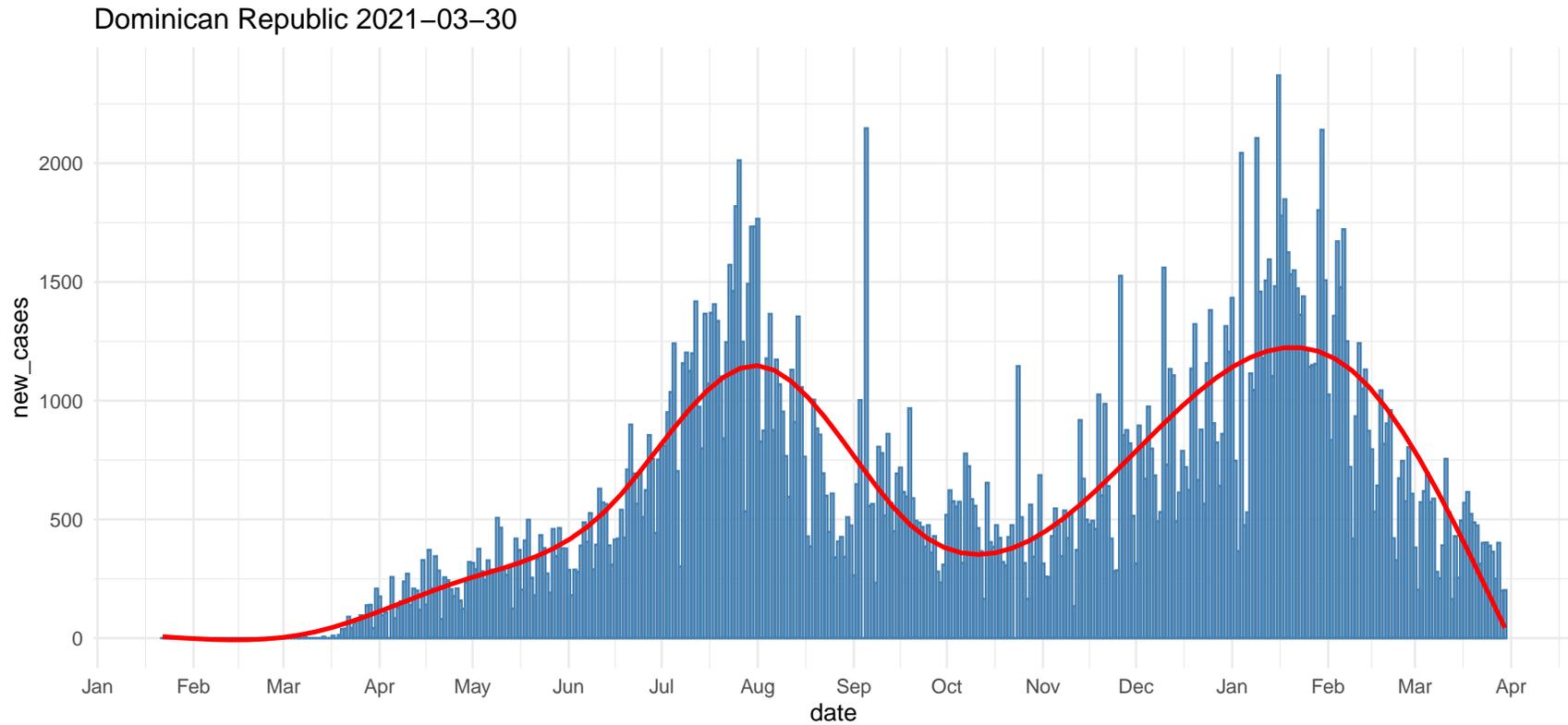
El Salvador

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

El Salvador 2021-03-30
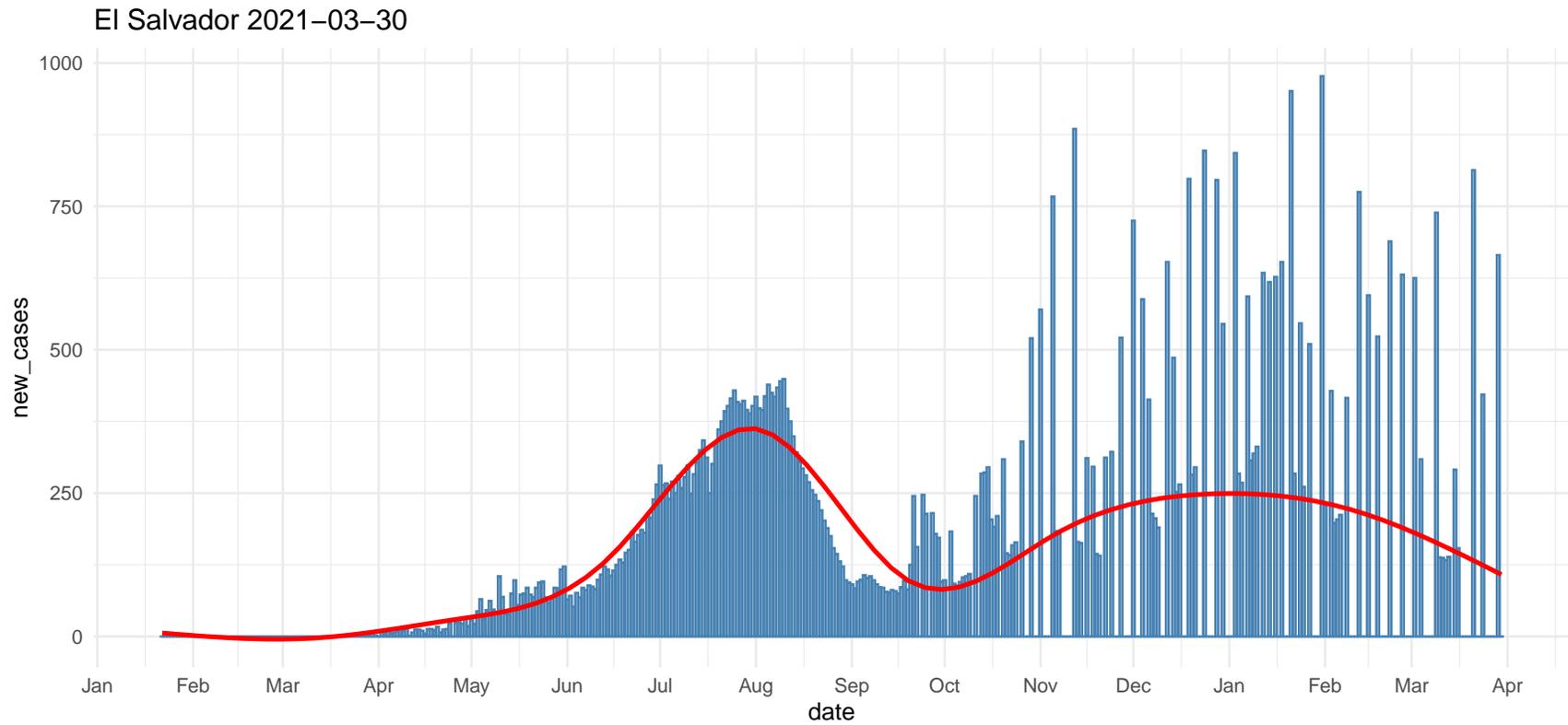
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Panama

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Panama 2021–03–30
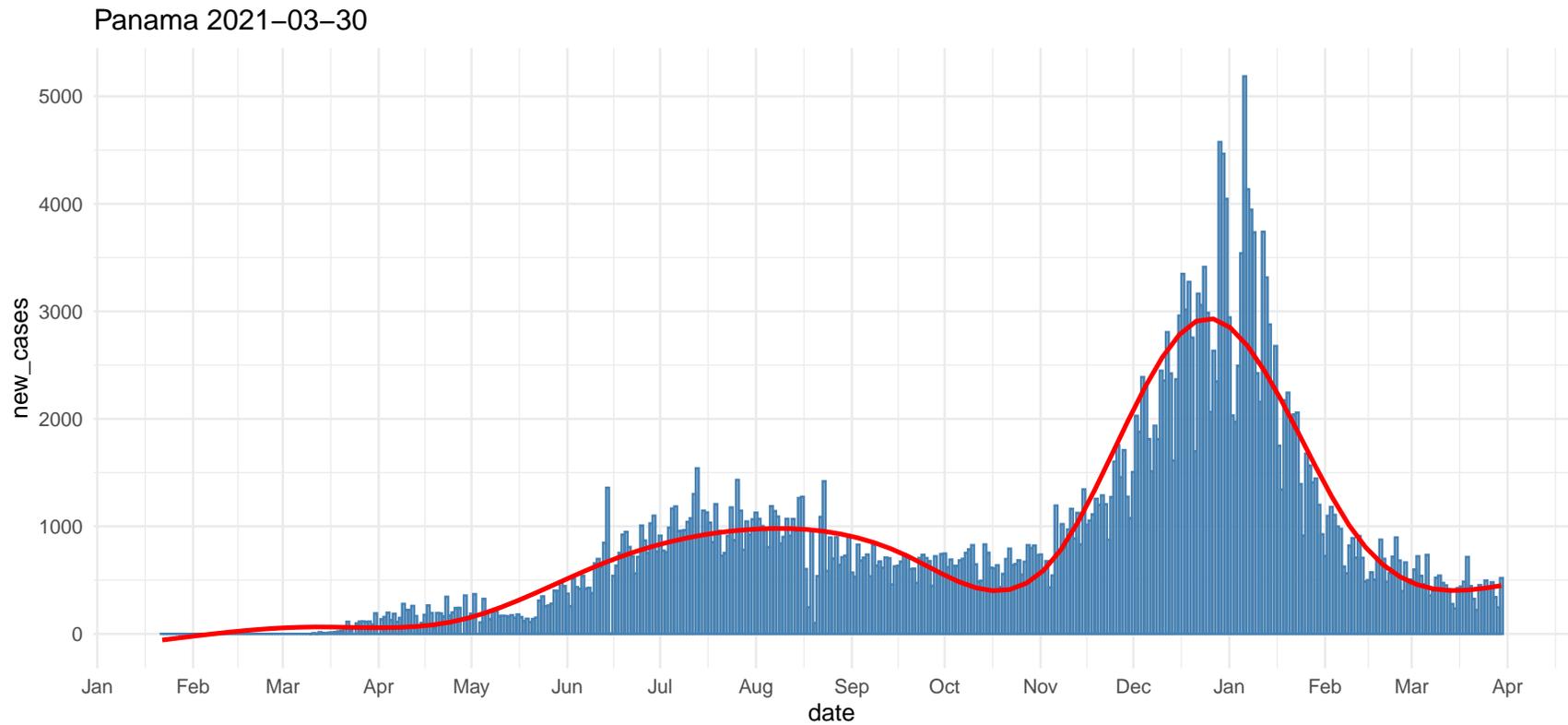
Source: Johns Hopkins University
Created by Carlos Delgado Salas

Nicaragua

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve)

