

Lockdown policies

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How did the different lockdown strategies affect the spread of the pandemic across different countries?

Our research consists of a systematic review of lockdown policies in 7 different countries and their efficiency in comparison with the evolution of the cases, deaths and number of people in ICU.

Choice of Datasets



Literature Review

- Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe. Nature.
- Effects of non-pharmaceutical interventions on COVID-19 cases, death and demand for hospital services in the UK: a modeling study. The Lancet public health.
- Epidemiokinetic Tools to Monitor Lockdown Efficacy and Estimate the Duration Adequate to Control SARS-CoV-2 Spread. Journal of Epidemiology and Global Health
- A Cross-Country Panel Analysis. Applied Health Economics and Health Policy
- Efficacy of government responses to COVID-19 in mediterranean countries. Risk Management and Healthcare Policy

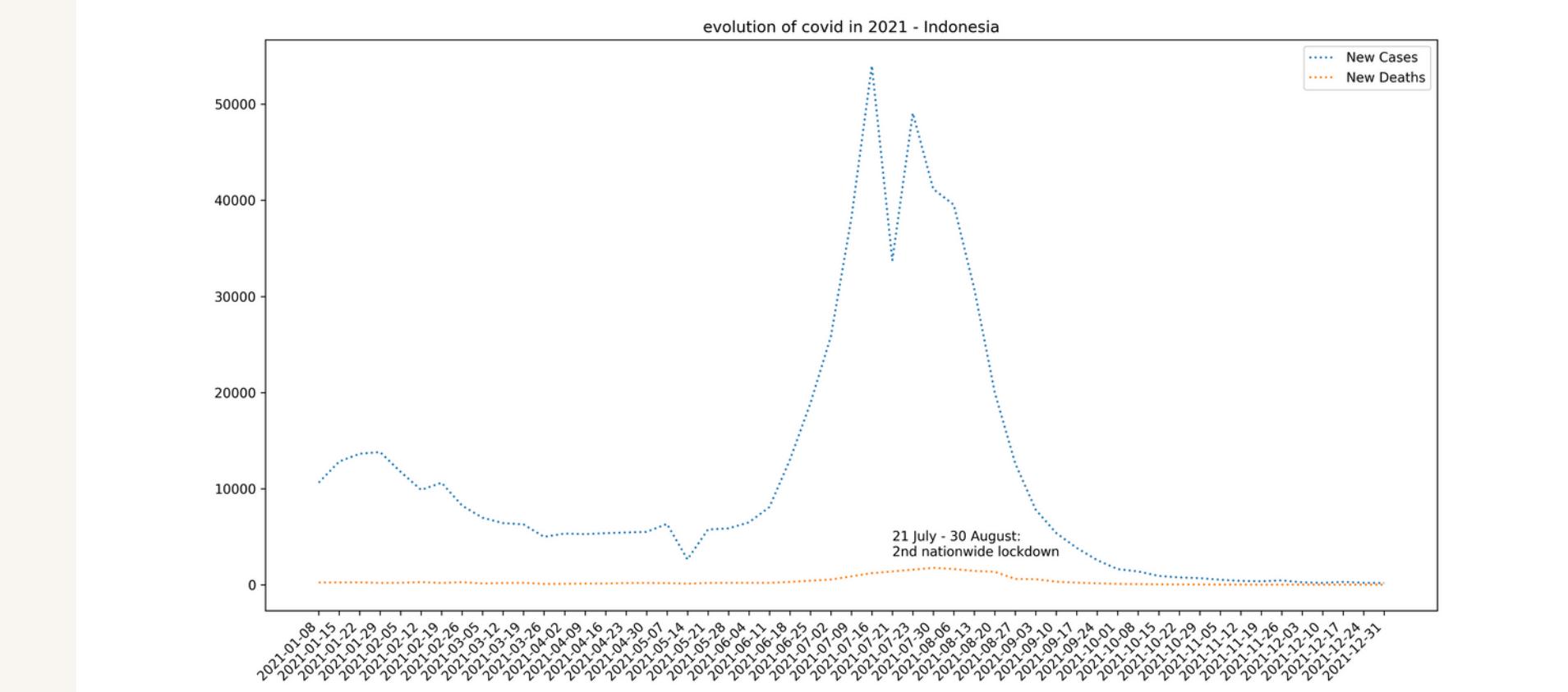
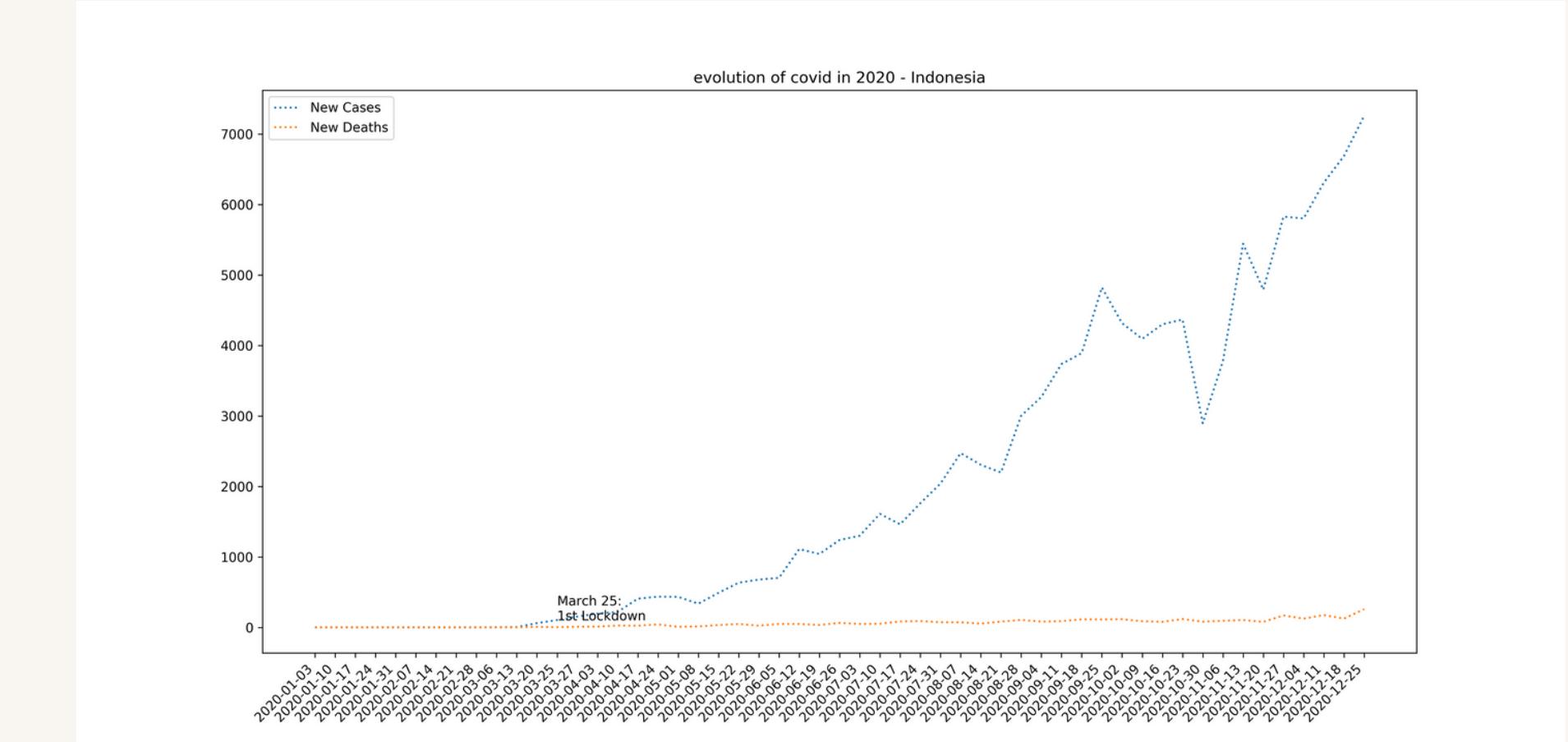




How lockdown policies differ in 7 countries

Indonesia

- 2020: A nationwide strict lockdown (March–December)
- 2021: Nationwide lockdowns with regulations according to the situation of each region.
- The disrespect towards the applied regulations made the lockdowns longer.

