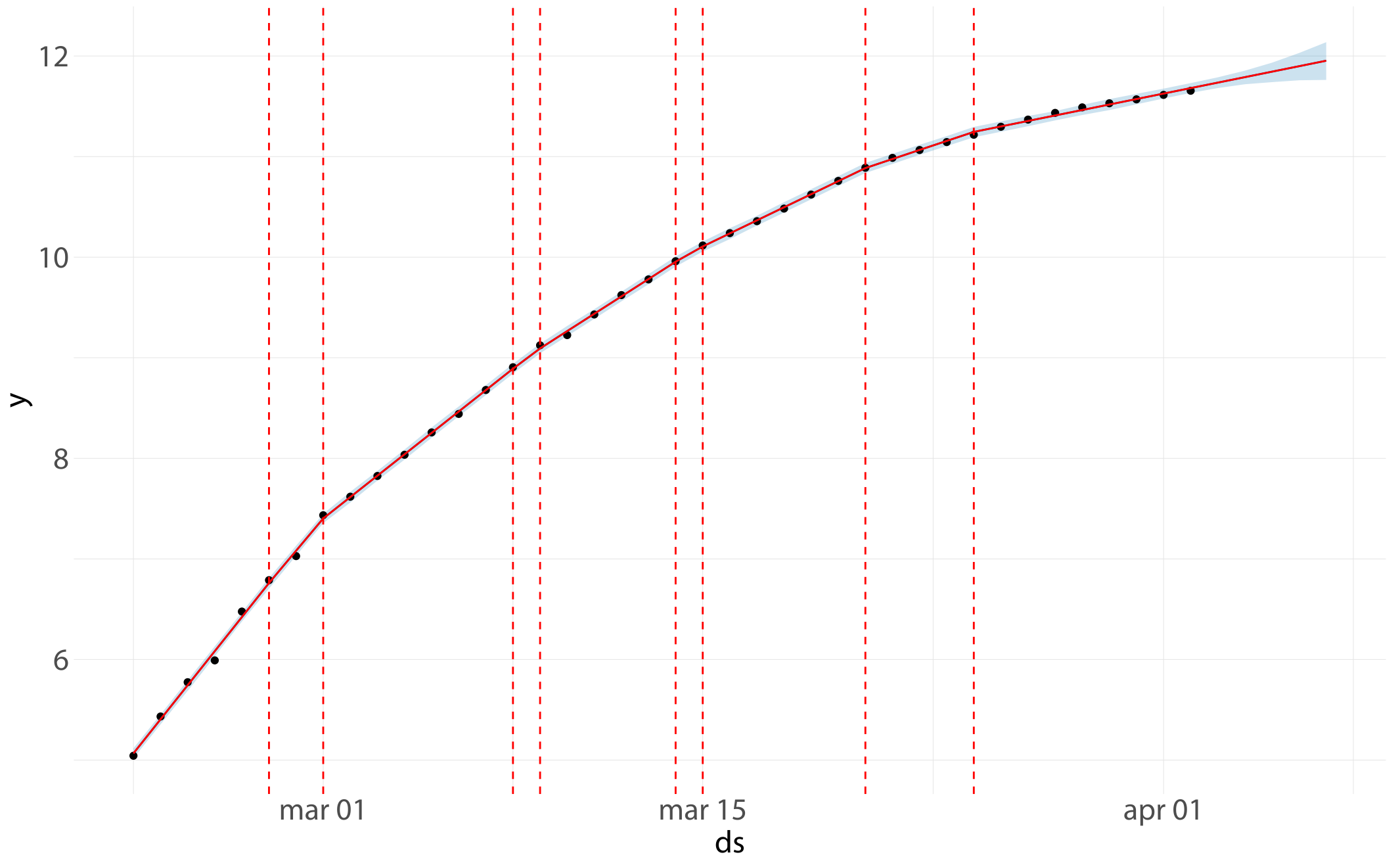
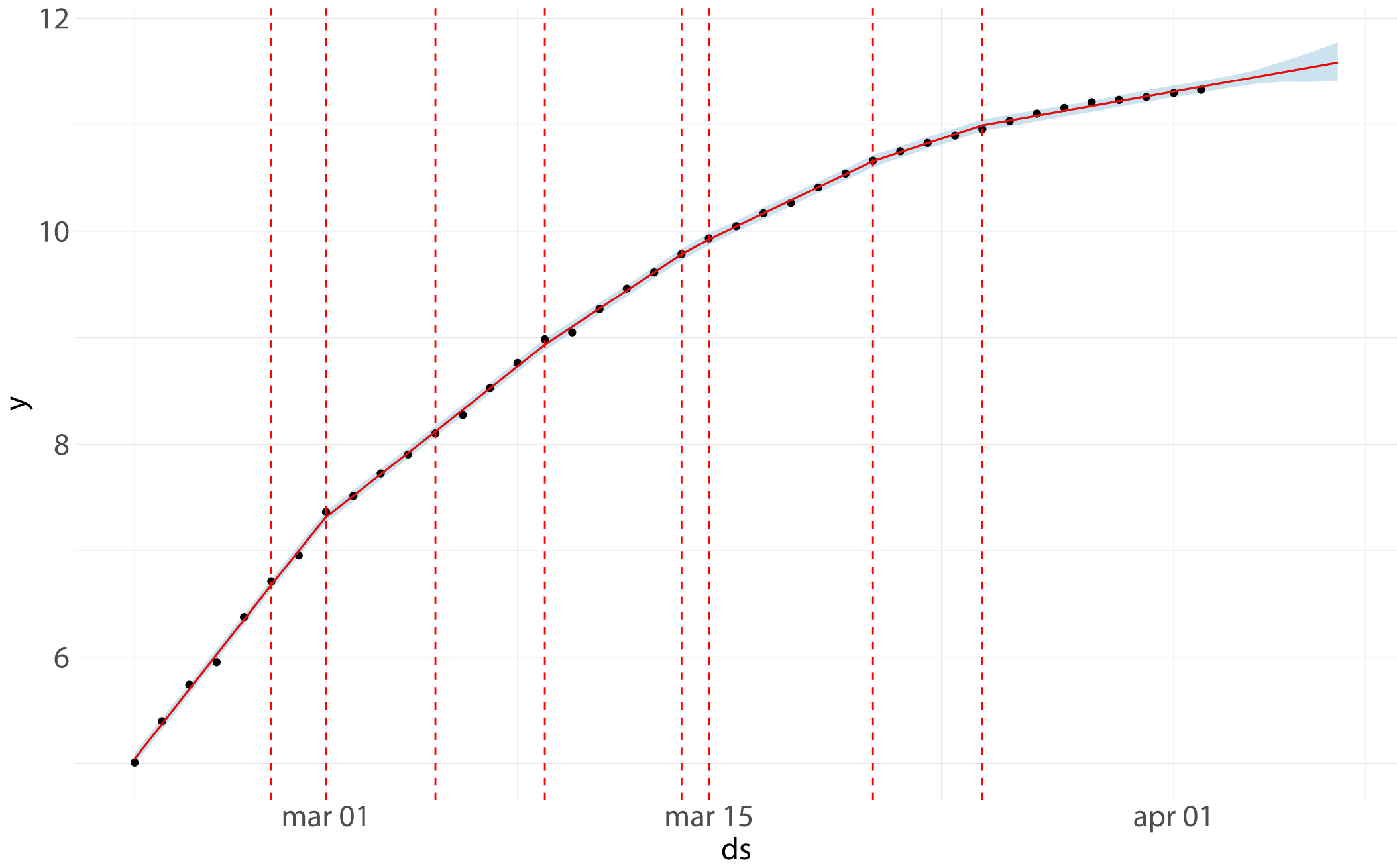


