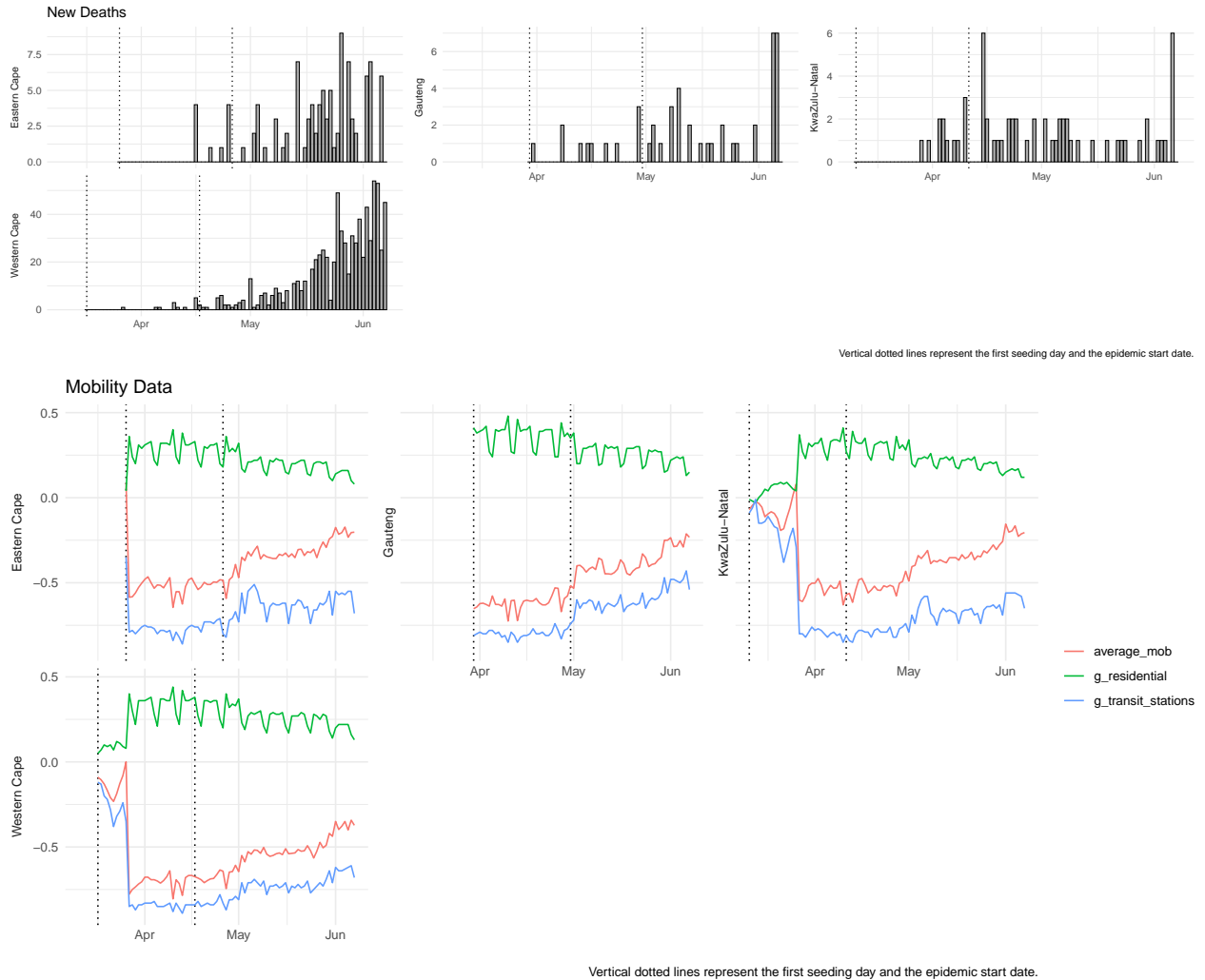


South Africa

Data



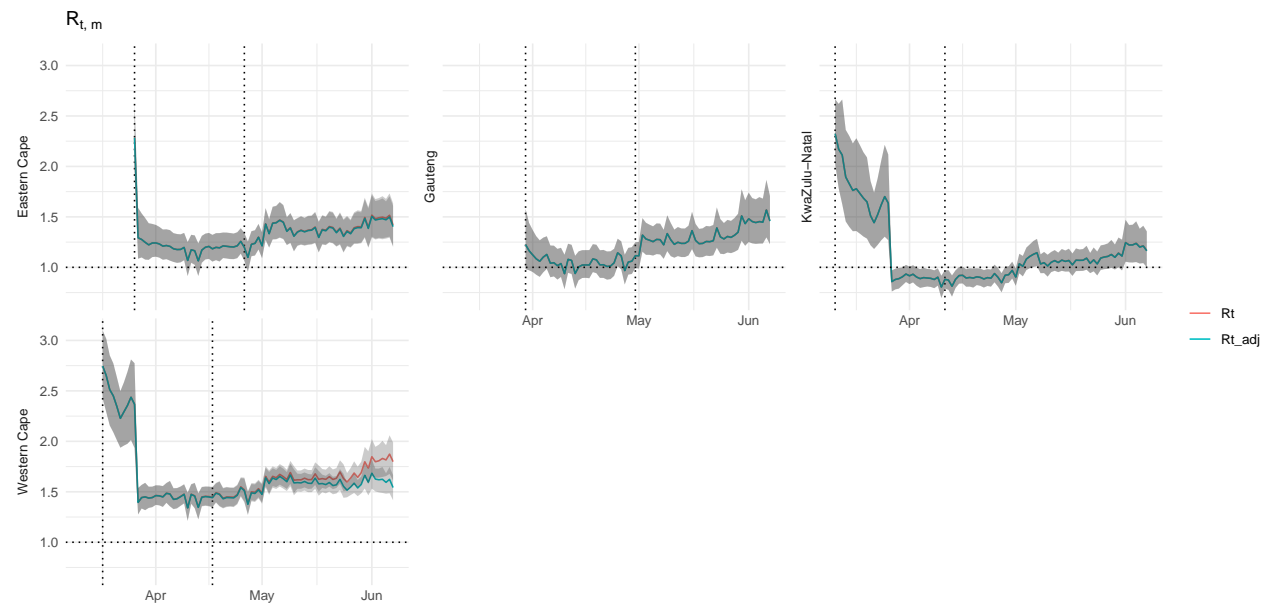
