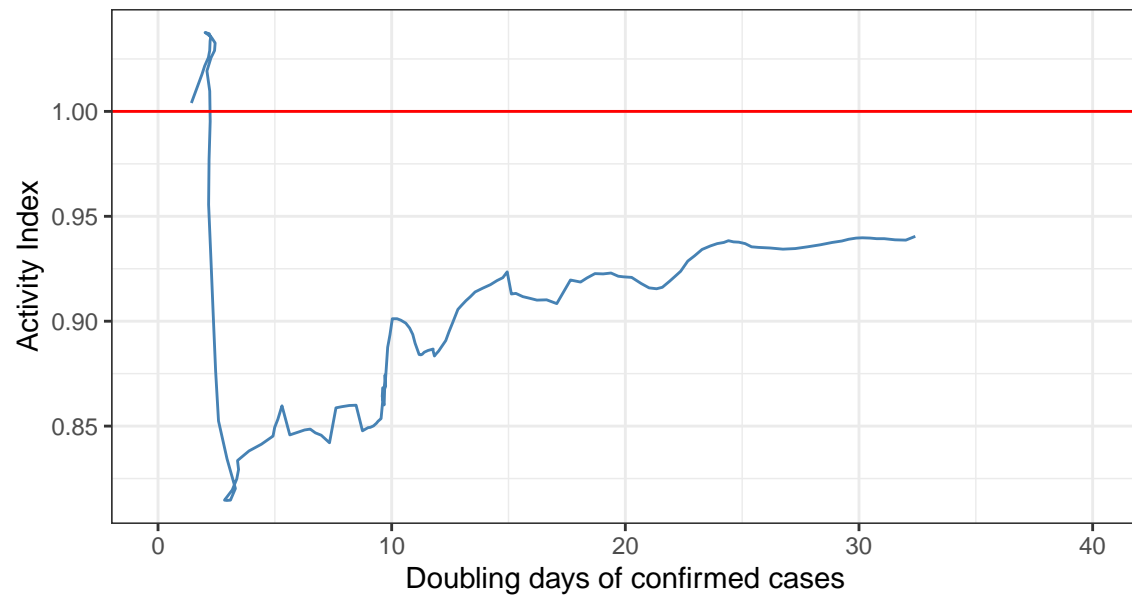


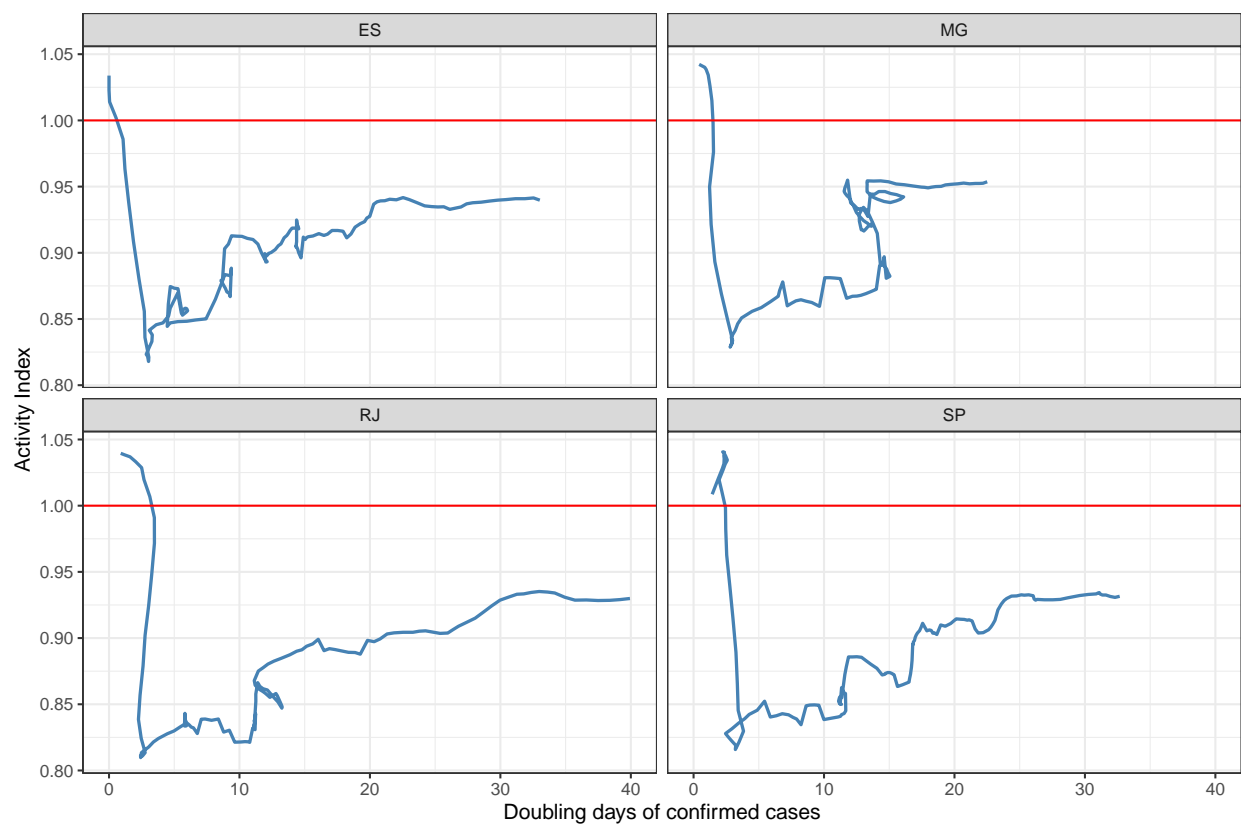
Atividade x COVID

Usando dados de mobilidade

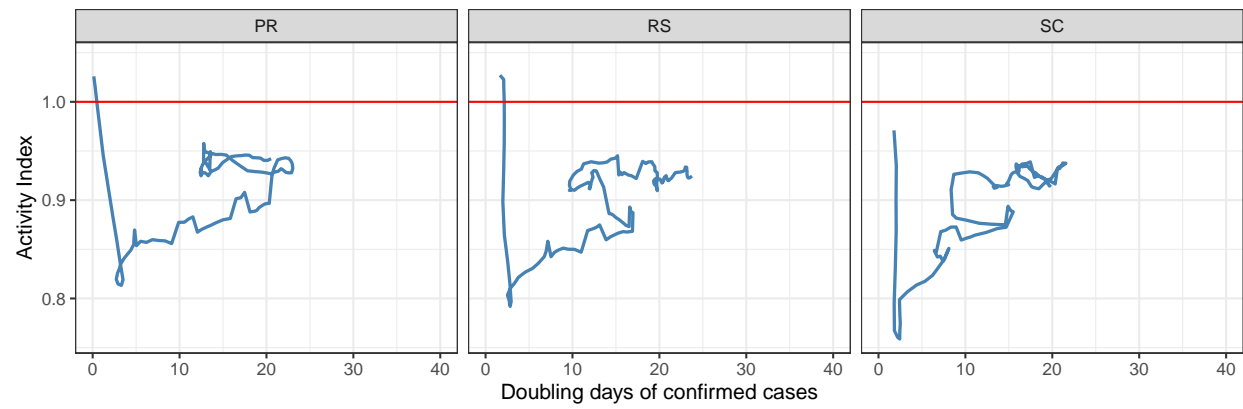
Brasil



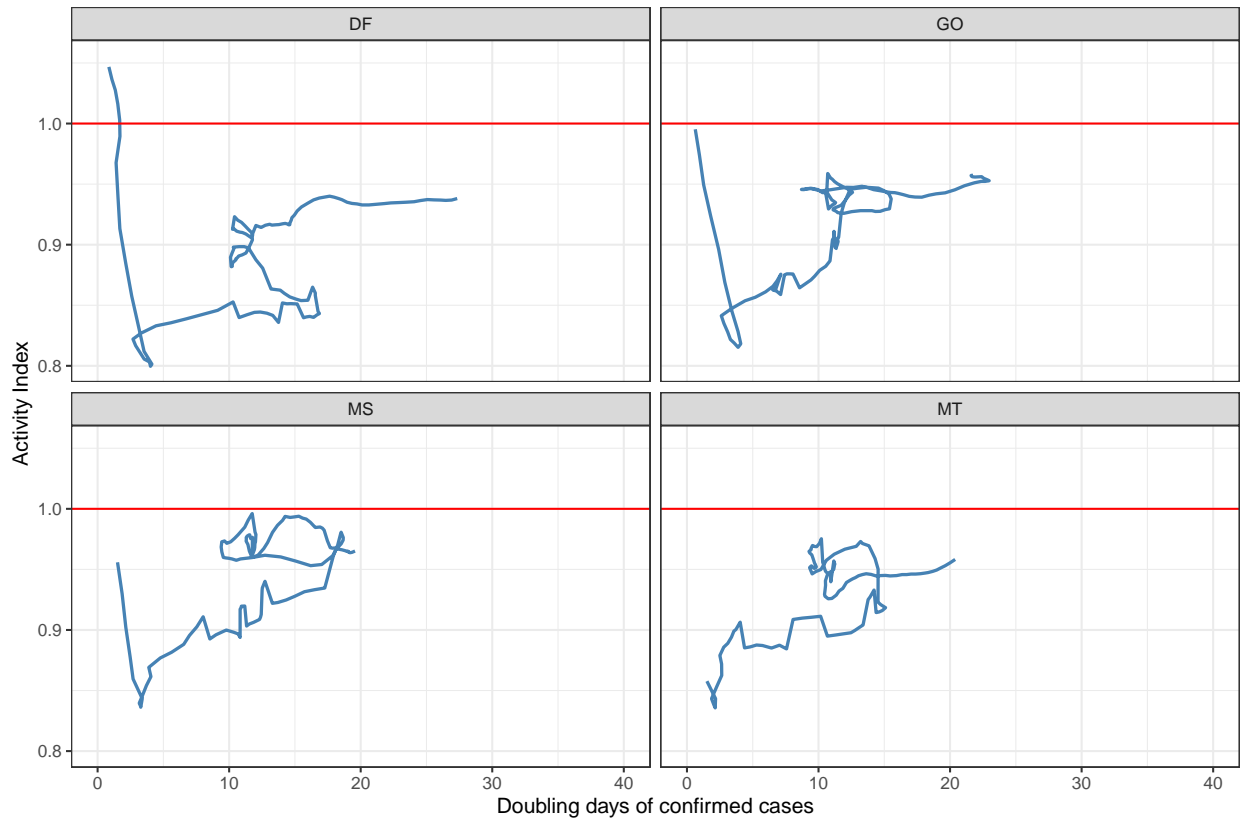
Região Sudeste



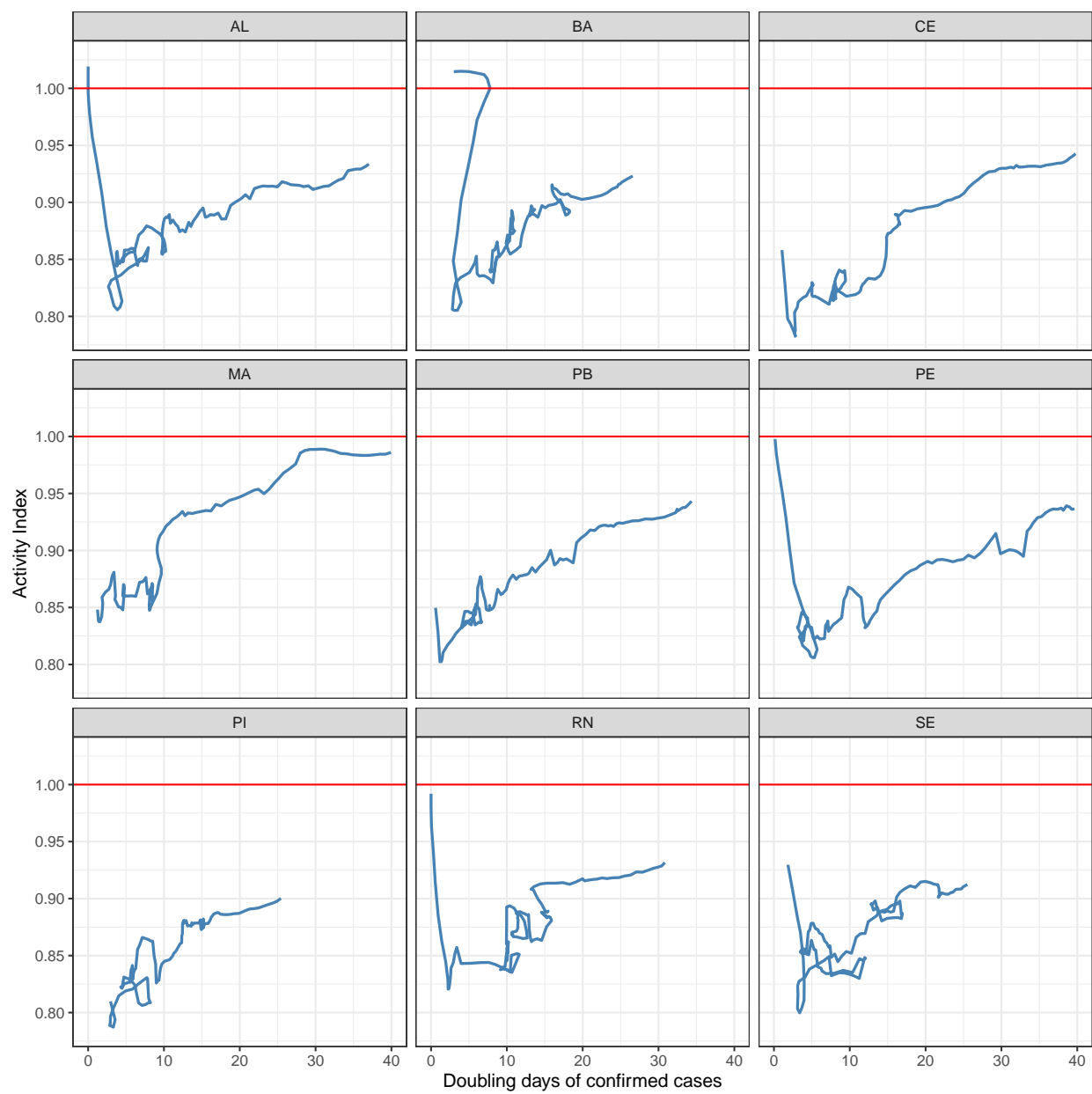
Região Sul



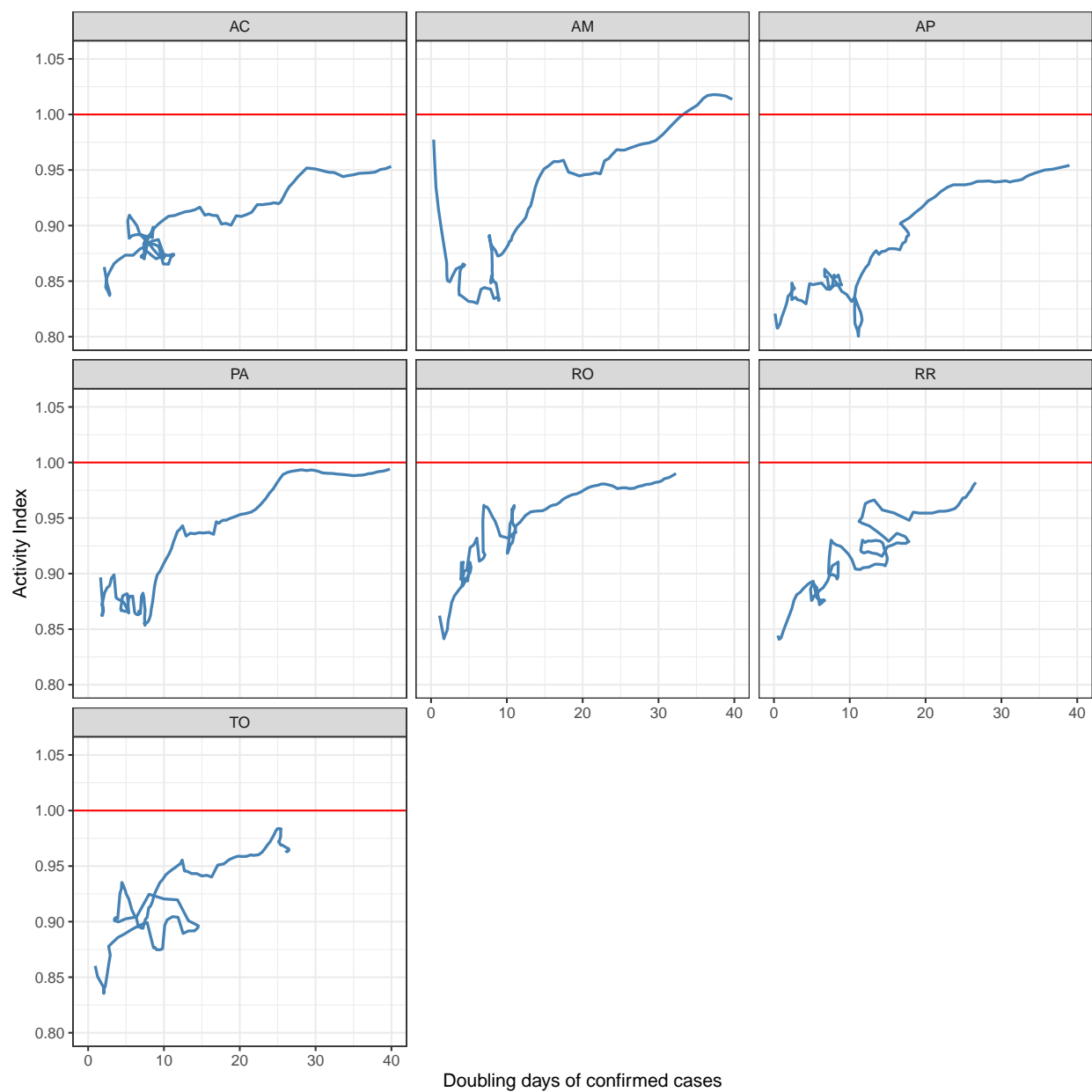
Região Centro-Oeste



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.