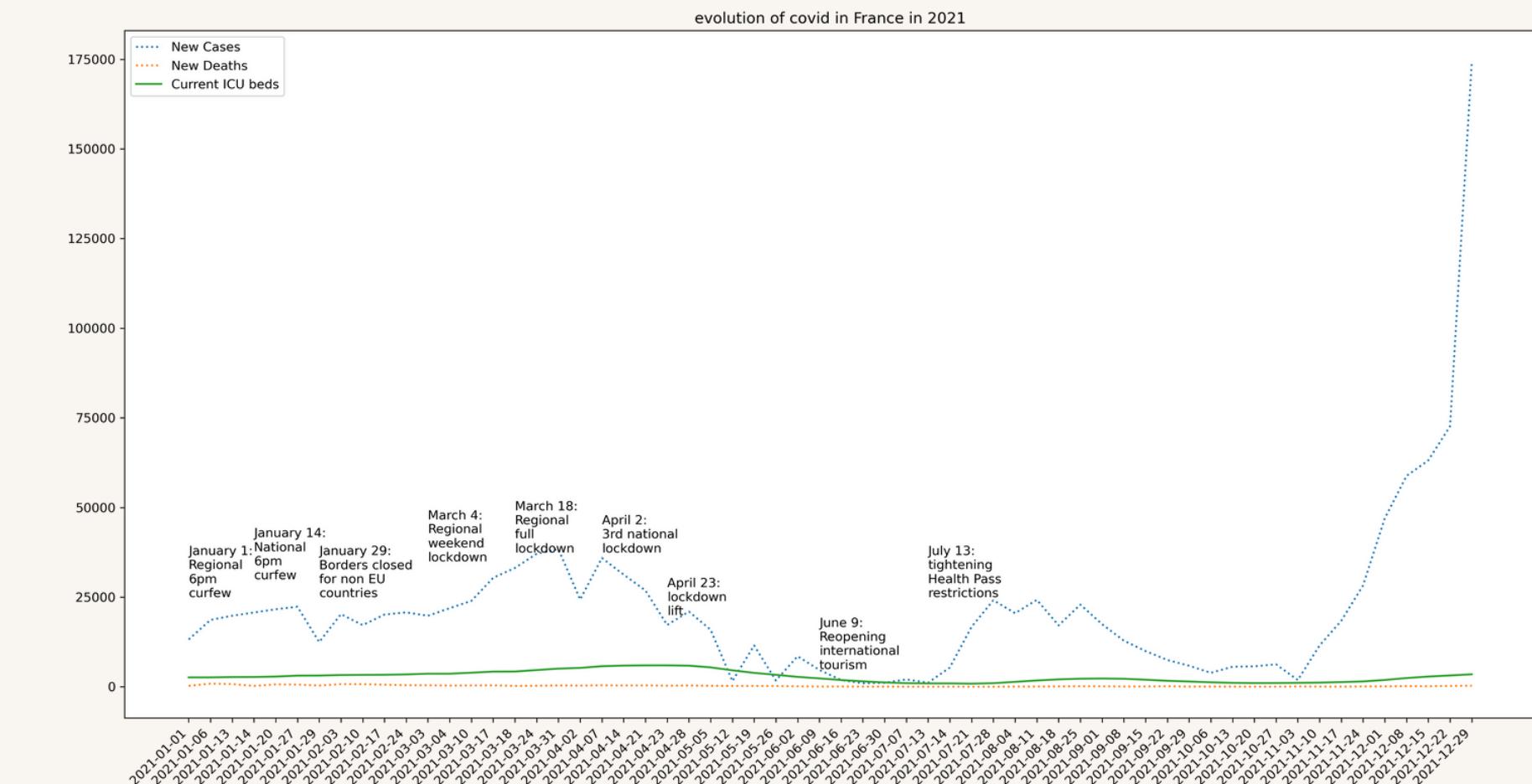
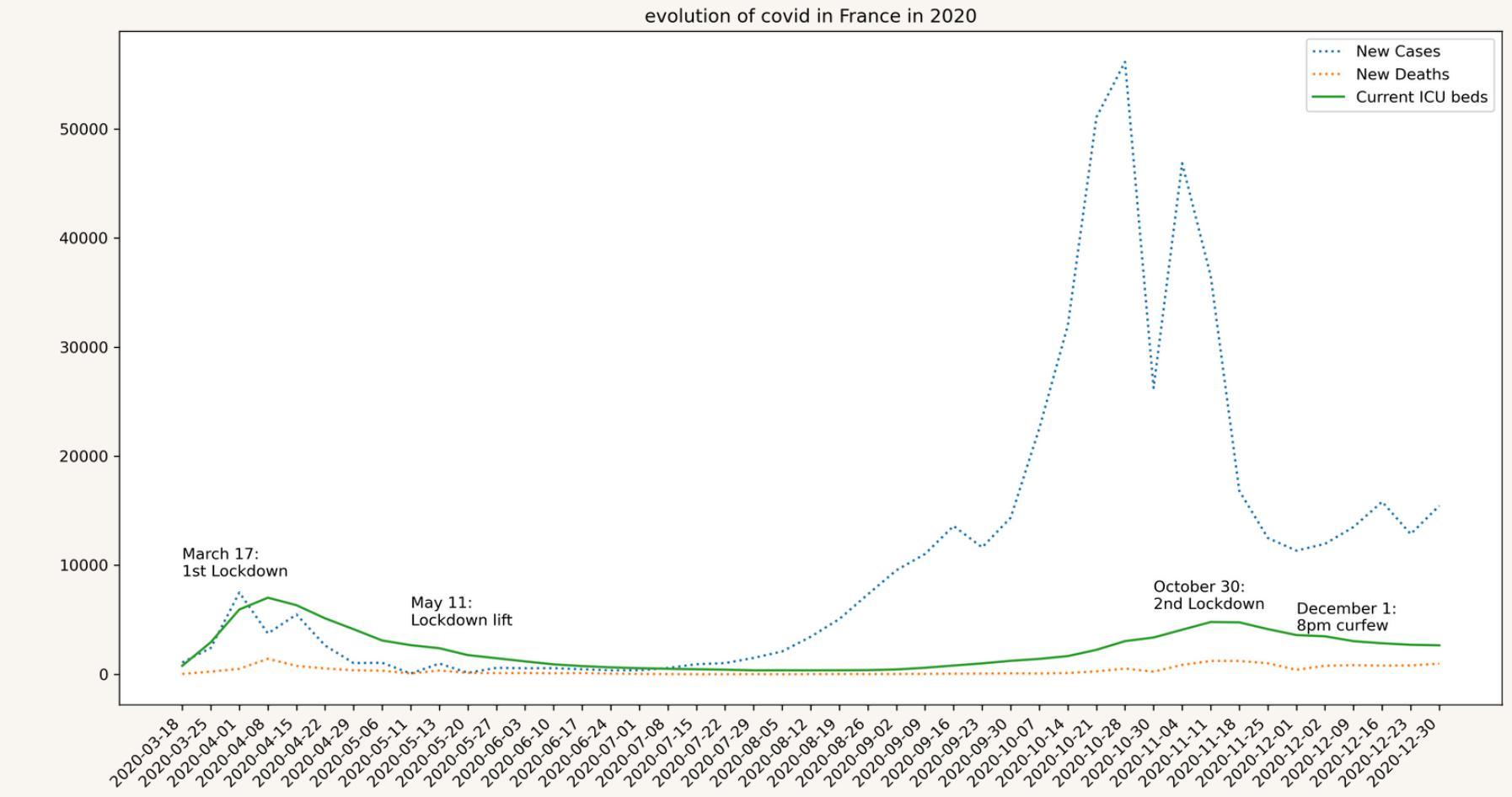




France

- 1st nationwide lockdown 03-17-2020→05-10-2020
- Lockdown lift: barrier measures
- 2 zones: red and green (schools closed in red)
- 2nd nationwide lockdown 10-30-2020→12-01-2020
- 8pm curfew (holiday season)

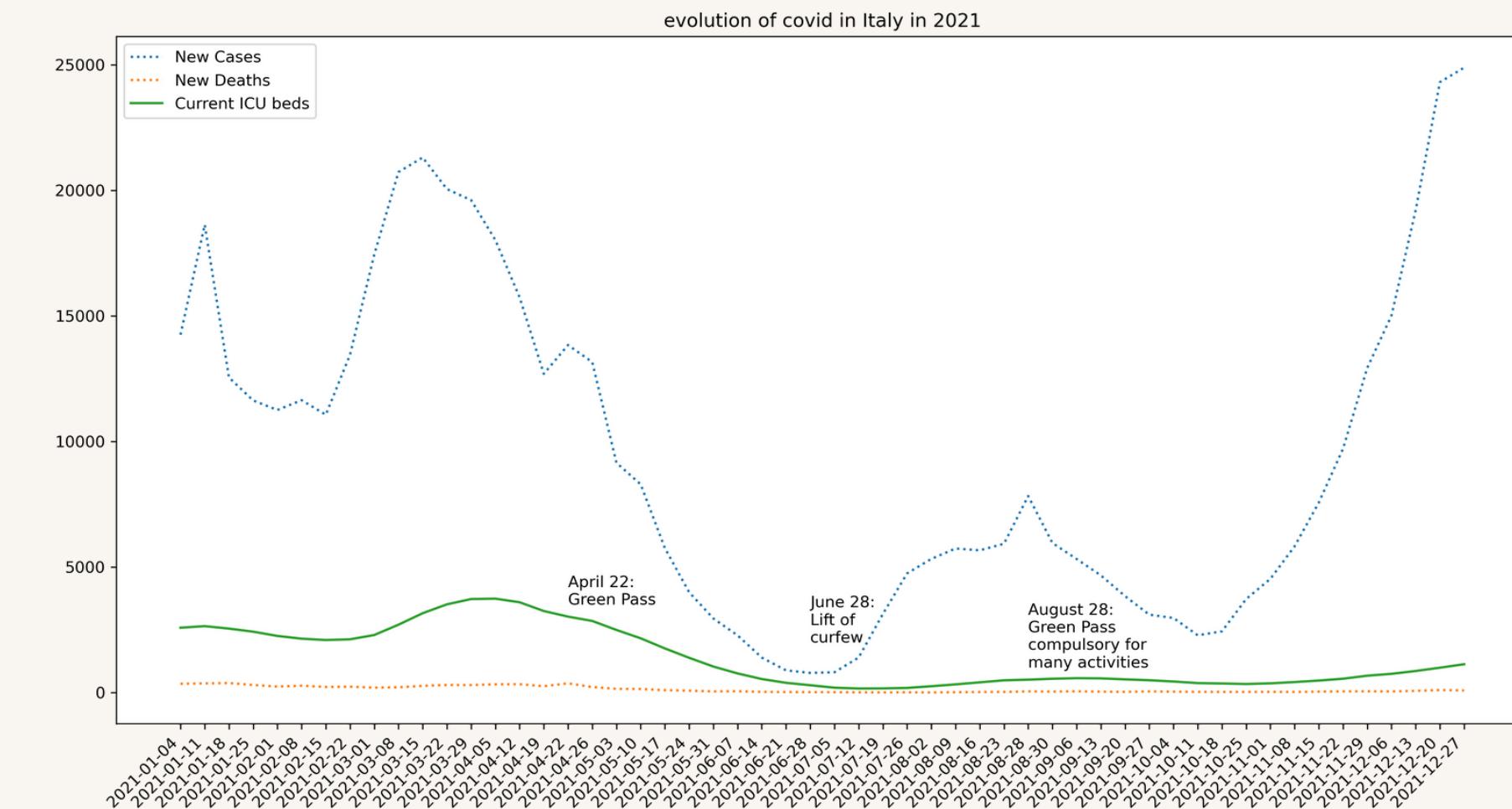
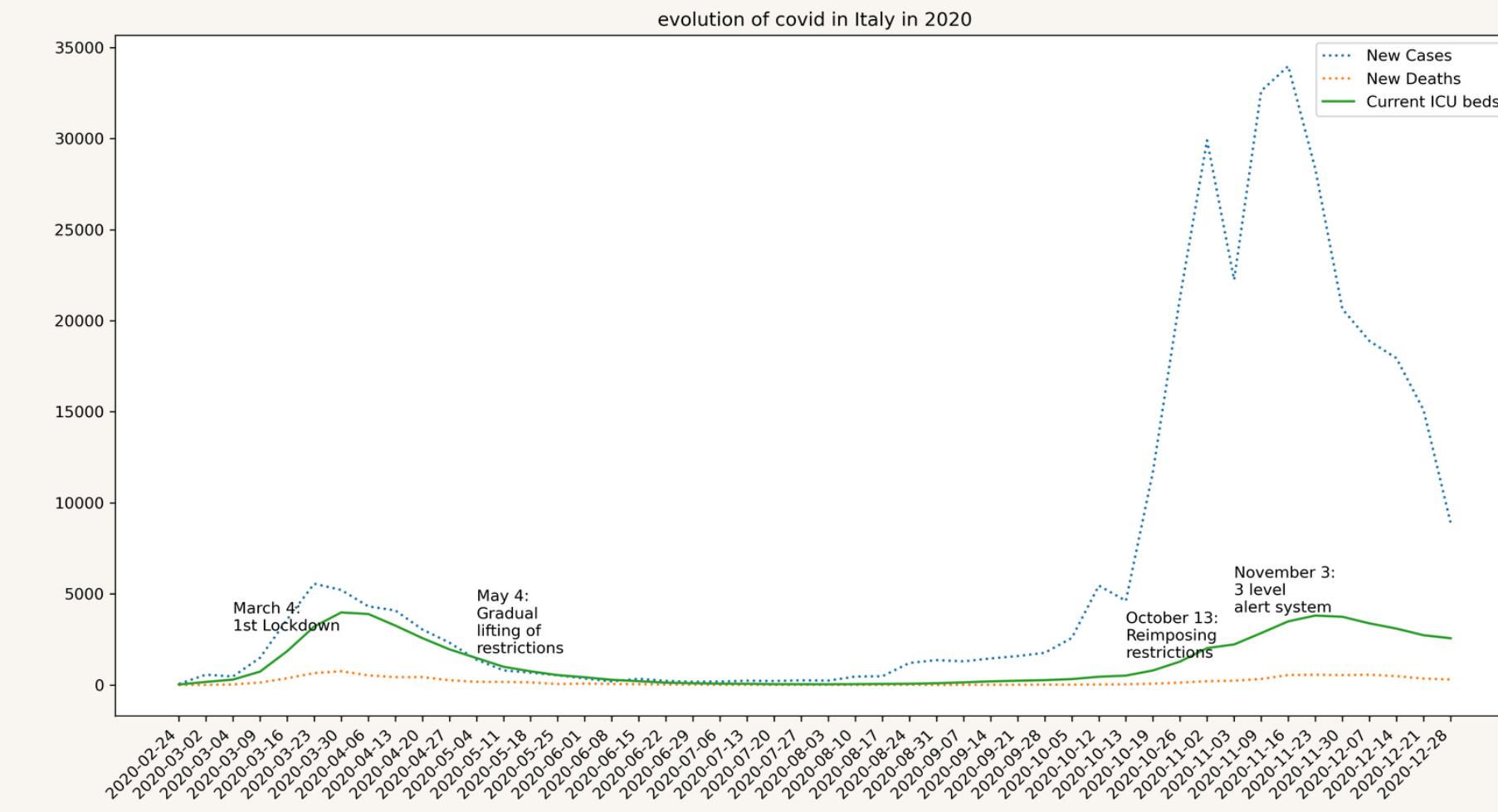
- 6pm regional curfew 01-01-2021
- 6pm nationwide curfew 01-09-2021
- weekend regional lockdown 03-04-2021
- full regional lockdown 03-18-2021
- full nationwide lockdown 04-02-2021
- lockdown lift, health pass, urge of vaccination
- tourism reopening 06-29-2021