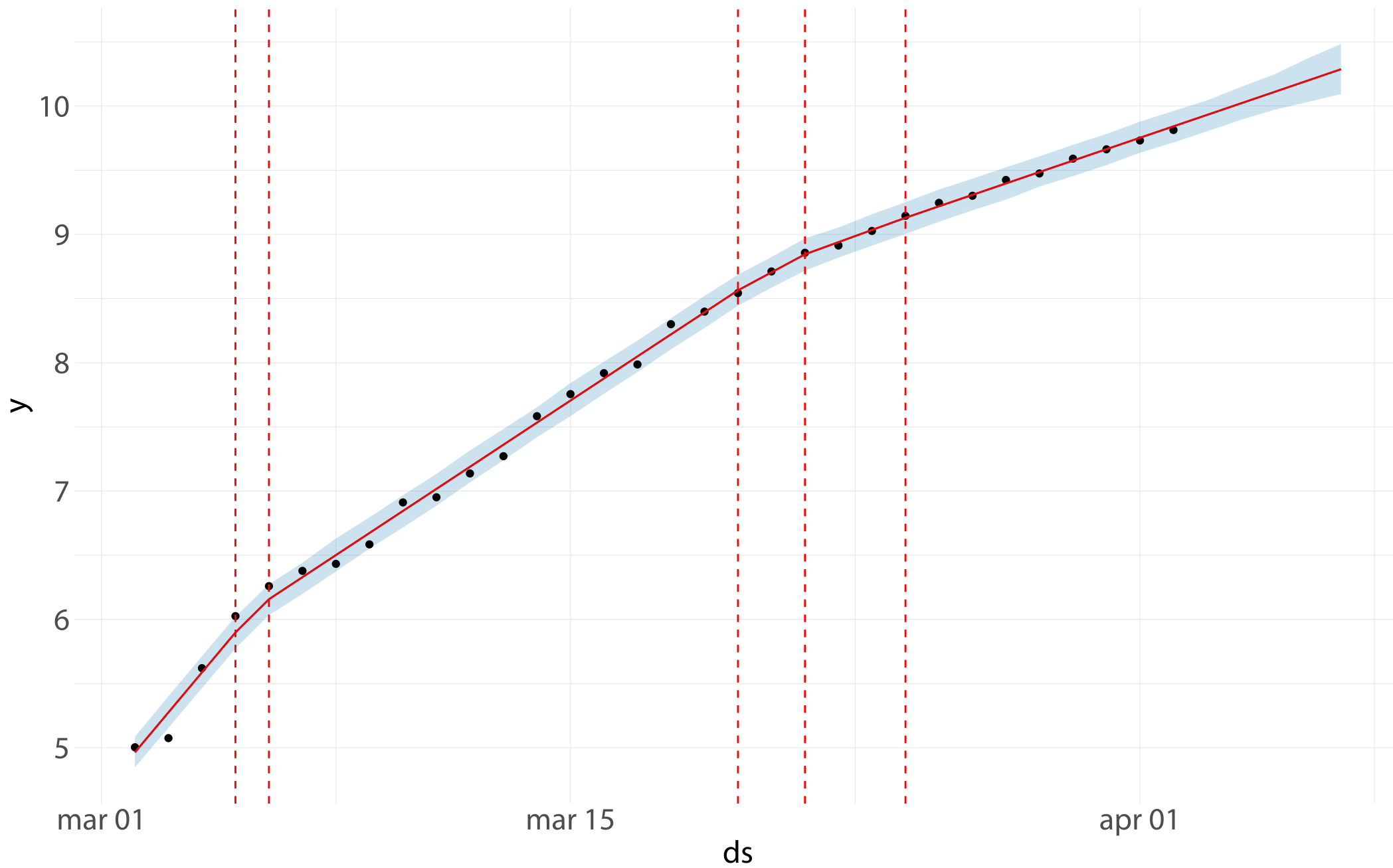
confirmed



