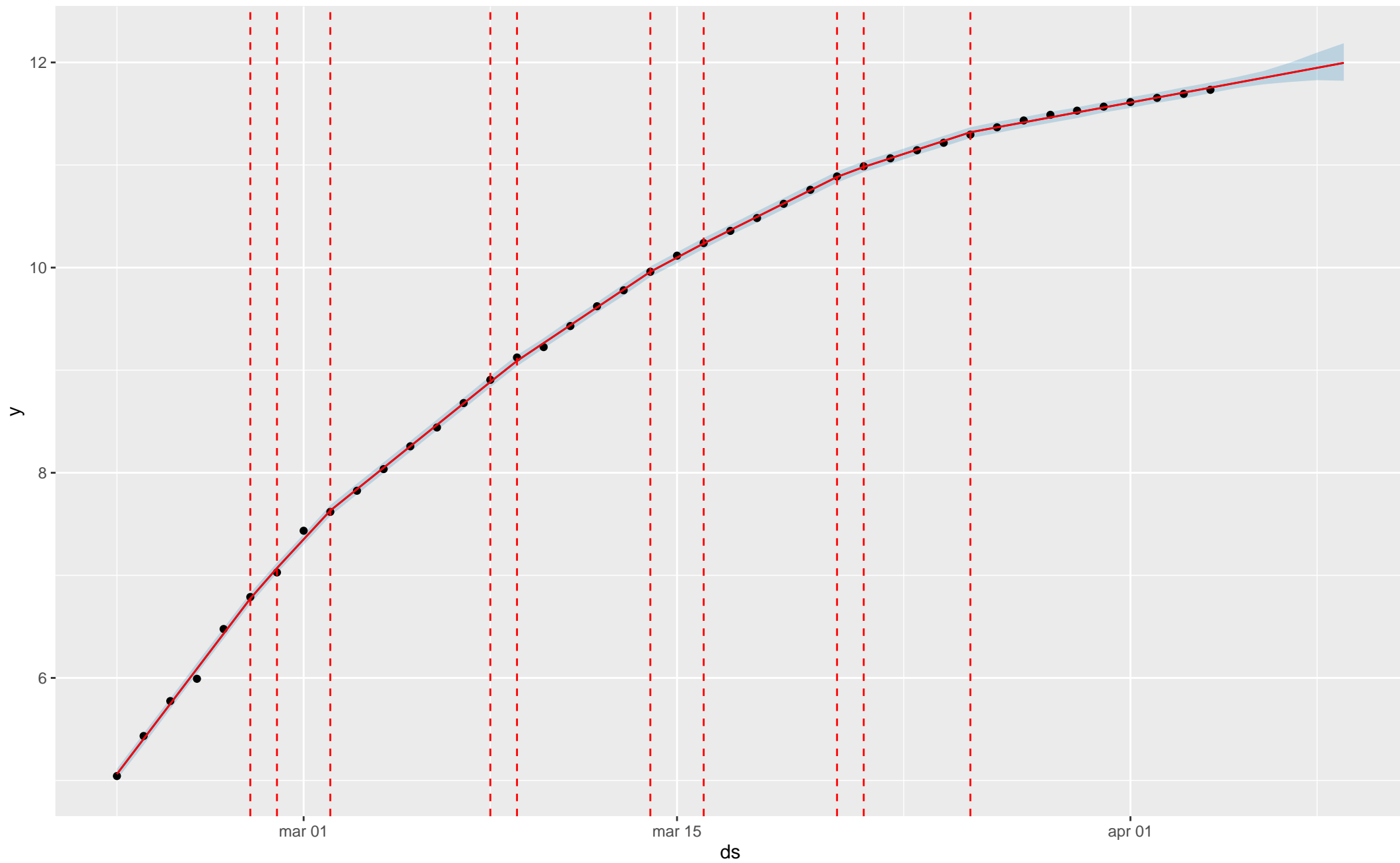
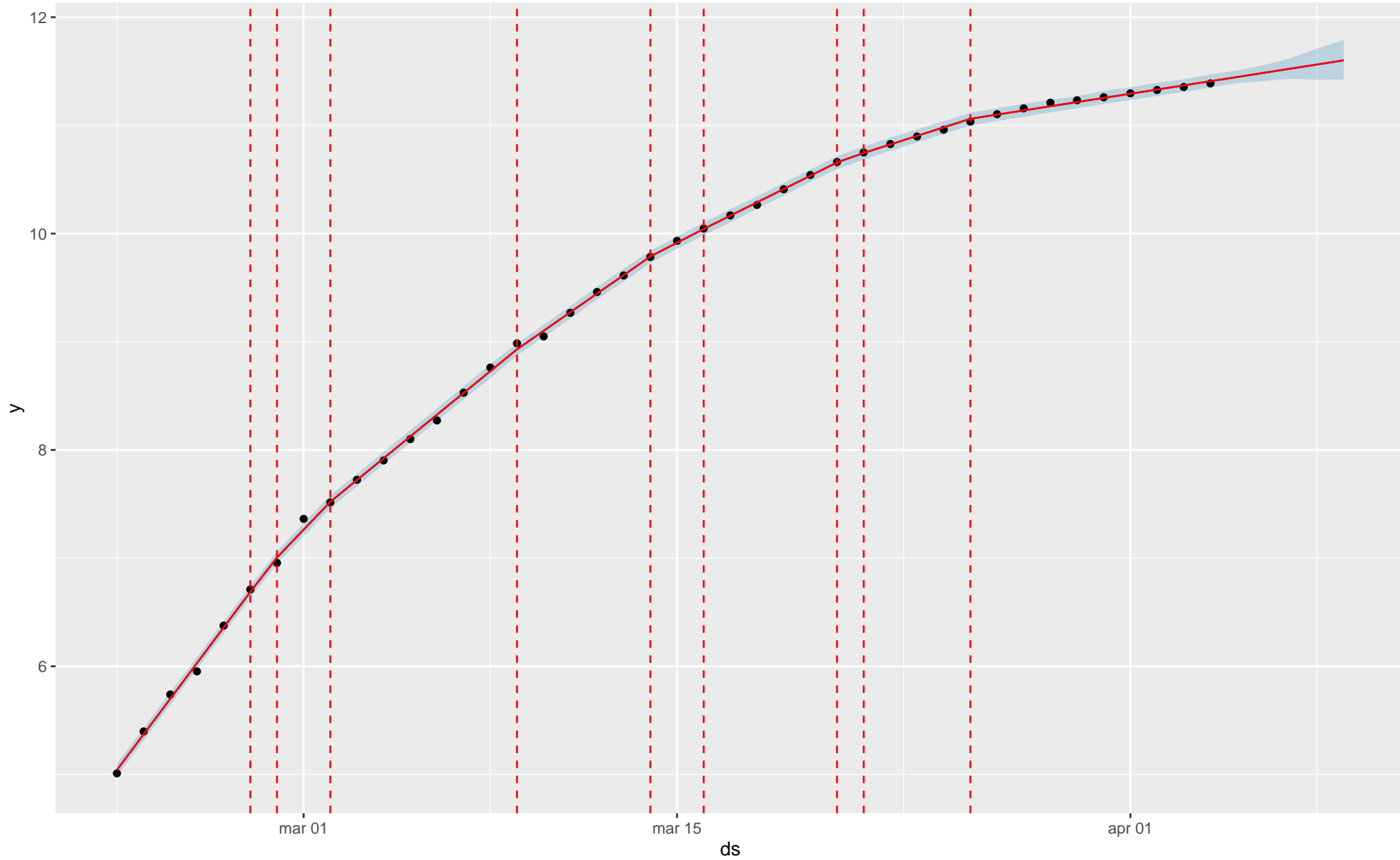