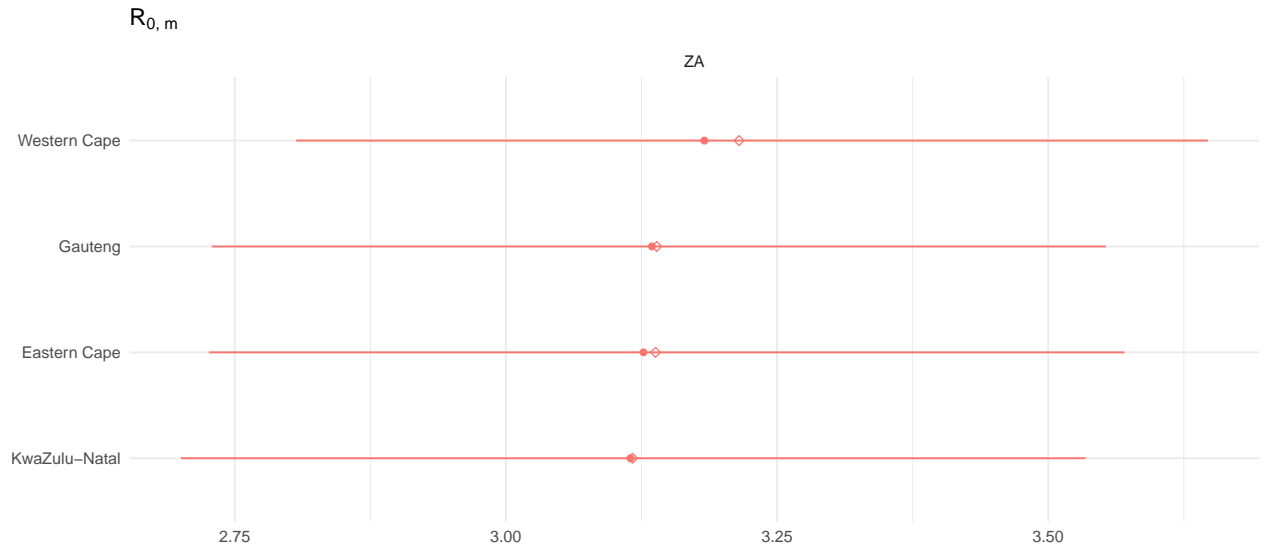
Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.005472$

