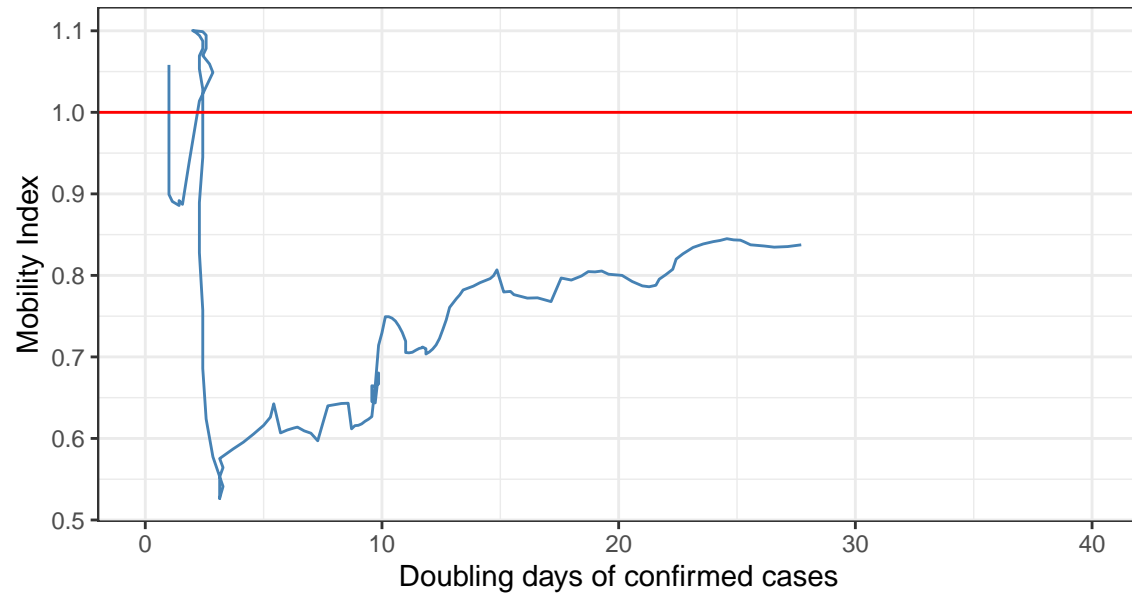


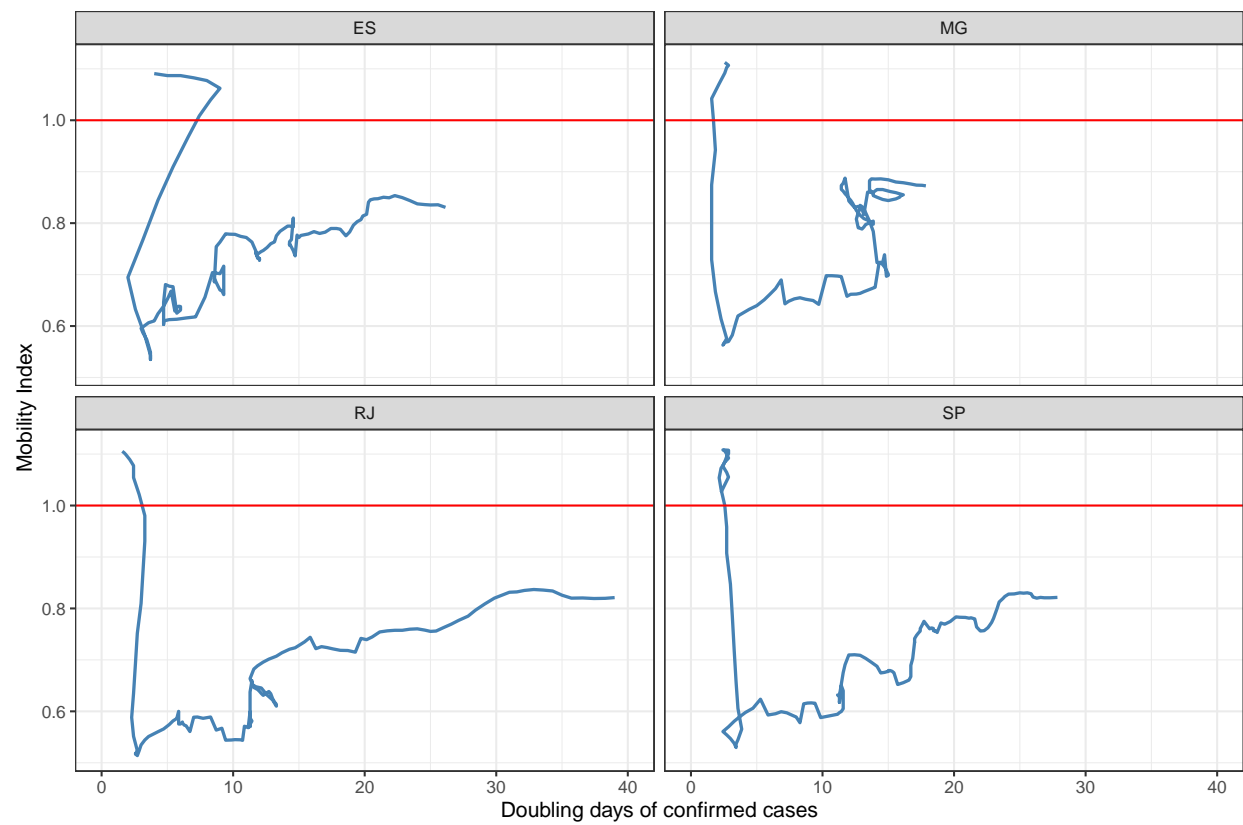
Atividade x COVID

Usando dados de mobilidade

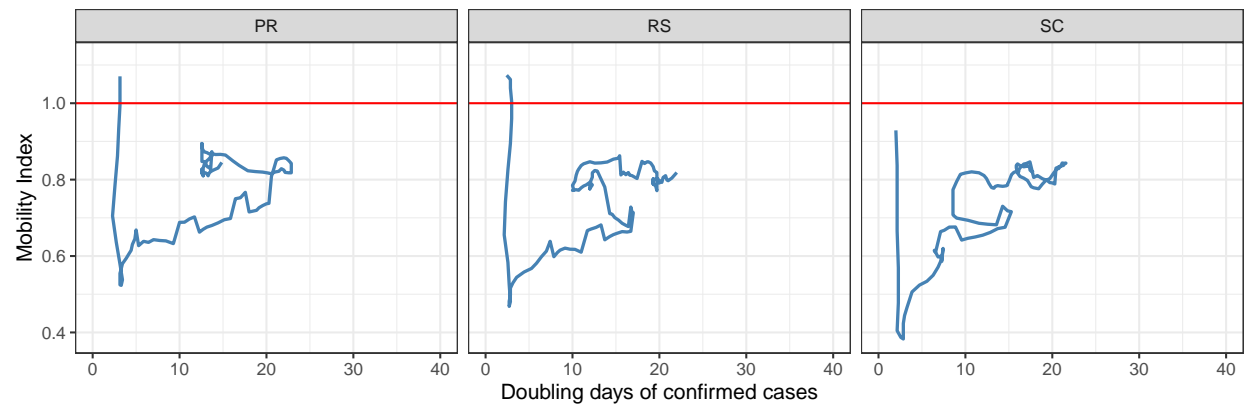