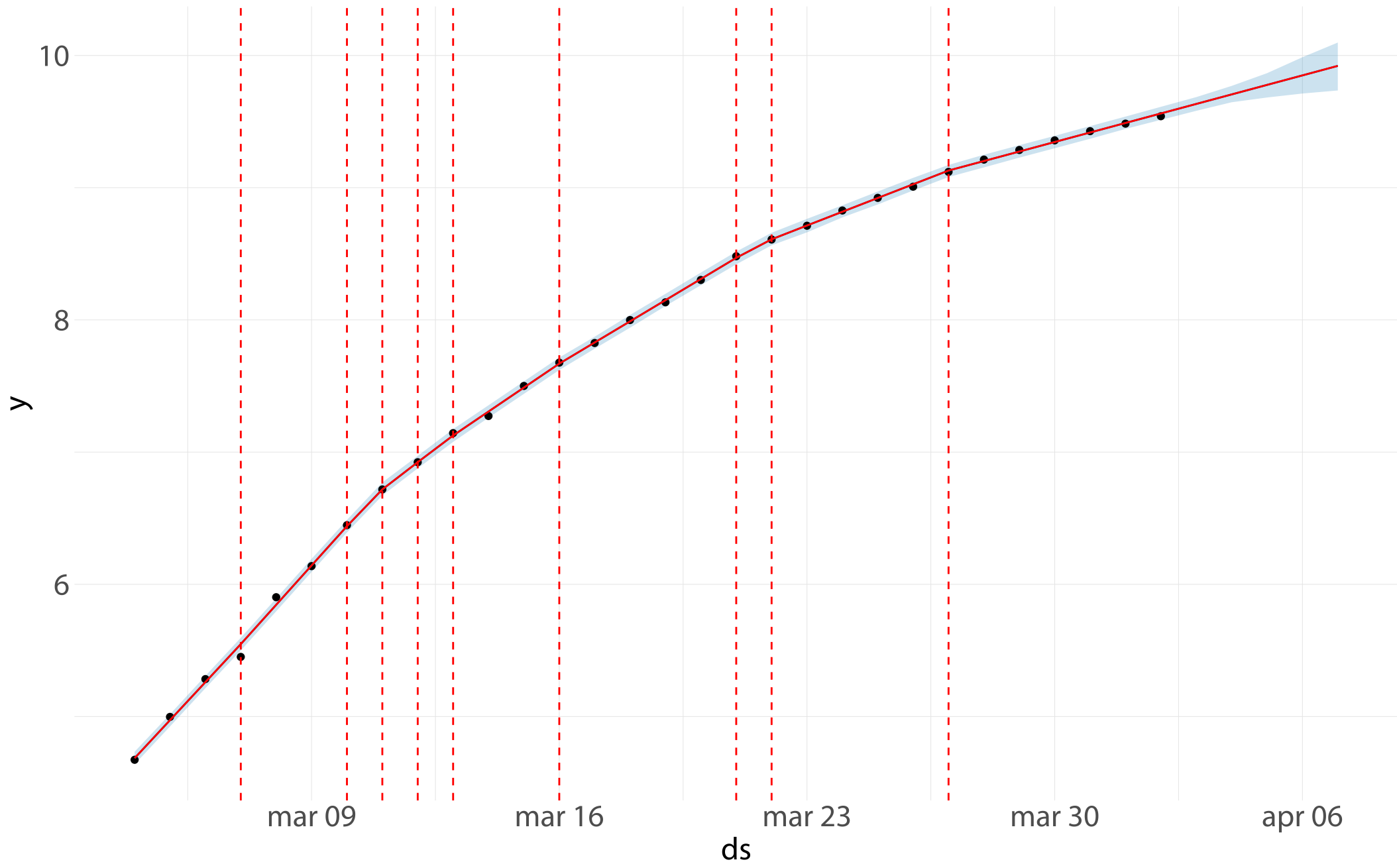
active



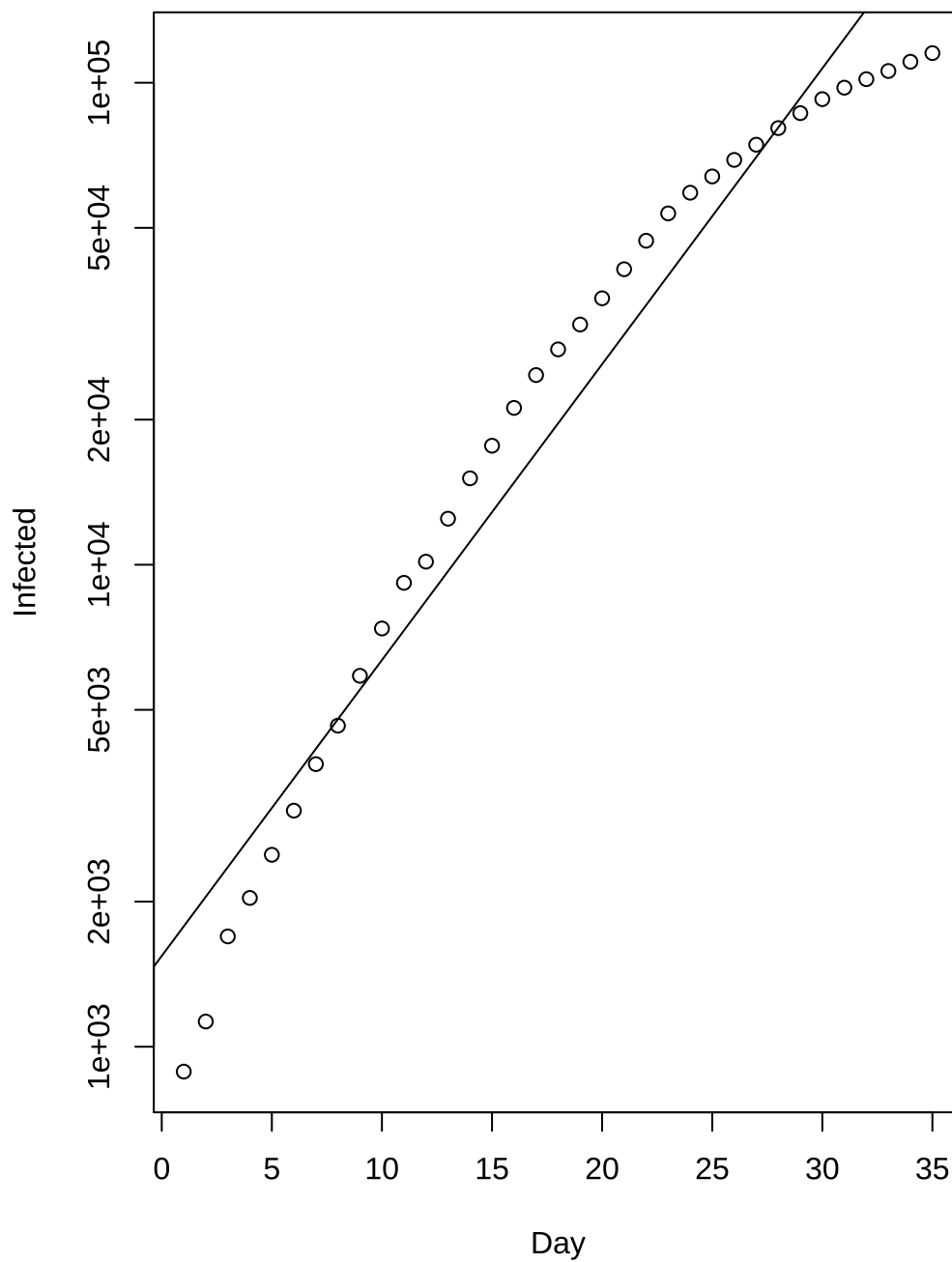