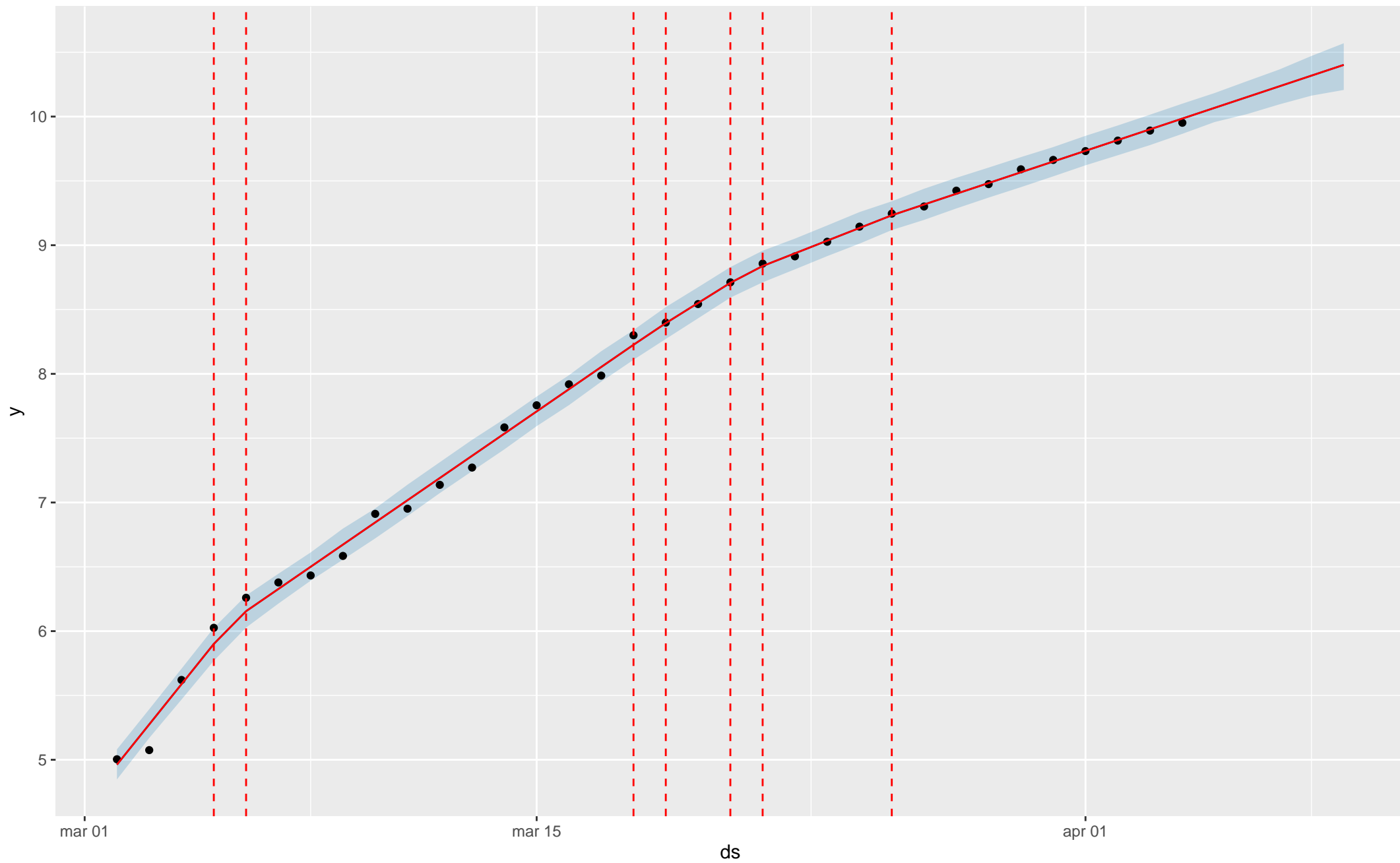
confirmed



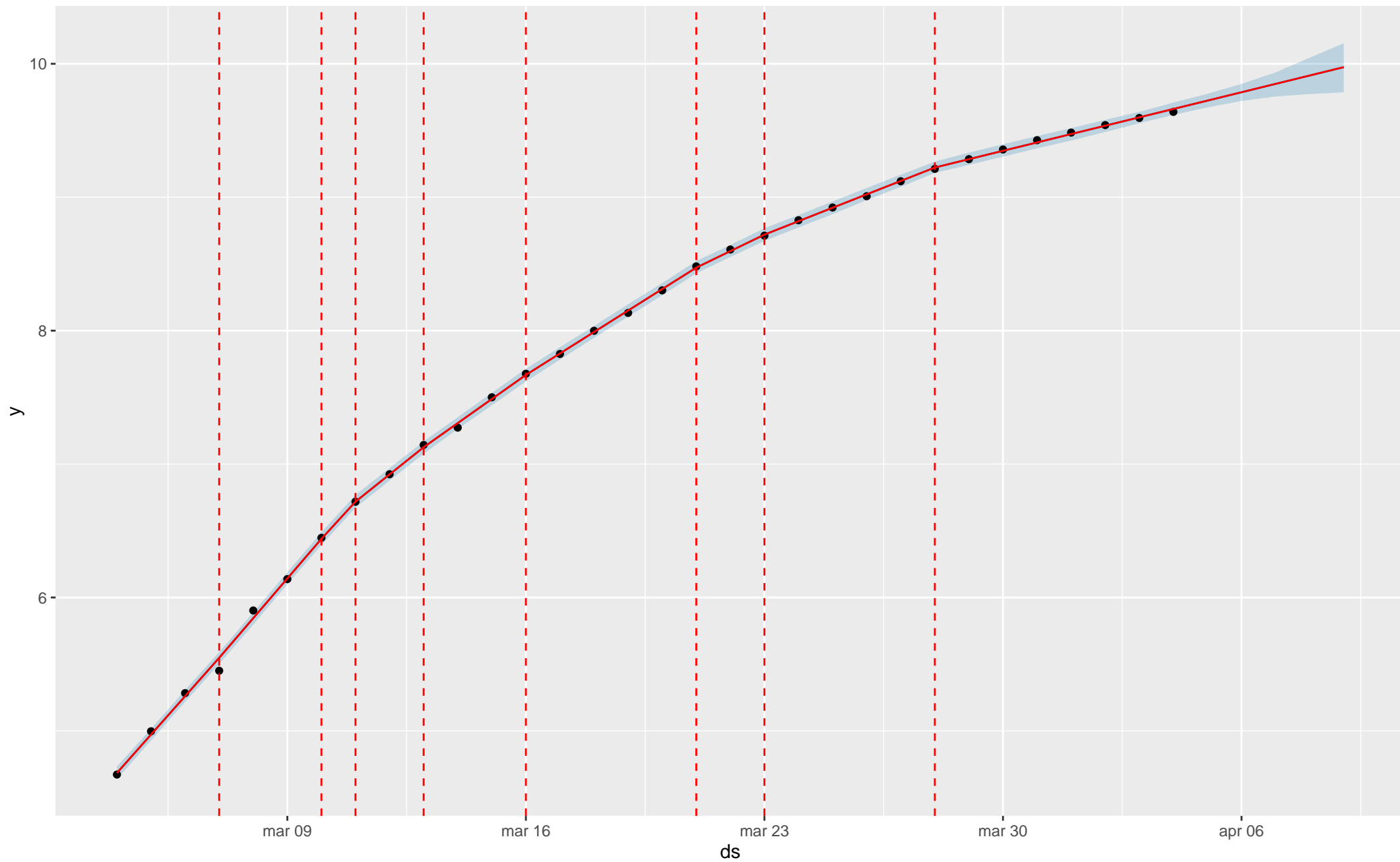
