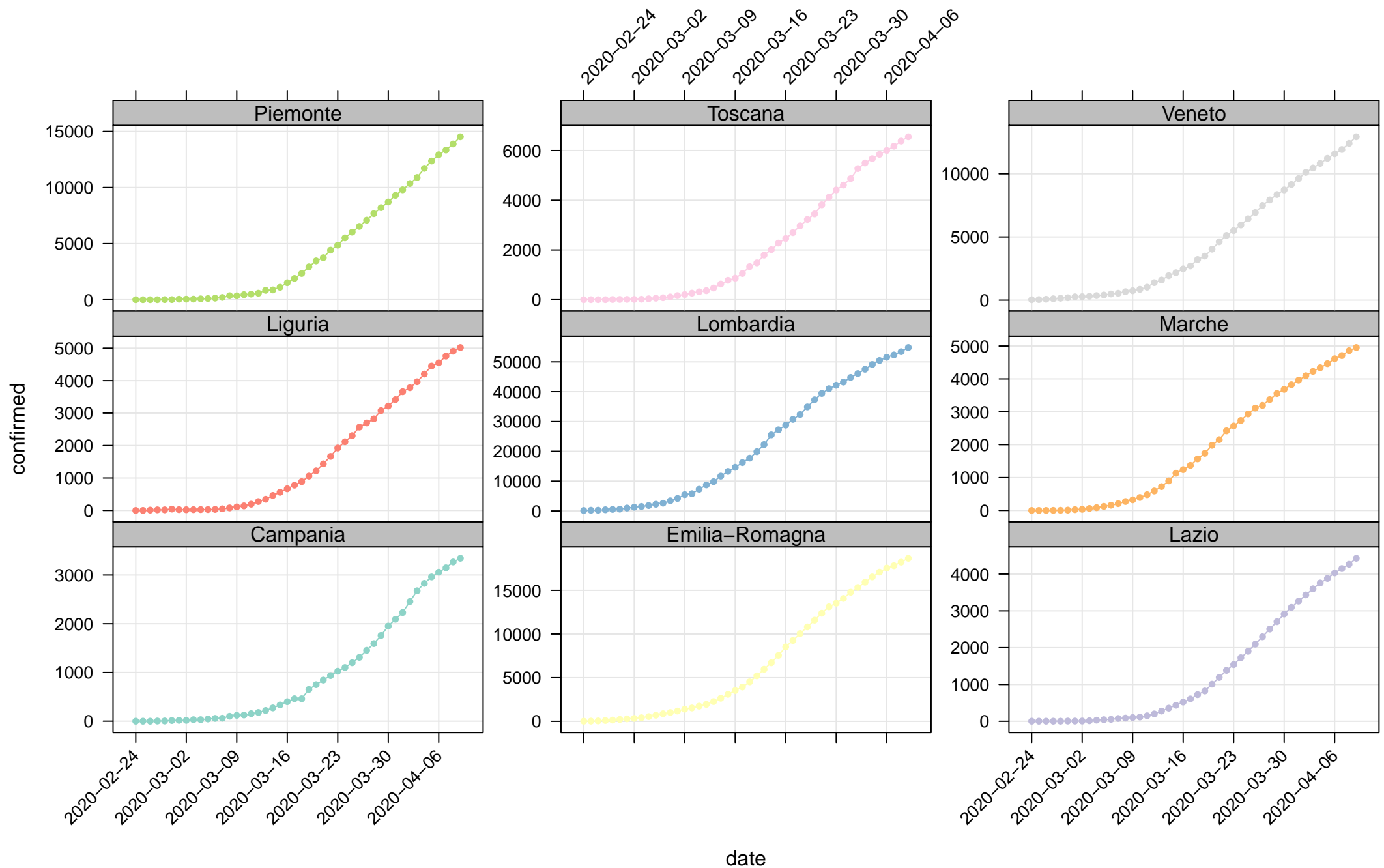
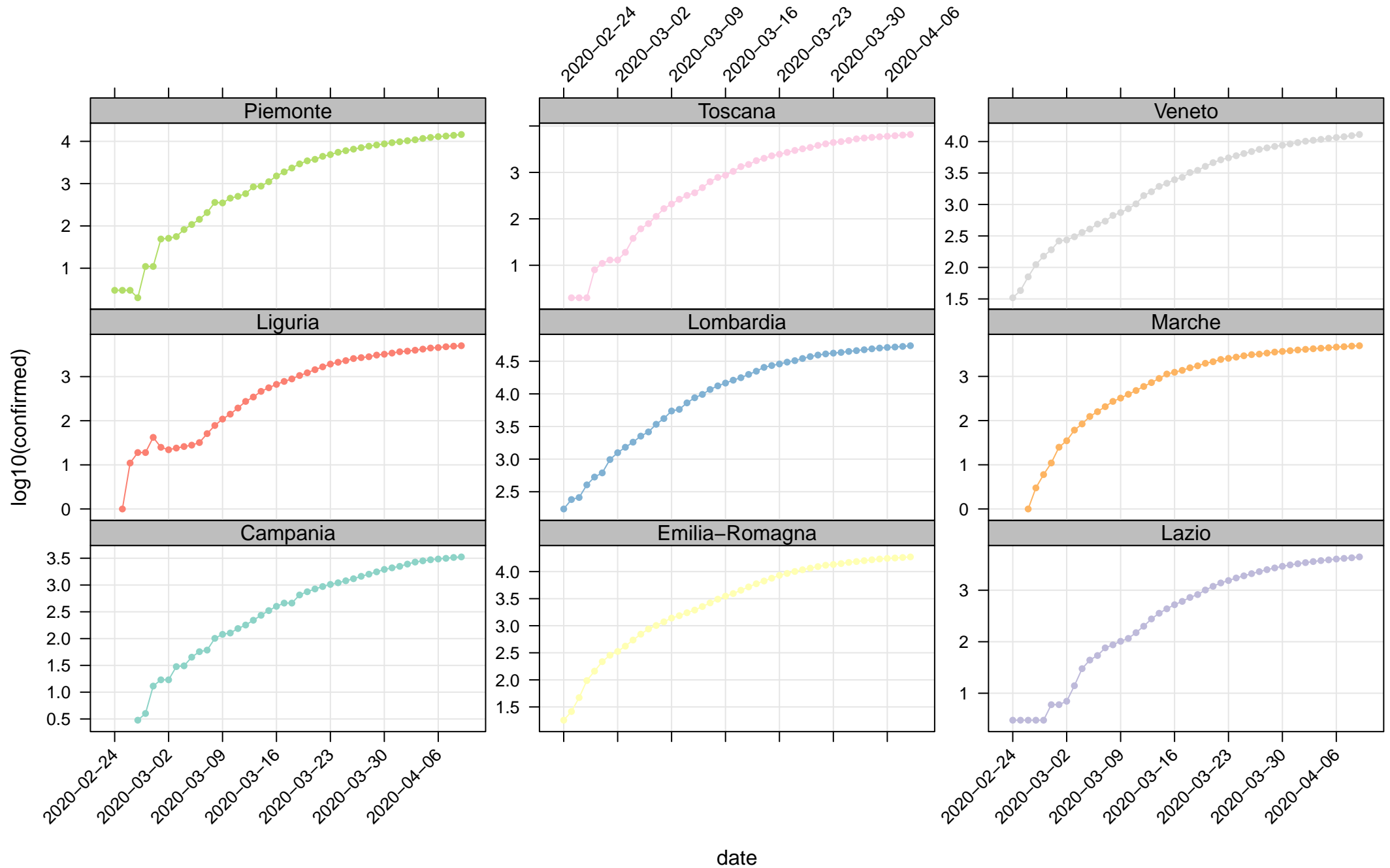


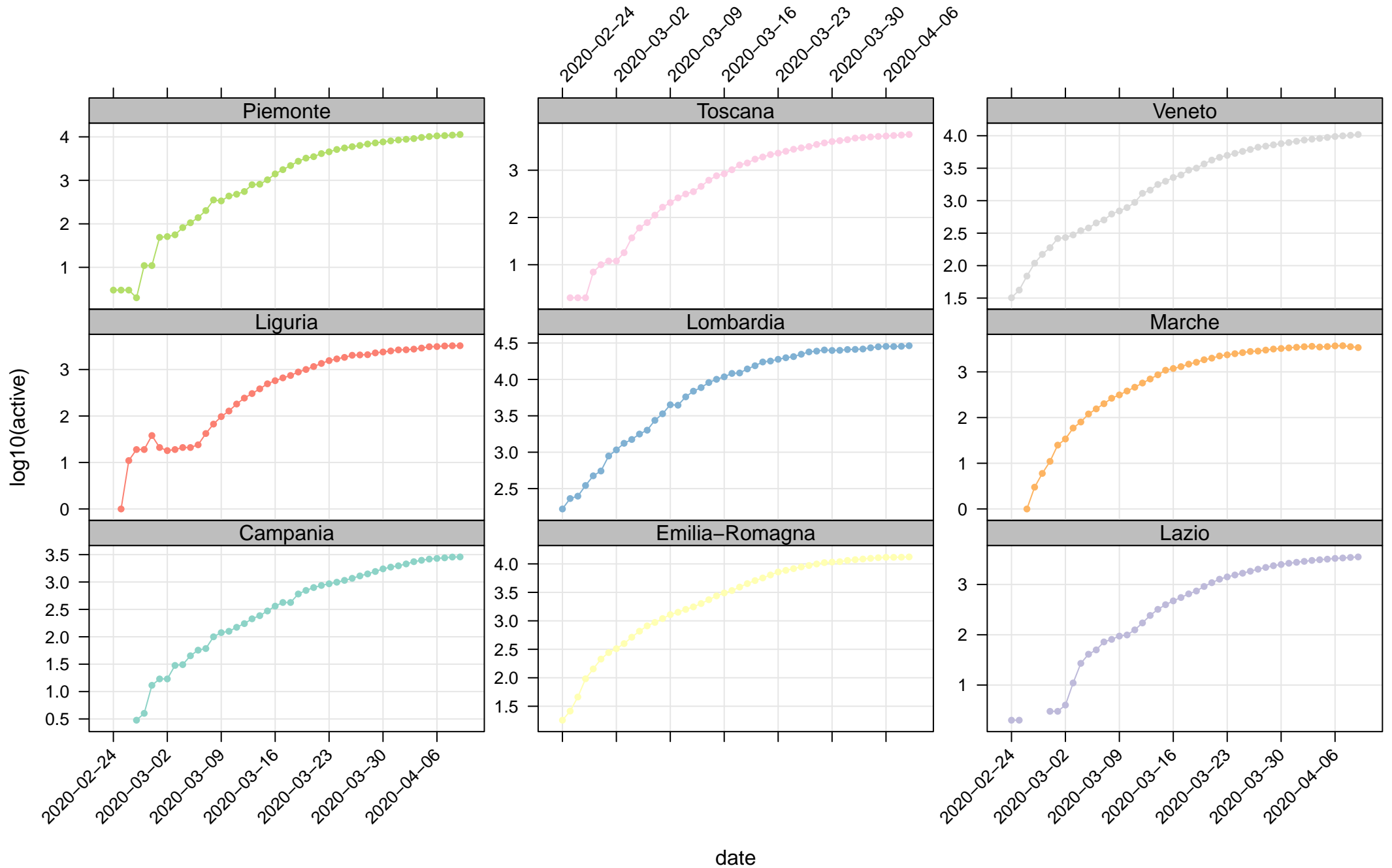
**ITALY – Confirmed cases of COVID-19**  
**(last date in this graph is 2020-04-09)**



**ITALY – Log 10 Confirmed cases of COVID-19**  
(last date in this graph is 2020-04-09)

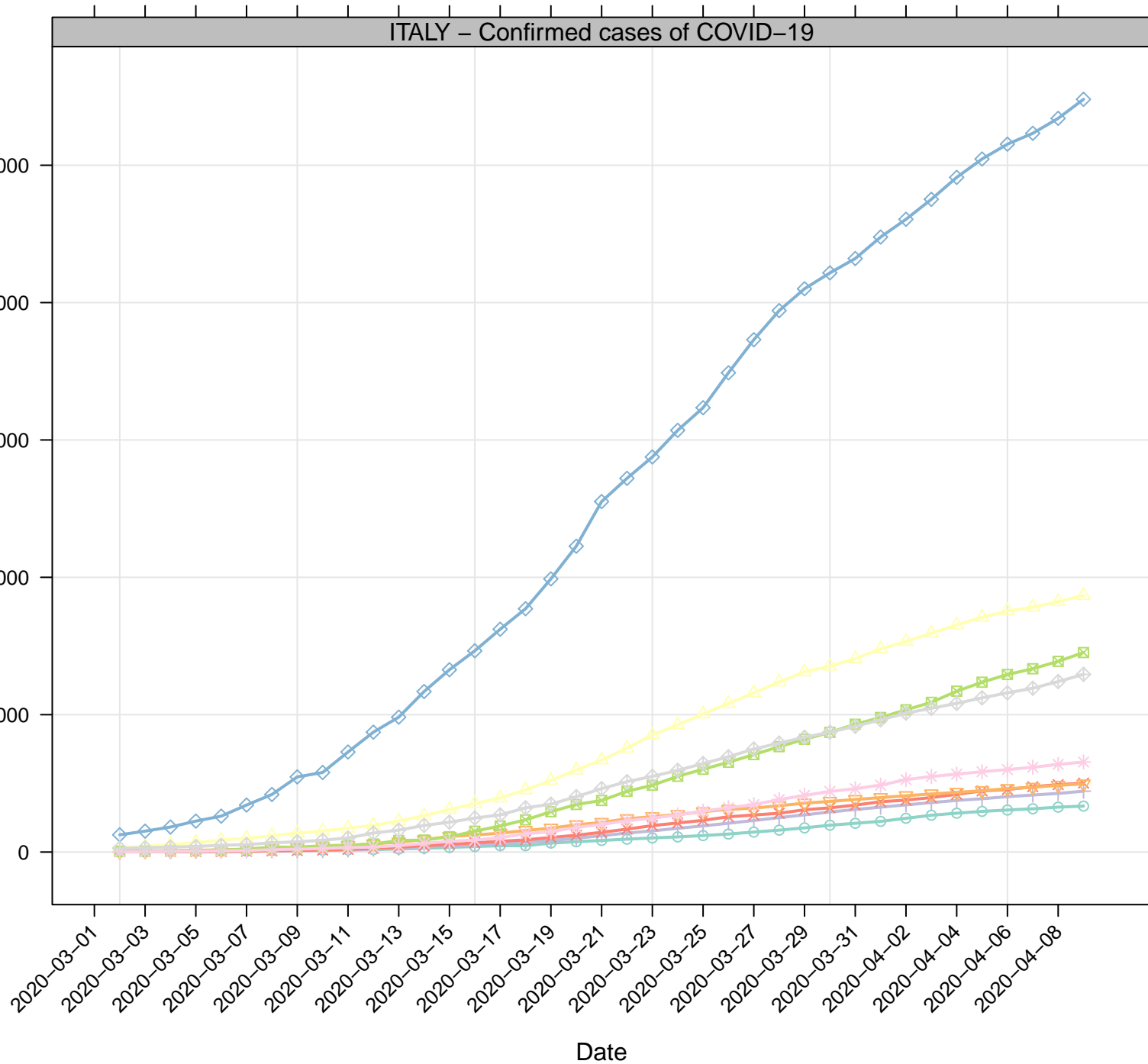


**ITALY – Log 10 Active cases of COVID-19**  
**(last date in this graph is 2020-04-09)**



ITALY – Confirmed cases of COVID-19

log10 of number of new COVID-19 cases

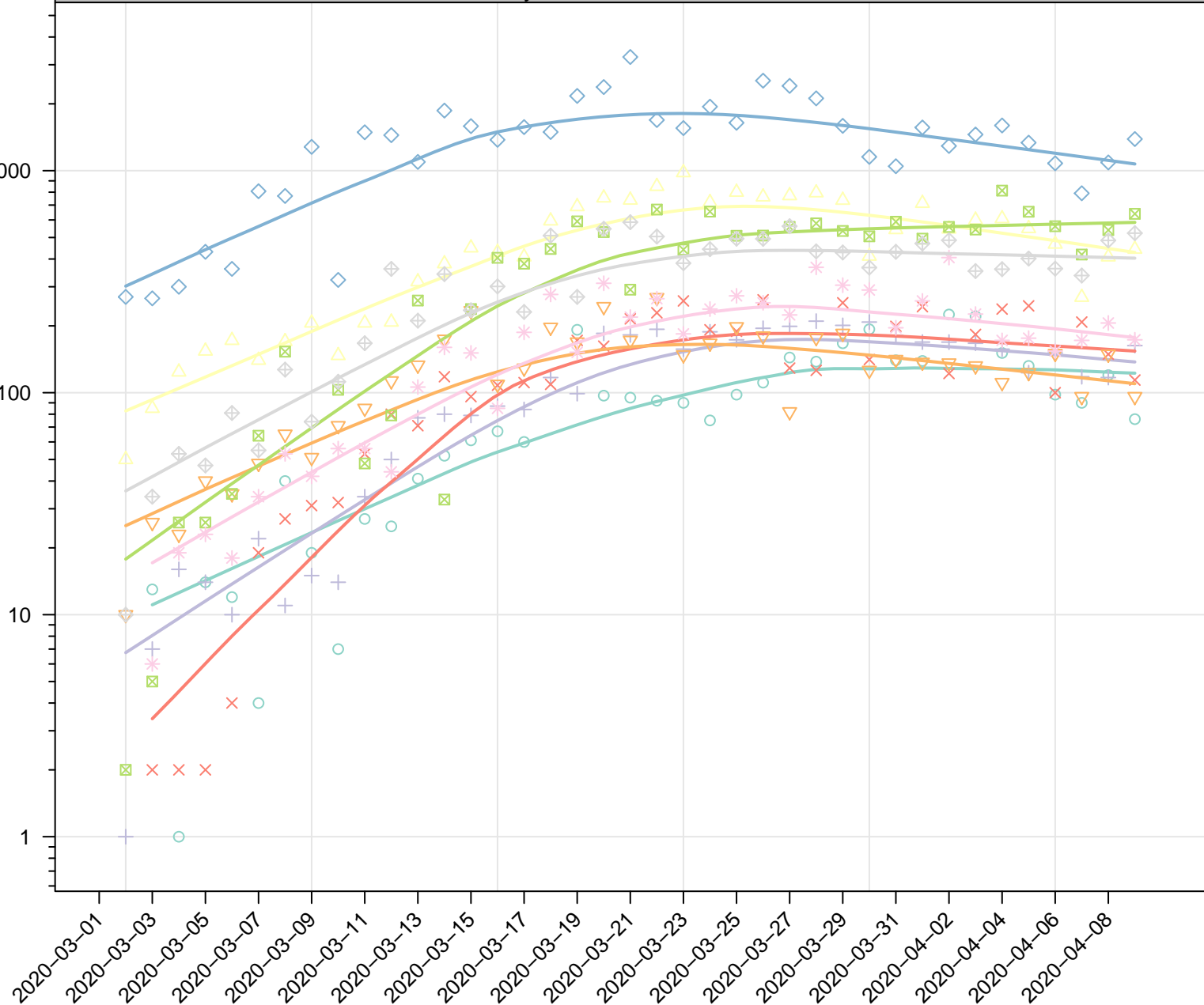


## Countries

- Campania
- Emilia-Romagna
- Lazio
- Liguria
- Lombardia
- Marche
- Piemonte
- Toscana
- Veneto

