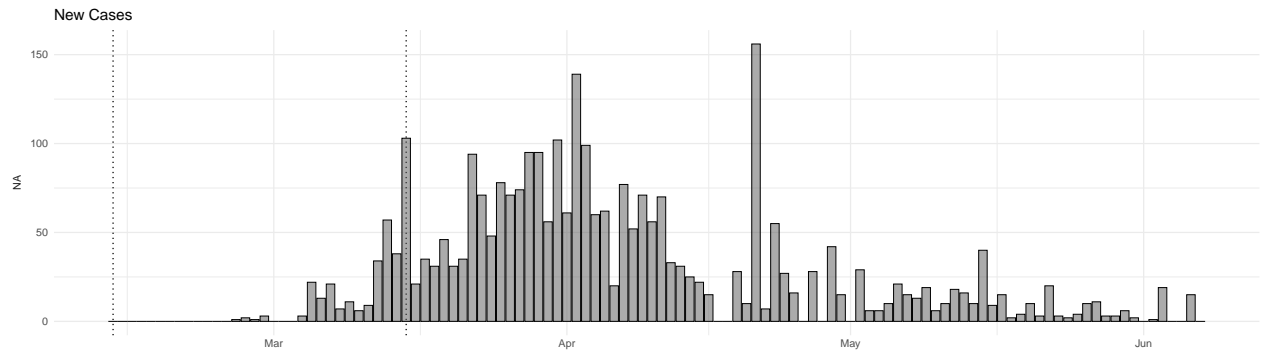
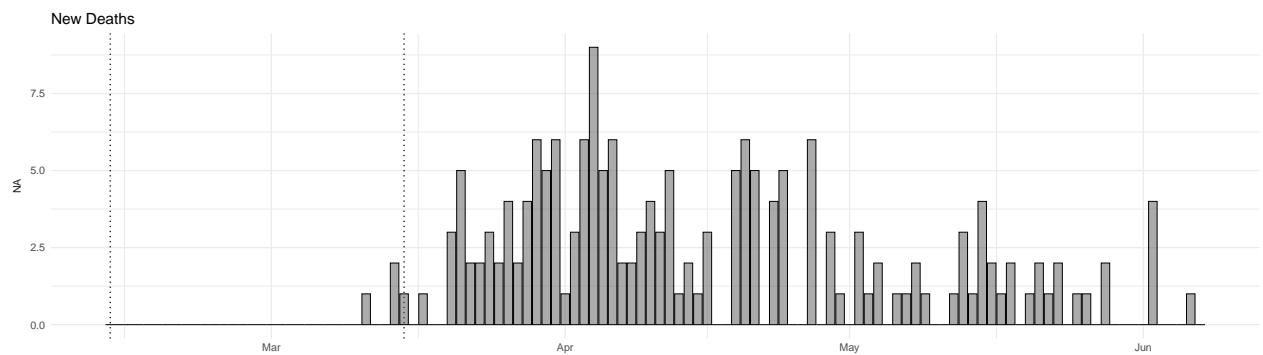


