

# Supplementary Materials

## Modeling of the Long-Term Epidemic Dynamics of COVID-19 in the United States

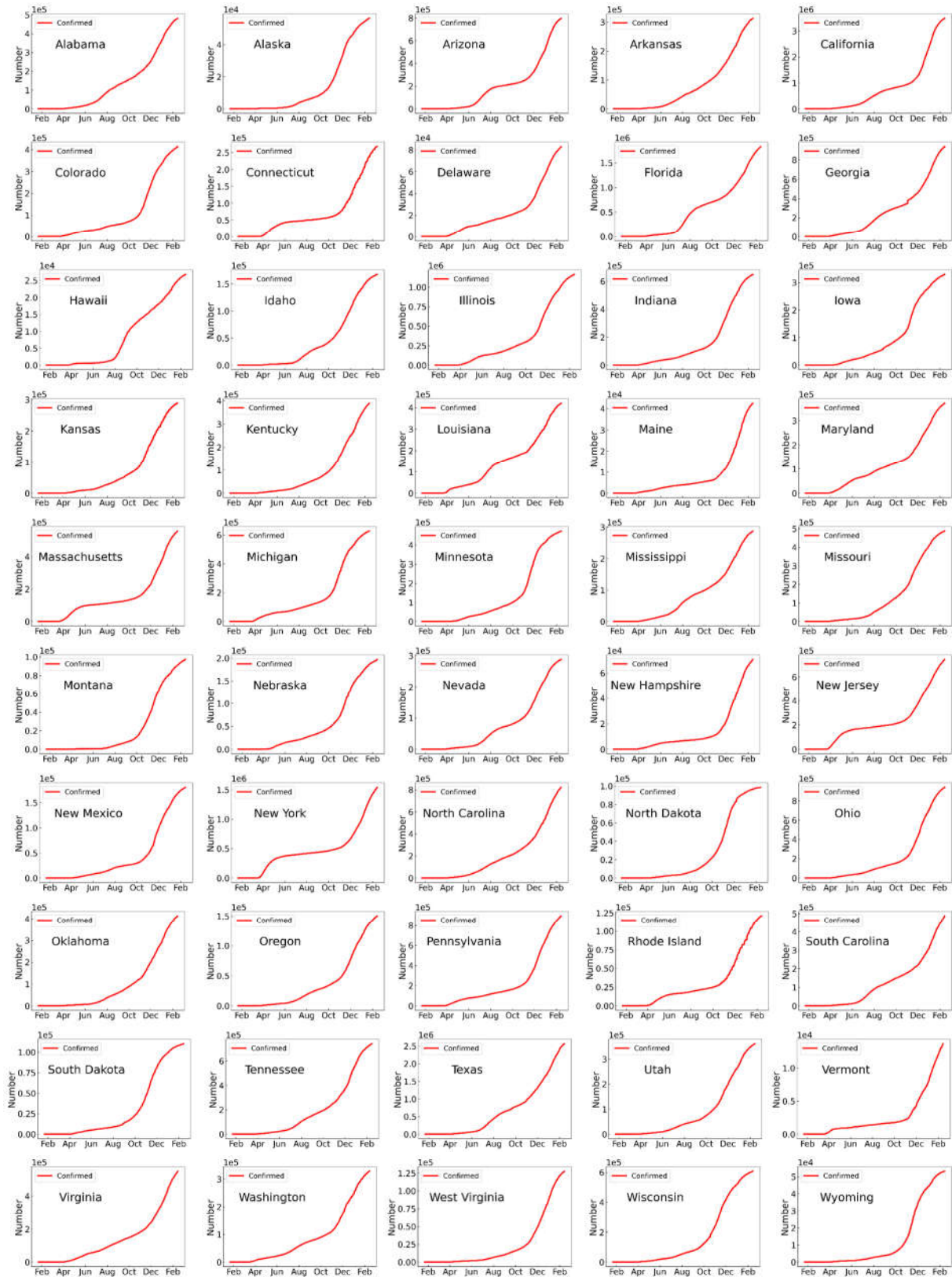
