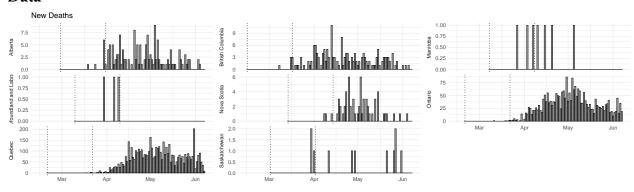
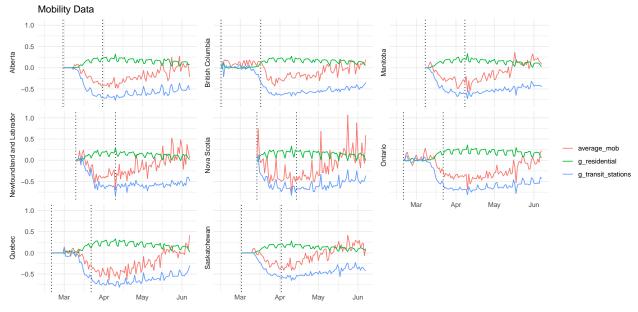
Canada

Data



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



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

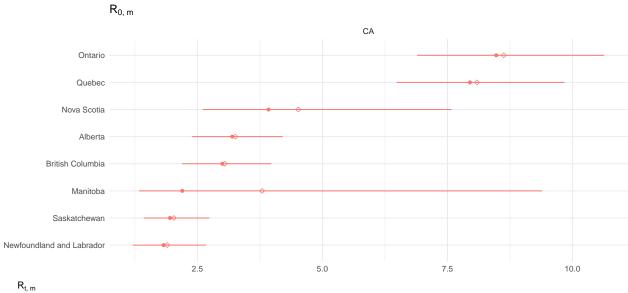
Analysis

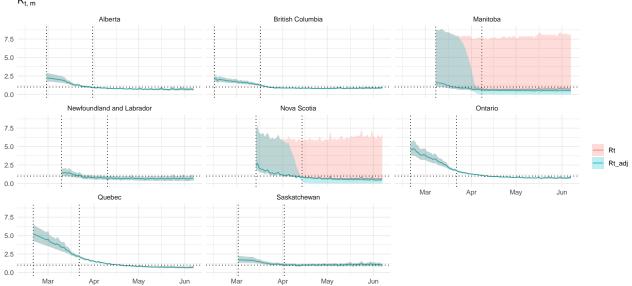
Number of divergent transitions = 1

Maximum $\hat{R} = 1.531799$

Minimum Bulk ESS = 7.144474

Minimum Tail ESS = 4.700294





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

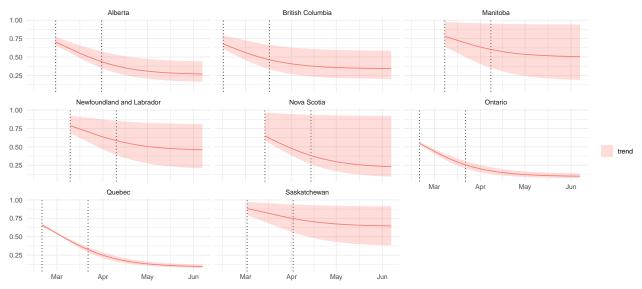
Contact rate function:

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

where

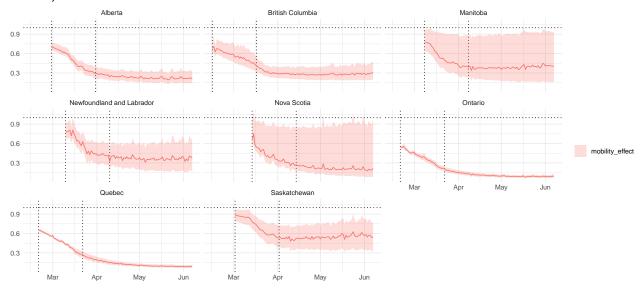
$$\lambda_j \sim \text{Beta}(3,1)$$
 $\kappa \sim \text{NegHalfNormal}(0,1).$



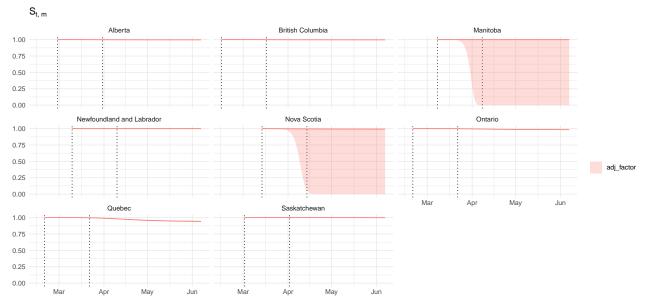


Vertical dotted lines represent the first seeding day and the epidemic start date. Ribbons represent the 80% credible intervals.

Mobility effect

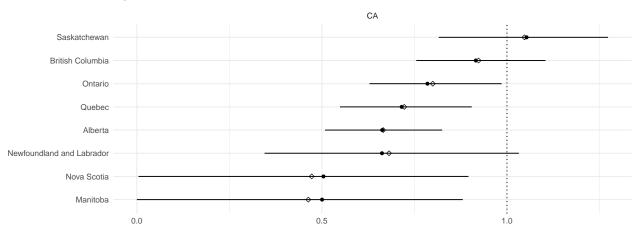


Vertical dotted lines represent the first seeding day and the epidemic start date. Ribbons represent the 80% credible intervals.



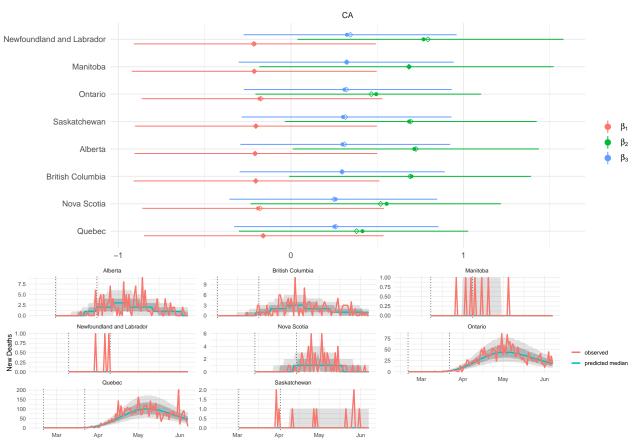
Vertical dotted lines represent the first seeding day and the epidemic start date. Ribbons represent the 80% credible intervals.

$R_{t,m}$ on the last day



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

Imputed Cases