Italy

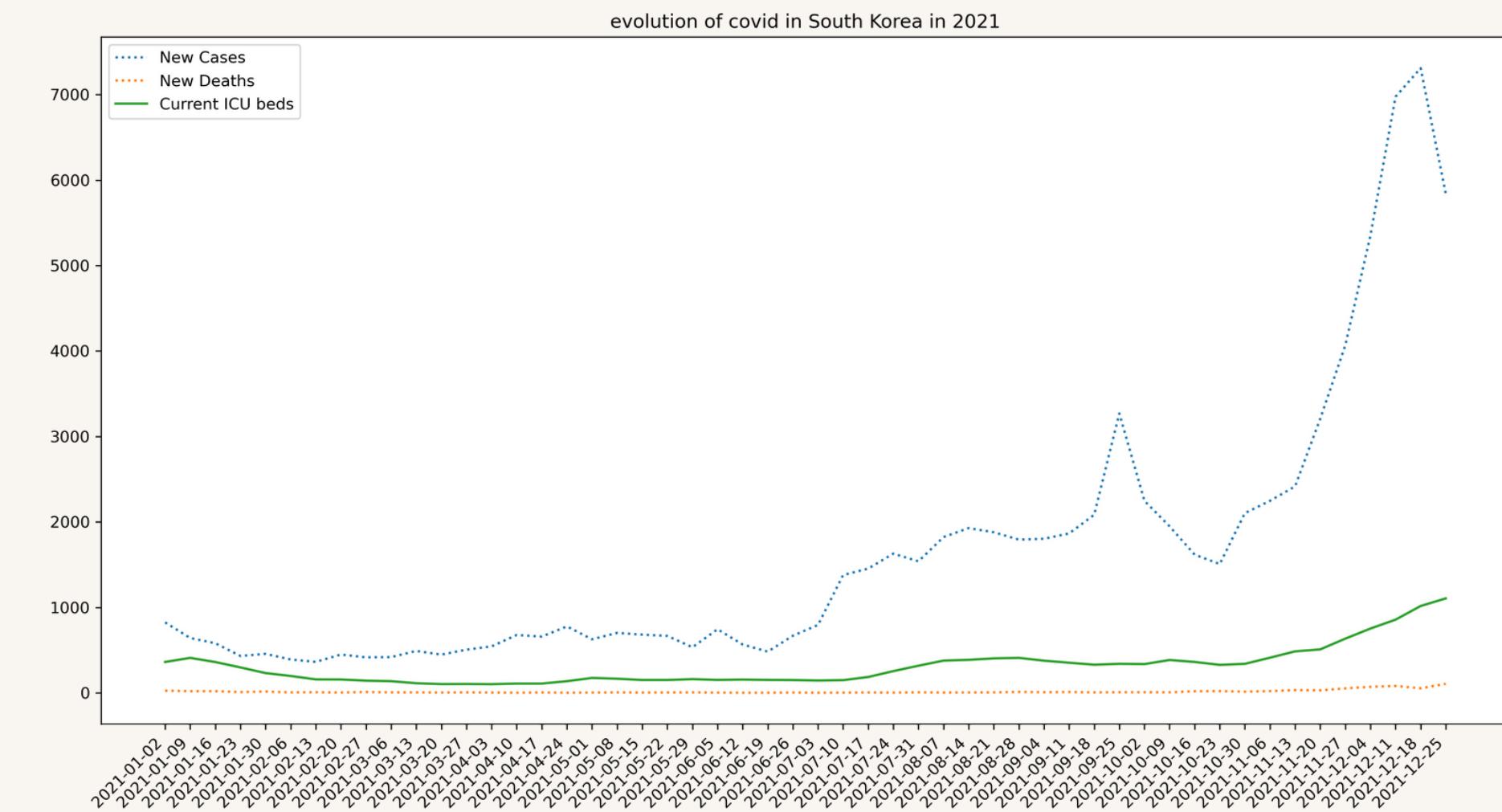
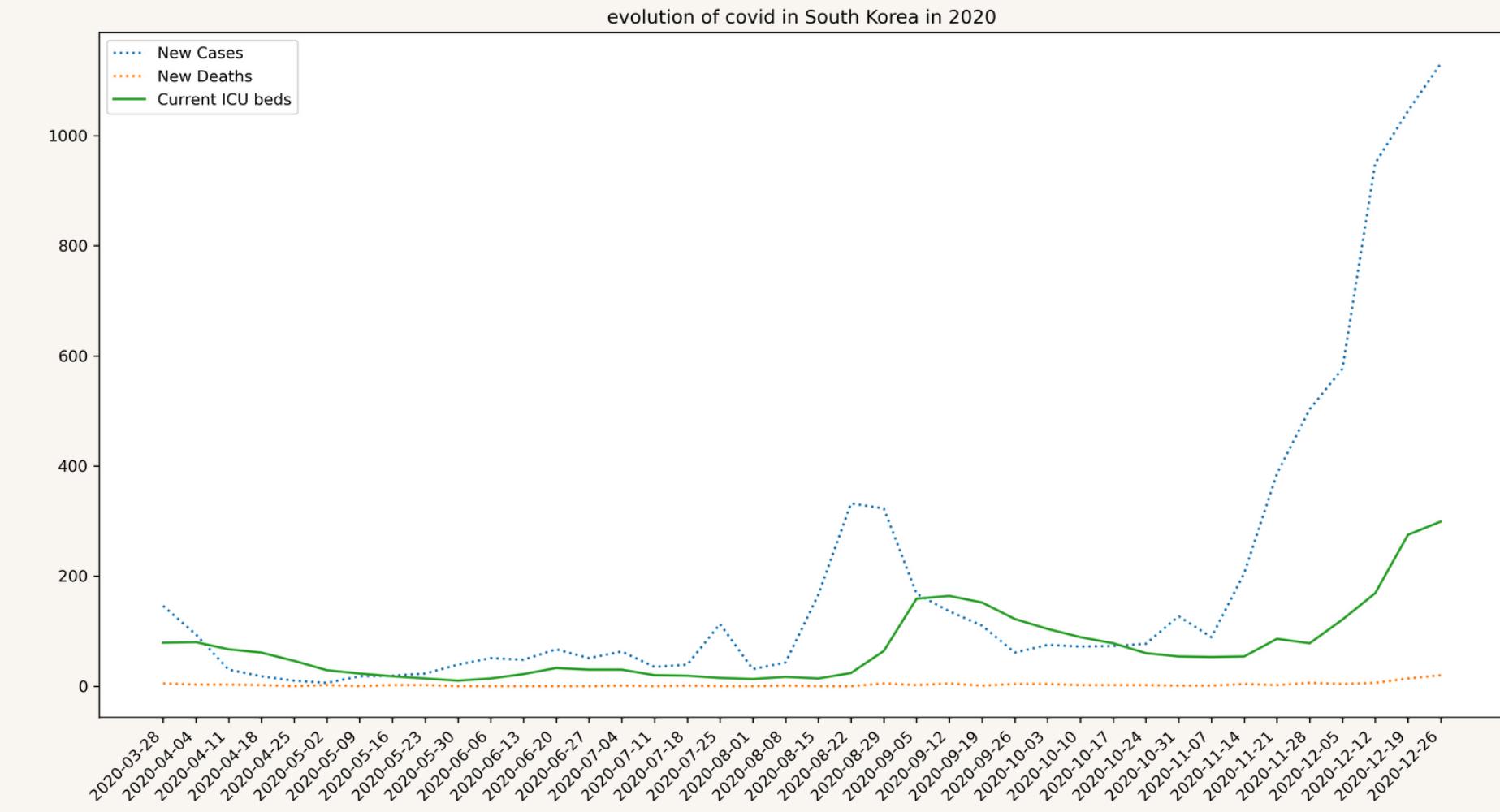
- one strict lockdown 04-03-2020 → 04-05-2020
- alert color system (03-11-2020) with weekly update
- preventing the healthcare system to collapse
- restrictions only where needed
- strong emphasis on vaccination (2021)





