confirmed

active

recovered
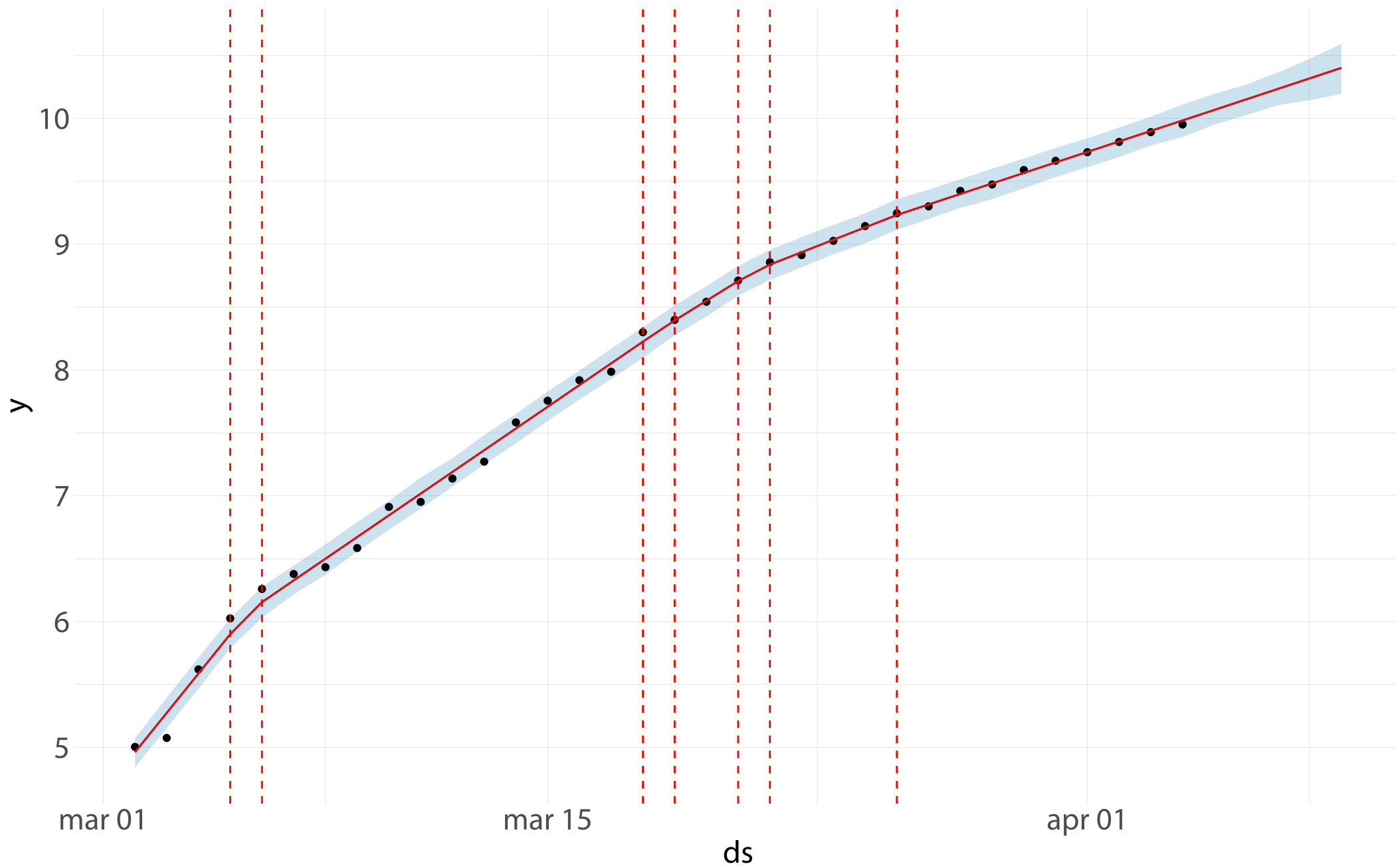
death