Nicaragua 2021−03−30
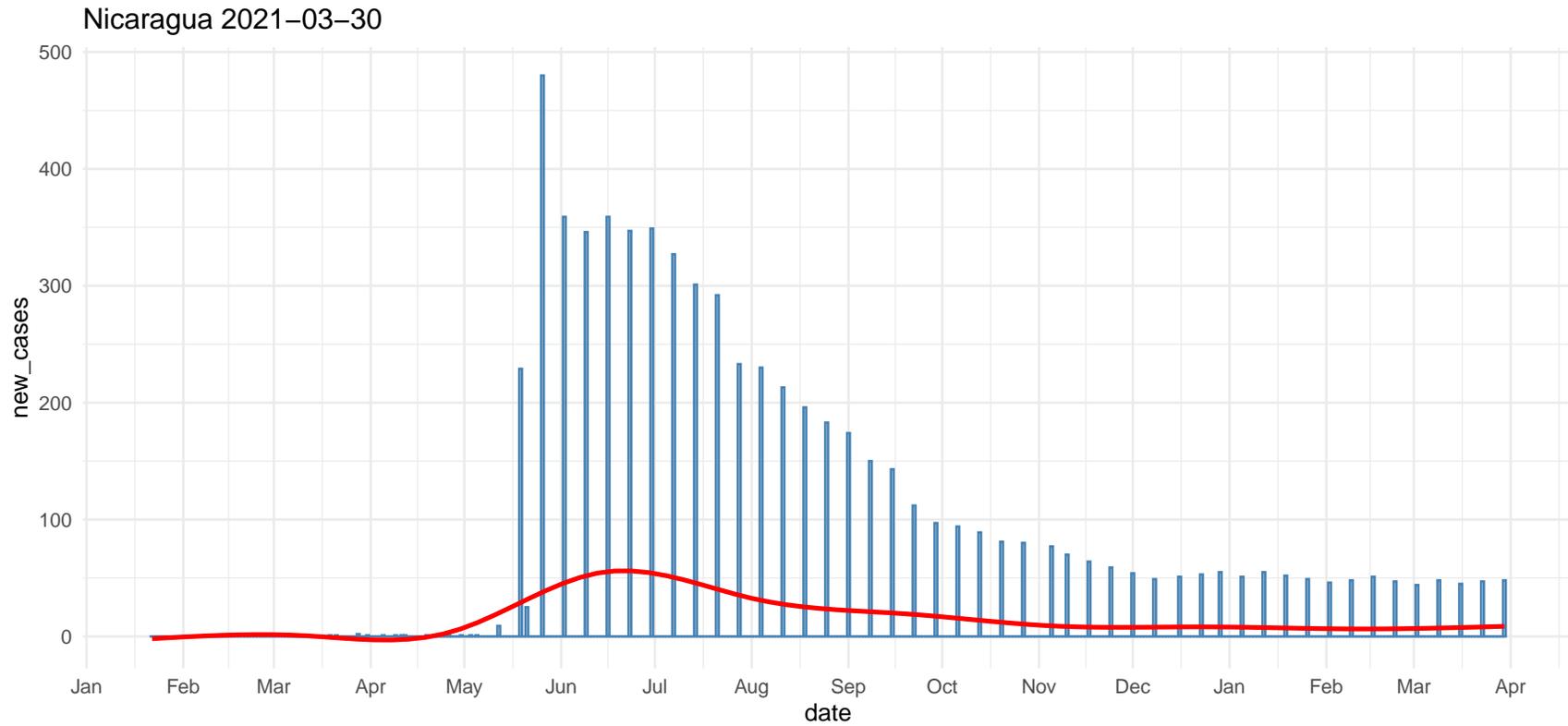
Plots for different states in the USA

US county map

US by county and new cases in the last week. This is a "Hotspot Map".

(The map has a square root transformation to make more contrast between countries refer to legend to match number)

New COVID−19 cases in last week (2021−03−30)
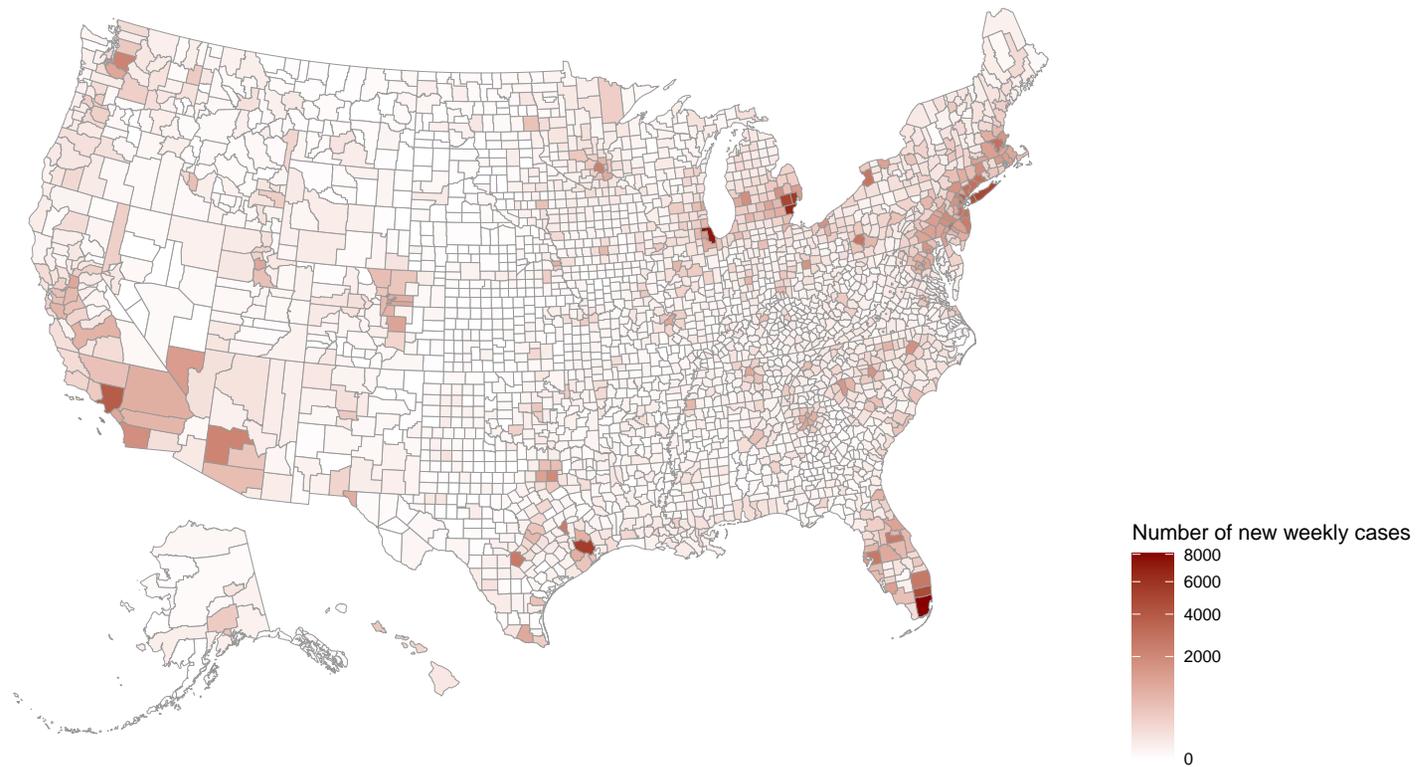
US county map

US by county and new cases in the last week by thousand people.

New COVID–19 cases in last week by thousand people (2021–03–30)
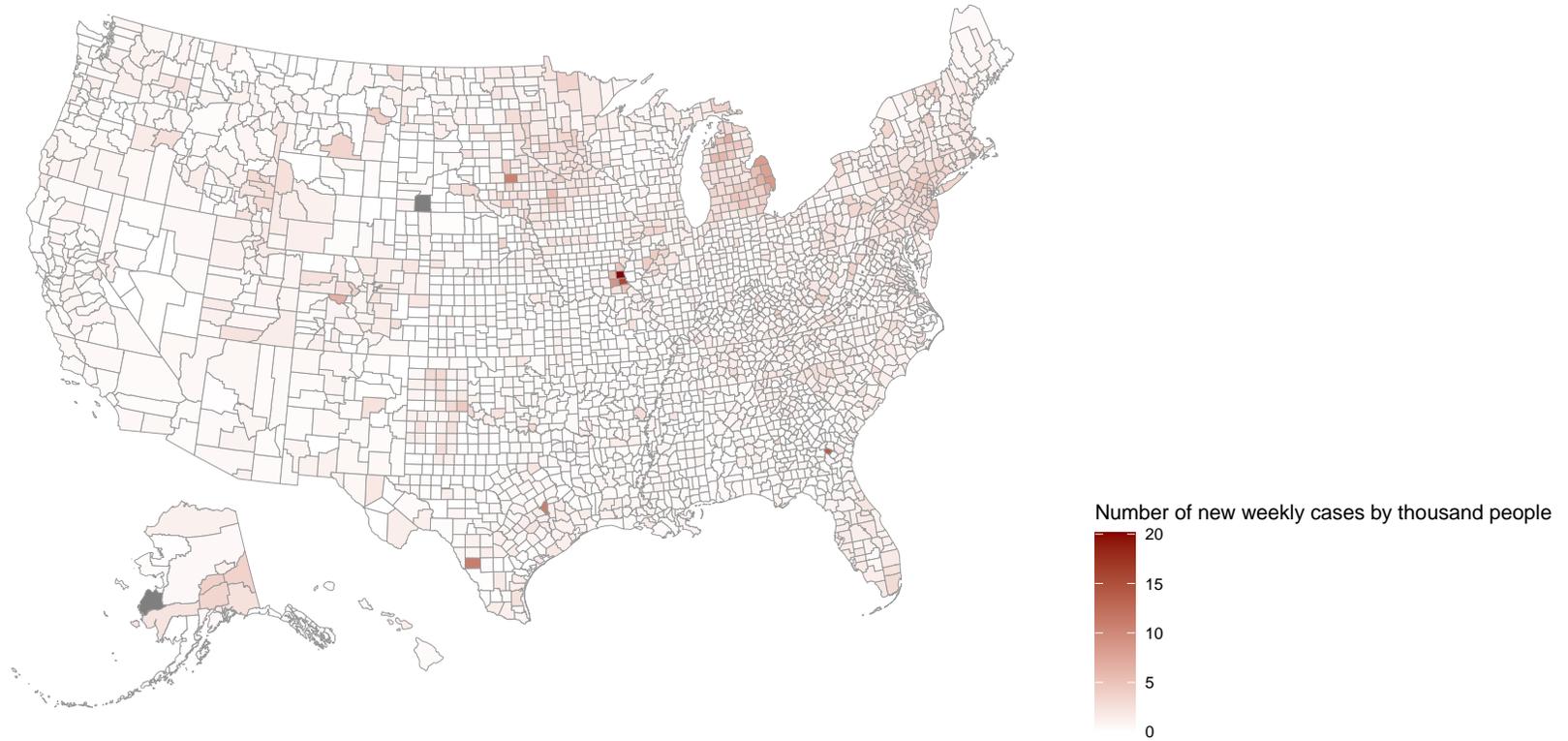
Top 5 States with most cases

These are the top 5 States in the United States with most reported new COVID-19 cases in the last 3 days.

US top 5 states with most new cases reported in last 3 days 2021−03−30

Source: New York Times
Created by Carlos Delgado Salas
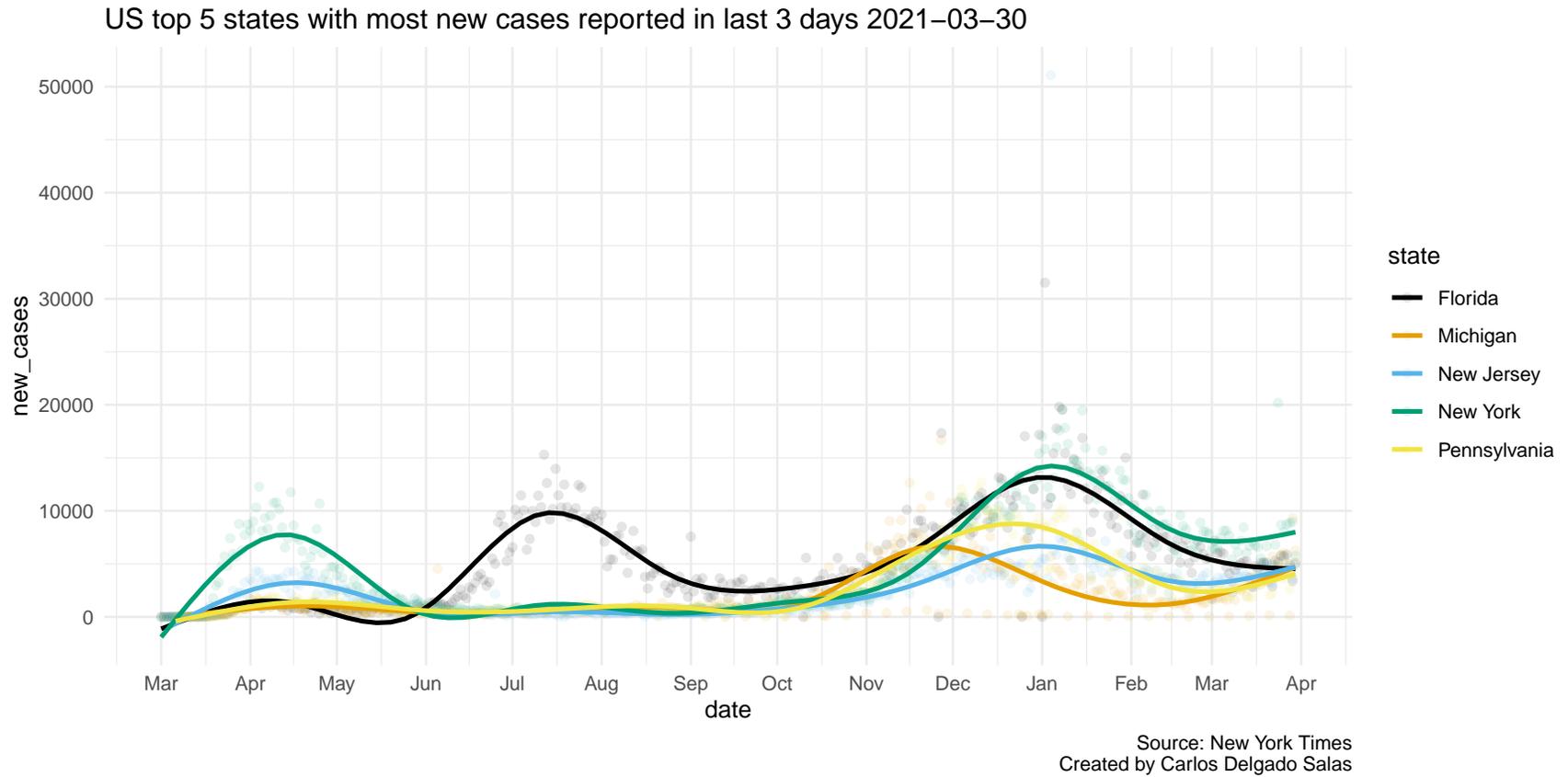
Top 10 Hostspots States with most cases

These are the top 10 States in the United States with most reported new COVID-19 cases in the last 3 days (New York, Michigan, Florida, New Jersey, Pennsylvania, Texas, California, North Carolina, Illinois, Massachusetts) against the rest of the States in the US

Hospitalizations, ICU and Ventilator

These are the number of cases as of 2021-03-07 that have been admitted to a hospital since the pandemic began.