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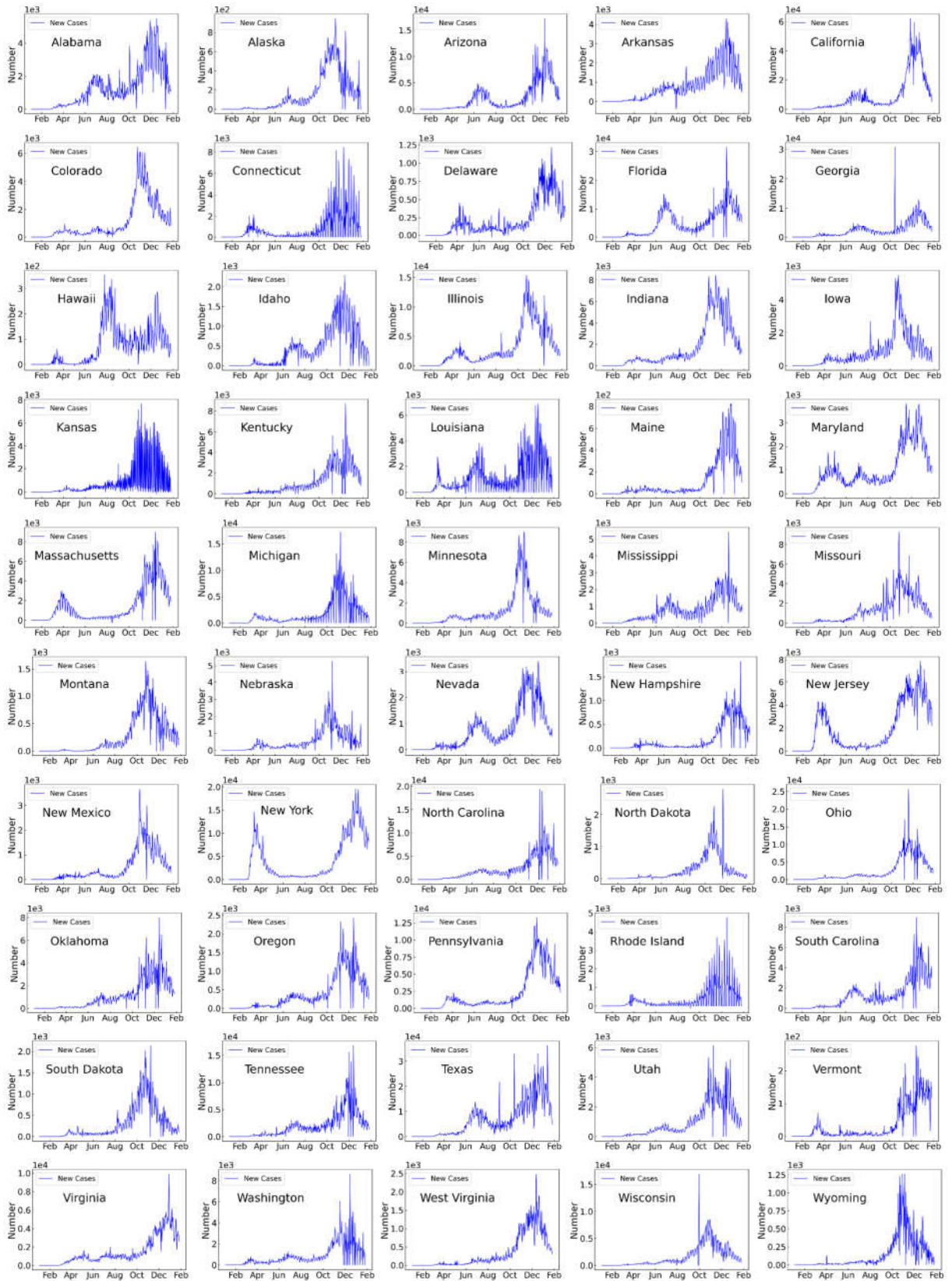
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**Figure S1**