Minimum Bulk ESS = 1401.237

Minimum Tail ESS = 1190.201



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

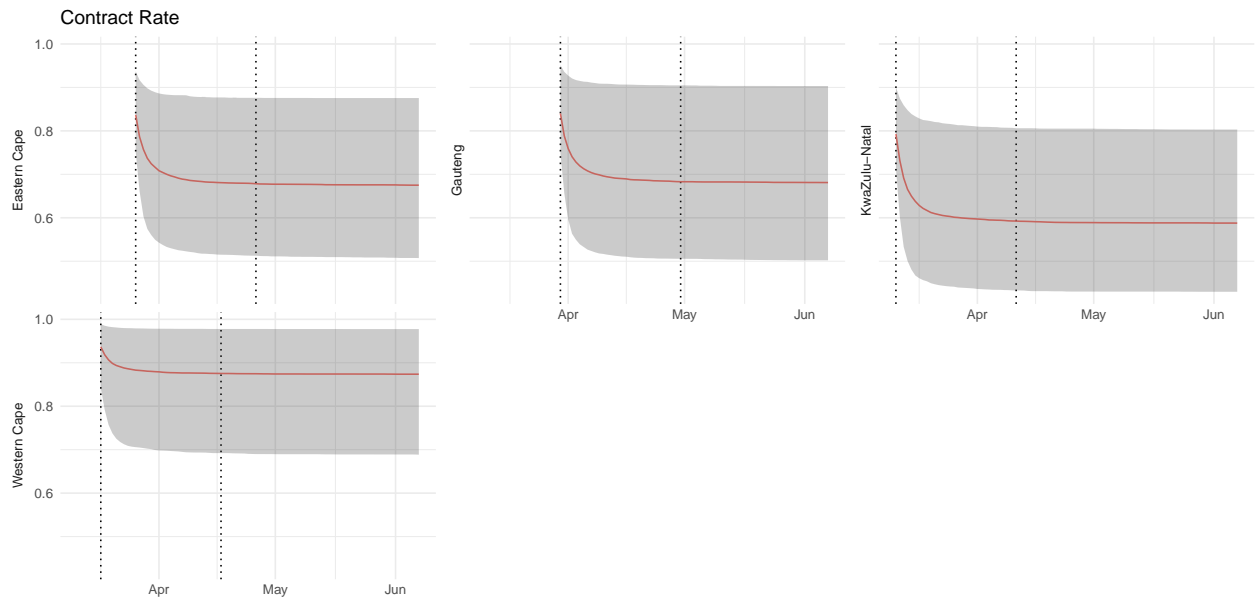
Contact rate function:

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

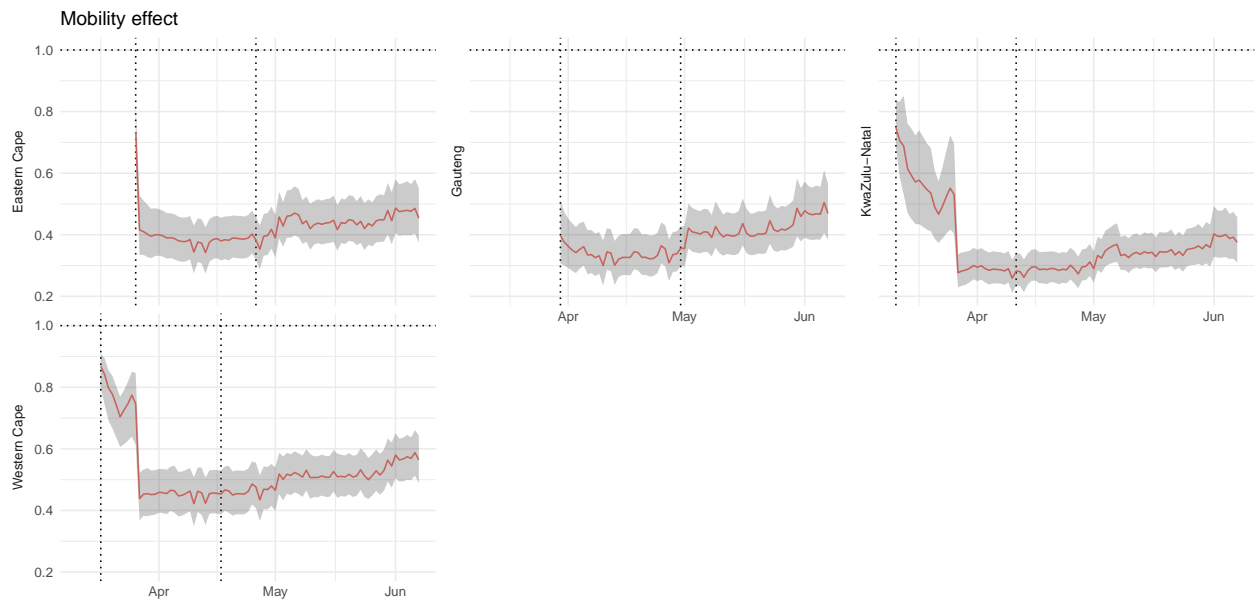
where

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

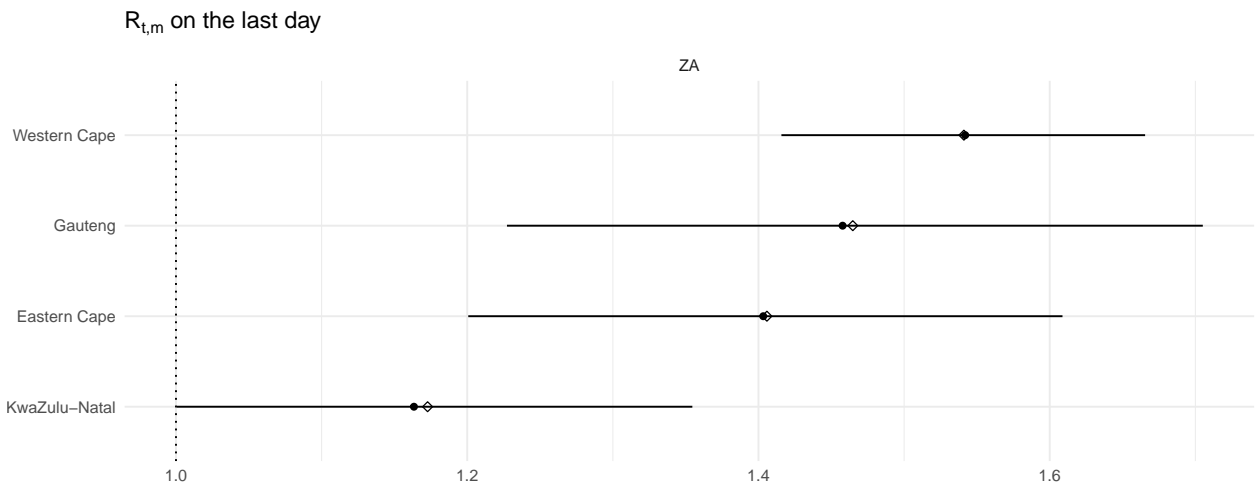
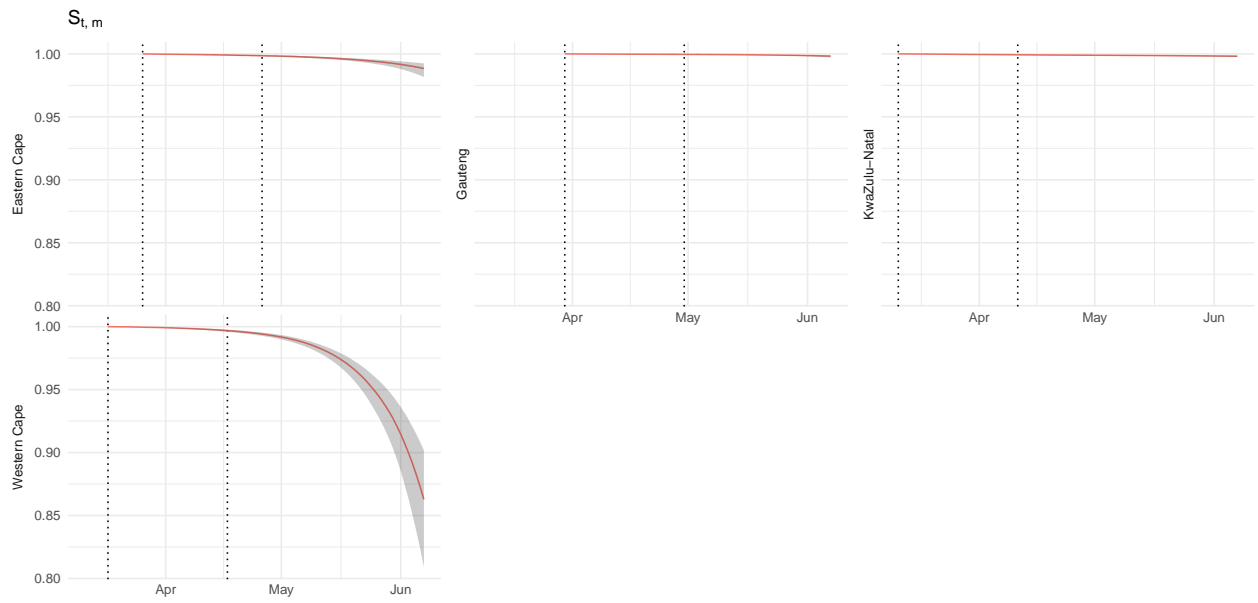
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$