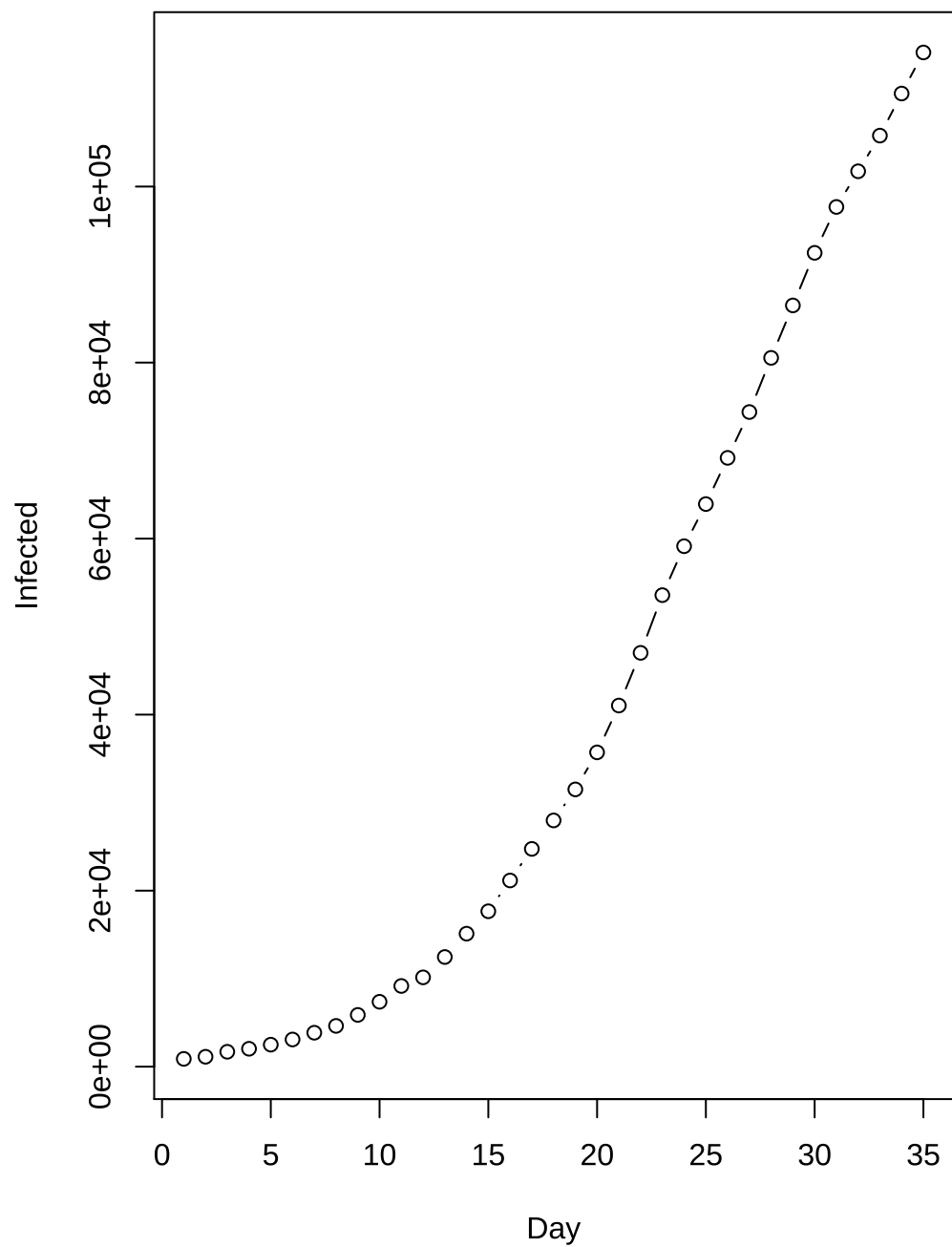
**recovered**



