Ecuador

Data

New Deaths

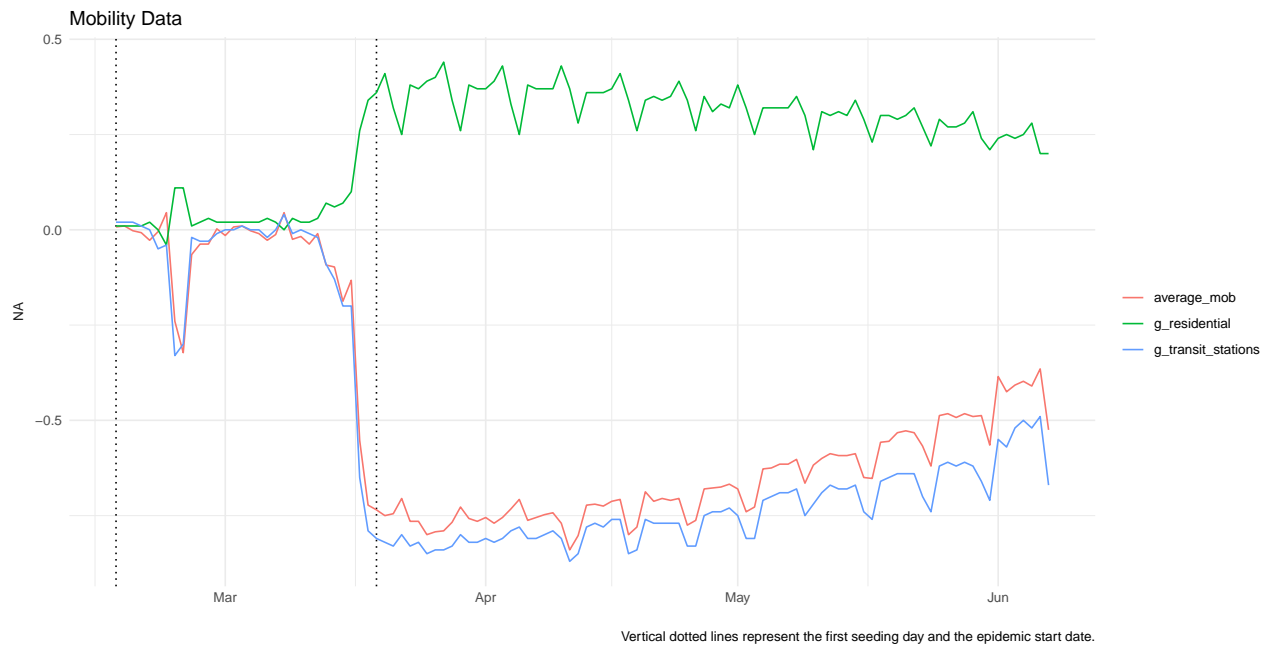