active



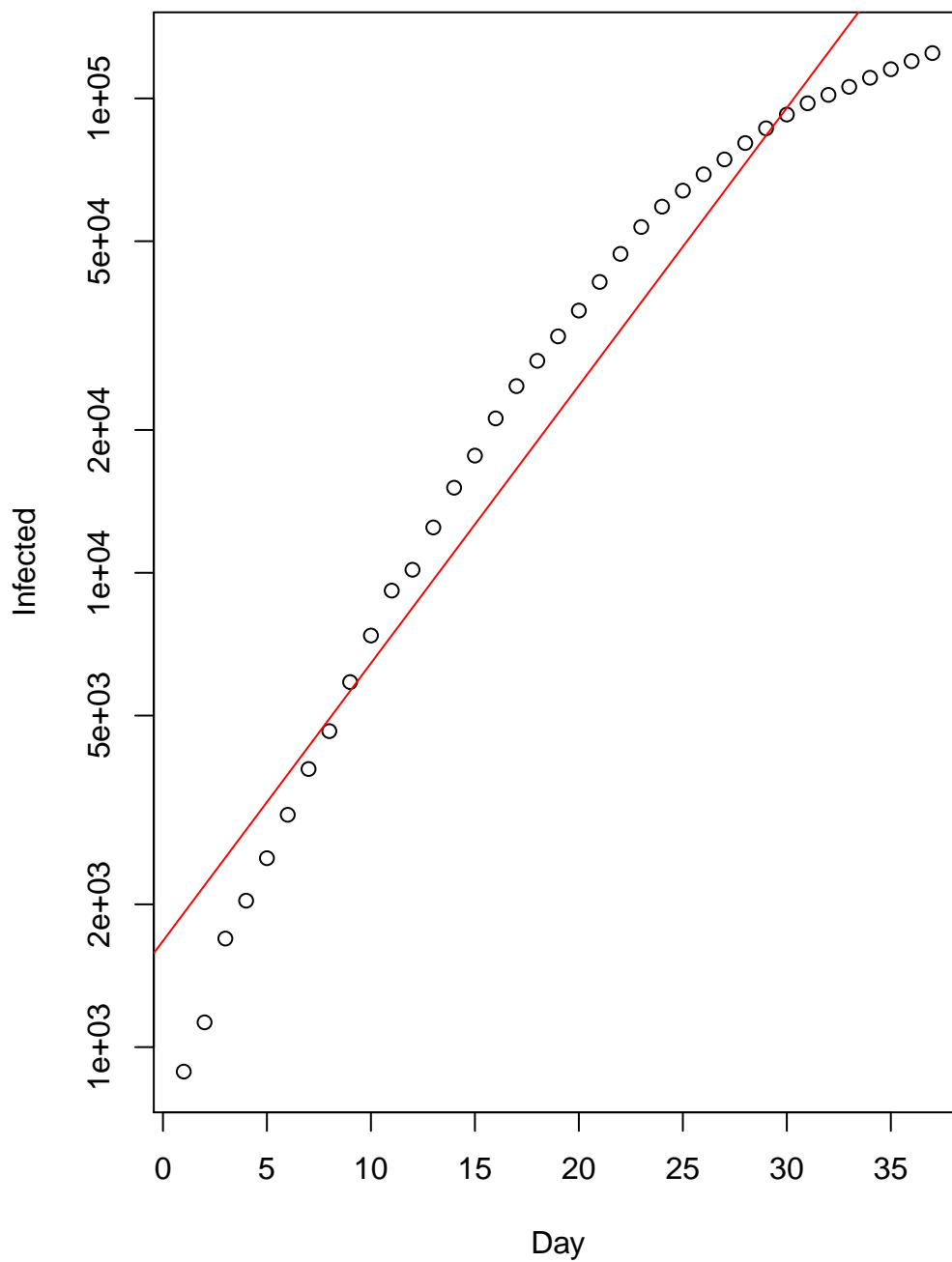
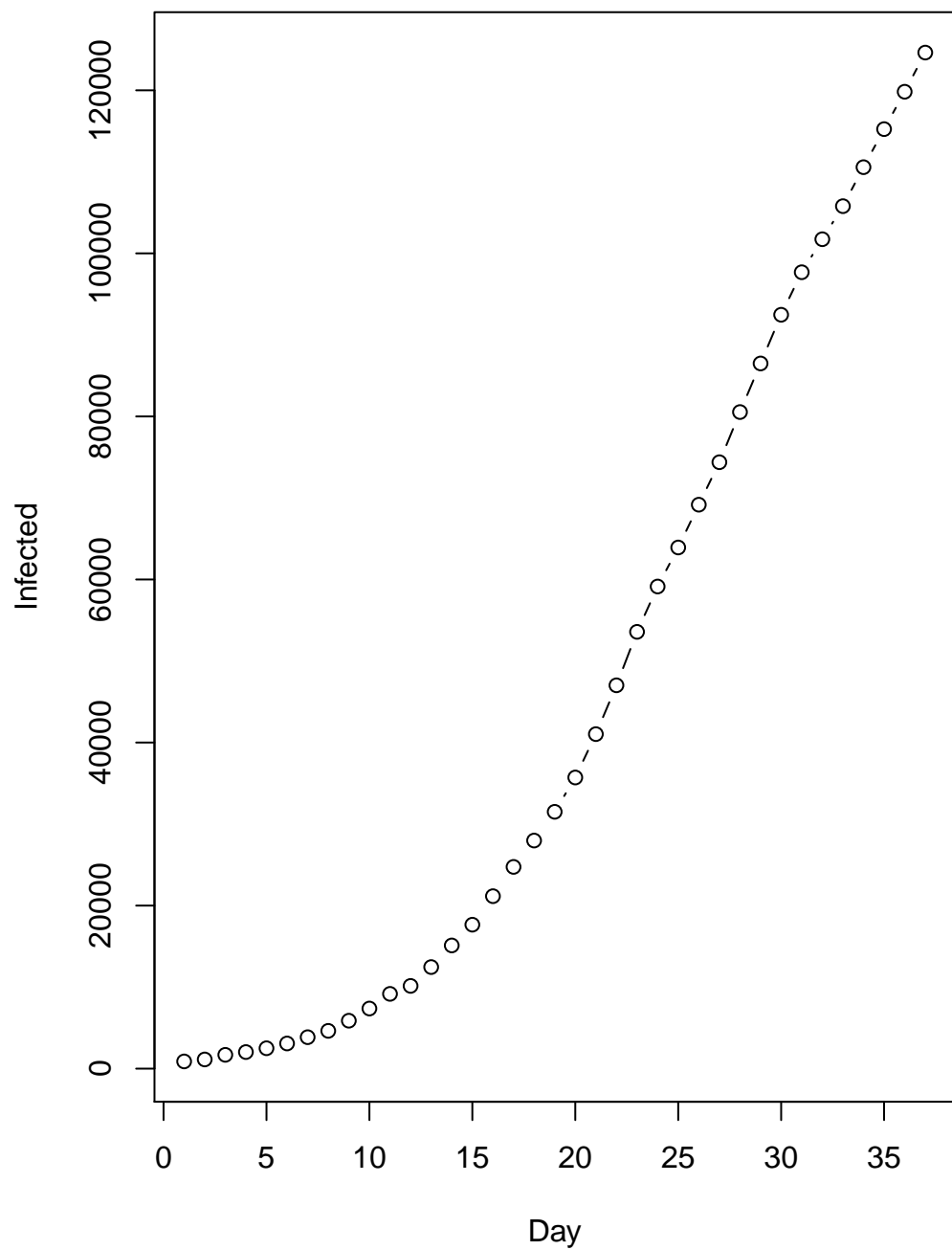
recovered



