



# SARS OUTBREAK GLOBALLY

BETWEEN MARCH 2003 AND JULY 2003

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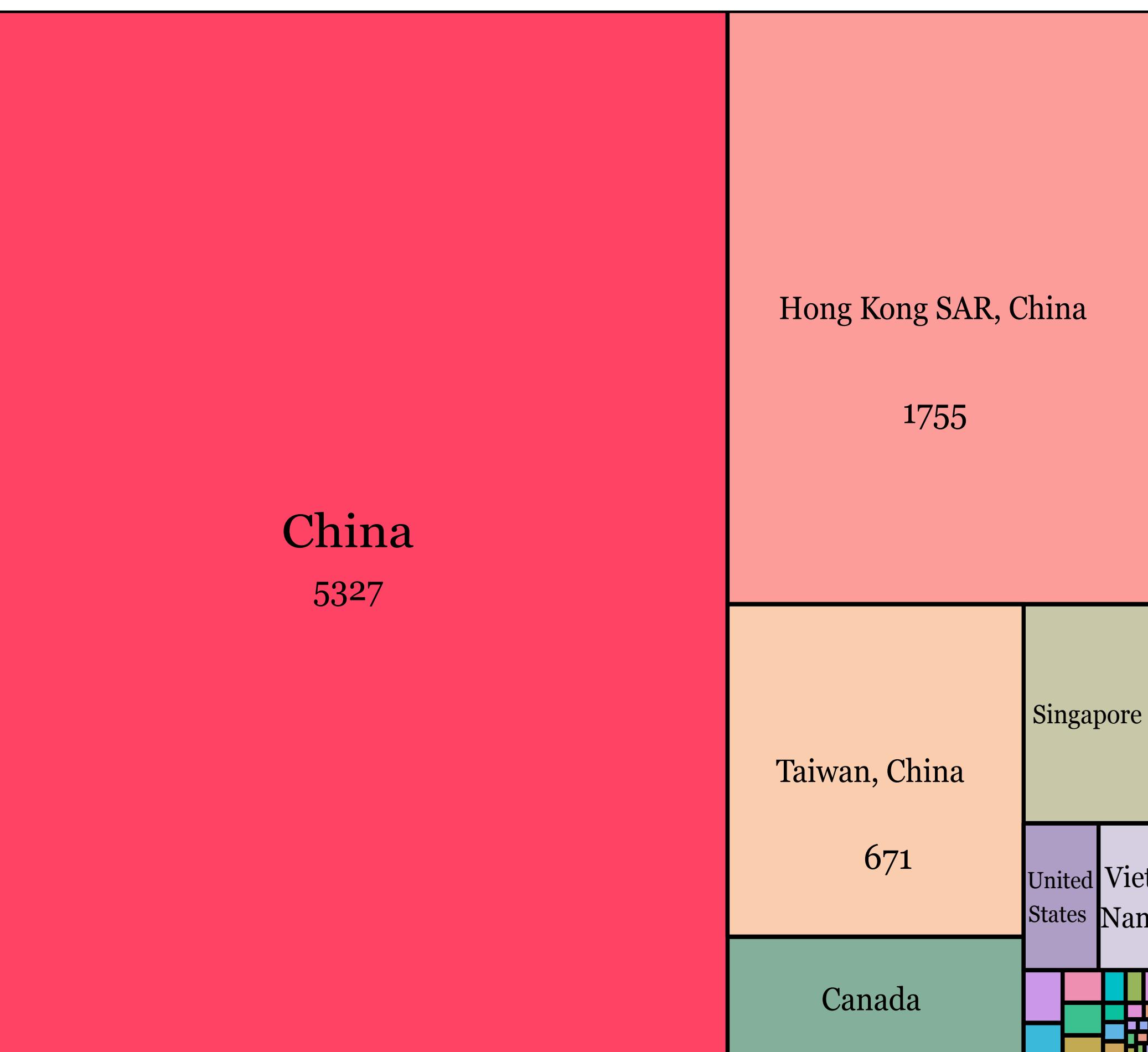
## Data Description

SARS outbreak globally contains SARS outbreak confirmed cases, deaths, recovered from March to July 2003. This dataset includes 2538 observations and 5 columns. After aggregating, the dataset has 8 columns.

