



Universidade Federal do Ceará

Modelagem epidemiológica do COVID19 para o Estado do Ceará empregando o modelo SEIIR

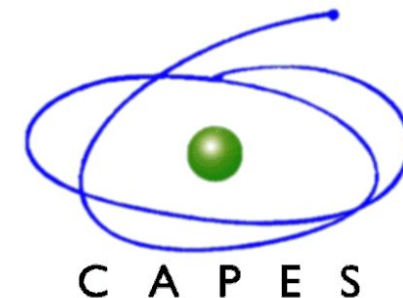
Equipe Cientista-Chefe de Dados (UFC & CAPP-IPECE):

José Soares de Andrade (UFC-Física)

Humberto Carmona (UFC-Física)

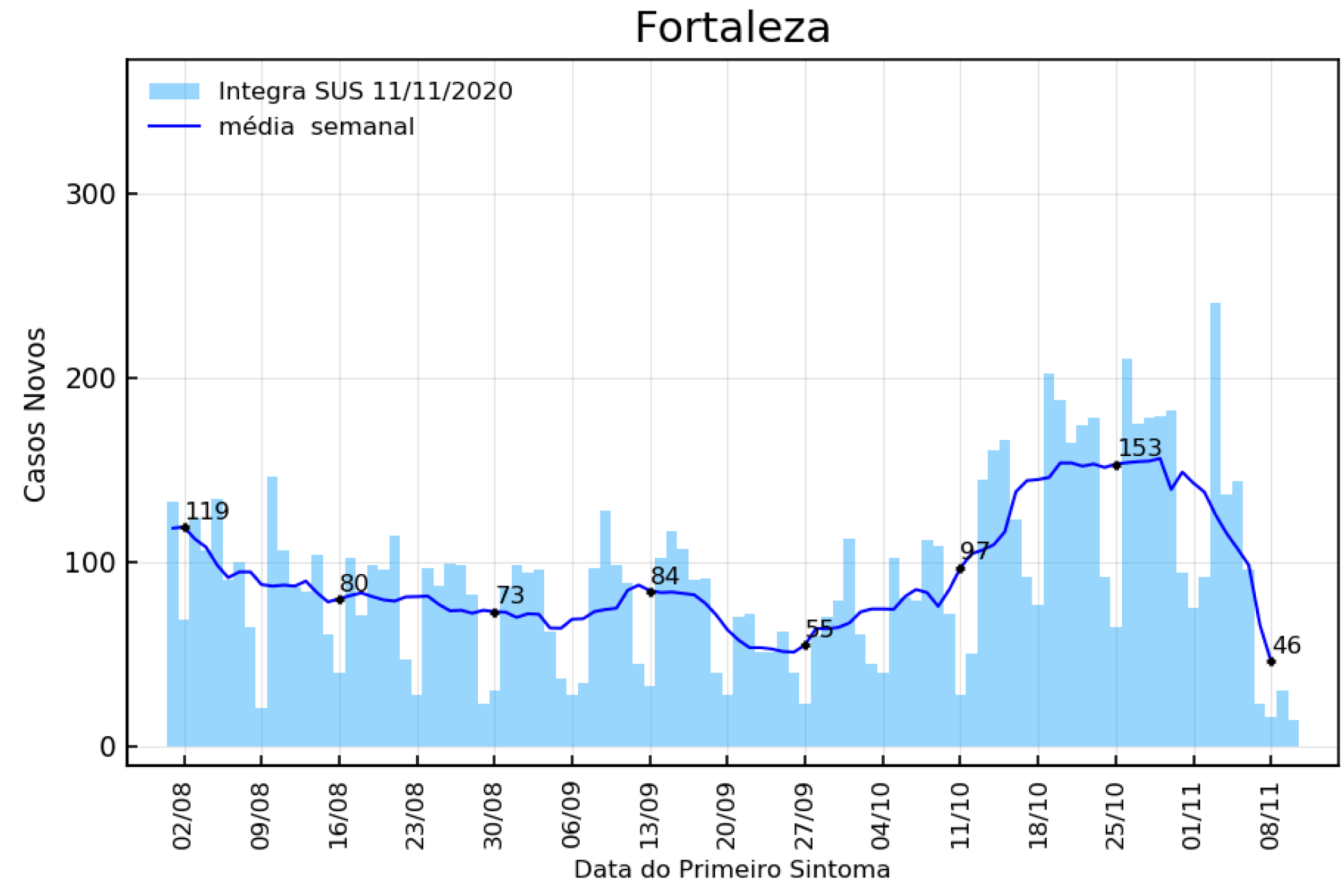
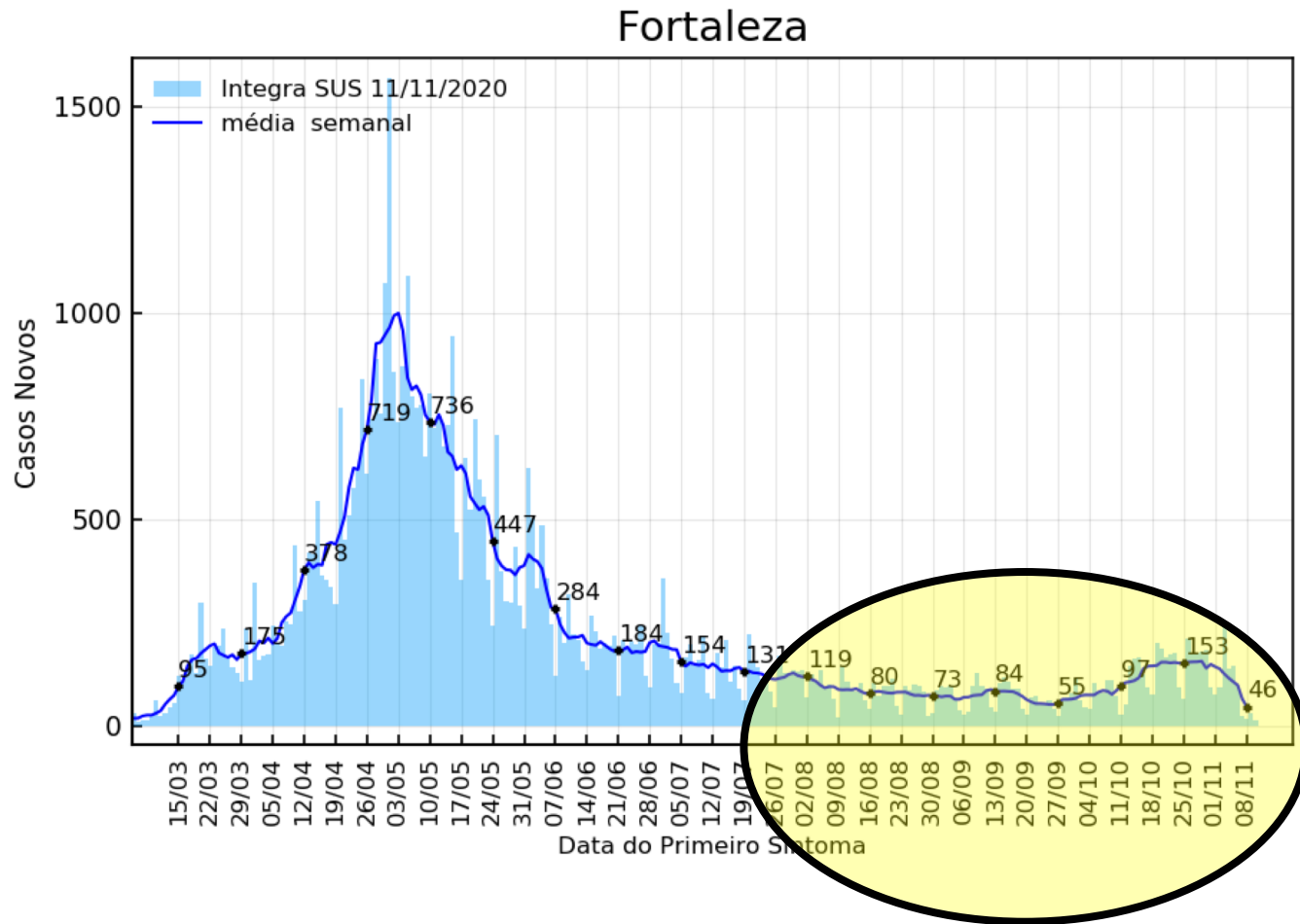
Rilder Pires (CAPP-IPECE-SEPLAG)

