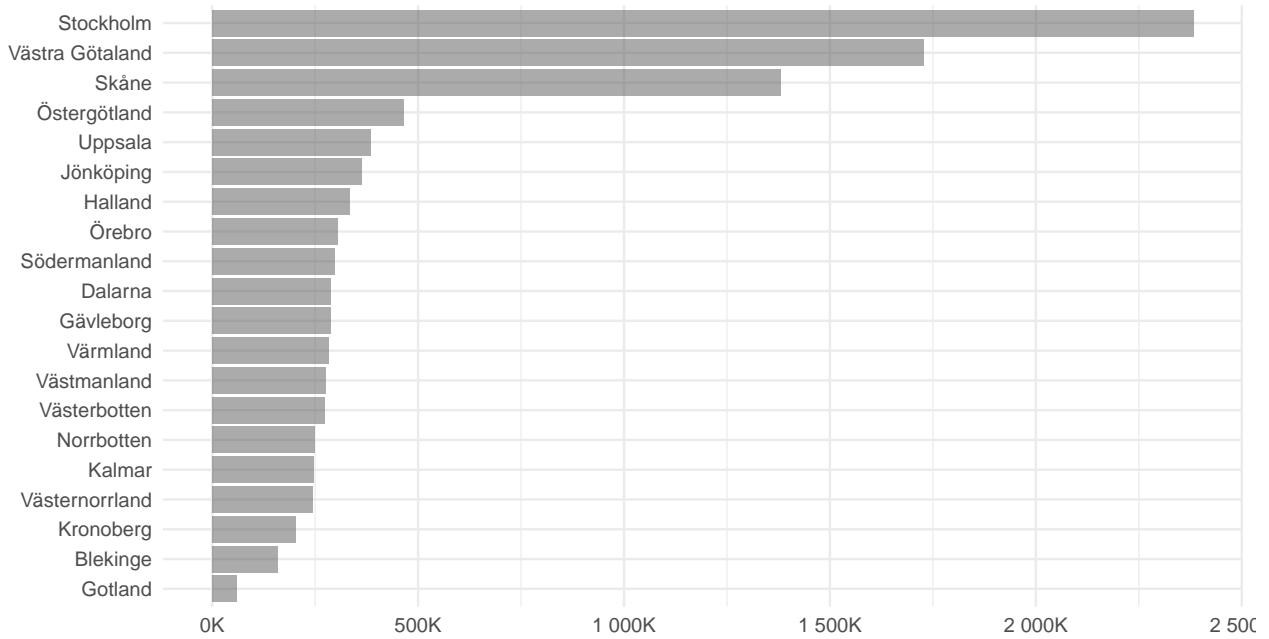


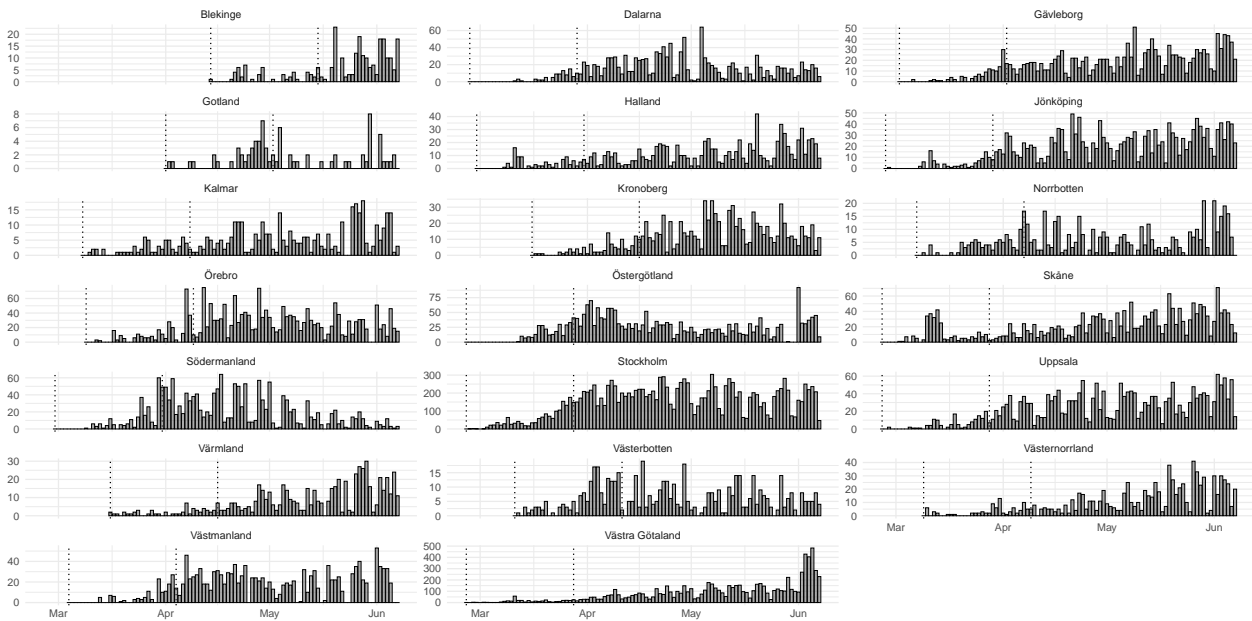
Sweden

Data