Greece

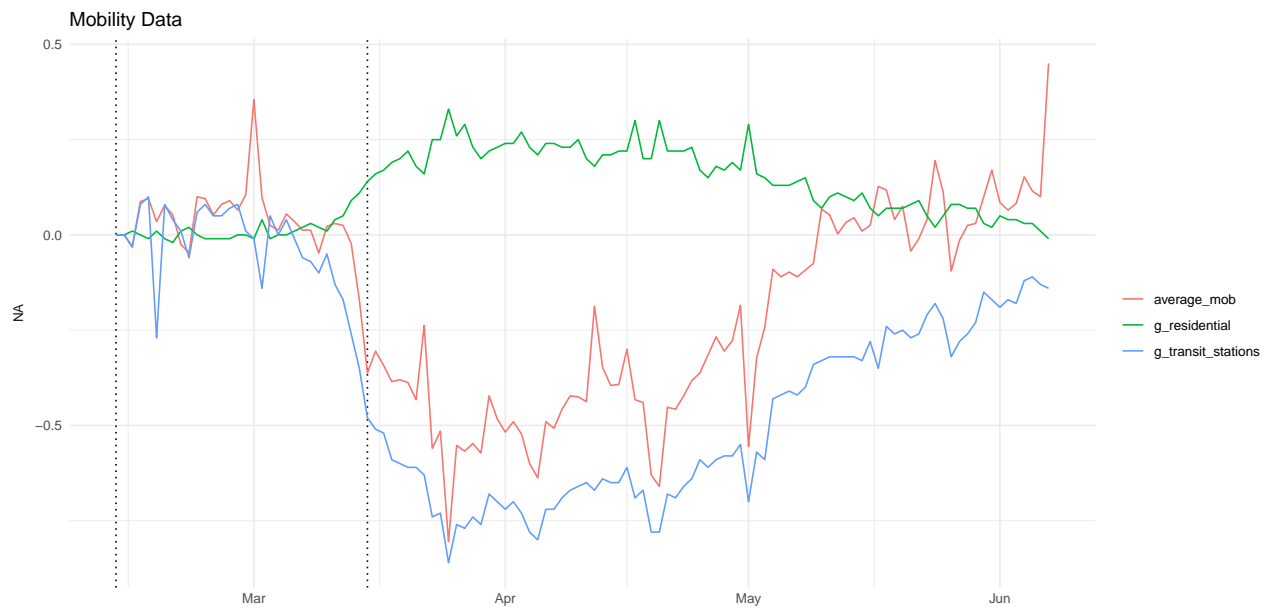
Data



Vertical dotted lines represent the first seeding day and the epidemic start date.



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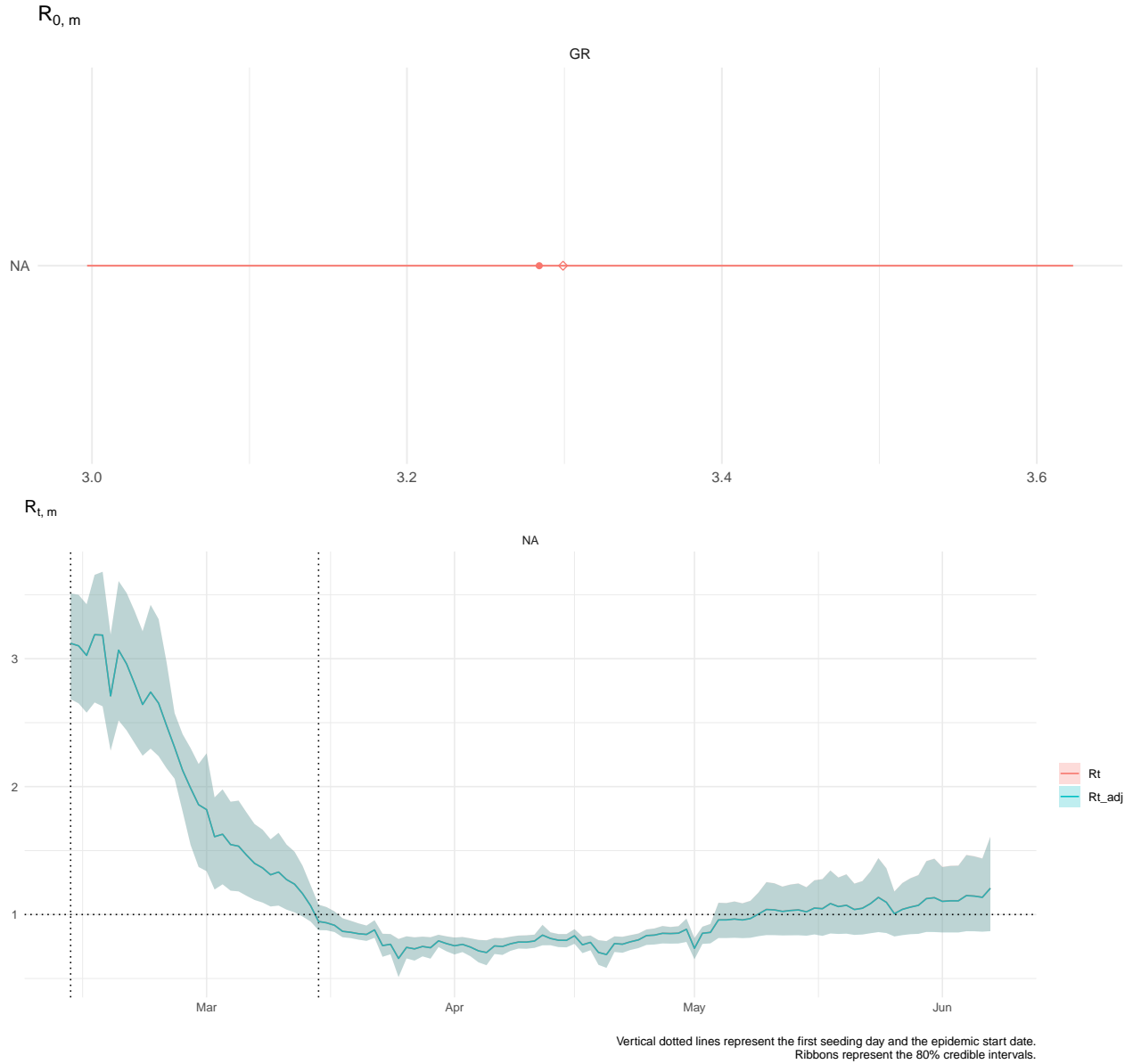
Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.004579$