**Figure S1:** The daily confirmed cases of COVID-19 from Jan. 22<sup>nd</sup>, 2020 to Feb 14<sup>th</sup>, 2021 for the 50 states in the US.

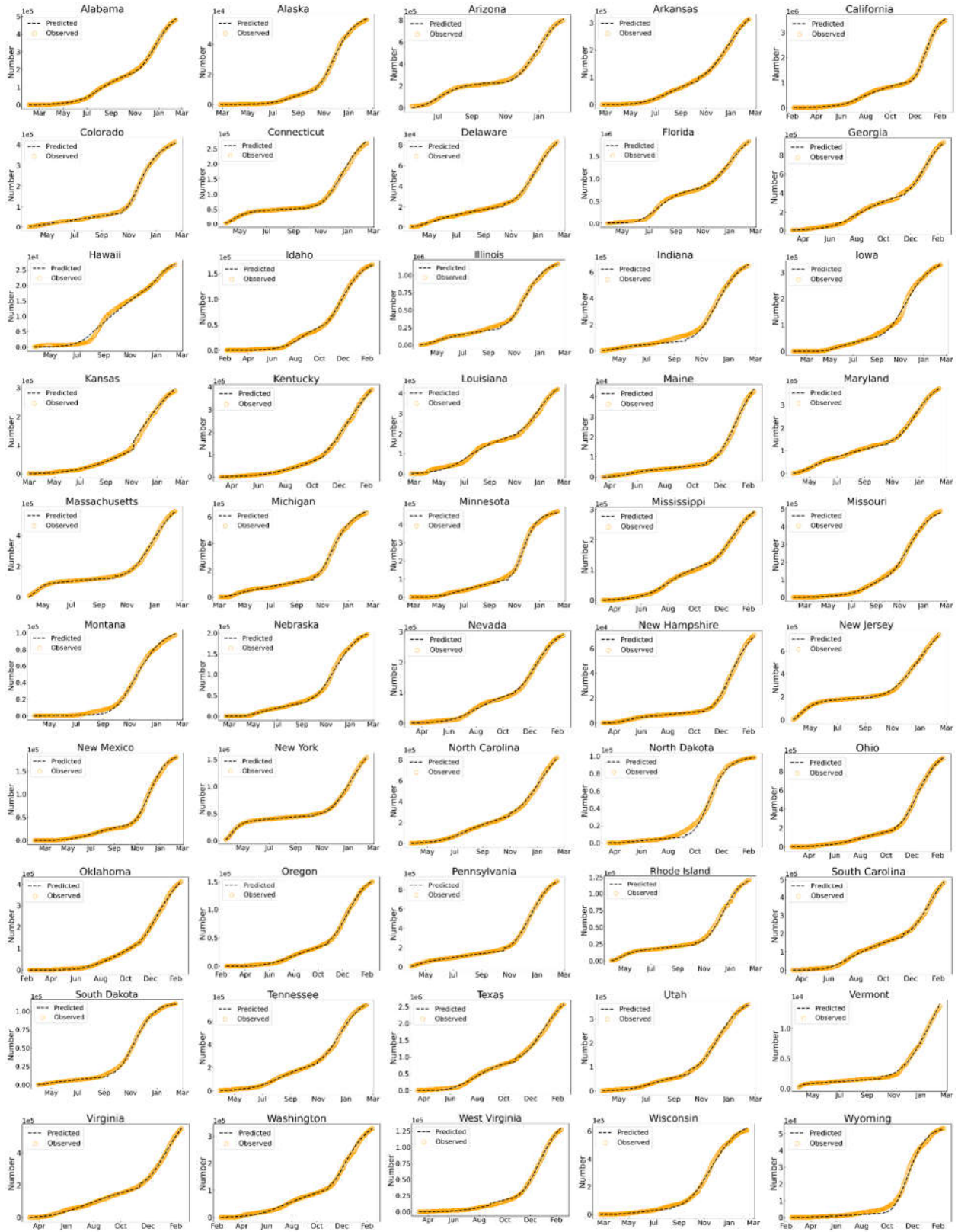
**Figure S2**



**Figure S2:** The daily new cases of COVID-19 from Jan. 22<sup>nd</sup>, 2020 to Feb 14<sup>th</sup>, 2021 for the 50 states in the US, where the data were calculated from the confirmed data.