Saulo Reis (UFC-Física)

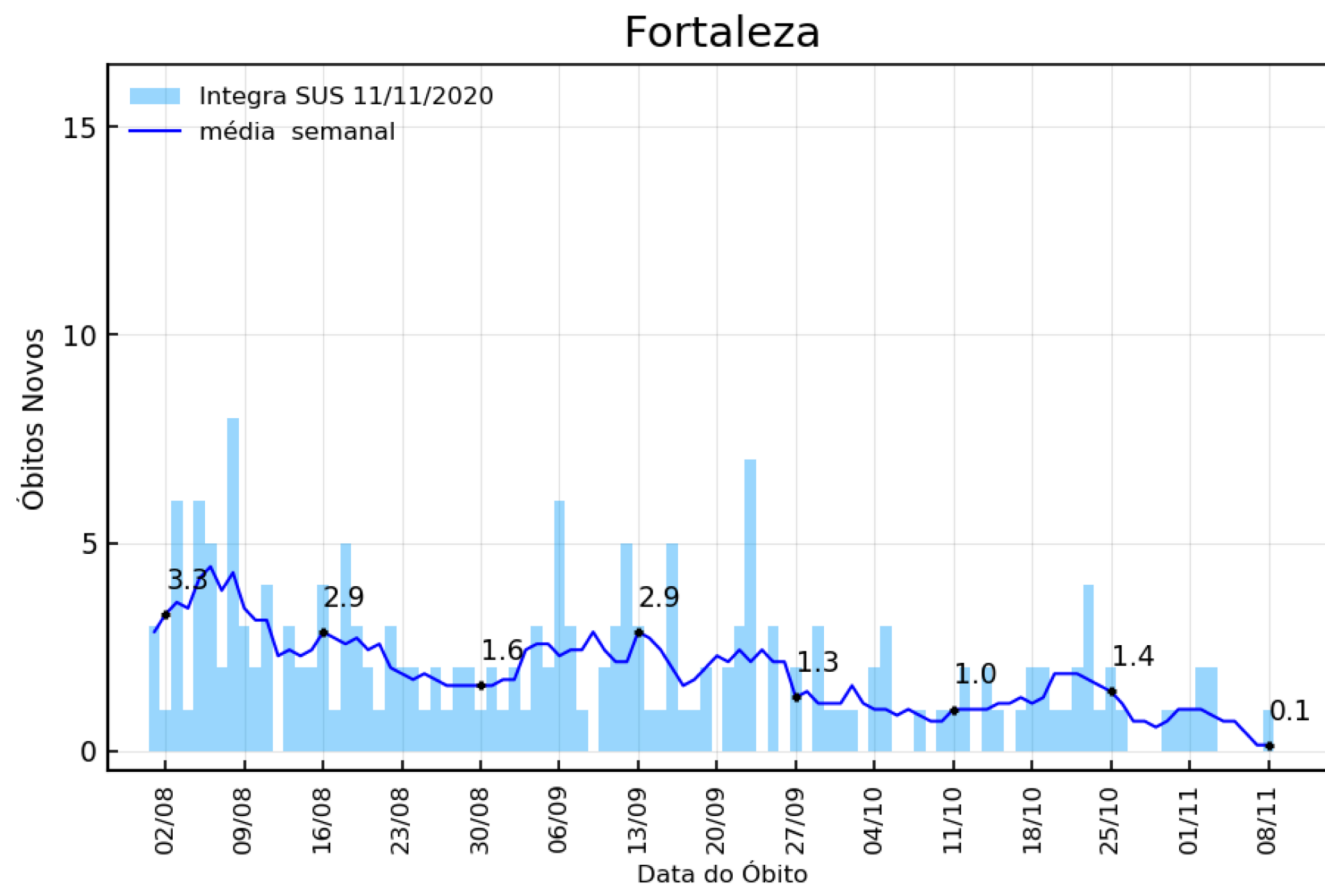
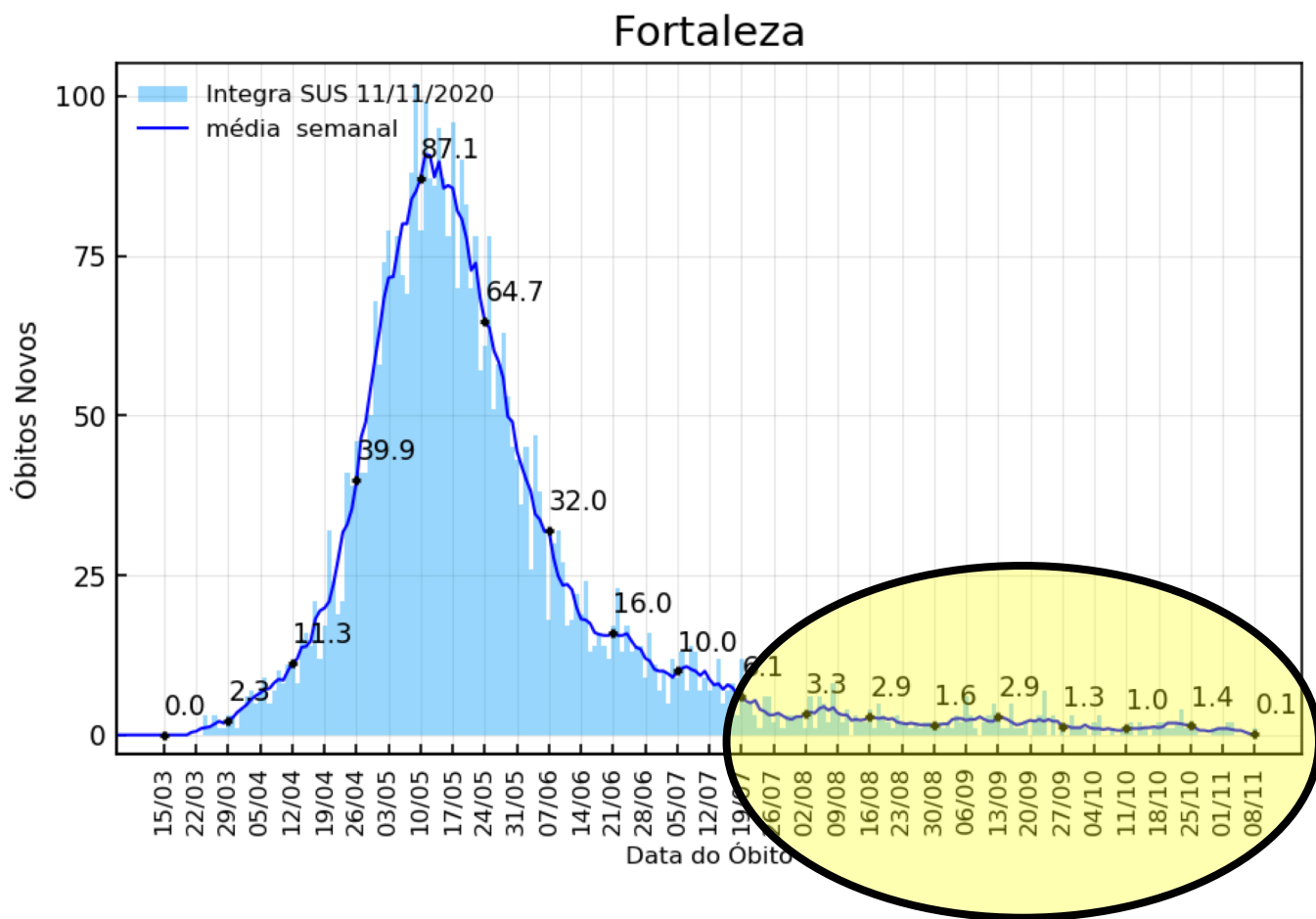