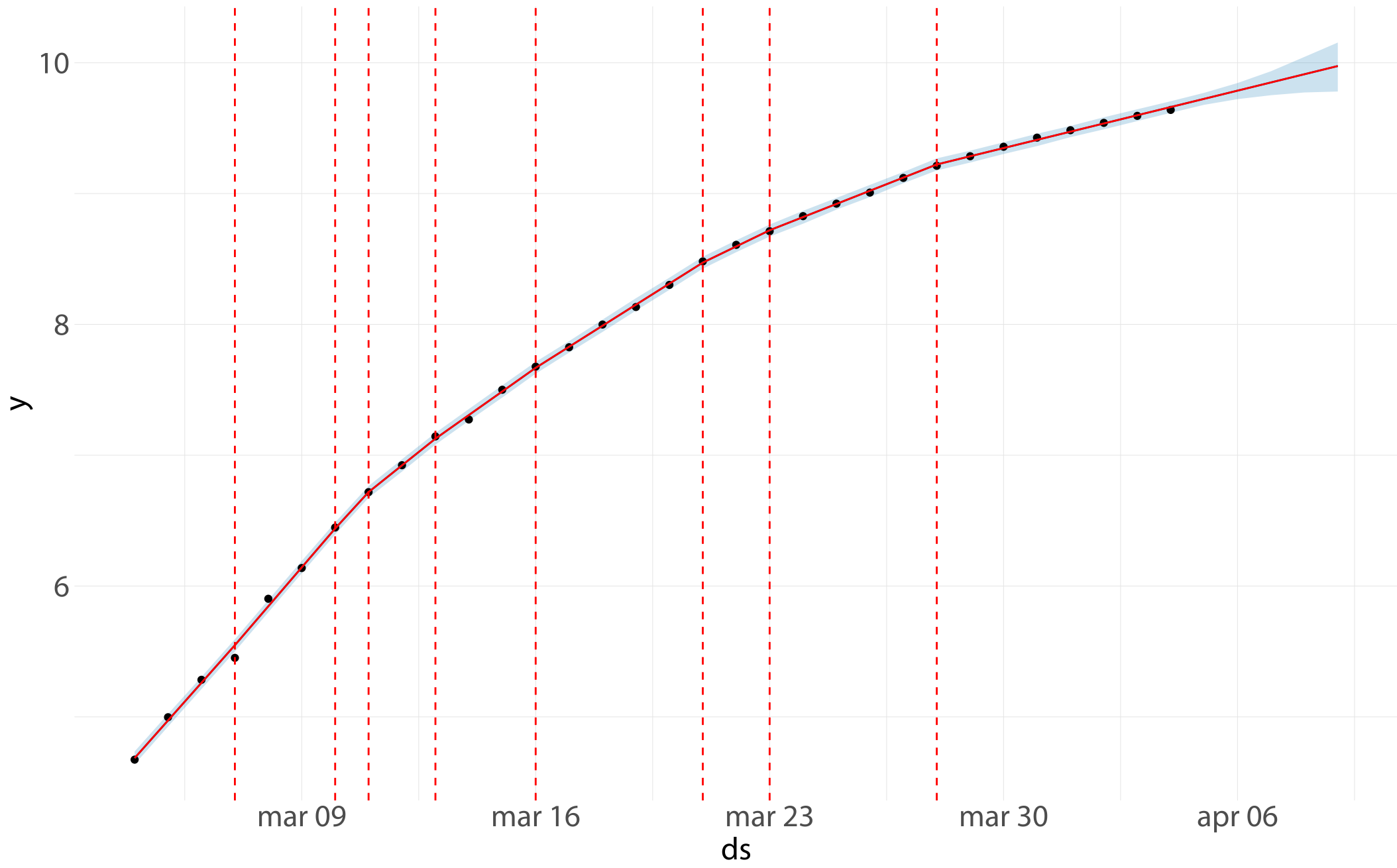
Total infections COVID-19 Italy