Admissions into Hospitals in the US by type (2021−03−30)
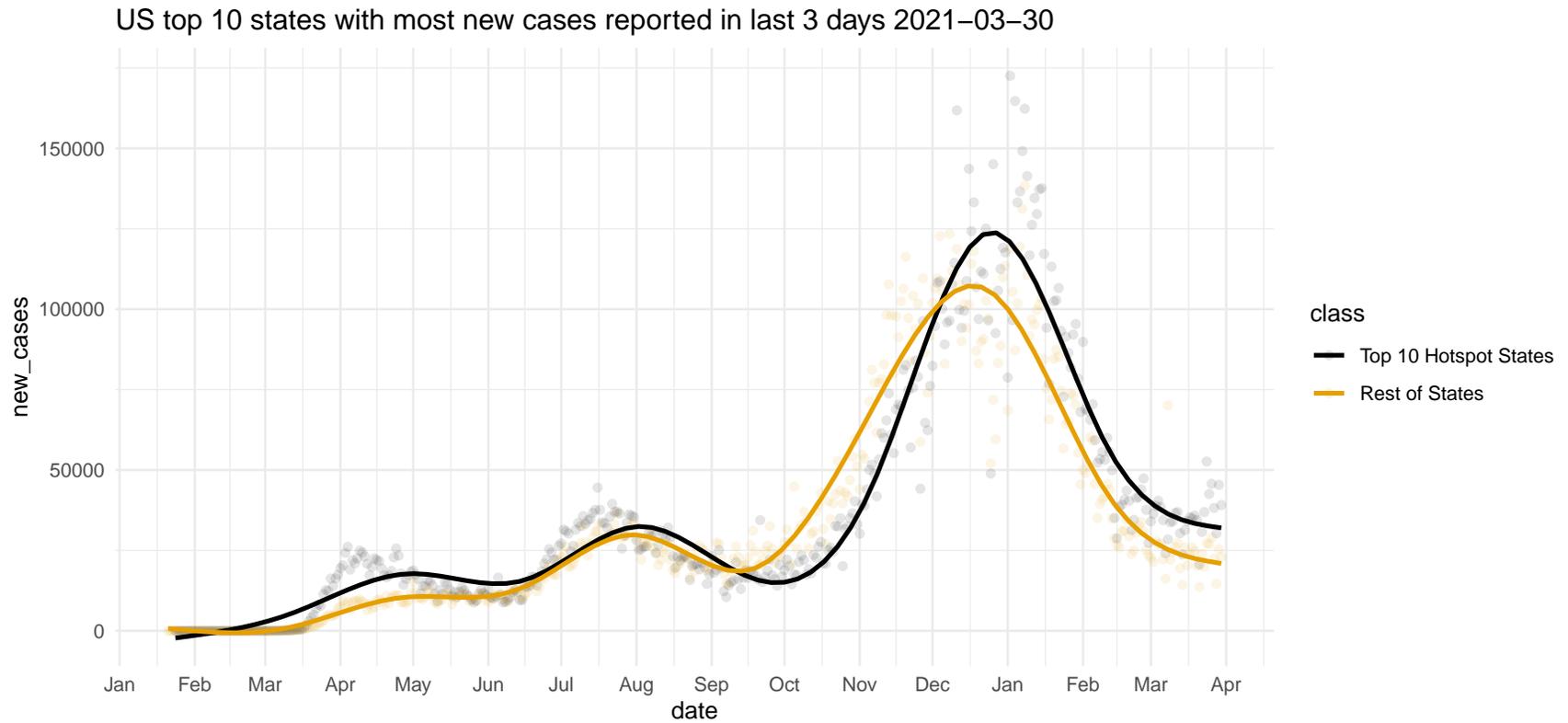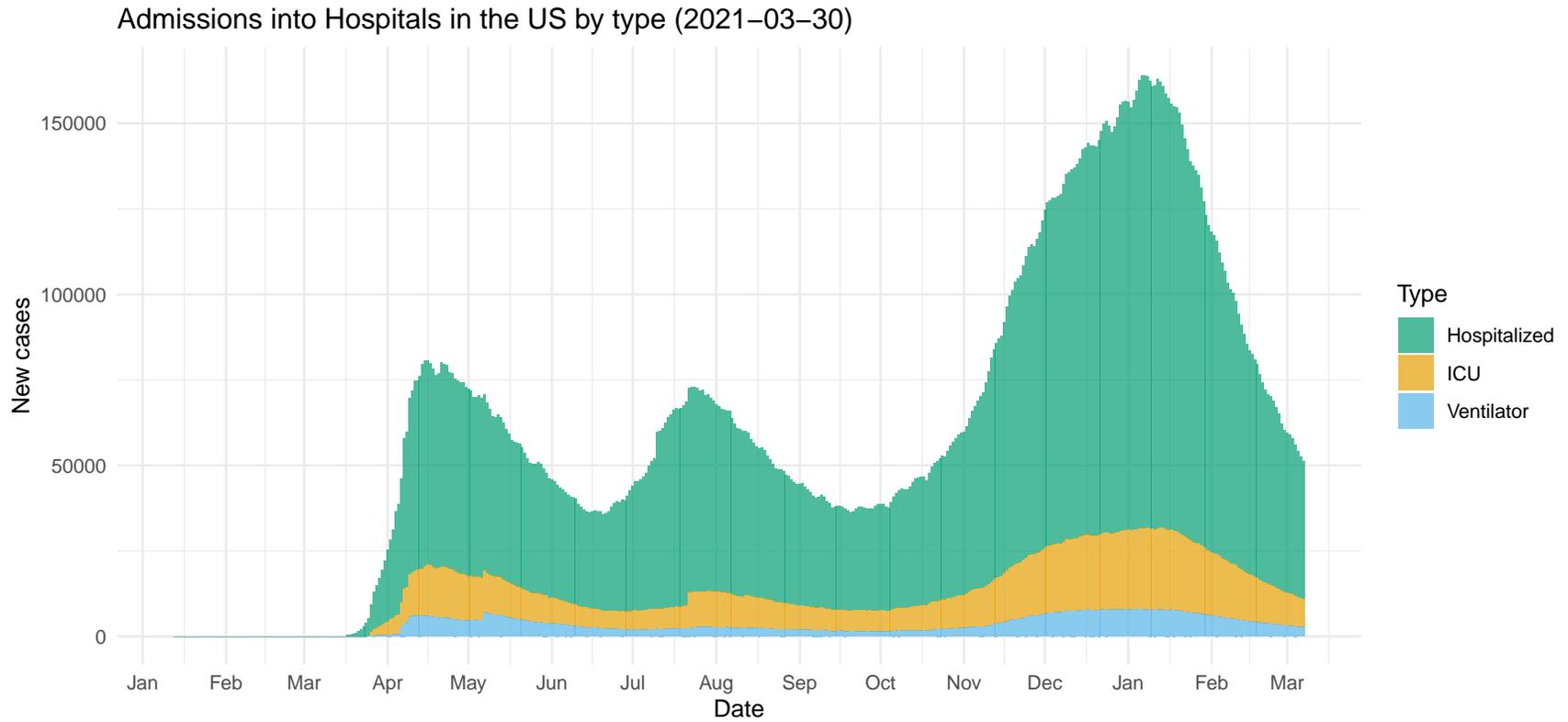
Source: COVID−19 Tracking
Author: Carlos Delgado Salas

Hospitalizations, ICU and Ventilator on 2021-03-07 by State

These are the number of cases as of 2021-03-07 that have been admitted to a hospital per State.
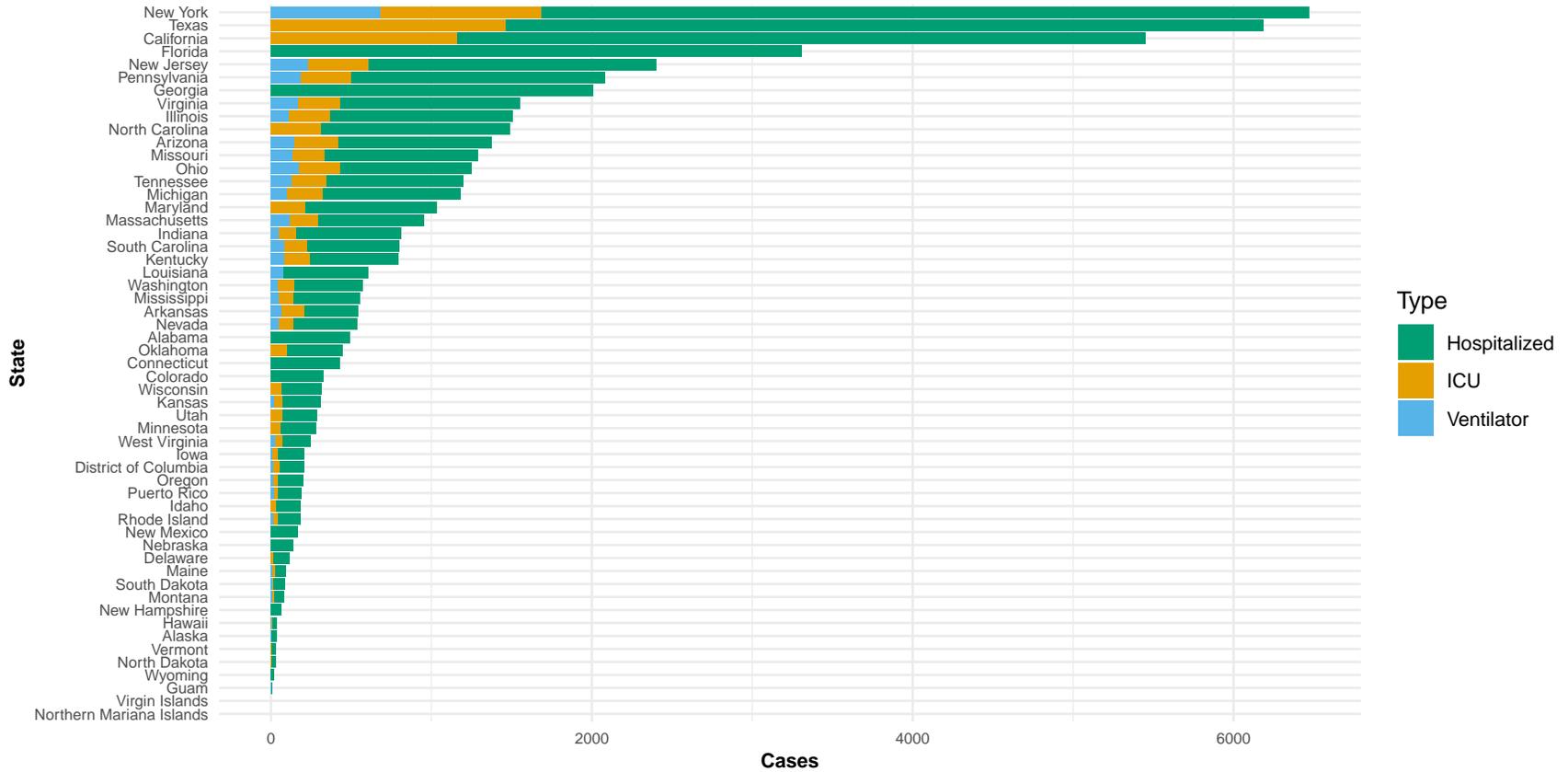
New York