Brasil



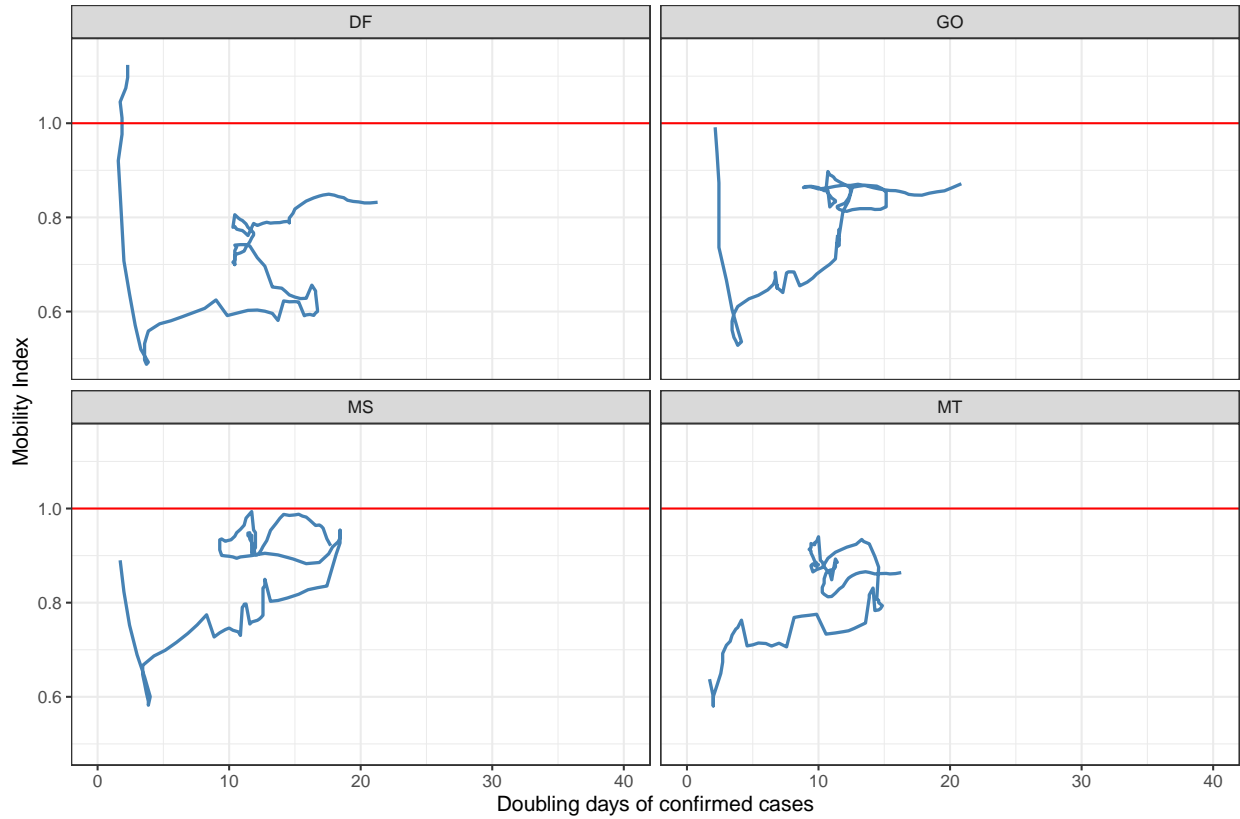
Região Sudeste



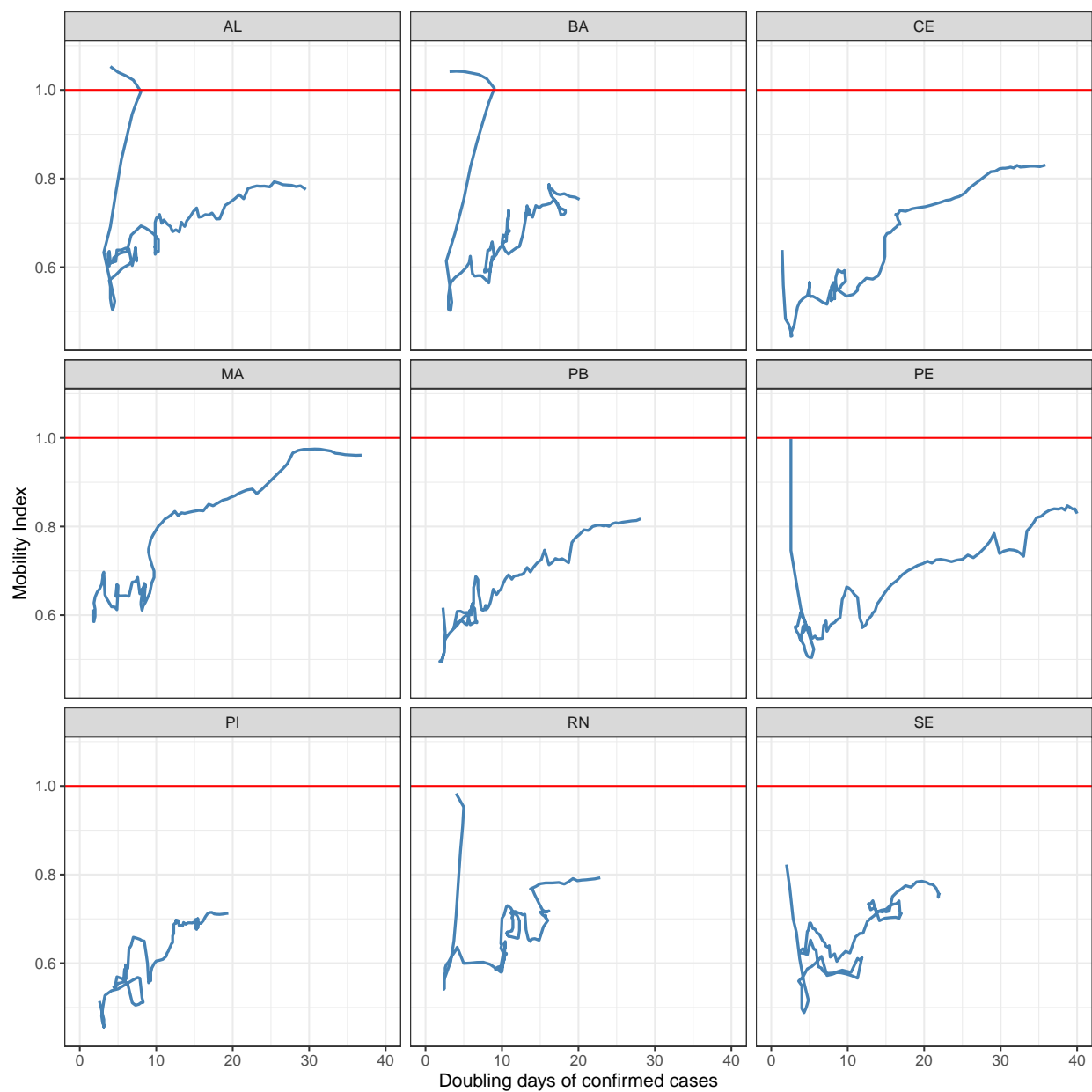
Região Sul



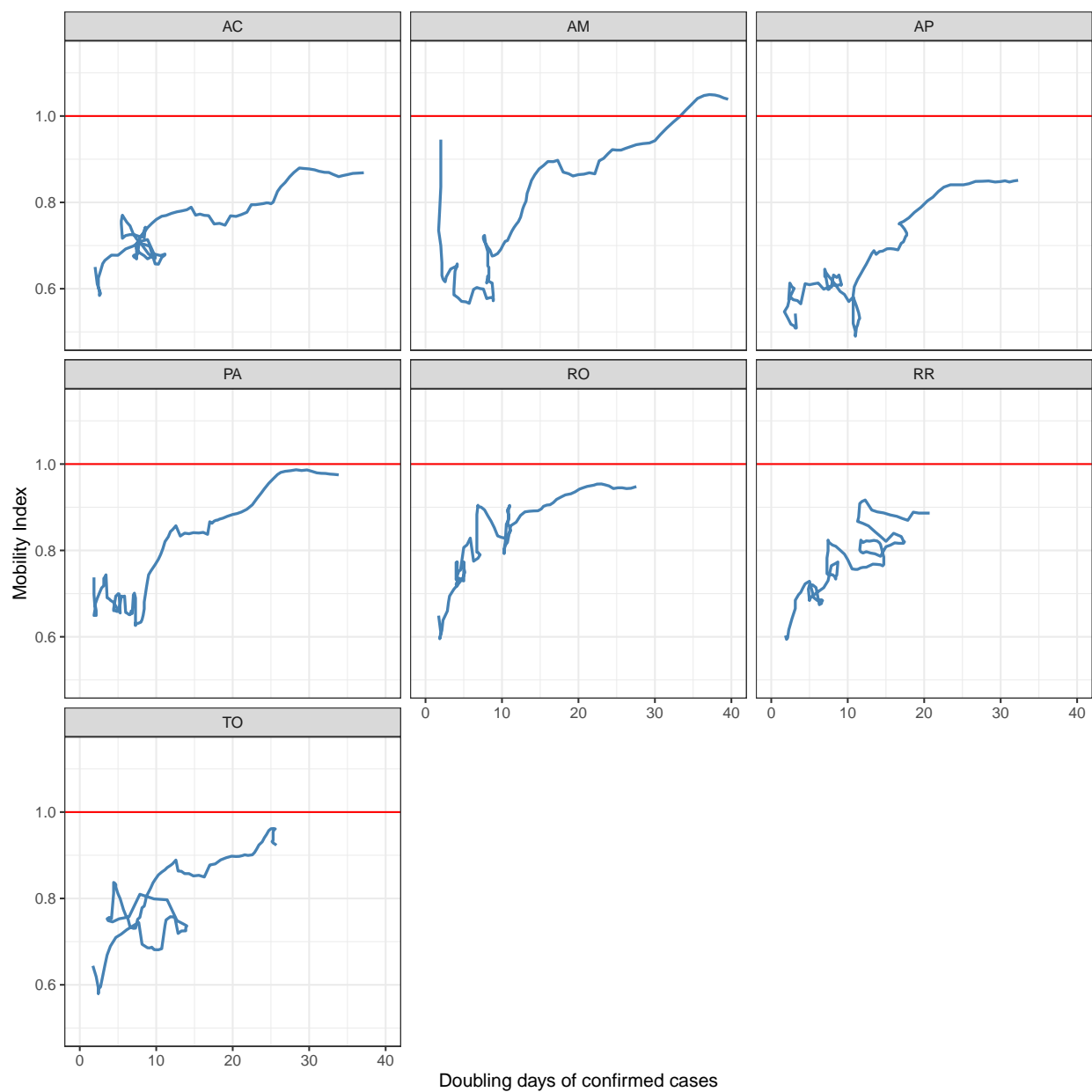
