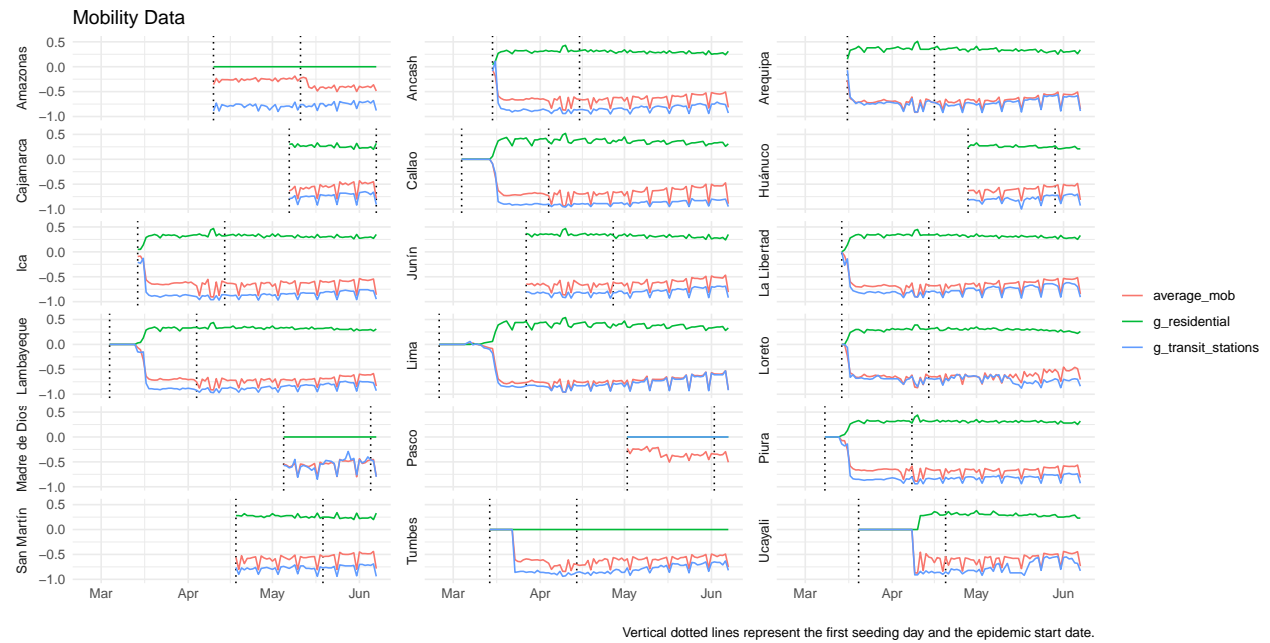
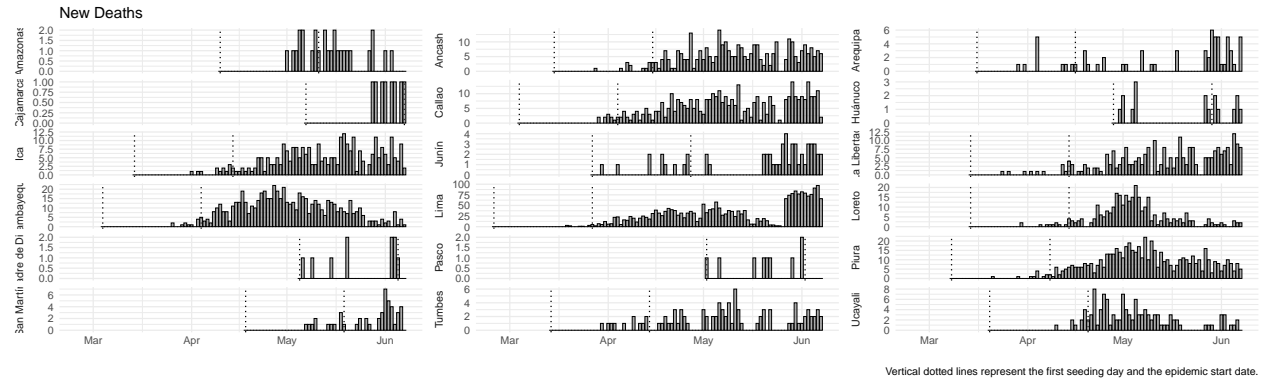