Fortaleza (capital)

Dados atualizados em 11/11/2020

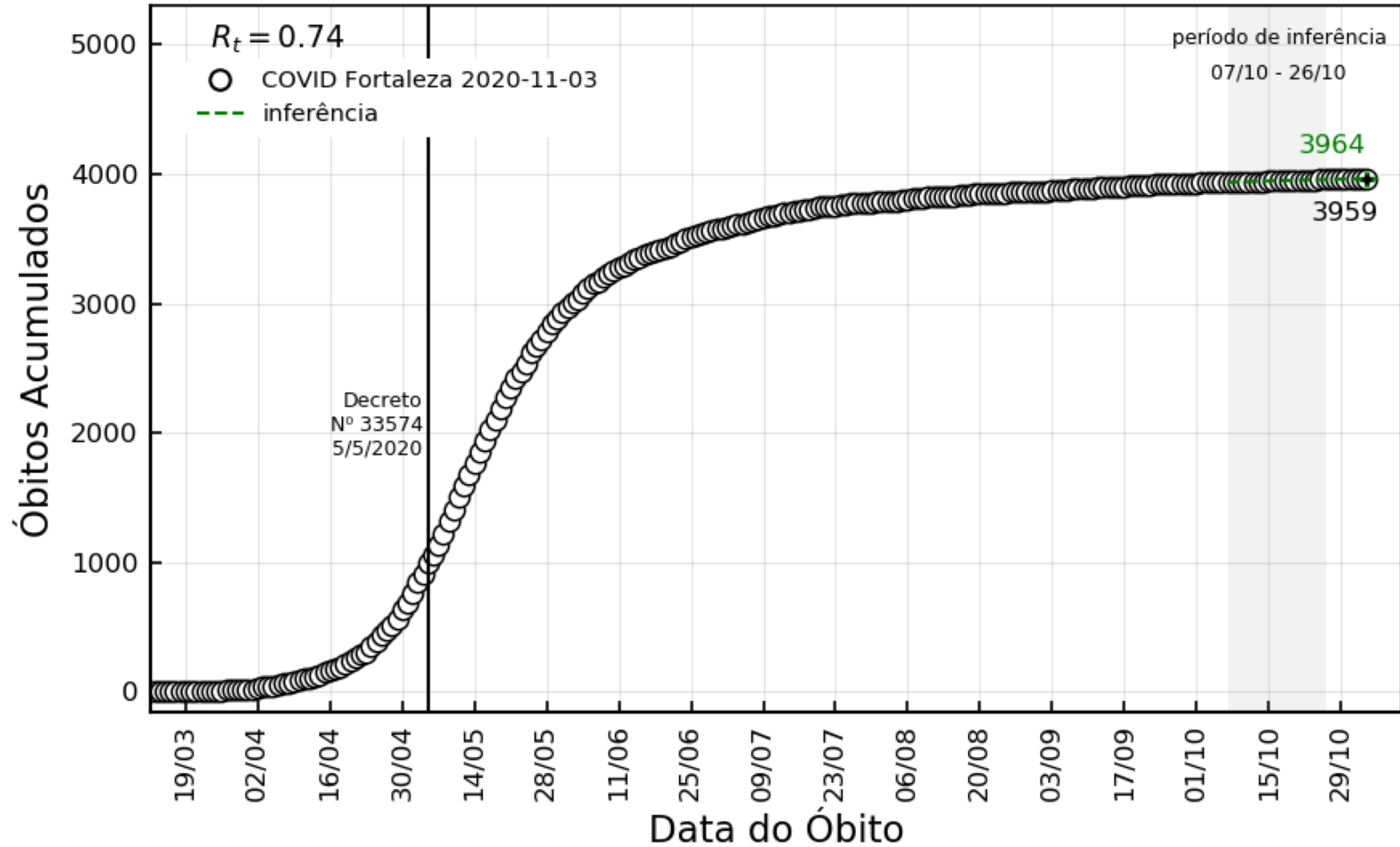


Dados atualizados em 11/11/2020