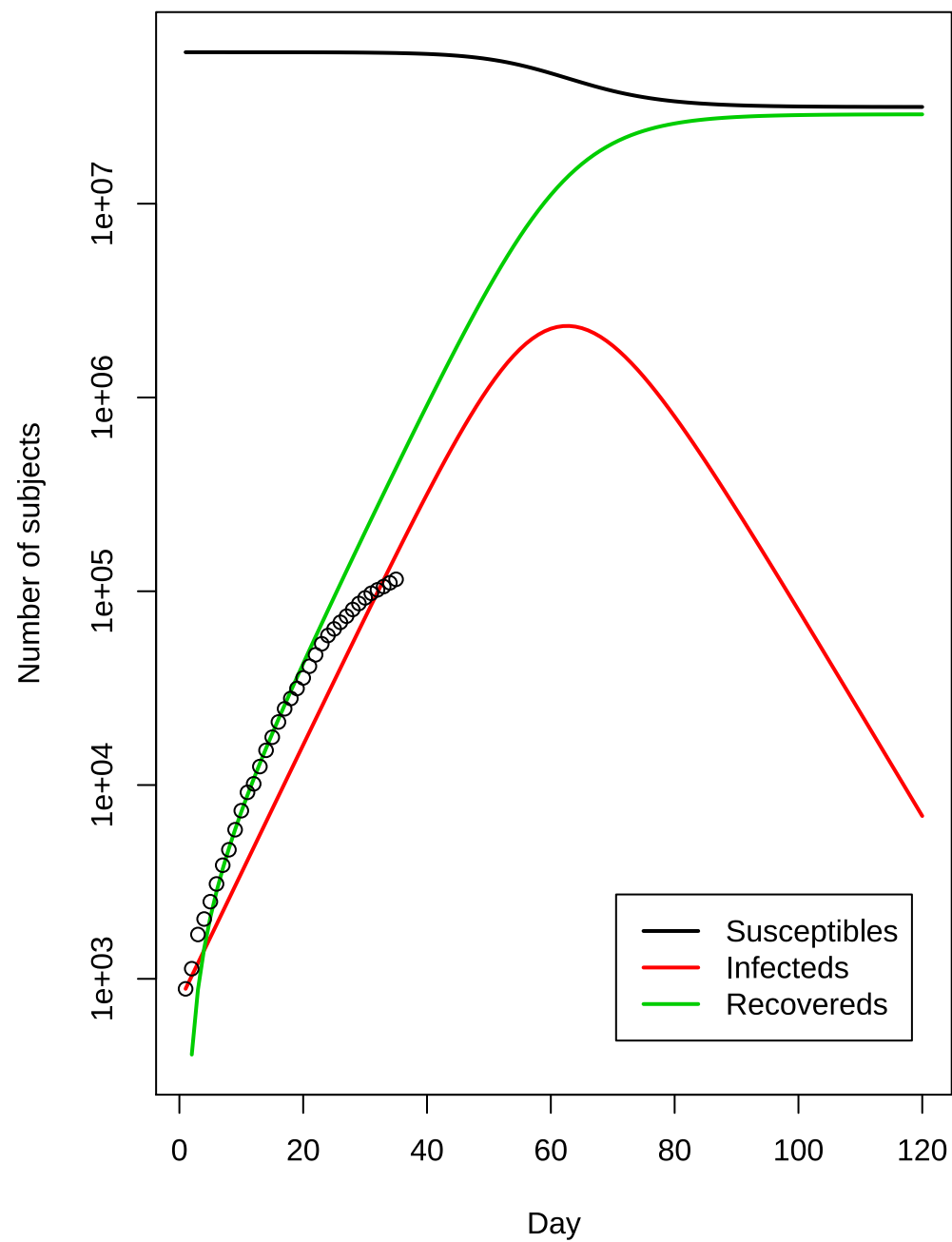
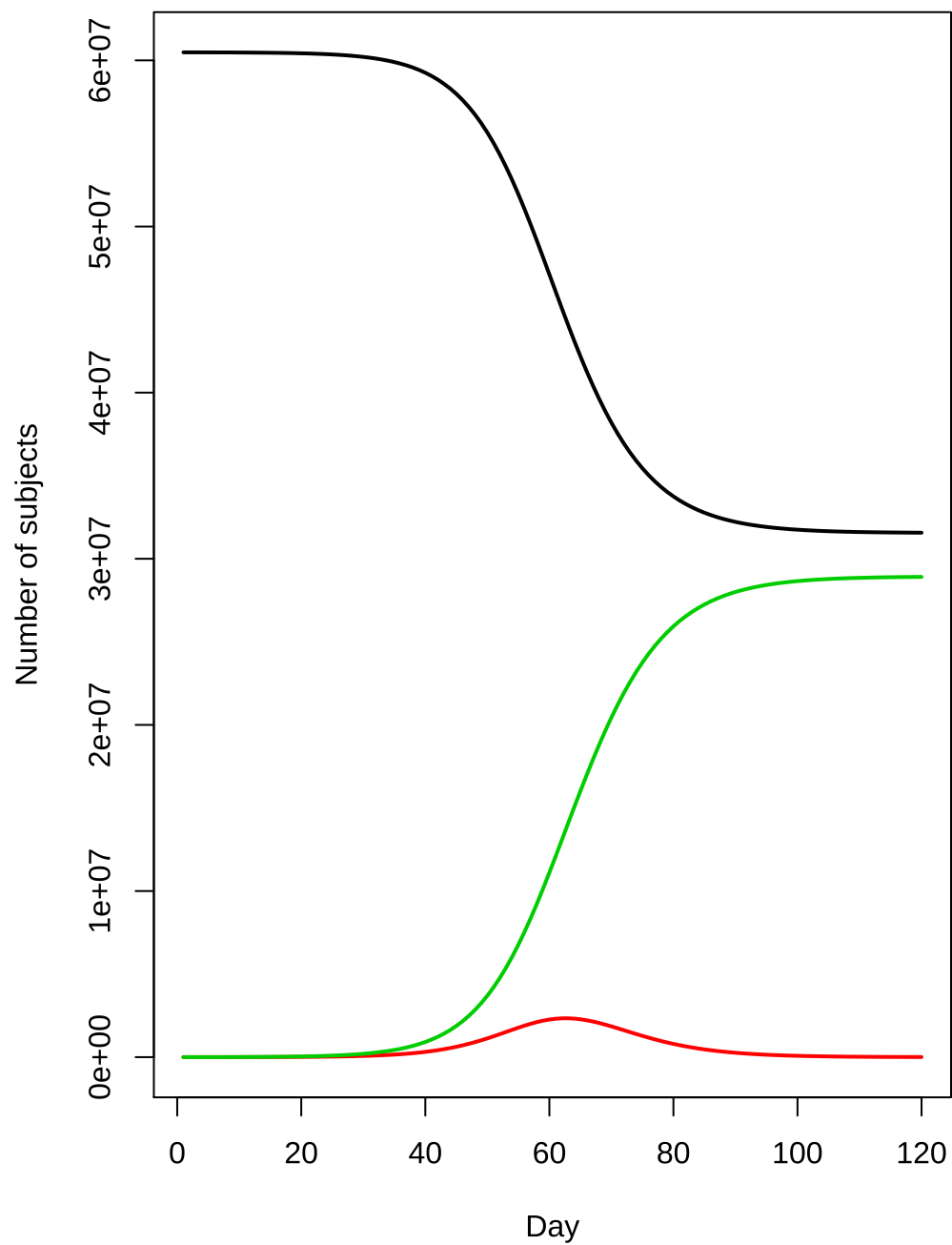
death