SIR model COVID-19 Italy

Italy_step: infection forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$
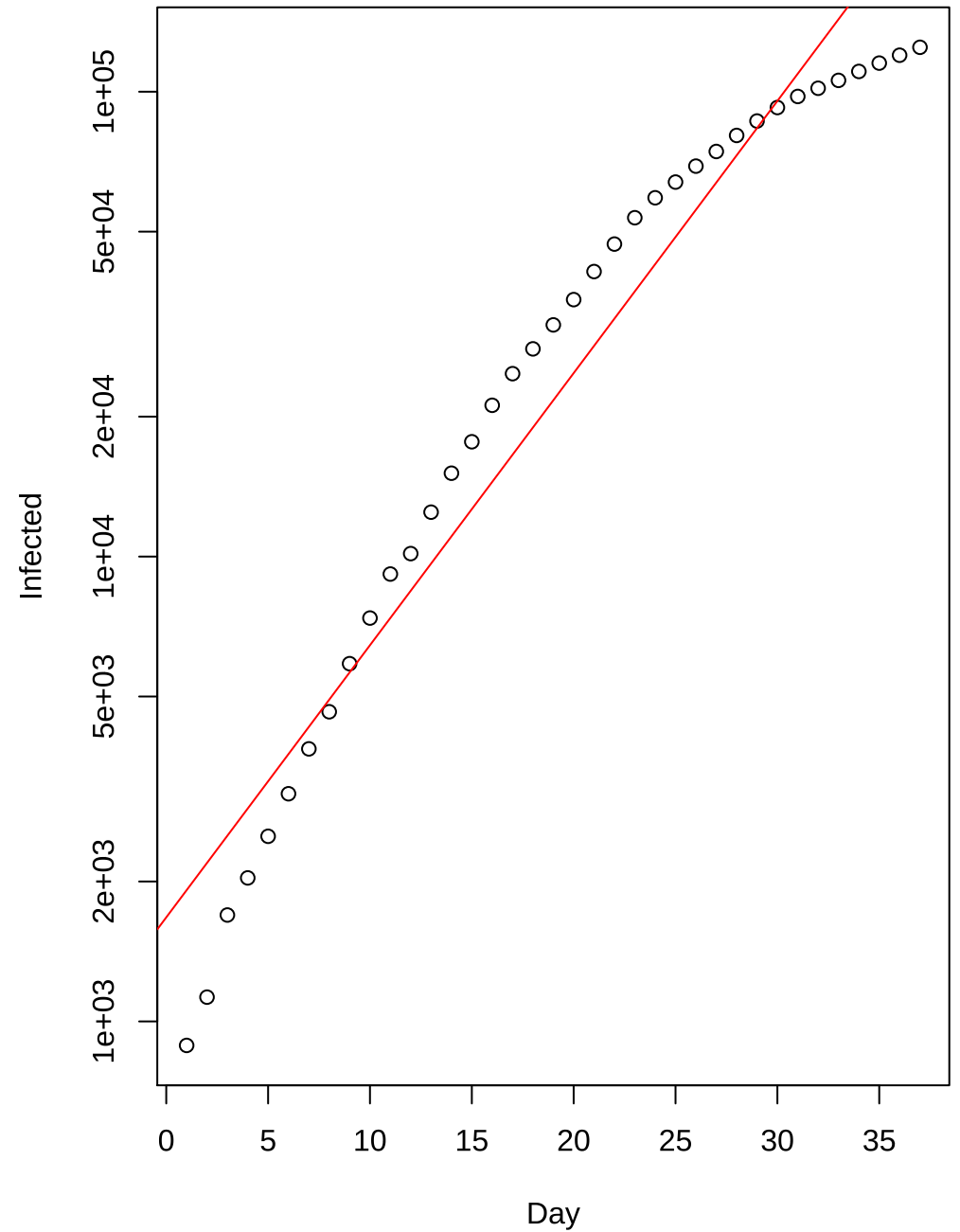