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)

New York 2021−03−30
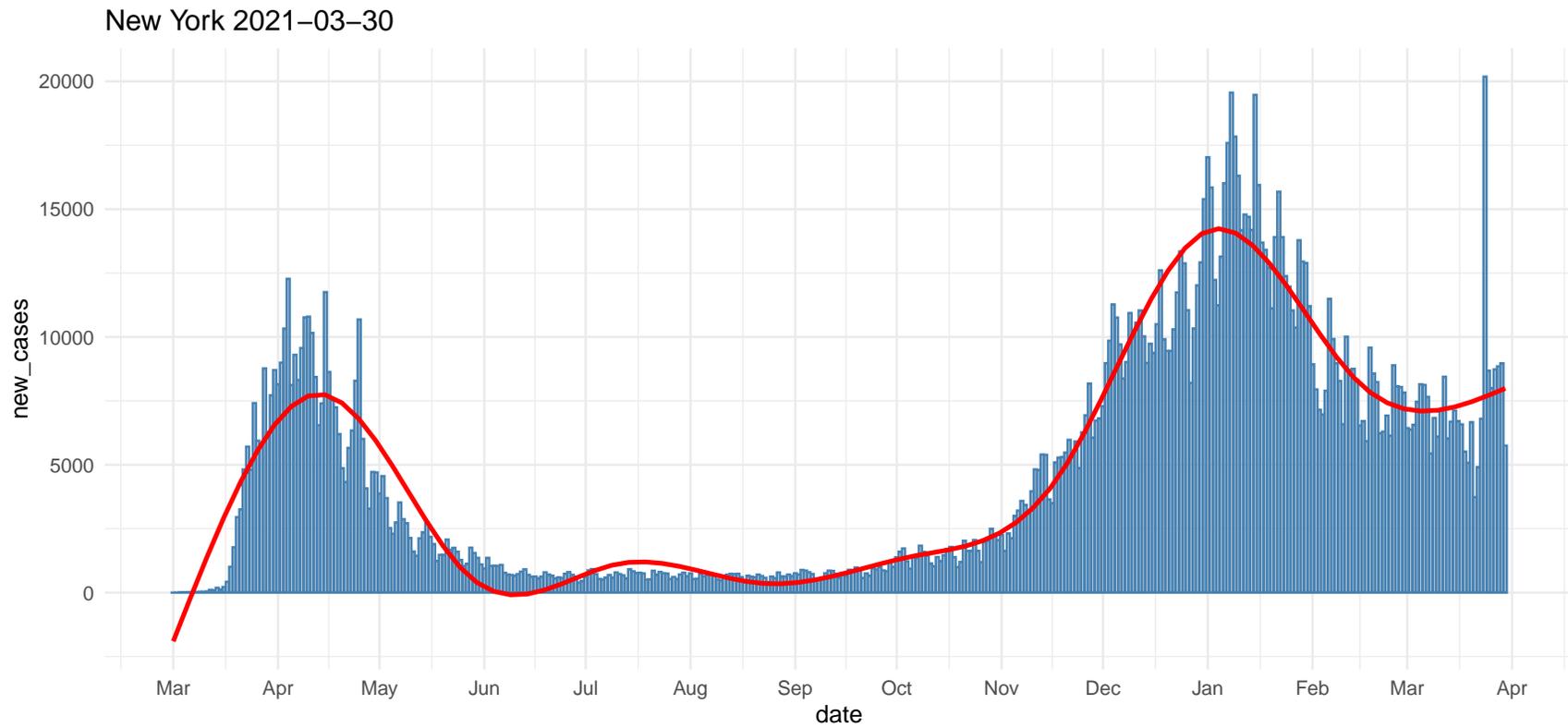
New York daily COVID−19 tests and positive cases 2021−03−07
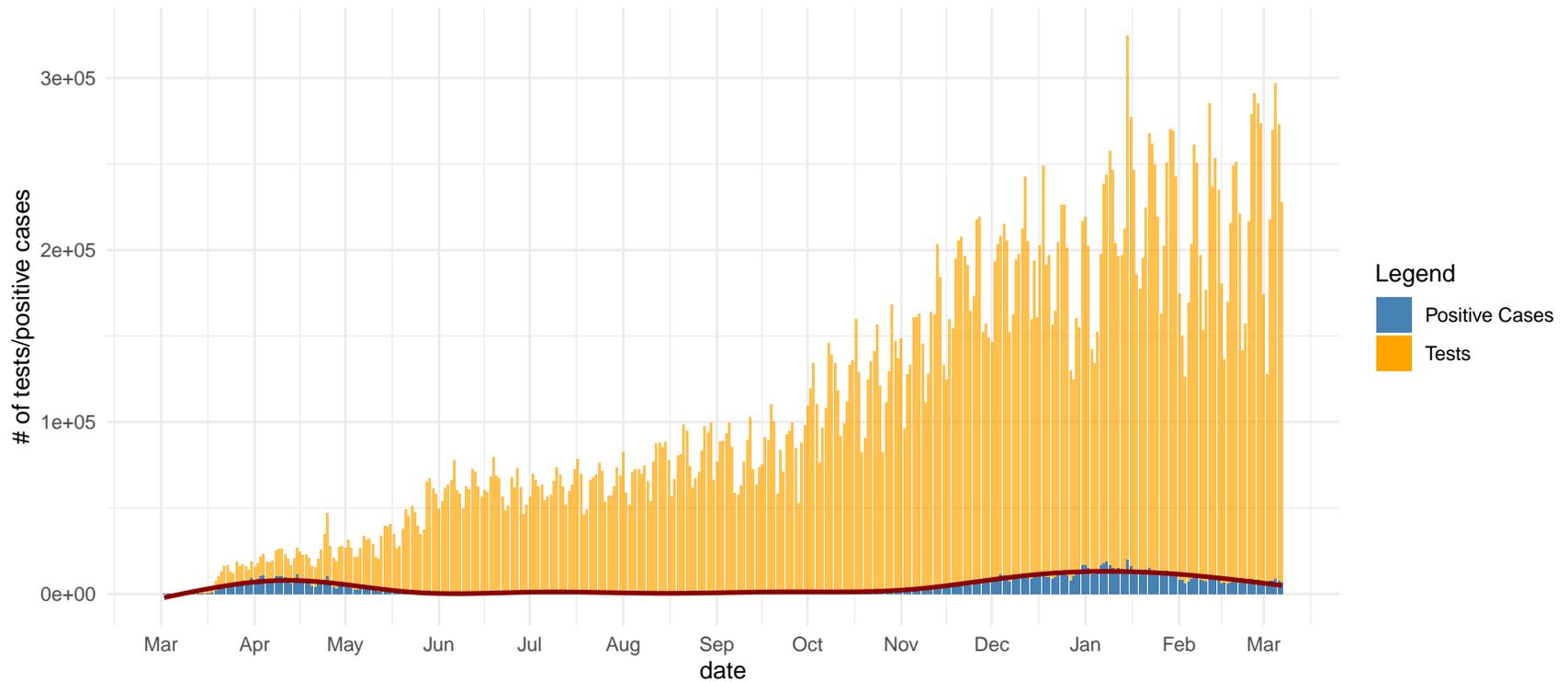
Source: CovidTracking.com
Created by Carlos Delgado Salas

District of Columbia

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)

District of Columbia 2021–03–30
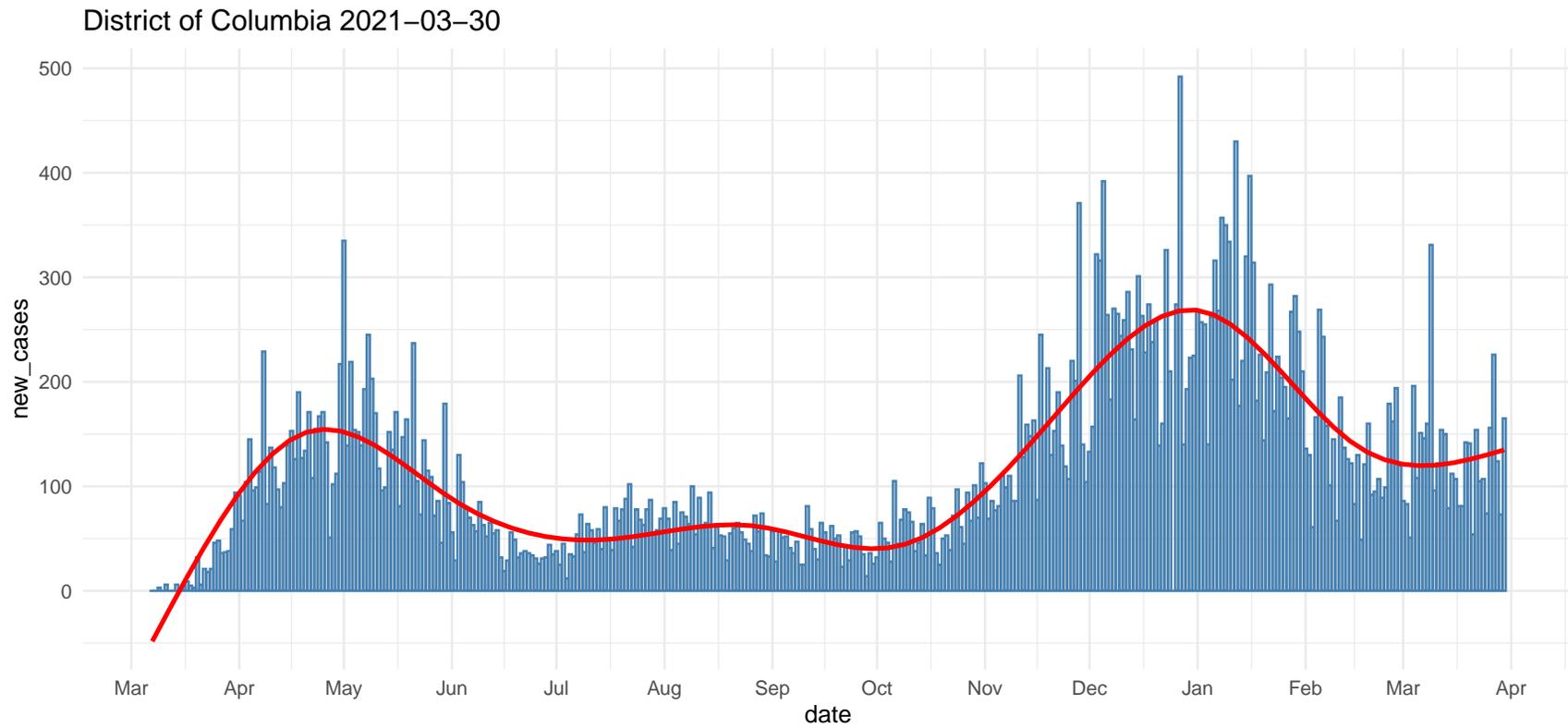
Source: New York Times
Created by Carlos Delgado Salas