Peru

Data



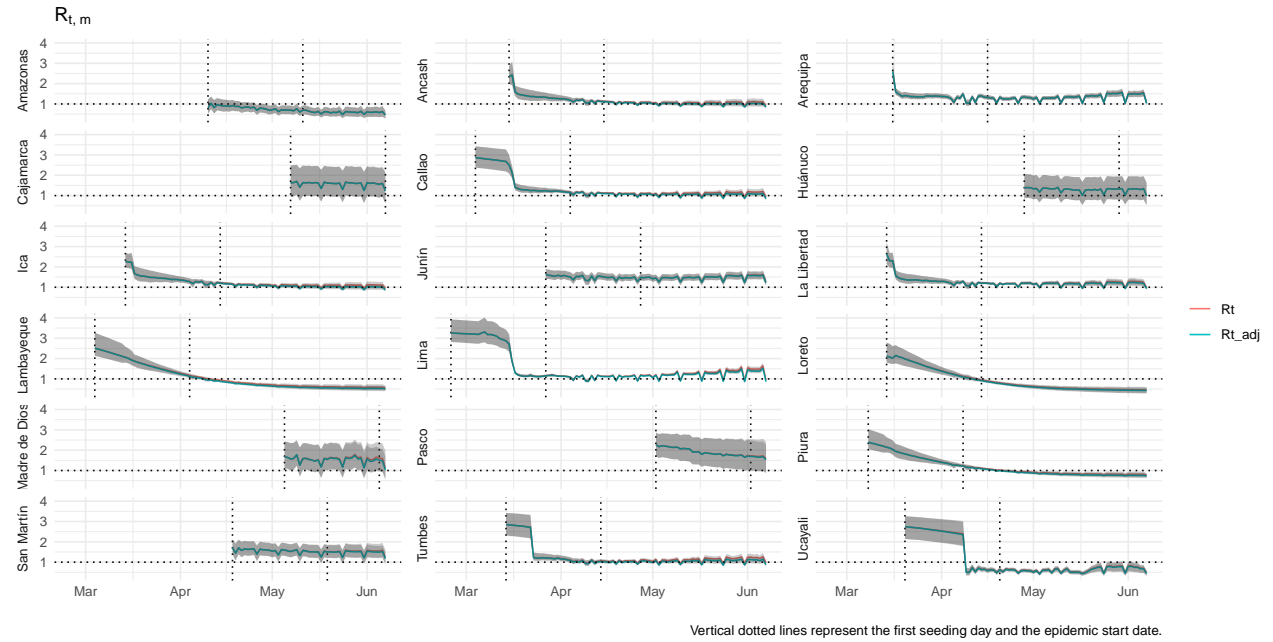
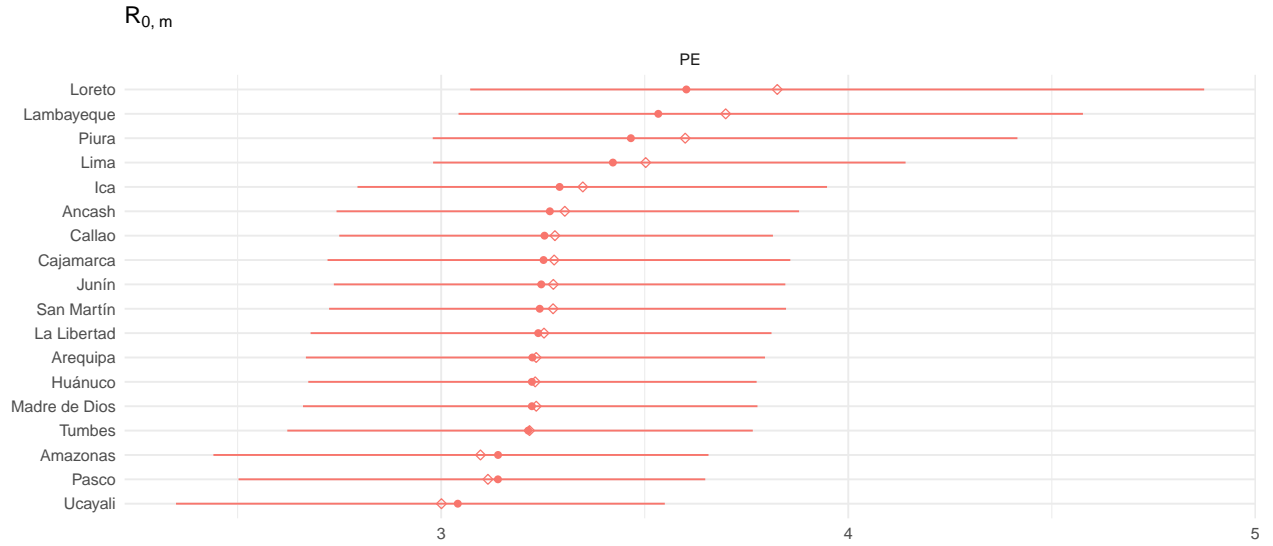
Analysis