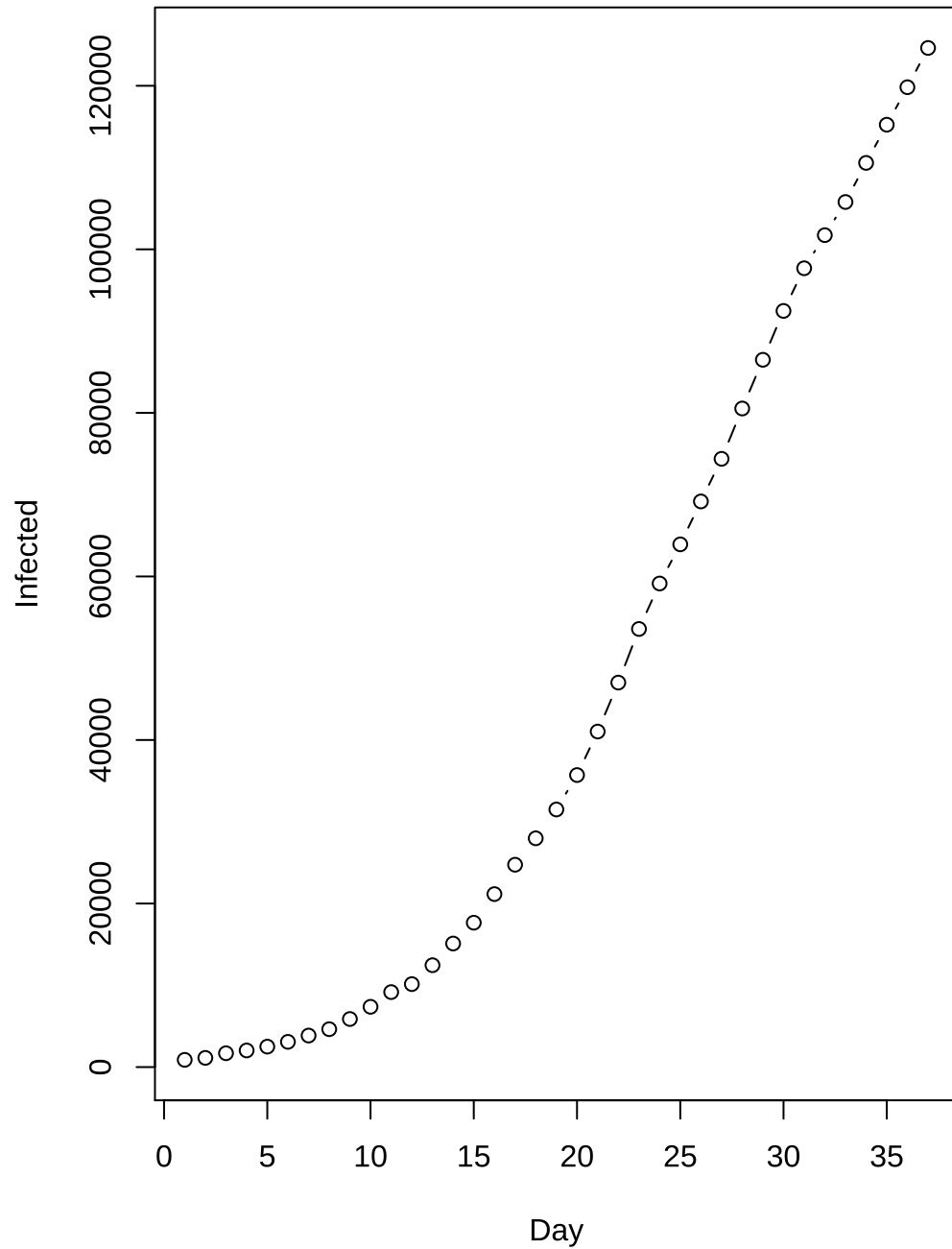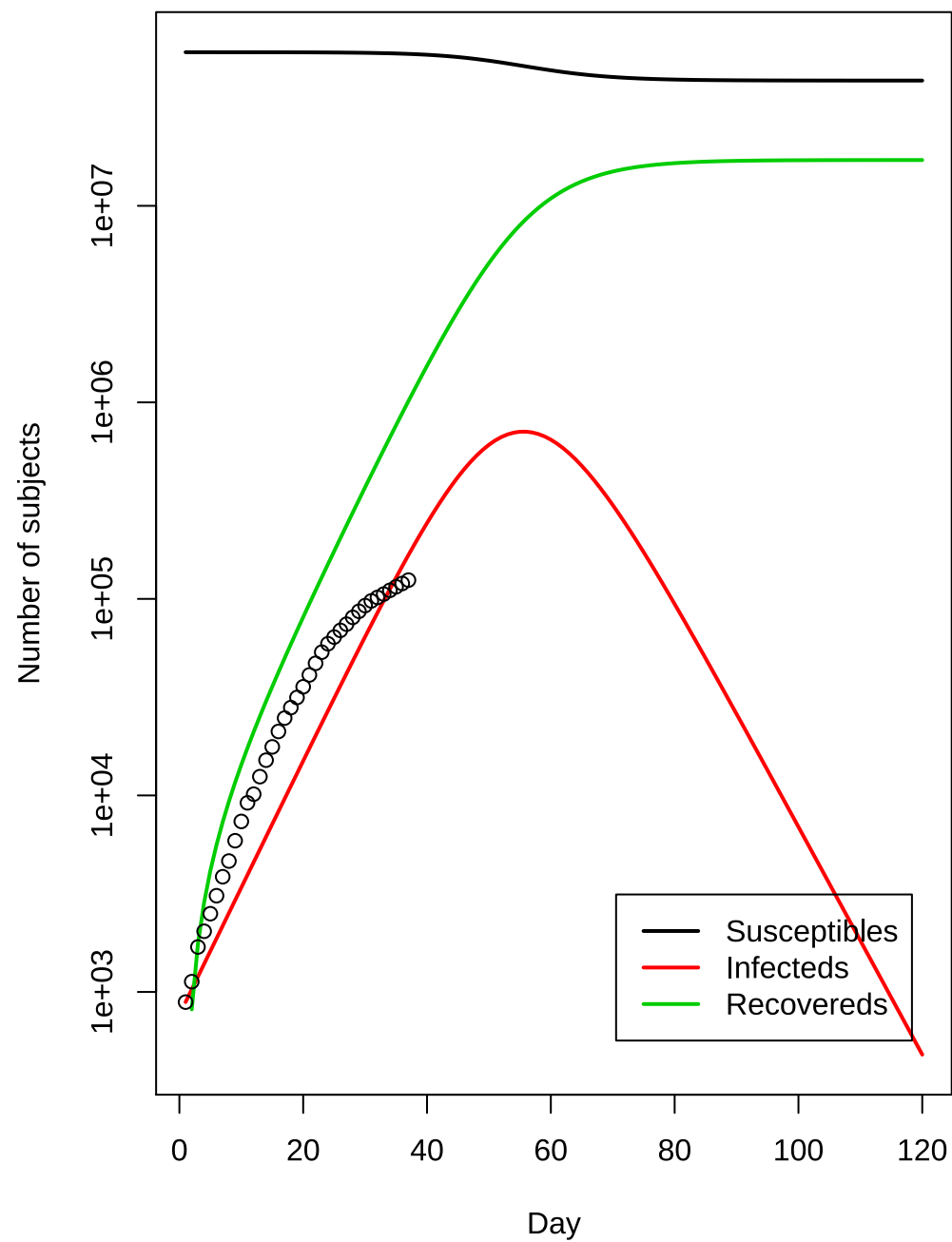