Minimum Bulk ESS = 1543.547

Minimum Tail ESS = 1260.387



Contact rate function:

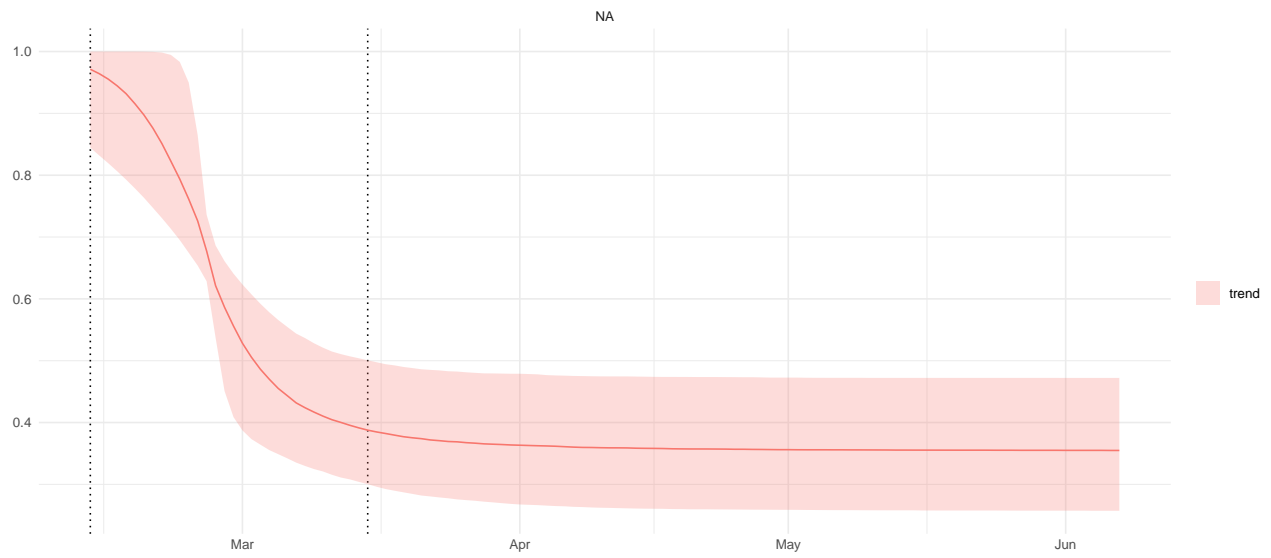
$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