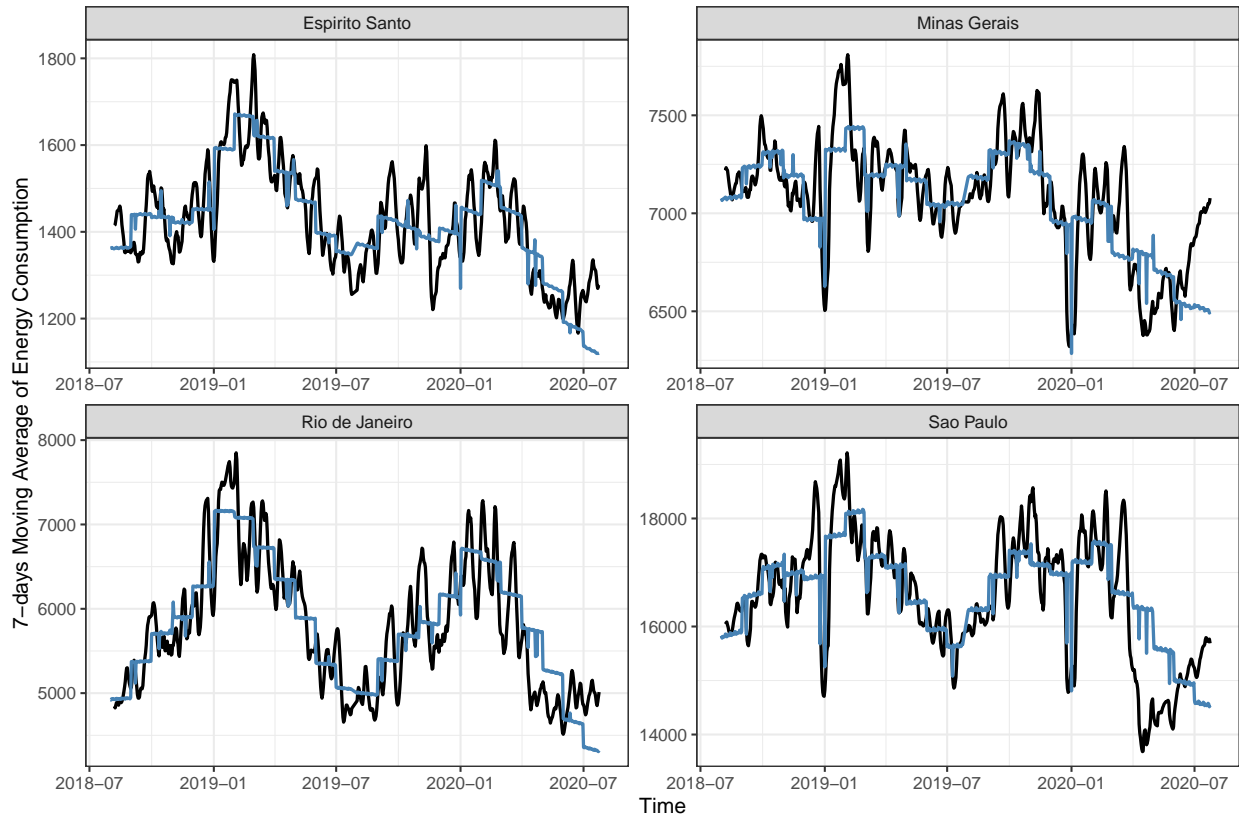
Para definir o contrafactual, fazemos uma regressão para cada estado, com os dados de 08/2018 até 02/2020, da seguinte forma:

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

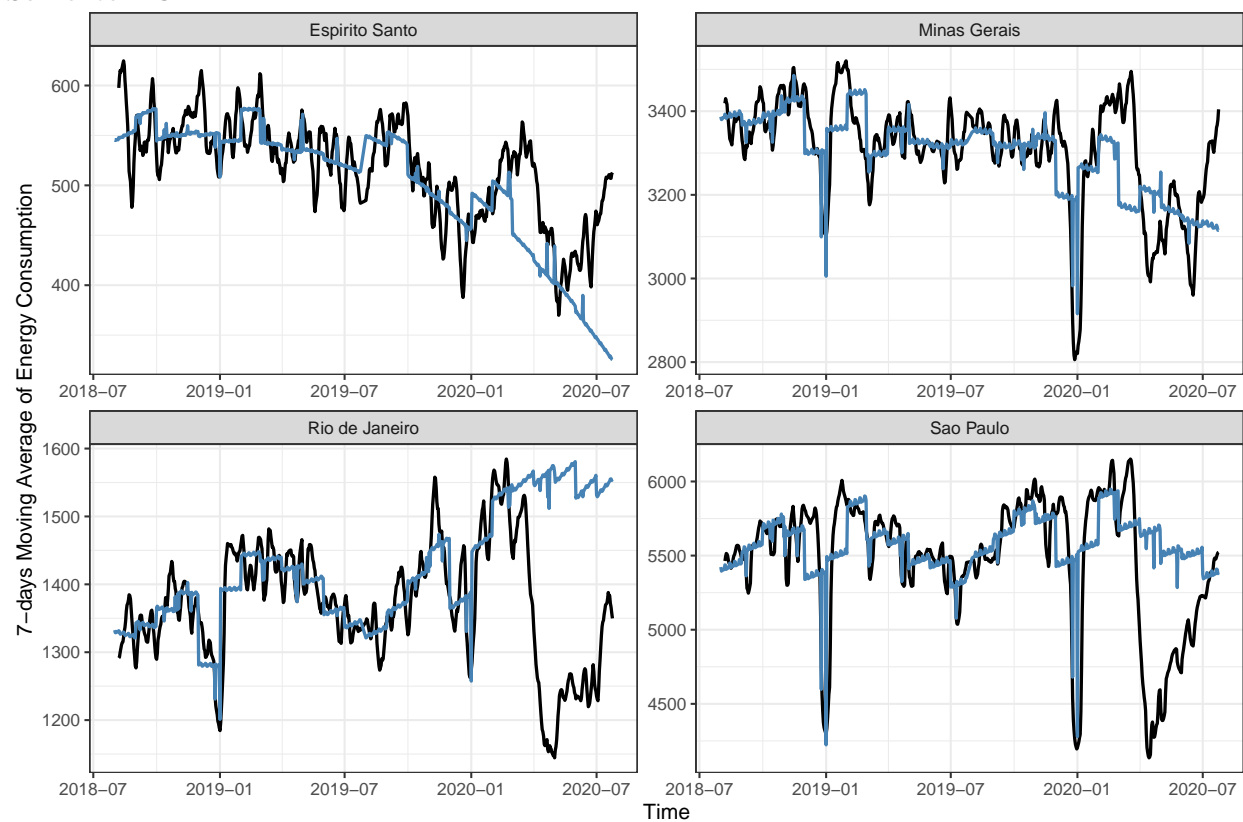
A partir de 1, usamos os valores preditos para os dados a partir de Março de 2020 como o esperado para o consumo de energia. A diferença percentual mostrada nos gráficos abaixo se baseia nesses valores.