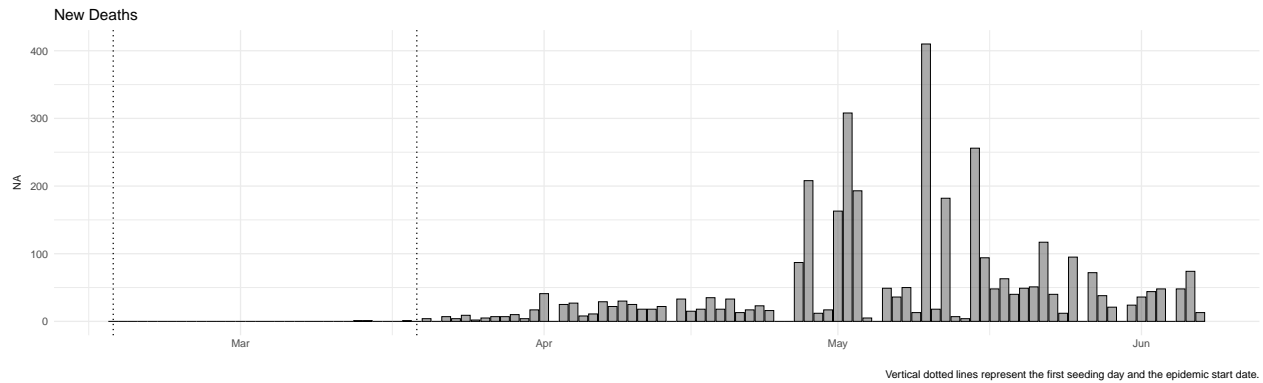Mobility Data
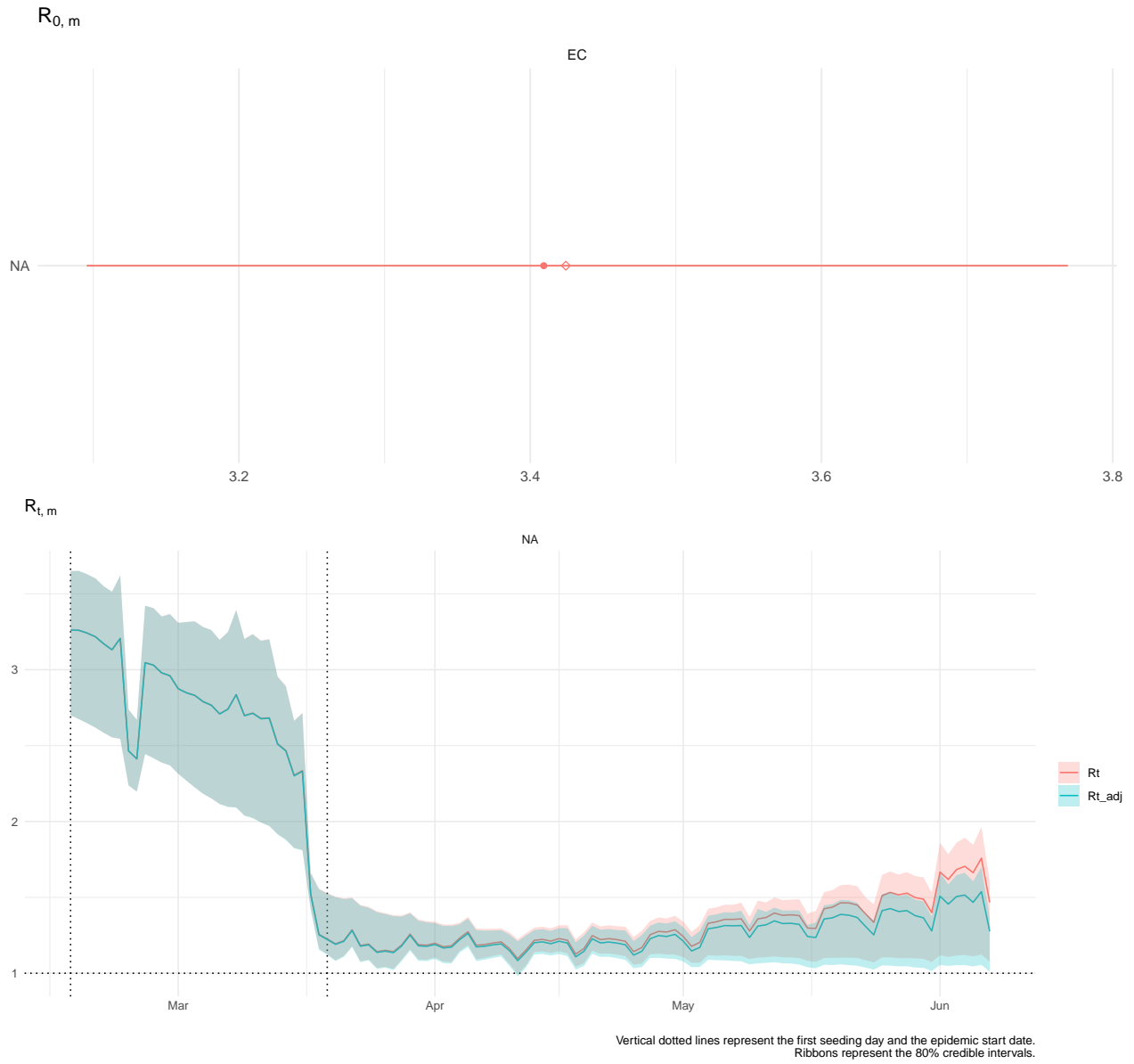