People who want to compare the developing pattern of COVID-19 and SARS might be interested in this poster. For now, the most concerning questions is when will COVID-19 end? Maybe we can find answers through the history of SARS.

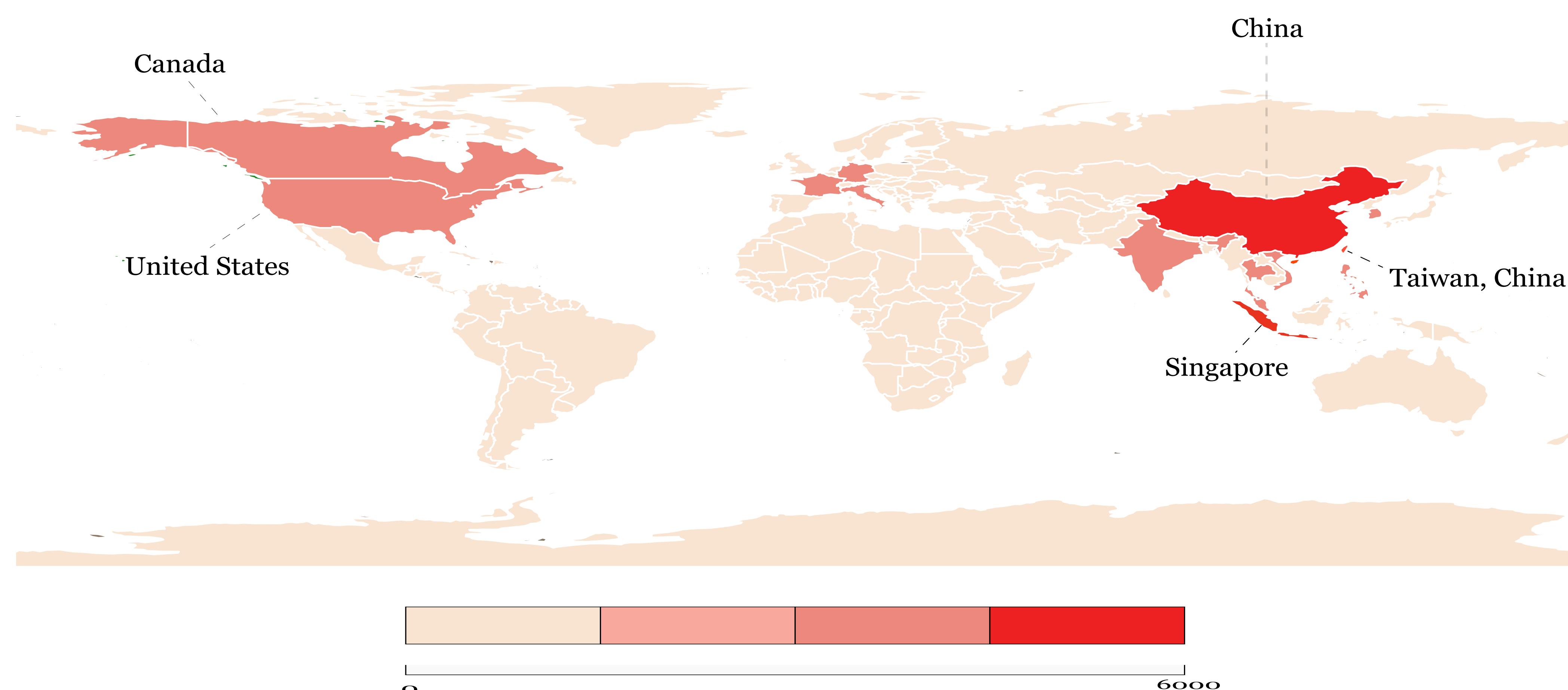
This analysis is to find which countries were mostly influenced by SARS? How did virus spread across the world? How was the death rate and recovered rate? How is the daily increase cases? And when did SARS end?

## Which countries were mostly influenced by SARS?



- Severe acute respiratory (SARS) is a viral respiratory disease of zoonotic origin caused by the SARS coronavirus.
- Between March 2003 and July 2003, an outbreak of SARS in southern China caused total 8432 cases reported in 31 countries, with majority of cases in mainland China, Hong Kong, China and Taiwan, China.
- In late 2017, Chinese scientists traced the virus through the intermediary of civets to cave-dwelling horseshoe bats in Yunnan province.