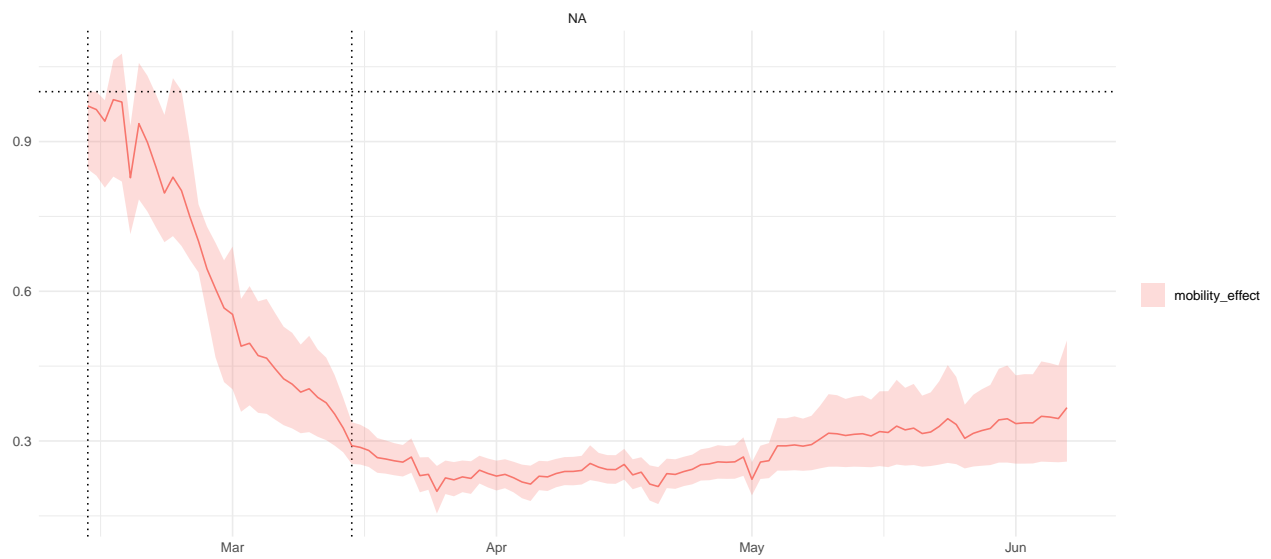
$$\lambda_j \sim \text{Beta}(3, 1)$$

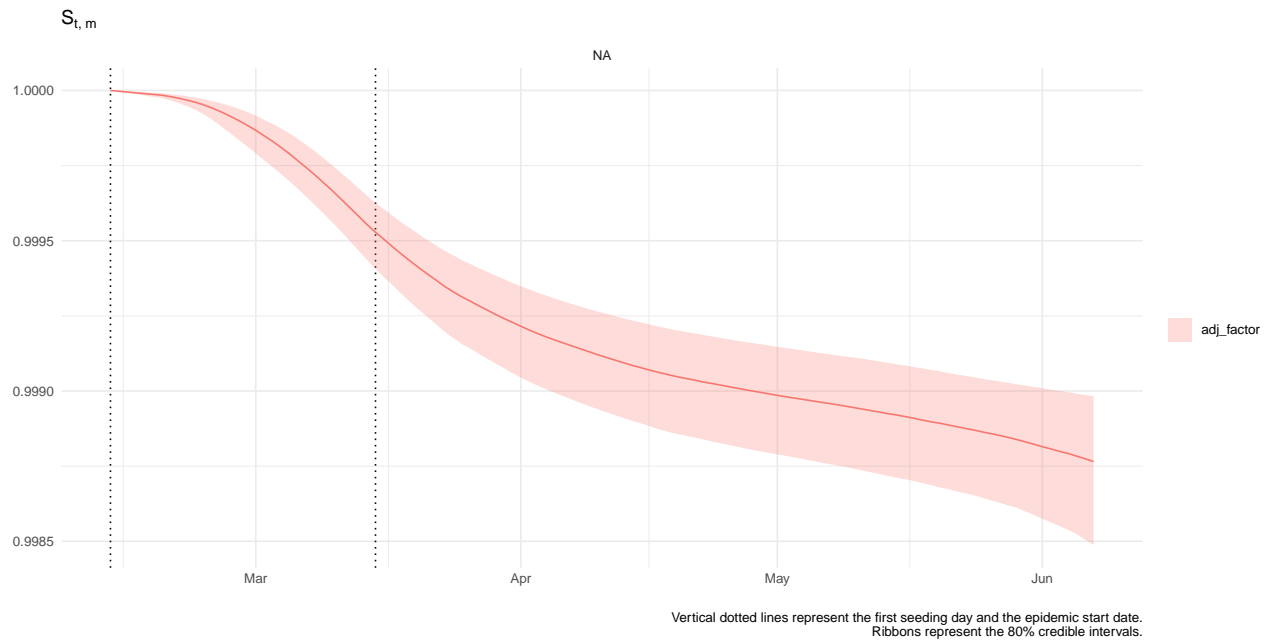
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$