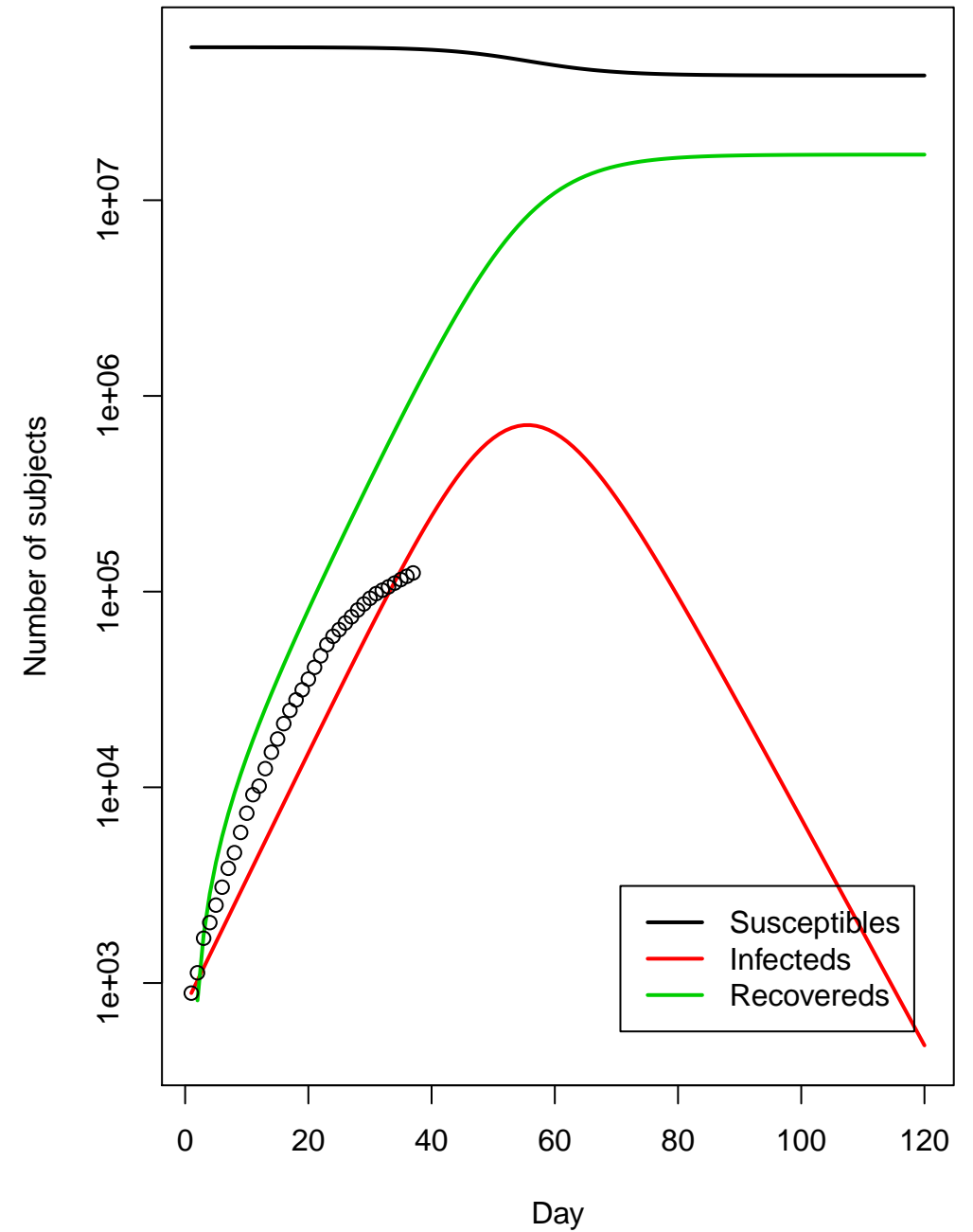
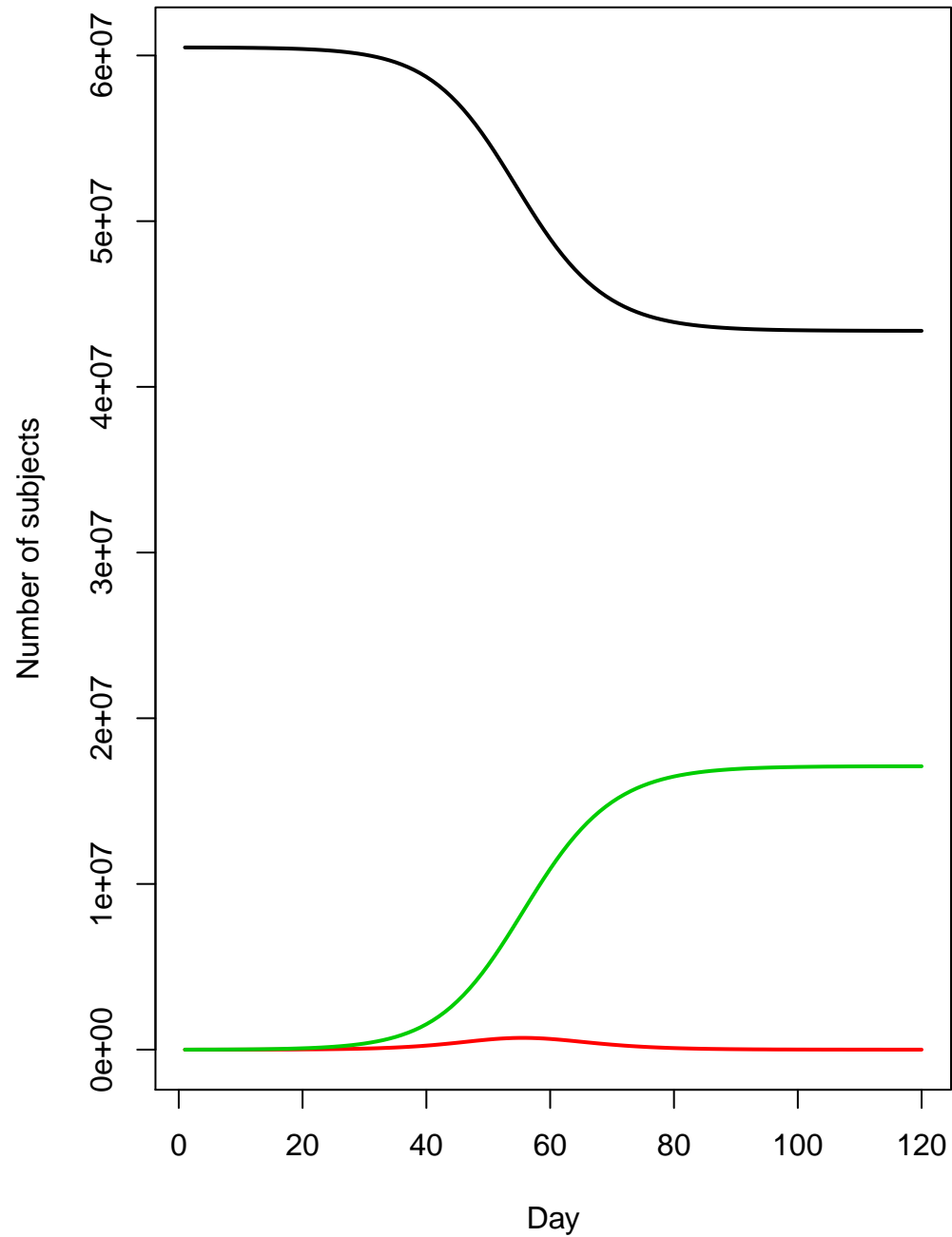
death



