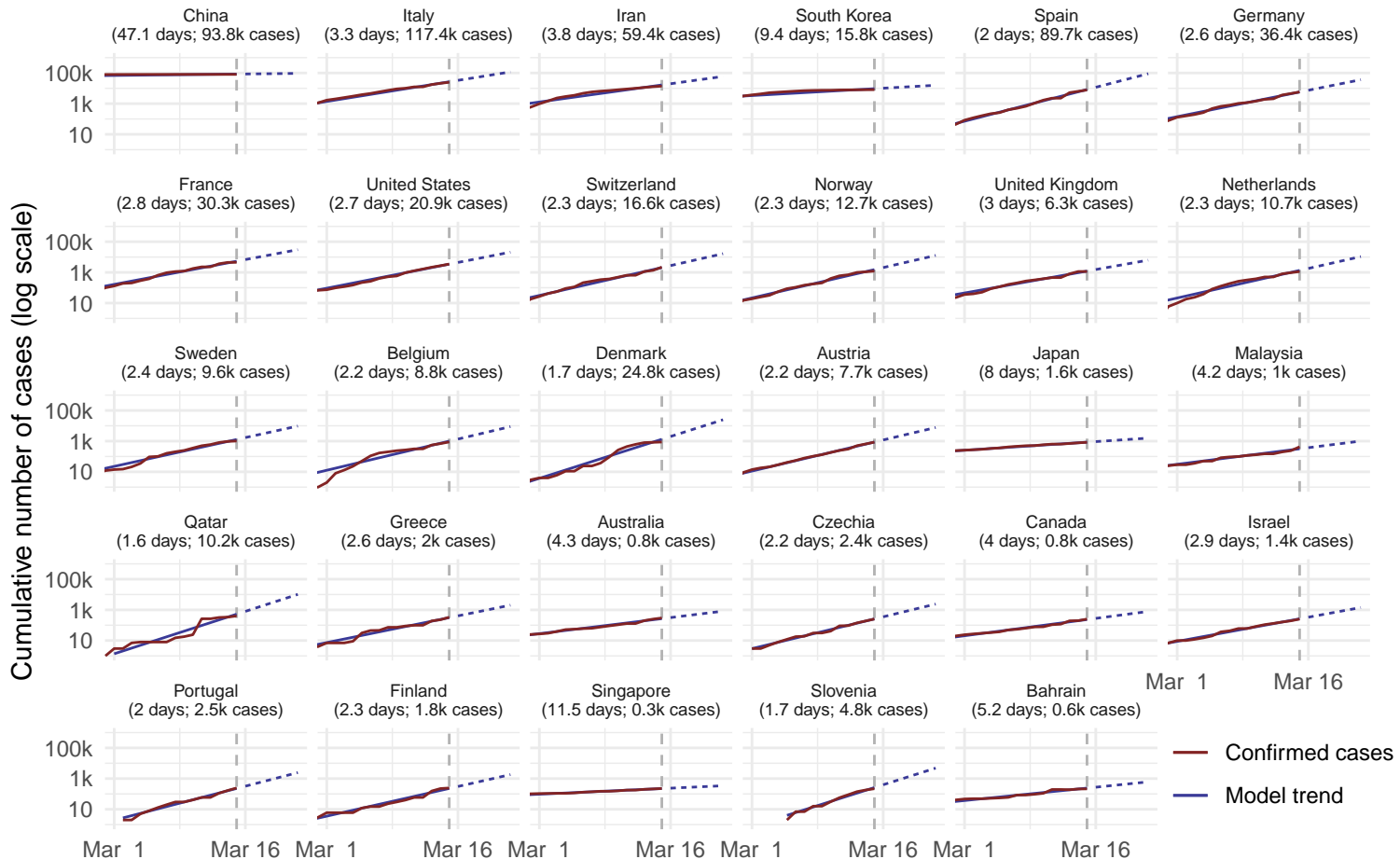


# Confirmed COVID-19 Cases as of March 15

Estimated doubling time and projected number of cases on March 22 listed in parentheses.



Model is a random coefficients exponential growth model that takes the form:  $\log(\# \text{ Cases}) = a + b \times \text{Days Since First Case}$ , where  $a$  and  $b$  vary by country. Doubling time is given by  $\log(2)/b$ . Observations from  $k$  days ago are given weight  $d^k$  with  $d = 0.77$  chosen to minimize the 7-day-ahead forecast error. Data source: [GitHub.com/CSSEGISandData/COVID-19](https://github.com/CSSEGISandData/COVID-19). Graphic by Will Marble (@wpmarble).