ITALY – Newly confirmed cases of COVID-19

number of new COVID-19 cases



## Countries

- Campania
- Emilia-Romagna
- Lazio
- Liguria
- Lombardia
- Marche
- Piemonte
- Toscana
- Veneto

ITALY – Daily deaths (weekly moving average)

number of cases (7 days rolling mean)

400  
300  
200  
100  
0

0

5

10

15

20

25

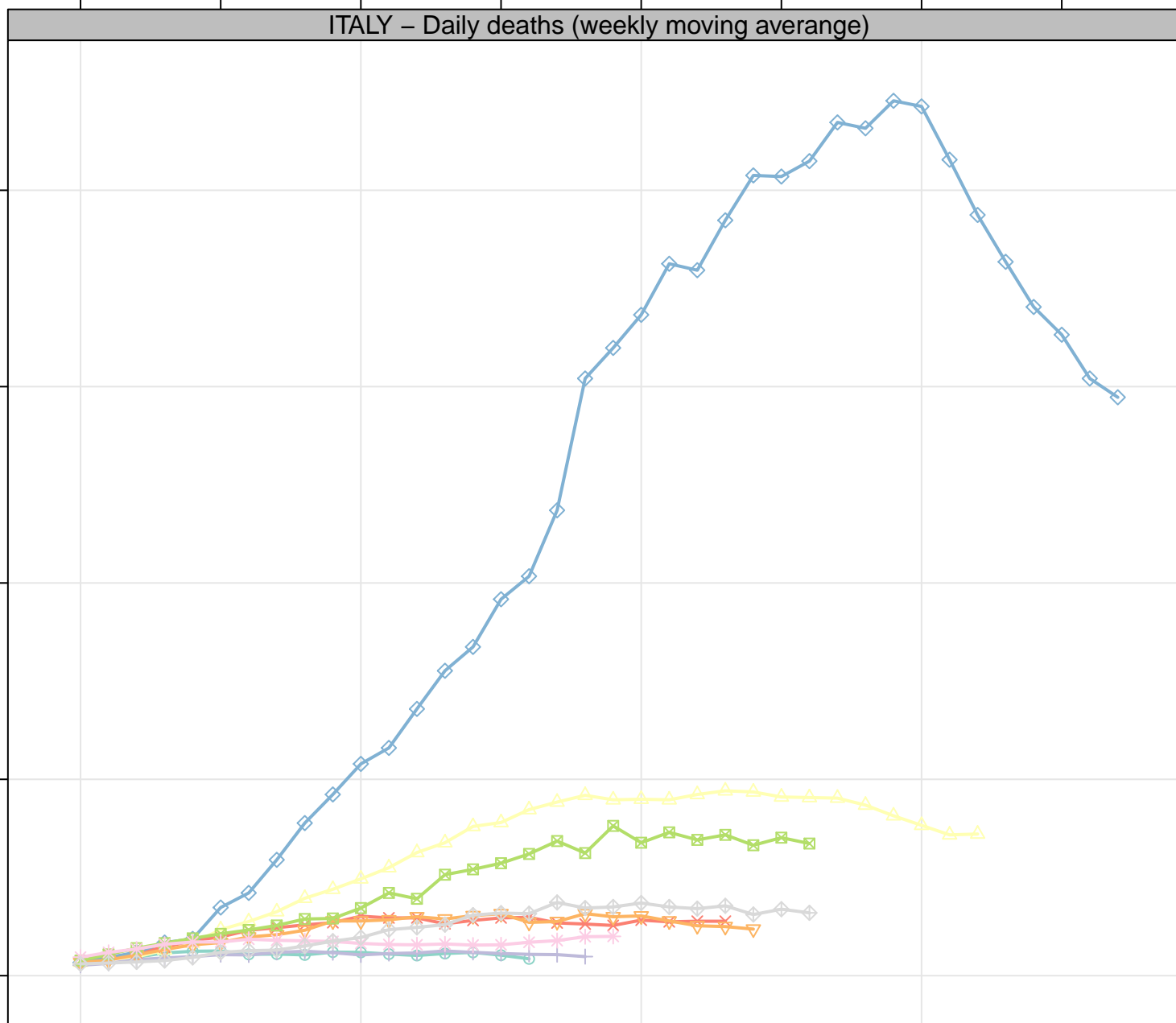
30

35

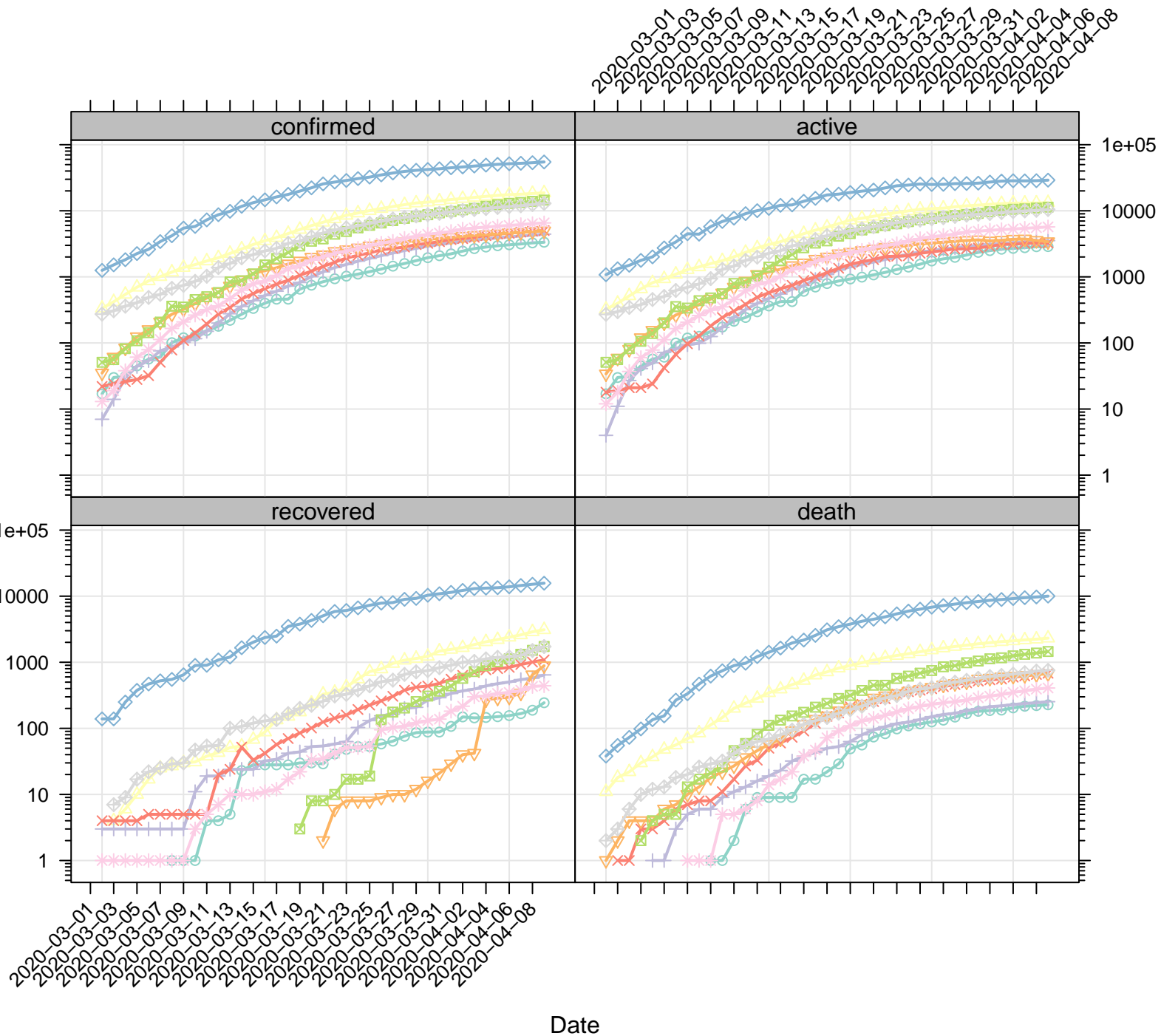
Days since nr deaths was 50

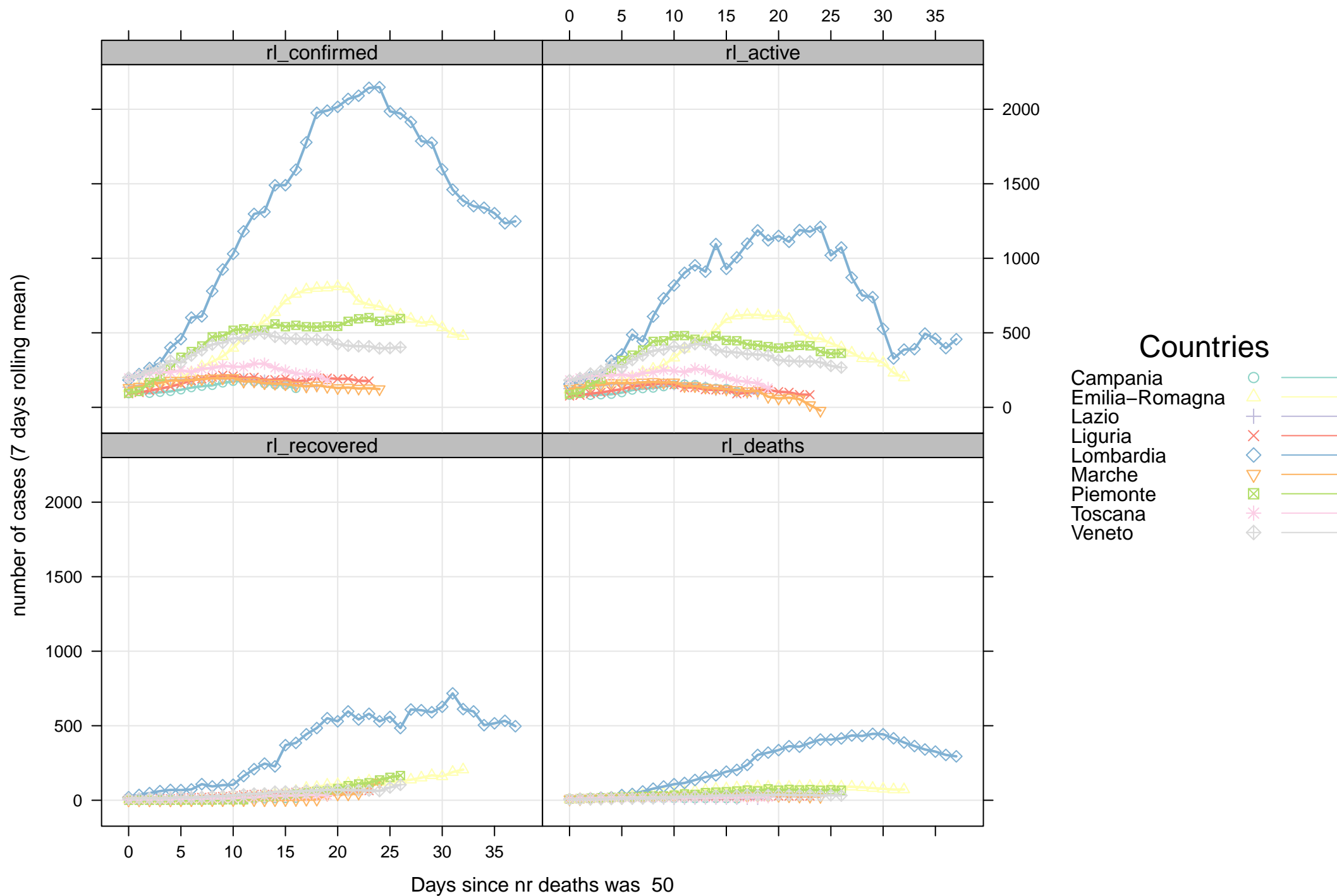
## Countries

Campania  
Emilia-Romagna  
Lazio  
Liguria  
Lombardia  
Marche  
Piemonte  
Toscana  
Veneto