Legend:
- average_mob
- g_residential
- g_transit_stations

Analysis

Number of divergent transitions = 0

Maximum $\hat{R}$ = 1.00794

Minimum Bulk ESS = 605.0346

Minimum Tail ESS = 1189.839

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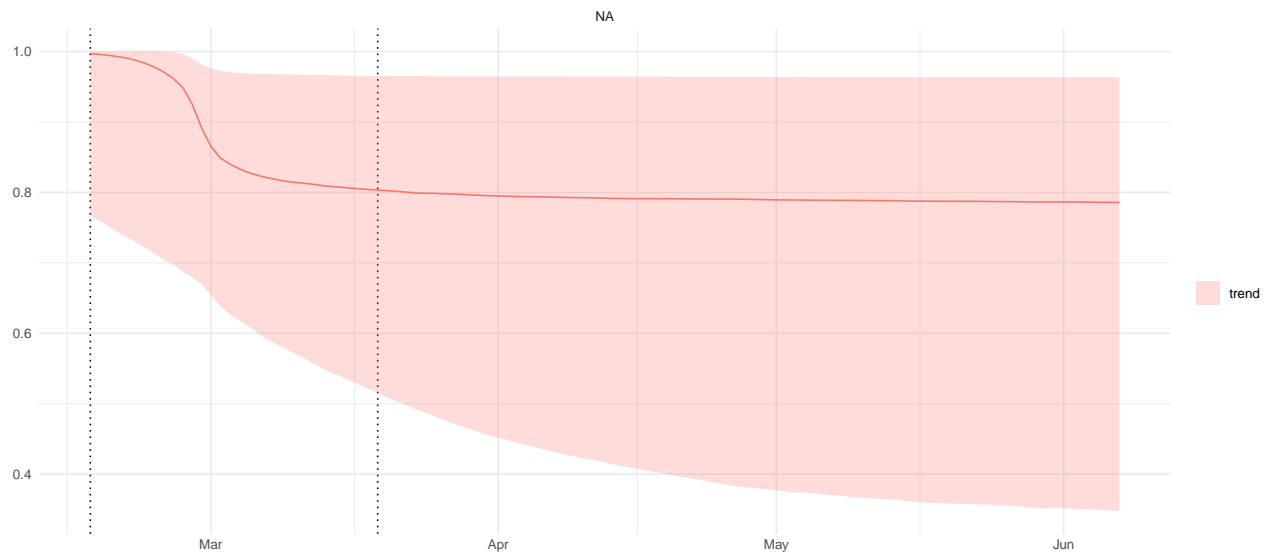
Contact rate function:

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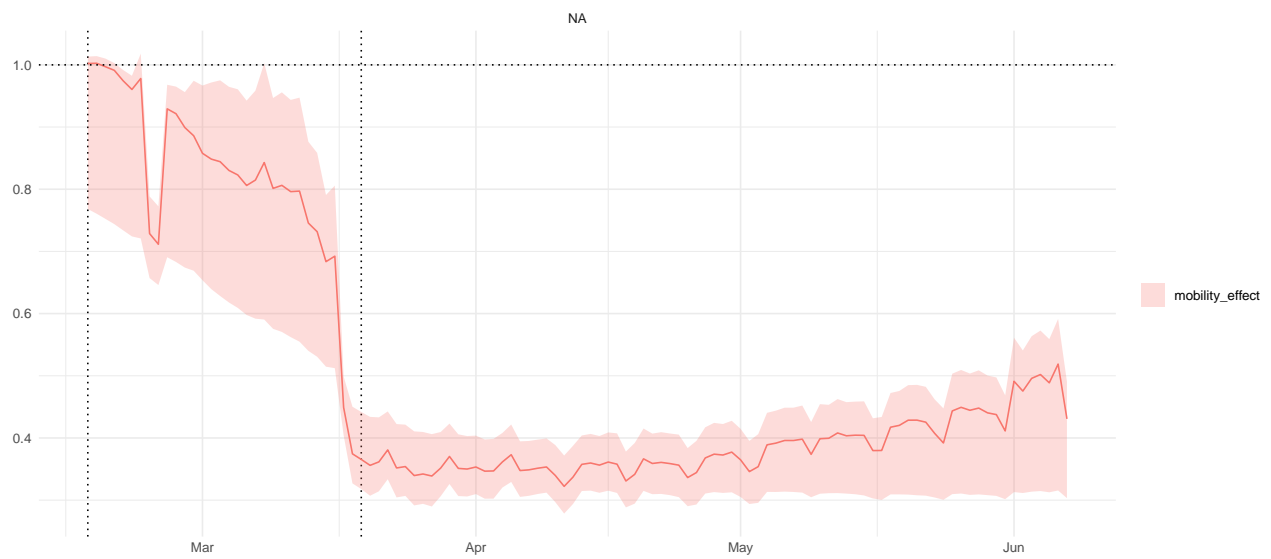
where

$$\lambda_j \sim \mathtt{Beta}(3, 1)$$
$$\kappa \sim \mathtt{NegHalfNormal}(0, 1).$$

