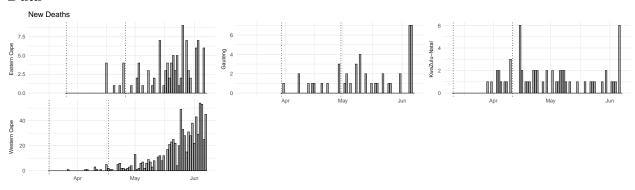
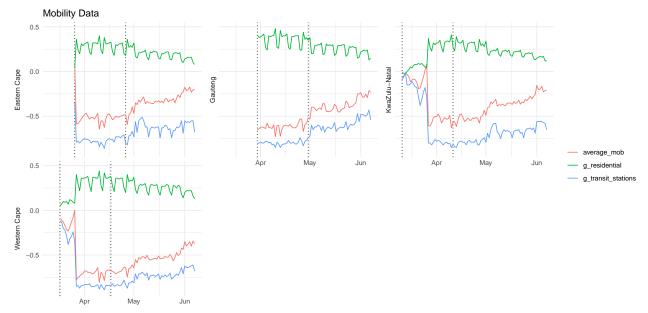
South Africa

Data



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.

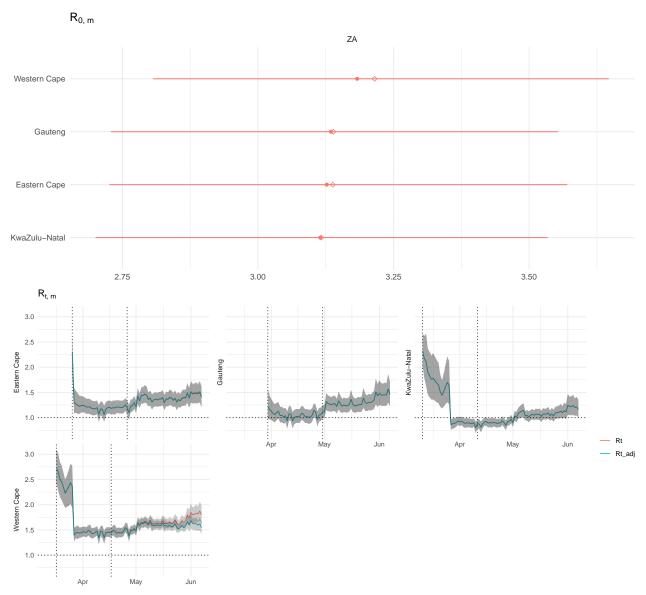
Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.005472$

Minimum Bulk ESS = 1401.237

Minimum Tail ESS = 1190.201



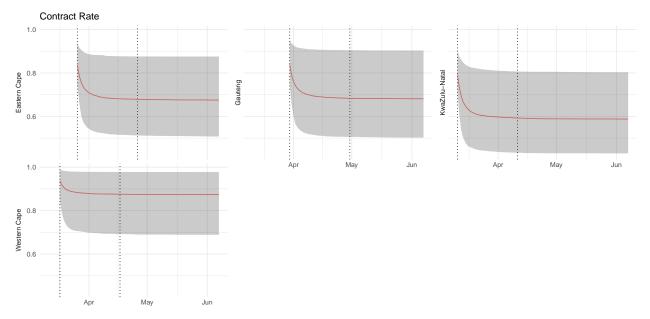
Vertical dotted lines represent the first seeding day and the epidemic start date.

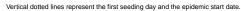
Contact rate function:

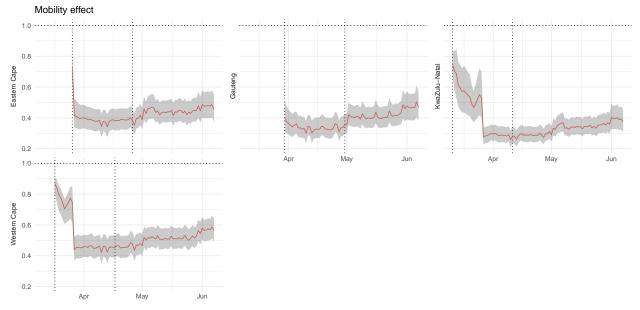
$$cr(t;t^*,\lambda_j,\kappa) = \lambda_j + \frac{1-\lambda_j}{1+\exp(\kappa(t-t^*))}$$