Testando o fit

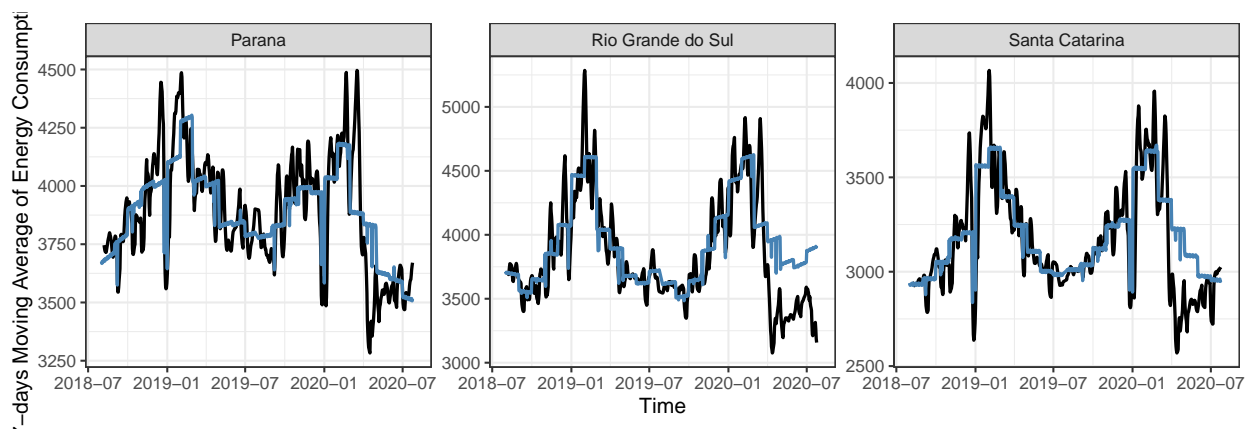
Região Sudeste



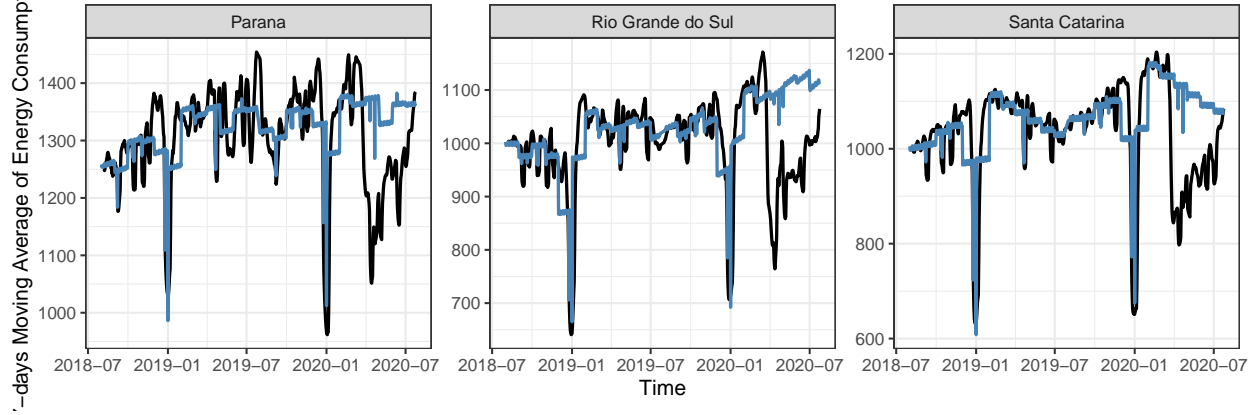
Somente ACL



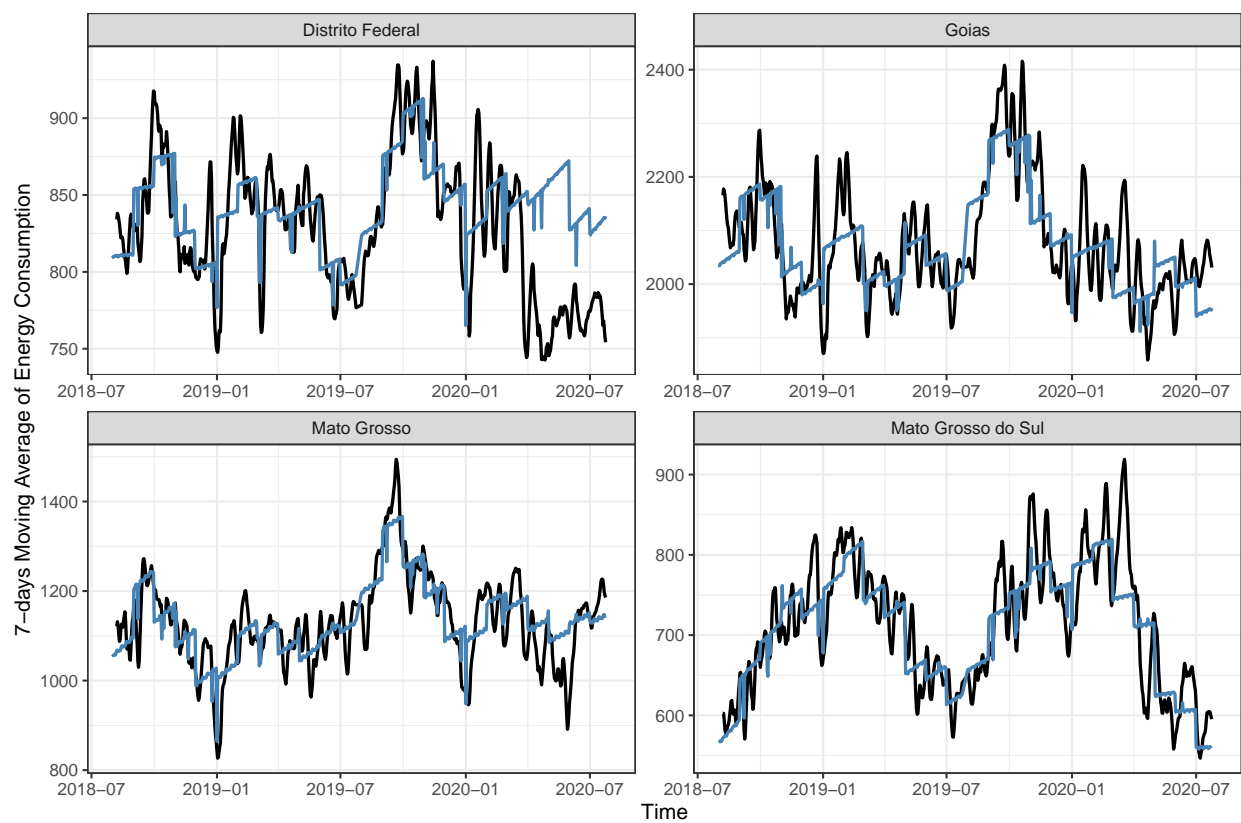
Região Sul



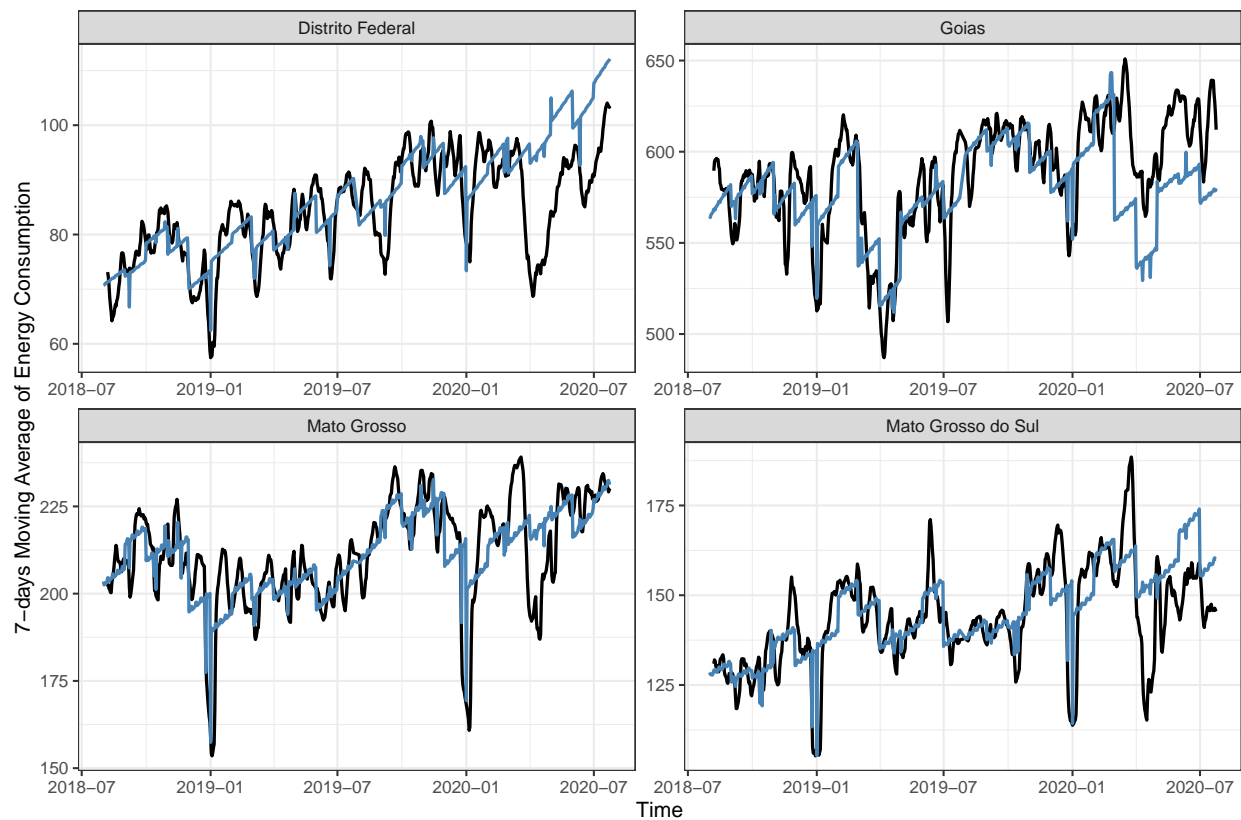
Somente ACL



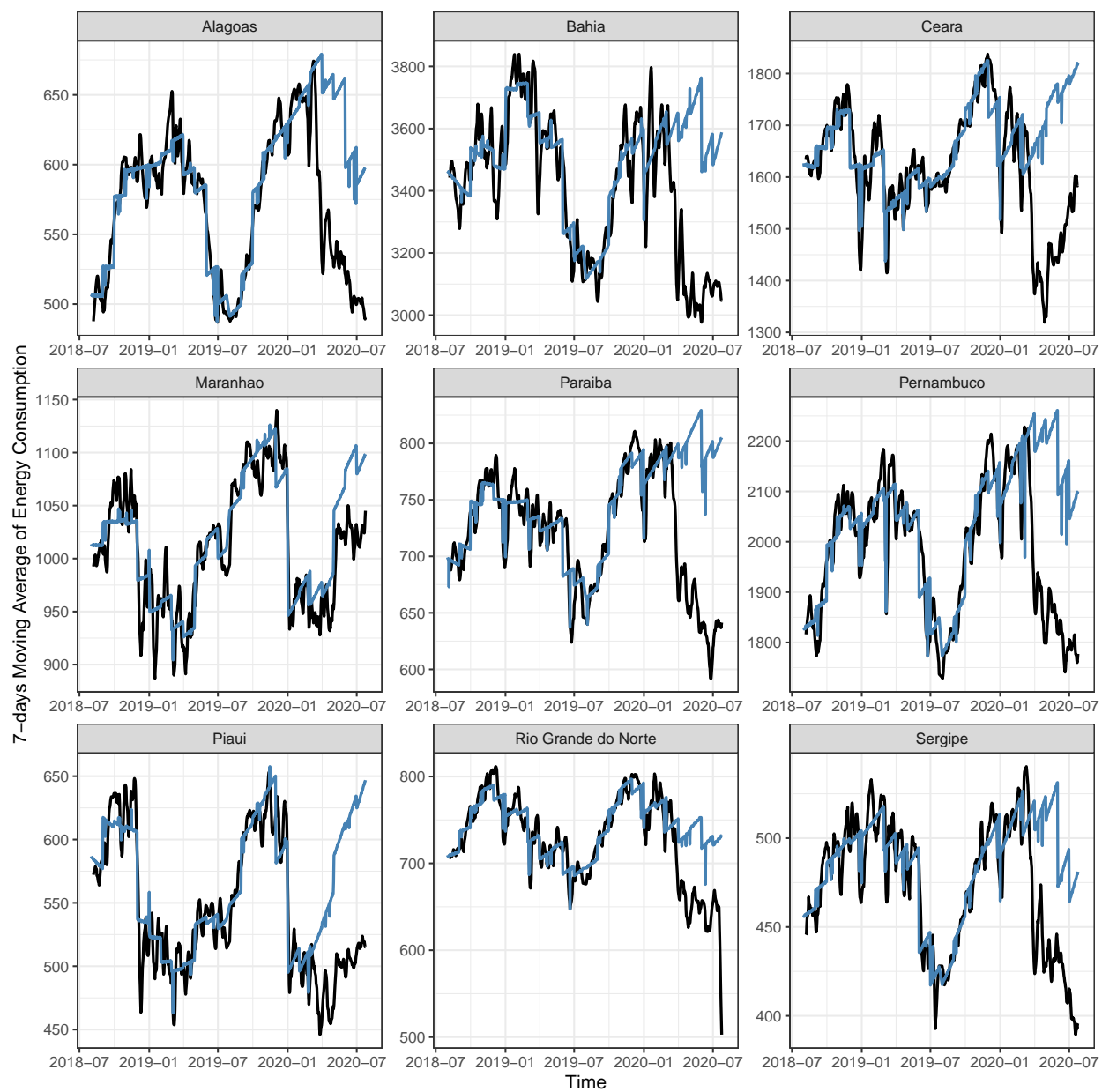
Região Centro-Oeste