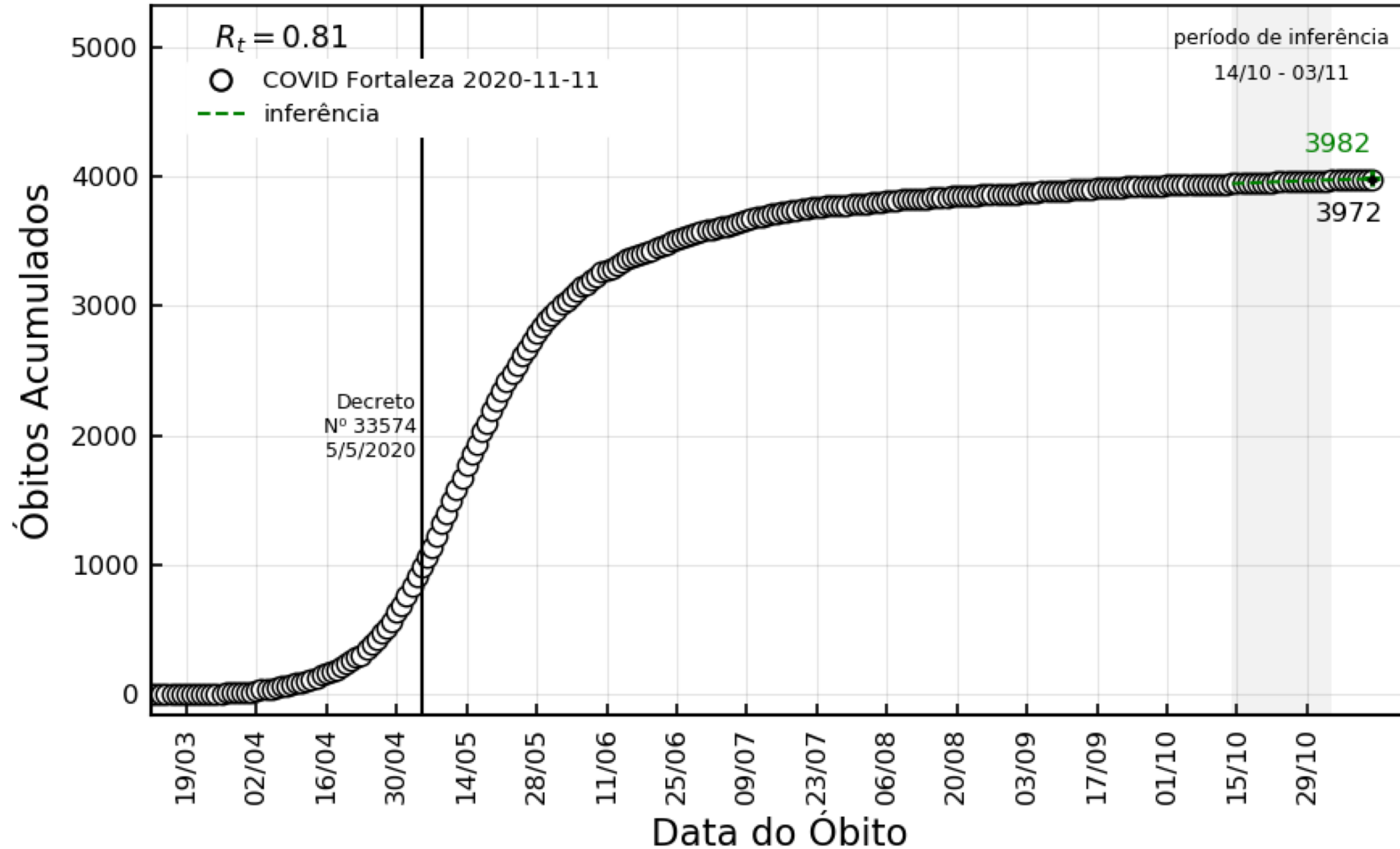
Inferência 03/11/2020

Fortaleza



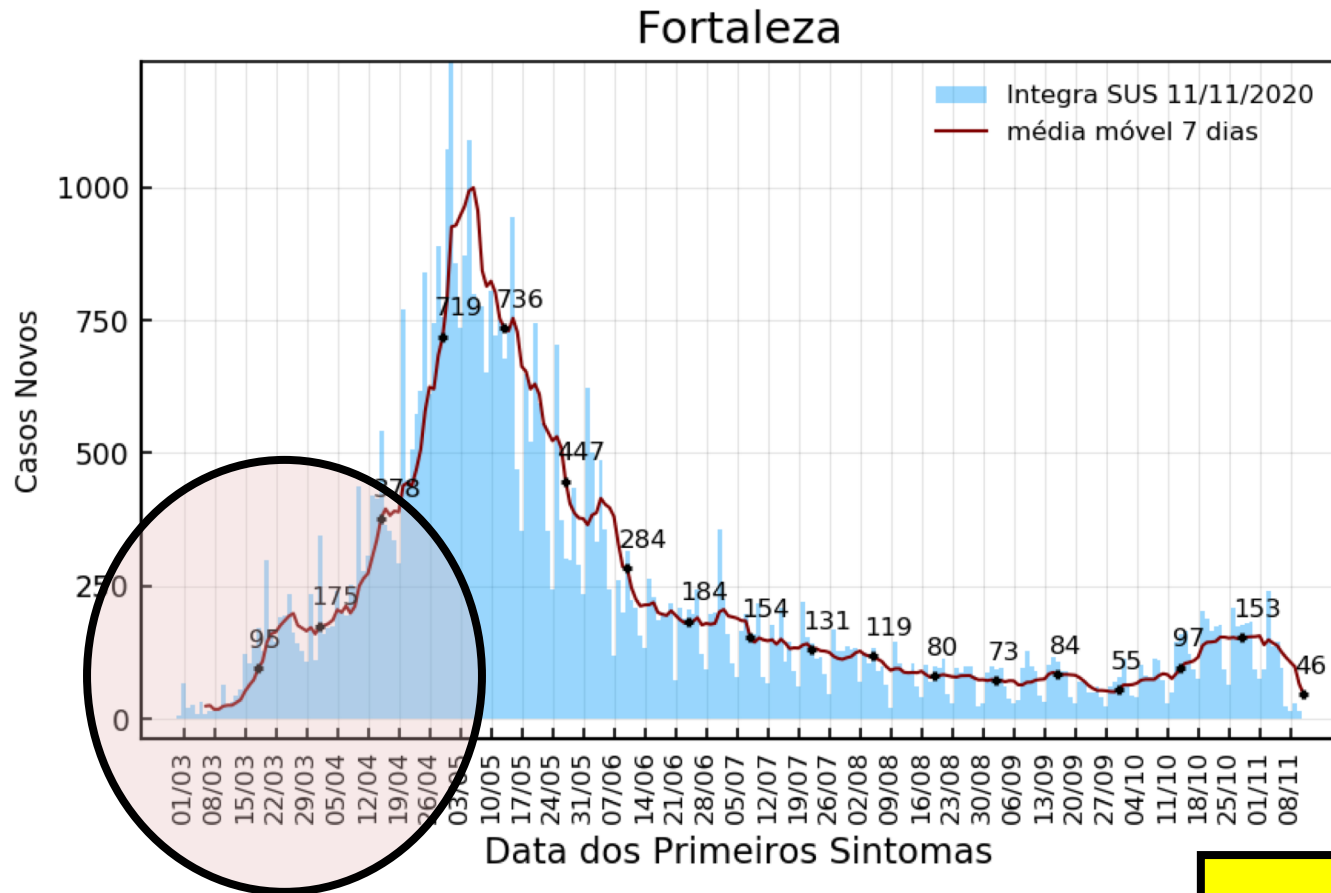