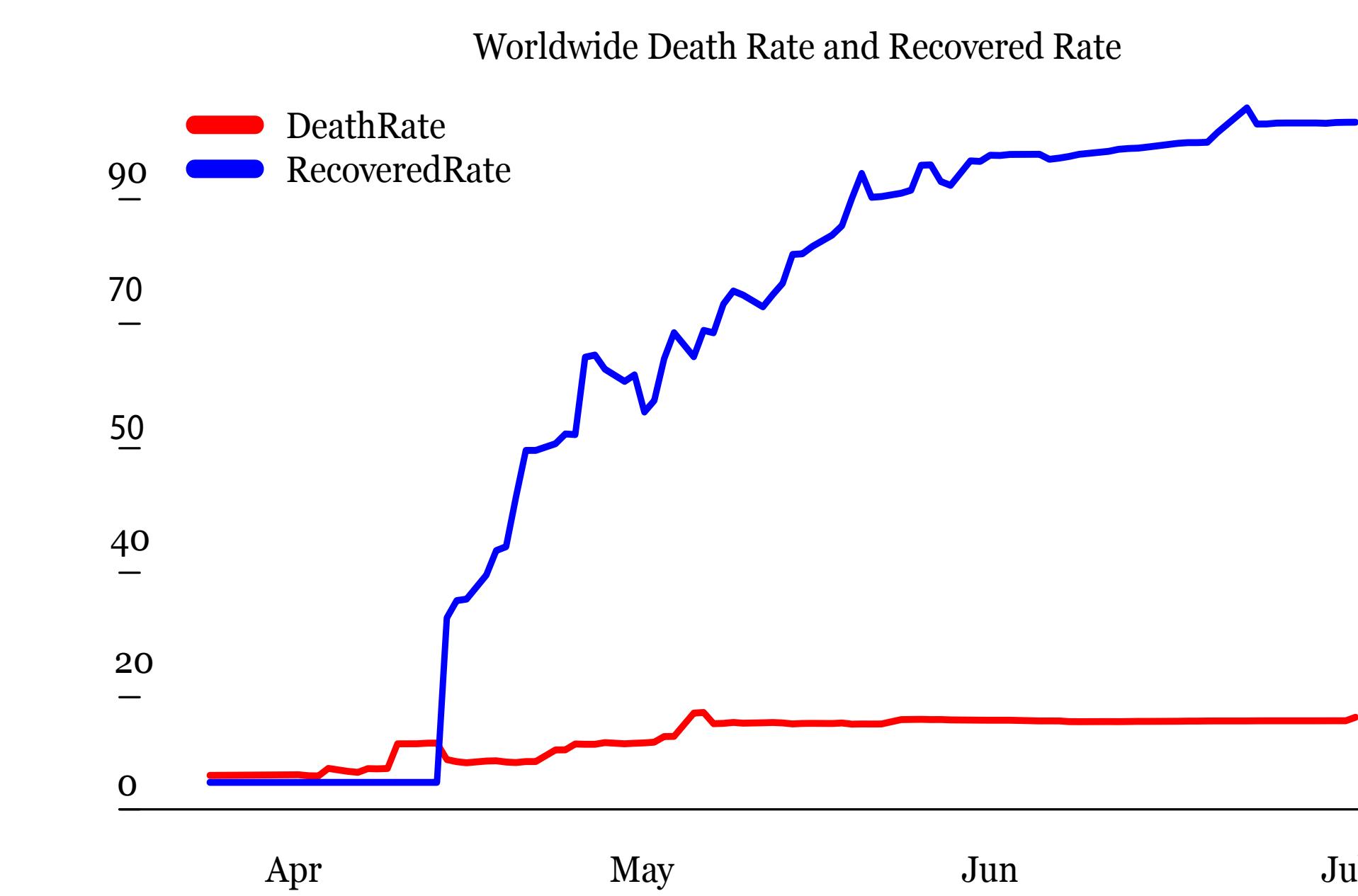
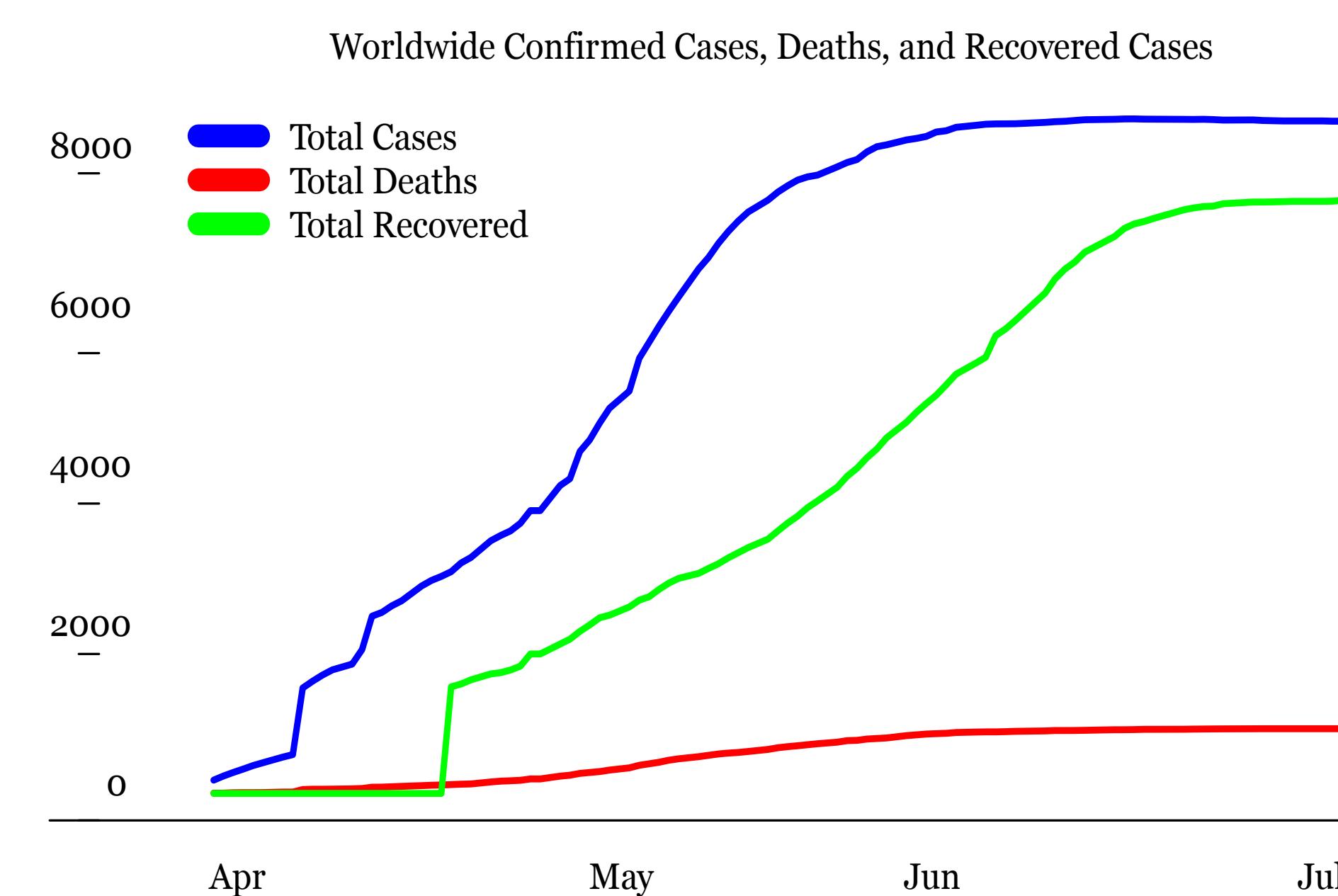
## How did virus spread all over the world?