Região Centro-Oeste



Região Nordeste



Região Norte



Usando dados de energia

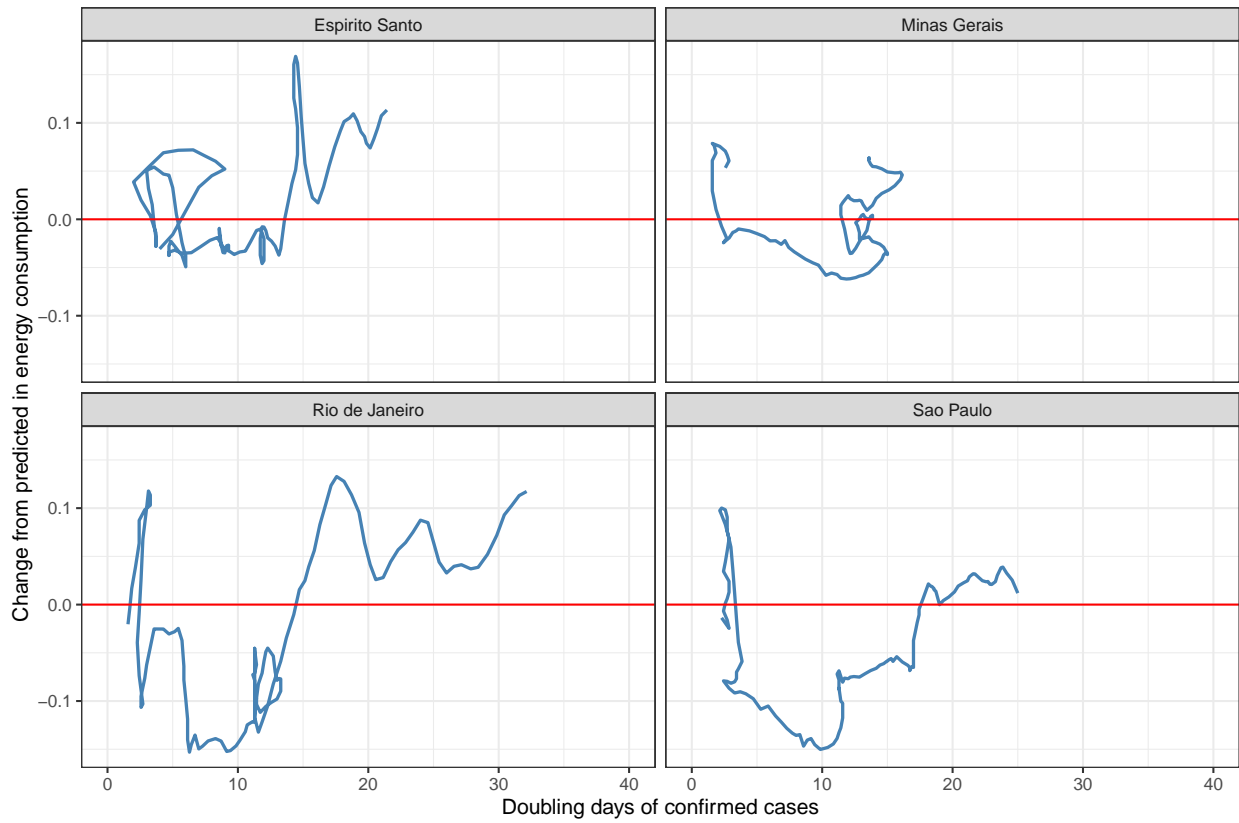
Trocando os dados de mobilidade pela diferença percentual entre o consumo de energia atual e o esperado.

Para definir o contrafactual, fazemos uma regressão para cada estado, com os dados de 08/2018 até 02/2020, da seguinte forma:

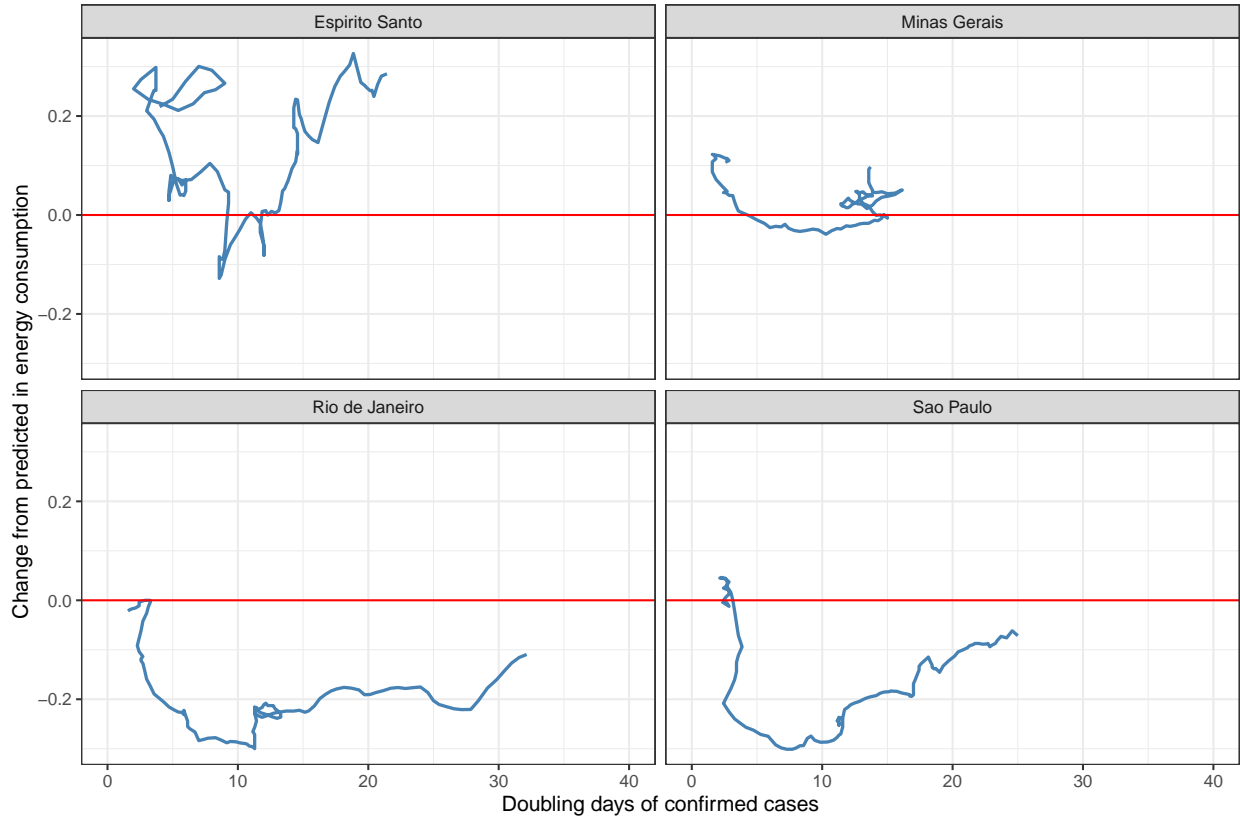
$$\begin{aligned} \text{Consumo Diariot} = \beta_0 + \sum_i i = 2^3 \psi_i D_{\text{ano}it} + \sum_i i = 2^{12} \delta_i D_{\text{mês}it} + \sum_i i = 2^7 \lambda_i D_{\text{dia da semana}_{it}} + \\ + \sum_{i=2}^k \theta_i D_{\text{feriado}_{it}} + \phi_1 t + \phi_2 t^2 + \epsilon_t \end{aligned} \quad (1)$$

A partir de 1, usamos os valores preditos para os dados a partir de Março de 2020 como o esperado para o consumo de energia. A diferença percentual mostrada nos gráficos abaixo se baseia nesses valores.