Inferência 11/11/2020

Fortaleza

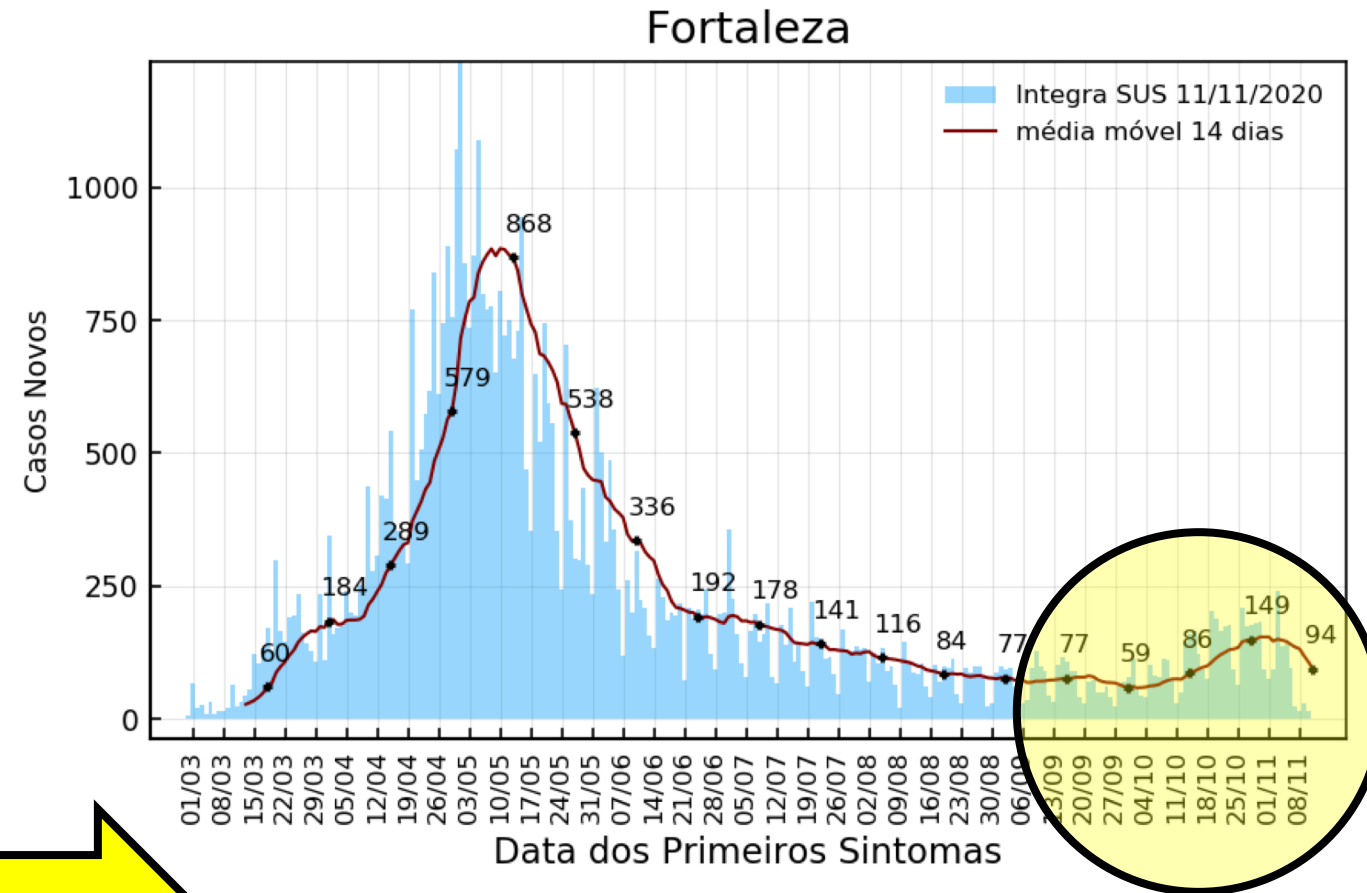


Tempo Característico de Duplicação de Casos (τ)