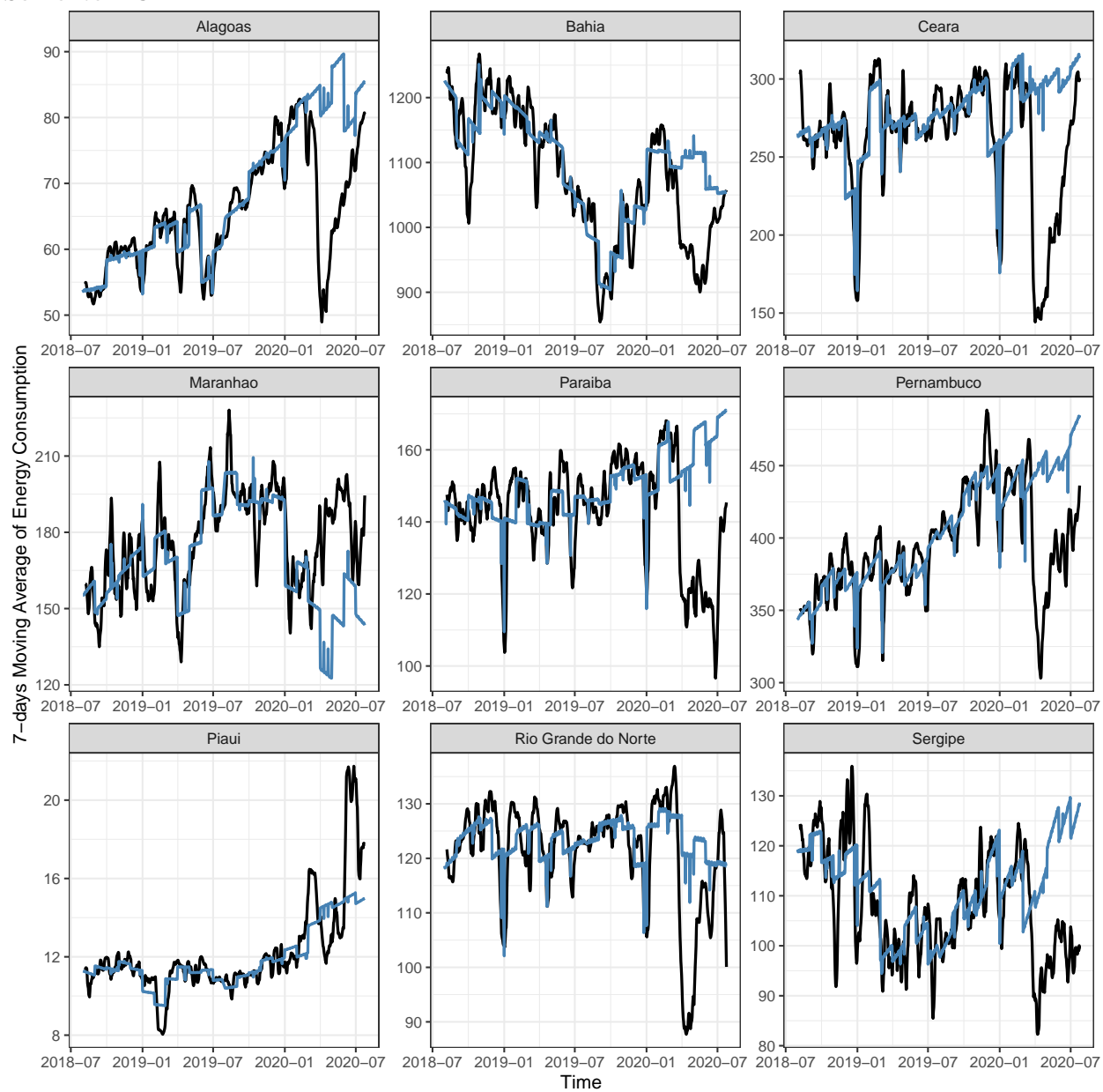
Somente ACL



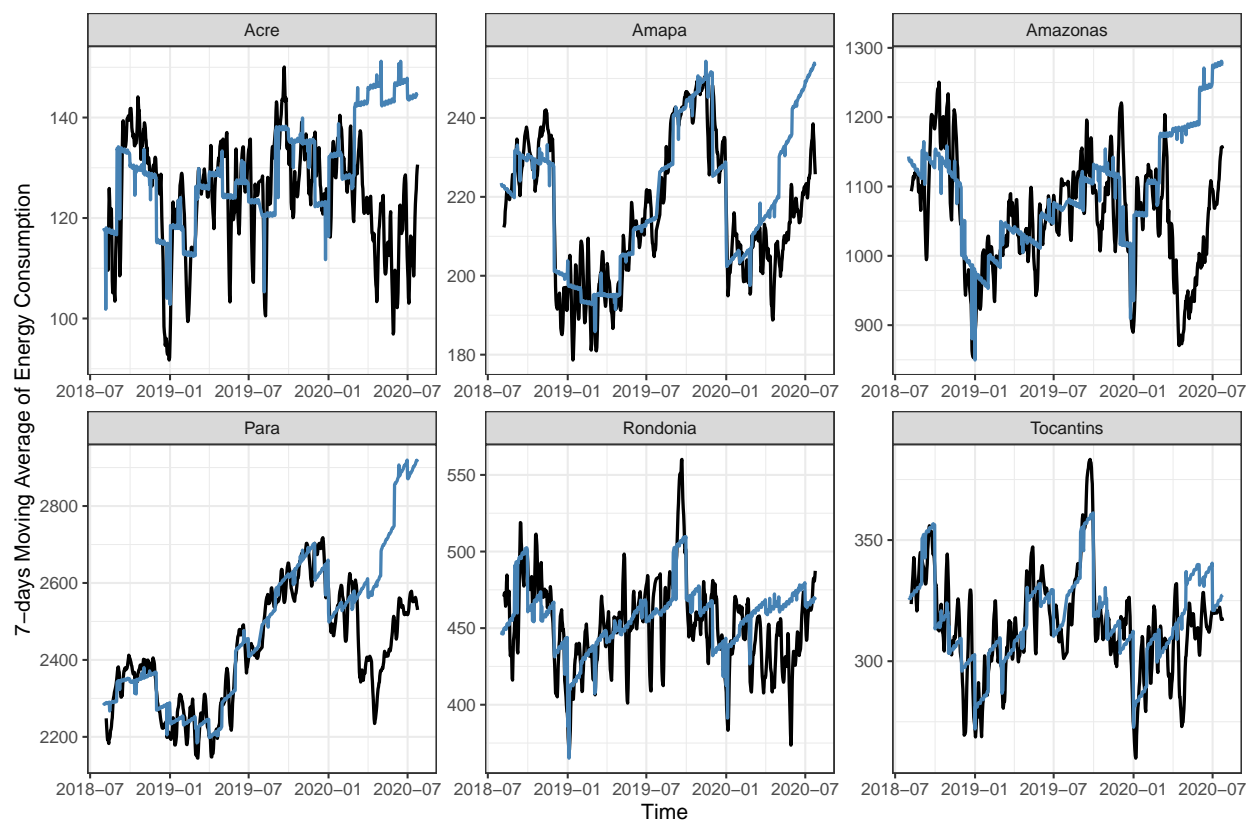
Região Nordeste



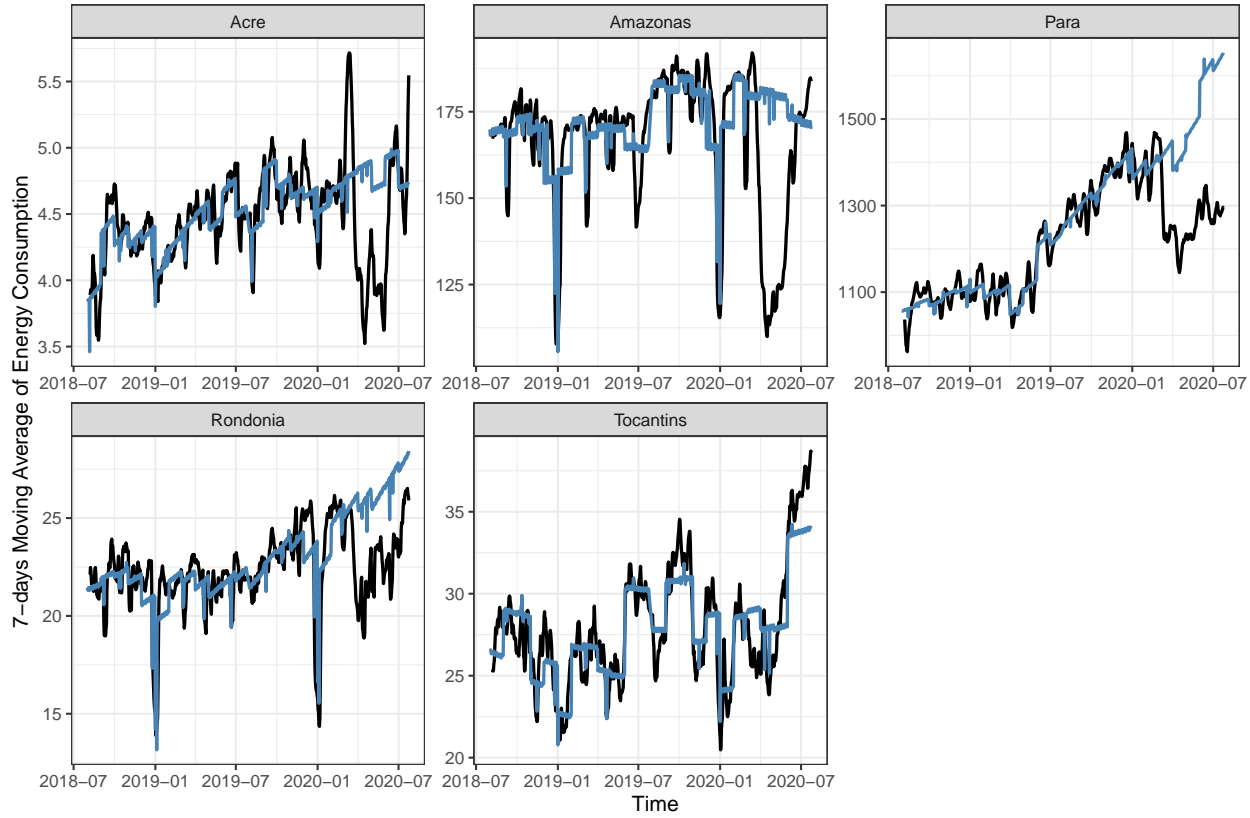
Somente ACL



Região Norte

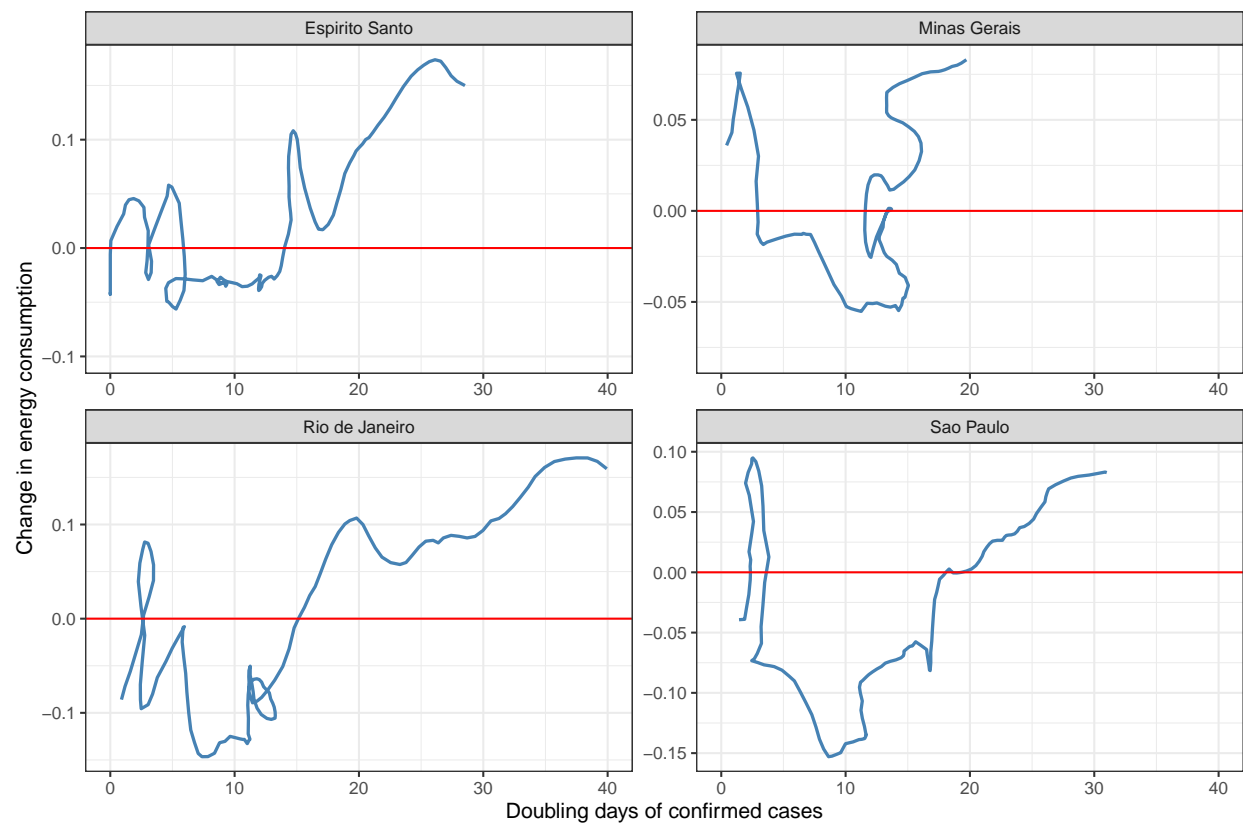


Somente ACL

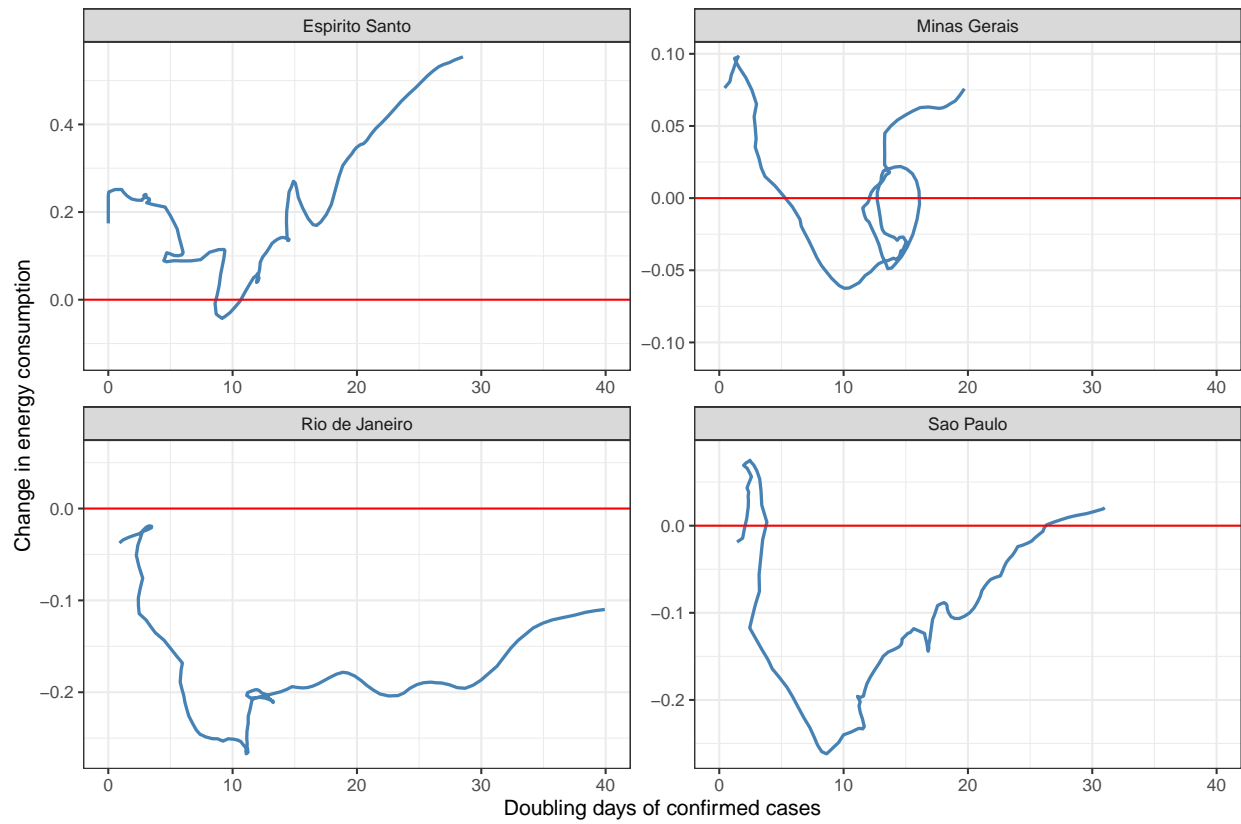


Mudança para o previsto

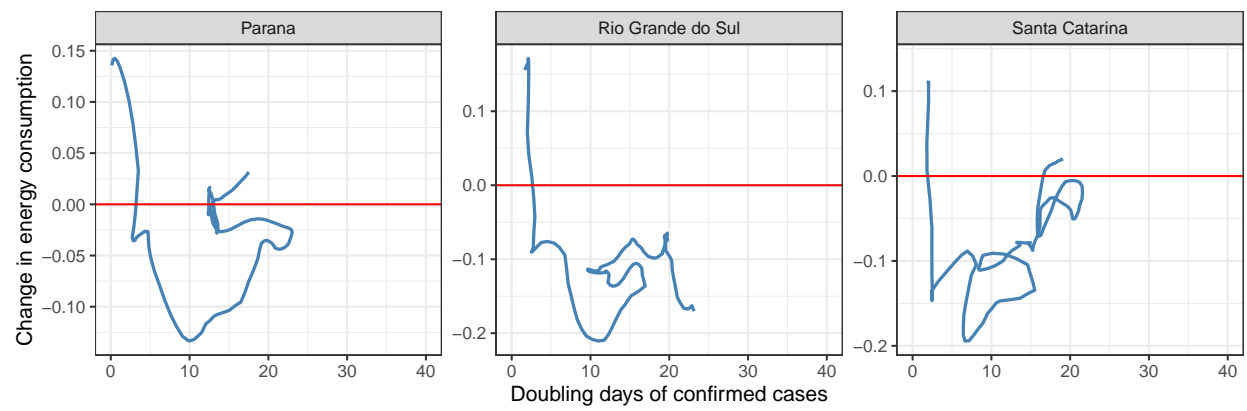