Total infections COVID-19 Italy

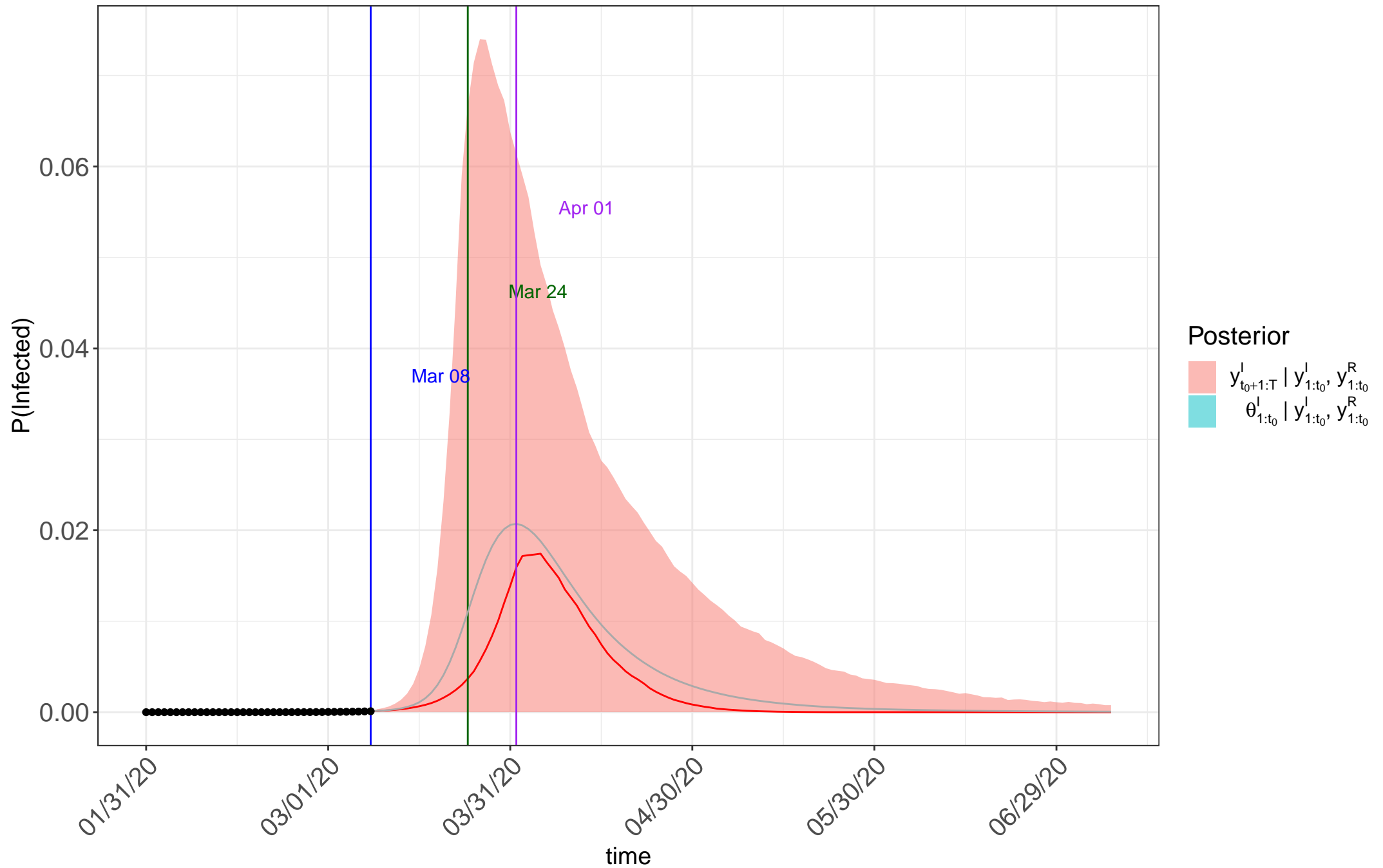


**SIR model COVID-19 Italy**



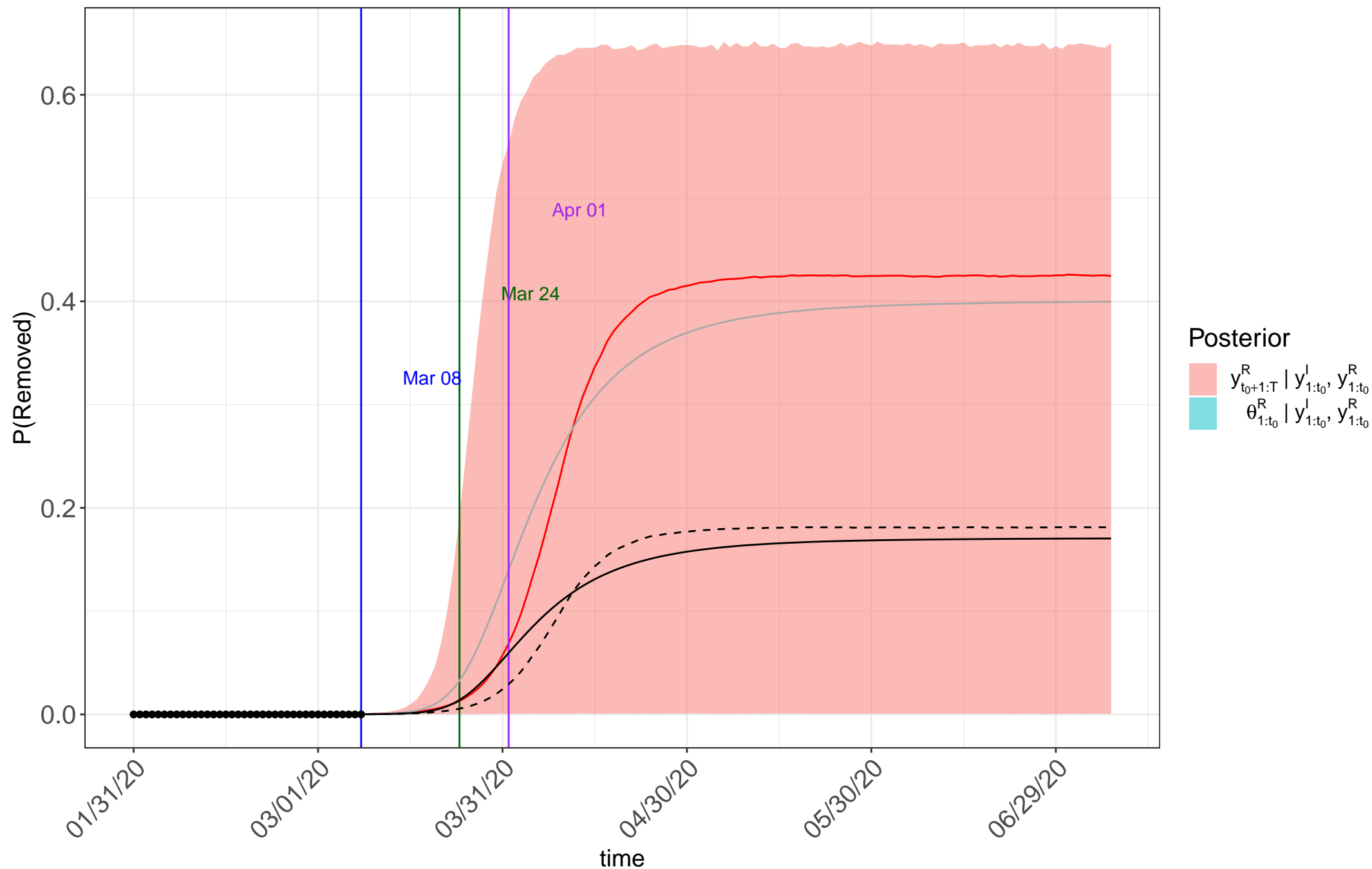
# Italy\_herd\_immunity: infection forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$

Posterior  $\beta_p=1.12, \gamma_p=0.776$  and  $R_0=1.45$



Italy\_herd\_immunity: removed forecast with prior  $\beta_0=1, \gamma_0=0.851$  and  $R_0=1.18$

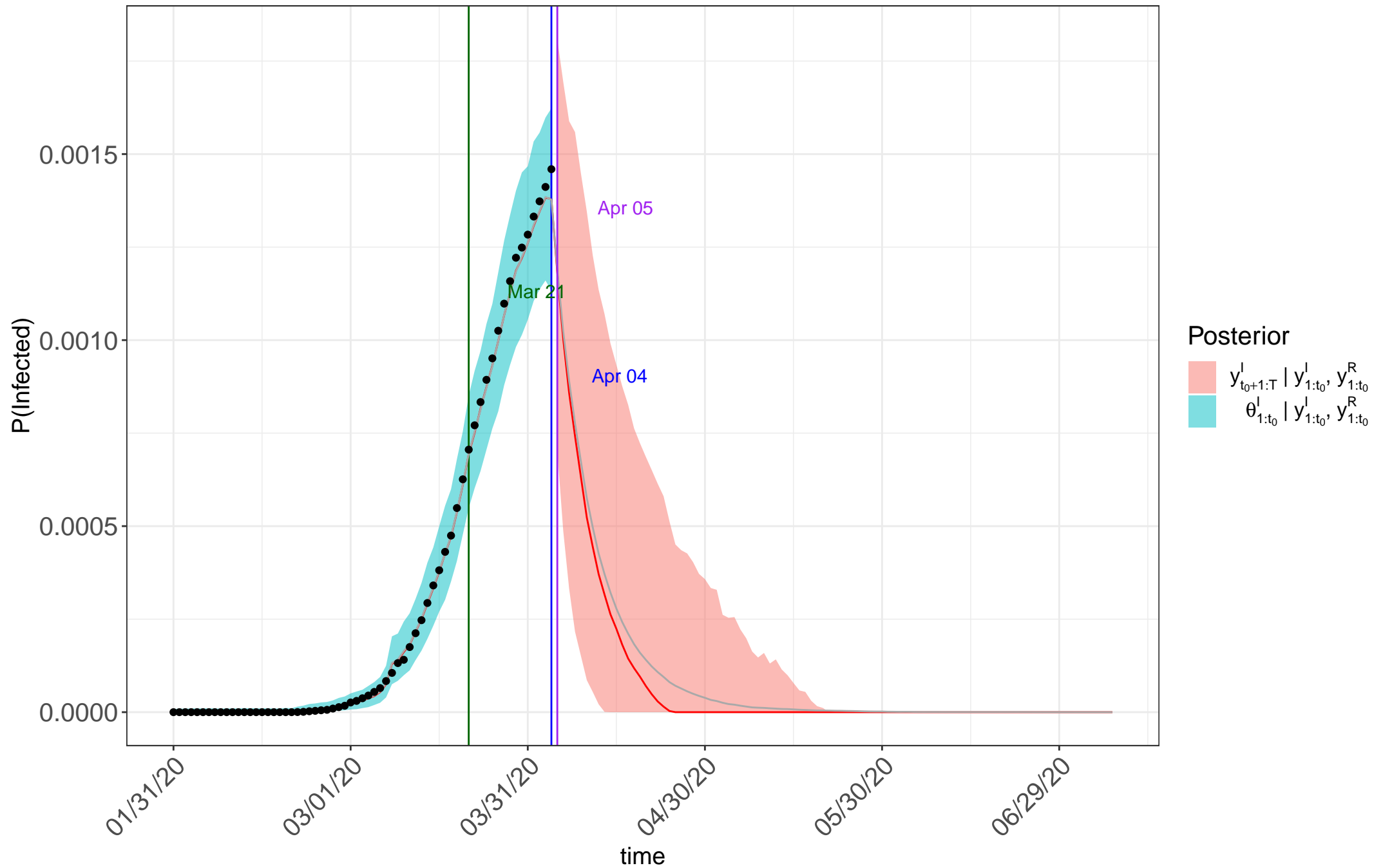
posterior:  $\beta_p=1.12, \gamma_p=0.776$  and  $R_0=1.45$