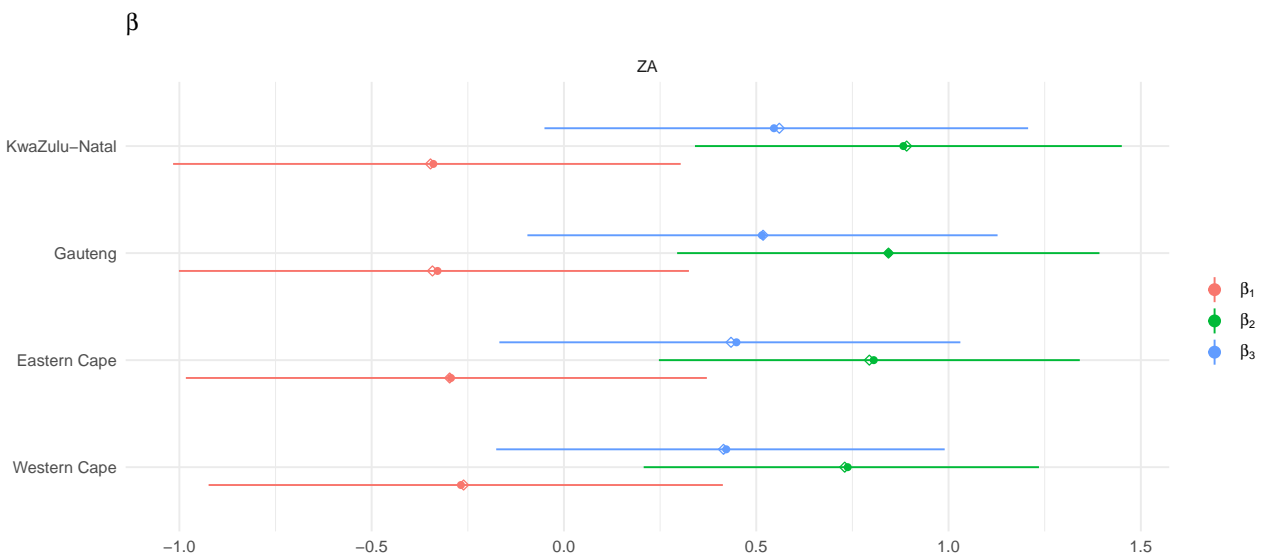
Vertical dotted lines represent the first seeding day and the epidemic start date.

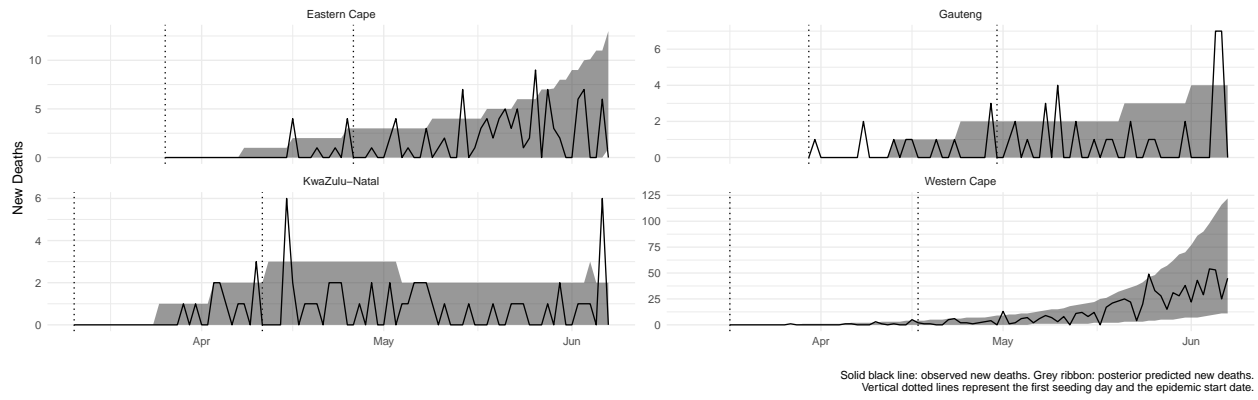


Vertical dotted lines represent the first seeding day and the epidemic start date.



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





Imputed Cases