number of cases







ITALY – confirmed cases of COVID-19 since onset of sick person nr 50

number of confirmed cases

10000

1000

100

0

5

10

15

20

25

30

35

40

45

Days since COVID-19 onset – confirmed case 50

Lombardia

Emilia-Romagna

Veneto

Marche

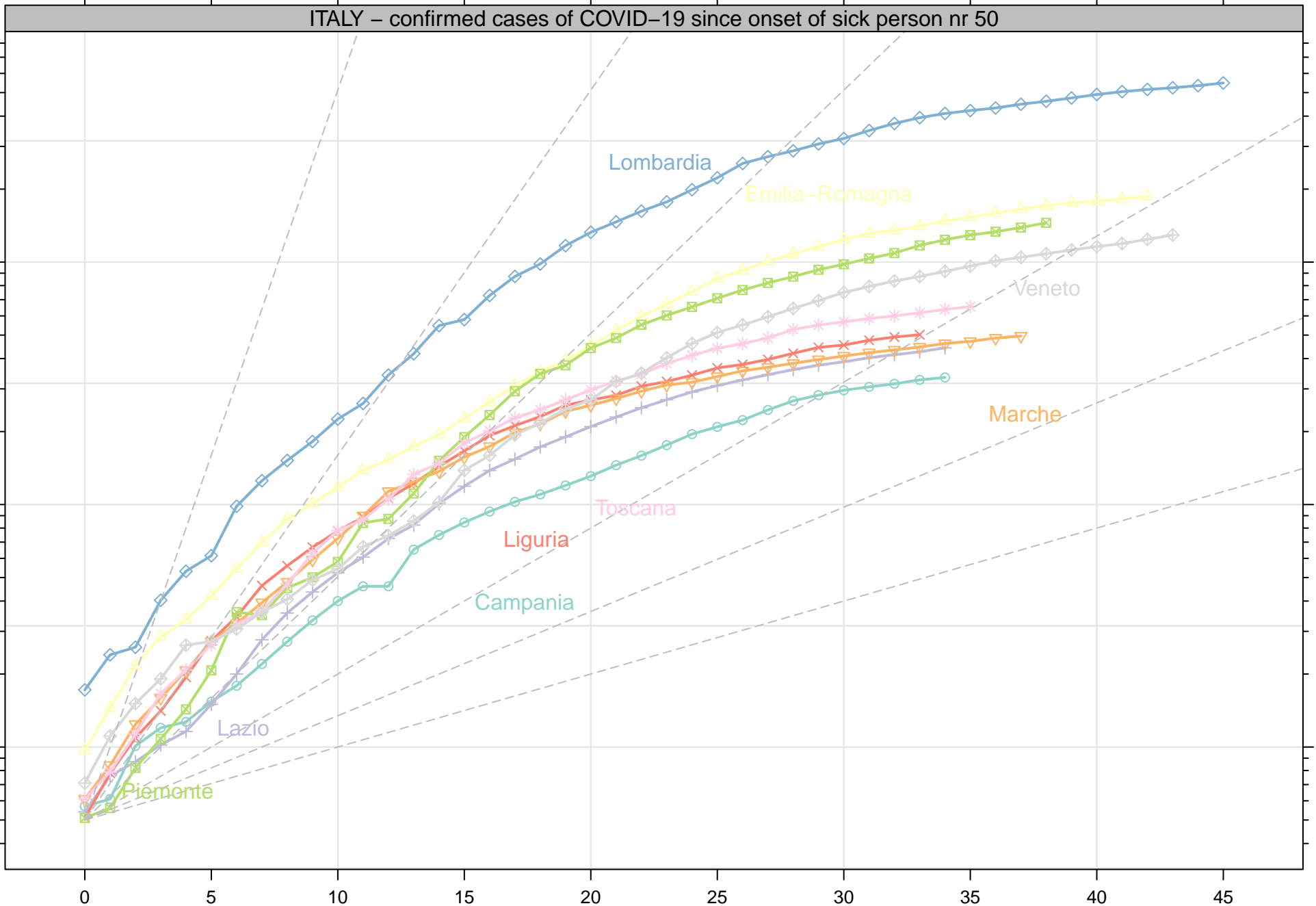
Toscana

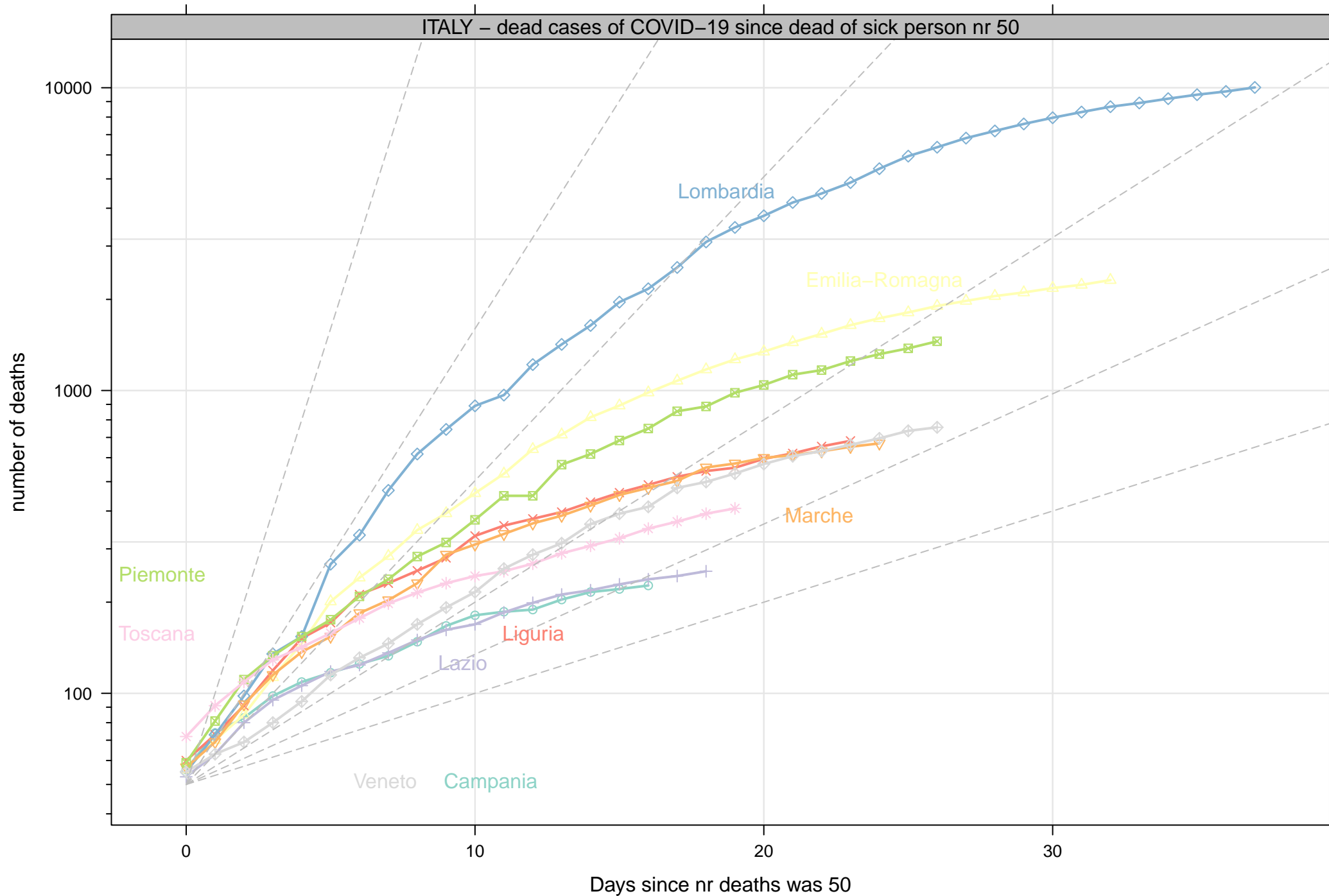
Liguria

Campania

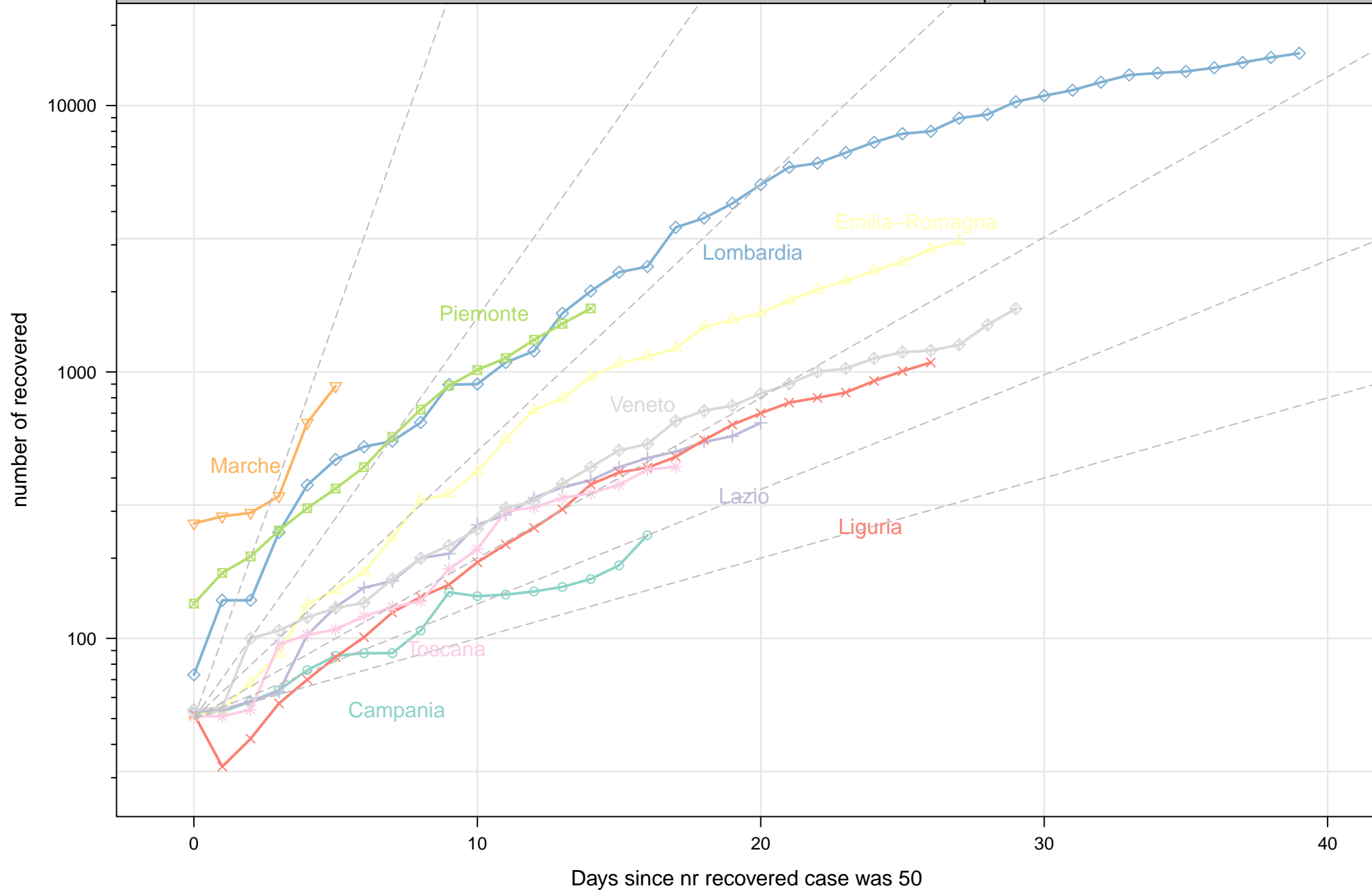
Lazio

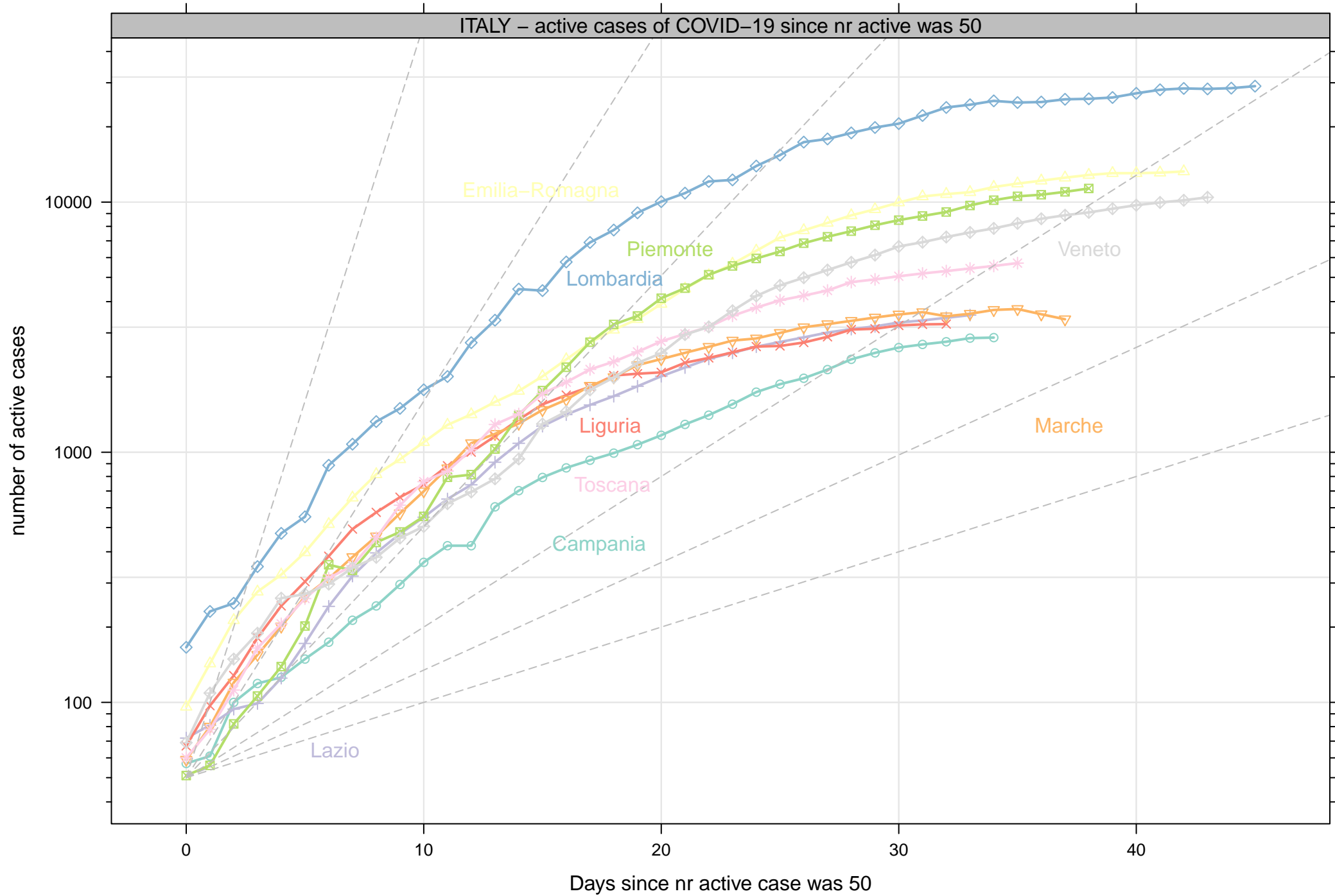
Piemonte





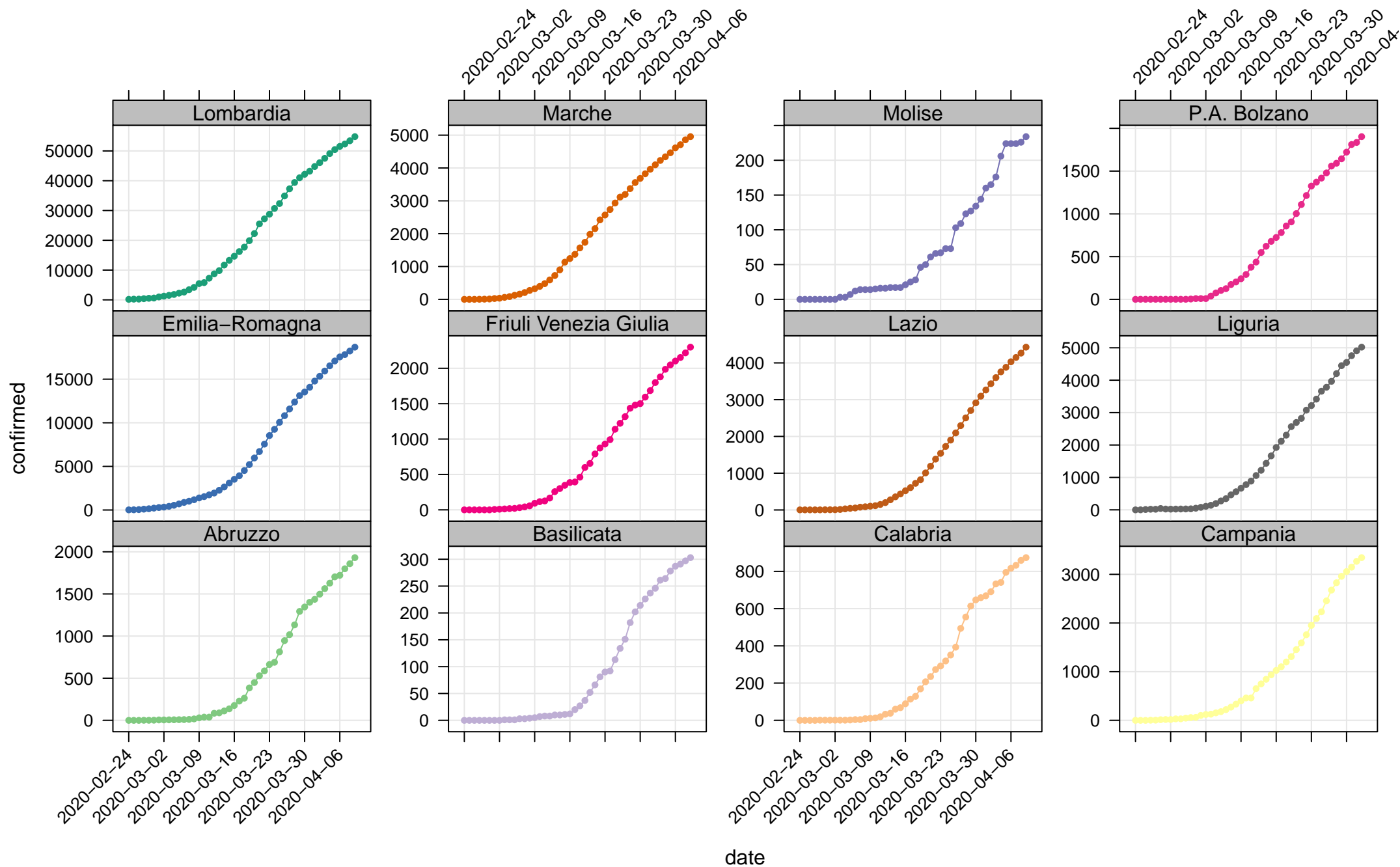
ITALY – recovered cases of COVID-19 since recovered of sick person nr 50