Population

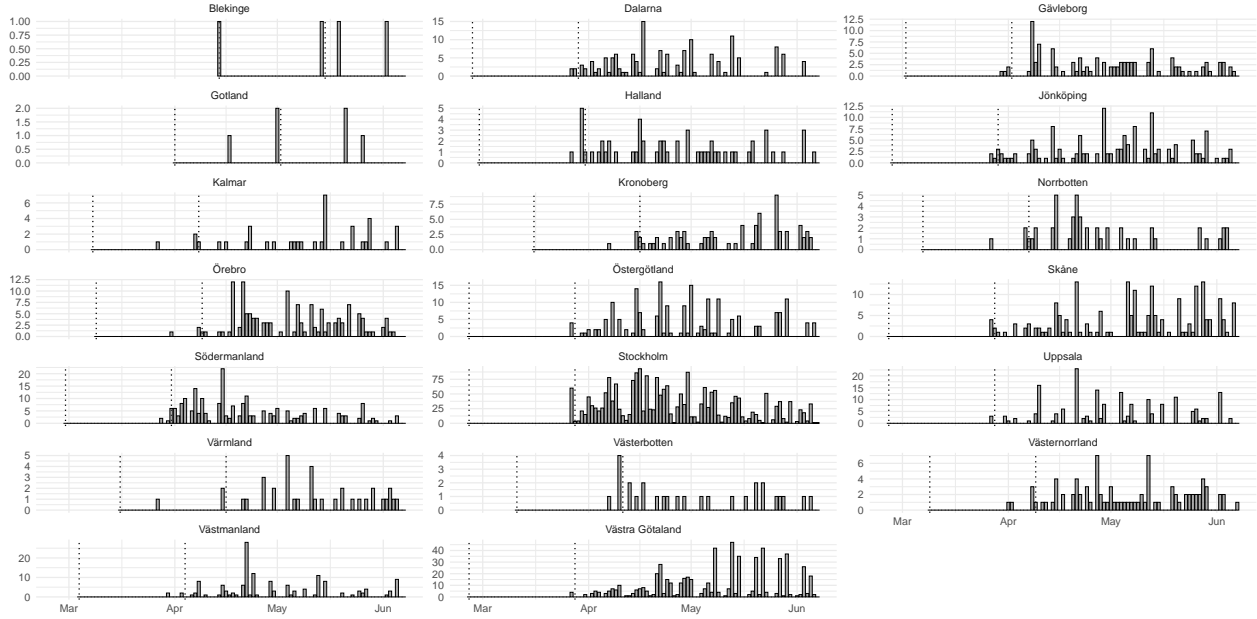


New Cases



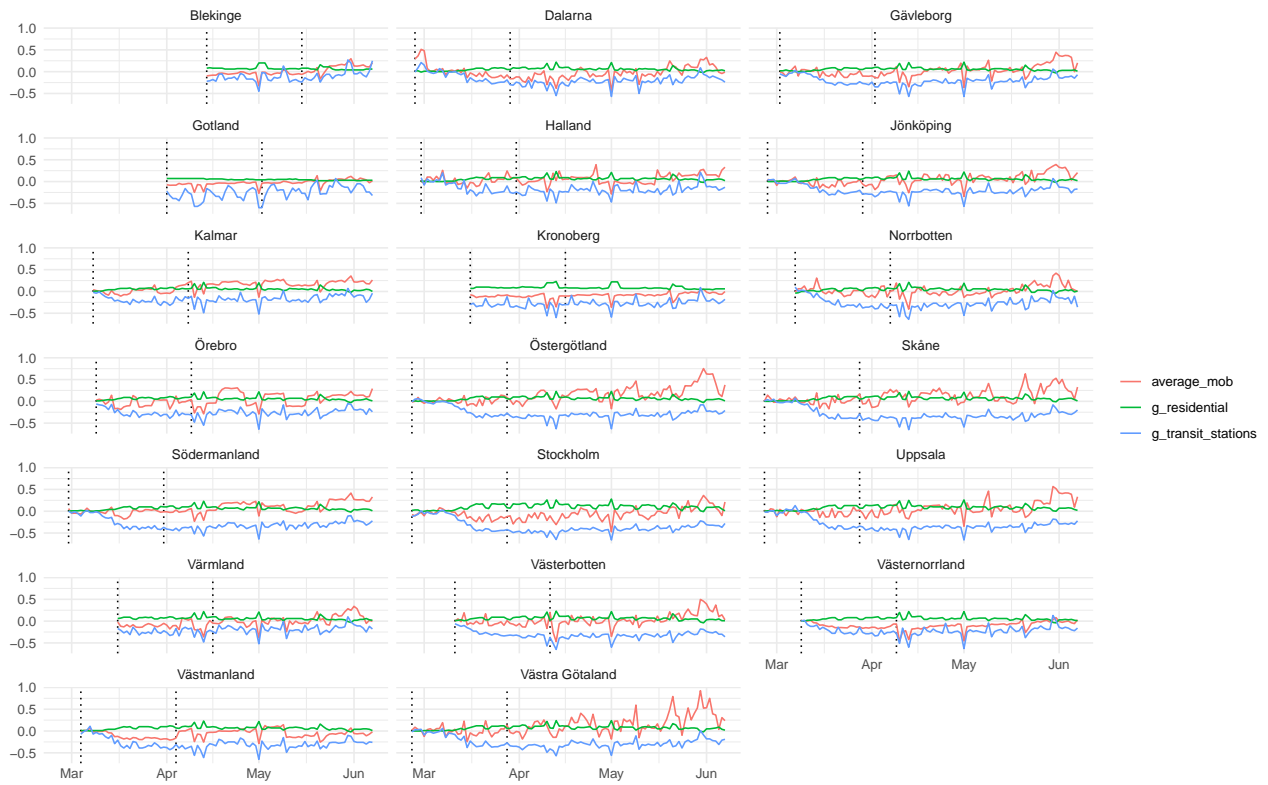
Vertical dotted lines represent the first seeding day and the epidemic start date.