District of Columbia daily COVID−19 tests and positive cases 2021−03−07
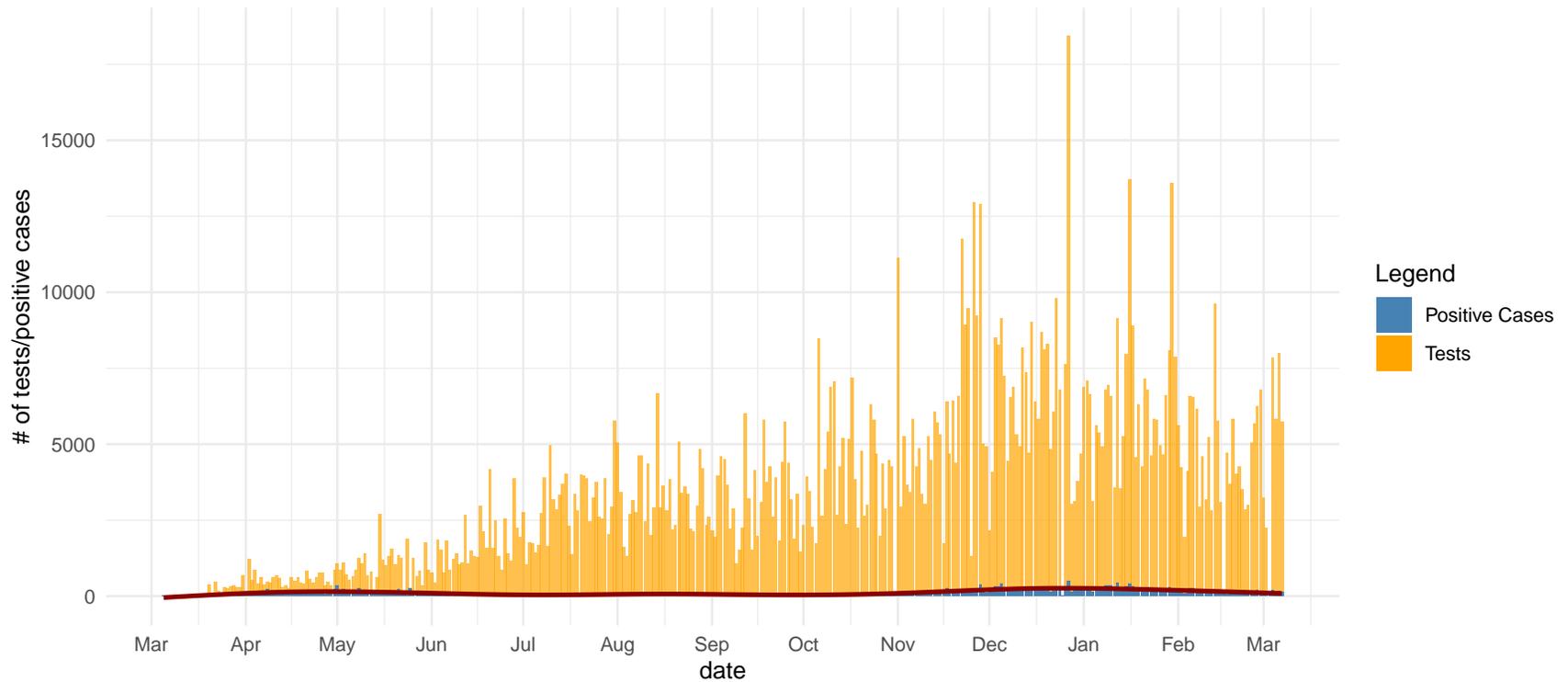
Source: CovidTracking.com
Created by Carlos Delgado Salas

Virginia

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)
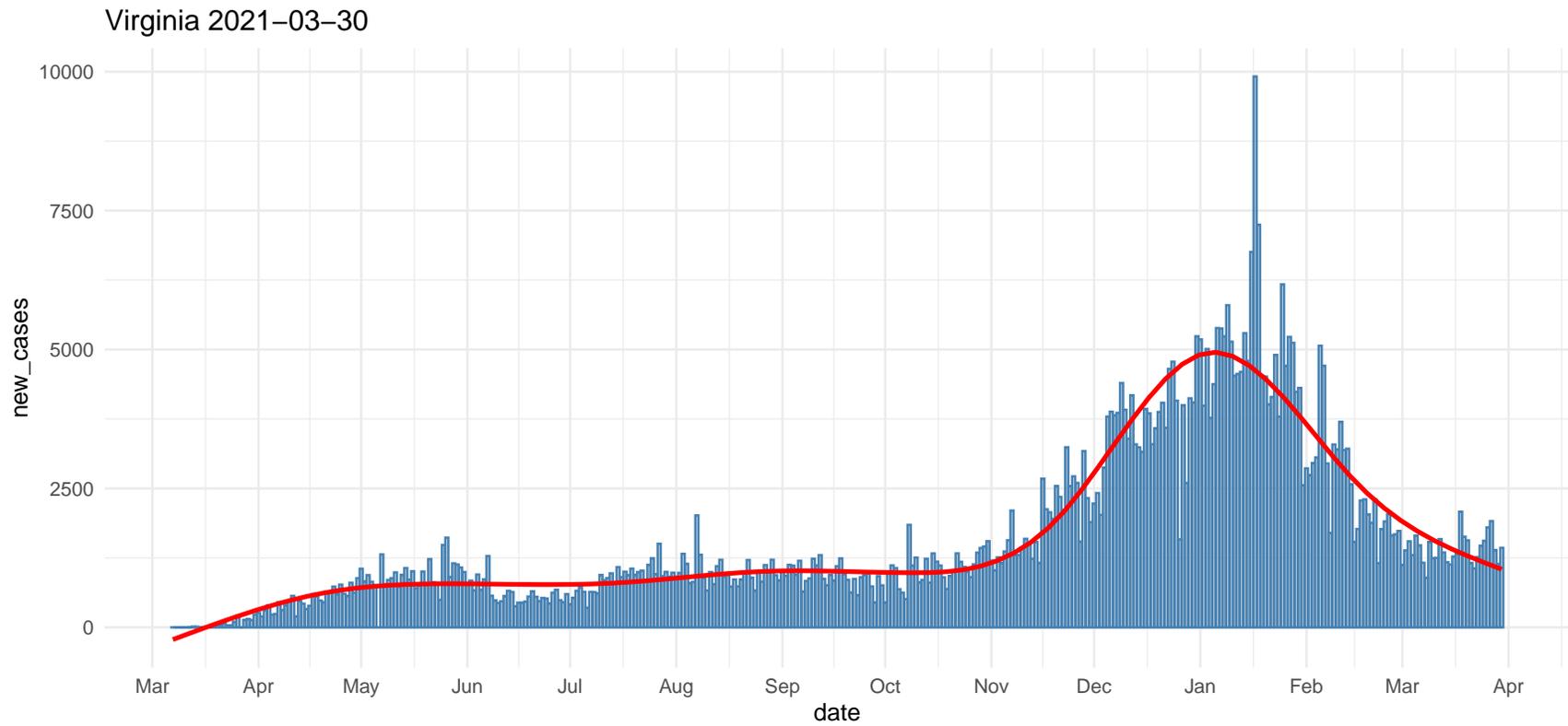
Virginia 2021–03–30

Source: New York Times
Created by Carlos Delgado Salas

Virginia daily COVID−19 tests and positive cases 2021−03−07

Source: CovidTracking.com
Created by Carlos Delgado Salas

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Maryland

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)
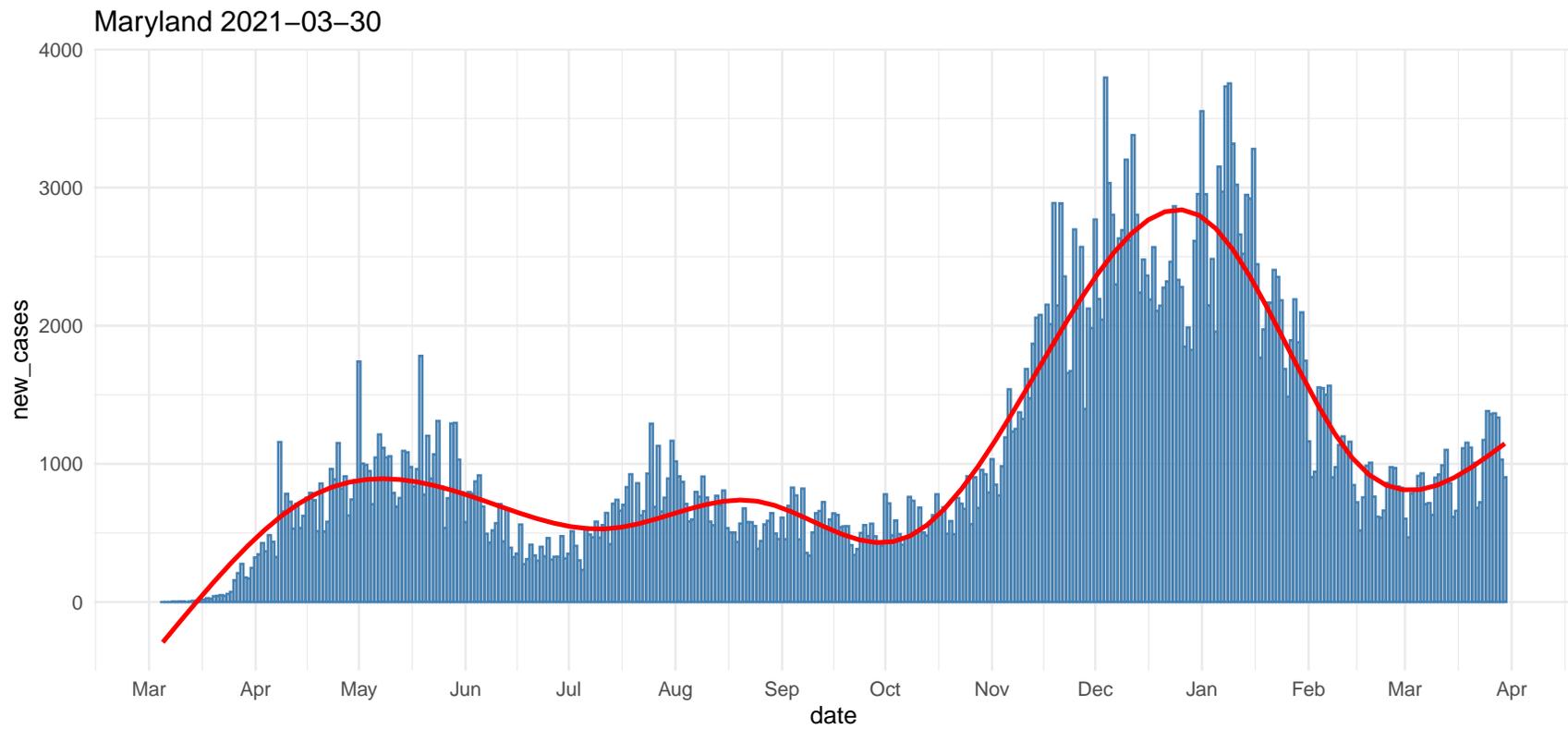
Maryland 2021–03–30

Source: New York Times
Created by Carlos Delgado Salas

Maryland daily COVID−19 tests and positive cases 2021−03−07
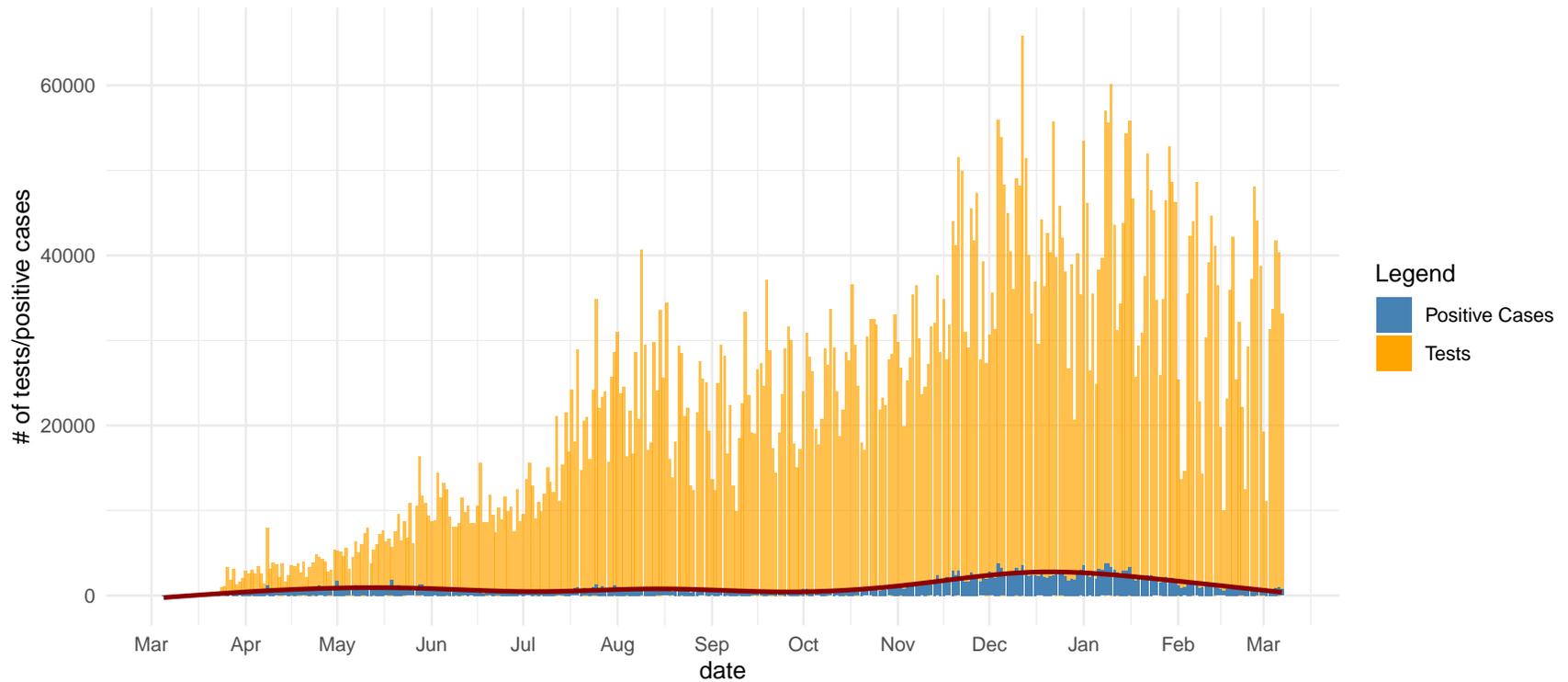
Source: CovidTracking.com
Created by Carlos Delgado Salas