Number of divergent transitions = 1

Maximum $\hat{R} = 1.004871$

Minimum Bulk ESS = 626.0937

Minimum Tail ESS = 330.1581



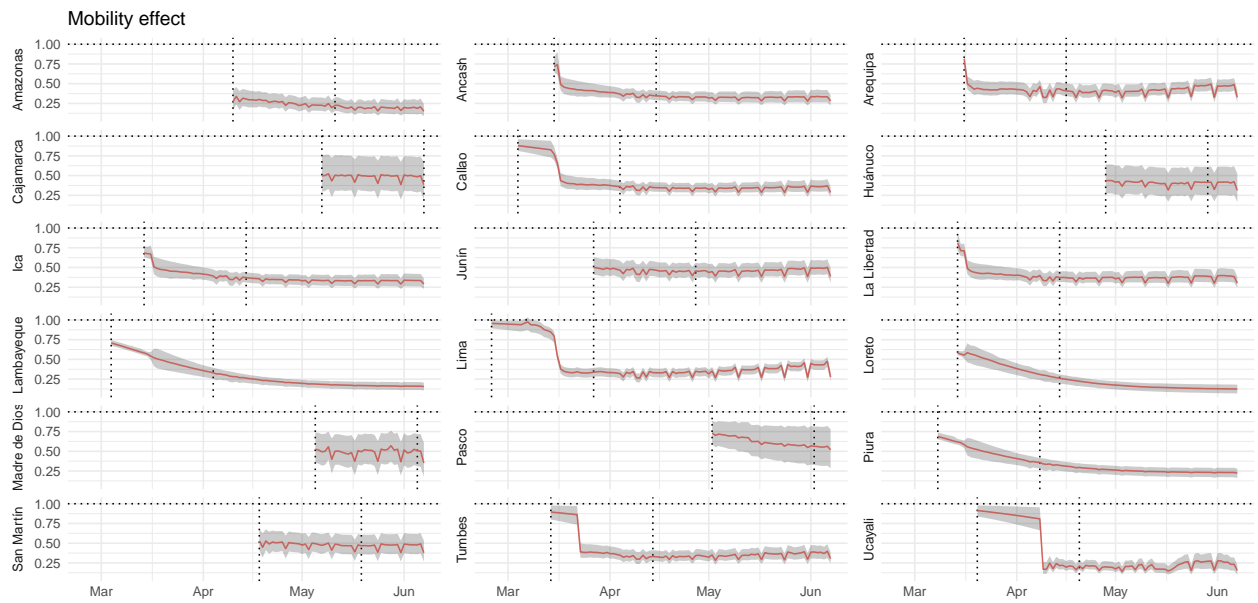
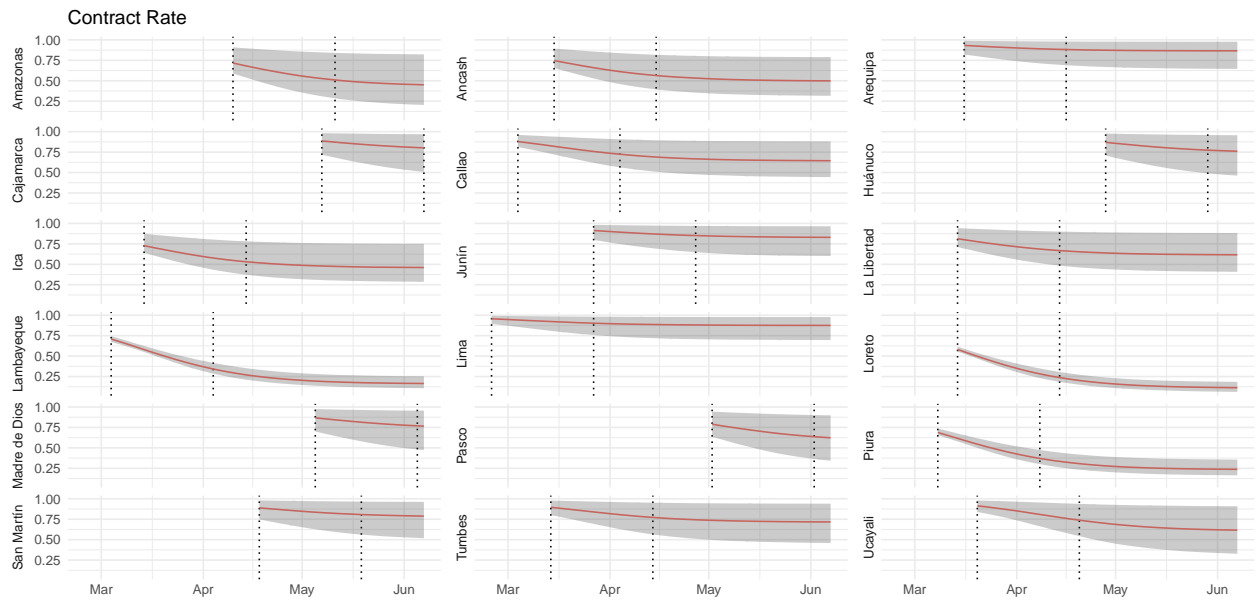
Contact rate function:

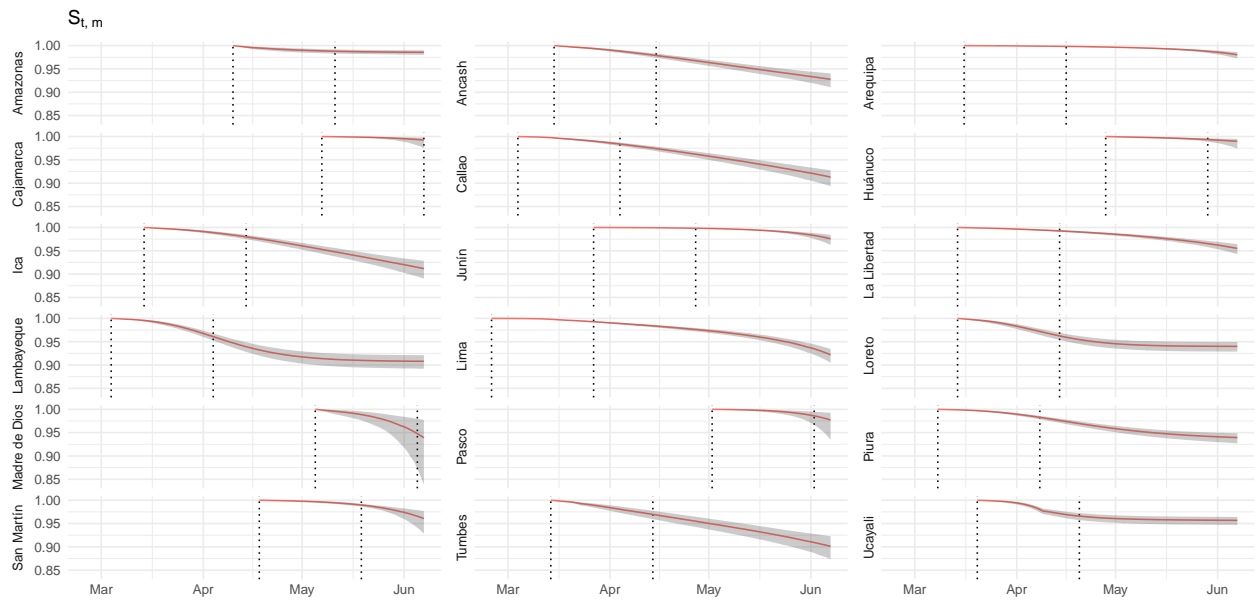
$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