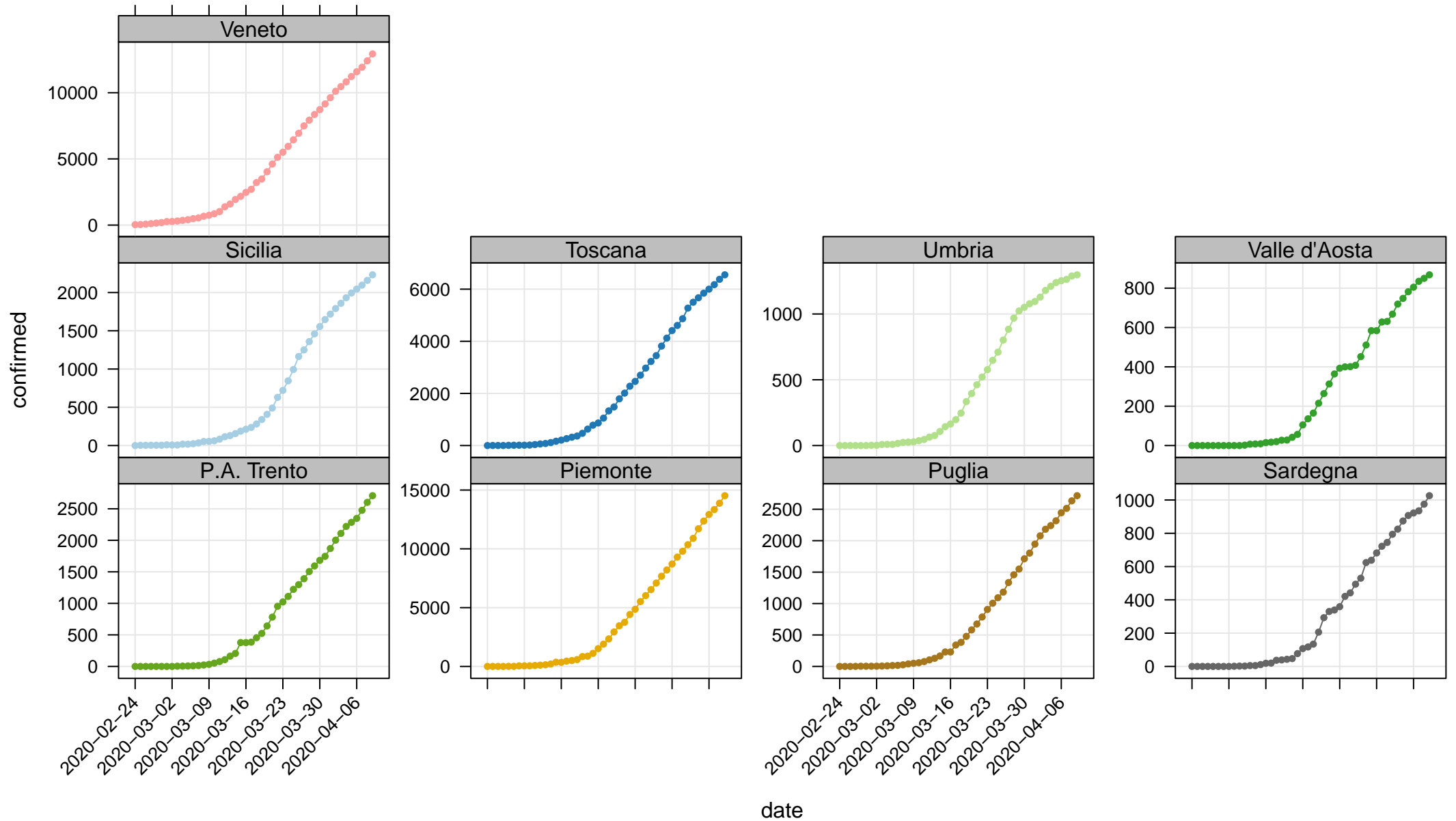


# ITALY – Confirmed cases of COVID-19

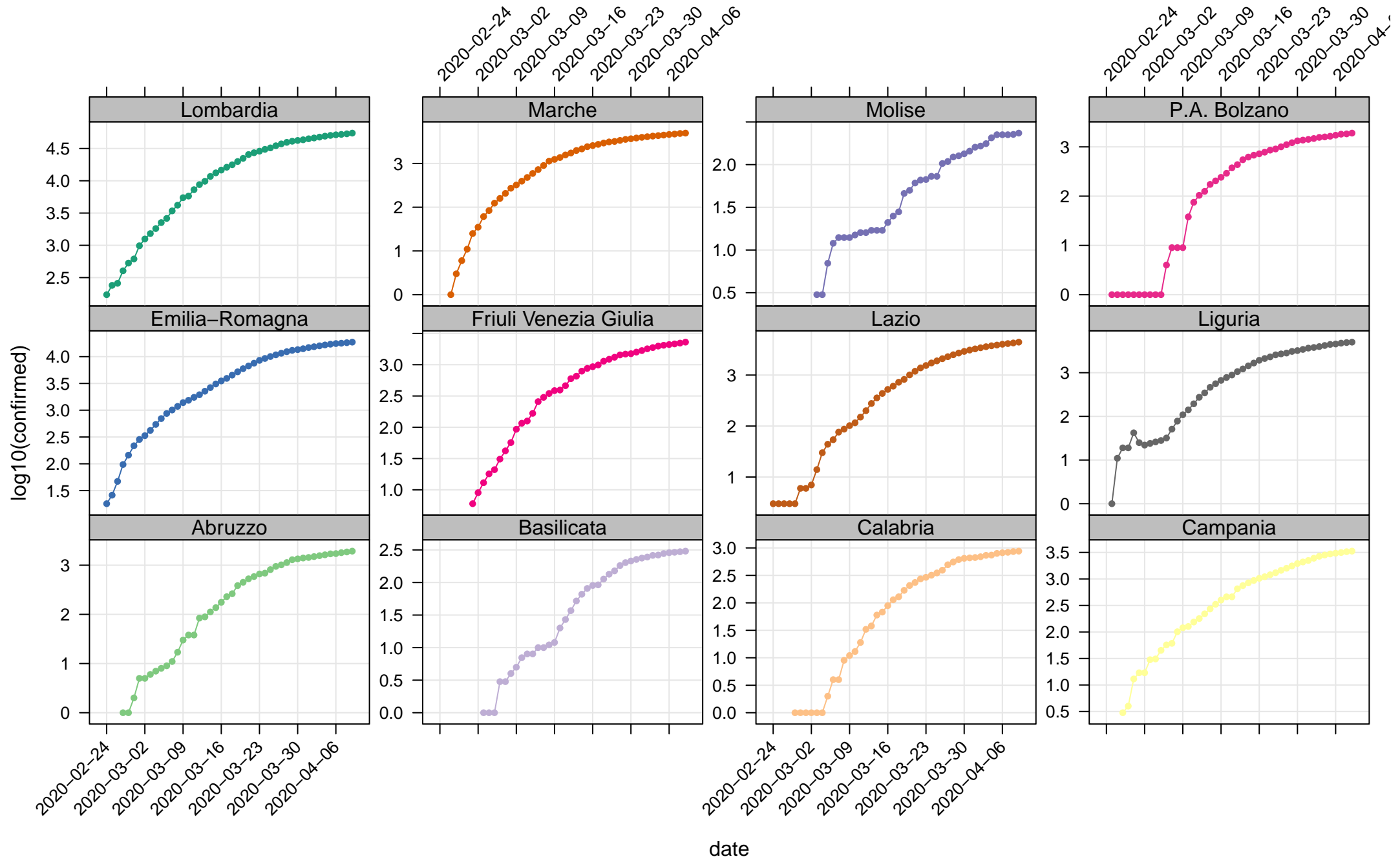
(last date in this graph is 2020-04-09)



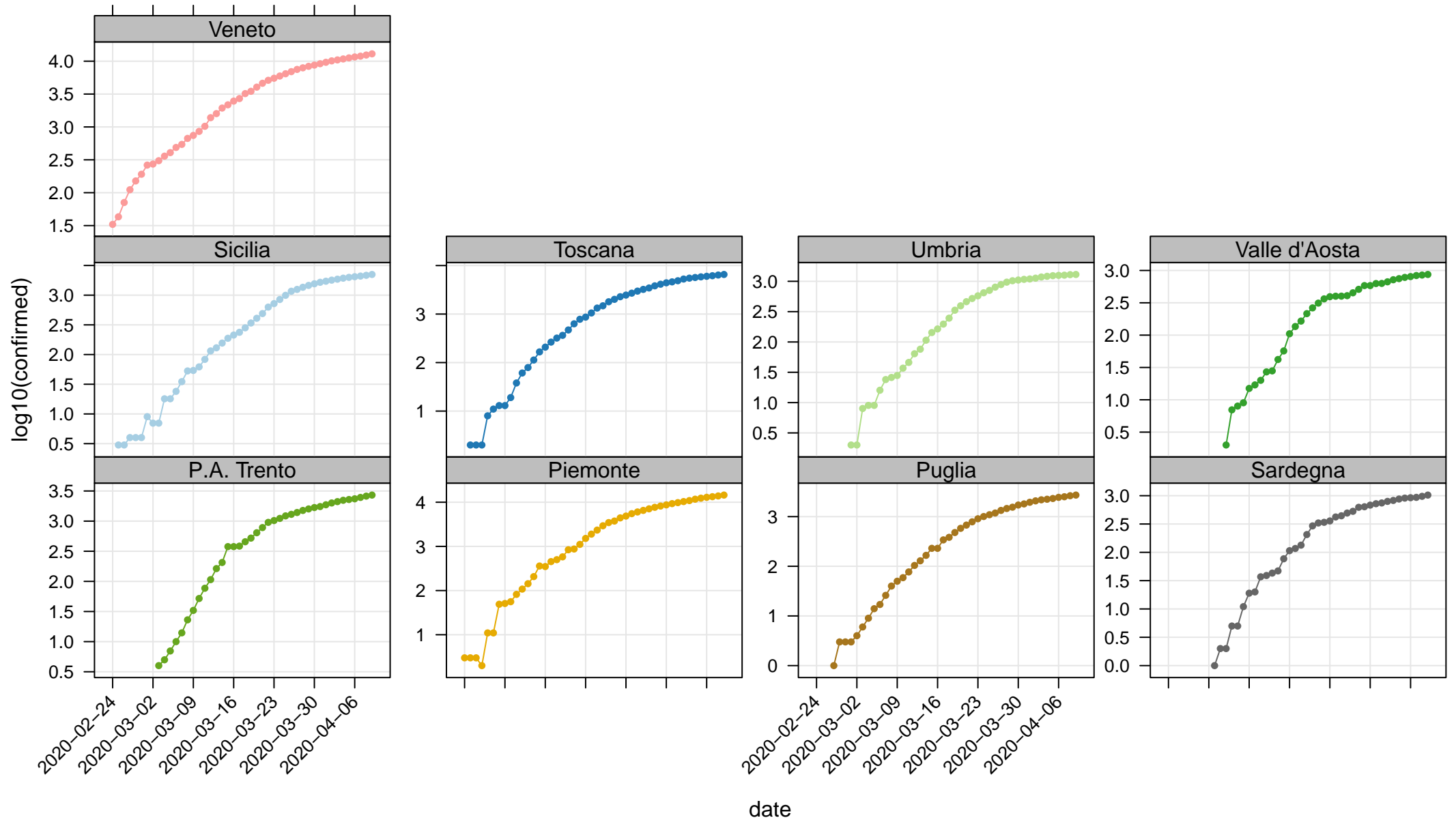
**ITALY – Confirmed cases of COVID-19**  
(last date in this graph is 2020-04-09)



**ITALY – Log 10 Confirmed cases of COVID-19**  
(last date in this graph is 2020-04-09)

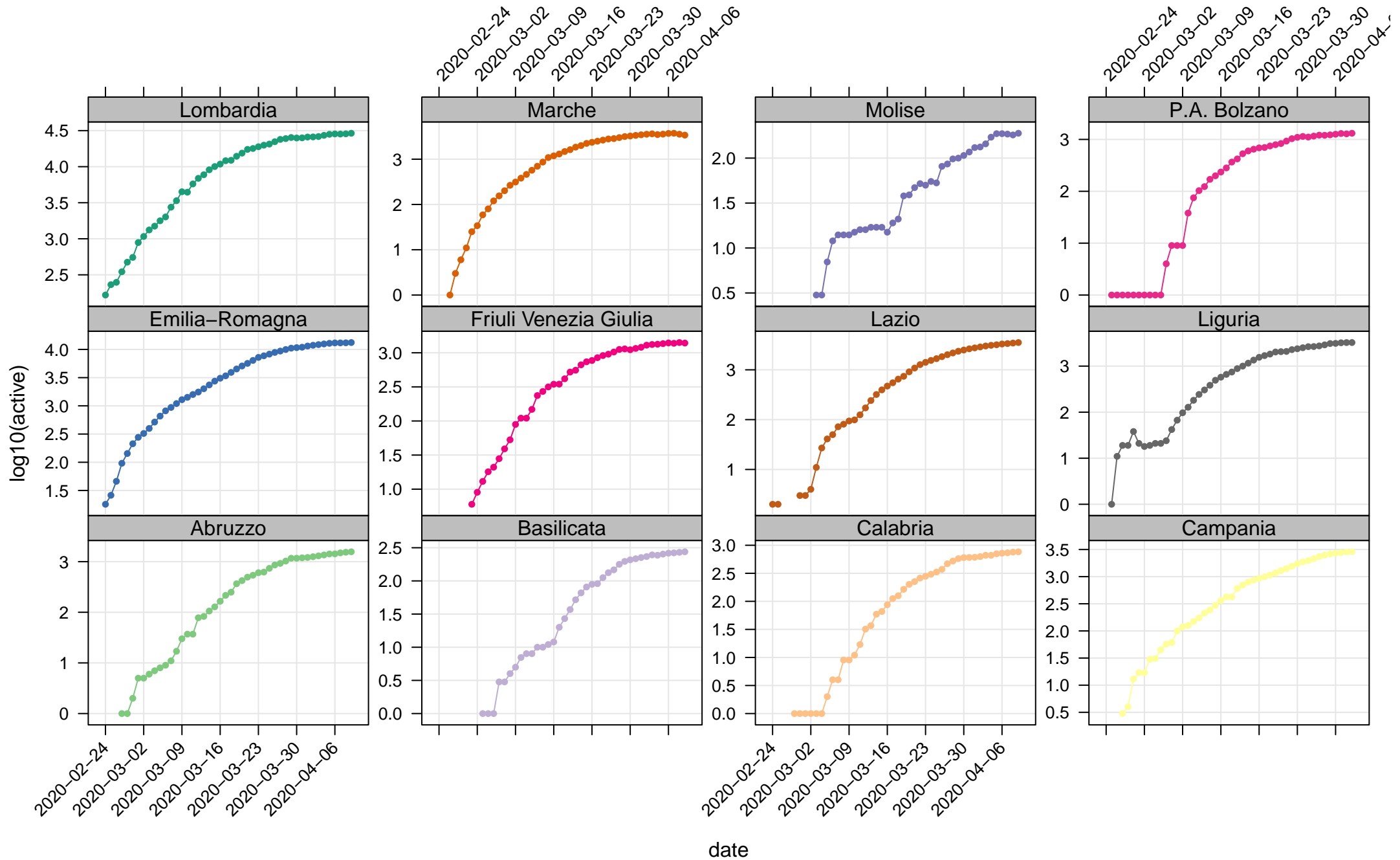


**ITALY – Log 10 Confirmed cases of COVID-19**  
(last date in this graph is 2020-04-09)

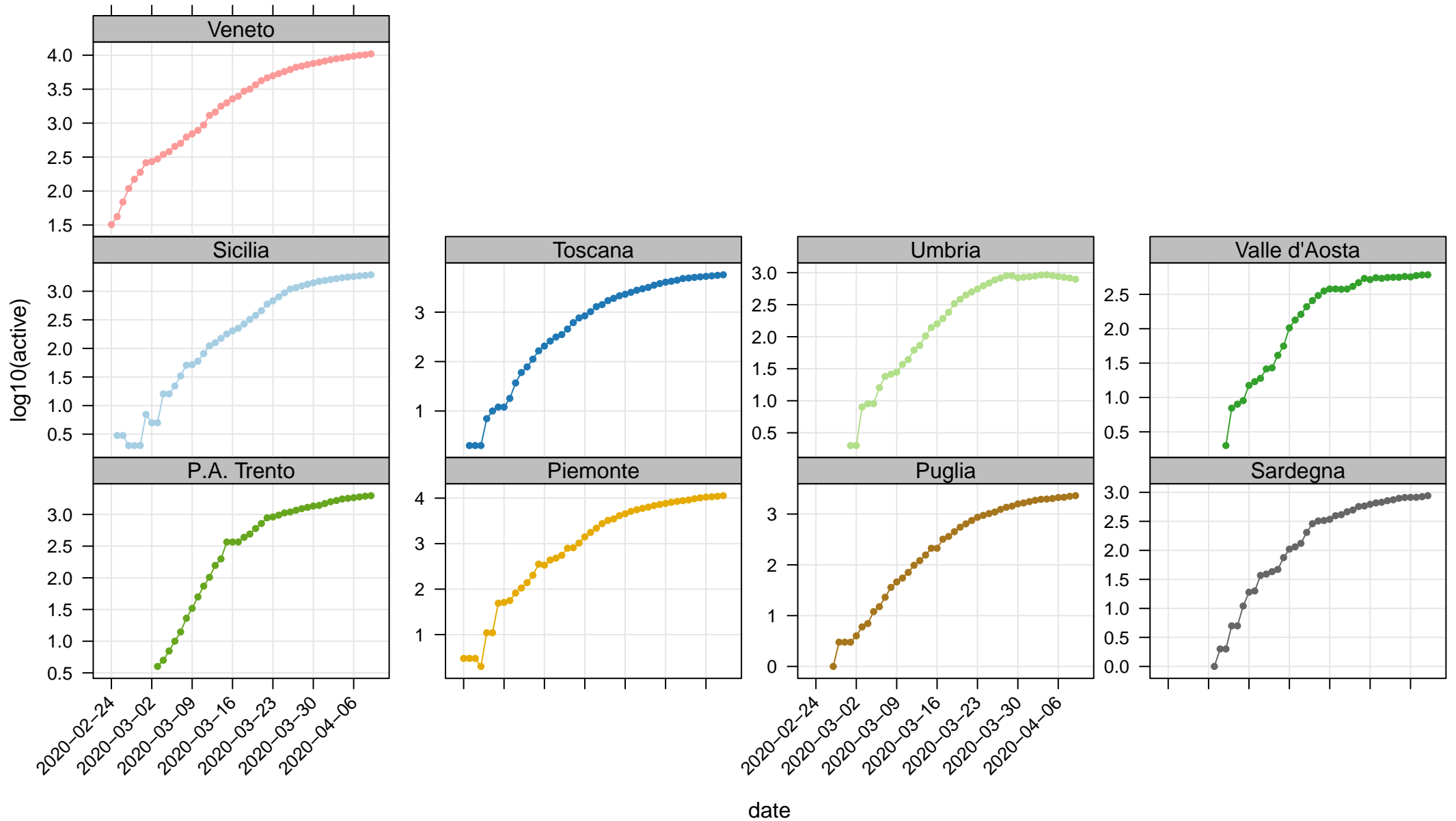




# ITALY – Log 10 Active cases of COVID-19 (last date in this graph is 2020-04-09)

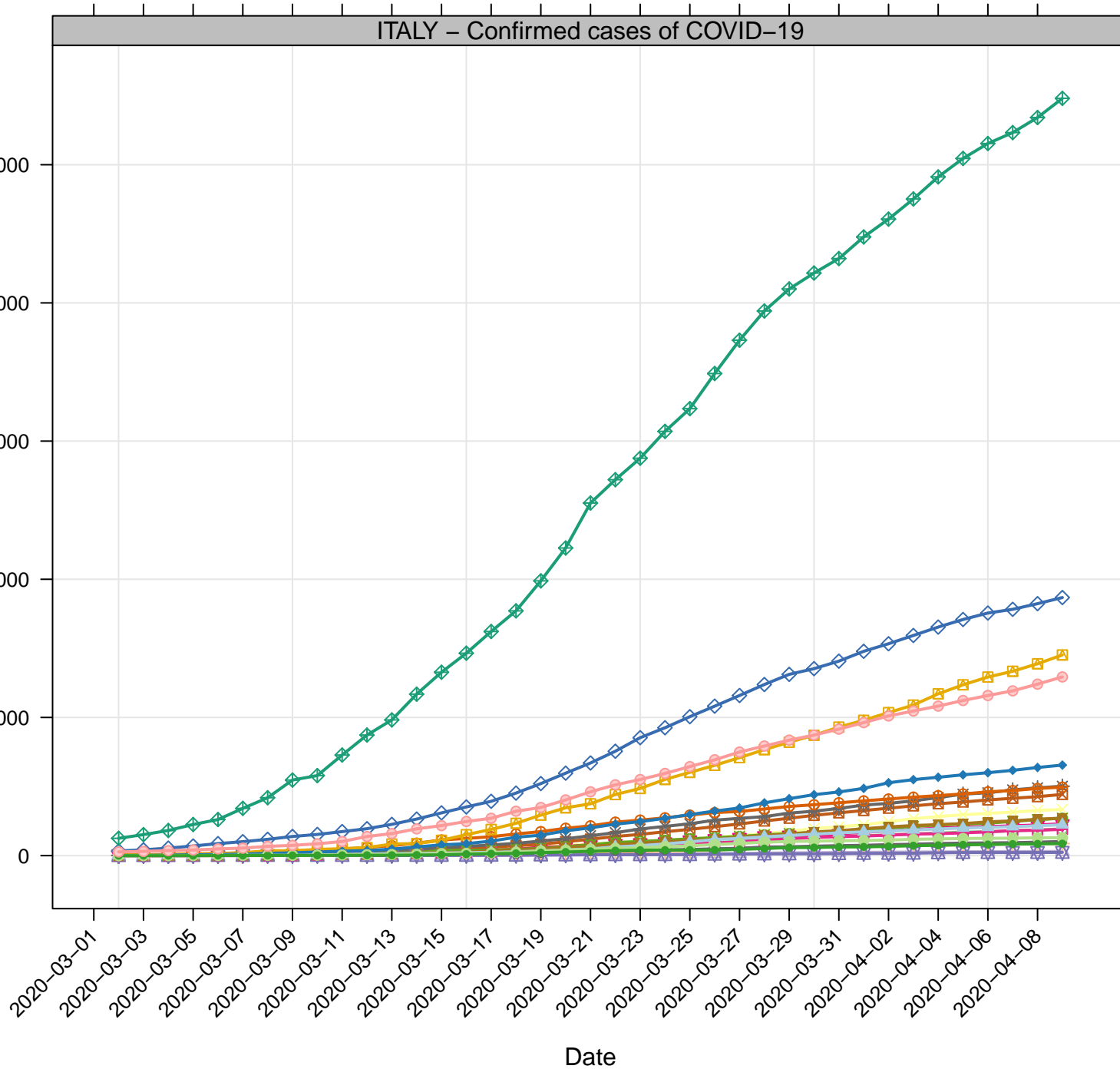


ITALY – Log 10 Active cases of COVID-19  
(last date in this graph is 2020-04-09)