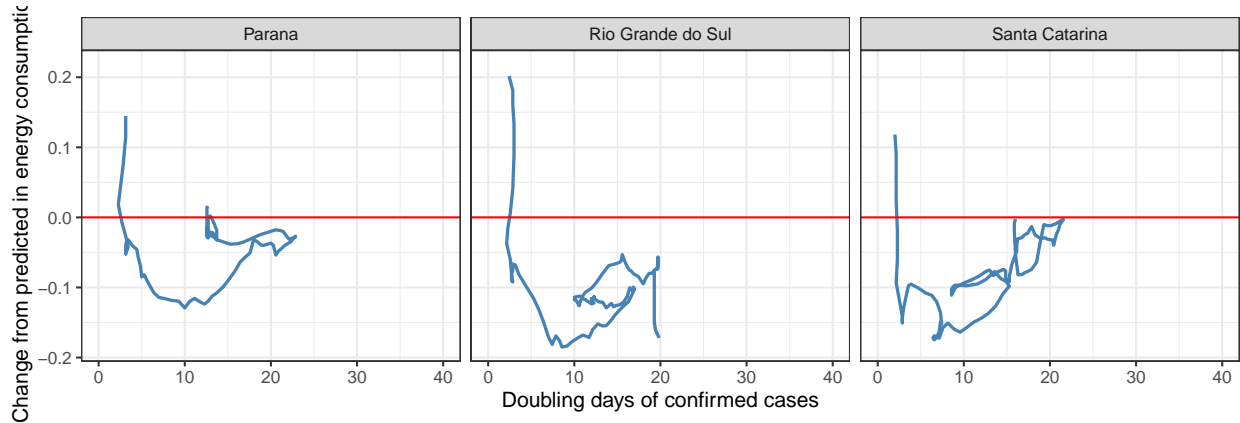
Região Sudeste



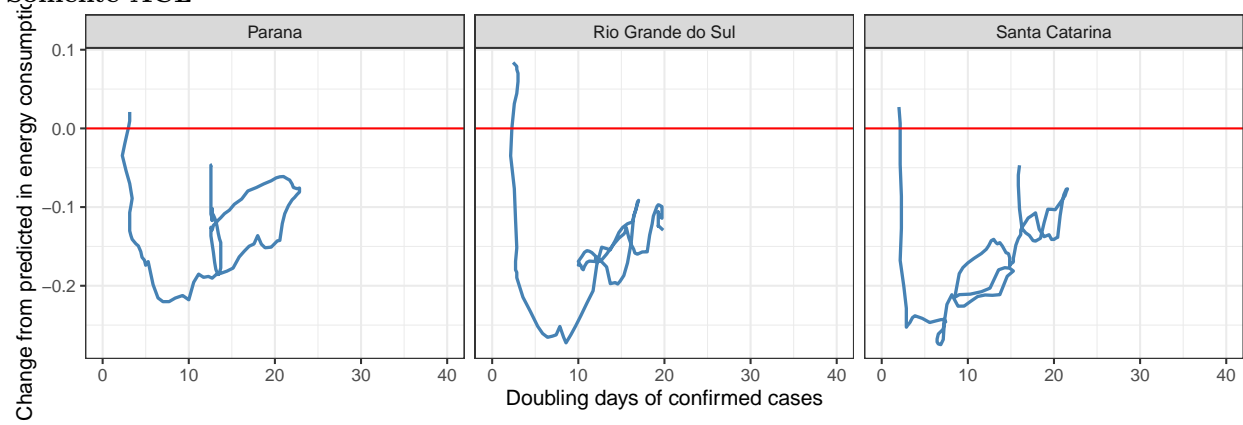
Somente ACL



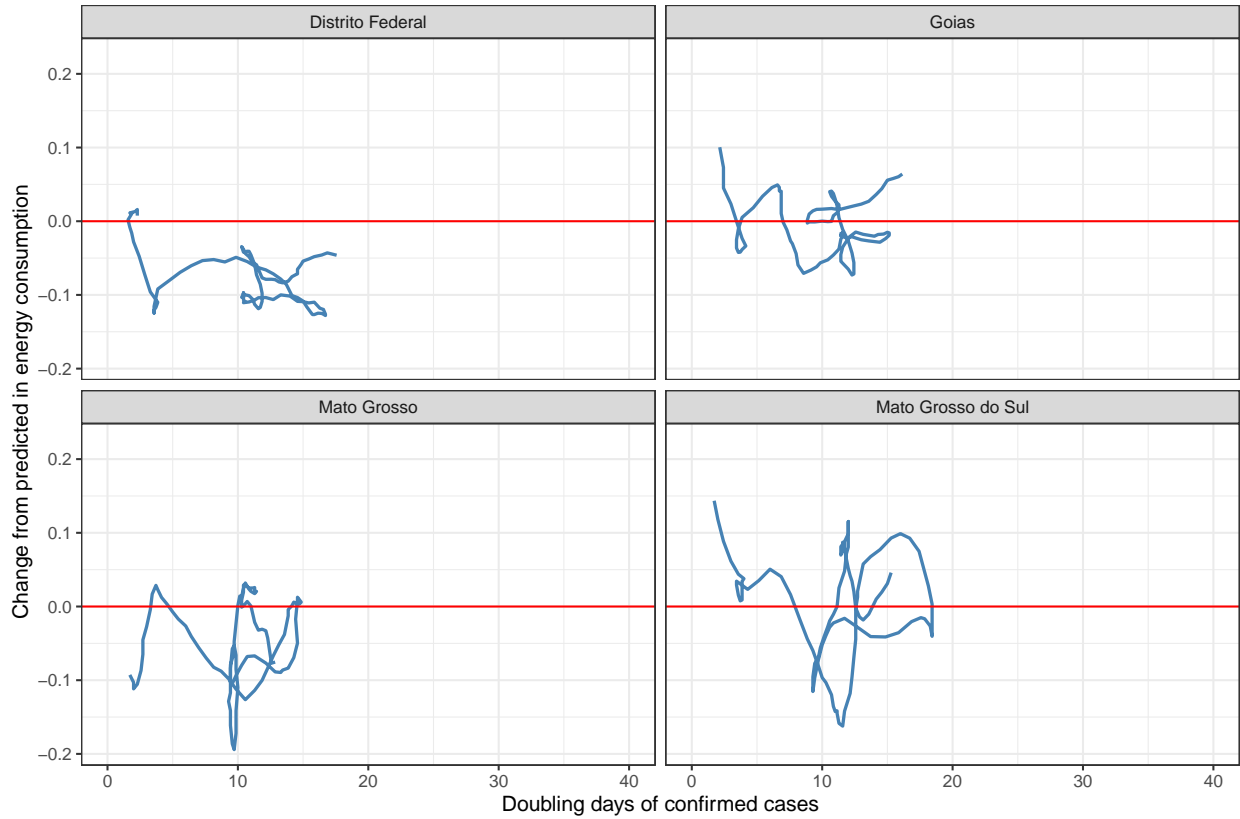