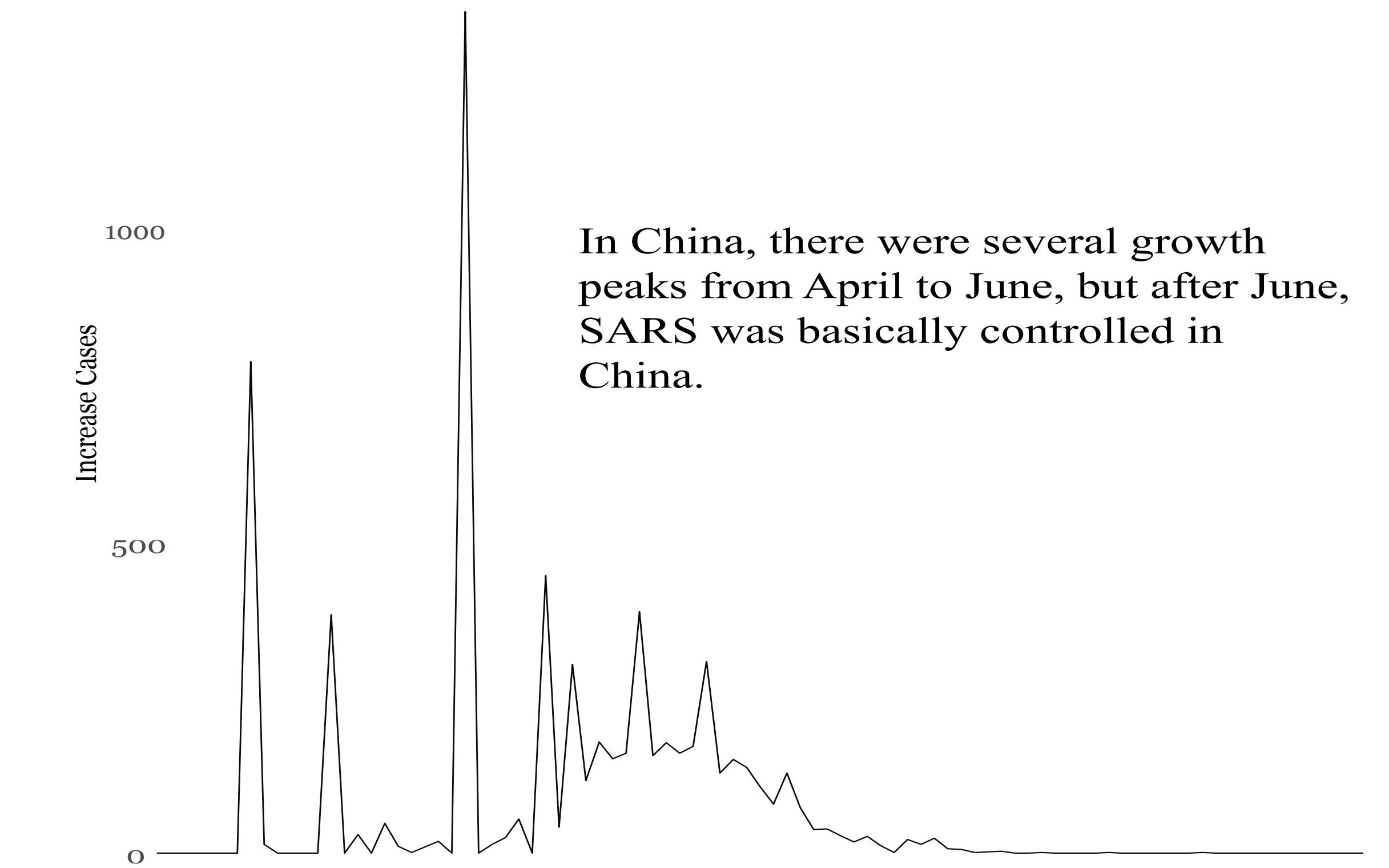
- Taiwan and Hongkong were the regions that most influenced by SARS except China mainland. Other countries in Southeast Asia, such as Singapore, Viet Nam, India and Indonesia were affected by varying degrees.
- In North America region, Canada and United States, were the two countries that had the most confirmed cases, but not that much compared to China, 250 and 75 cases separately.
- Although SARS spread to other countries as well, the situation in these countries was far less serious than in China.