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

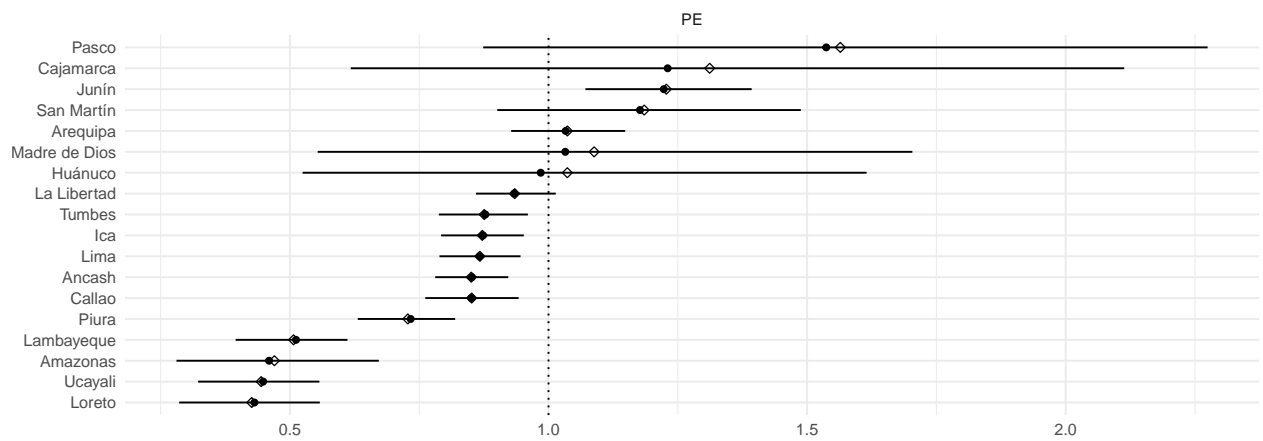
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$





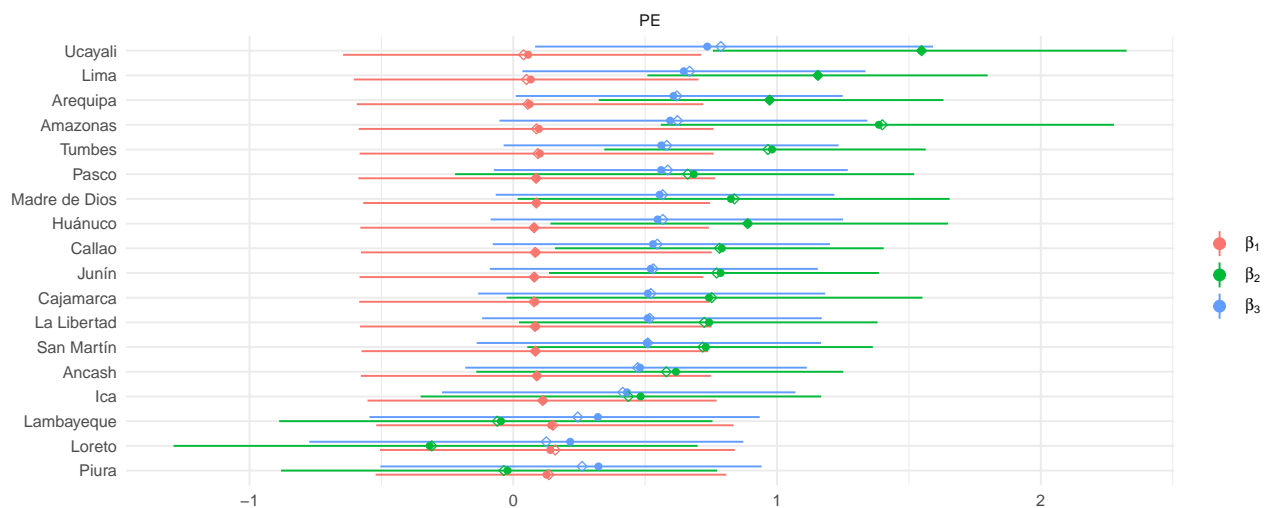
Vertical dotted lines represent the first seeding day and the epidemic start date.