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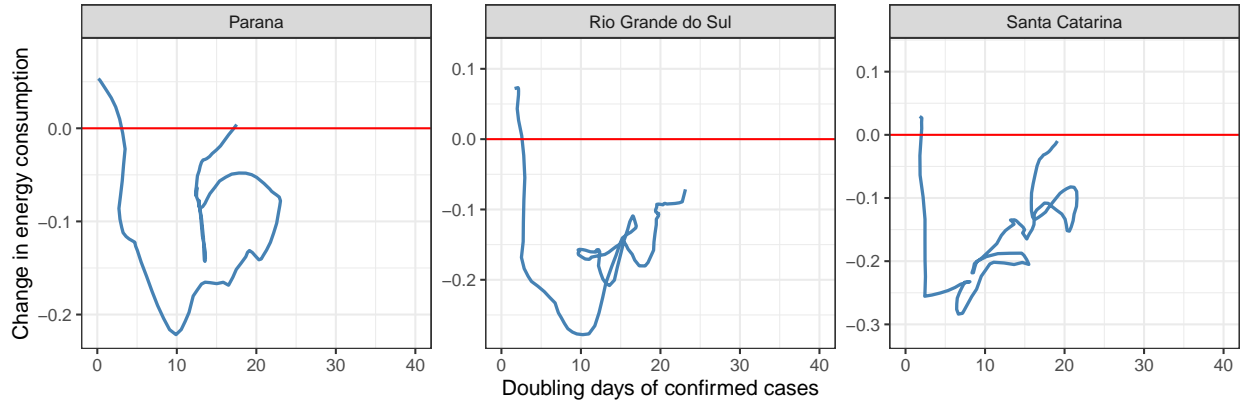
Somente ACL



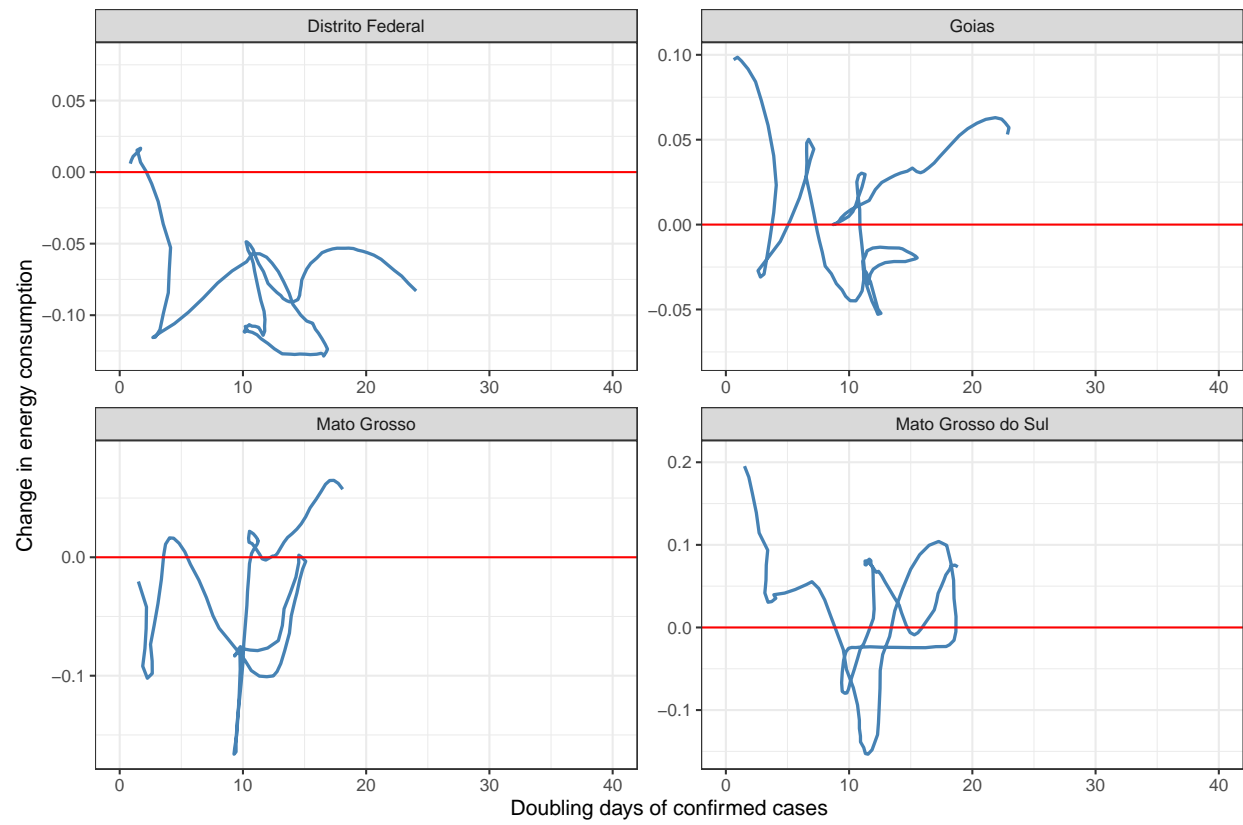
Região Sul



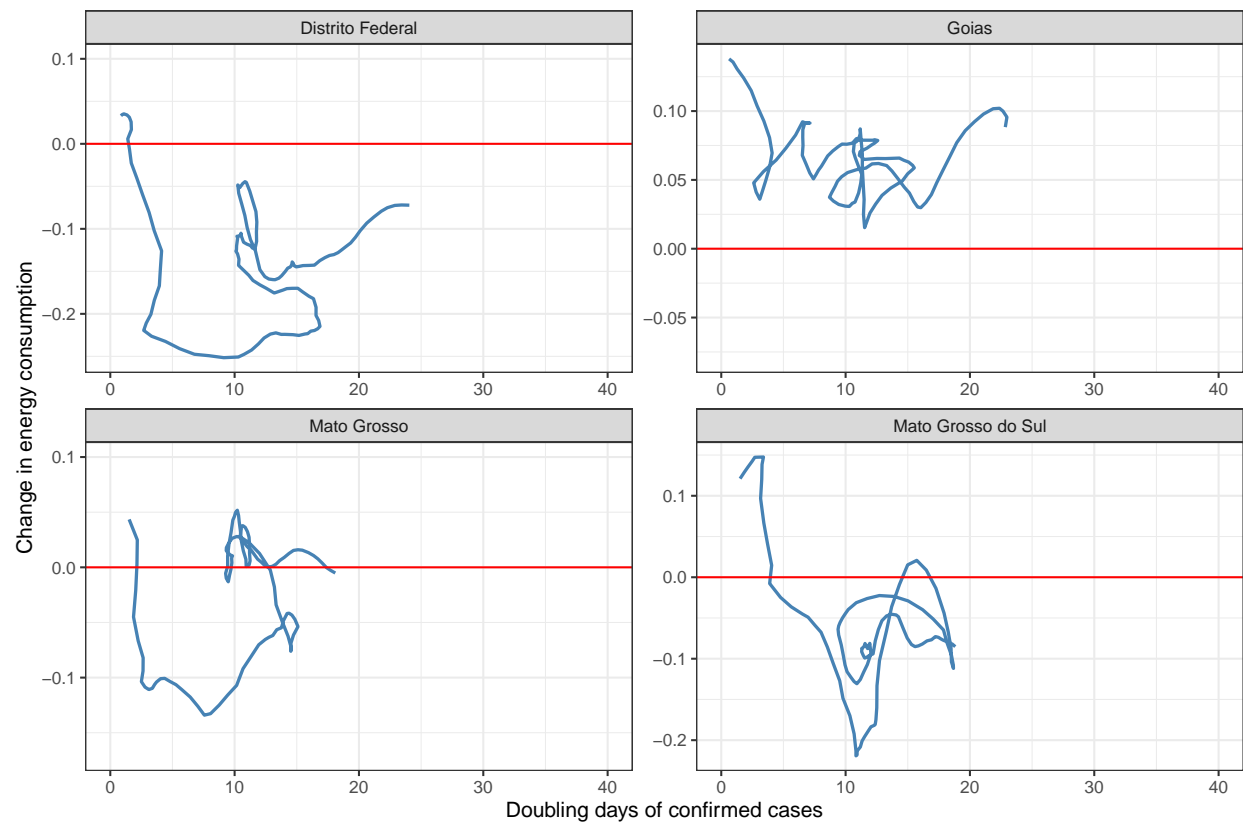
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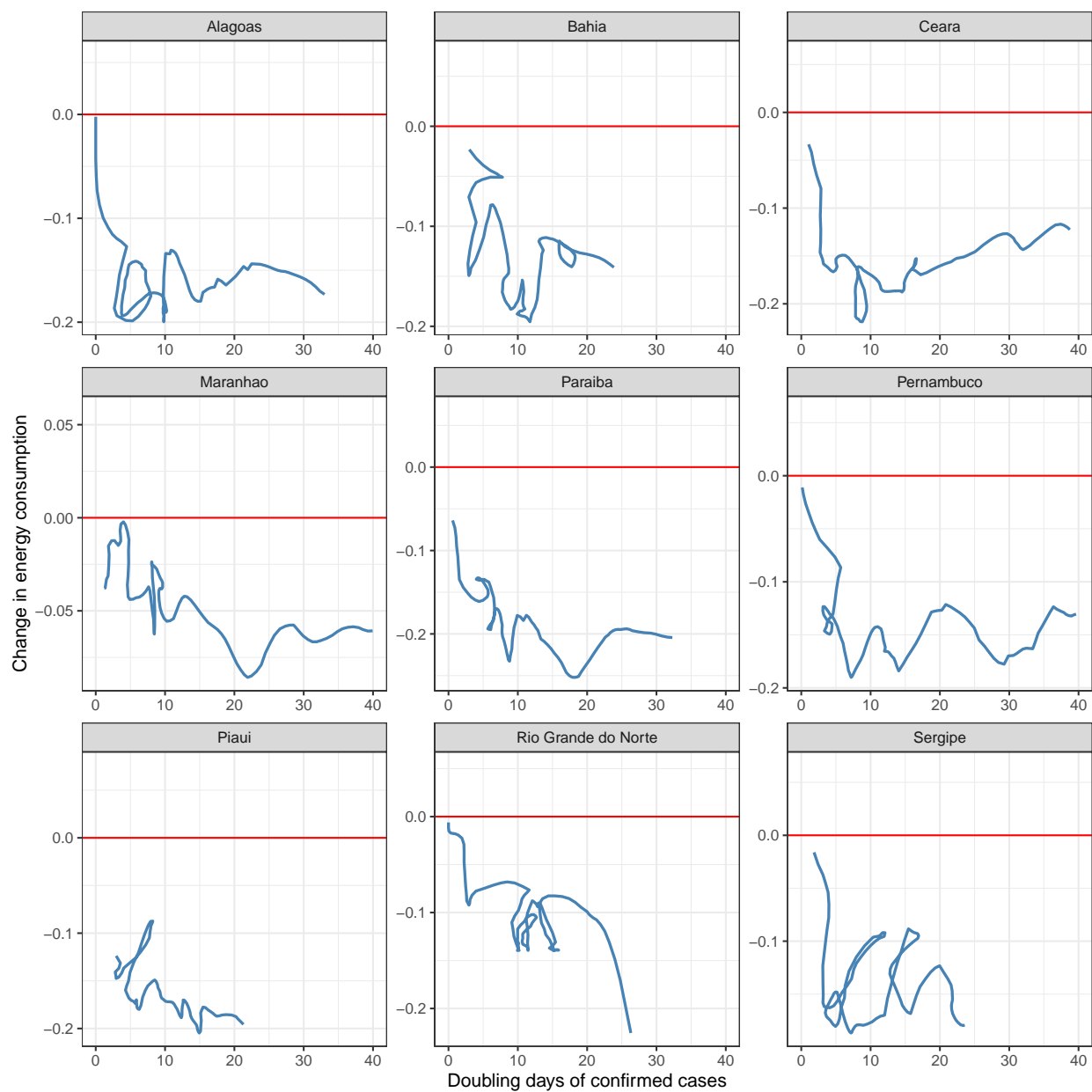
Região Centro-Oeste