Total infections COVID-19 Italy

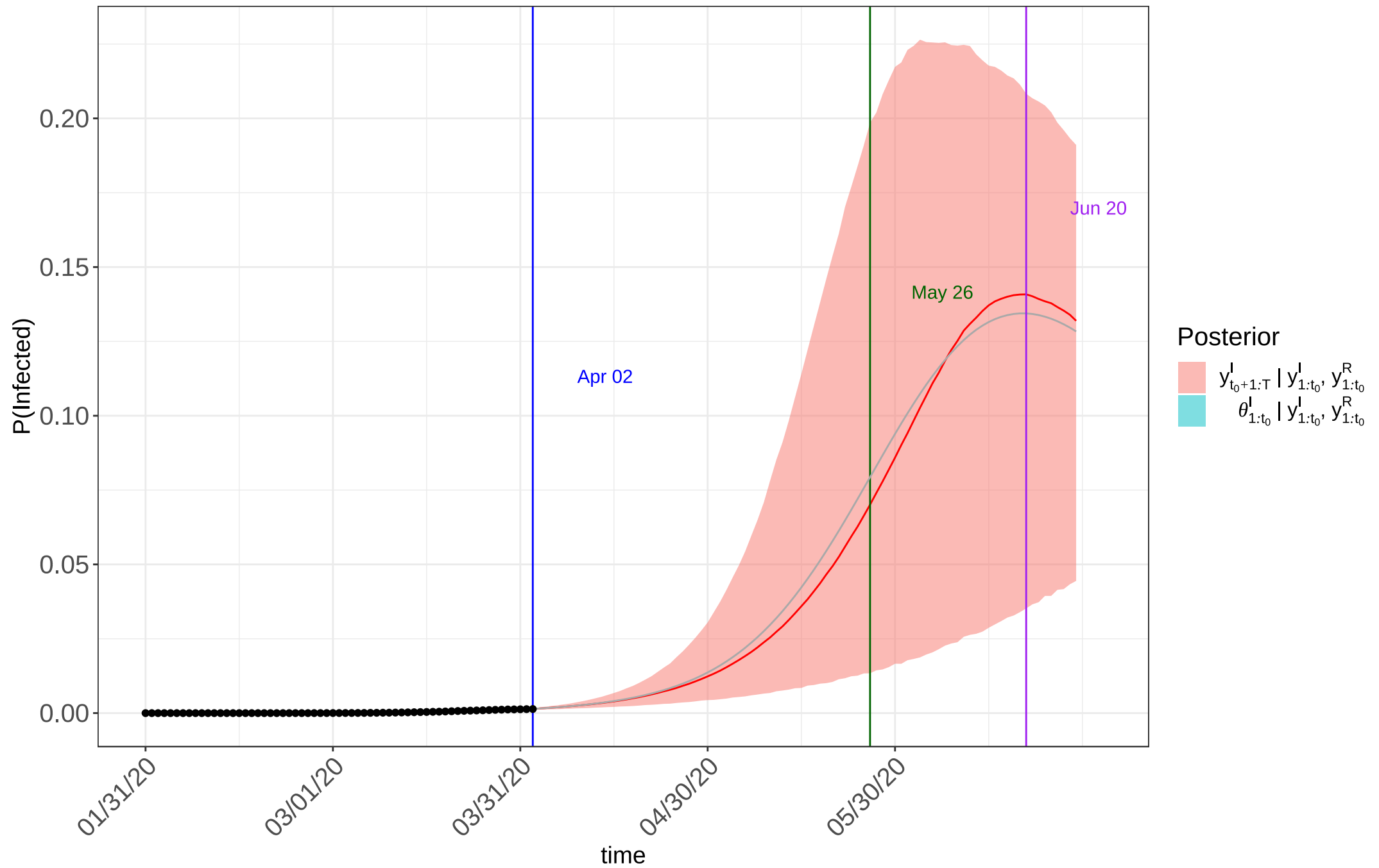


# SIR model COVID-19 Italy



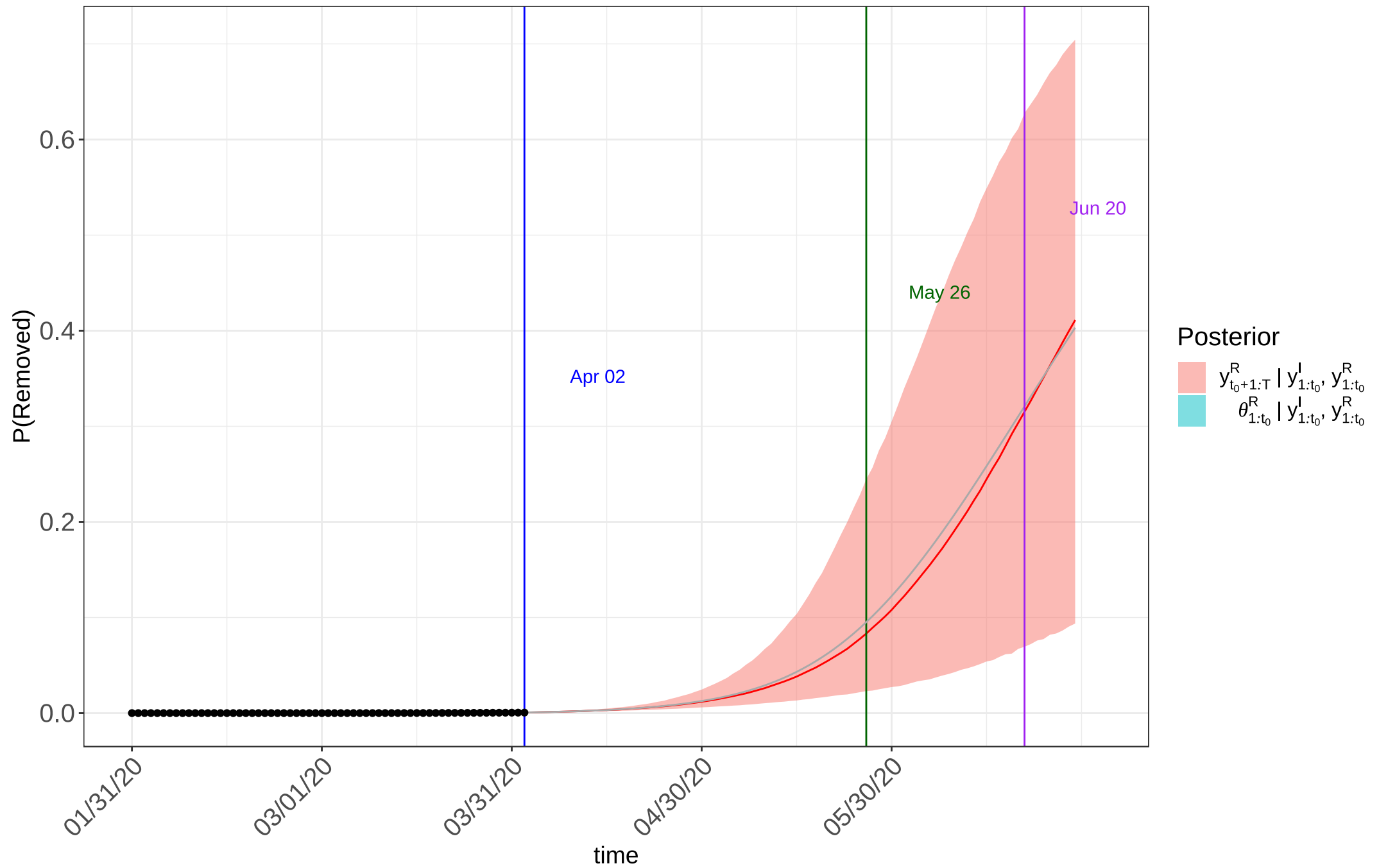
Italy\_nopi: infection forecast with prior  $\beta_0=0.576, \gamma_0=0.424$  and  $R_0=1.36$