California

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)

California 2021–03–30
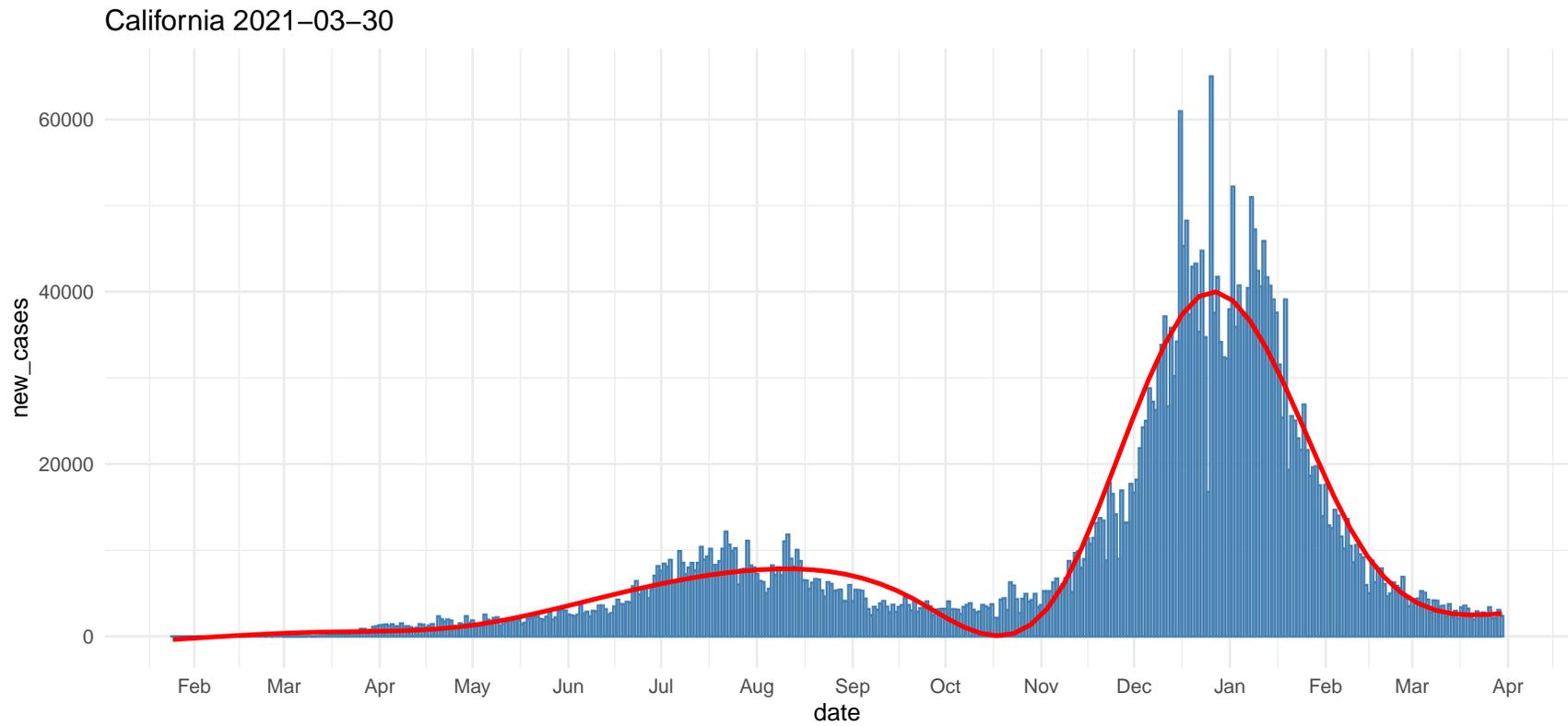
Source: New York Times
Created by Carlos Delgado Salas

California daily COVID−19 tests and positive cases 2021−03−07
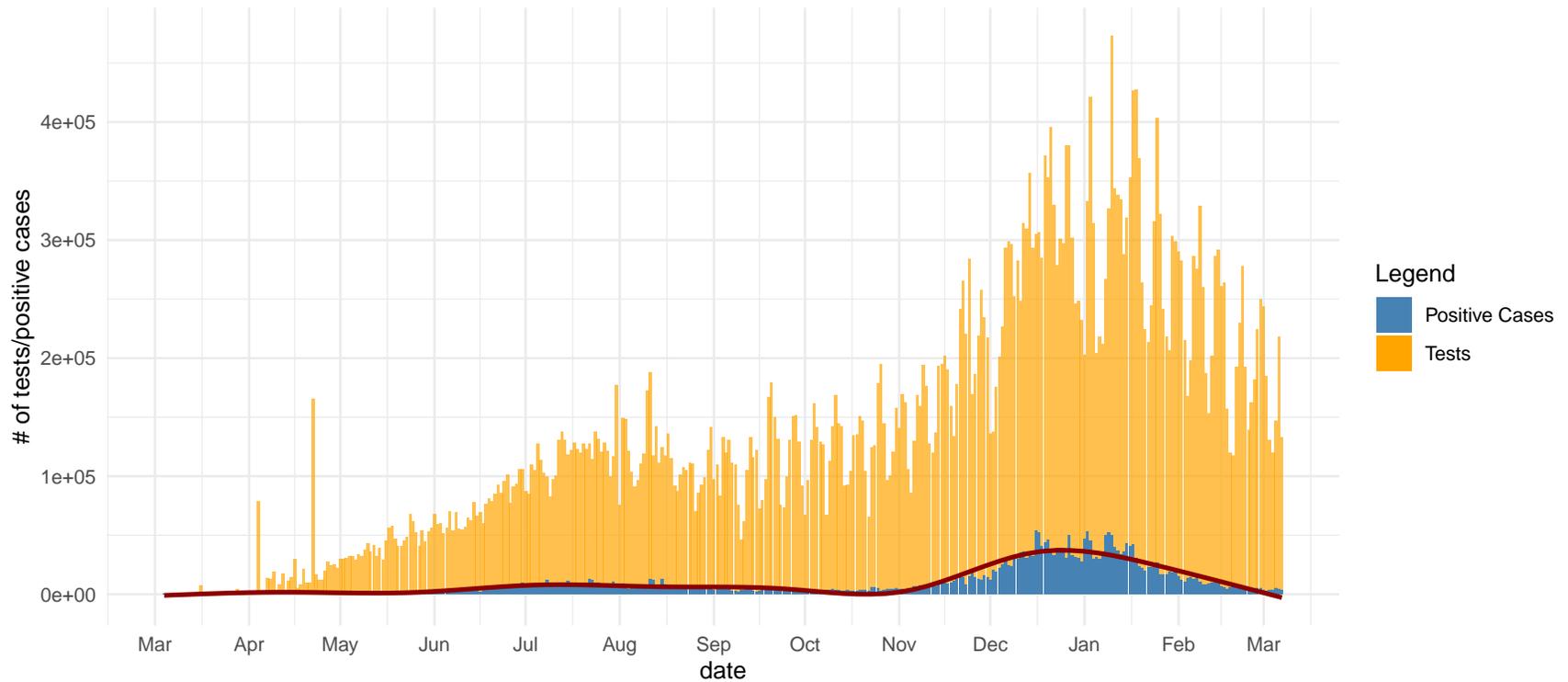

Source: CovidTracking.com
Created by Carlos Delgado Salas

Florida

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)

Florida 2021−03−30
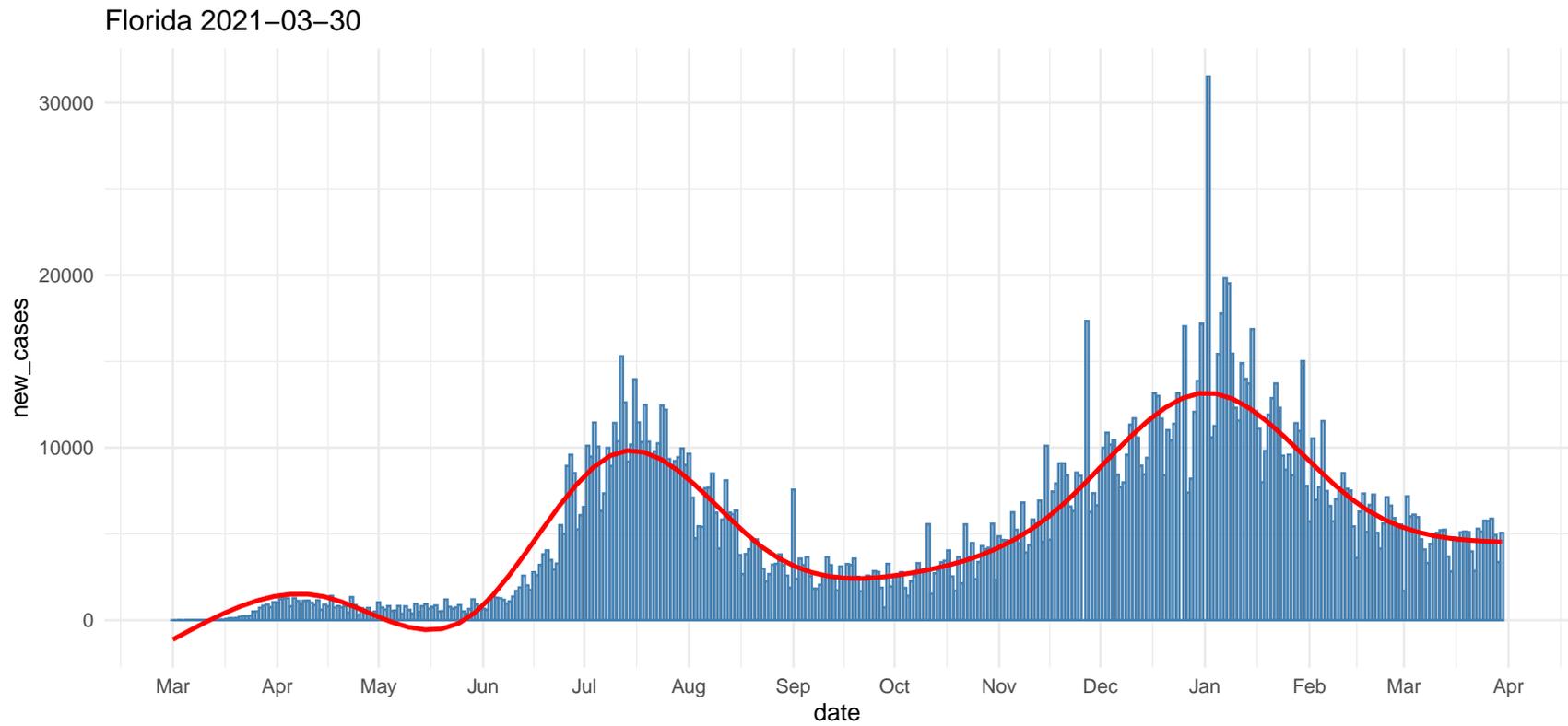
Source: New York Times
Created by Carlos Delgado Salas