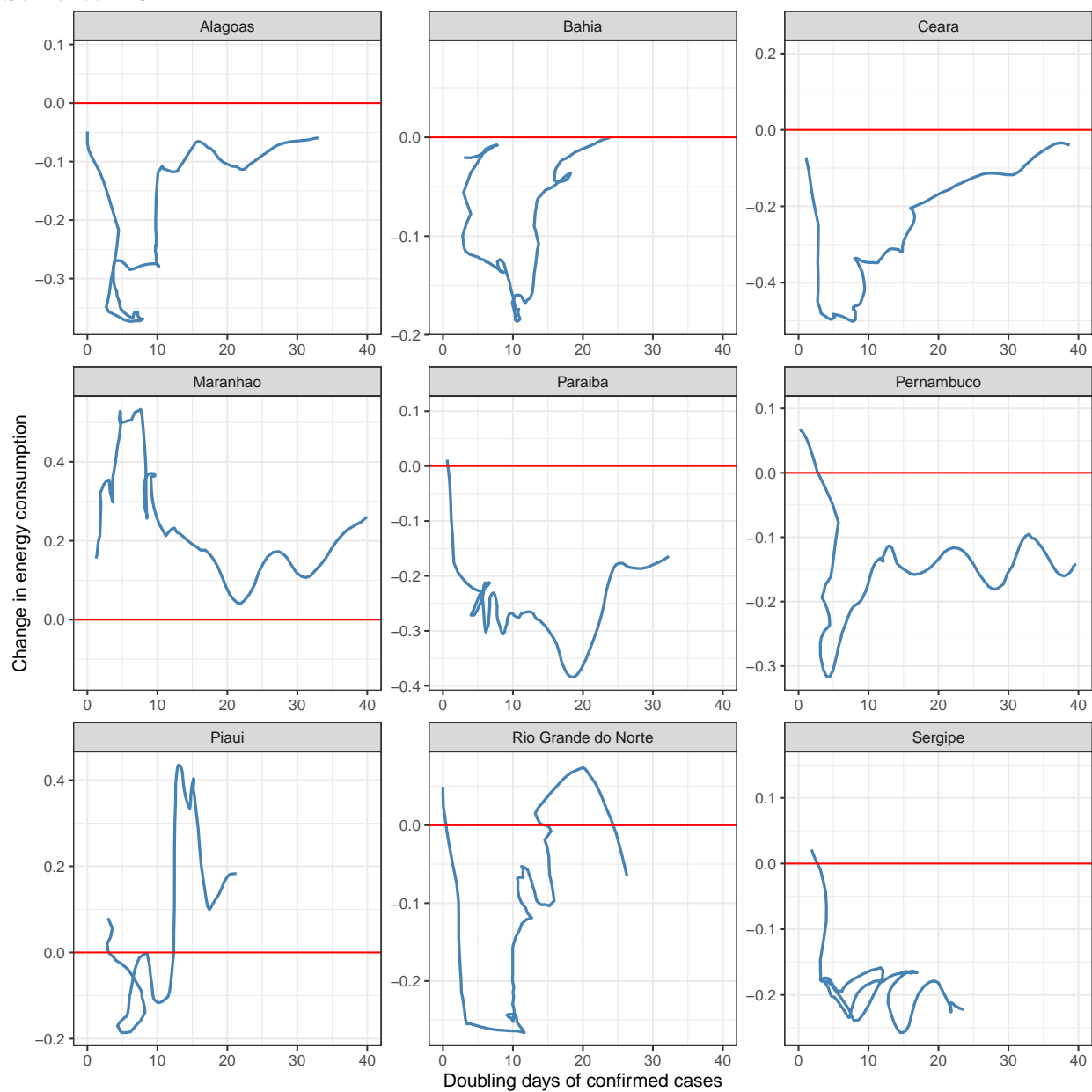
Somente ACL



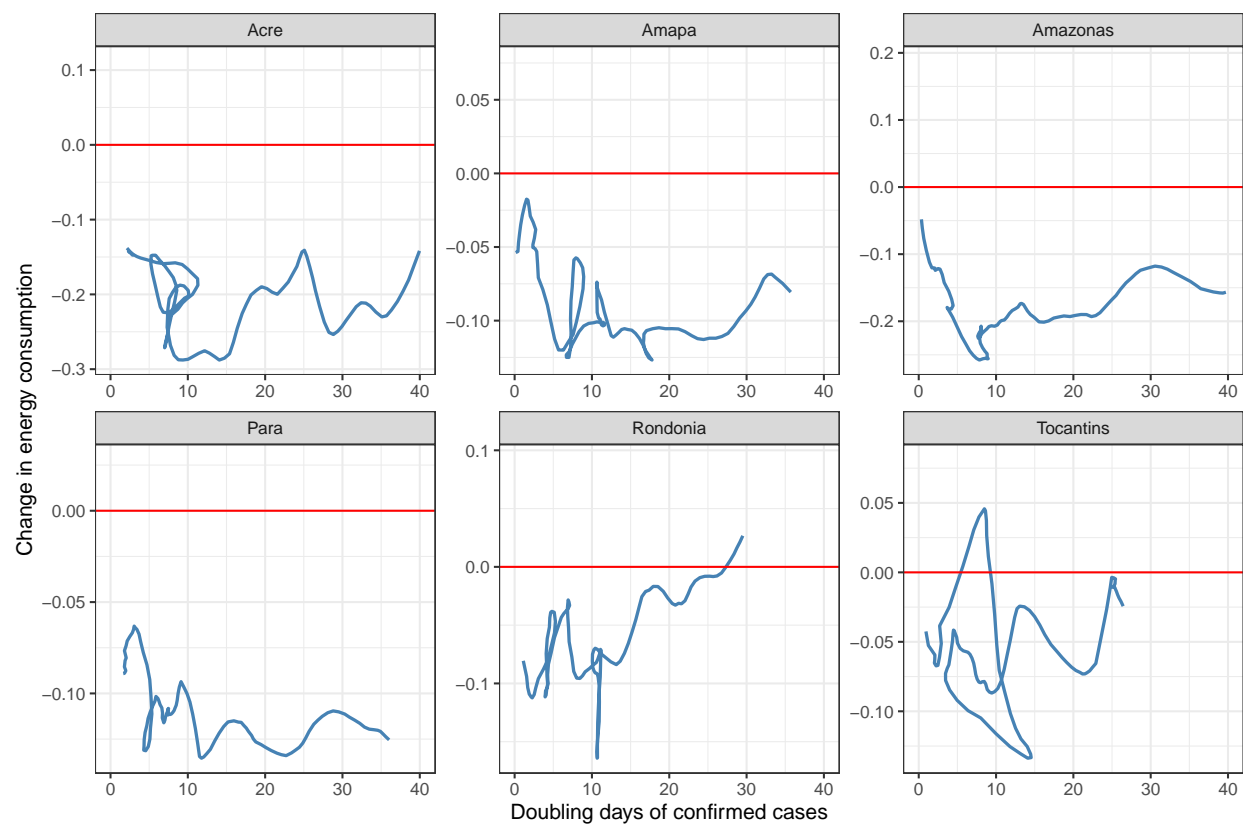
Região Nordeste



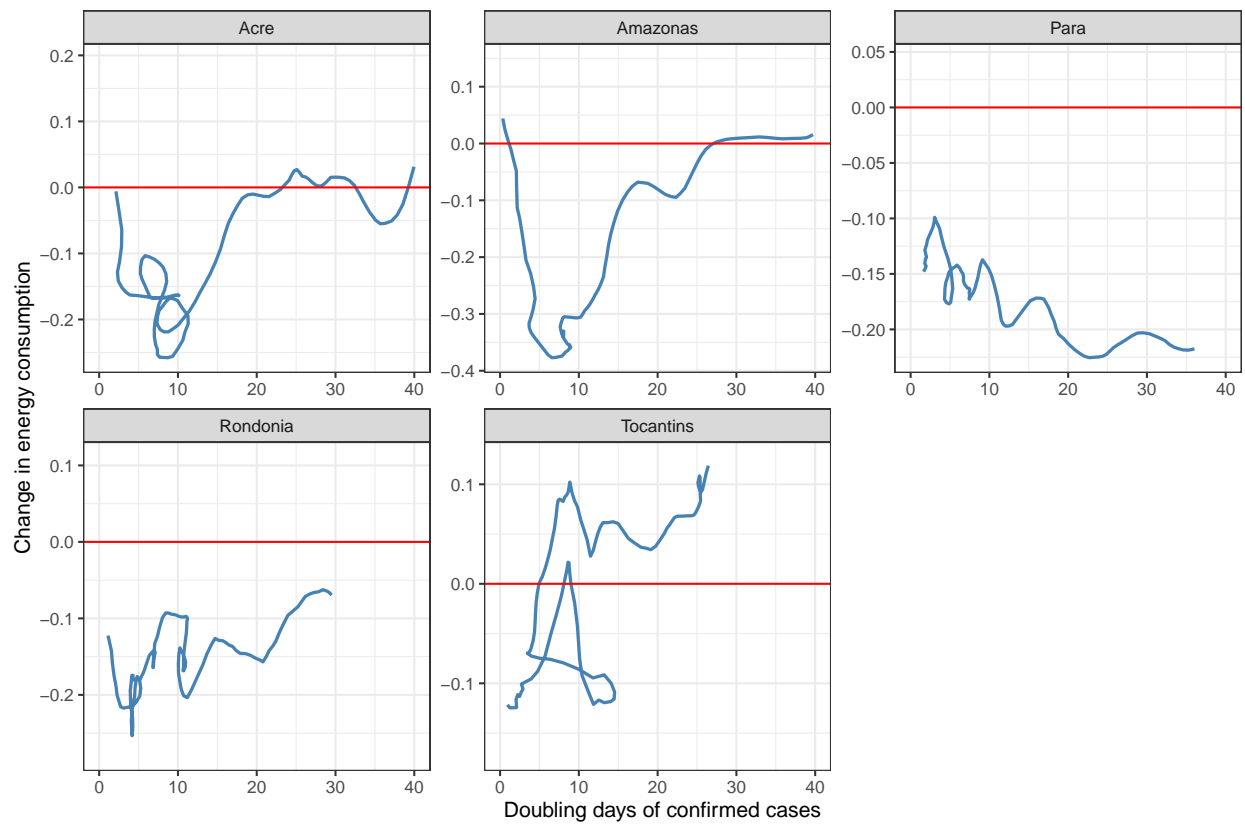
Somente ACL



Região Norte

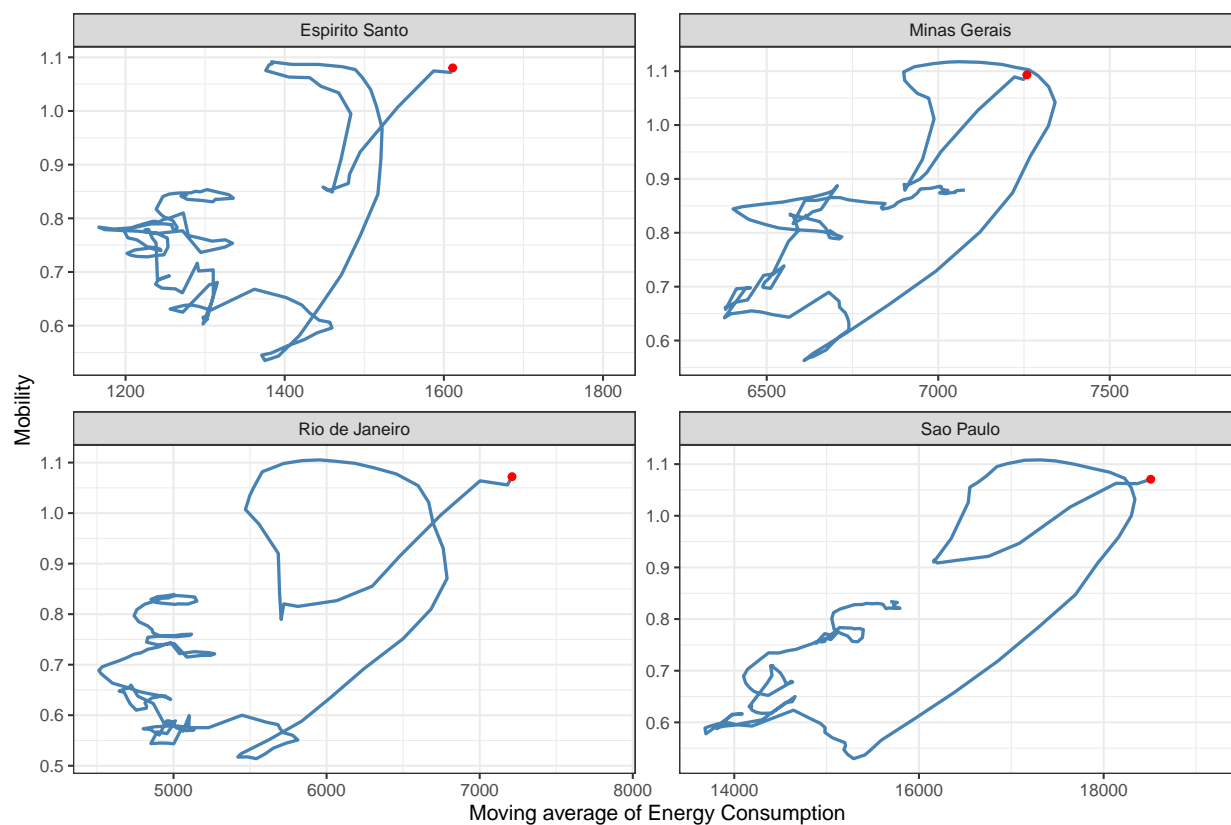


Somente ACL

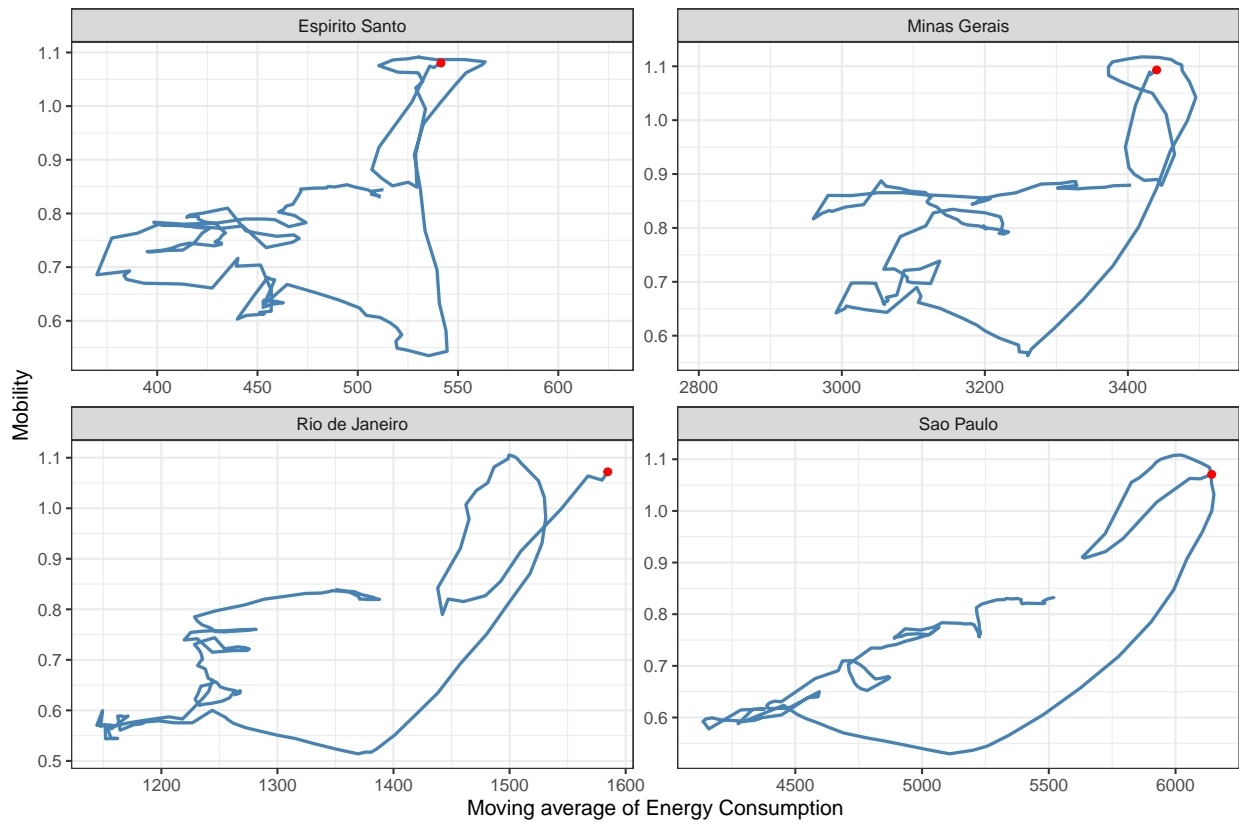


Relação Mobilidade x Consumo de Energia

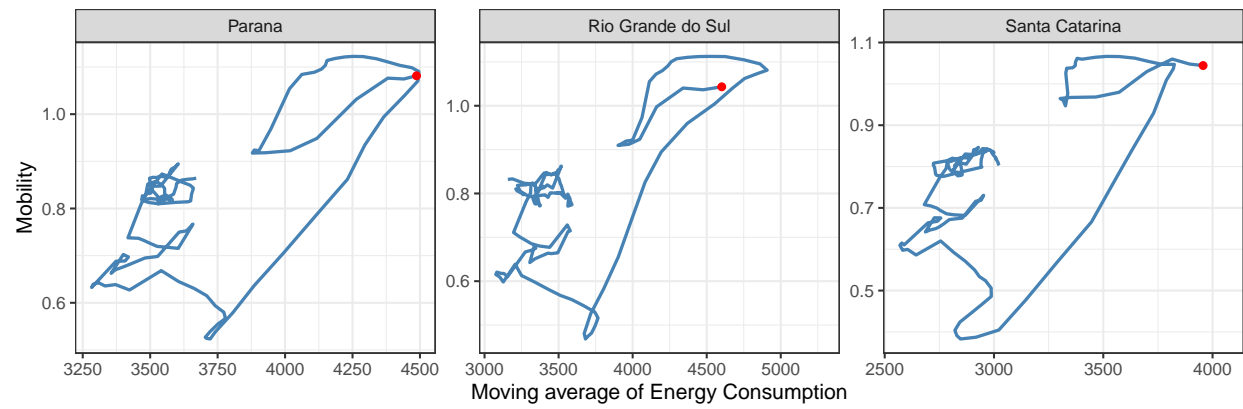
Região Sudeste



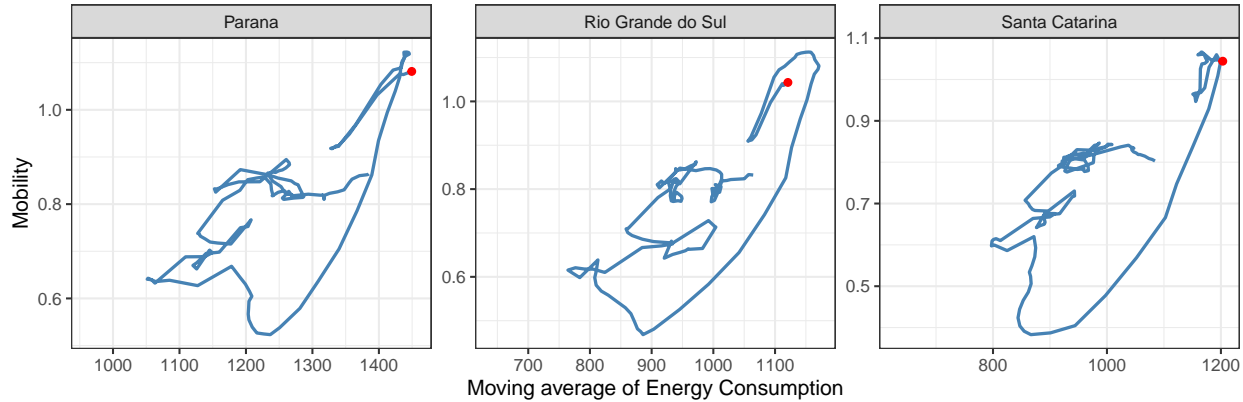
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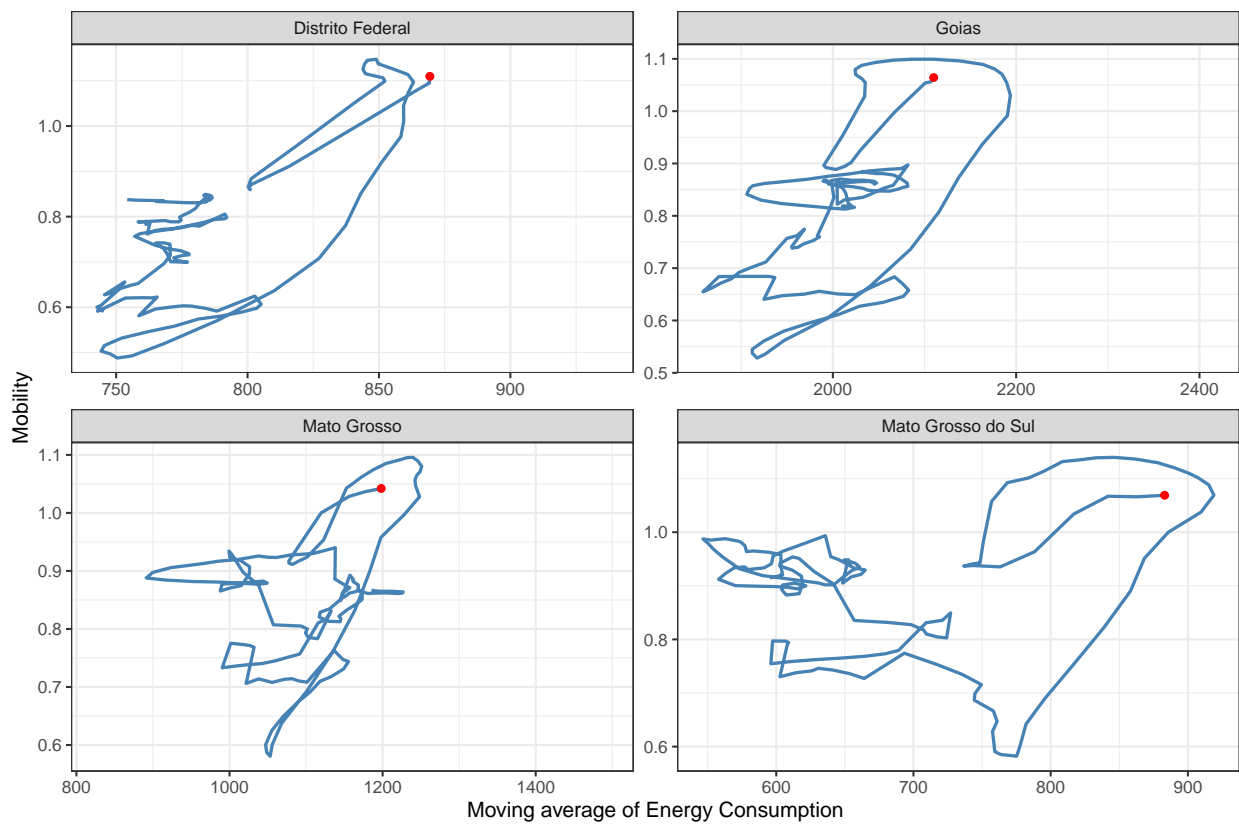
Região Sul