Posterior  $\beta_p=0.157, \gamma_p=0.0791$  and  $R_0=2$



Italy\_nopi: removed forecast with prior  $\beta_0=0.576, \gamma_0=0.424$  and  $R_0=1.36$

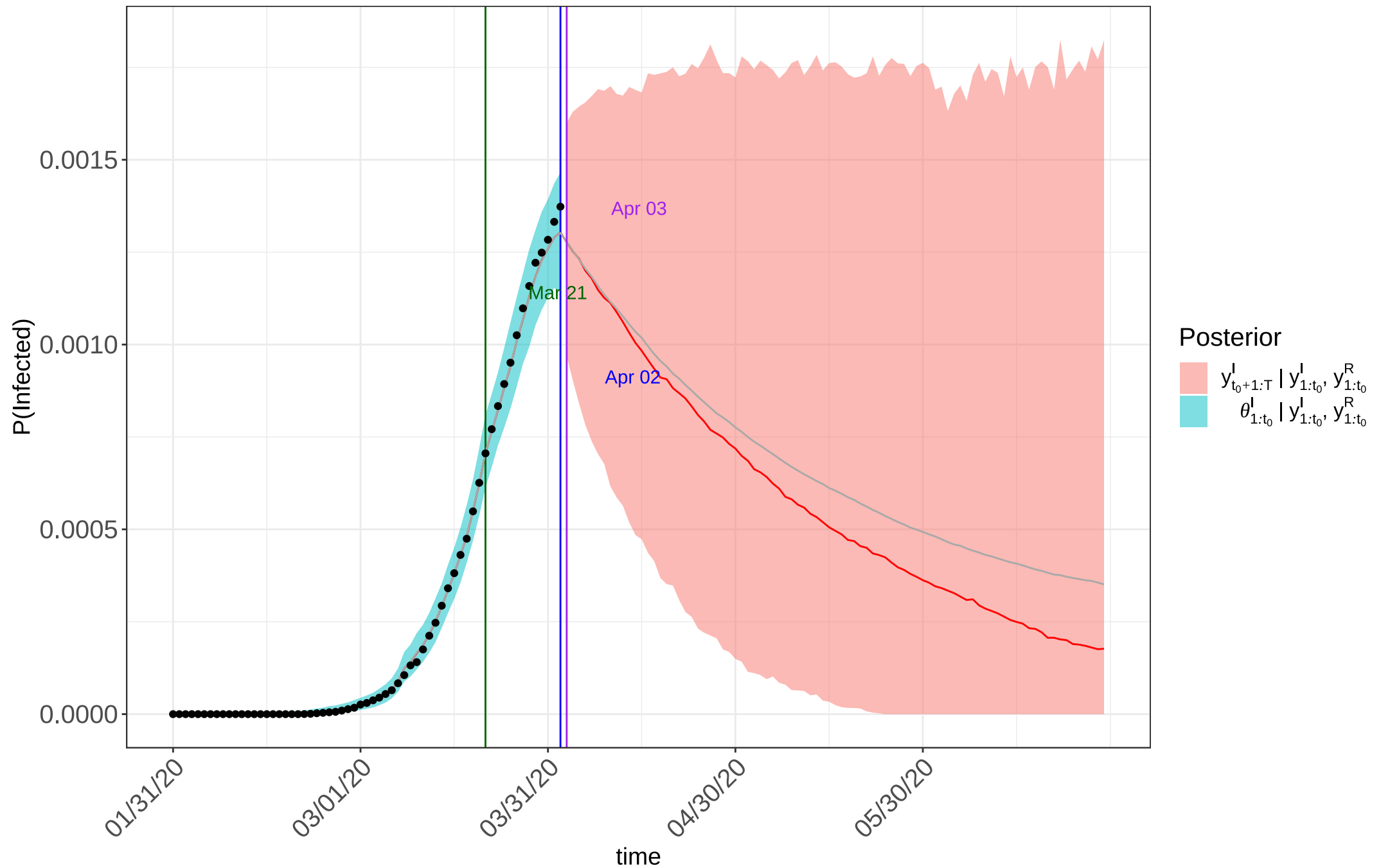
posterior:  $\beta_p=0.157, \gamma_p=0.0791$  and  $R_0=2$





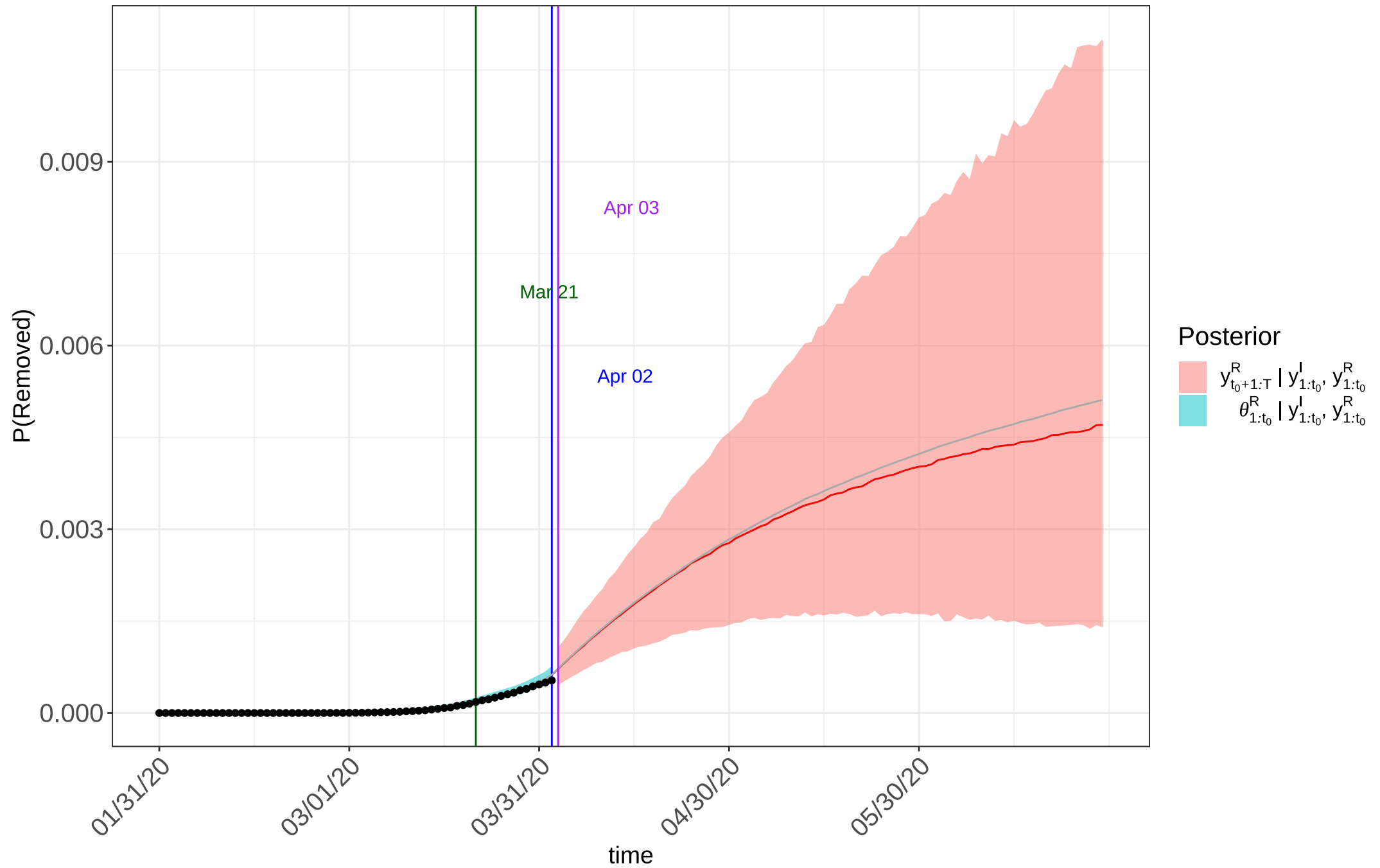
# Italy\_step: infection forecast with prior $\beta_0=0.576, \gamma_0=0.424$ and $R_0=1.36$