Florida daily COVID−19 tests and positive cases 2021−03−07
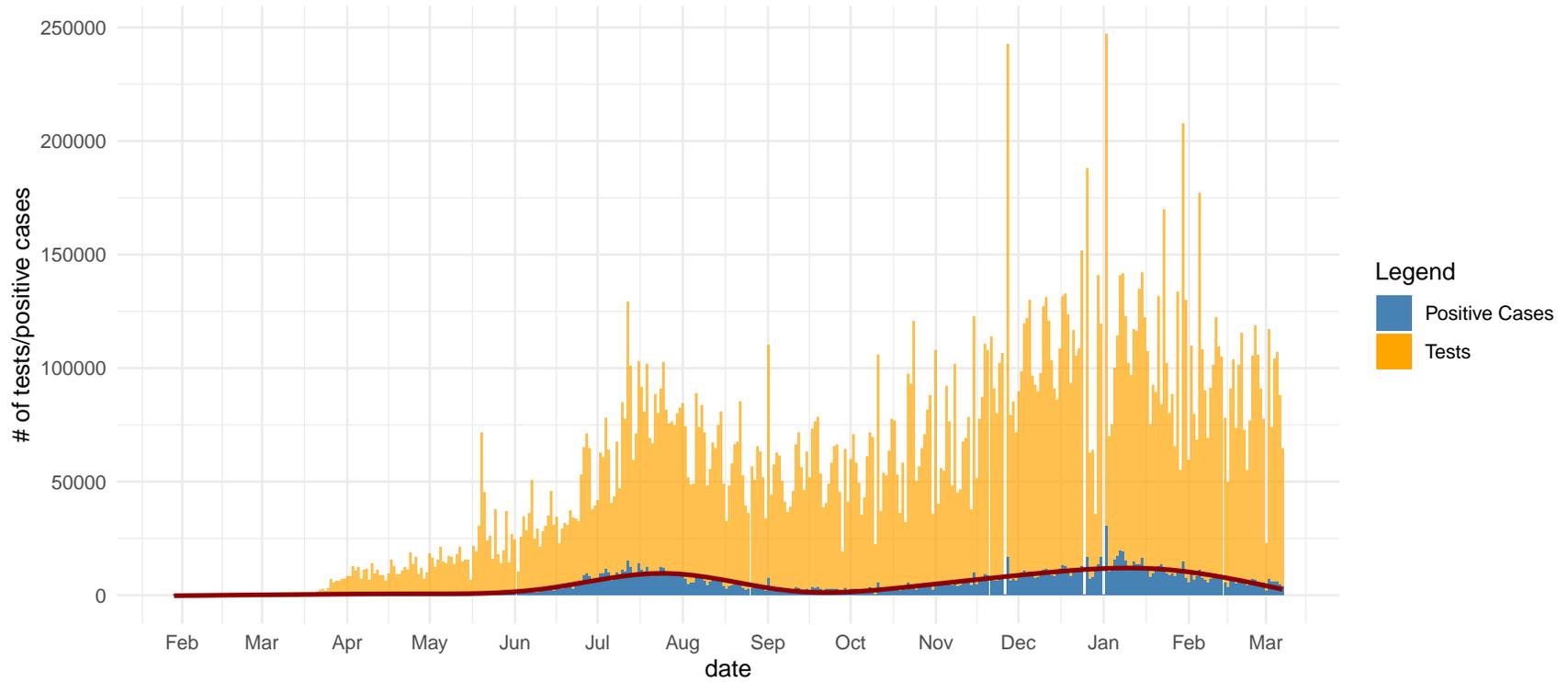
Source: CovidTracking.com
Created by Carlos Delgado Salas

Colorado

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)
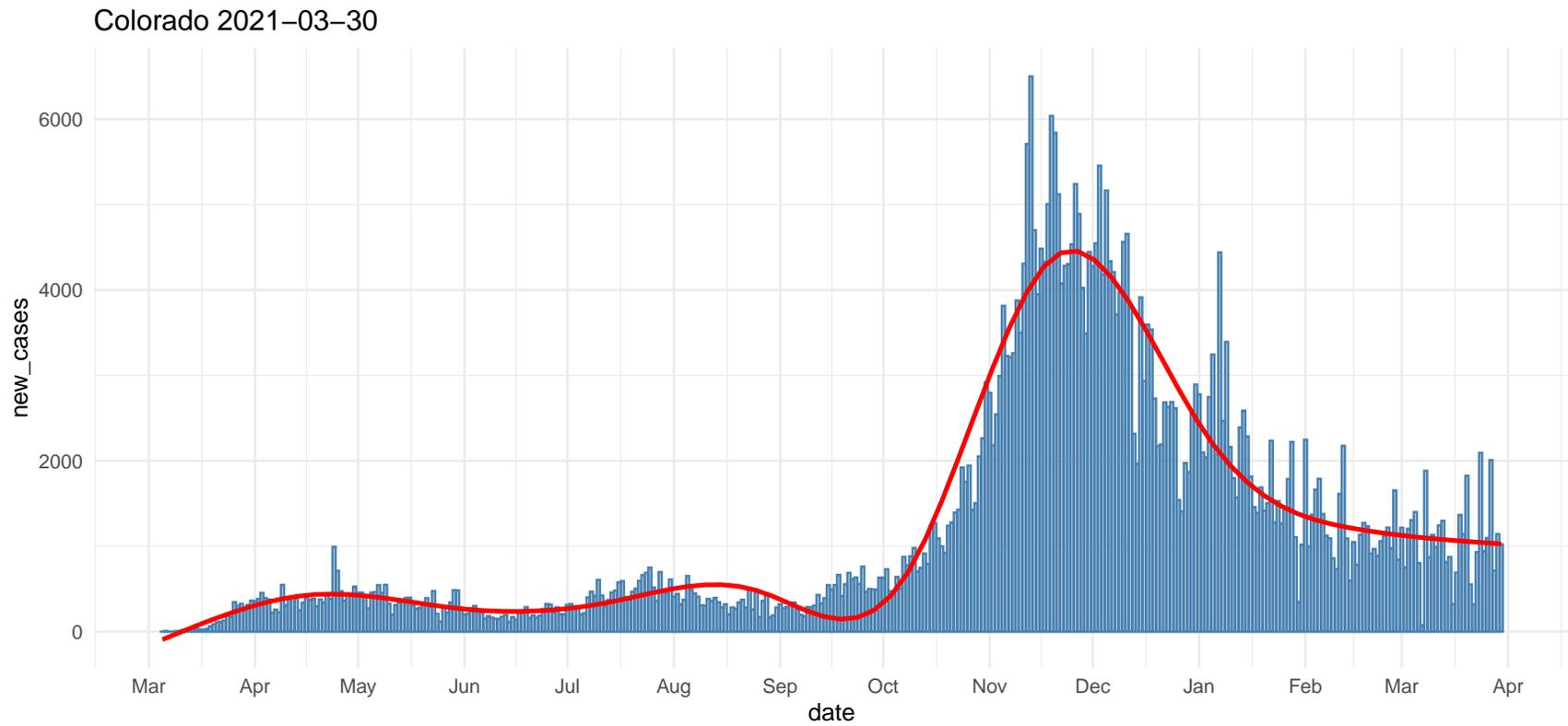
Colorado 2021−03−30

Source: New York Times
Created by Carlos Delgado Salas

Colorado daily COVID−19 tests and positive cases 2021−03−07

Source: CovidTracking.com
Created by Carlos Delgado Salas

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Texas

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)

Texas 2021–03–30

Texas daily COVID−19 tests and positive cases 2021−03−07

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Washington (State)

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)
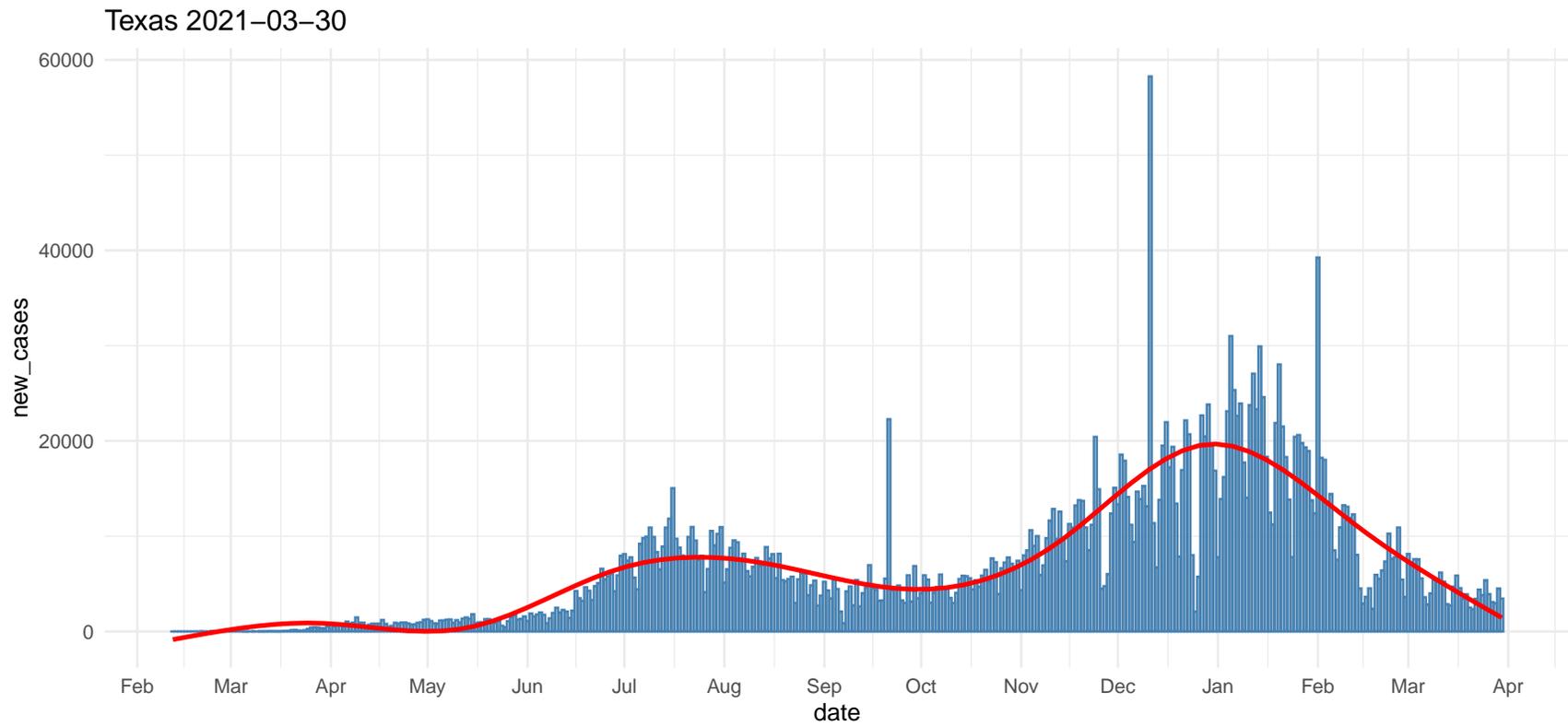
Washington 2021−03−30
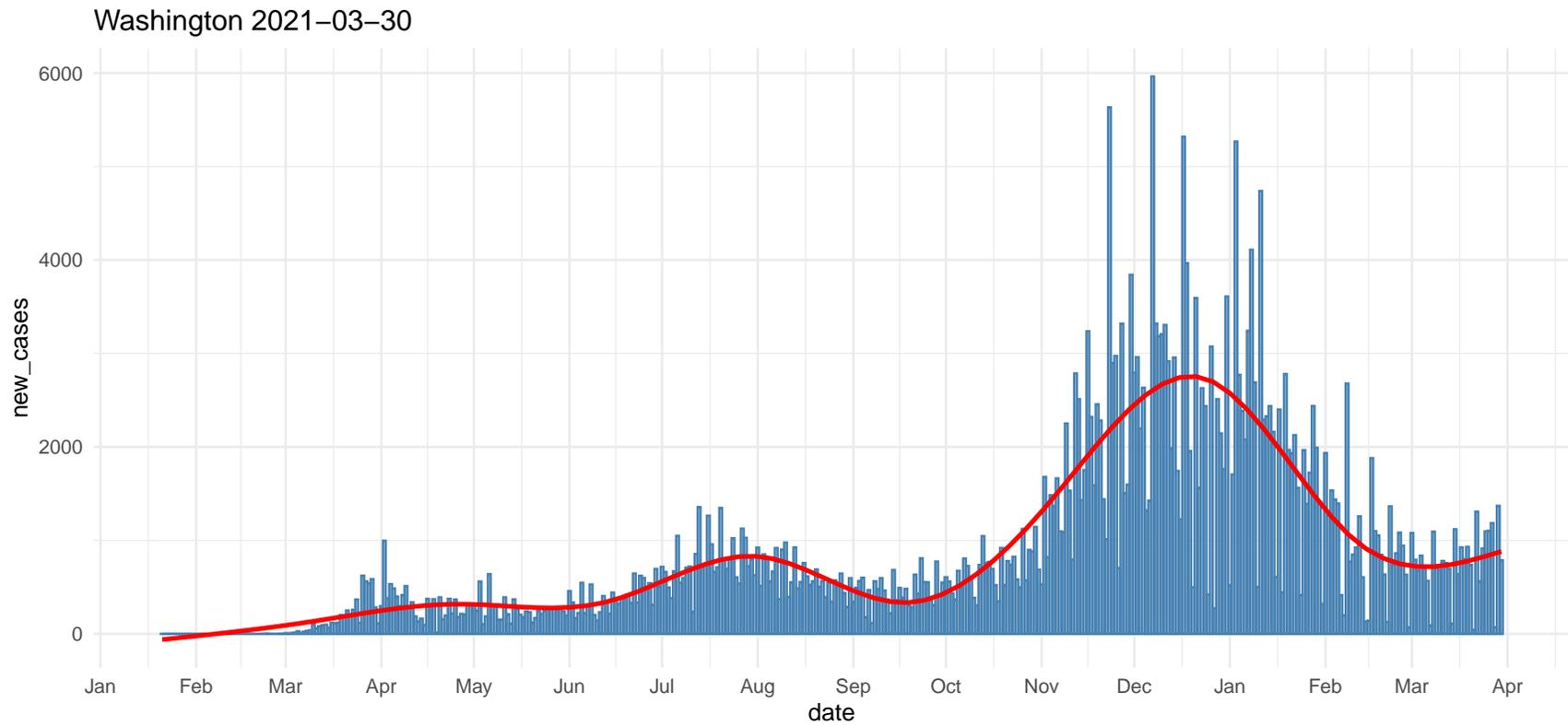
Source: New York Times
Created by Carlos Delgado Salas