New Deaths



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

Mobility Data



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

Analysis

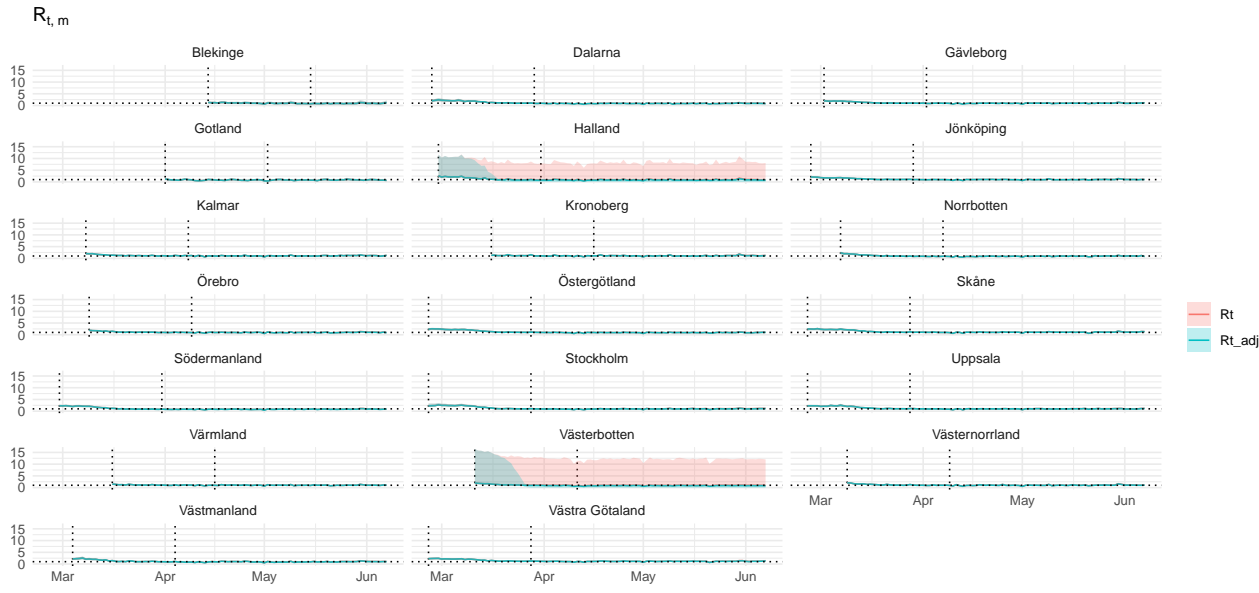
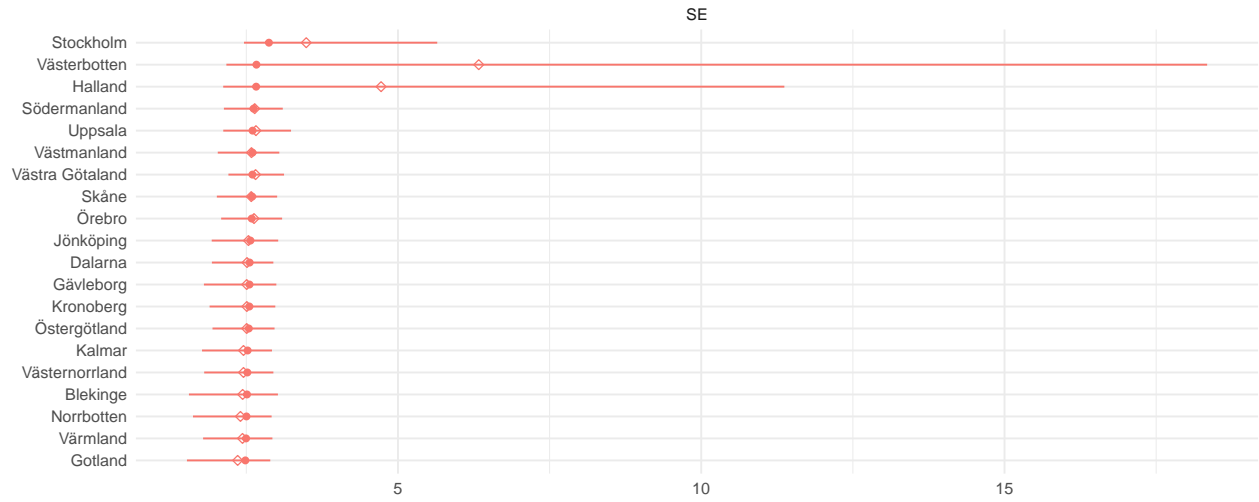
Number of divergent transitions =

Maximum \hat{R} =

Minimum Bulk ESS =

Minimum Tail ESS =

$R_{0,m}$



Vertical dotted lines represent the first seeding day and the epidemic start date. Ribbons represent the 80% credible intervals.

Contact rate function:

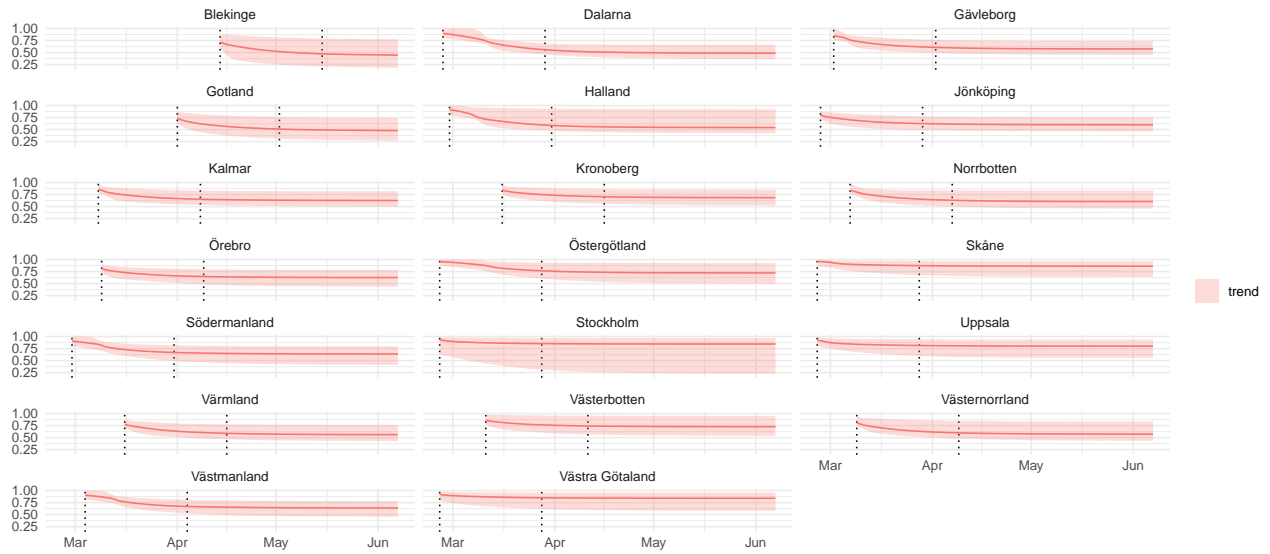
$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

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

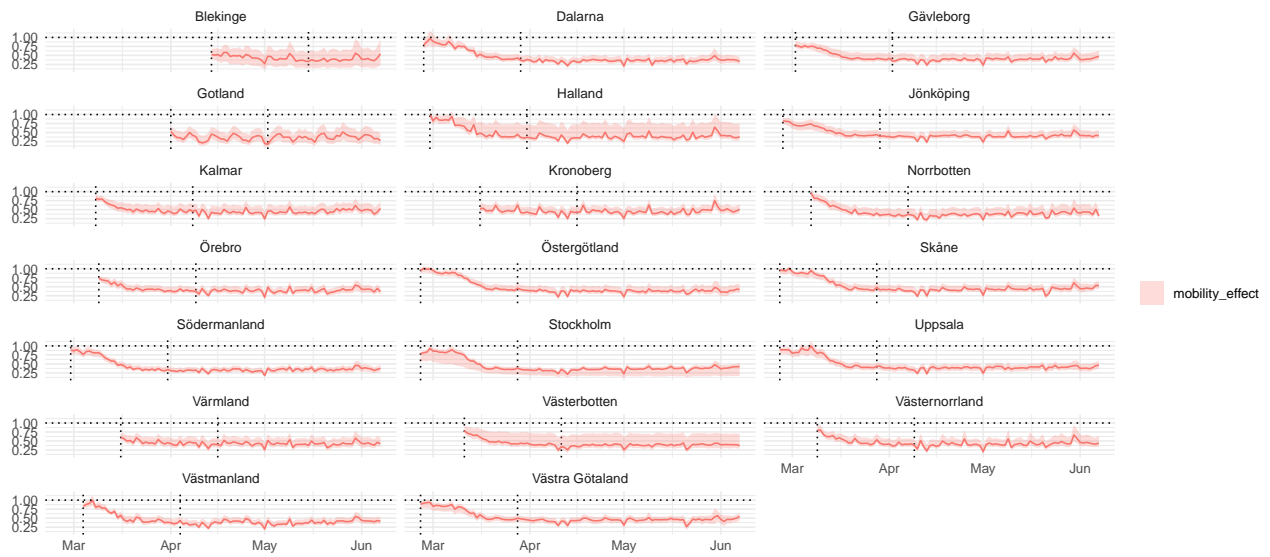
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$