where

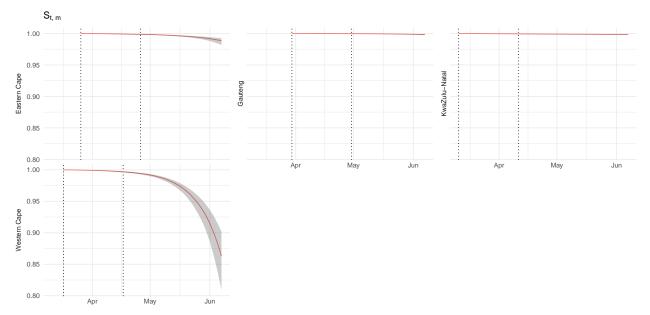
$$\begin{split} \lambda_j &\sim \texttt{Beta}(3,1) \\ \kappa &\sim \texttt{NegHalfNormal}(0,1). \end{split}$$





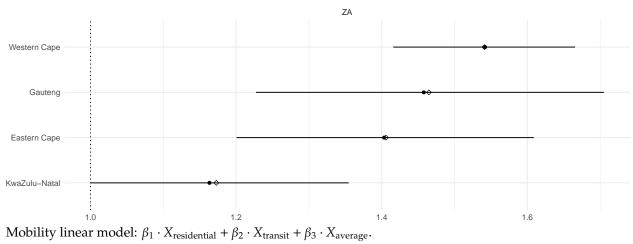


Vertical dotted lines represent the first seeding day and the epidemic start date.

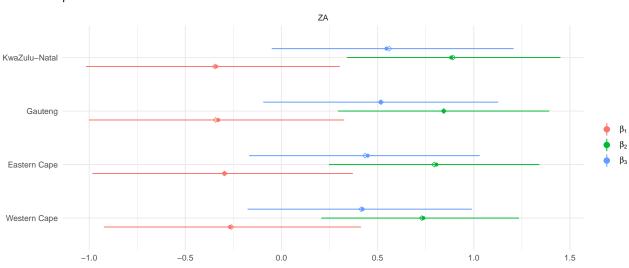


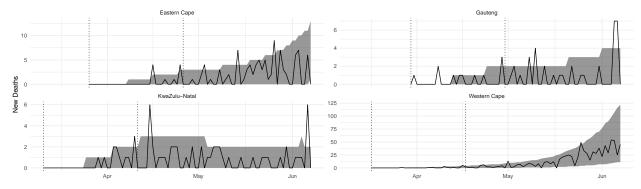
Vertical dotted lines represent the first seeding day and the epidemic start date.

$\boldsymbol{R}_{t,m}$ on the last day

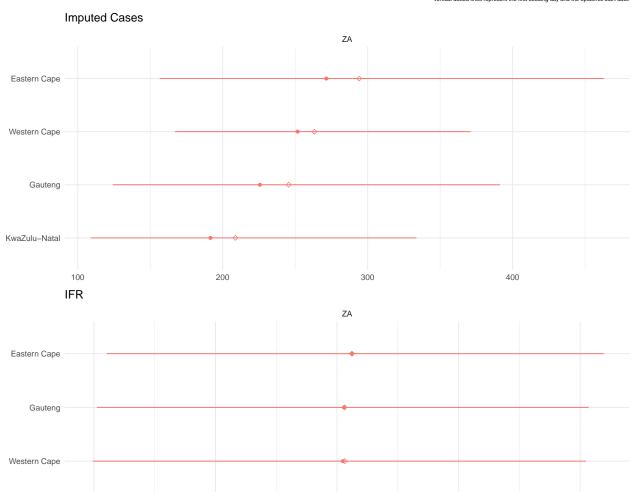








Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths. Vertical dotted lines represent the first seeding day and the epidemic start date.



0.00400

0.00425

0.00450

KwaZulu-Natal

0.00350

0.00375