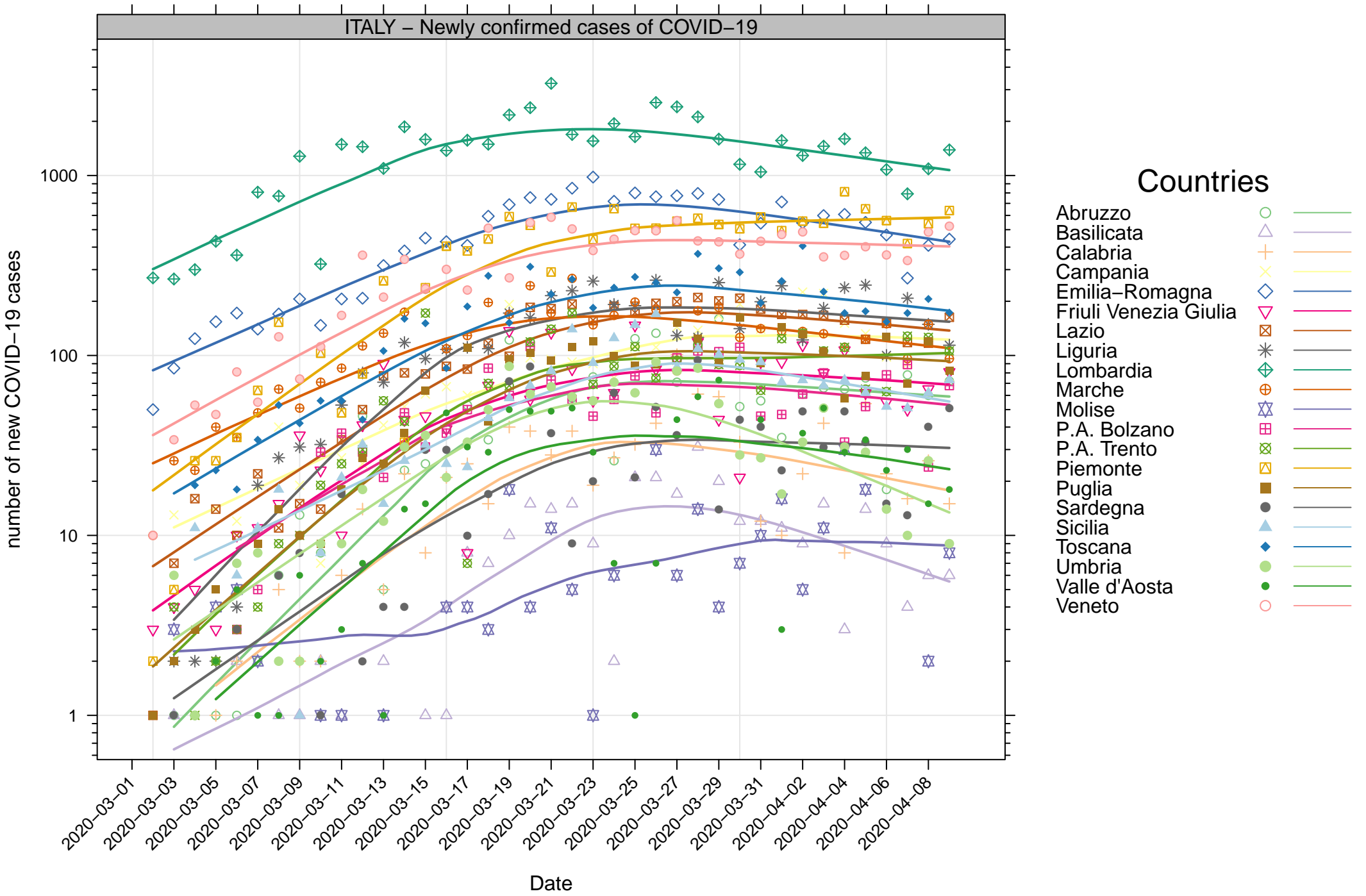
ITALY – Confirmed cases of COVID-19

log10 of number of new COVID-19 cases



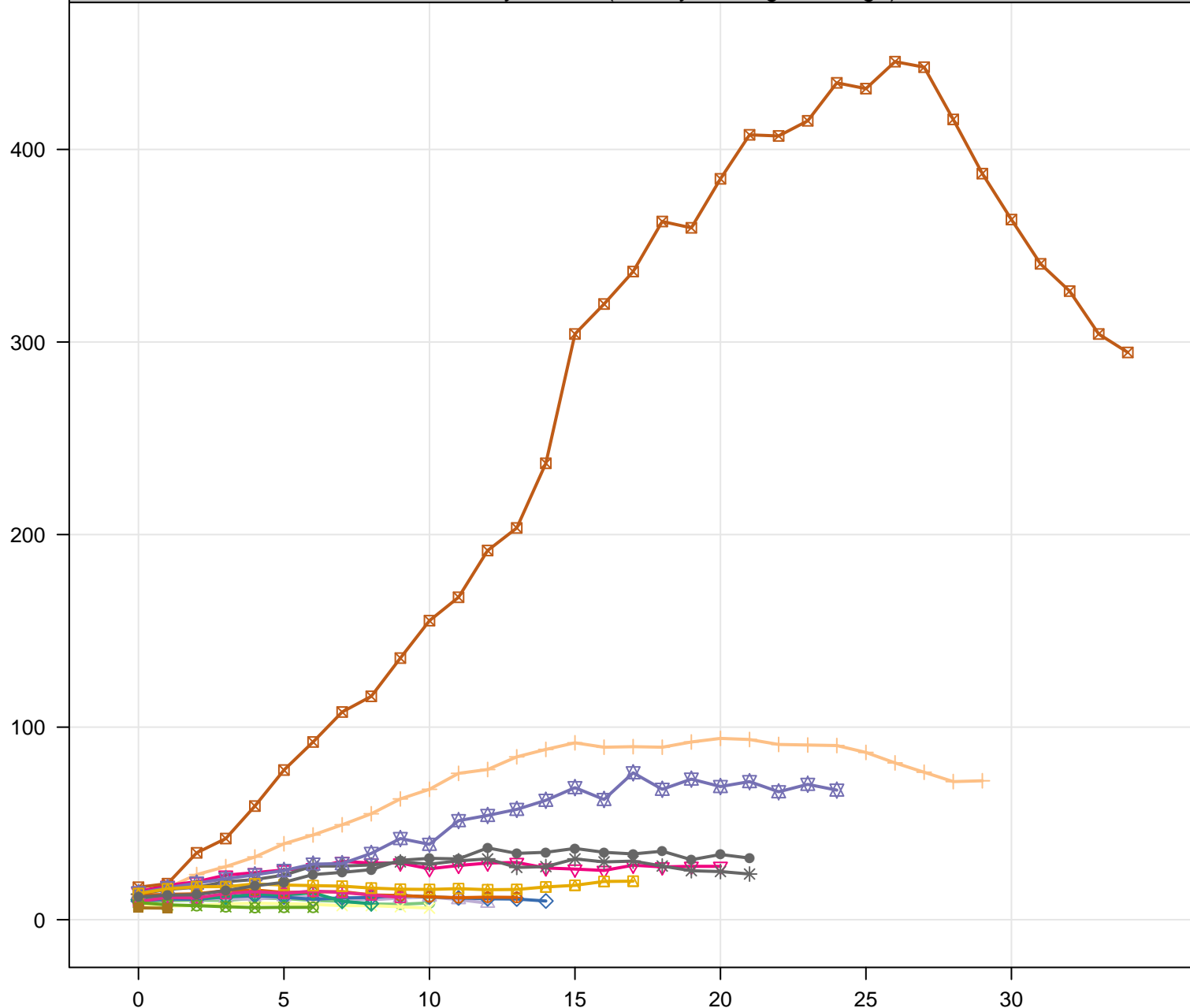
## Countries

- Abruzzo
- Basilicata
- Calabria
- Campania
- Emilia-Romagna
- Friuli Venezia Giulia
- Lazio
- Liguria
- Lombardia
- Marche
- Molise
- P.A. Bolzano
- P.A. Trento
- Piemonte
- Puglia
- Sardegna
- Sicilia
- Toscana
- Umbria
- Valle d'Aosta
- Veneto



ITALY – Daily deaths (weekly moving average)

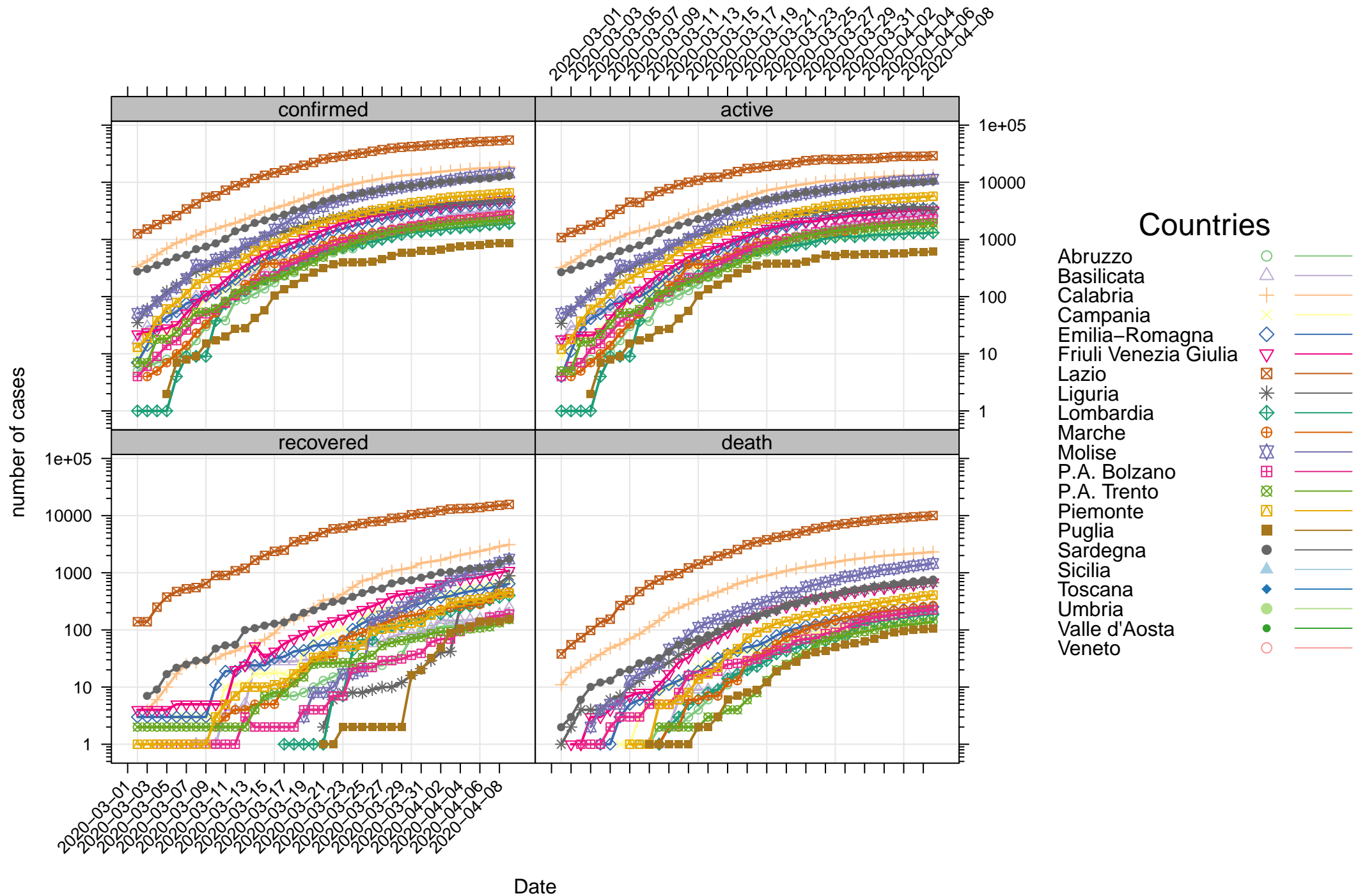
number of cases (7 days rolling mean)

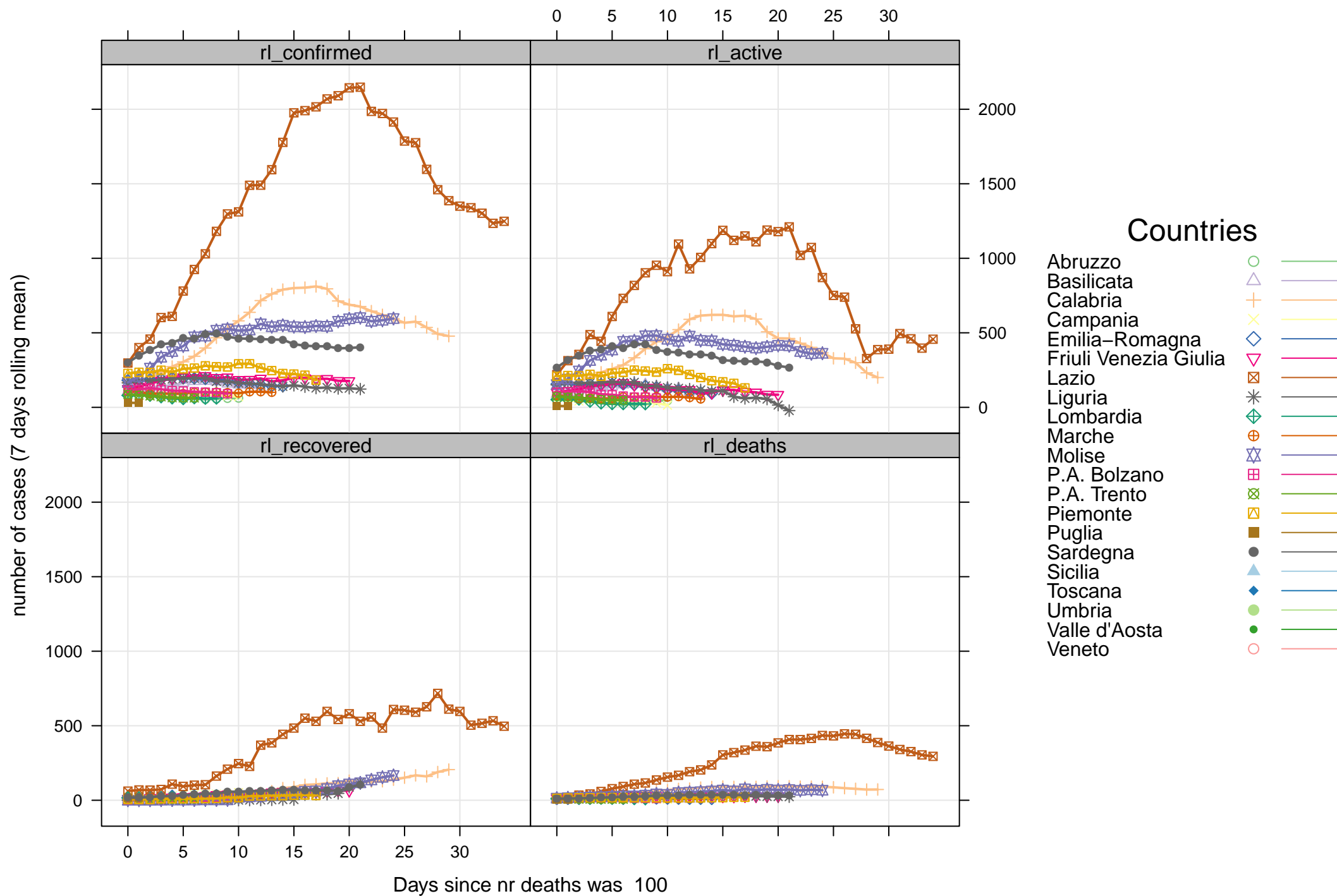


Days since nr deaths was 100

## Countries

- Abruzzo
- Basilicata
- Calabria
- Campania
- Emilia-Romagna
- Friuli Venezia Giulia
- Lazio
- Liguria
- Lombardia
- Marche
- Molise
- P.A. Bolzano
- P.A. Trento
- Piemonte
- Puglia
- Sardegna
- Sicilia
- Toscana
- Umbria
- Valle d'Aosta
- Veneto





