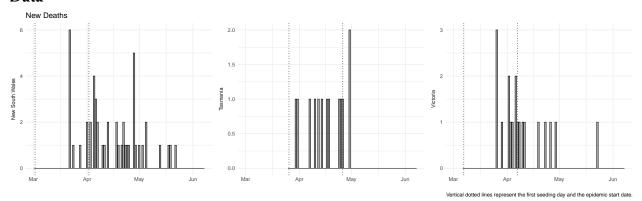
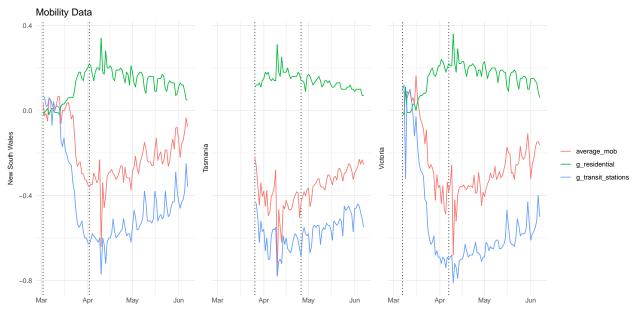
Australia

Data





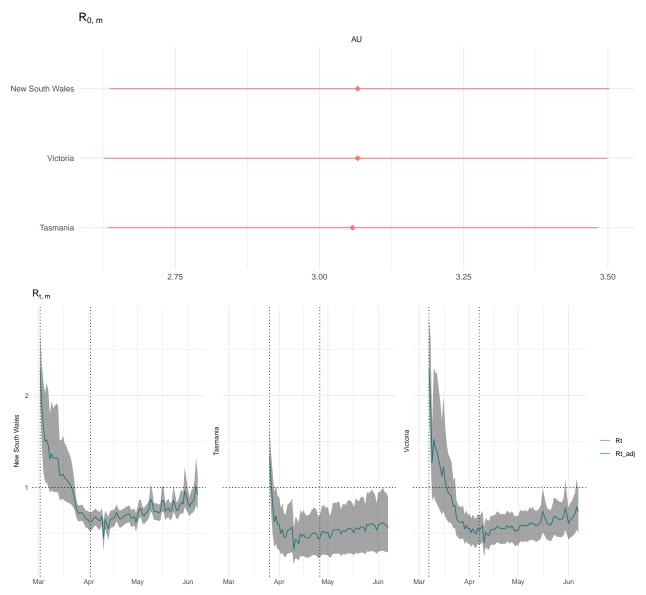
Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.005874$

Minimum Bulk ESS = 1327.791

Minimum Tail ESS = 1148.176



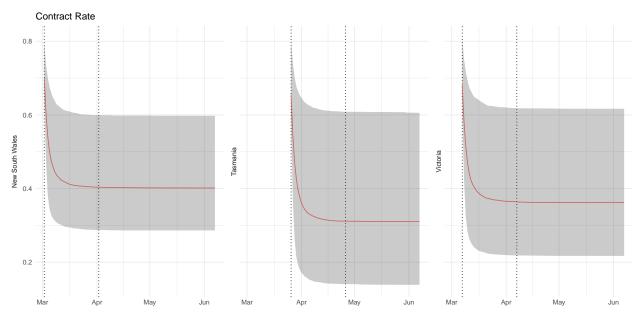
Vertical dotted lines represent the first seeding day and the epidemic start date.

Contact rate function:

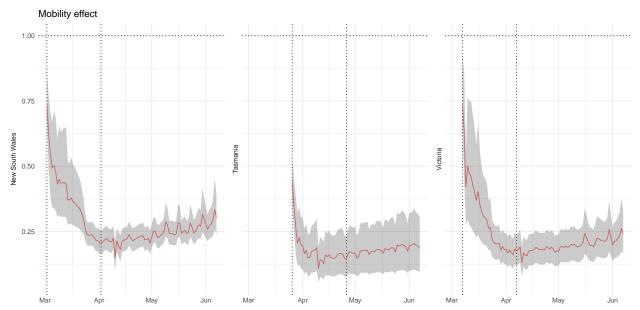
$$cr(t;t^*,\lambda_j,\kappa) = \lambda_j + \frac{1-\lambda_j}{1+\exp(\kappa(t-t^*))}$$