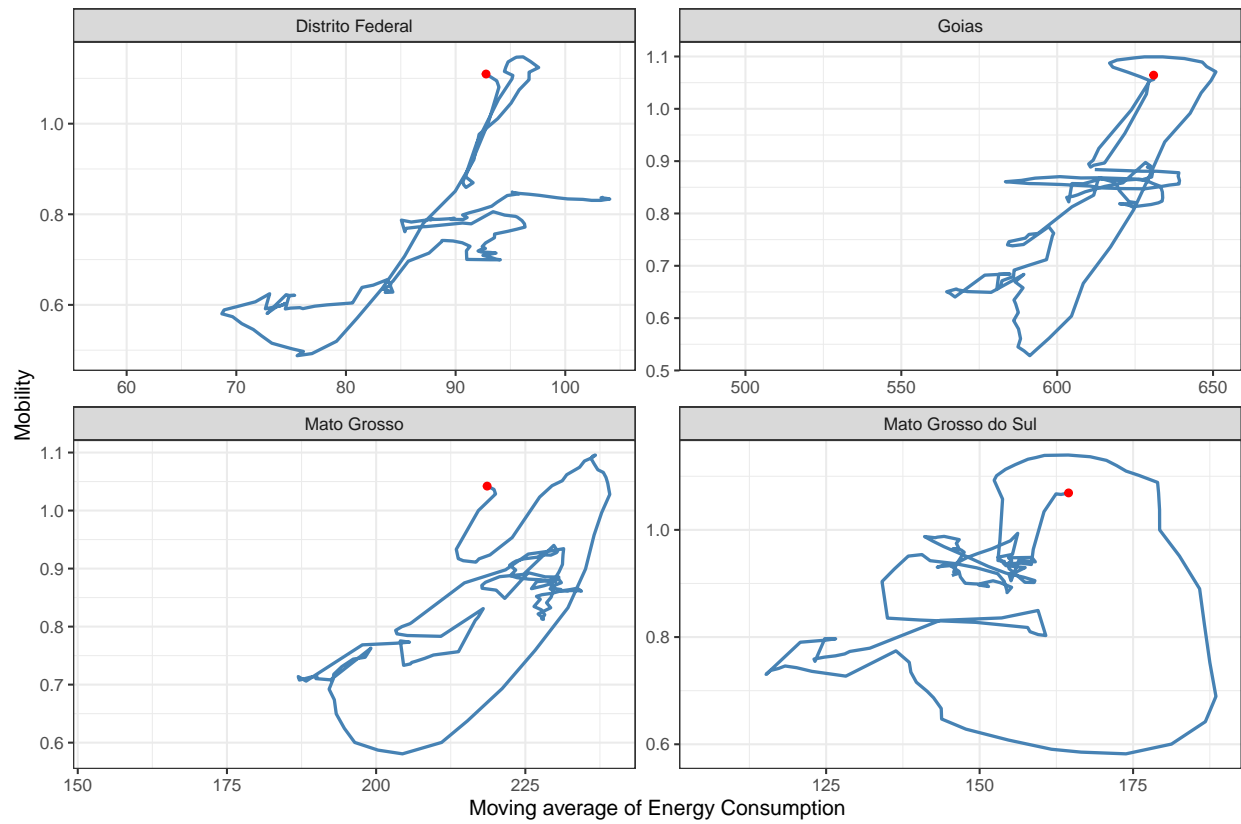
Somente ACL



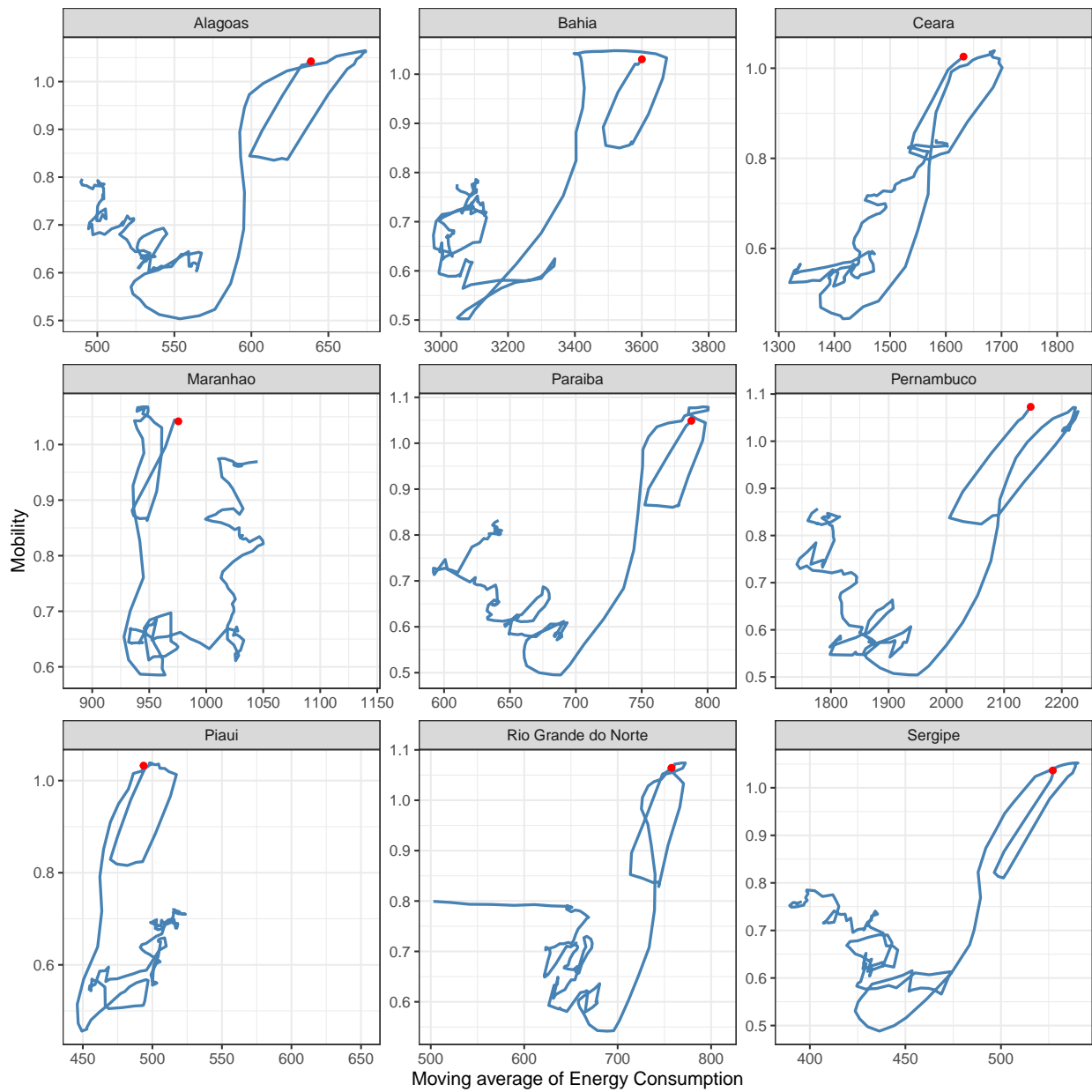
Região Centro-Oeste



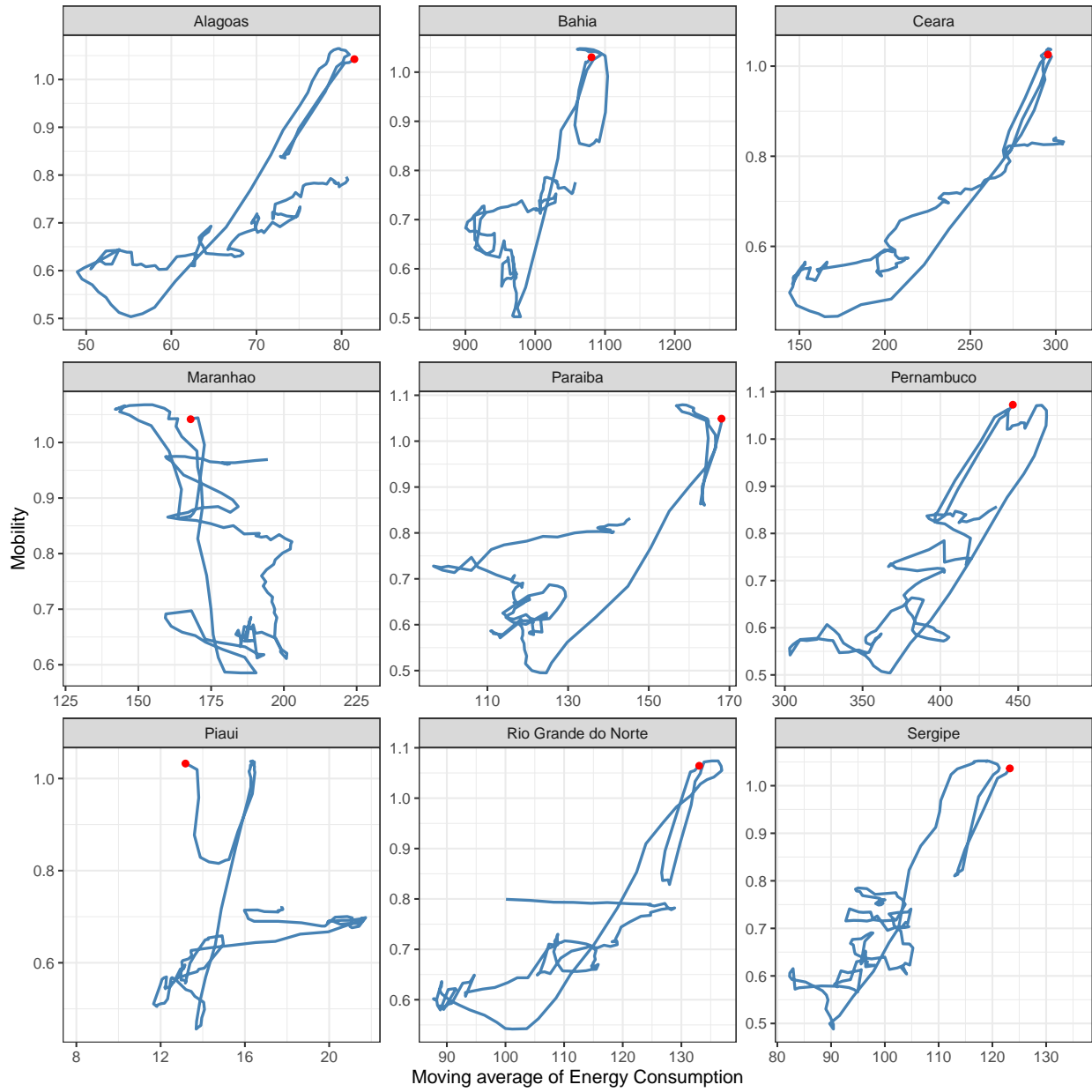
Somente ACL



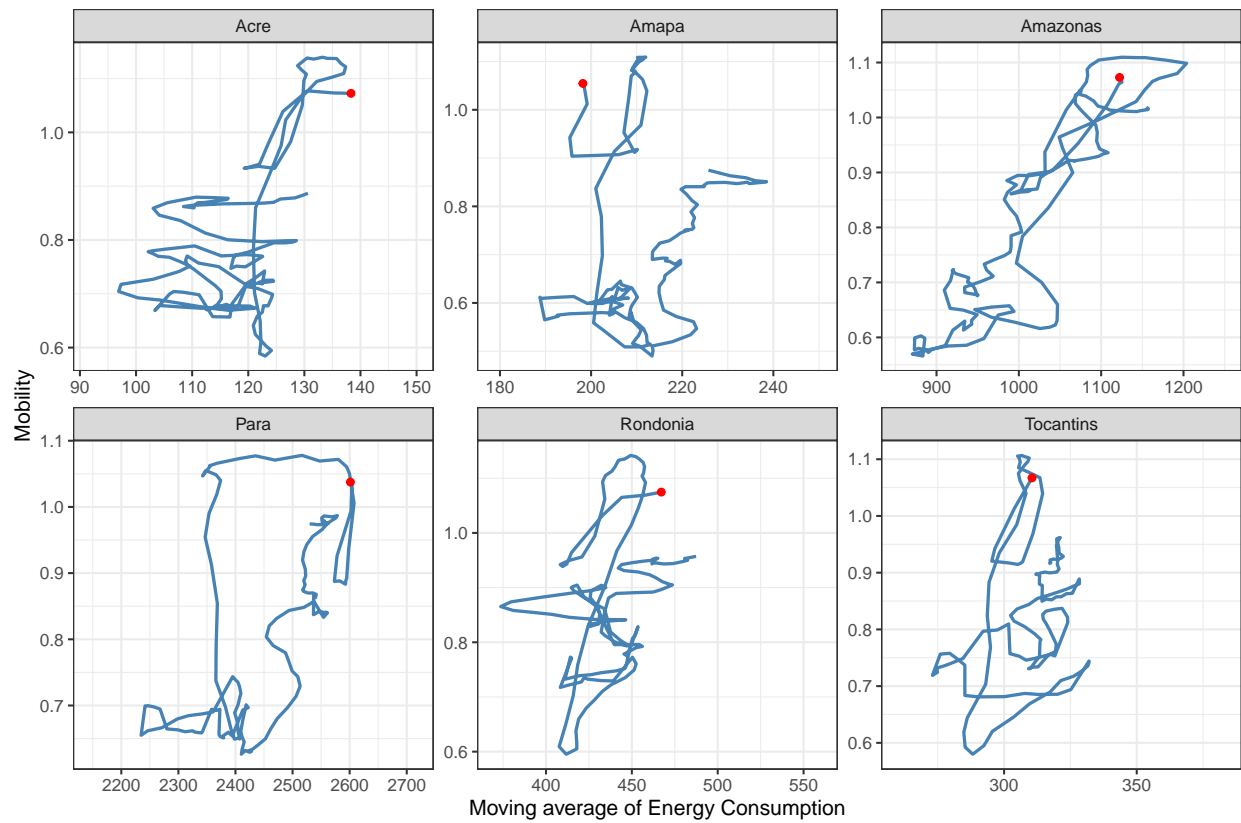
Região Nordeste



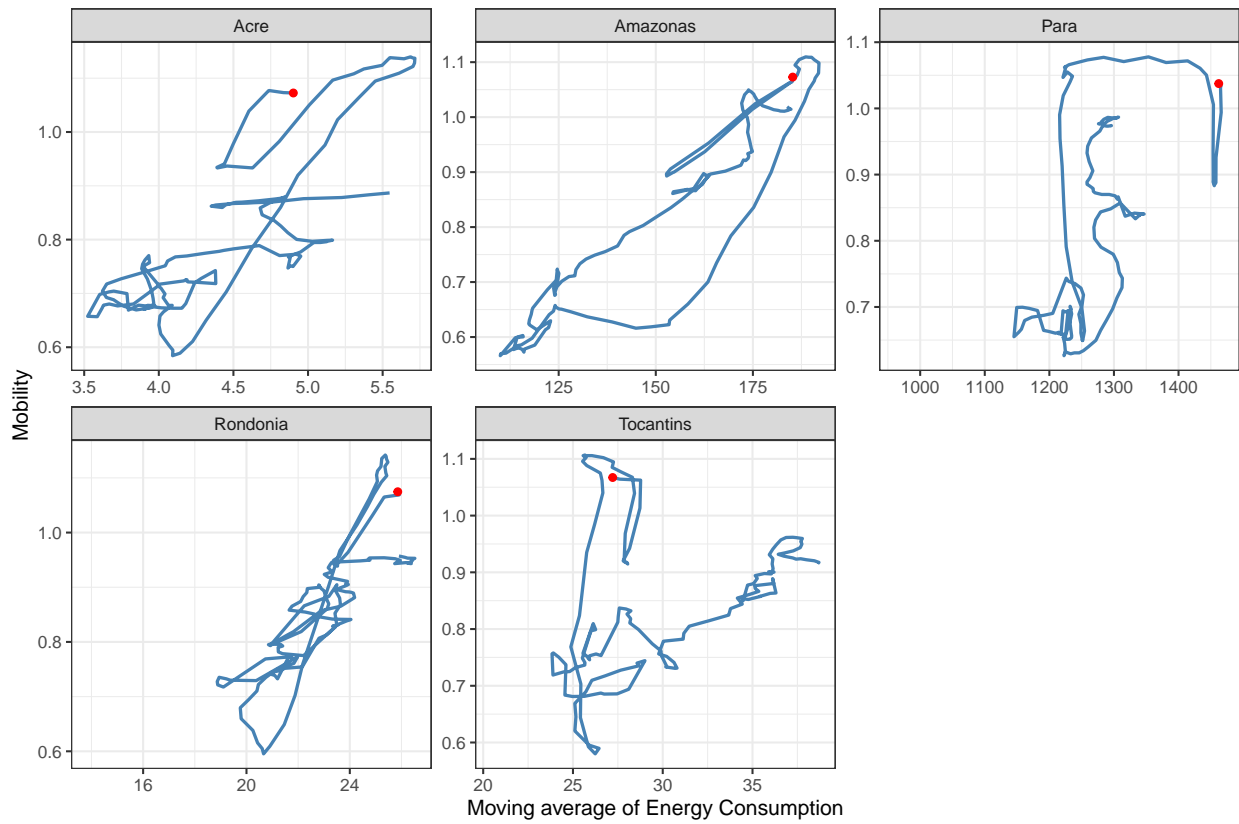
Somente ACL



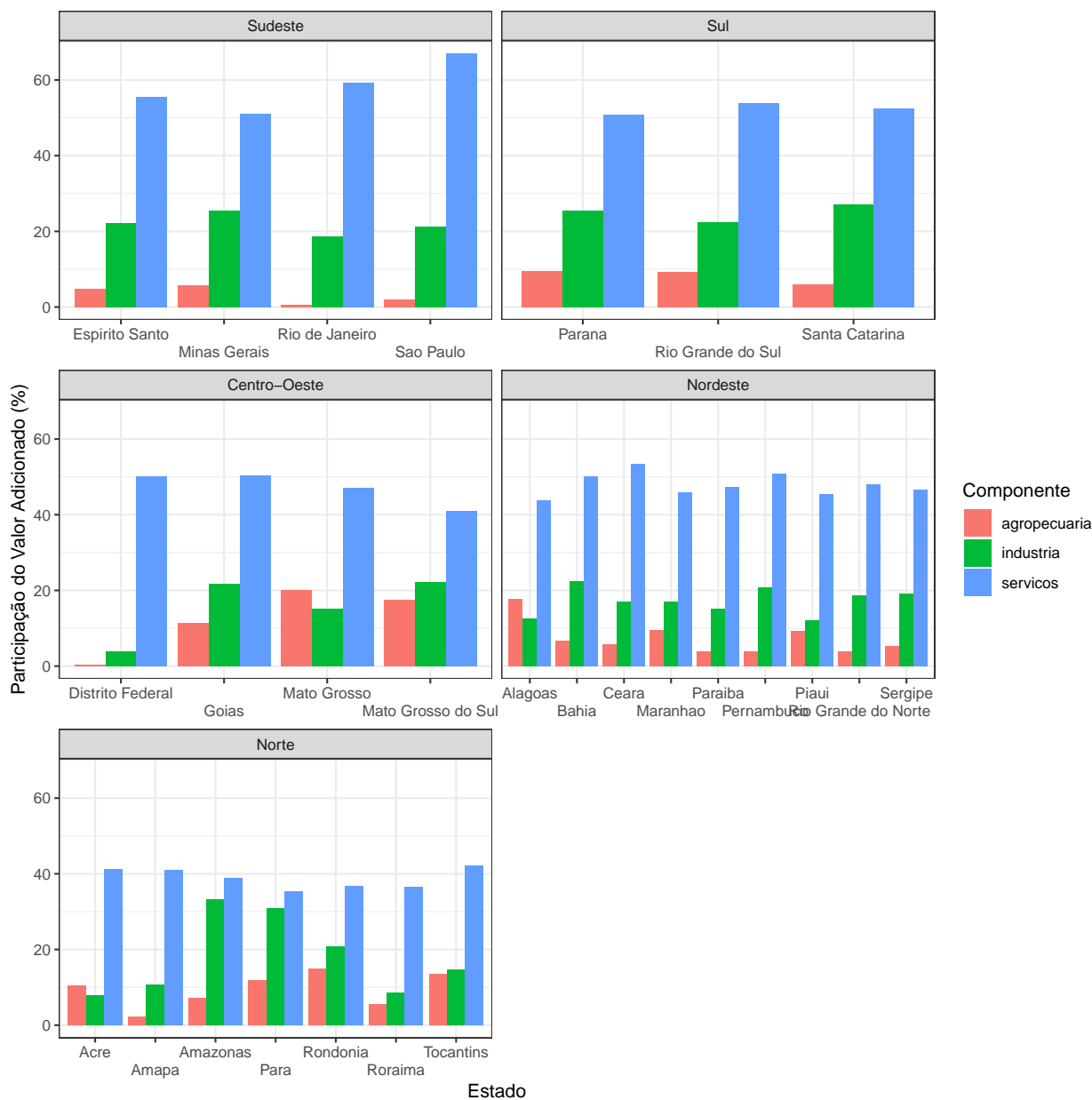
Região Norte



Somente ACL

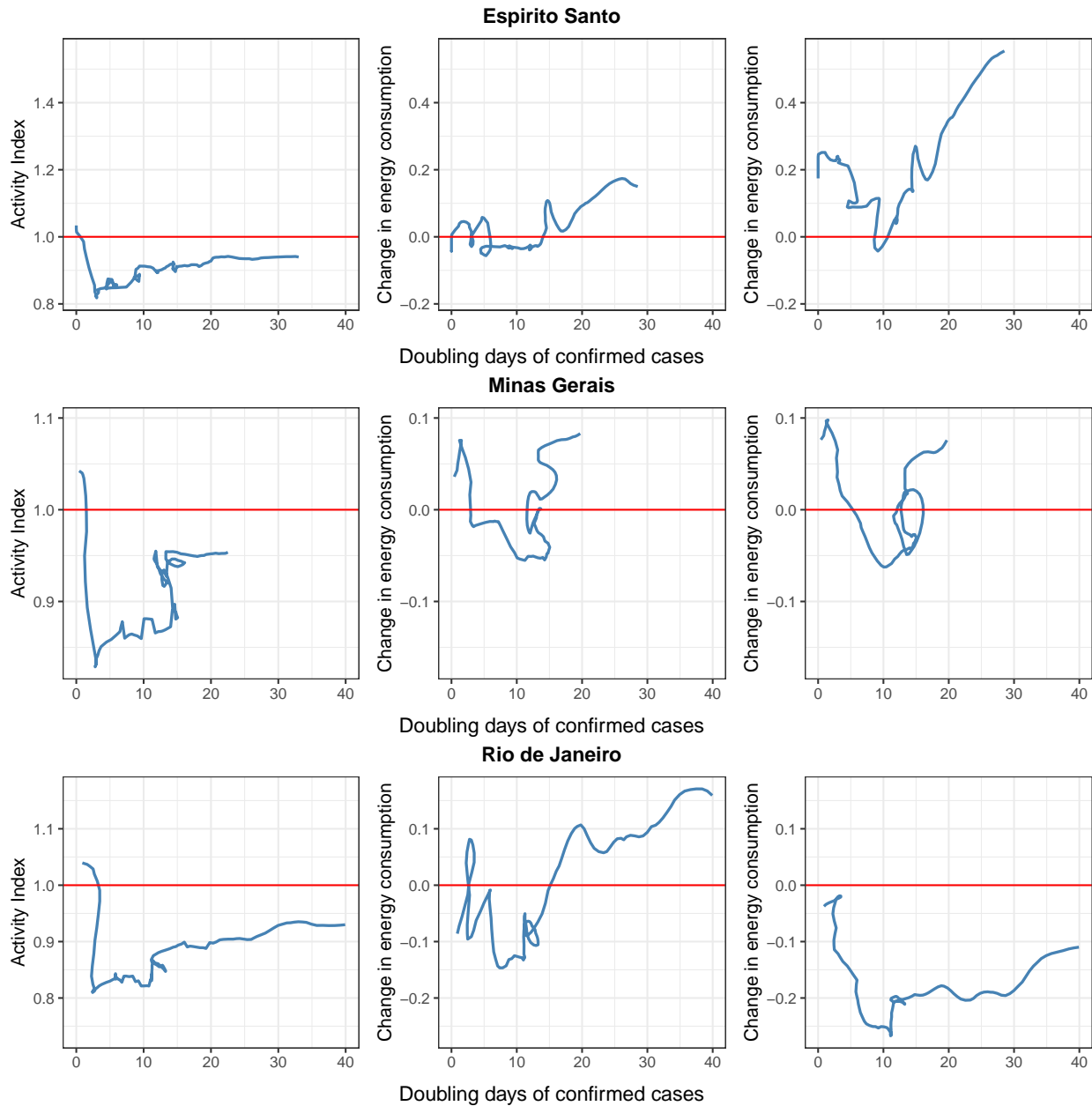


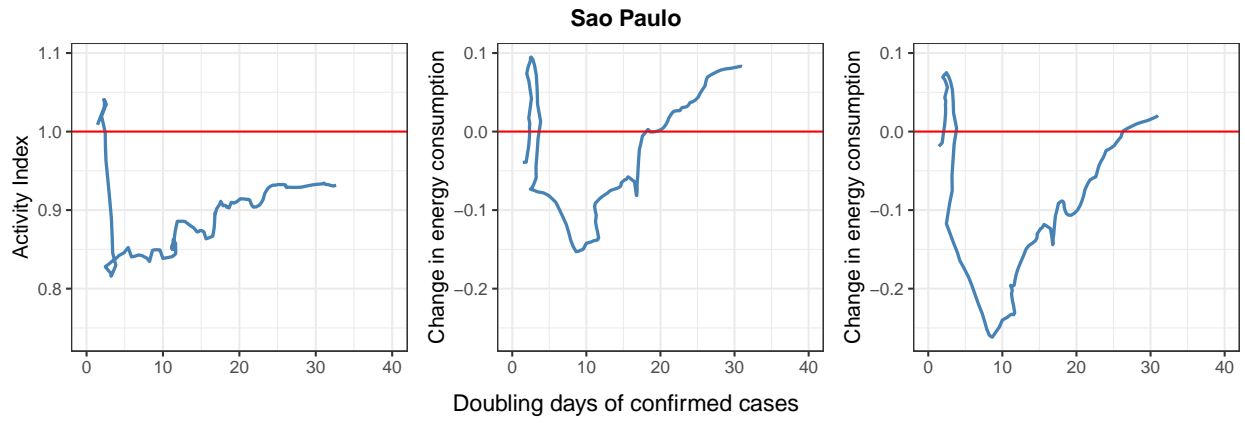
Relação entre Série de Energia e Composição do PIB?