média móvel de 7 dias

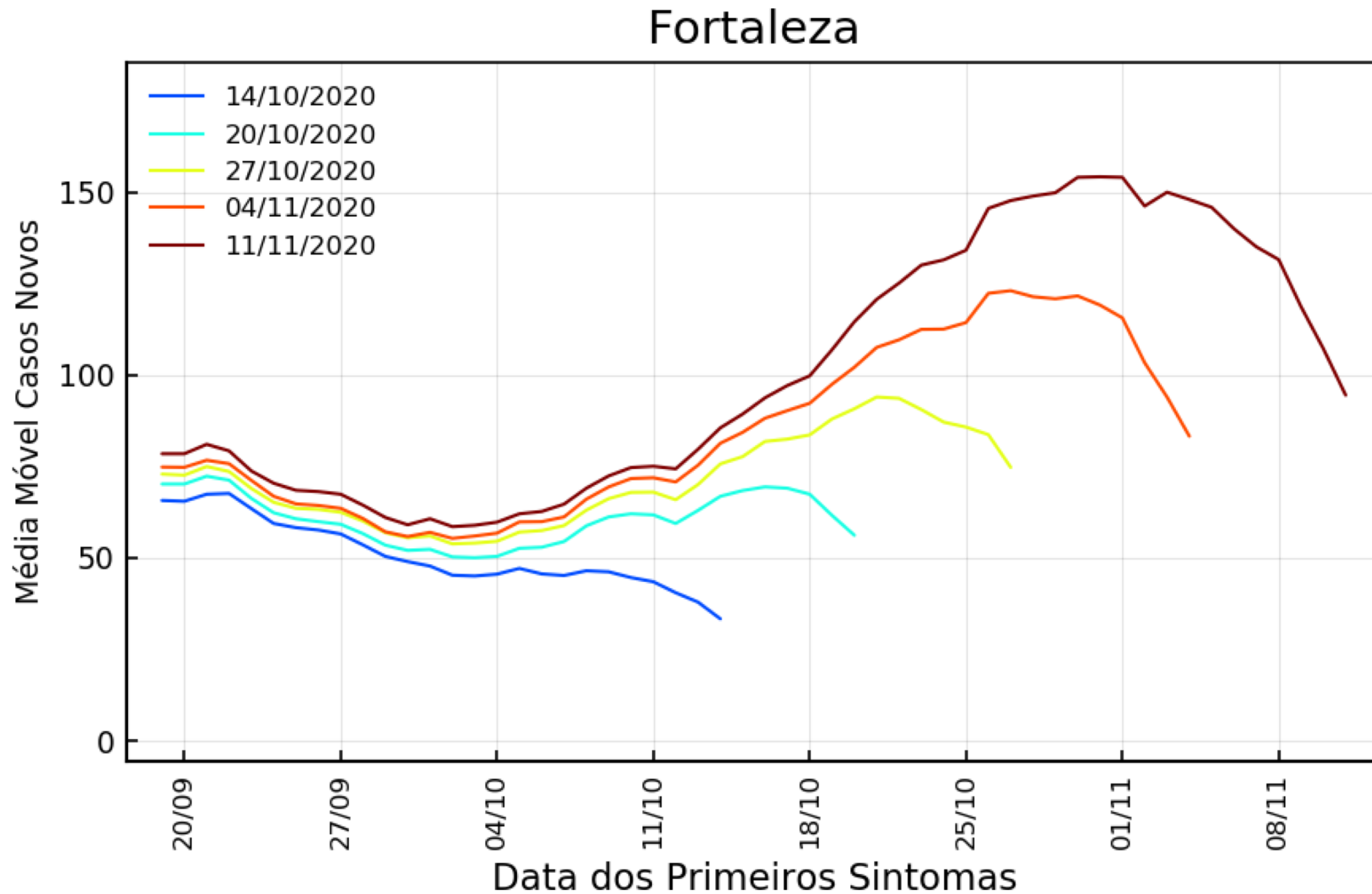


média móvel de 14 dias

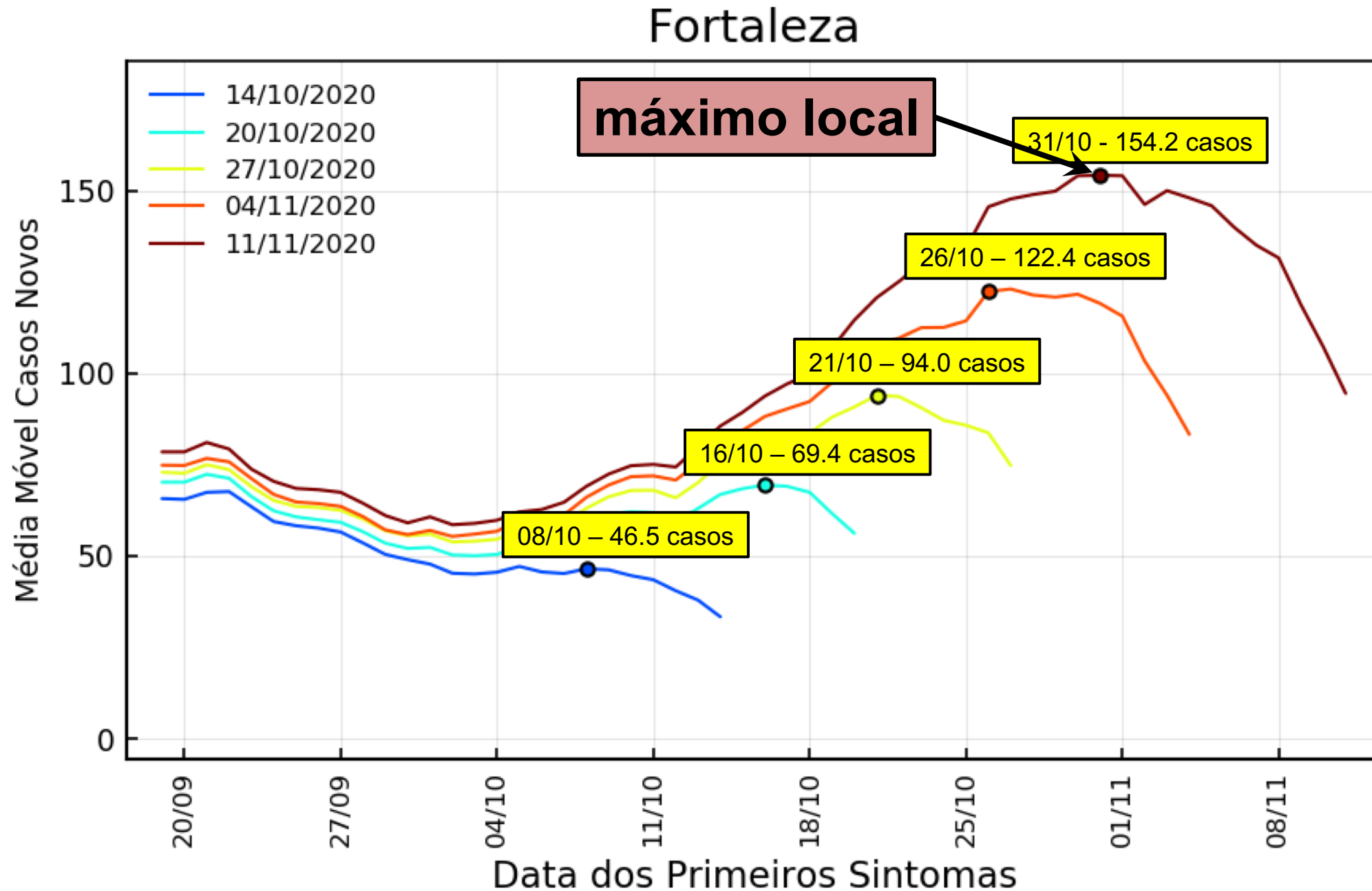


curva mais suave

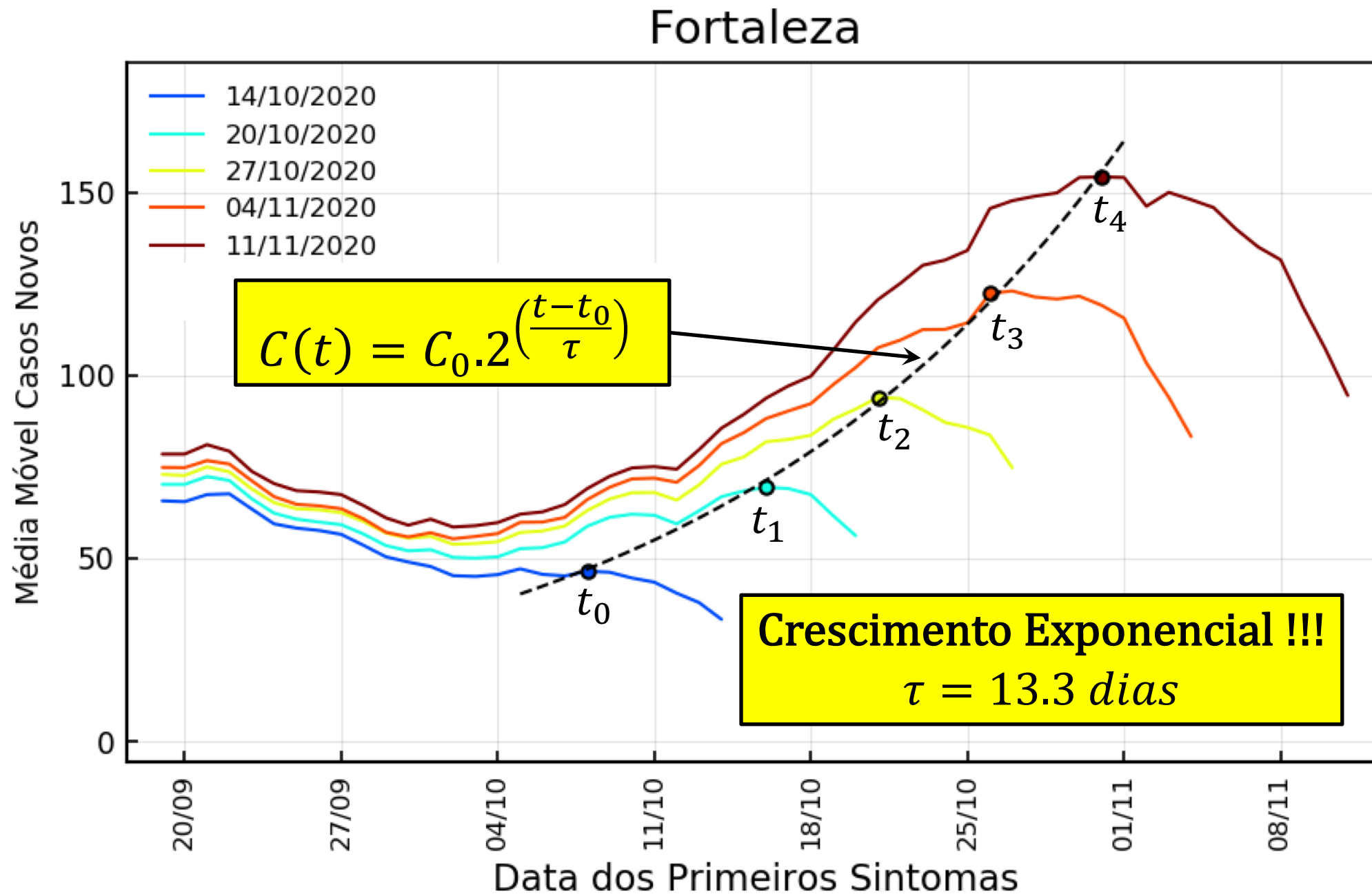
Tempo Característico de Duplicação de Casos (τ)



Tempo Característico de Duplicação de Casos (τ)



Tempo Característico de Duplicação de Casos (τ)