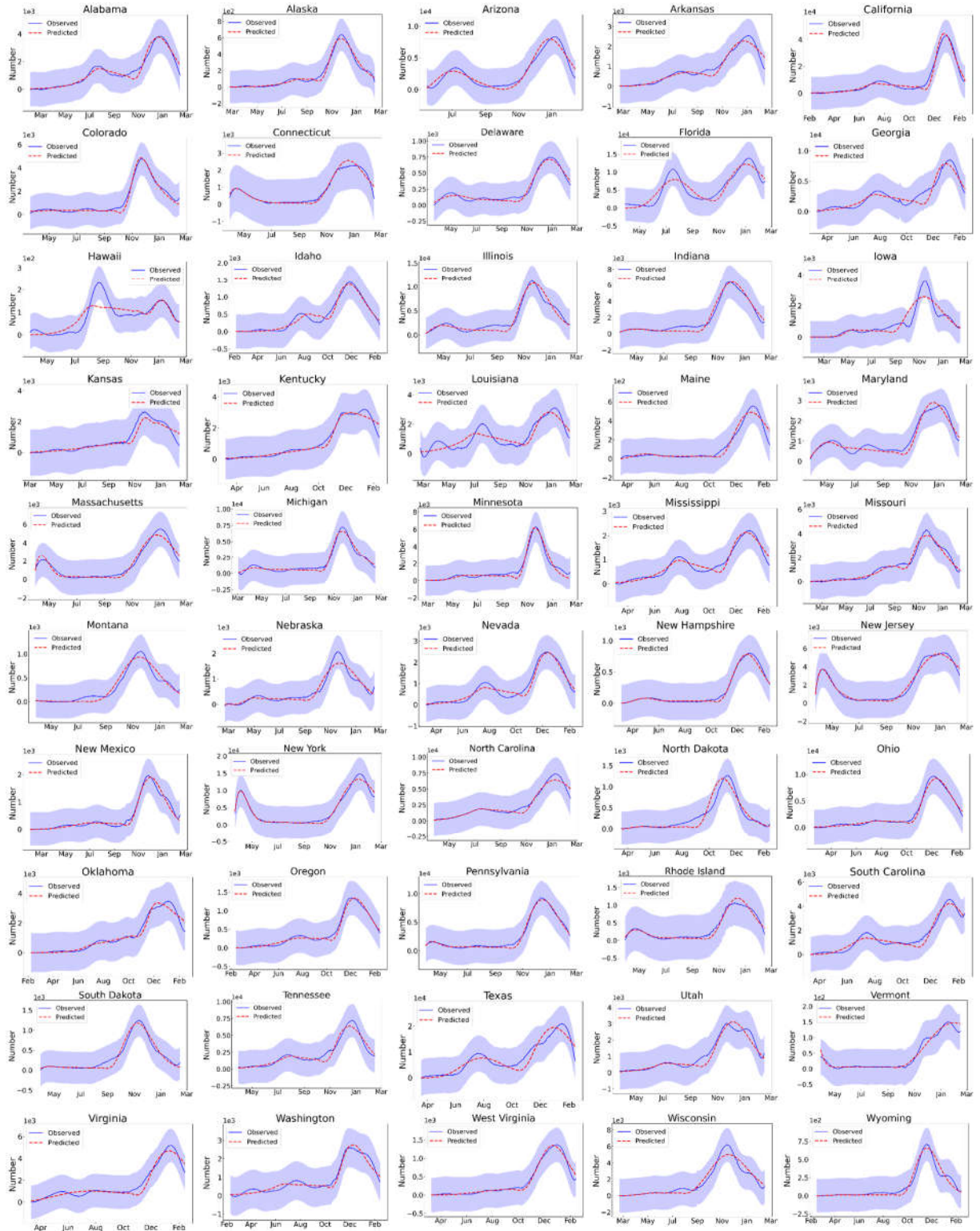


**Figure S3**



**Figure S3:** The fitting of our T-SIR model to the daily confirmed cases of COVID-19 for the 50 states in the US, where the dashed lines indicate the predicted data of T-SIR model.

**Figure S4**



**Figure S4:** The fitting of our T-SIR model to the daily new cases of COVID-19 for the 50 states in the US, where the dashed lines indicate the predicted data of T-SIR model. Data were smoothed using a Savitzky–Golay filter for the daily new cases, where the light-blue shade indicates the standard deviations of reported data.