Região Sul



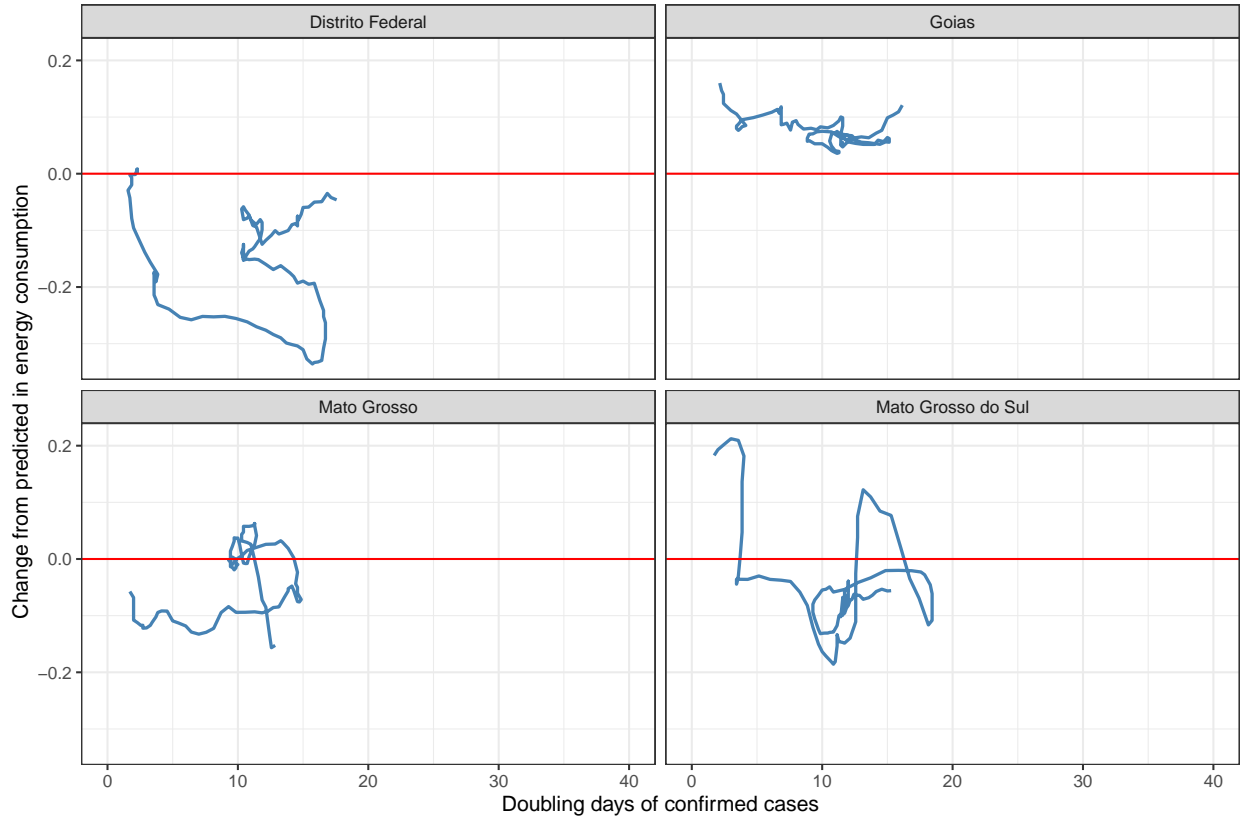
Somente ACL



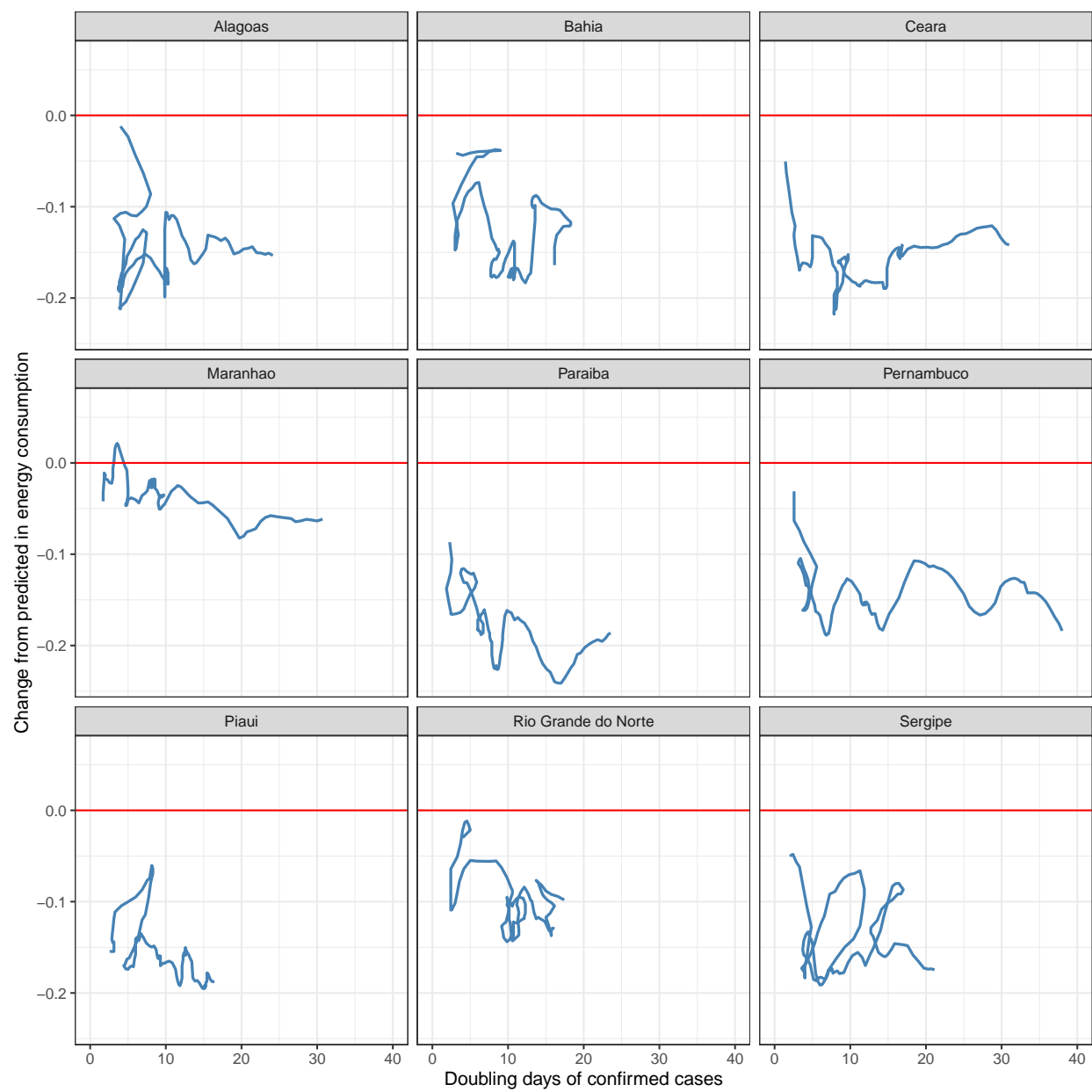
Região Centro-Oeste