South Korea

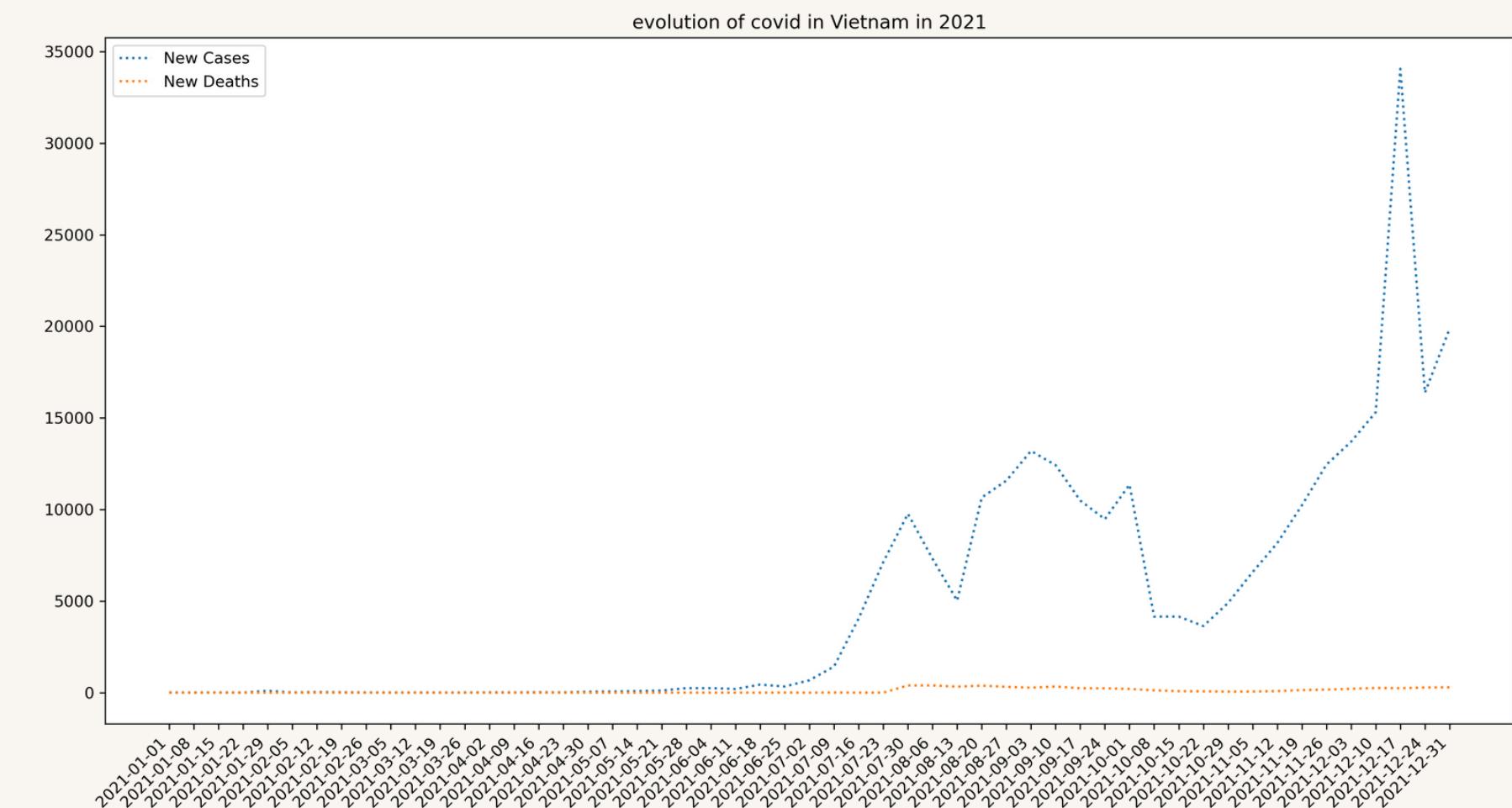
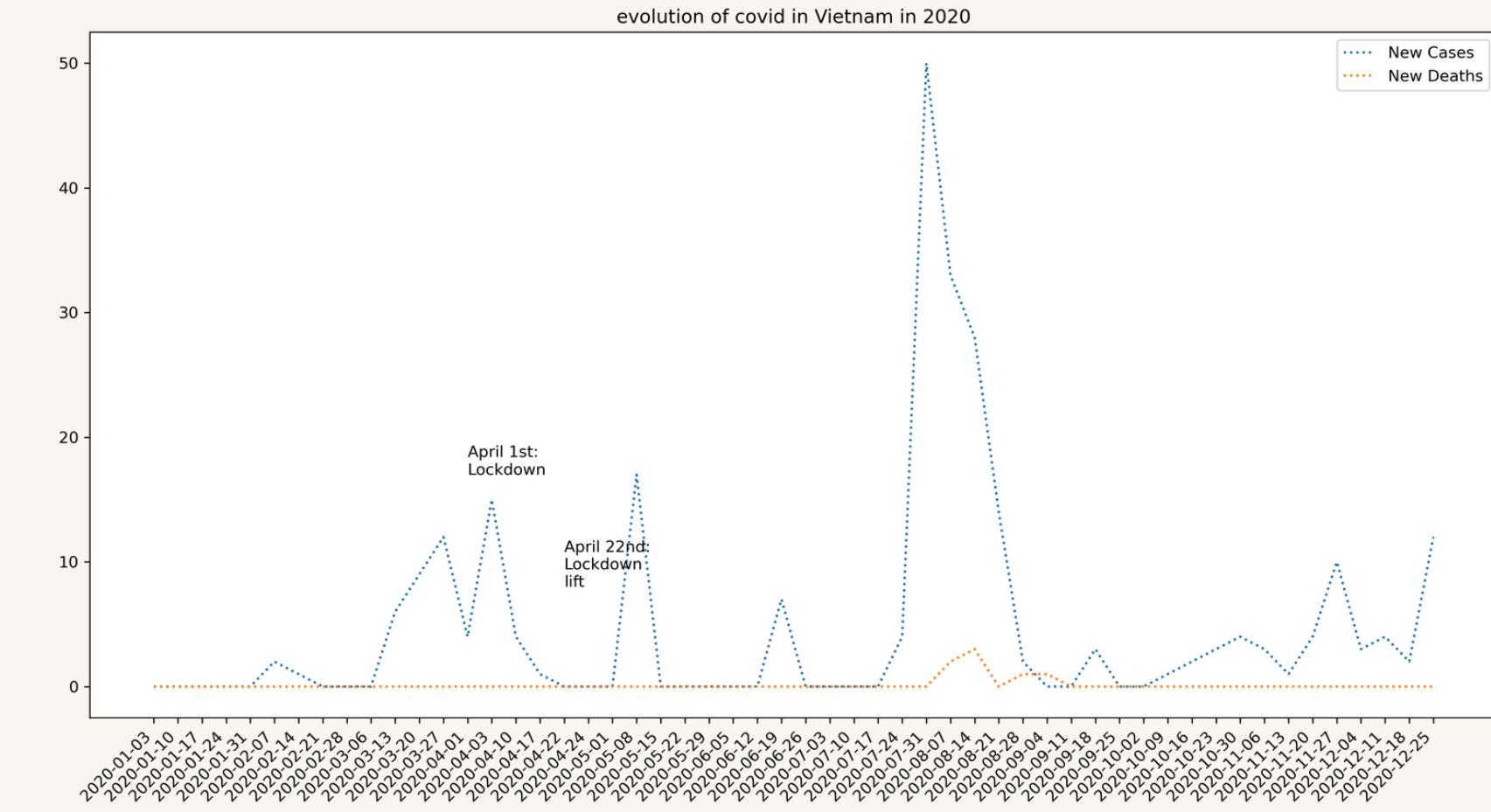
- No lockdown
- Alert level system ranging from level 1 to level 4 starting 20th January 2020 accompanied by massive screening of the population.
- Use of the “3T Method” (test, trace and treat)





Vietnam

- National lockdown from April 1. to April 22
- Some regional lockdown
- Relying heavily on barrier gestures

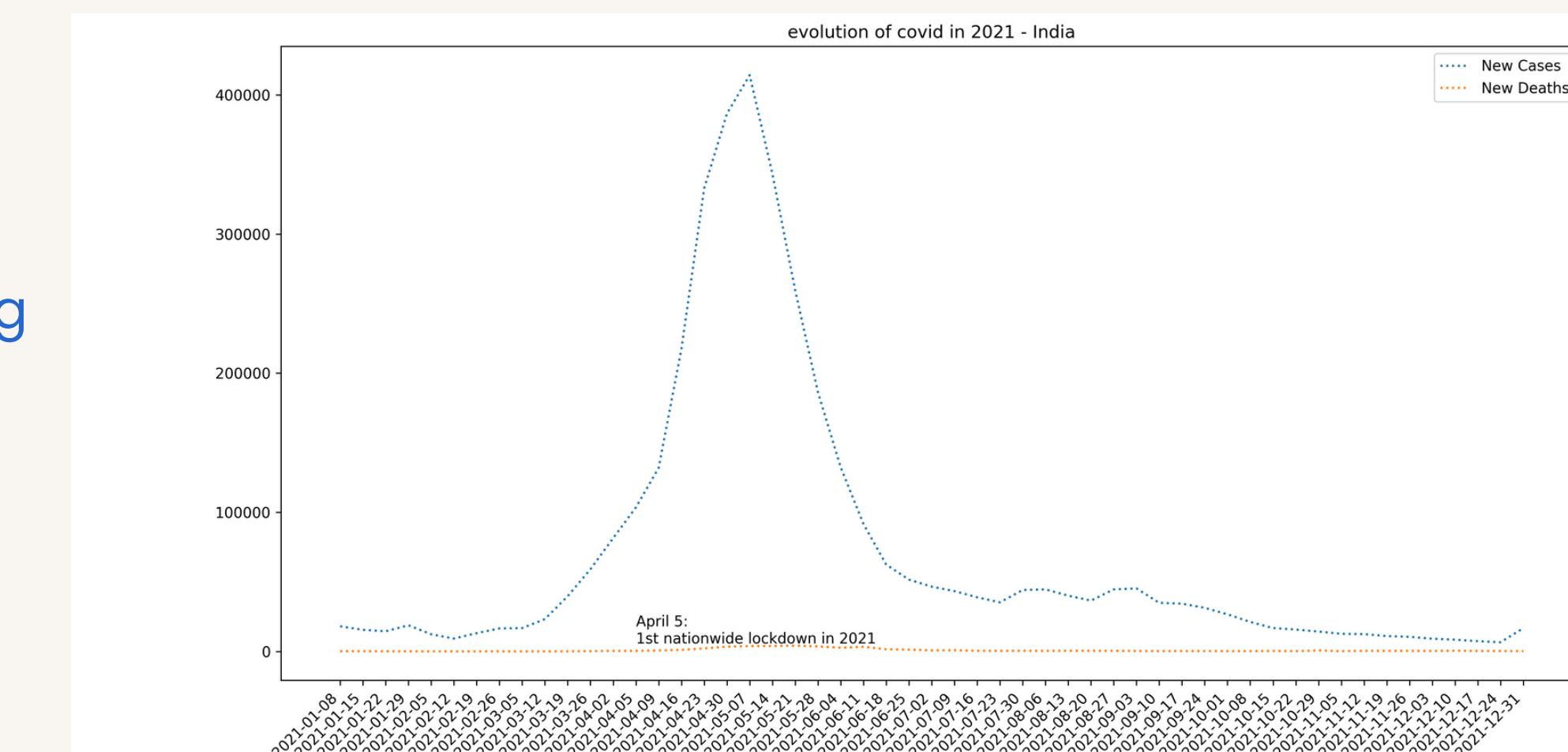
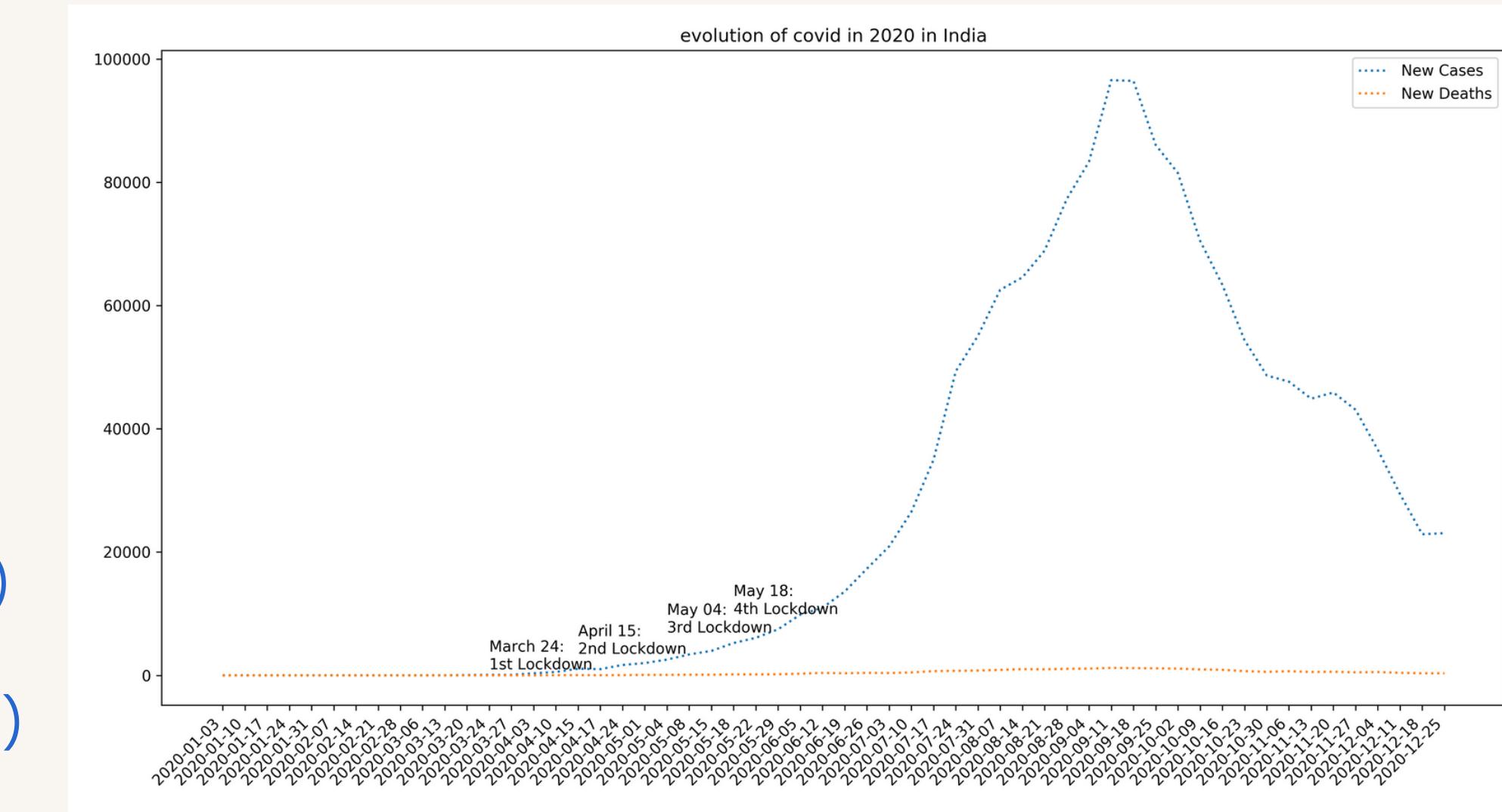