Washington daily COVID−19 tests and positive cases 2021−03−07
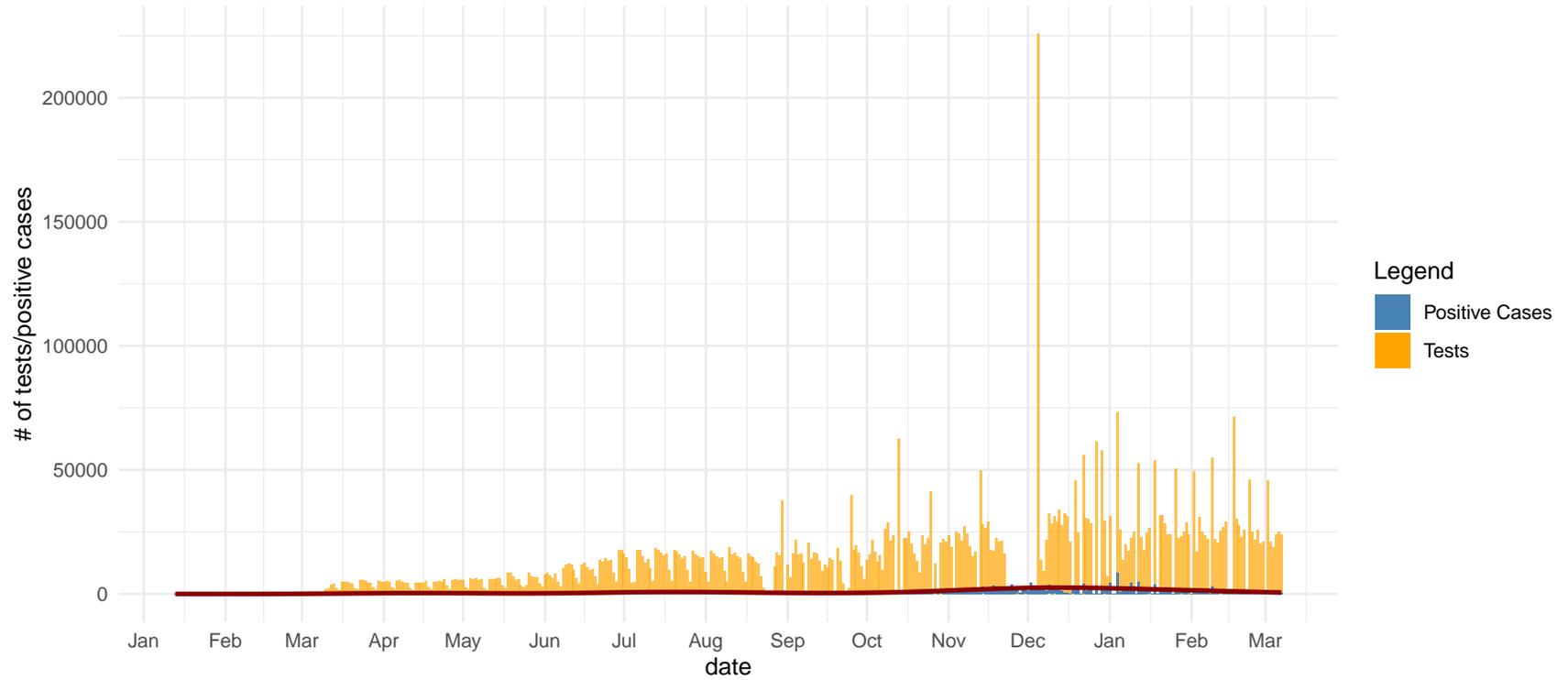
Source: CovidTracking.com
Created by Carlos Delgado Salas

Arizona

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)
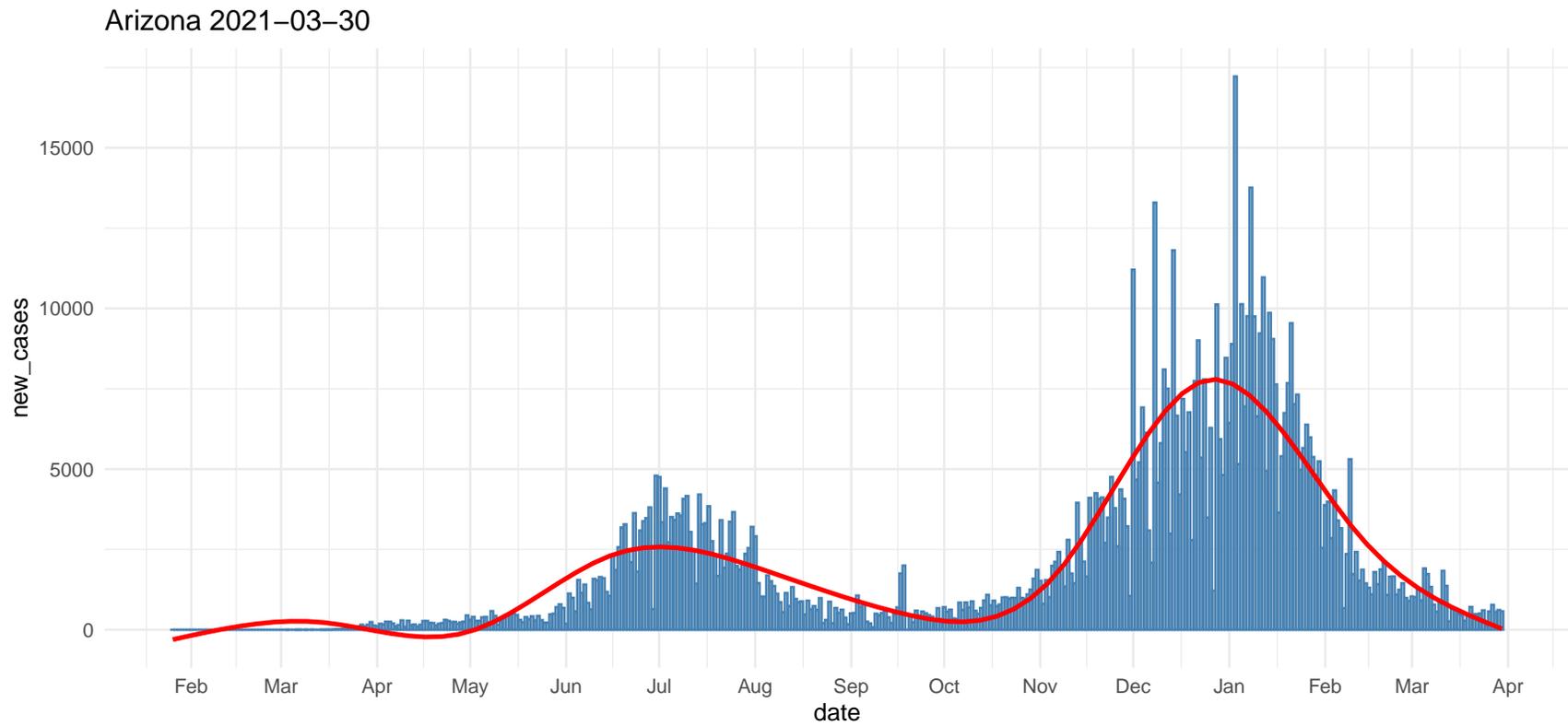
Source: New York Times
Created by Carlos Delgado Salas

Arizona daily COVID−19 tests and positive cases 2021−03−07
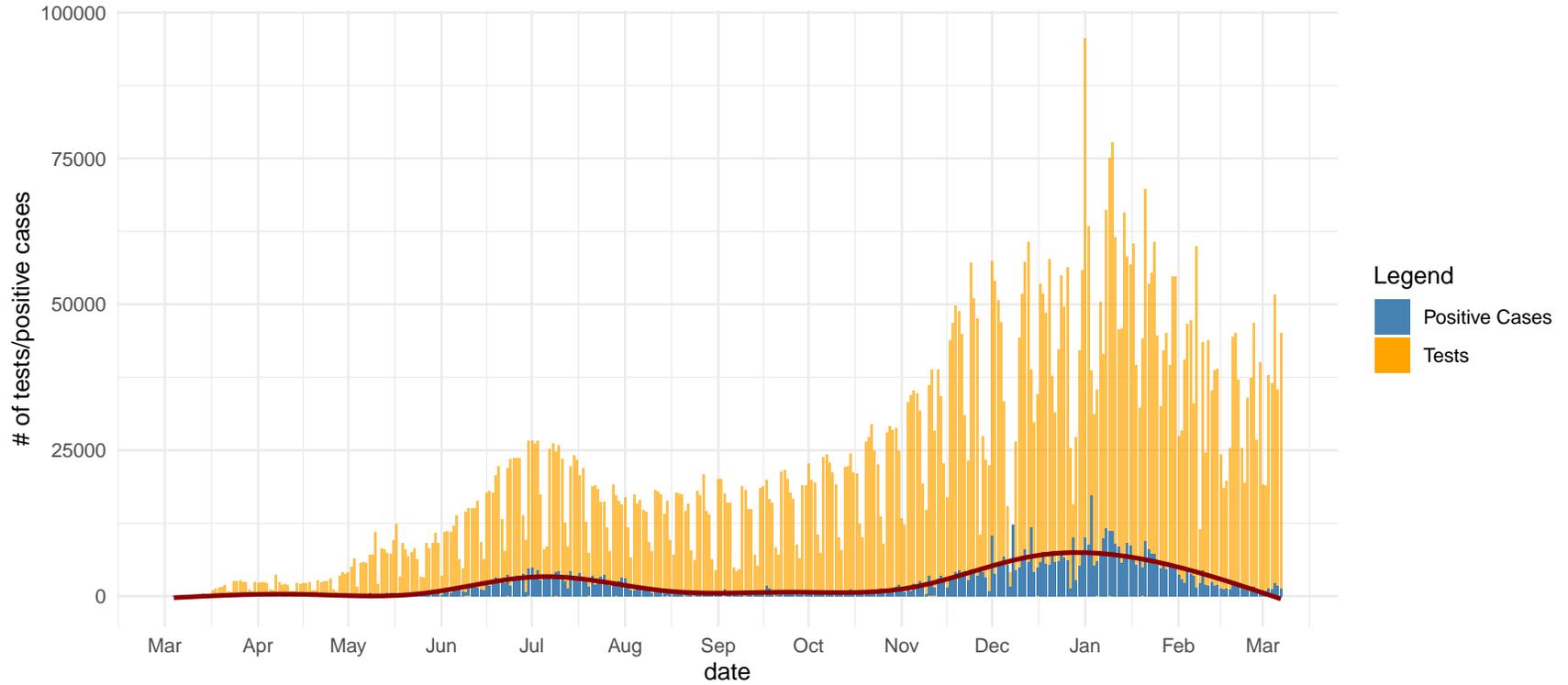
Source: CovidTracking.com
Created by Carlos Delgado Salas

Puerto Rico

Total Cases (with Loess Curve) and Total Cases (with Loess Curve) + Total testing

(The amount of new cases per day are shown in a bar and a Loess regression curve is fitted into the data to smoothen the curve) (These graphs may vary since they come from different data sources)

Puerto Rico 2021−03−30

Source: New York Times
Created by Carlos Delgado Salas

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Puerto Rico daily COVID−19 tests and positive cases 2021−03−07

Source: CovidTracking.com
Created by Carlos Delgado Salas