ITALY – confirmed cases of COVID-19 since onset of sick person nr 100

number of confirmed cases

10000

1000

100

0

5

10

15

20

25

30

35

40

45

Days since COVID-19 onset – confirmed case 100

Campania

P.A. Trento

P.A. Bolzano

Sardegna

Liguria

Molise

Calabria

Lazio

Abruzzo

Sicilia

Basilicata

Puglia

Valle d'Aosta

Umbria

Friuli Venezia Giulia

Marche

Veneto

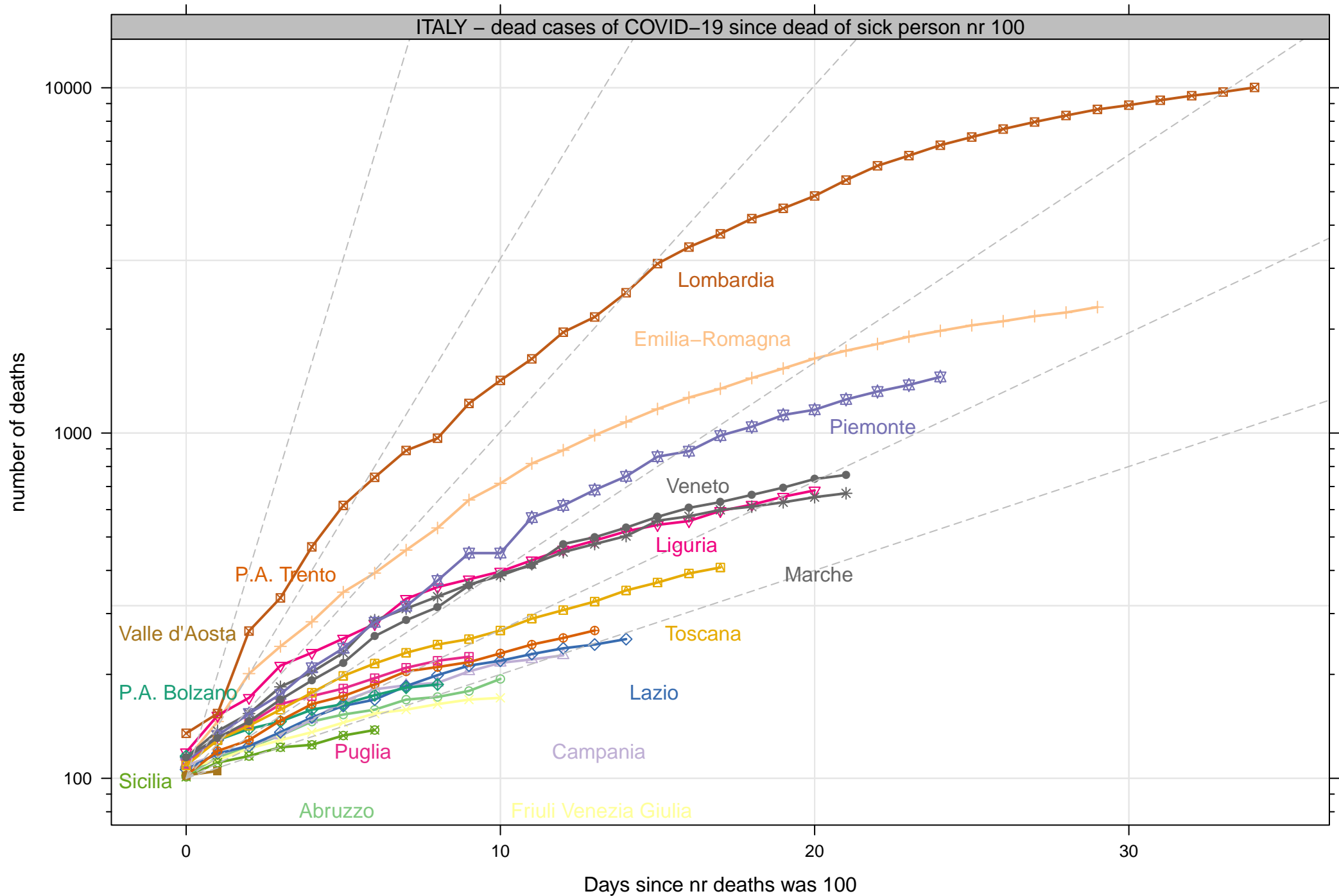
Toscana

Lombardia

Piemonte

Emilia-Romagna





ITALY – recovered cases of COVID-19 since recovered of sick person nr 100

number of recovered

10000

1000

100

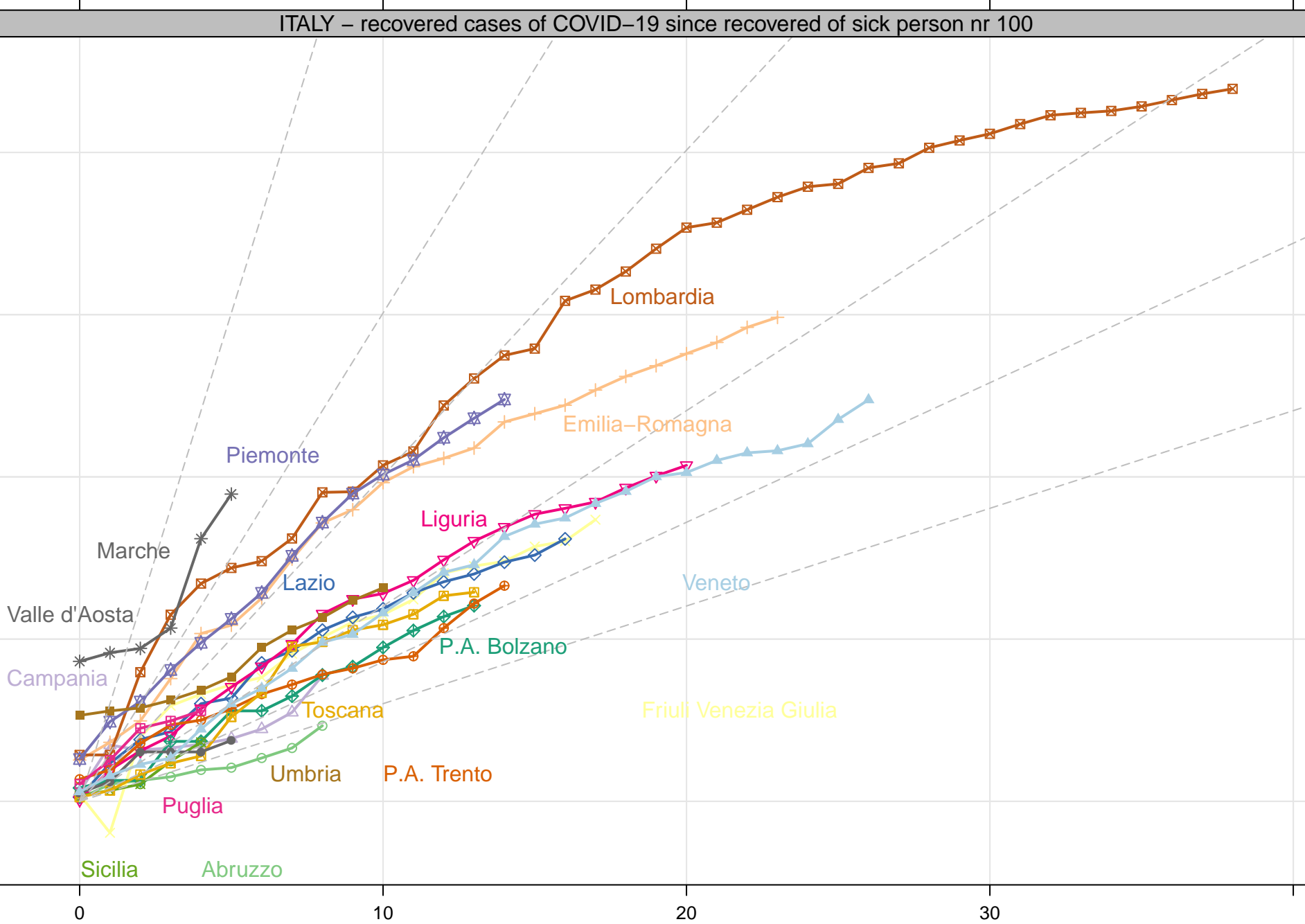
0

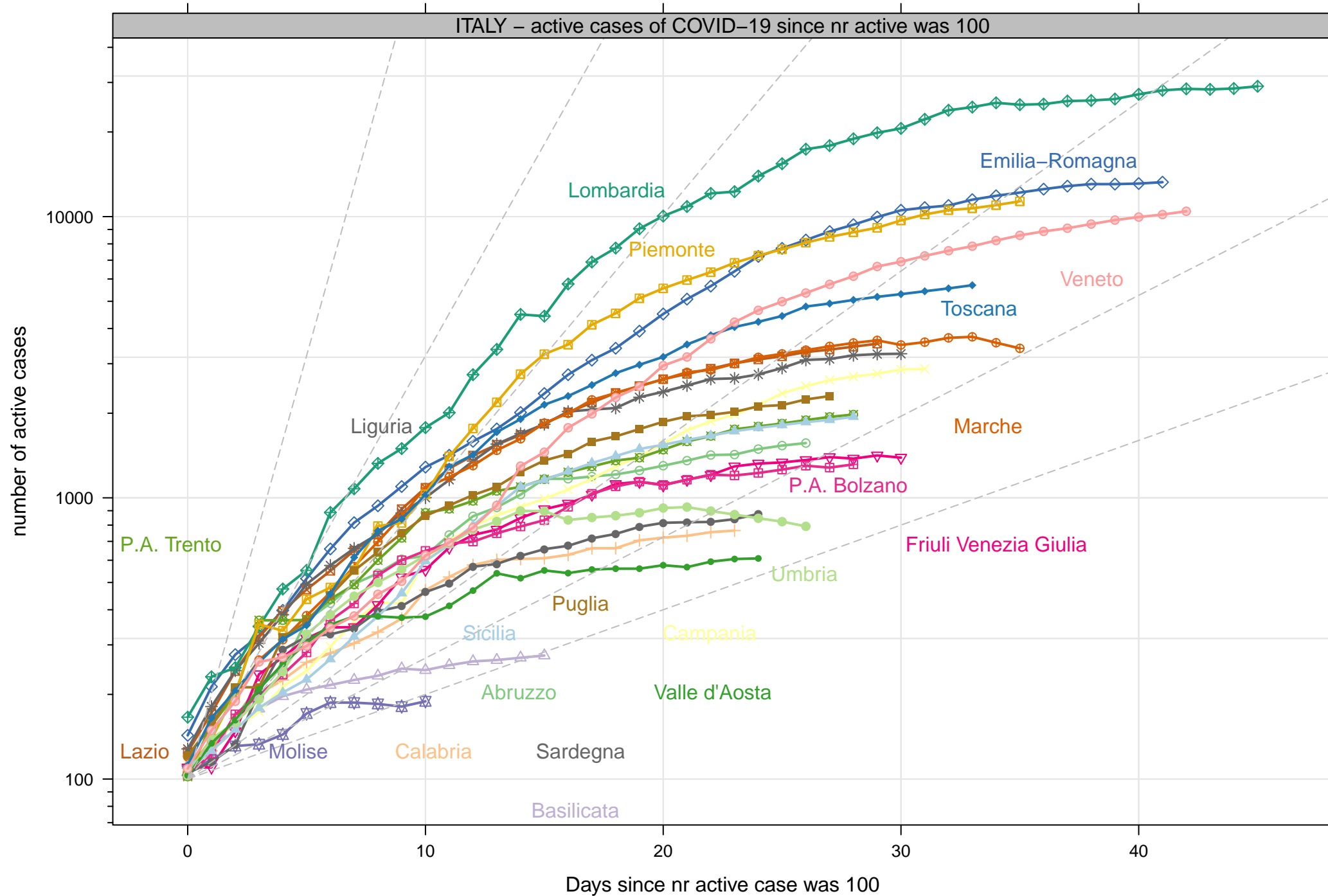
10

20

30

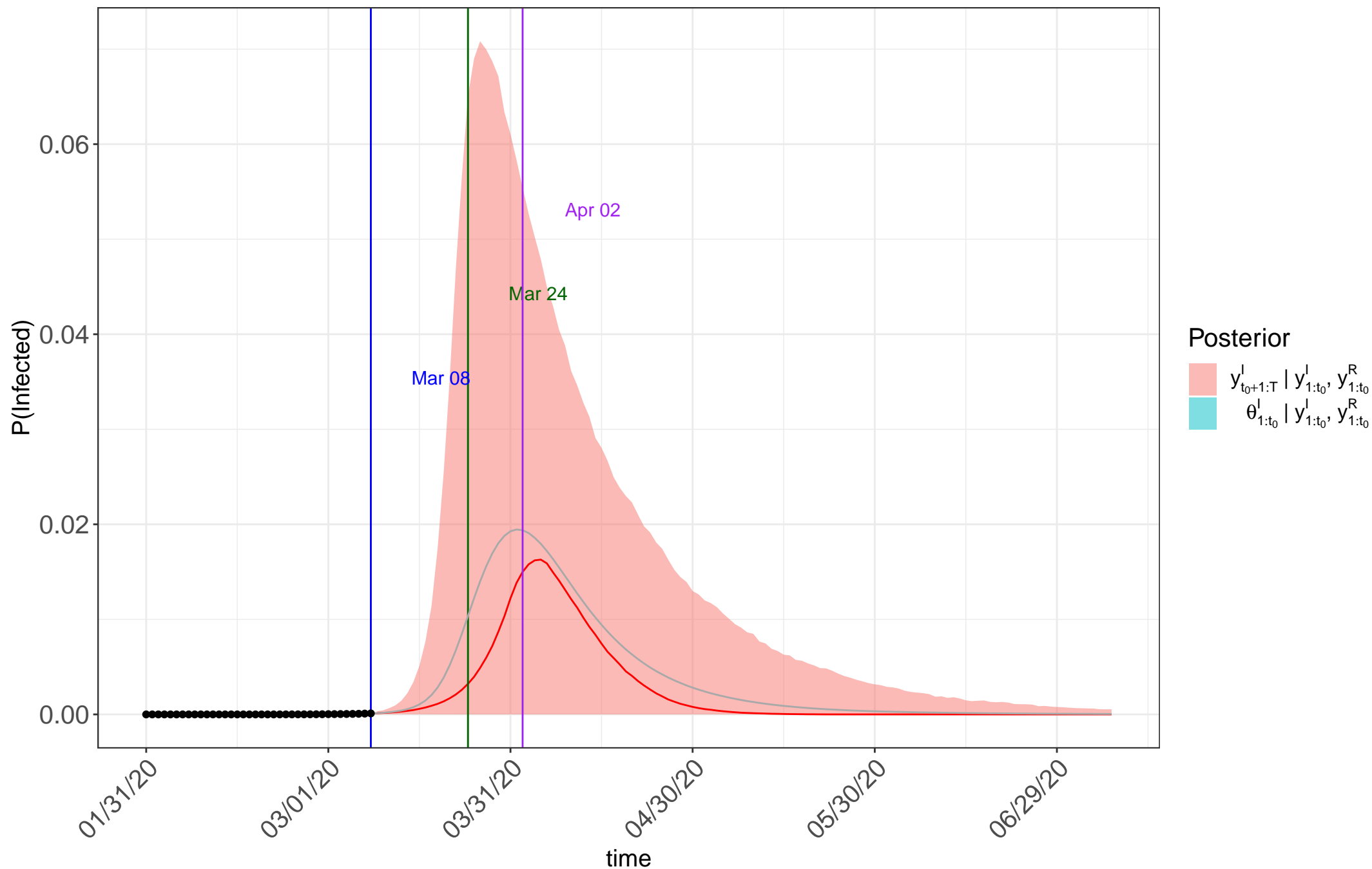
Days since nr recovered case was 100





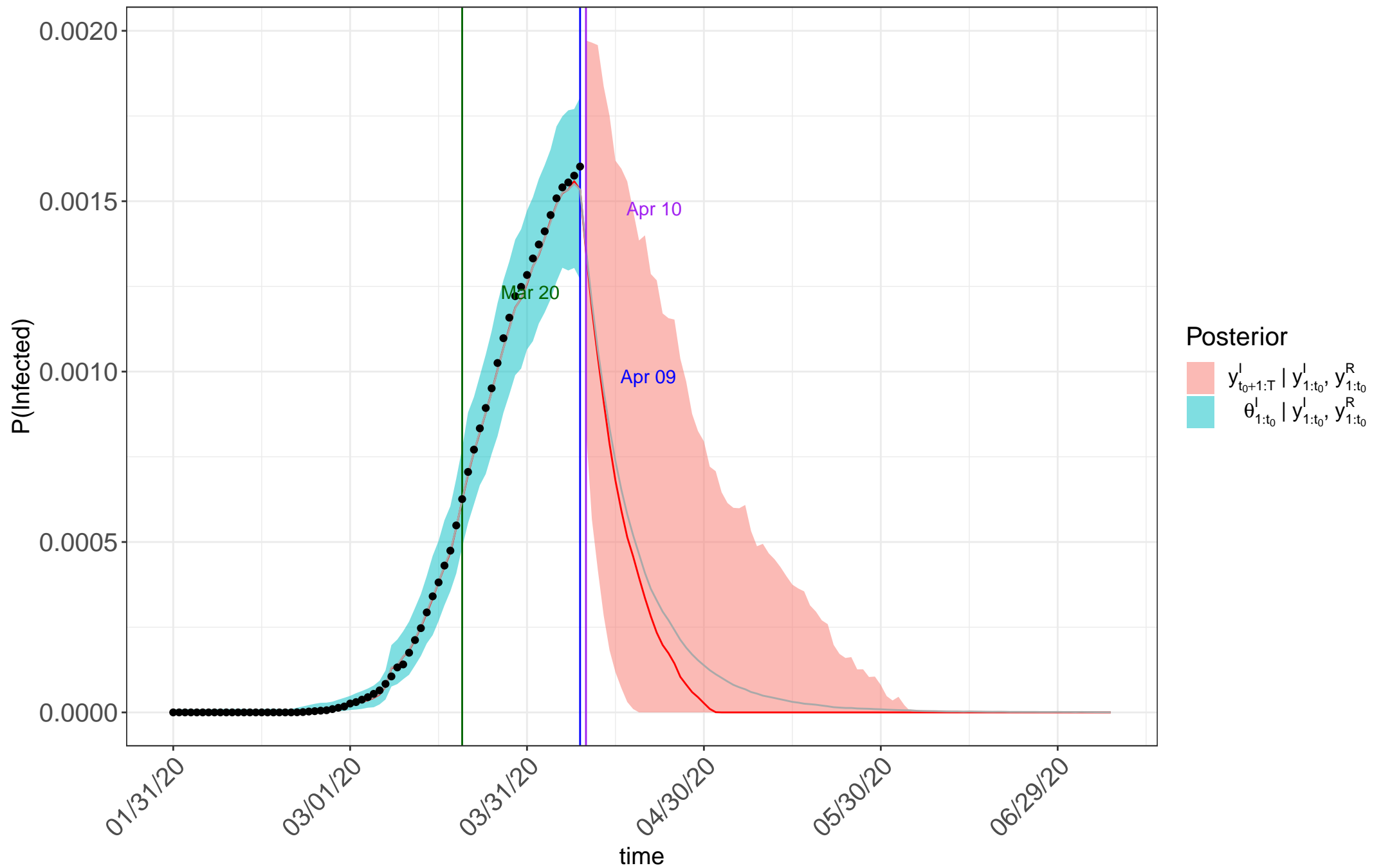
# Italy\_herd\_immunity: infection forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