Contact Rate

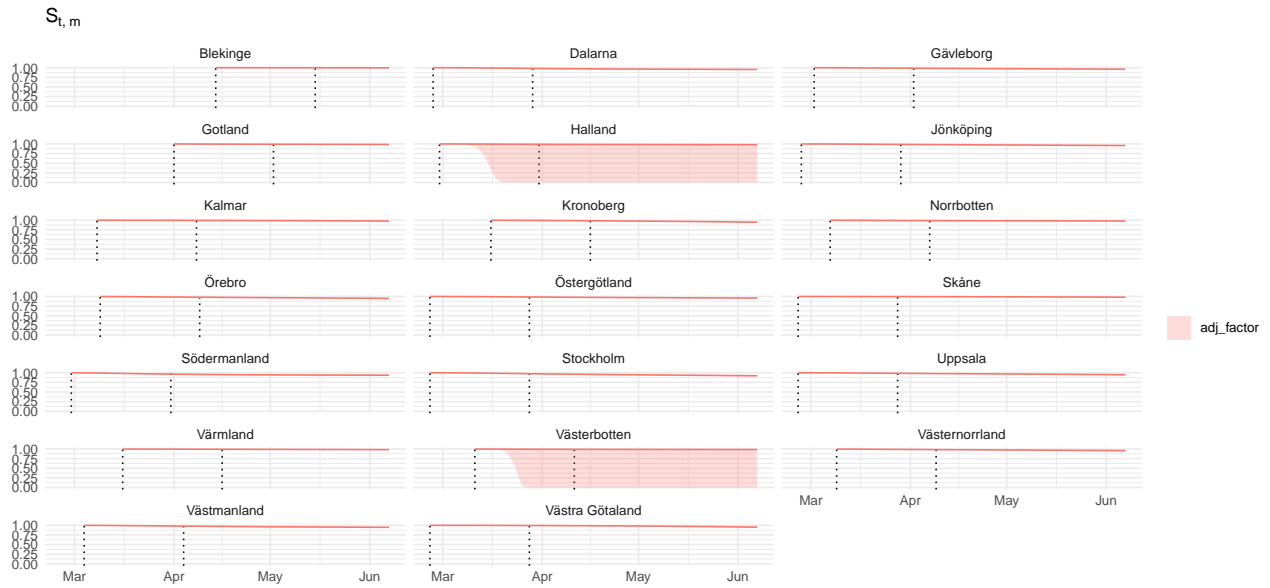


Vertical dotted lines represent the first seeding day and the epidemic start date.
Ribbons represent the 80% credible intervals.

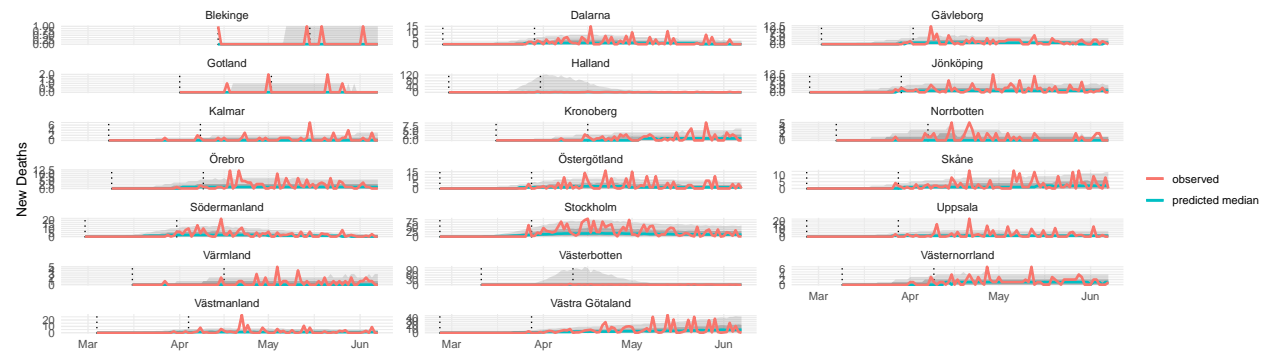
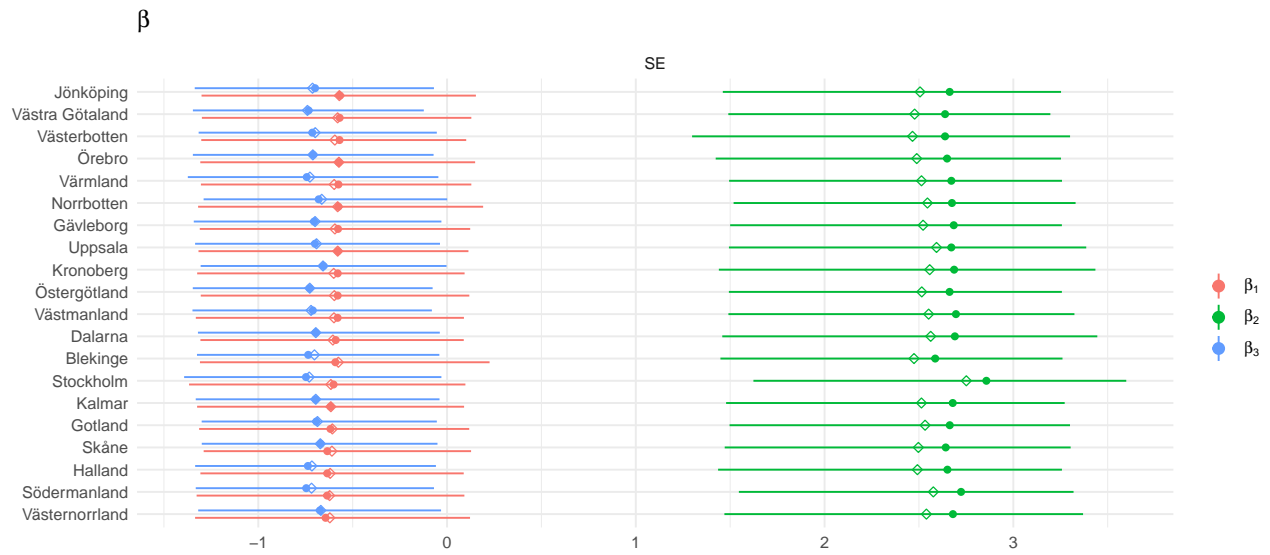
Mobility effect