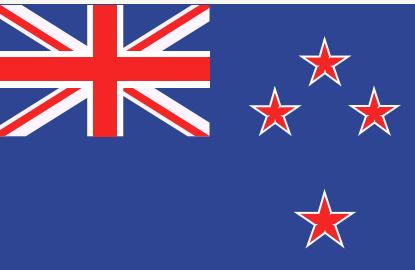


India

- Nationwide lockdowns:
- Phase 1: 24 March 2020 – 14 April 2020 (21 days)
- Phase 2: 15 April 2020 – 3 May 2020 (19 days)
- Phase 3: 4 May 2020 – 17 May 2020 (14 days)
- Phase 4: 18 May 2020 – 31 May 2020 (14 days)
- April 5–15 June 2021

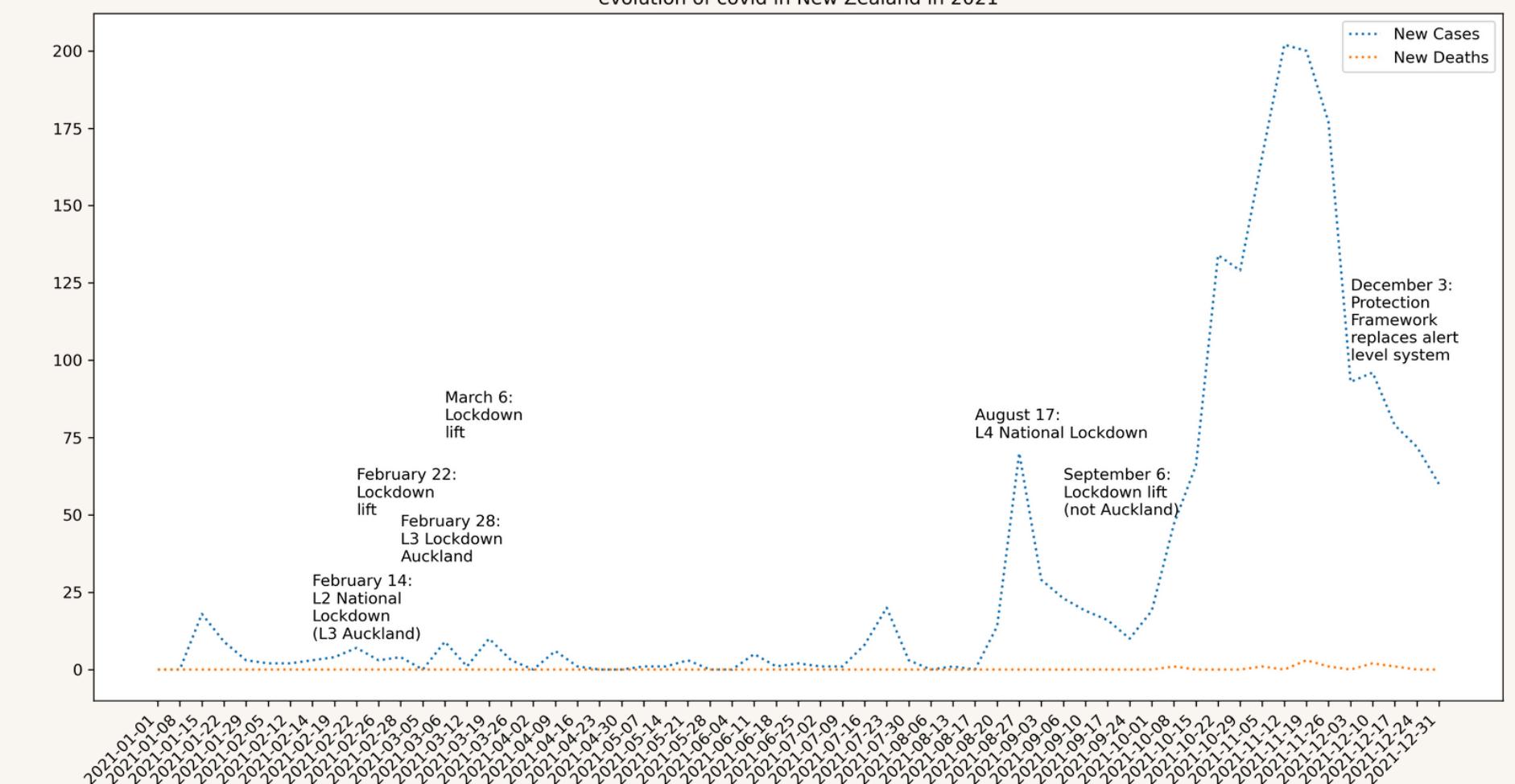
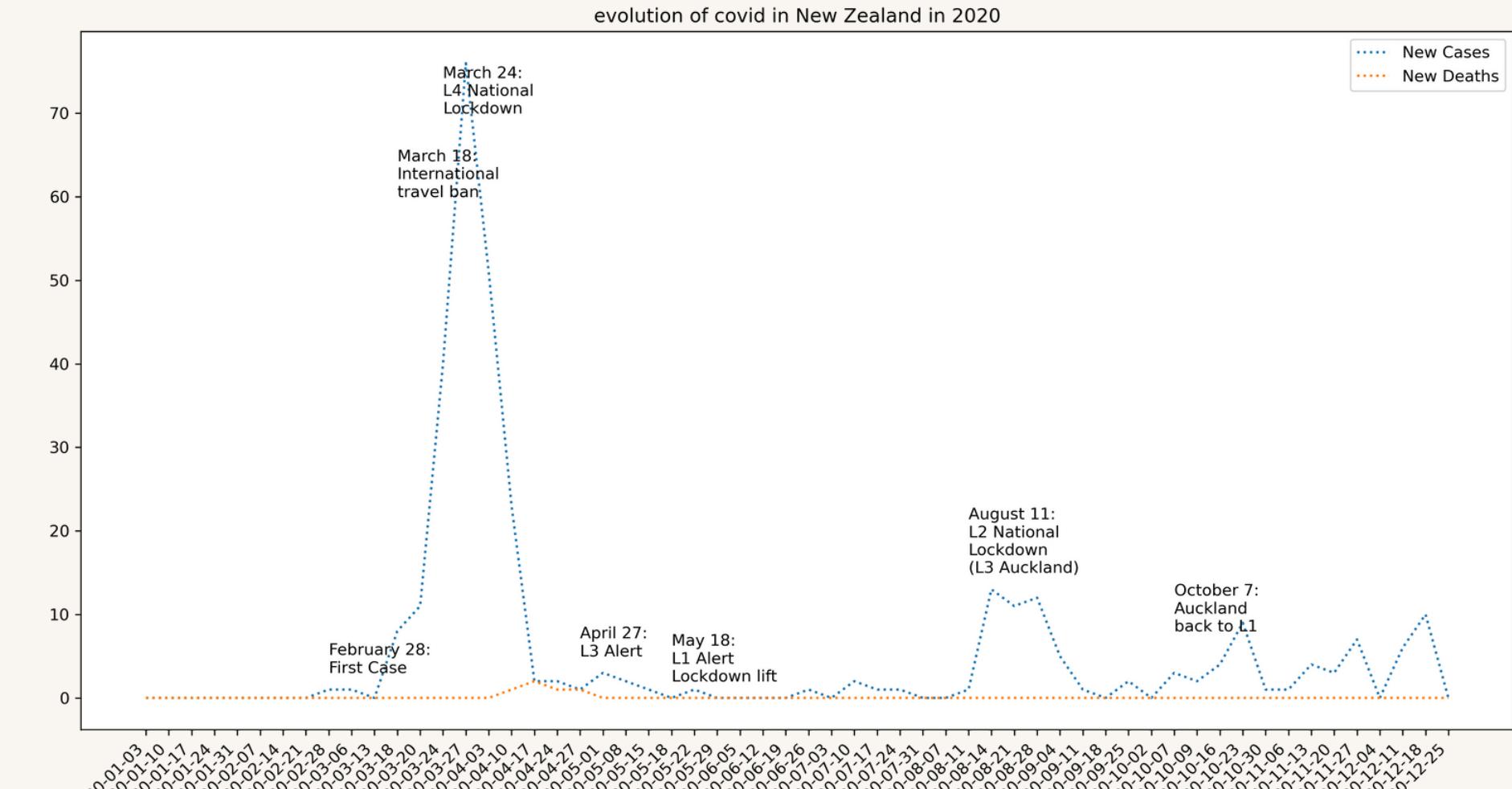
- The applications of zones (red, orange and green) to determine the regulations and mobility of each region.
- From 15 June 2021, Many States started lifting lockdowns and restrictions and moved in Unlock (end of lockdown) phase.