Posterior  $\beta_p=1.13, \gamma_p=0.789$  and  $R_0=1.44$



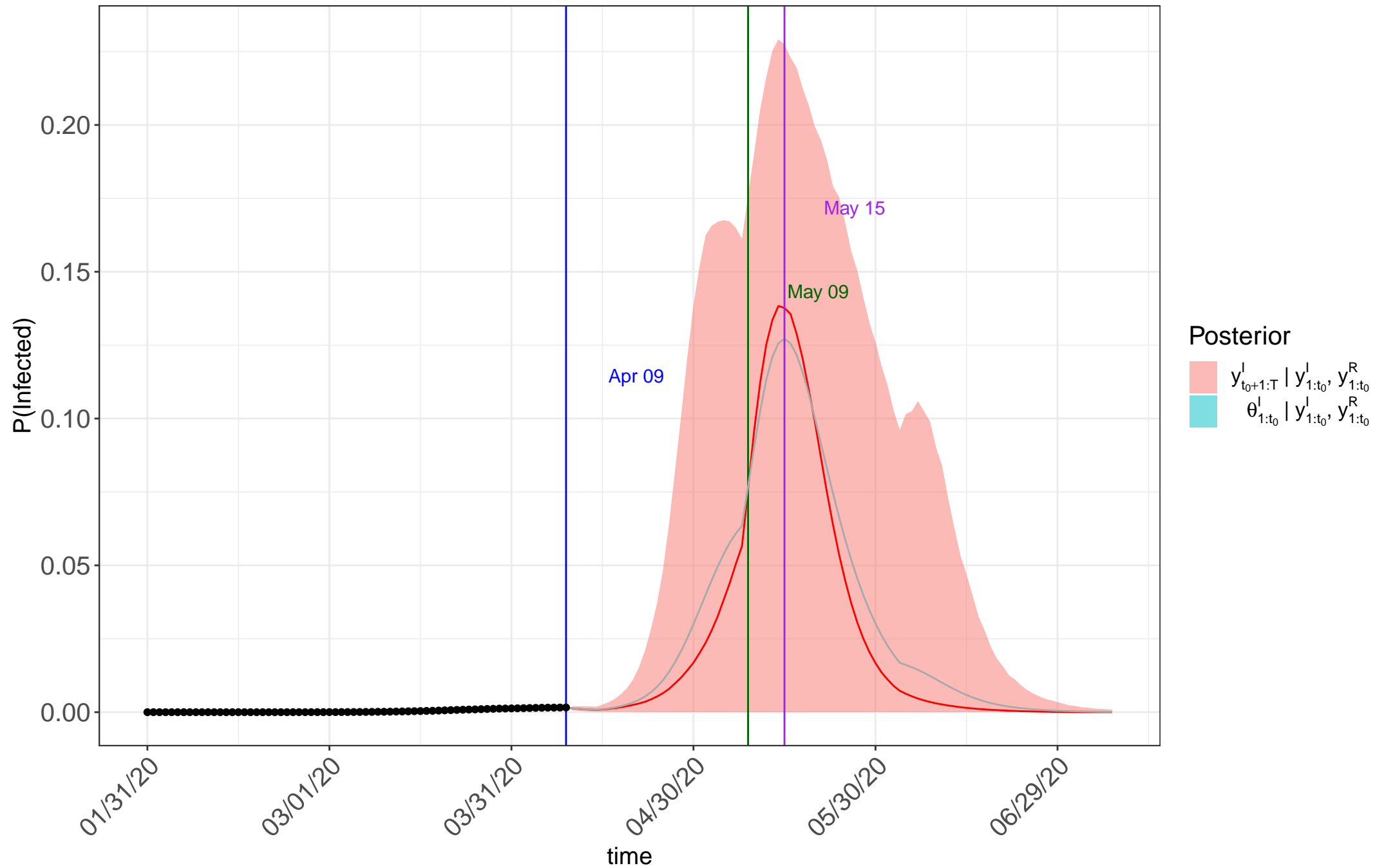
# Italy\_lockdown: infection forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

Posterior  $\beta_p=1.63, \gamma_p=0.372$  and  $R_0=4.4$



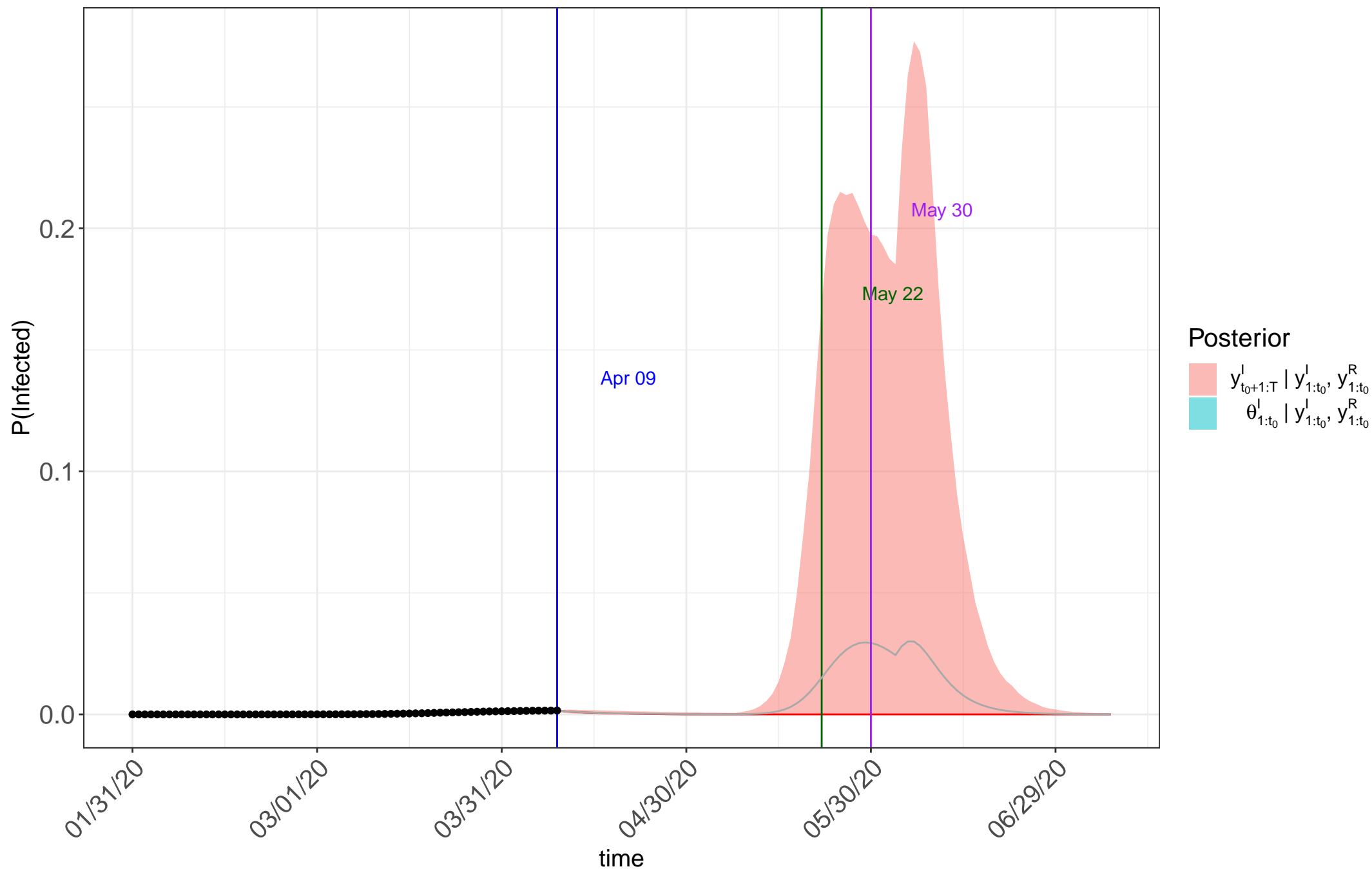
Italyafter\_easter\_reopen: infection forecast with prior  $\beta_0=1, \gamma_0=0.863$  and  $R_0=1.16$

Posterior  $\beta_p=1.31, \gamma_p=0.316$  and  $R_0=4.17$



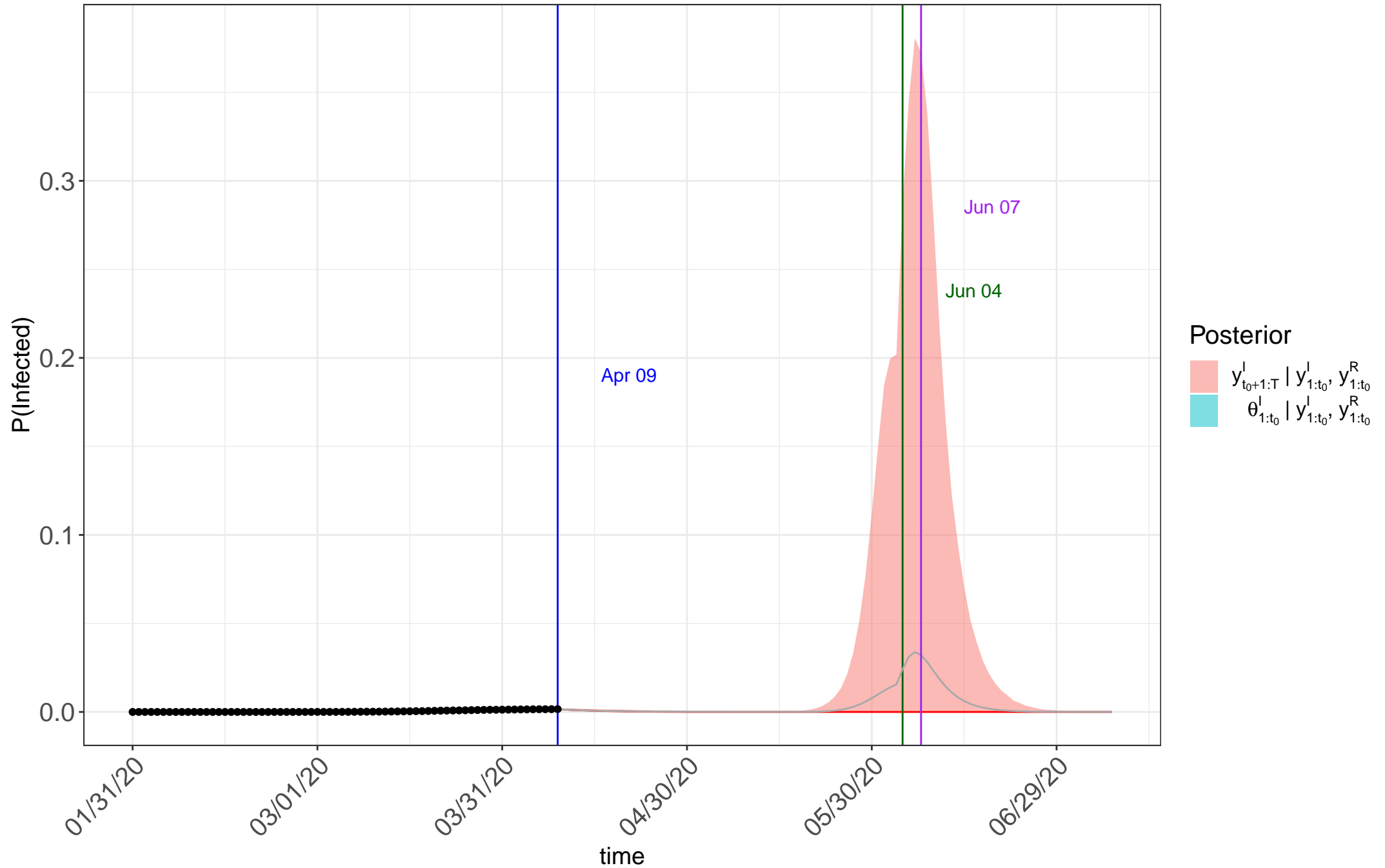
# Italystep\_after\_1\_may\_reopen: infection forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

Posterior  $\beta_p=1.45, \gamma_p=0.343$  and  $R_0=4.24$



# Italy\_after\_1\_may\_and\_18\_reopen: infection forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

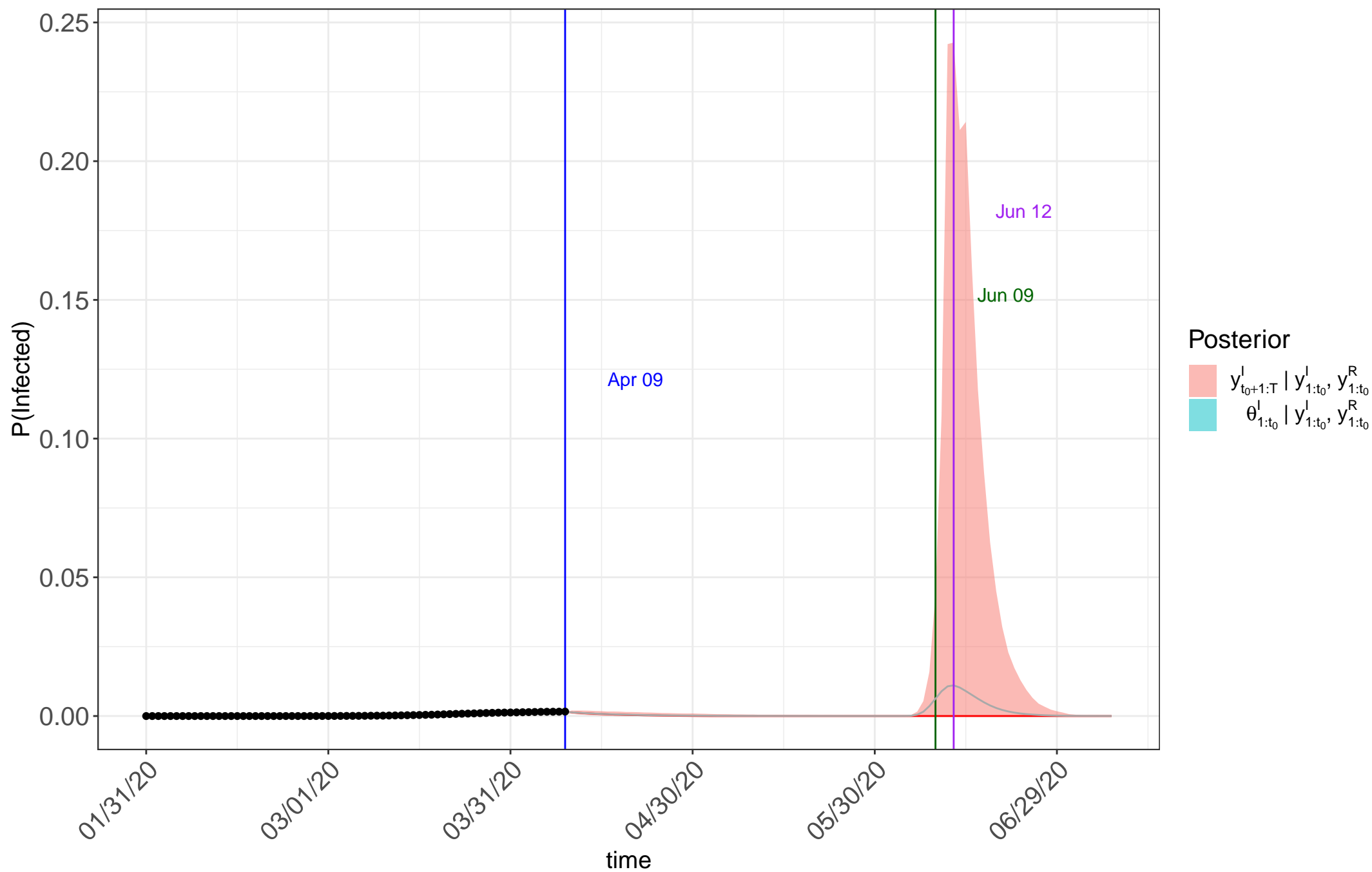
Posterior  $\beta_p=1.63, \gamma_p=0.374$  and  $R_0=4.39$





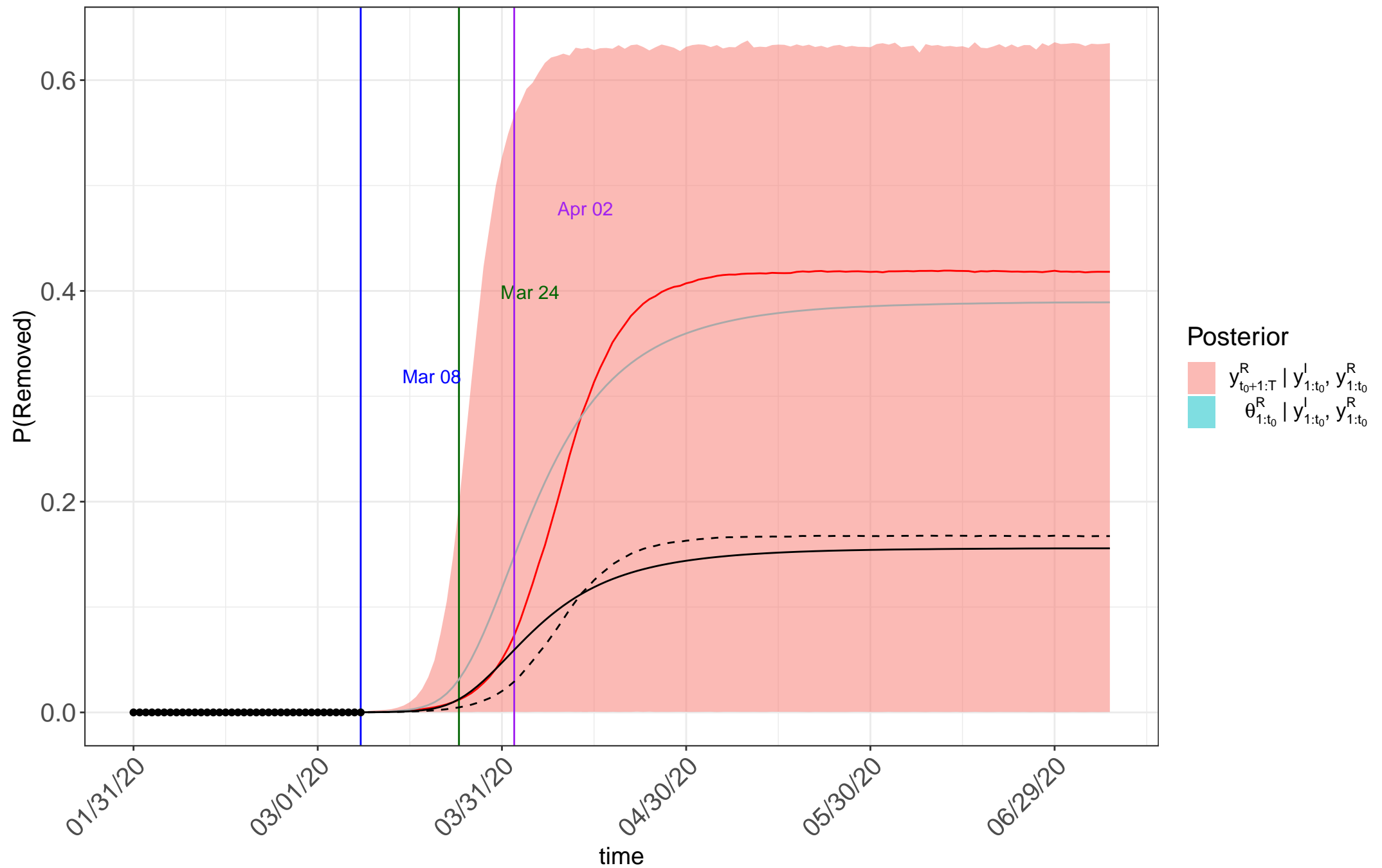
# Italyafter\_2\_june\_reopen: infection forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