Vertical dotted lines represent the first seeding day and the epidemic start date.
Ribbons represent the 80% credible intervals.

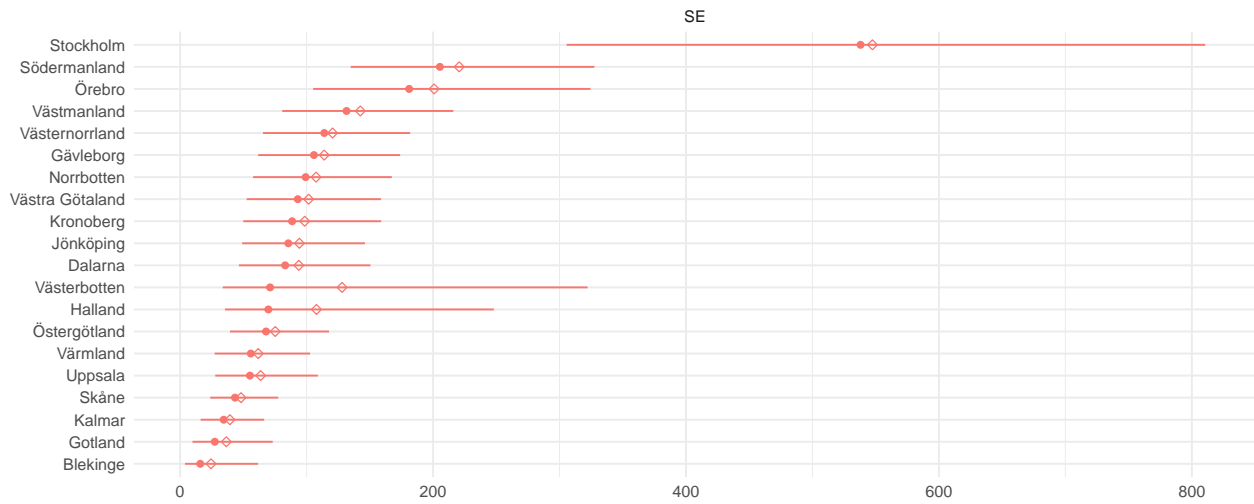


Mobility linear model: $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$.