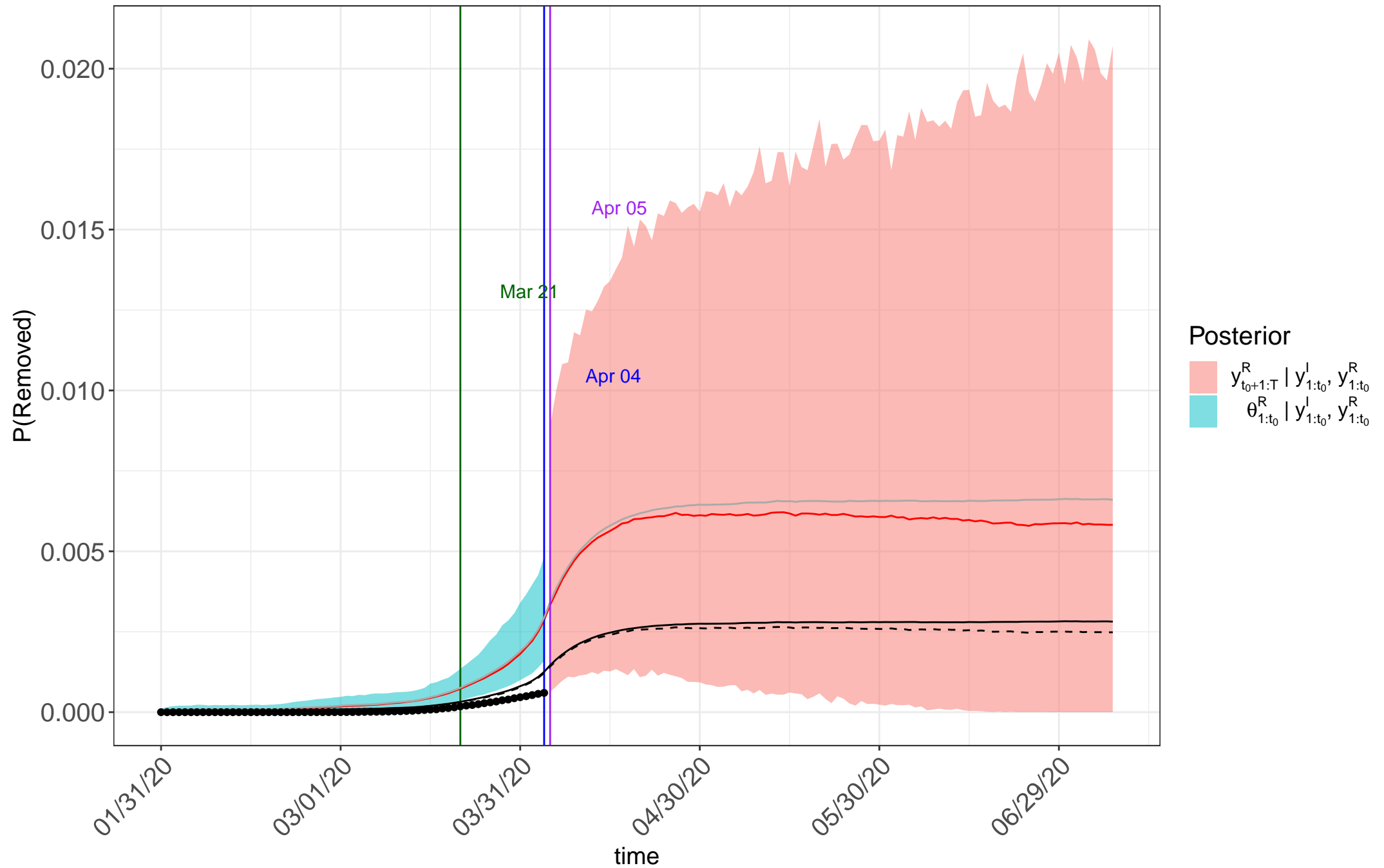
# Italy\_lockdown: infection forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$

Posterior  $\beta_p=1.54, \gamma_p=0.382$  and  $R_0=4.06$



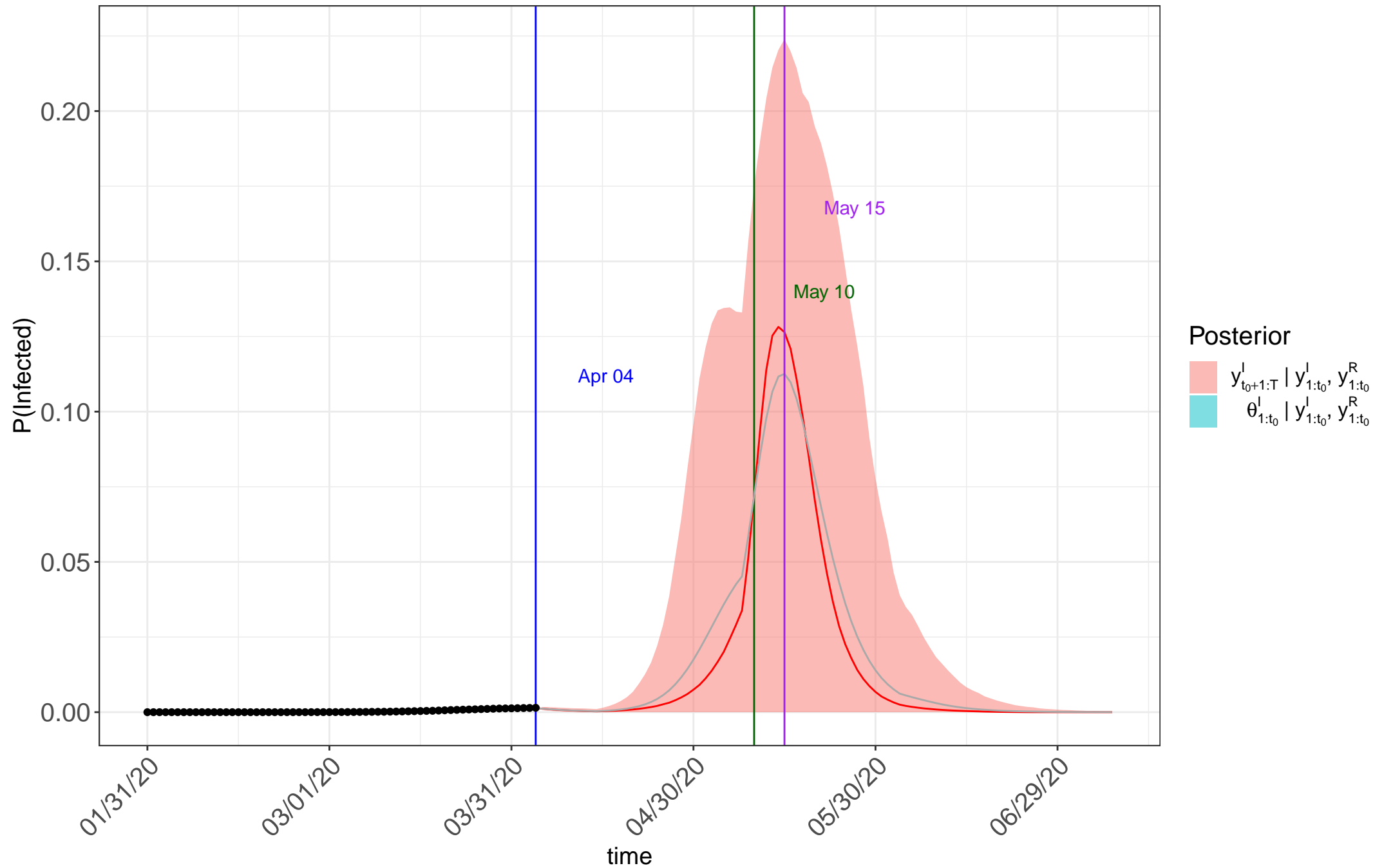
# Italy\_lockdown: removed forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$