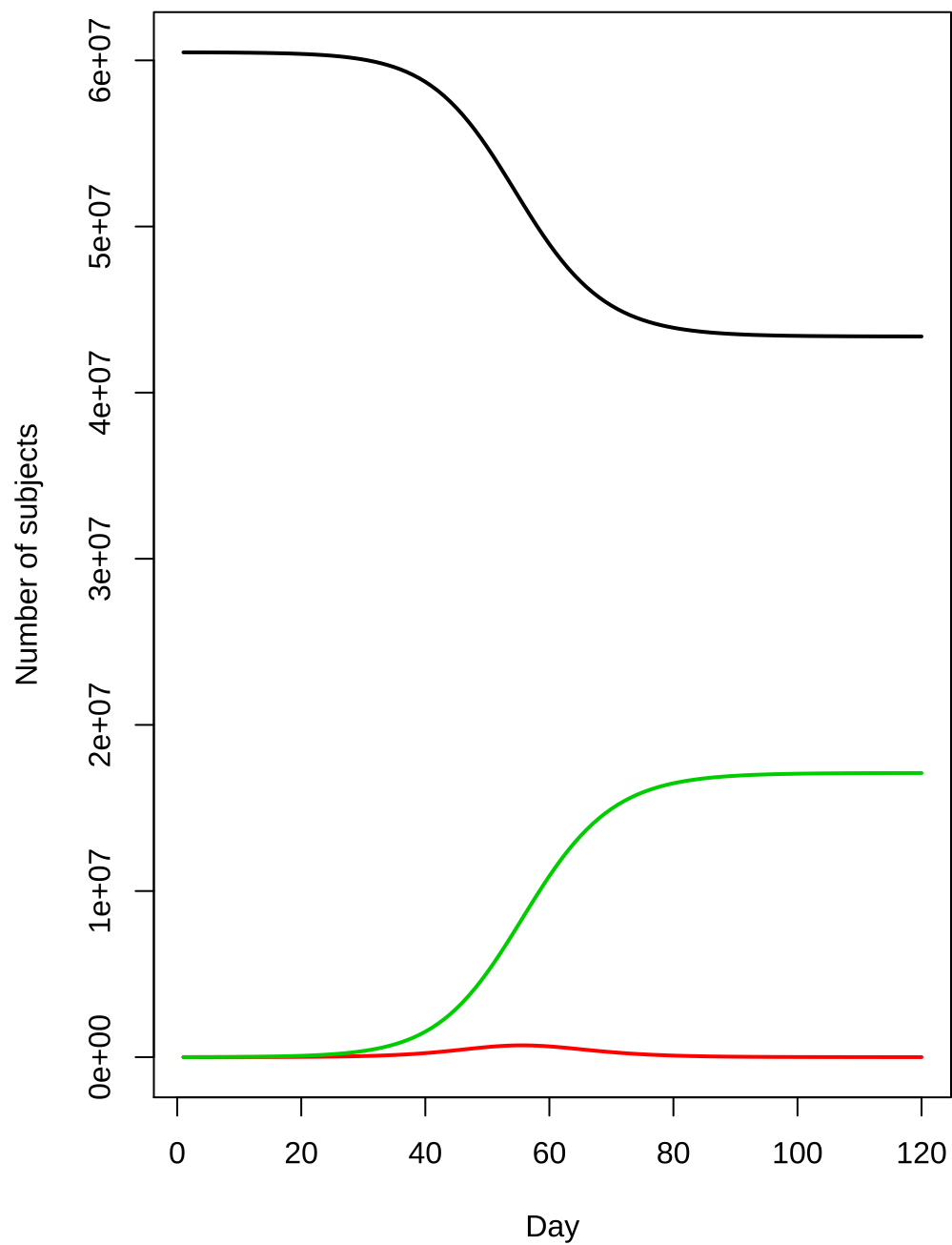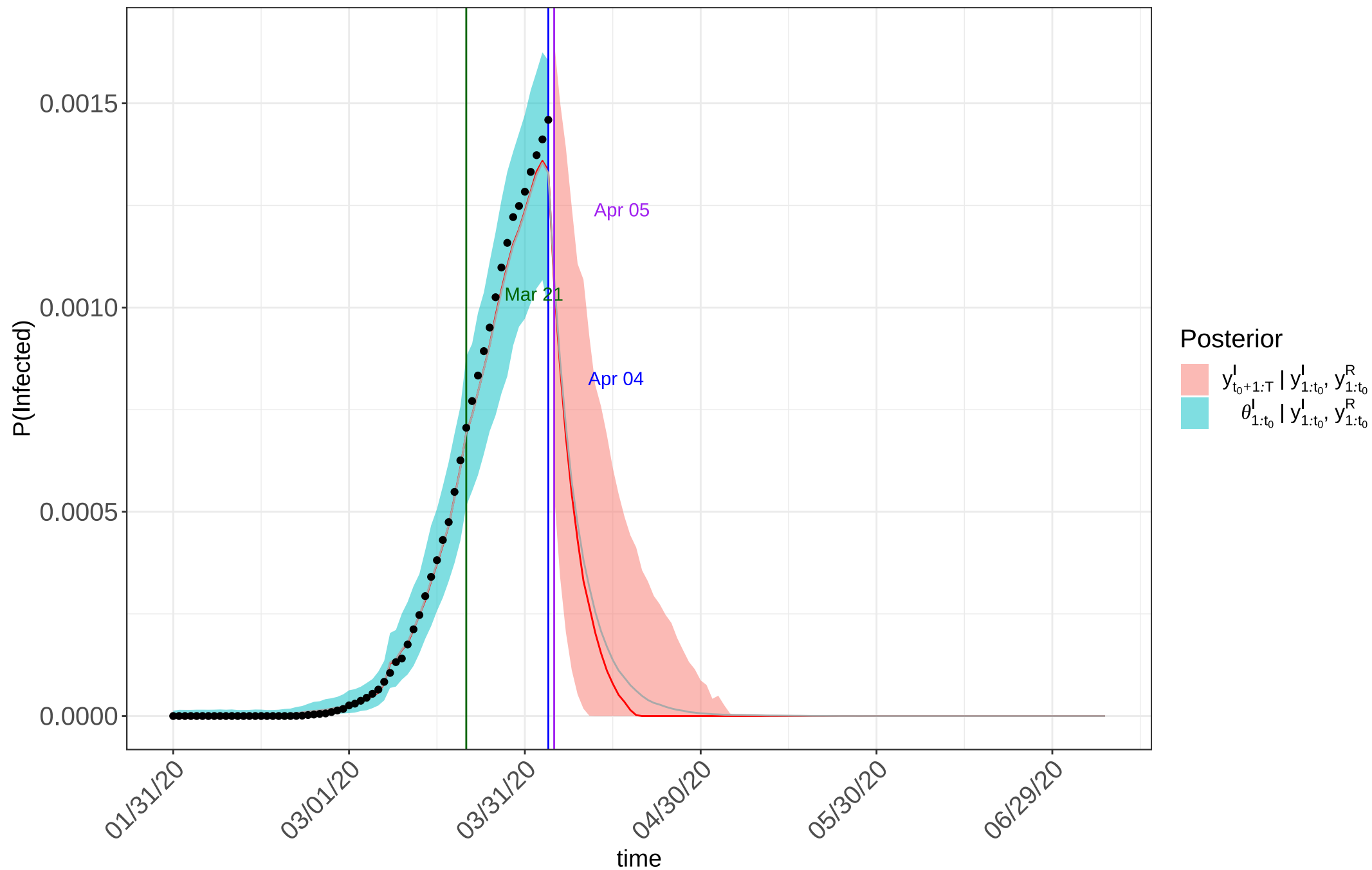