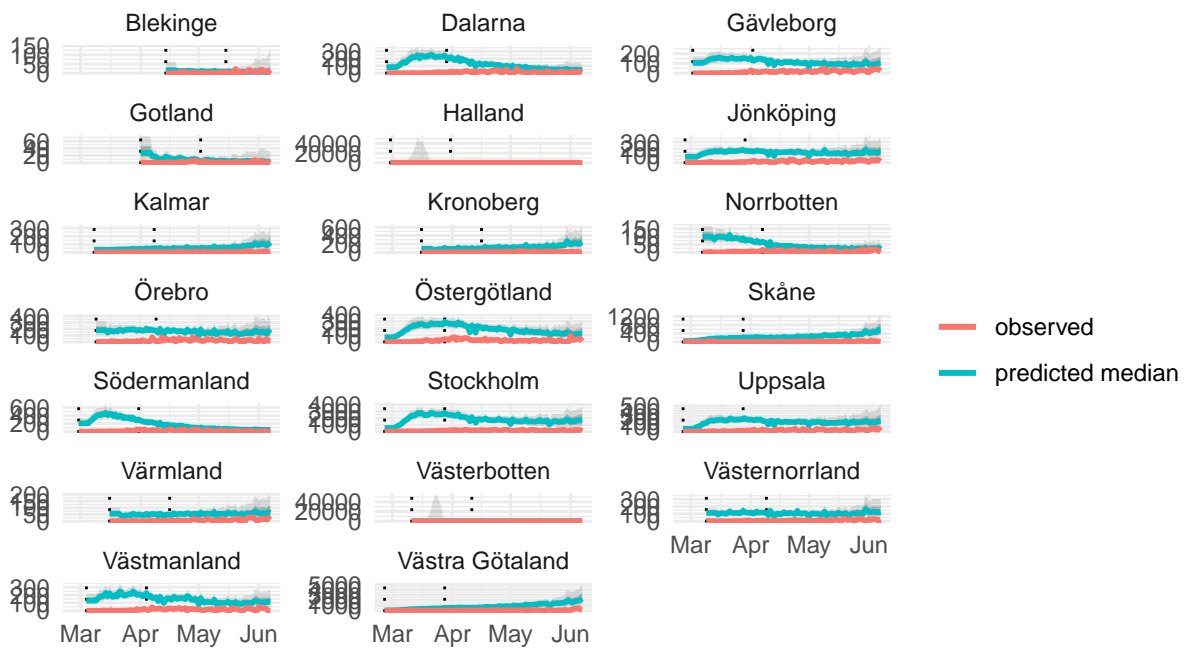


Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths. Vertical dotted lines represent the first seeding day and the epidemic start date.

Imputed Cases

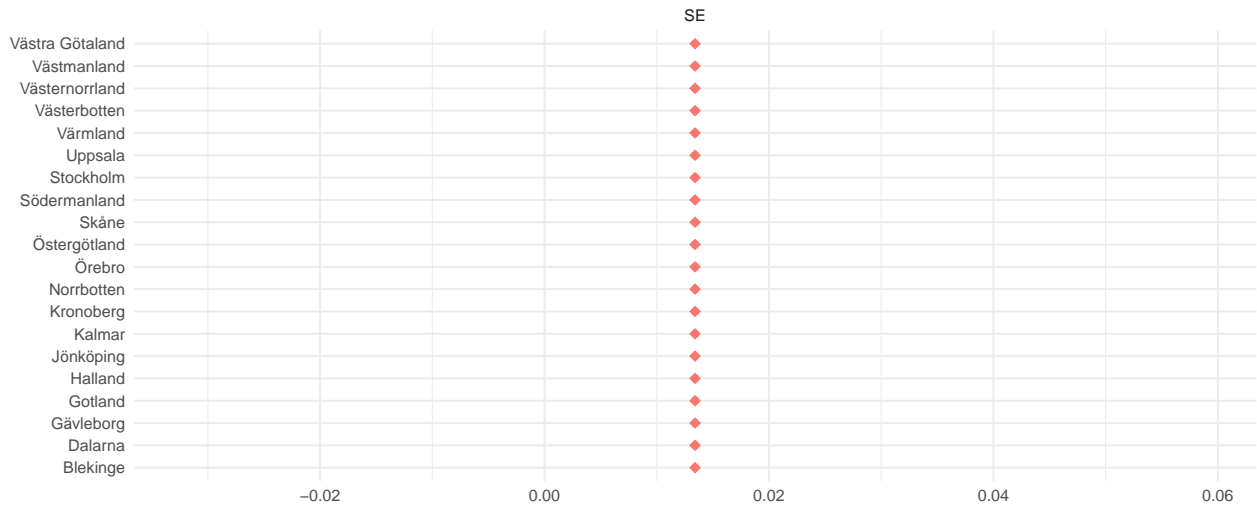


New Cases predicted vs observed



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.

IFR



Diagnostics