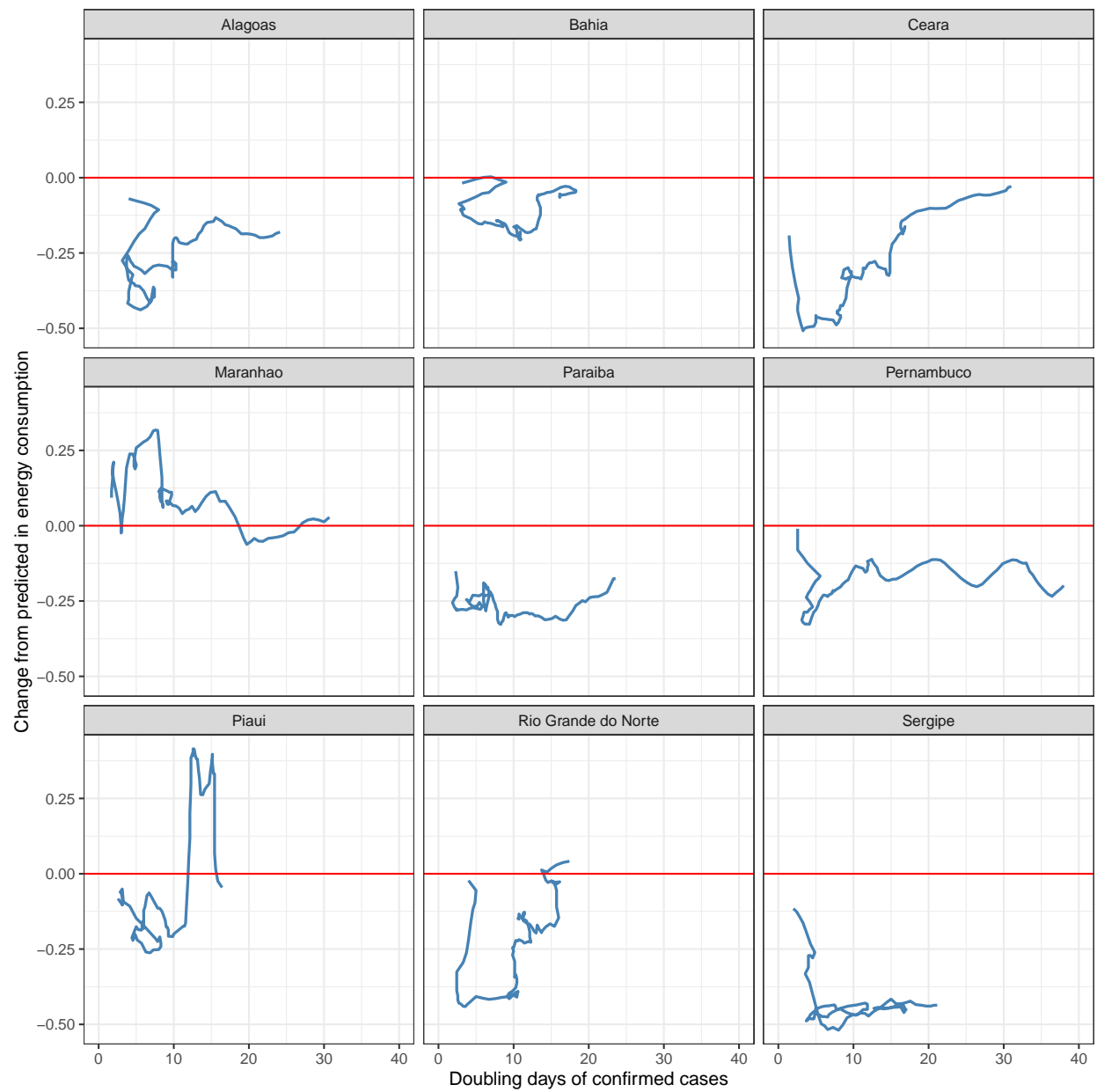
Somente ACL



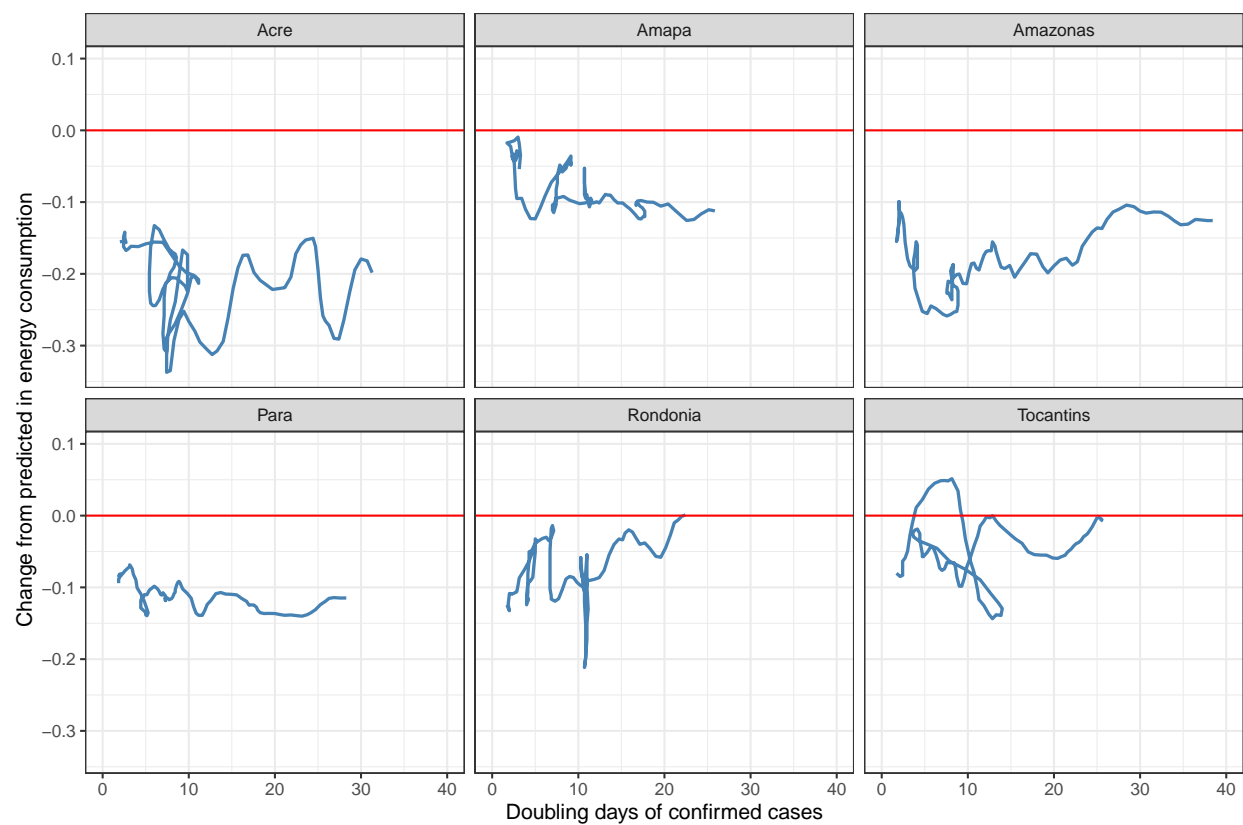
Região Nordeste



Somente ACL



Região Norte



Somente ACL