Posterior  $\beta_p=0.59, \gamma_p=0.0789$  and  $R_0=7.56$



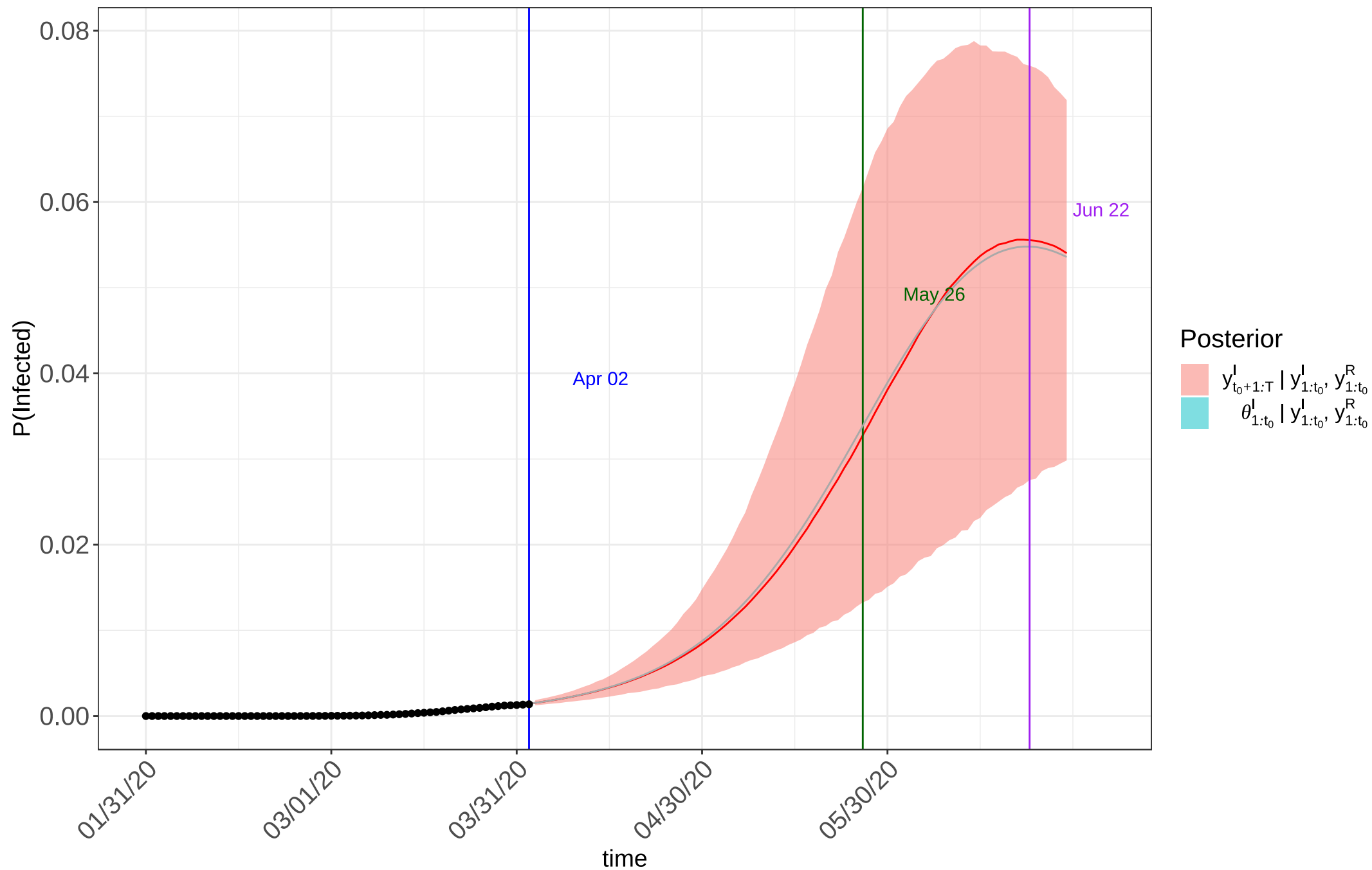
Italy\_step: removed forecast with prior  $\beta_0=0.576, \gamma_0=0.424$  and  $R_0=1.36$

posterior:  $\beta_p=0.59, \gamma_p=0.0789$  and  $R_0=7.56$



# Italy\_q: infection forecast with prior $\beta_0=0.576, \gamma_0=0.424$ and $R_0=1.36$

Posterior  $\beta_p=0.372, \gamma_p=0.0614$  and  $R_0=6.1$



Italy\_q: removed forecast with prior  $\beta_0=0.576, \gamma_0=0.424$  and  $R_0=1.36$

posterior:  $\beta_p=0.372, \gamma_p=0.0614$  and  $R_0=6.1$