## How was the confirmed cases, deaths, and recovered cases and how was the death and recovered rate?

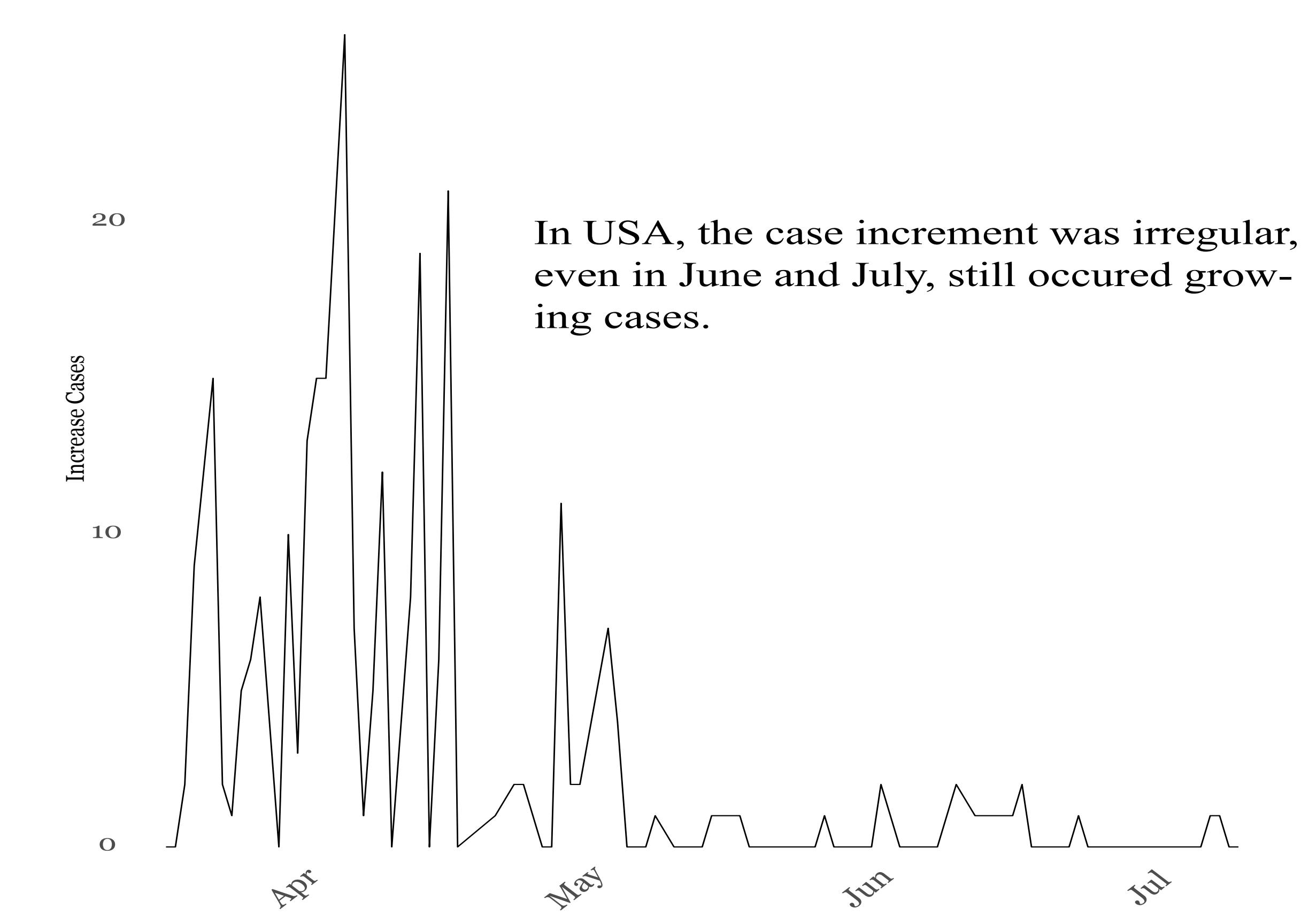
- From April to June in 2003, SARS confirmed cases increased rapidly, but after Jun, the confirmed cases went stable.
- In general, the recovered rate was far more than death rate especially after mid April.



## Case Analysis: Daily Increasing in China VS USA



In China, there were several growth peaks from April to June, but after June, SARS was basically controlled in China.



In USA, the case increment was irregular, even in June and July, still occurred growing cases.

## Policy Analysis - CDC SARS Response

cdc reported global new united hong issues cases travel health laboratory interim alert probable who singapore sars sars states toronto removed china traveler

The main anti-epidemic measures released by CDC at that time were travel alert to mainland China, Hongkong, Taiwan and Canada. While Chinese government appeal to the public to wear masks.