Posterior  $\beta_p=1.59, \gamma_p=0.356$  and  $R_0=4.48$



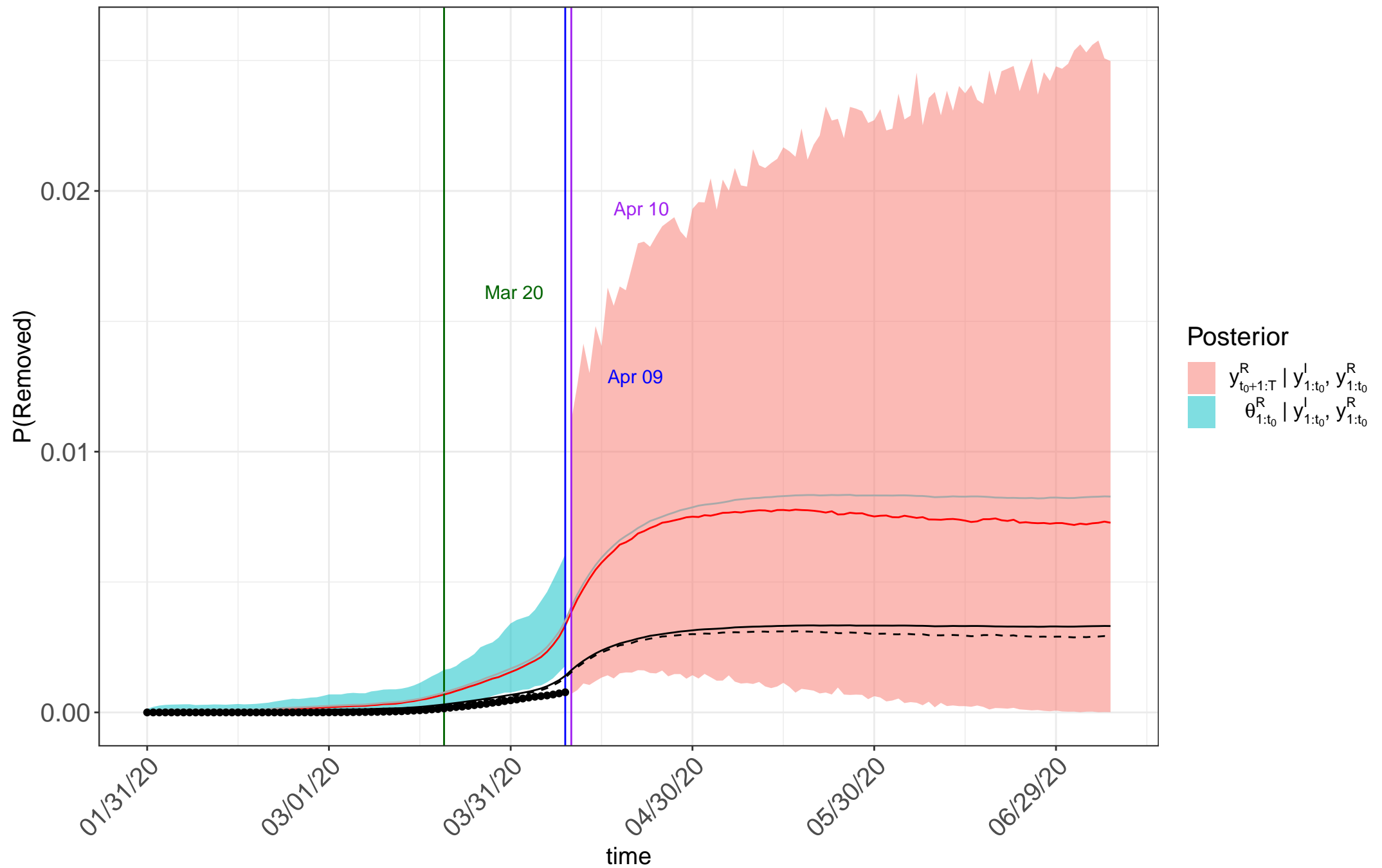
# Italy\_herd\_immunity: removed forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

posterior:  $\beta_p=1.13, \gamma_p=0.789$  and  $R_0=1.44$



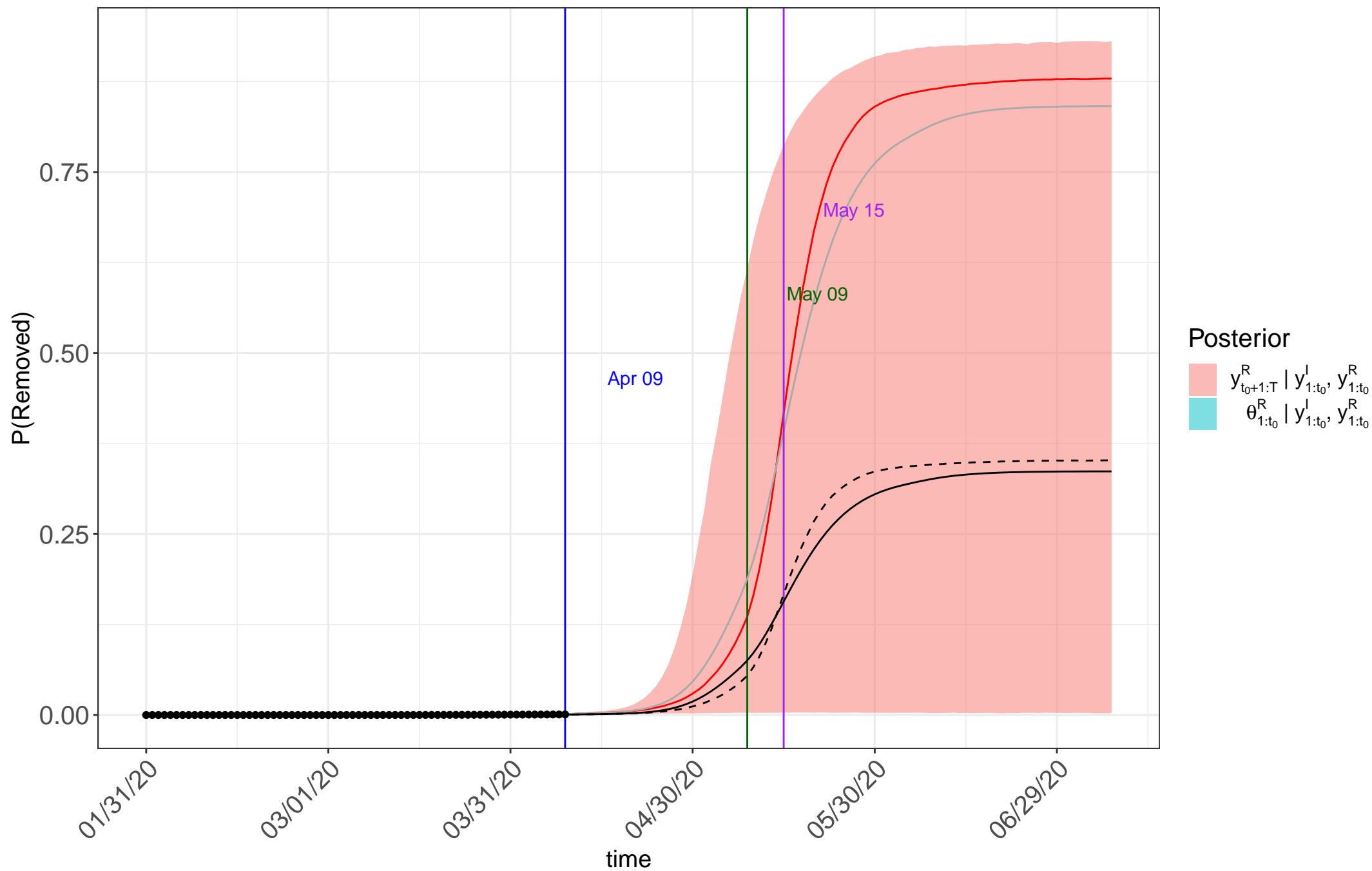
# Italy\_lockdown: removed forecast with prior $\beta_0=1, \gamma_0=0.863$ and $R_0=1.16$

posterior:  $\beta_p=1.63, \gamma_p=0.372$  and  $R_0=4.4$



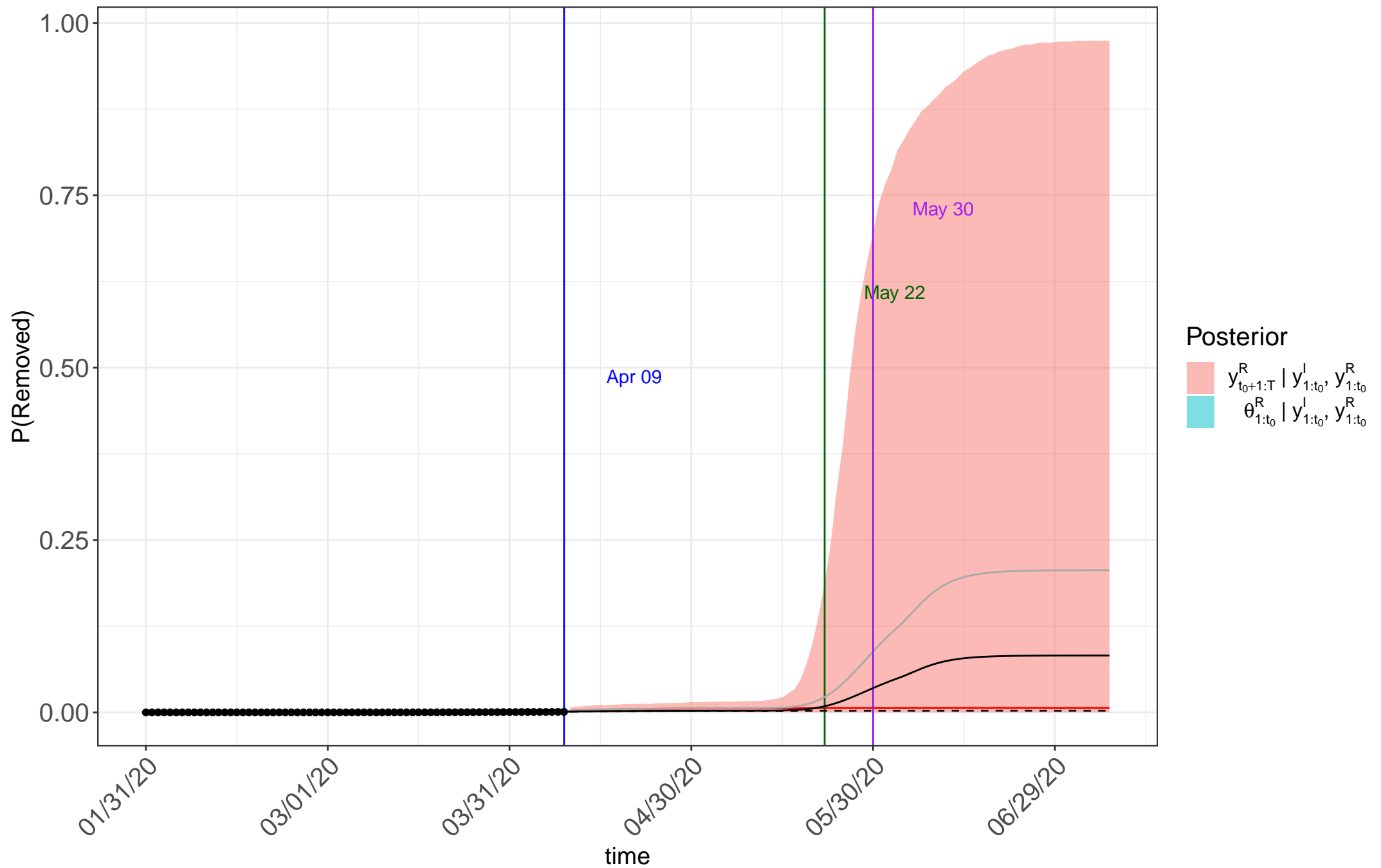
Italyafter\_easter\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.863$  and  $R_0=1.16$

posterior:  $\beta_p=1.31, \gamma_p=0.316$  and  $R_0=4.17$



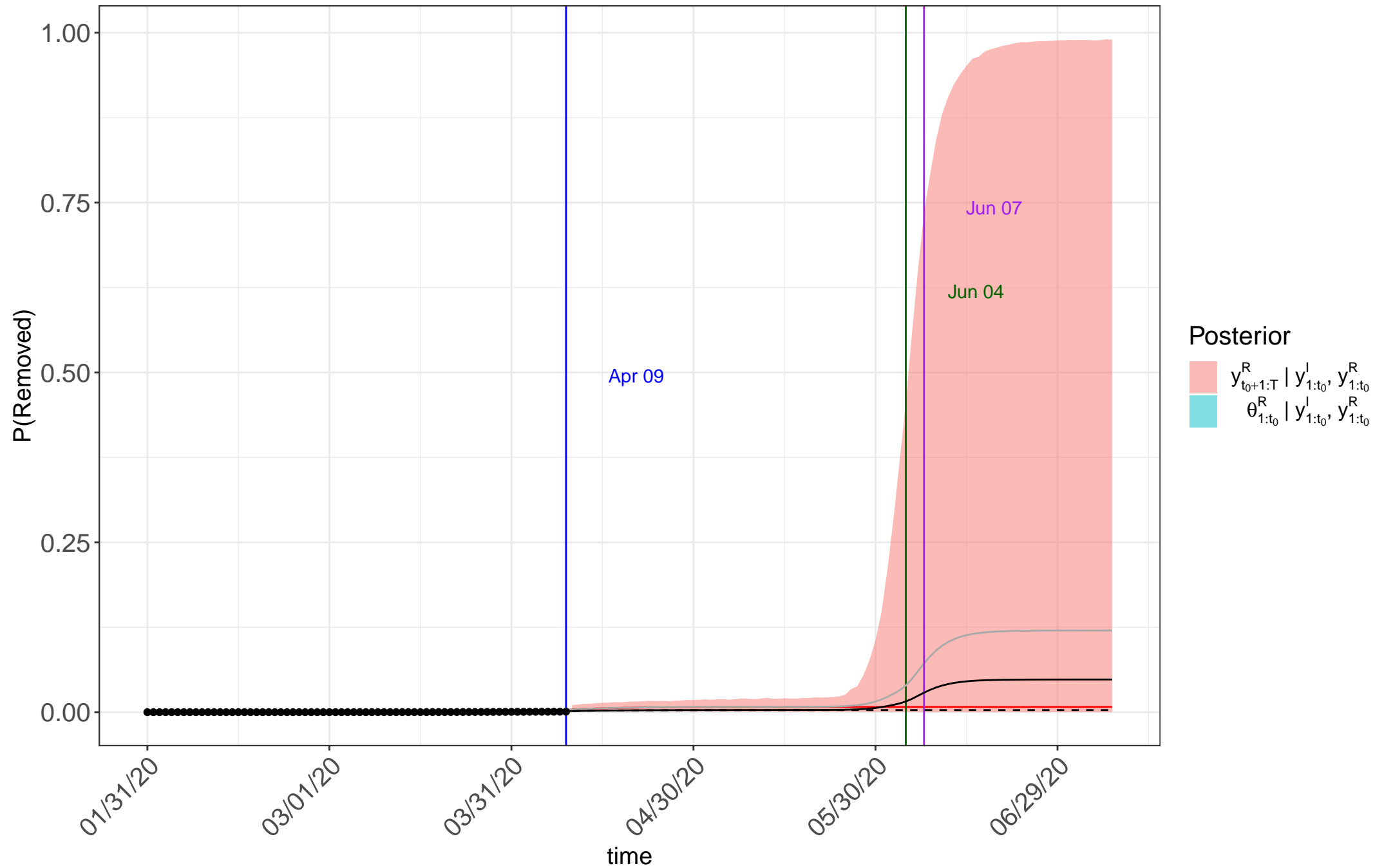
Italystep\_after\_1\_may\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.863$  and  $R_0=1.16$

posterior:  $\beta_p=1.45, \gamma_p=0.343$  and  $R_0=4.24$



Italy\_after\_1\_may\_and\_18\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.863$  and  $R_0=1.16$

posterior:  $\beta_p=1.63, \gamma_p=0.374$  and  $R_0=4.39$



Italyafter\_2\_june\_reopen: removed forecast with prior  $\beta_0=1, \gamma_0=0.863$  and  $R_0=1.16$

posterior:  $\beta_p=1.59, \gamma_p=0.356$  and  $R_0=4.48$