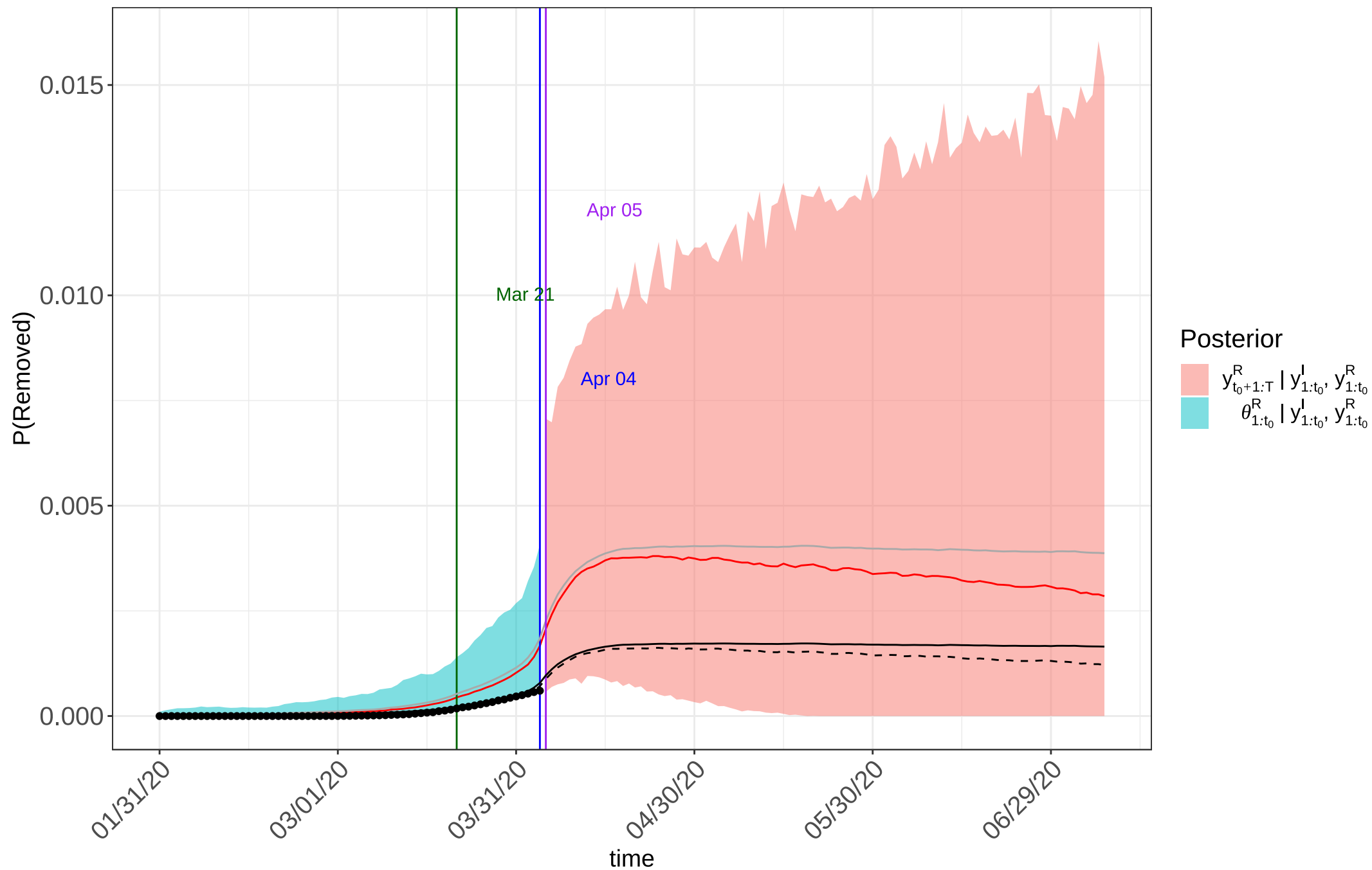
Posterior $\beta_p=1.43, \gamma_p=0.356$ and $R_0=4.04$