posterior:  $\beta_p=1.54, \gamma_p=0.382$  and  $R_0=4.06$



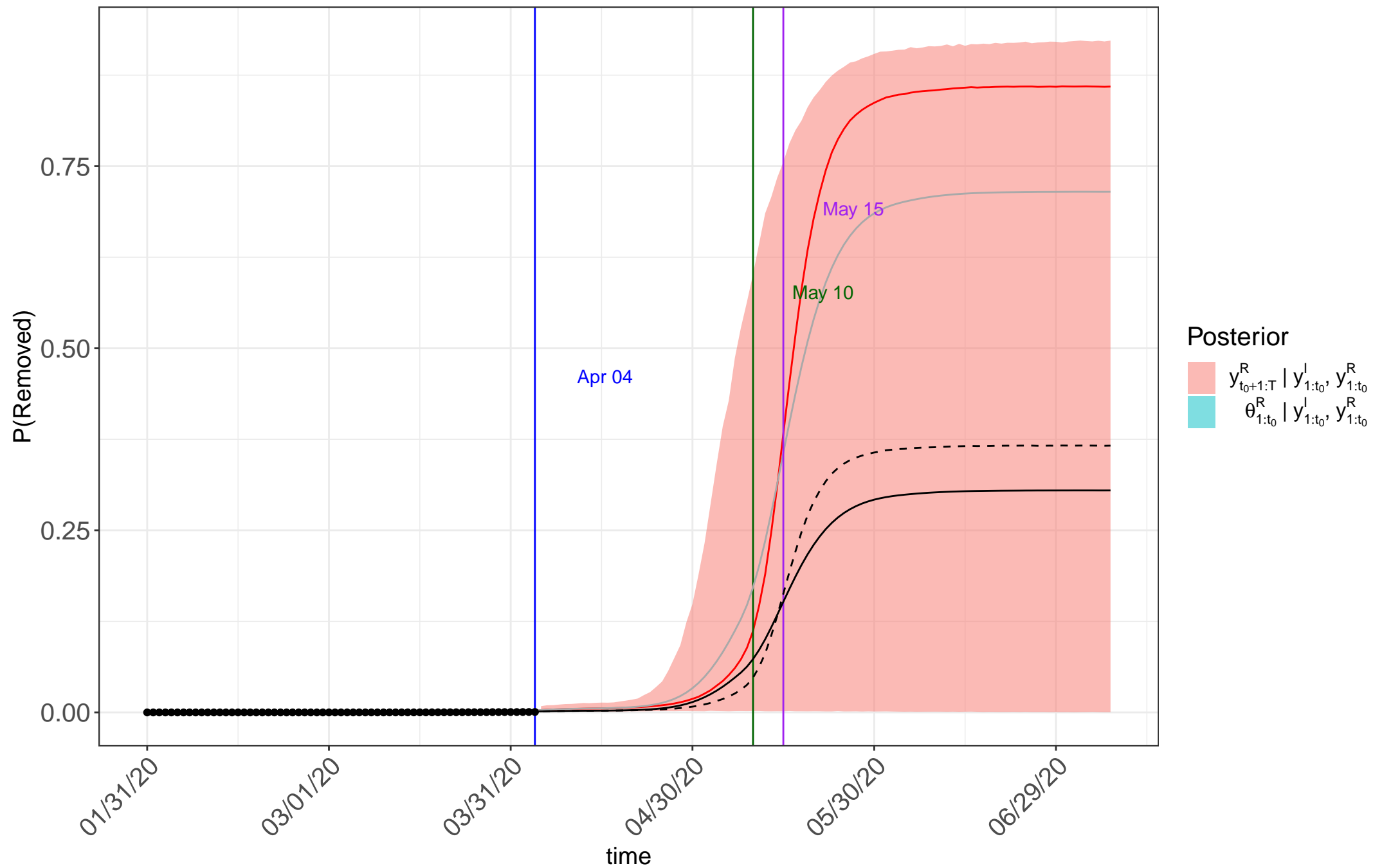
Italyafter\_easter\_reopen: infection forecast with prior  $\beta_0=1, \gamma_0=0.851$  and  $R_0=1.18$

Posterior  $\beta_p=1.54, \gamma_p=0.381$  and  $R_0=4.06$



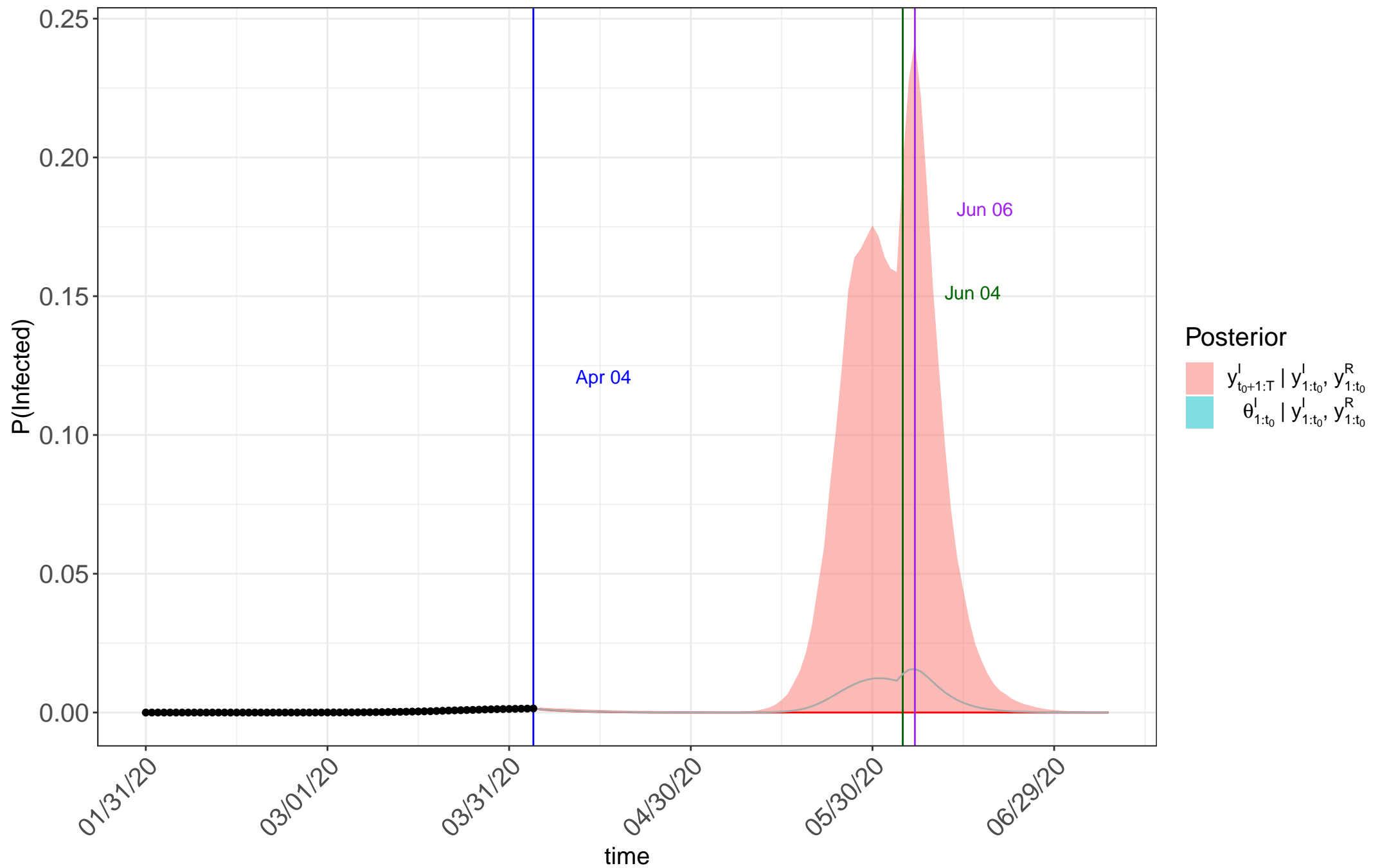
Italyafter\_easter\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.851$  and  $R_0=1.18$