Contact Rate



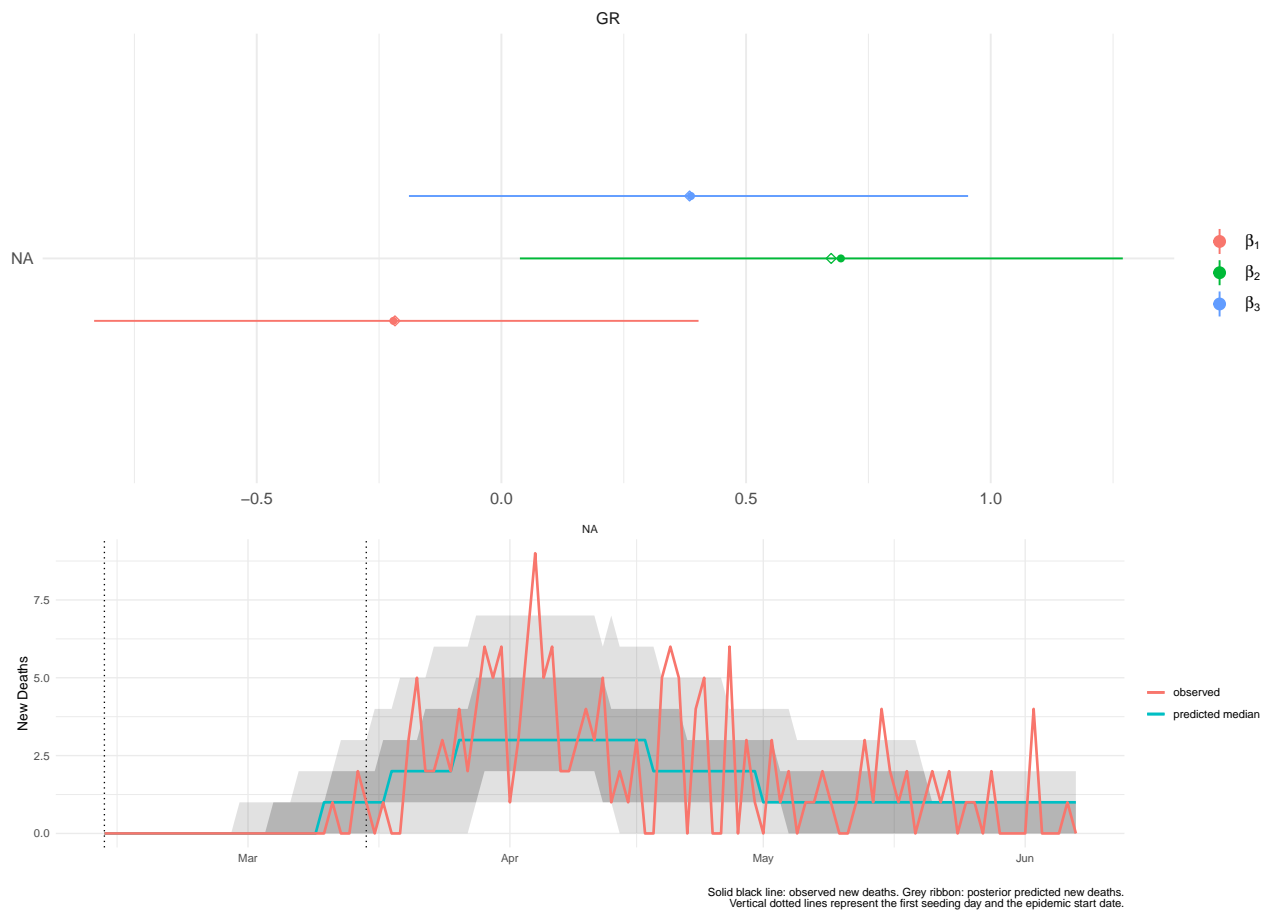
Mobility effect



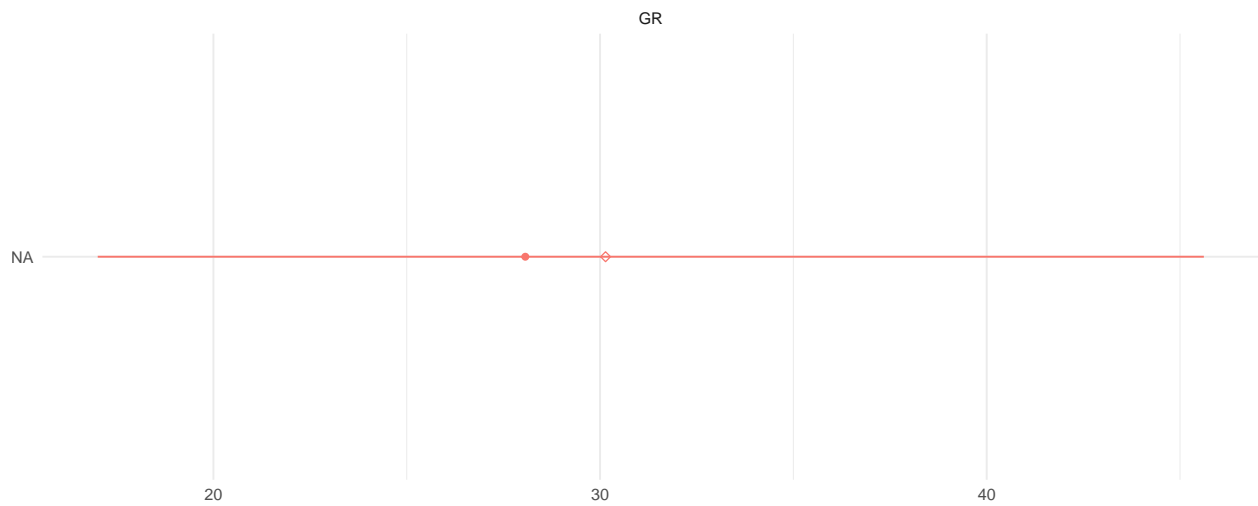


Mobility linear model: $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$.