where

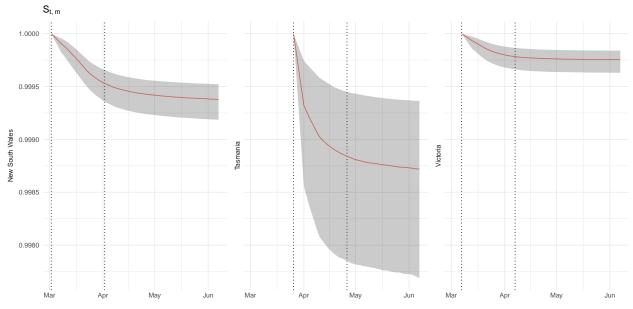
$$\begin{split} \lambda_j &\sim \texttt{Beta}(3,1) \\ \kappa &\sim \texttt{NegHalfNormal}(0,1). \end{split}$$



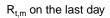
Vertical dotted lines represent the first seeding day and the epidemic start date.

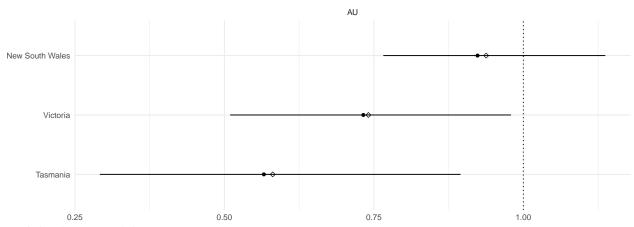


Vertical dotted lines represent the first seeding day and the epidemic start date.



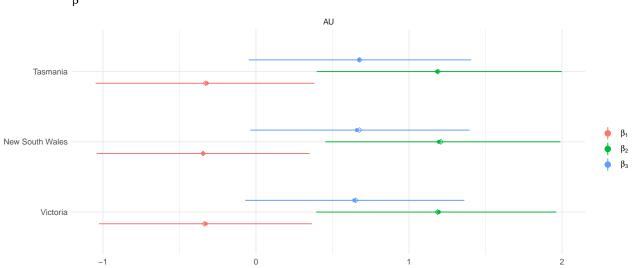
Vertical dotted lines represent the first seeding day and the epidemic start date.

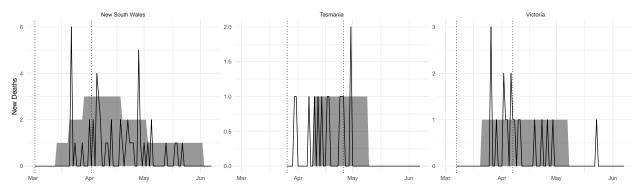




Mobility linear model: $\beta_1 \cdot X_{residential} + \beta_2 \cdot X_{transit} + \beta_3 \cdot X_{average}$.



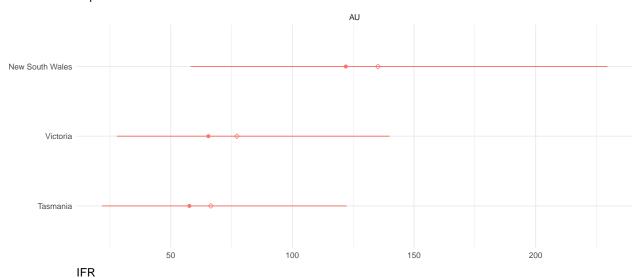


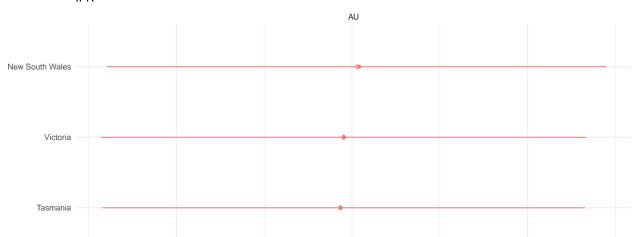


Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths. Vertical dotted lines represent the first seeding day and the epidemic start date.

0.012

Imputed Cases





0.011

0.010