Contact Rate

NA

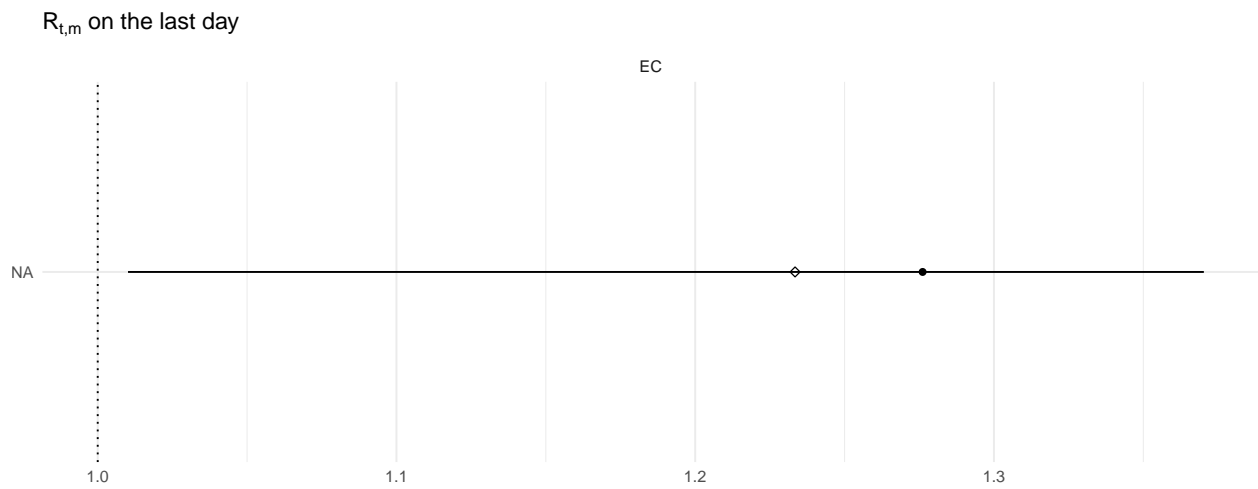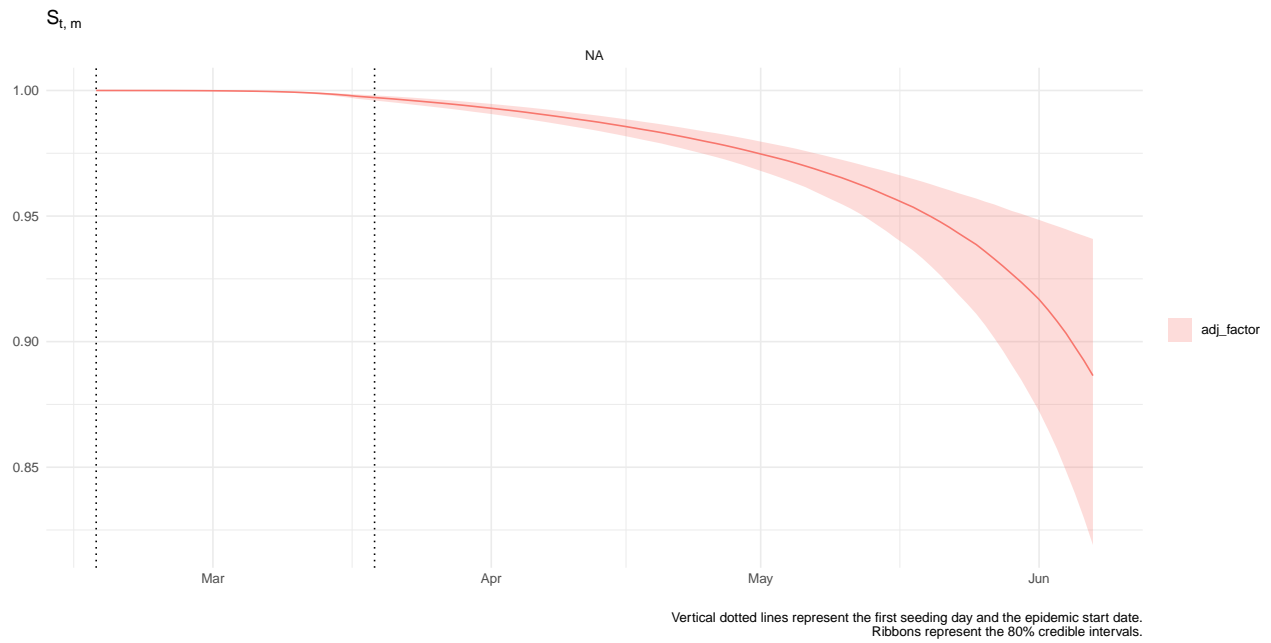

Vertical dotted lines represent the first seeding day and the epidemic start date.
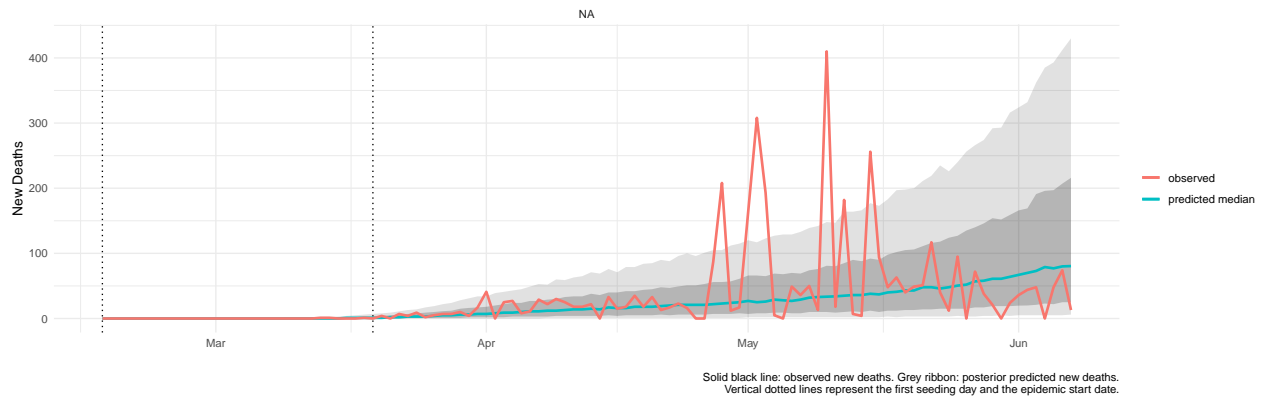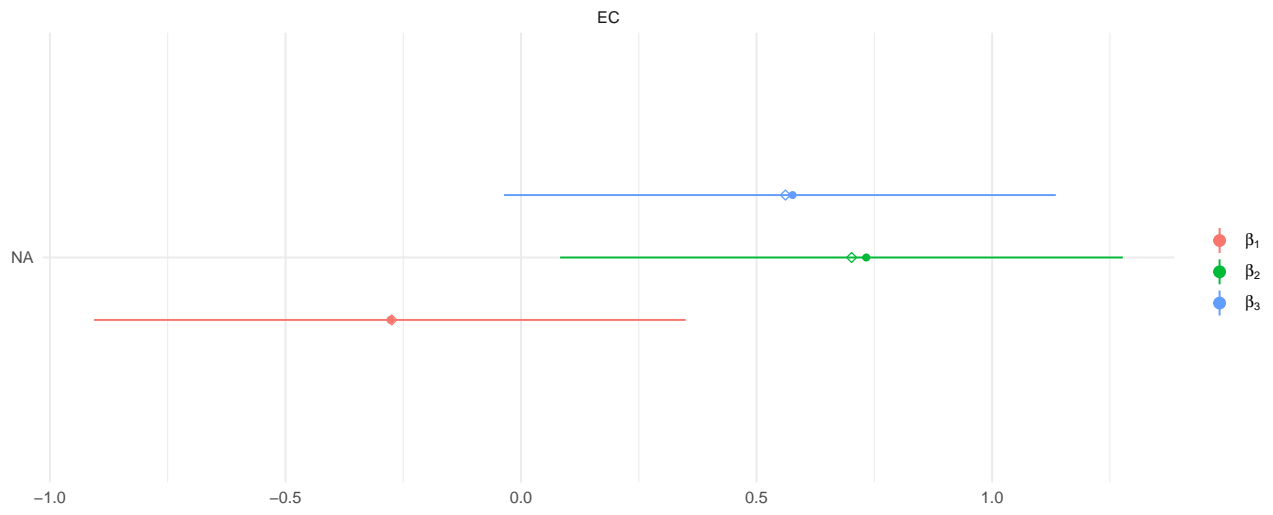Ribbons represent the 80% credible intervals.

Mobility effect

NA

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

$S_{t, m}$

NA

1.00

0.95

0.90

0.85

Mar   Apr   May   Jun

adj_factor

Vertical dotted lines represent the first seeding day and the epidemic start date.
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$R_{t,m}$ on the last day

EC

NA

1.0   1.1   1.2   1.3

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

β

EC

β_1
β_2
β_3

NA

observed
predicted median

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

EC

NA

IFR

EC

NA

0.0048   0.0052   0.0056   0.0060