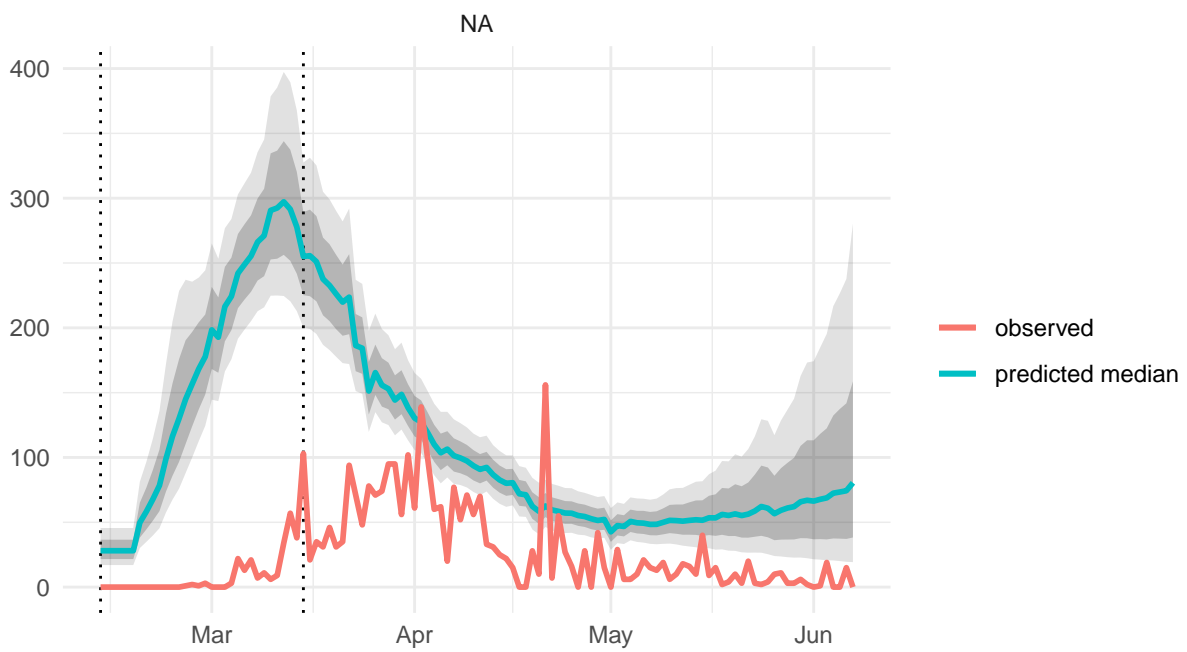
β



Imputed Cases



New Cases predicted vs observed



Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths.
Vertical dotted lines represent the first seeding day and the epidemic start date.