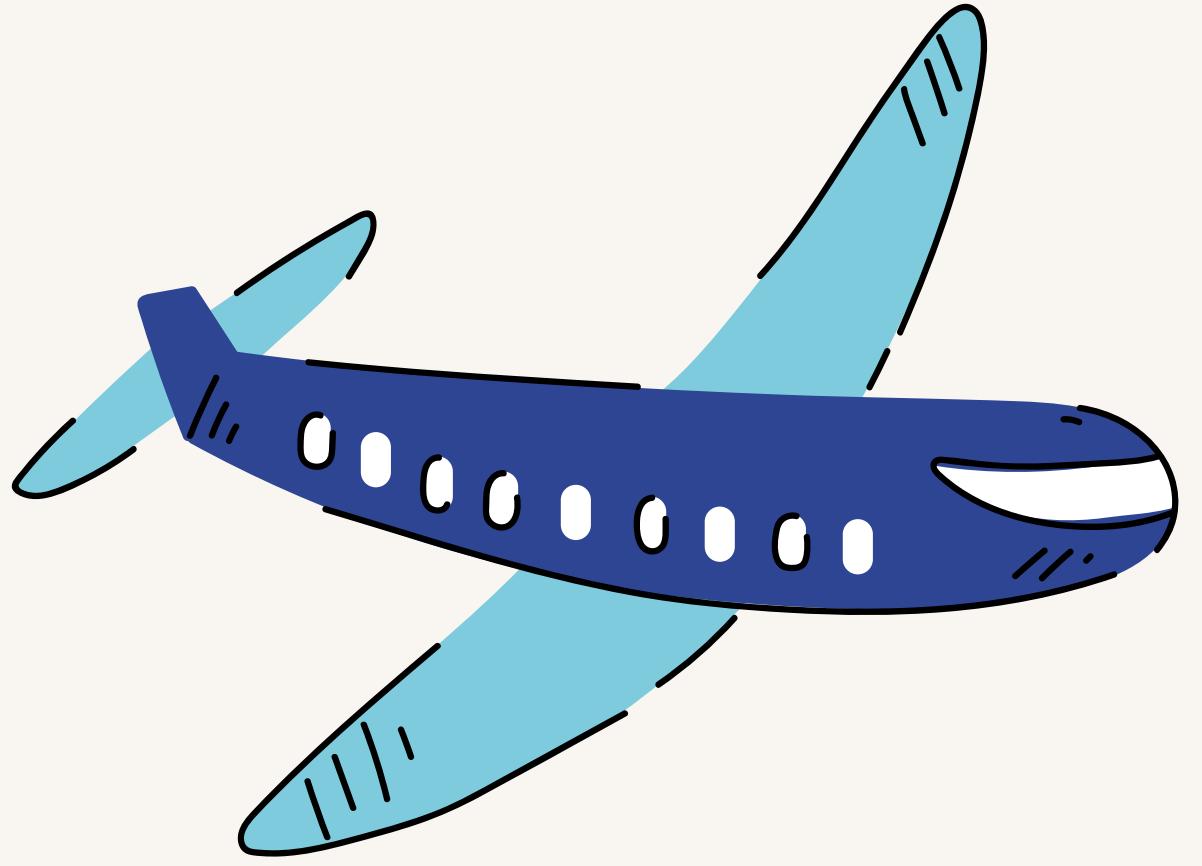


New Zealand

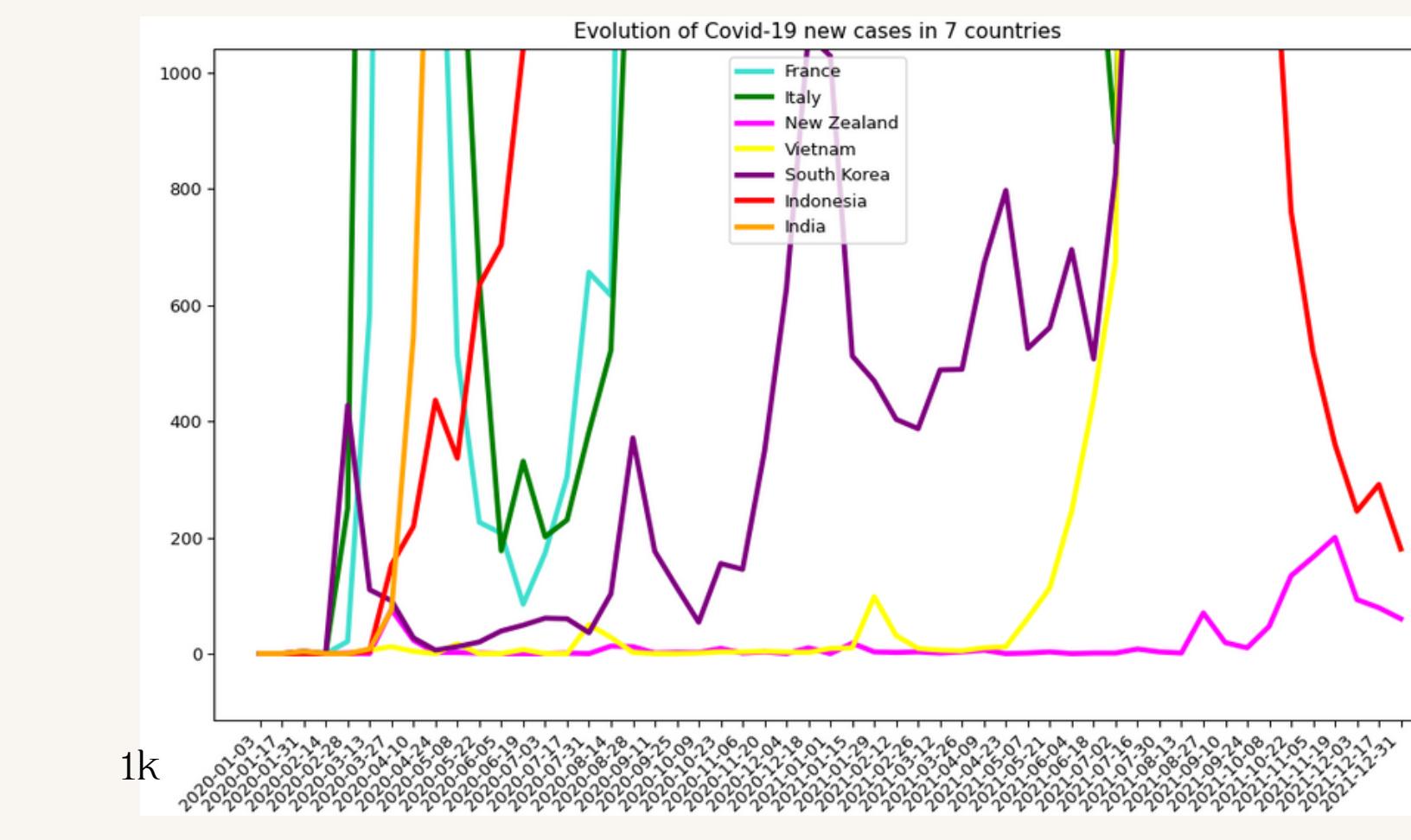
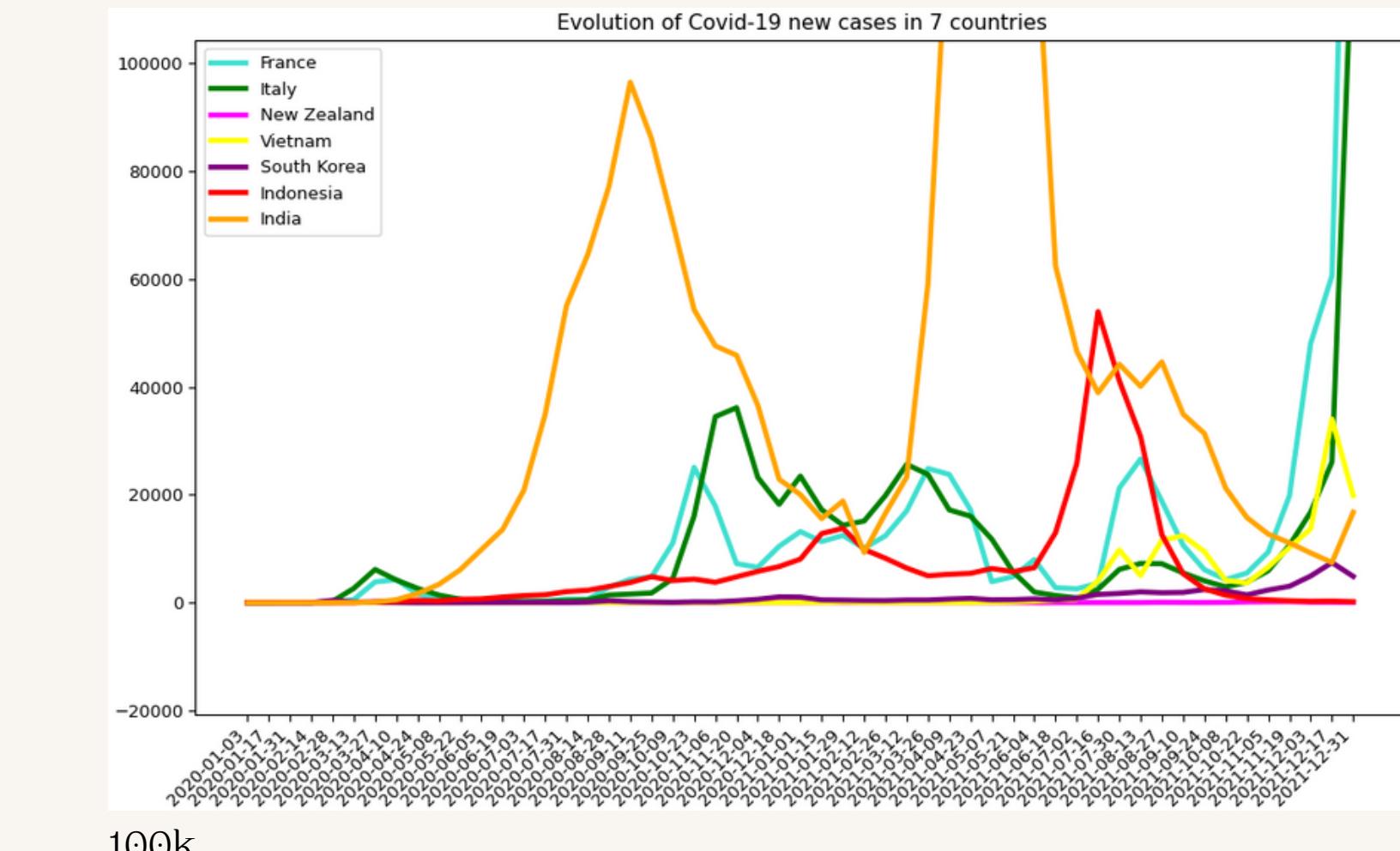
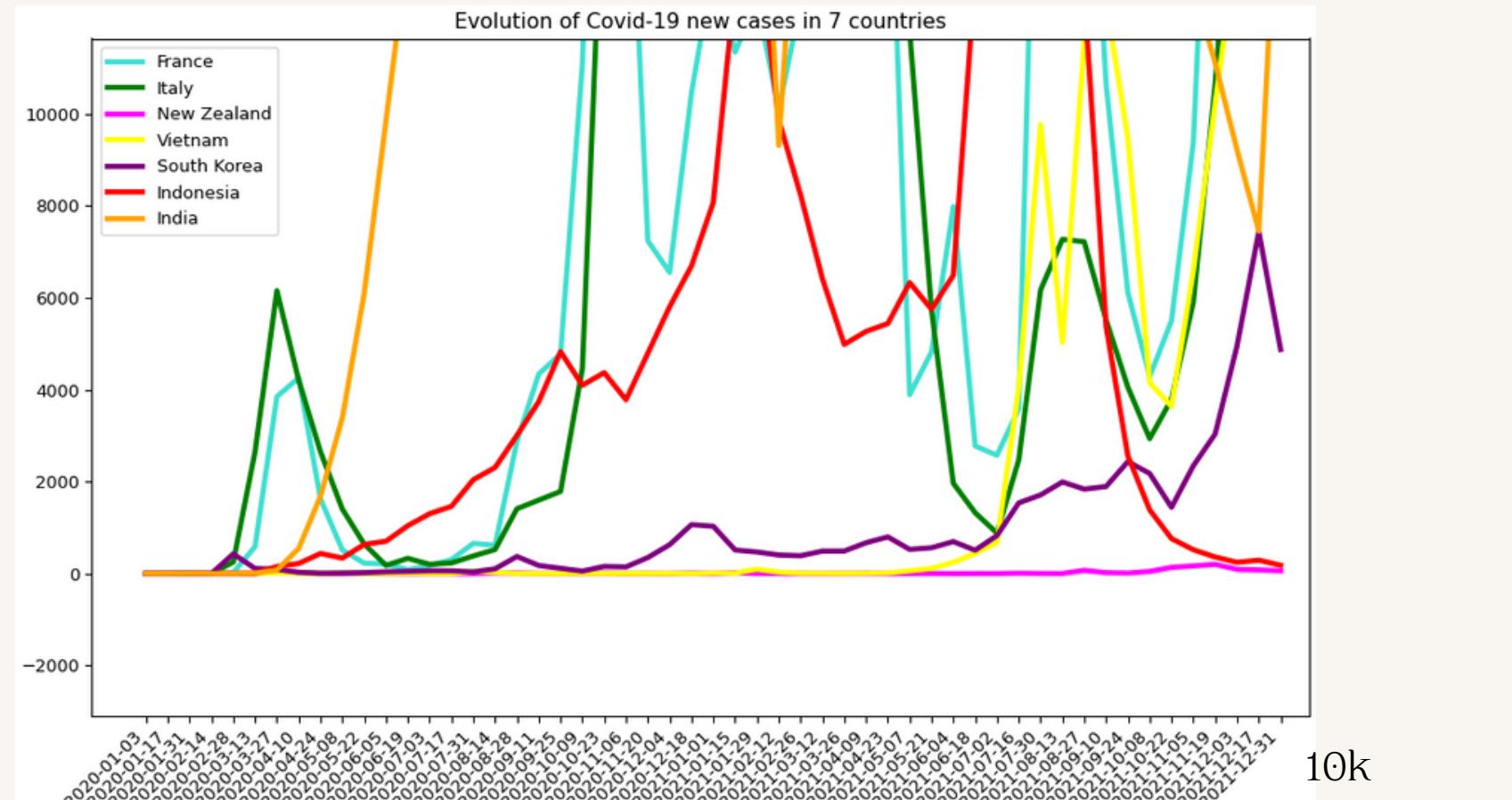
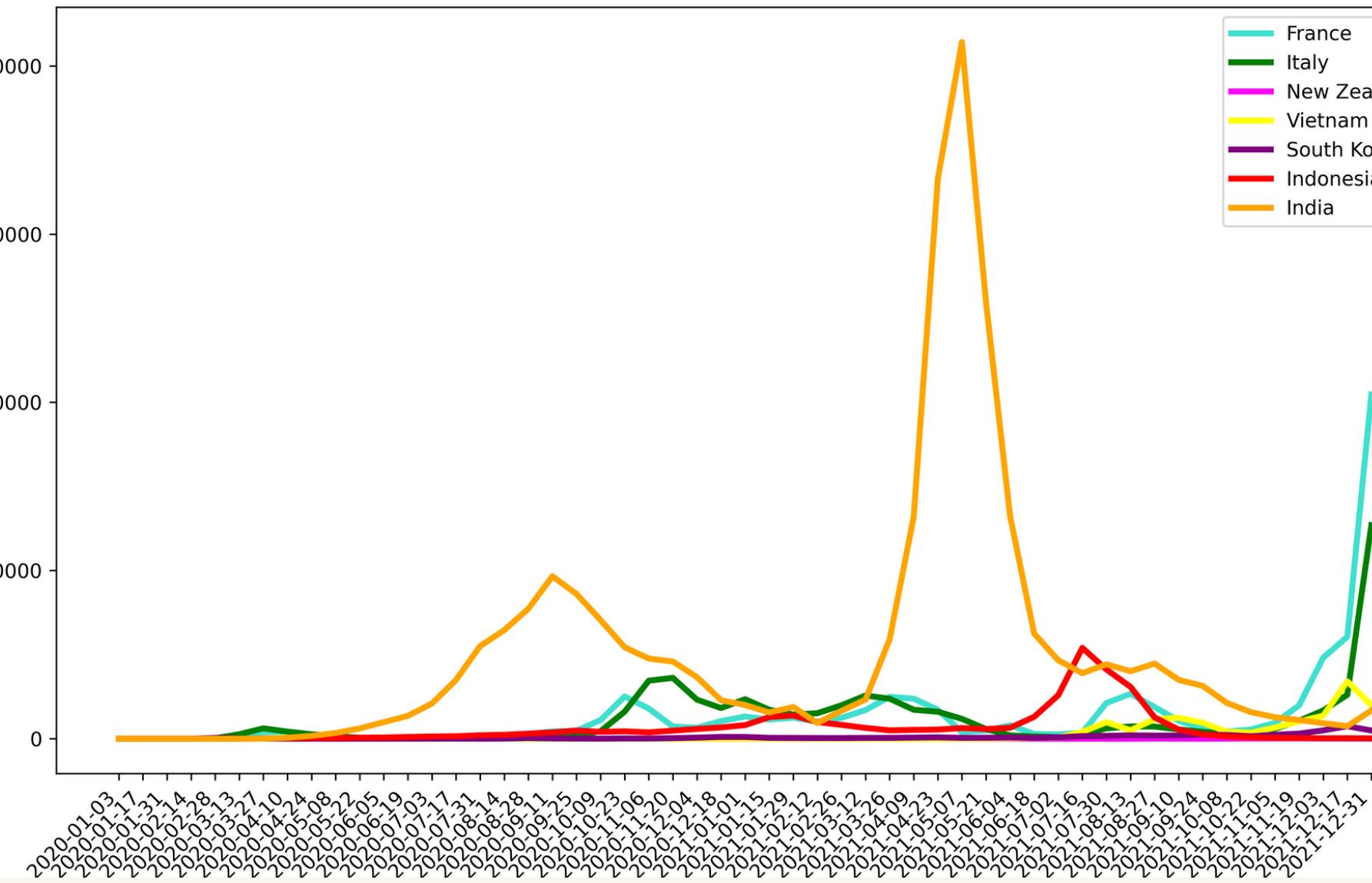
- Strong border policies
- 4 level alert system (21-03-2020)
- 2 national strict lockdowns
- 25-03-2020 → 27-04-2020
- 17-08-2021 → 06-09-2020
- Protection framework (03-12-2021)