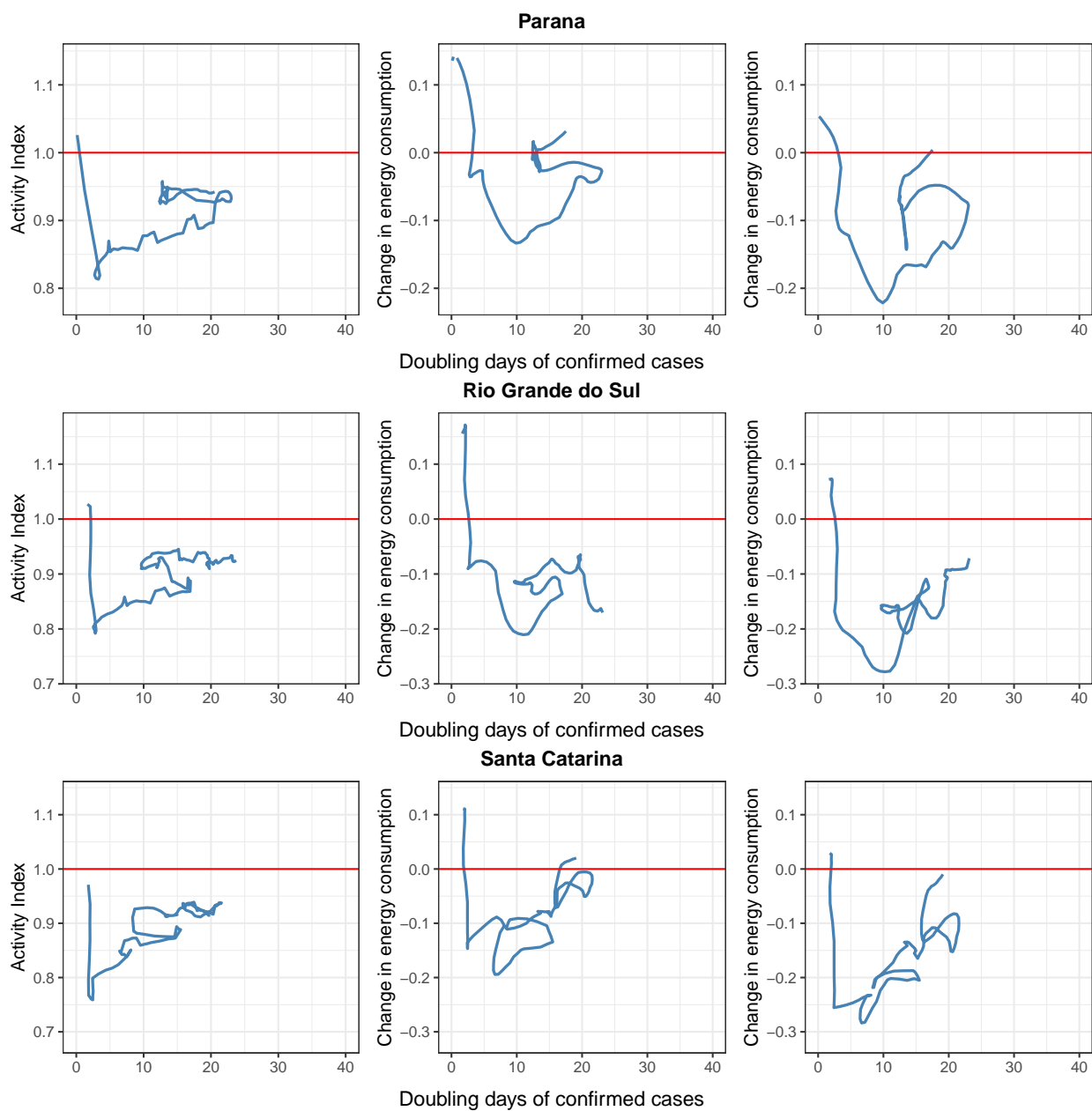
Comparação entre Índice de Atividade Calculado com Mobilidade e com dados de energia:

Região Sudeste



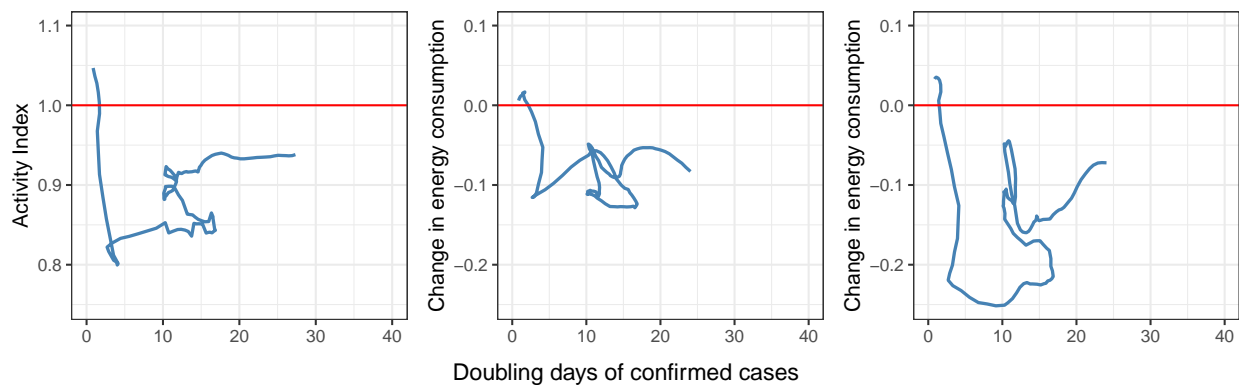


Região Sul

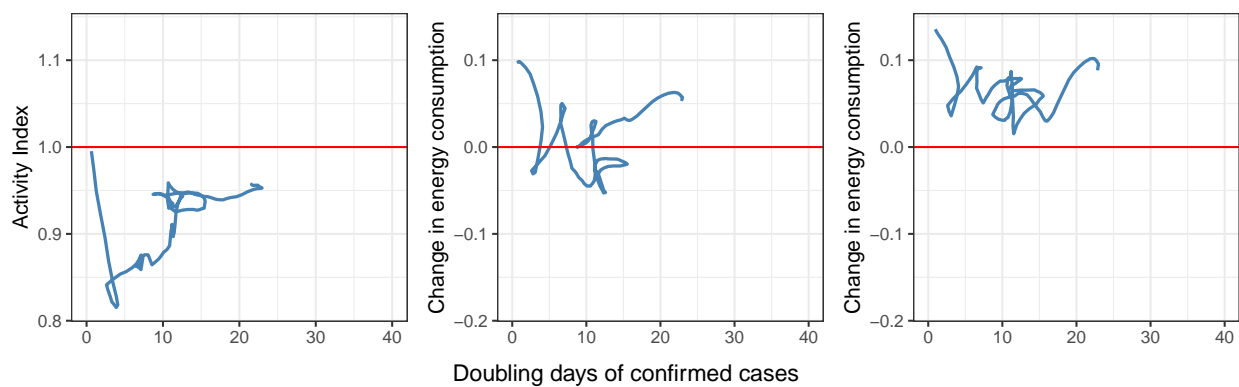


Região Centro-Oeste

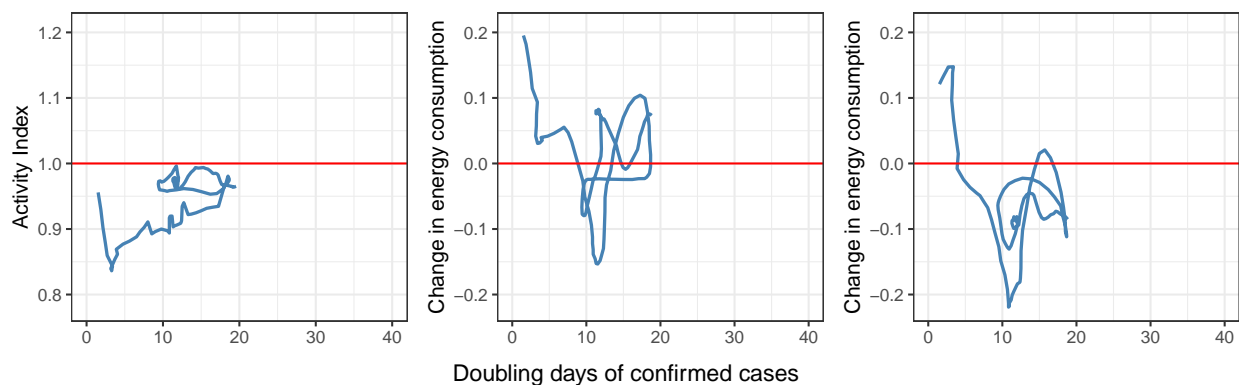
Distrito Federal



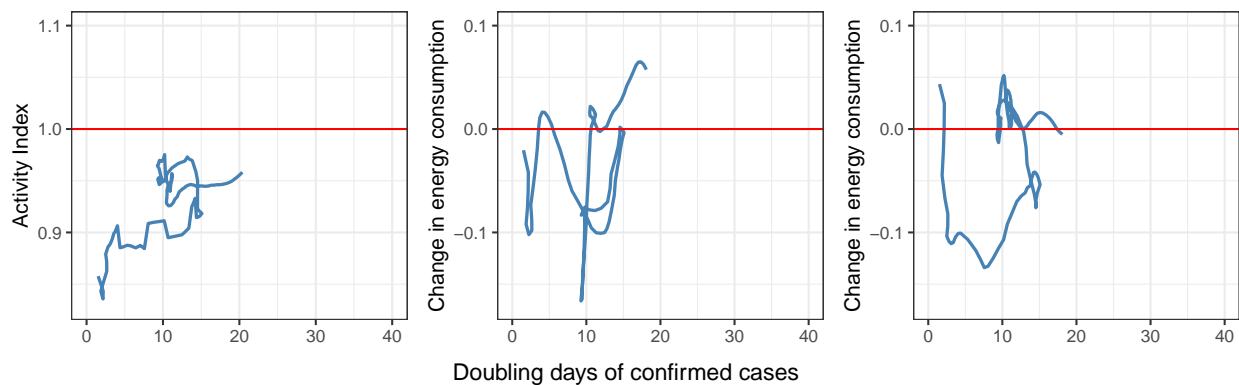
Goiás



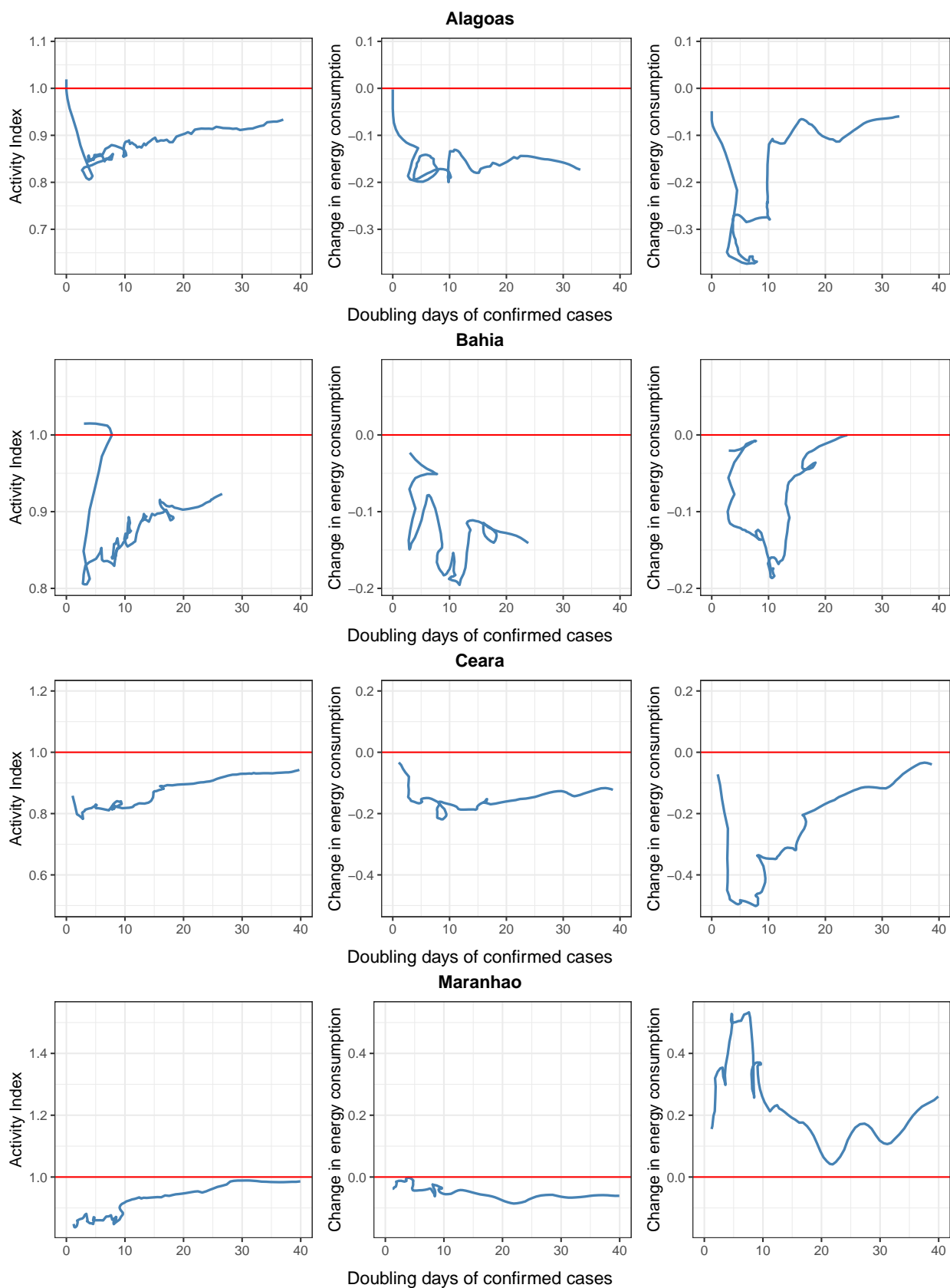
Mato Grosso do Sul

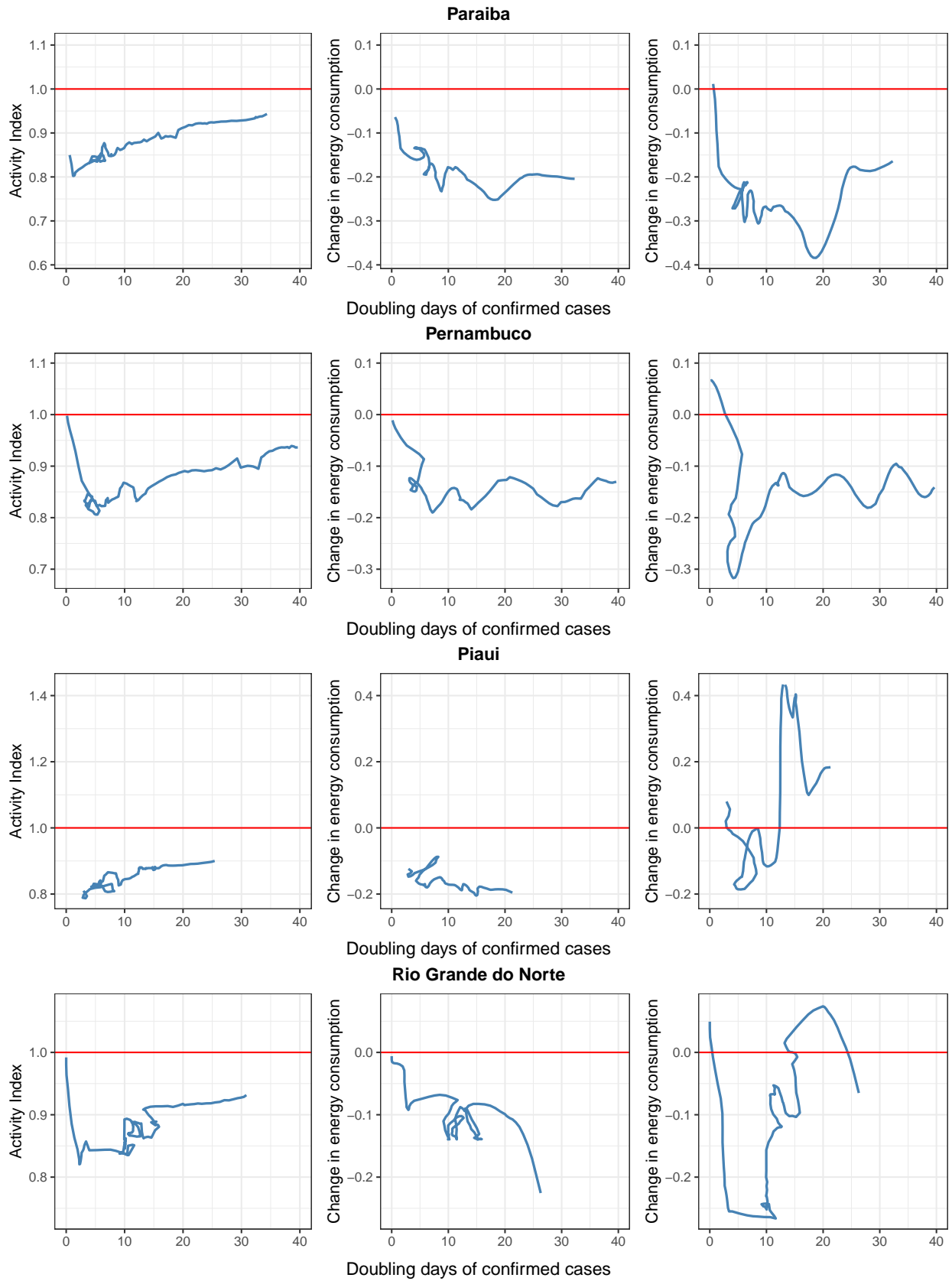


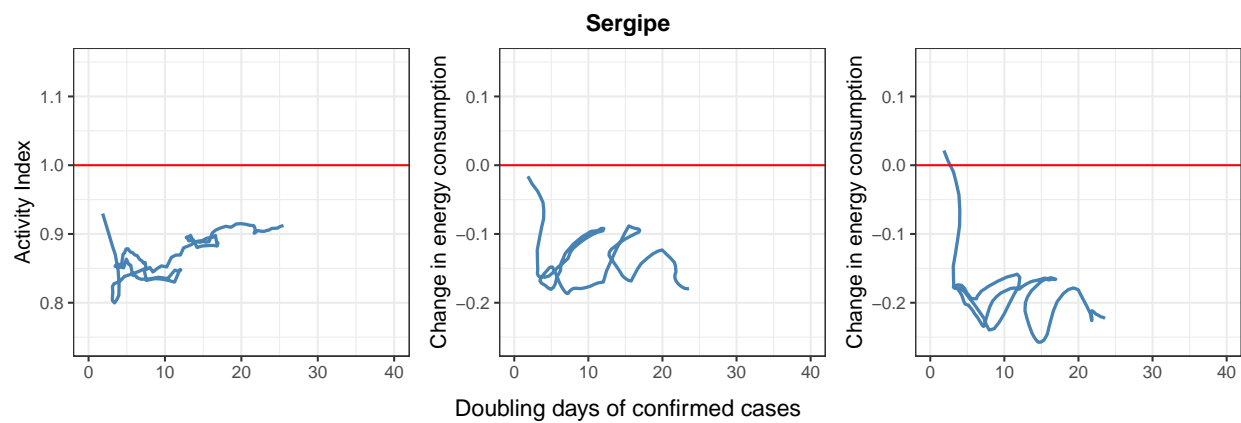
Mato Grosso



Região Nordeste







Região Norte