posterior:  $\beta_p=1.54, \gamma_p=0.381$  and  $R_0=4.06$



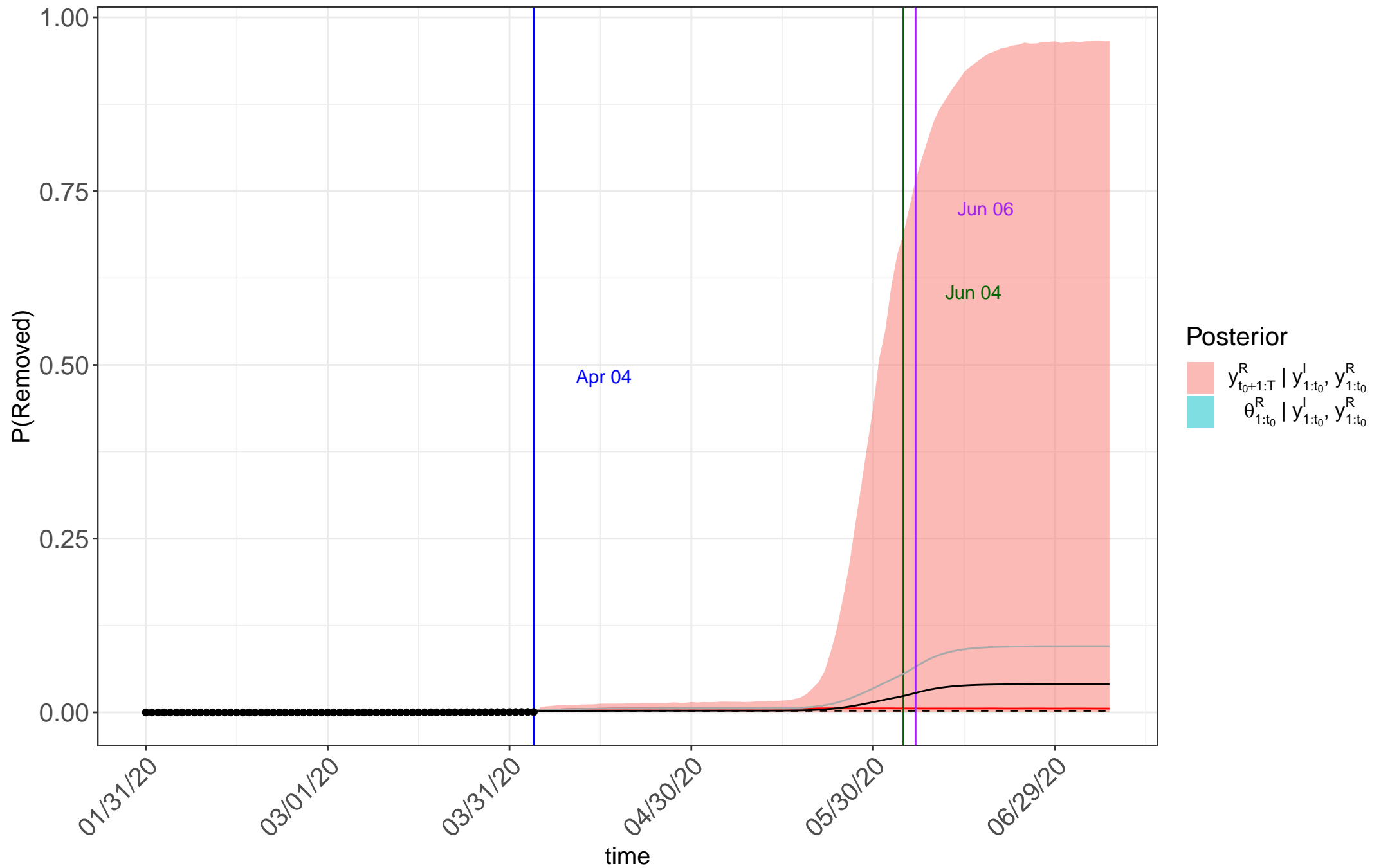
# Italystep\_after\_1\_may\_reopen: infection forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$

Posterior  $\beta_p=1.52, \gamma_p=0.375$  and  $R_0=4.08$



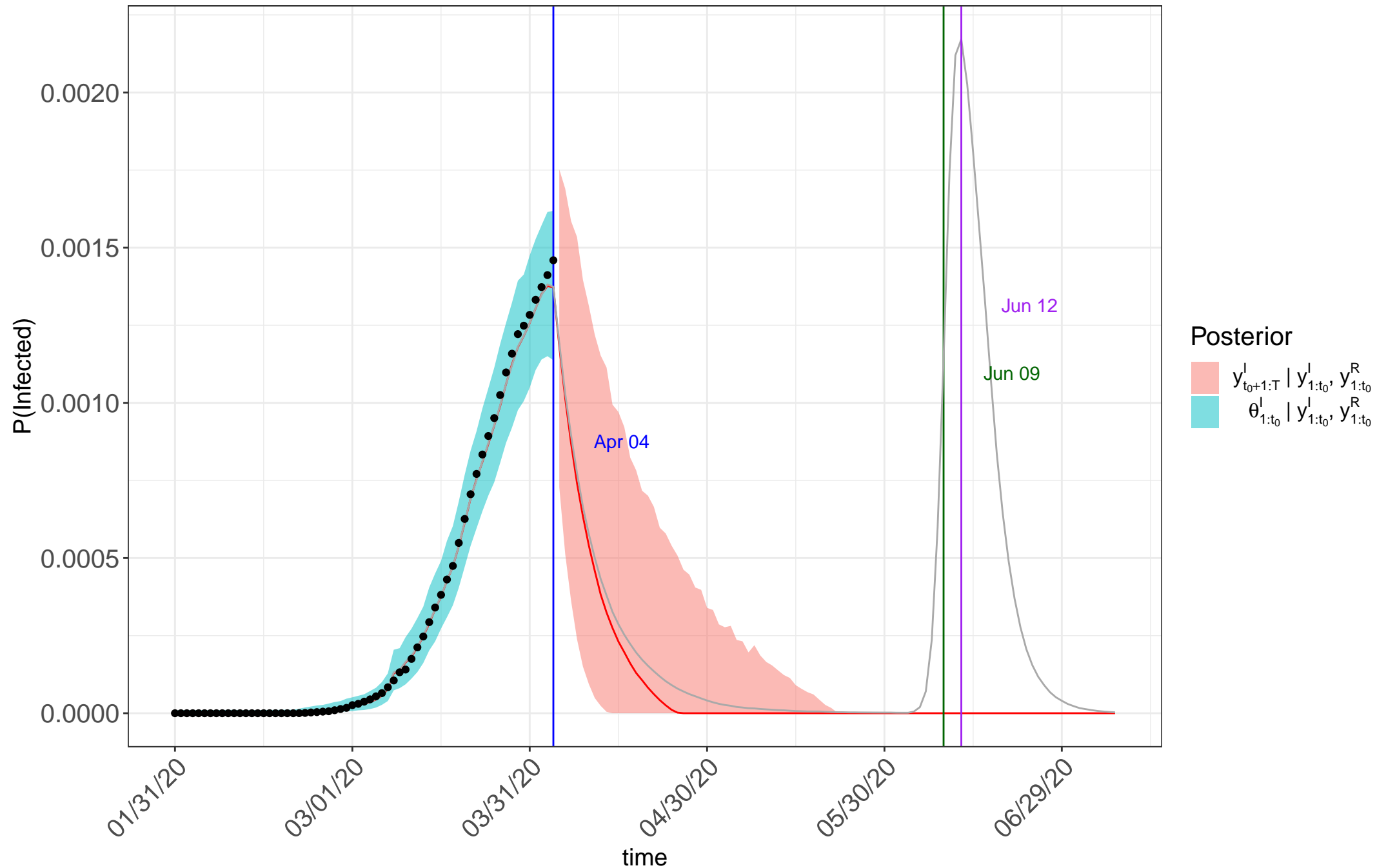
Italystep\_after\_1\_may\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.851$  and  $R_0=1.18$

posterior:  $\beta_p=1.52, \gamma_p=0.375$  and  $R_0=4.08$



# Italyafter\_2\_june\_reopen: infection forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$

Posterior  $\beta_p=1.51, \gamma_p=0.373$  and  $R_0=4.07$



Italyafter\_2\_june\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.851$  and  $R_0=1.18$

posterior:  $\beta_p=1.51, \gamma_p=0.373$  and  $R_0=4.07$