Italy_step: removed forecast with prior $\beta_0=1, \gamma_0=0.851$ and $R_0=1.18$
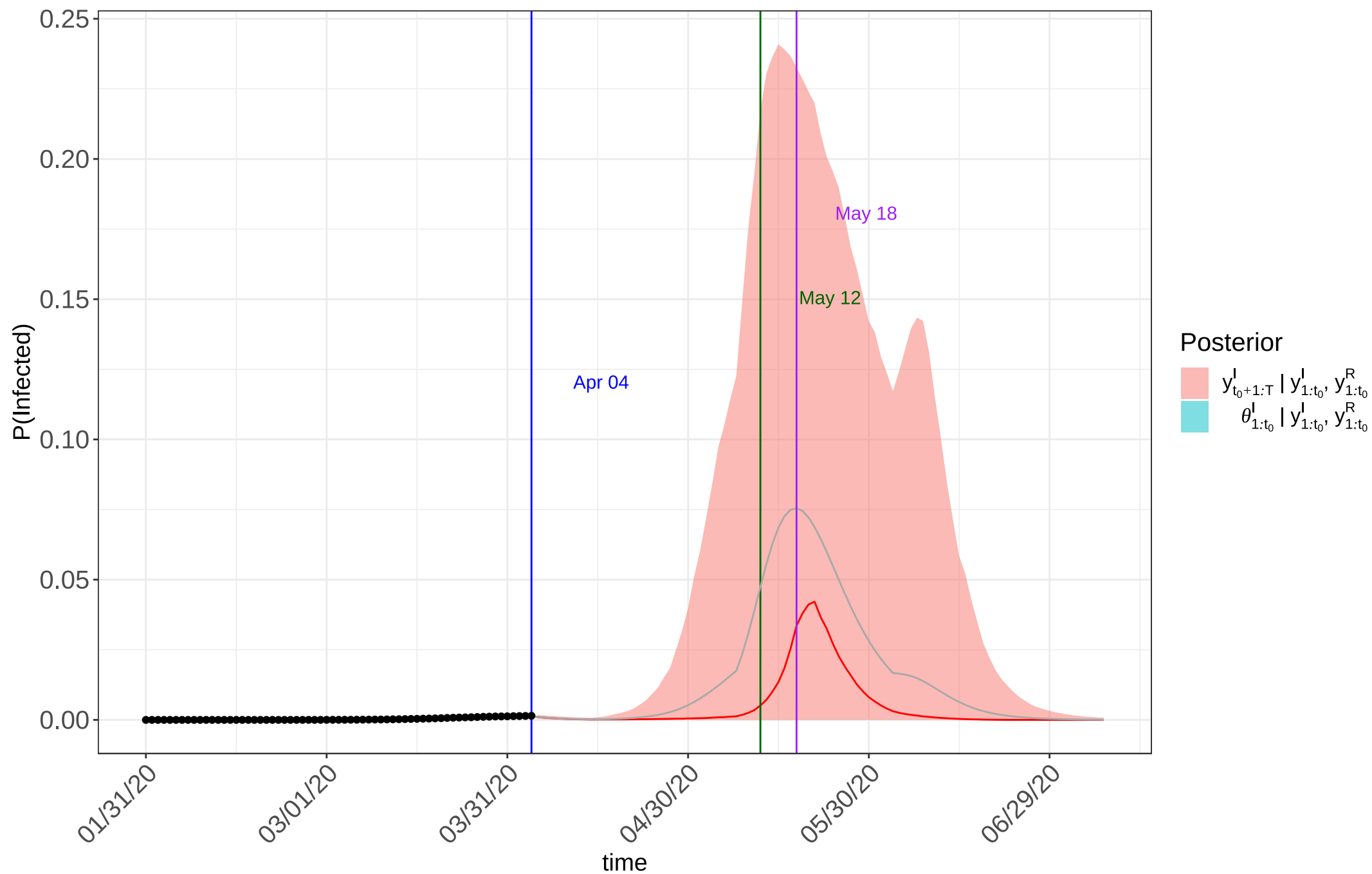
posterior: $\beta_p=1.43, \gamma_p=0.356$ and $R_0=4.04$

Apr 05

Mar 21

Apr 04

Posterior

$y^R_{t_0+1:T} \mid y^I_{1:t_0}, y^R_{1:t_0}$

$\theta^R_{1:t_0} \mid y^I_{1:t_0}, y^R_{1:t_0}$

P(Removed)

time

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

Posterior $\beta_p=1.26, \gamma_p=0.334$ and $R_0=3.8$

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

posterior: $\beta_p=1.26, \gamma_p=0.334$ and $R_0=3.8$