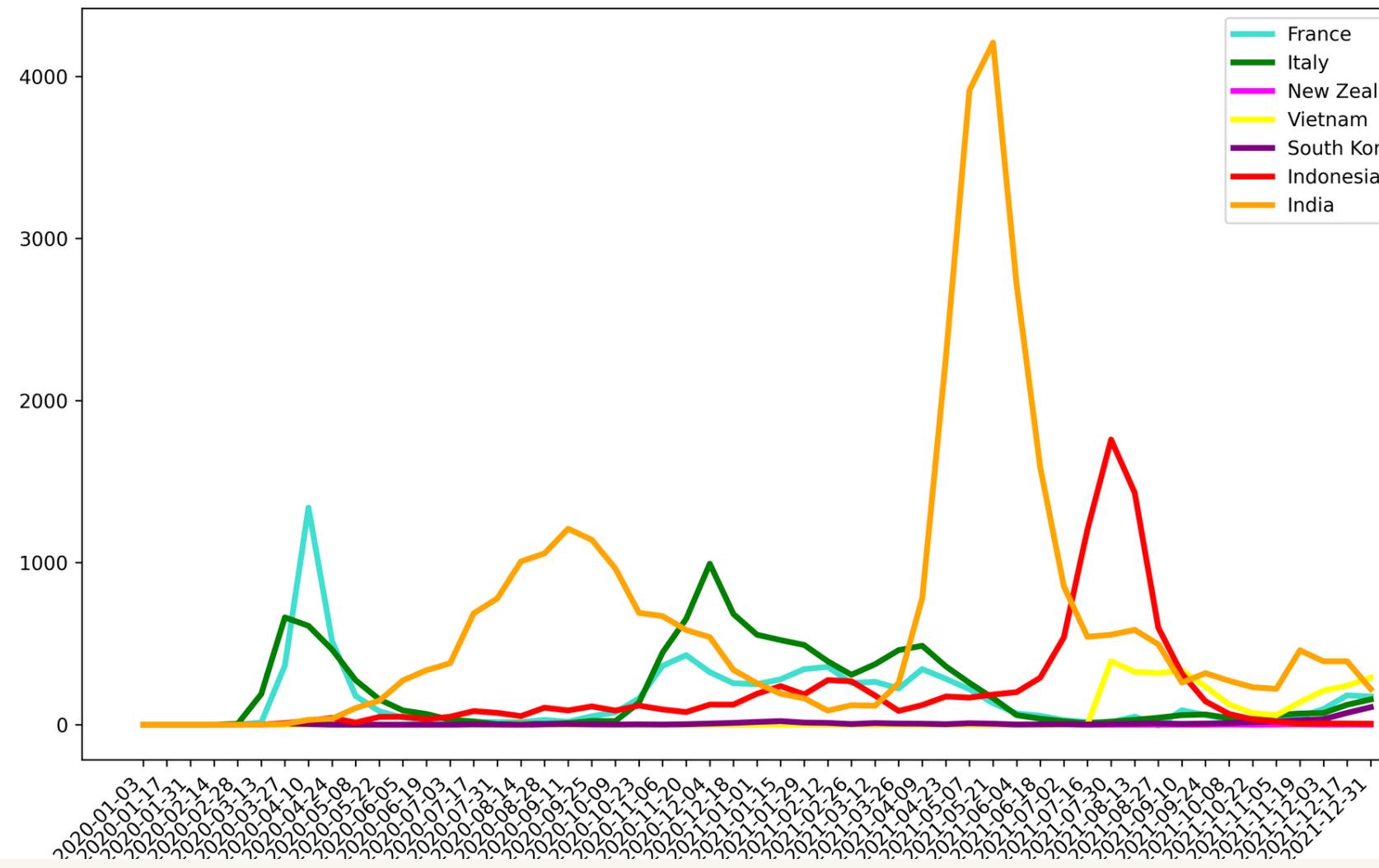
Analysis



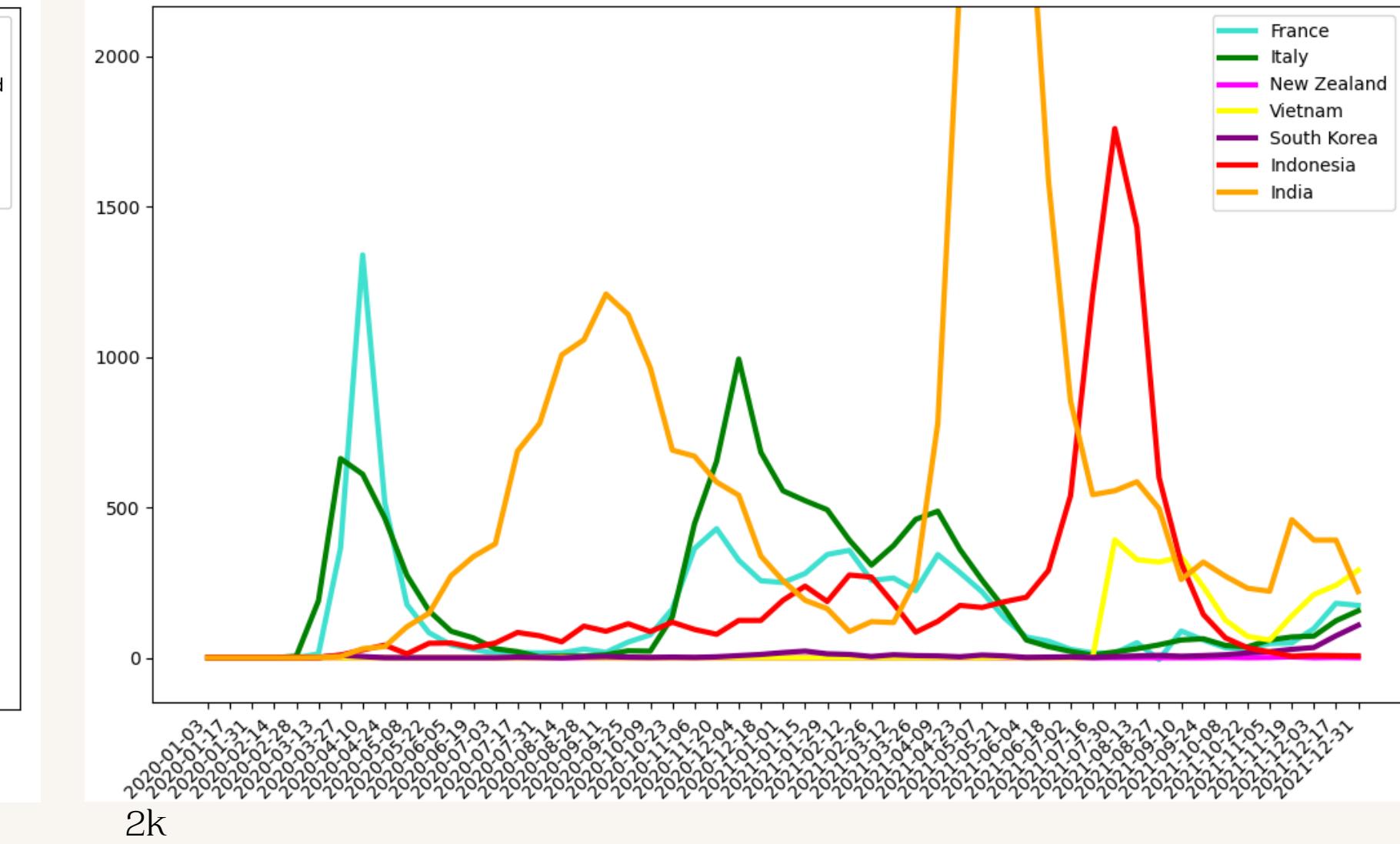
Evolution of Covid-19 new cases in 7 countries



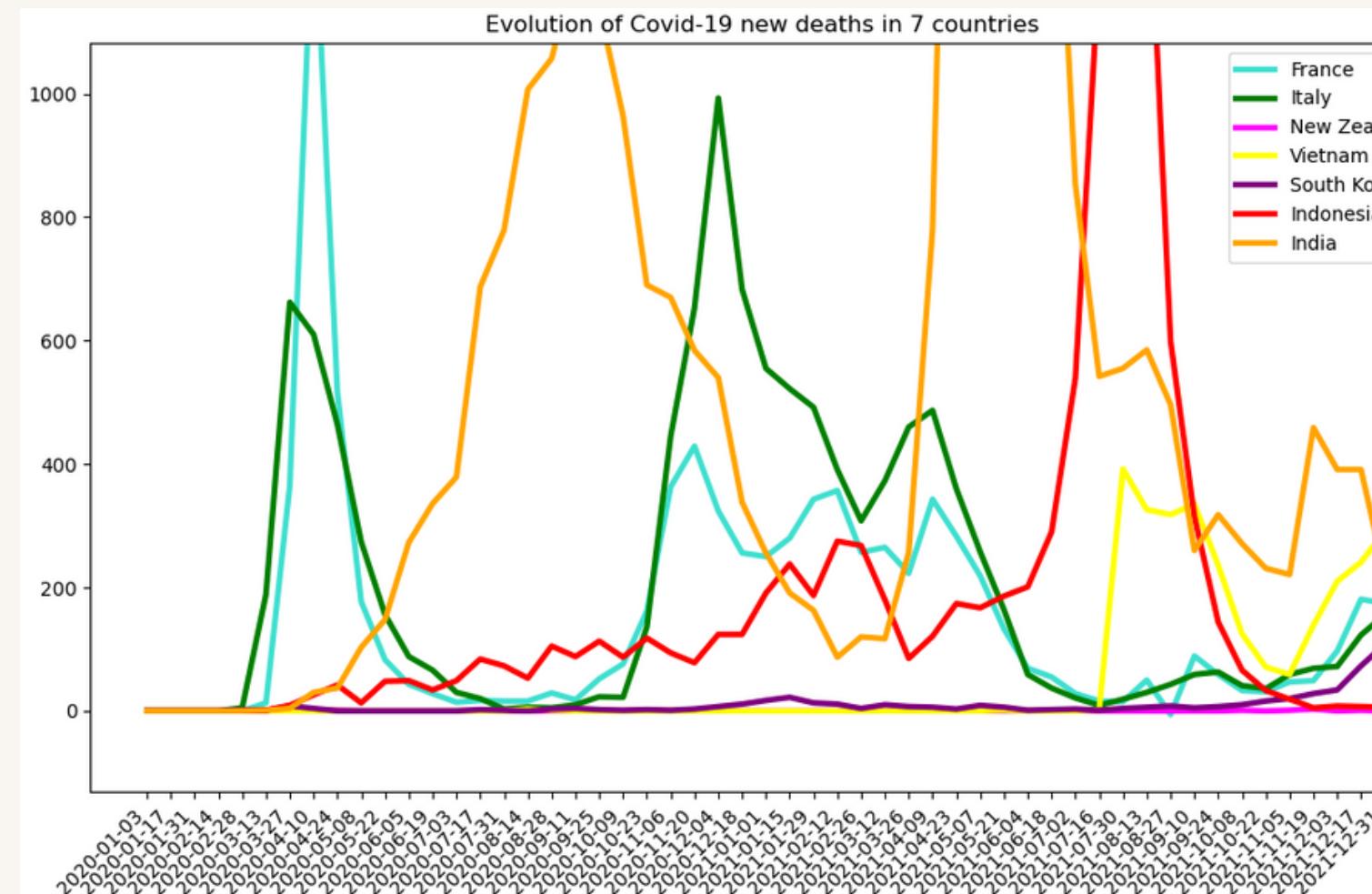
Evolution of Covid-19 new deaths in 7 countries



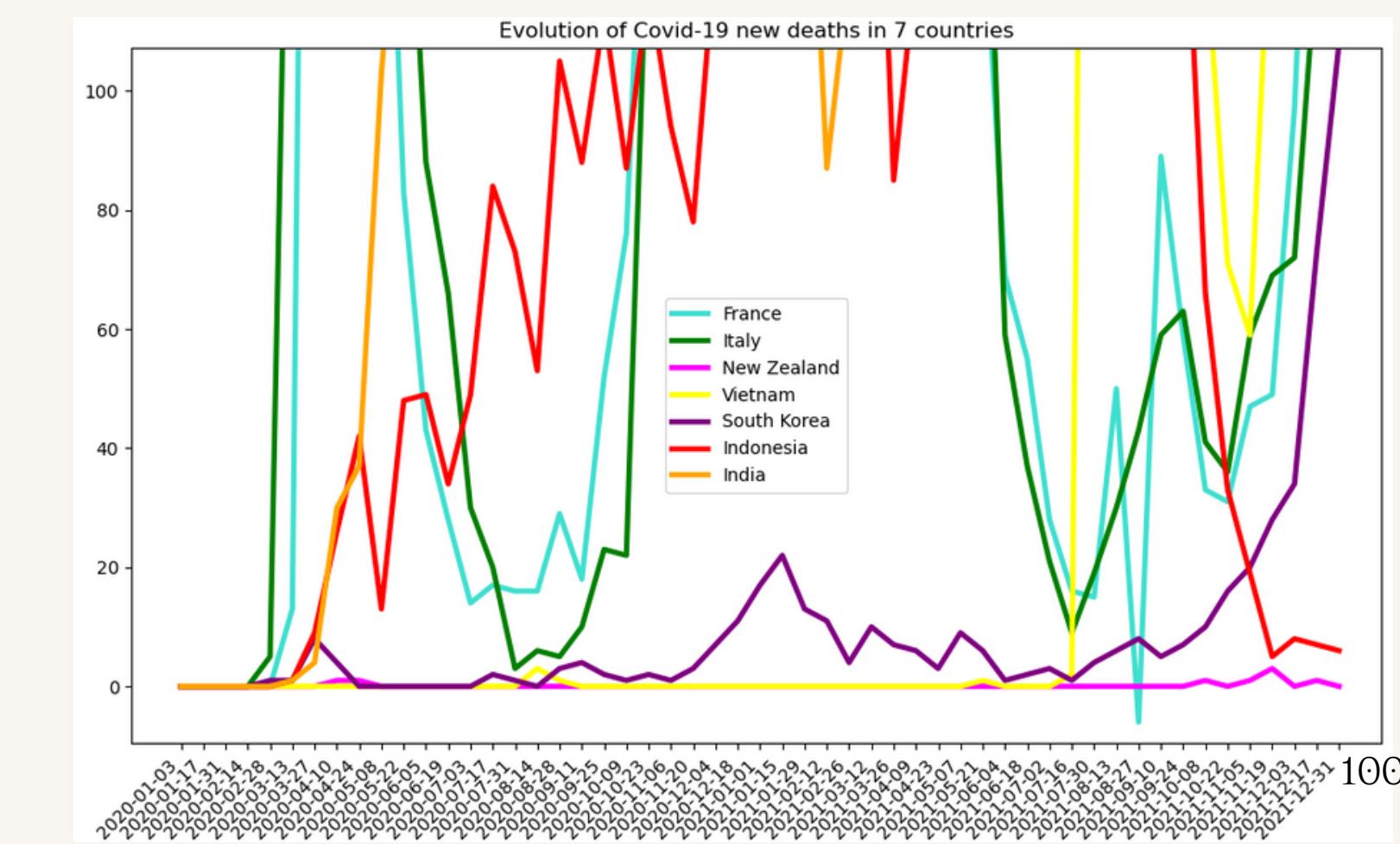
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Evolution of Covid-19 new deaths in 7 countries



Evolution of Covid-19 new deaths in 7 countries



Critical Review

Conclusion

Special Thank You!

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