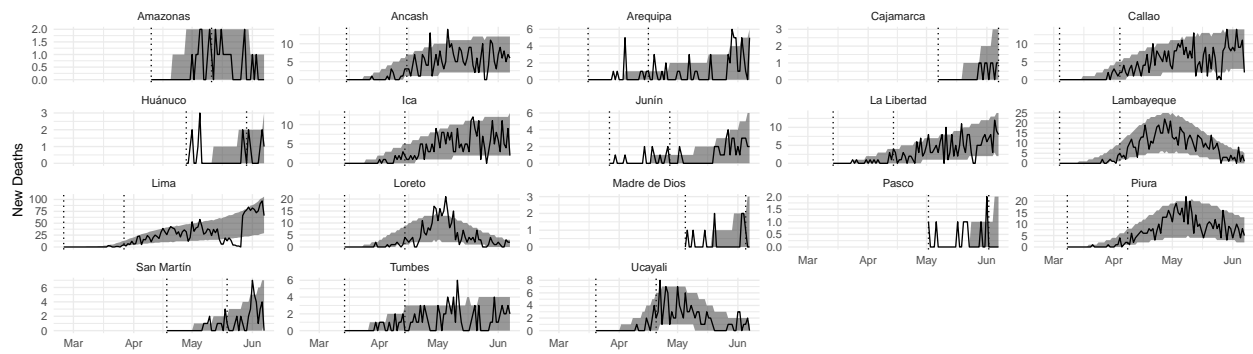
$R_{t,m}$ on the last day



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

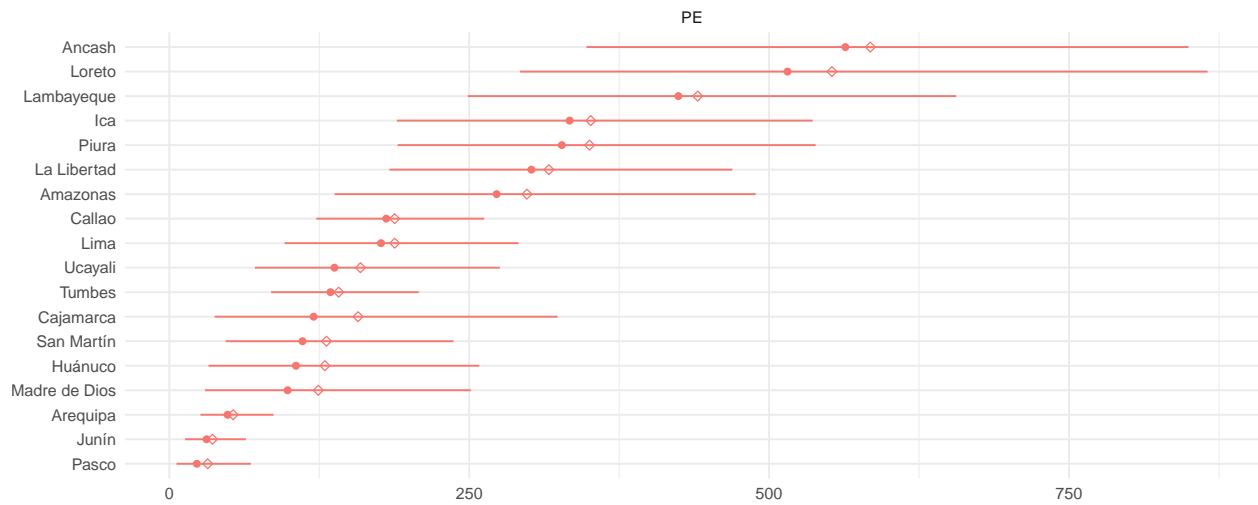
β





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.

Imputed Cases



IFR