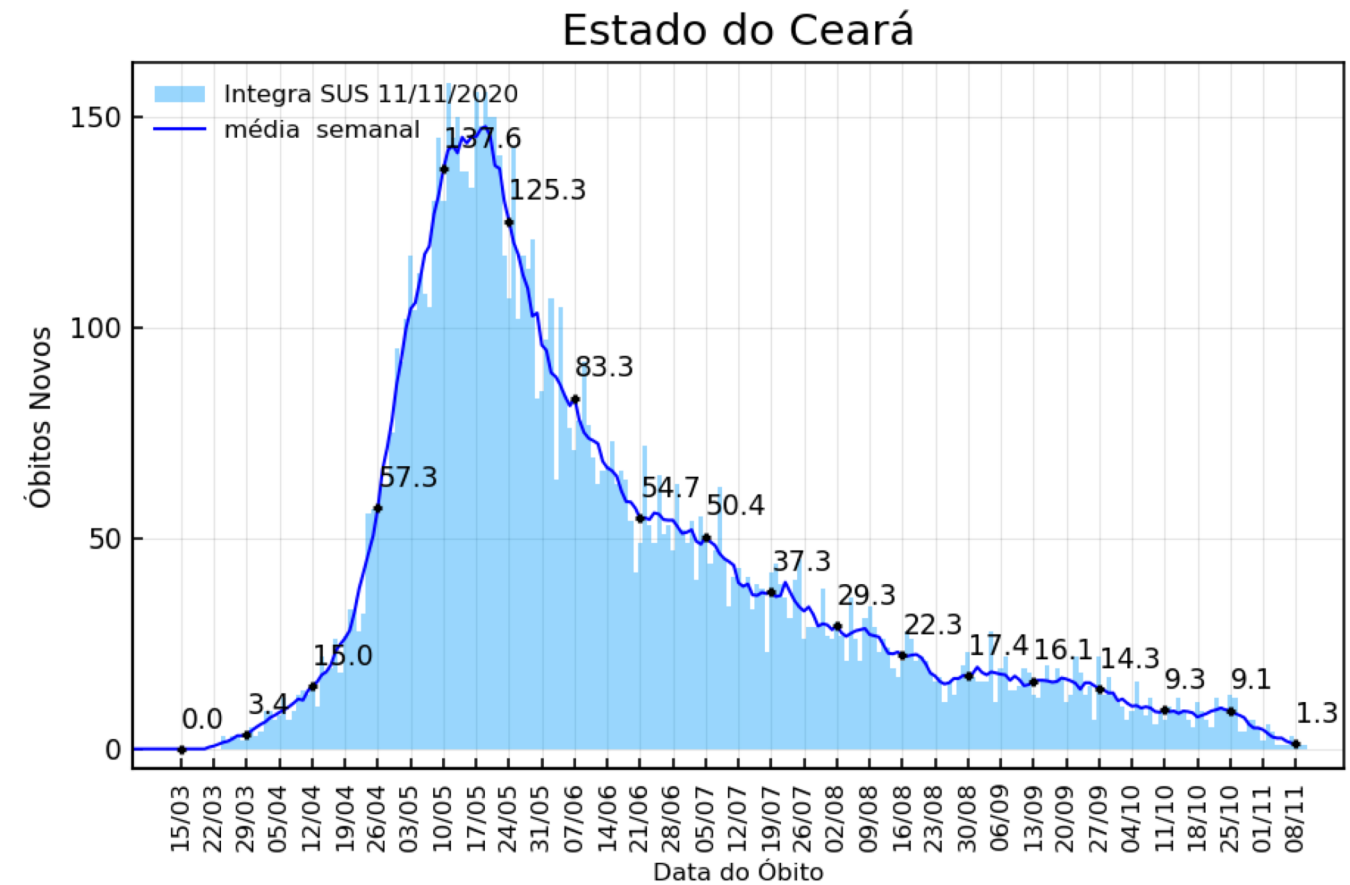
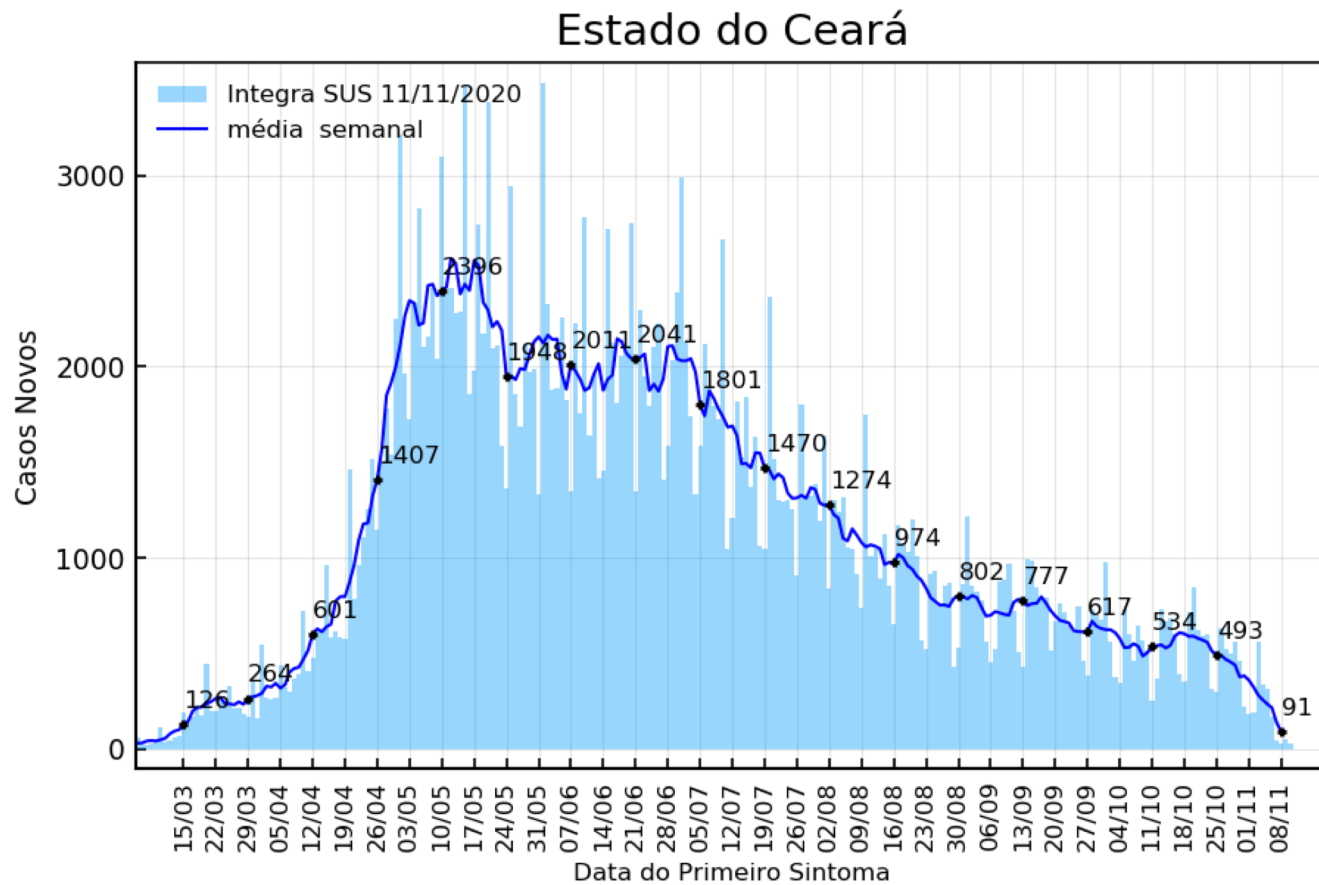
Ceará & Regiões

REGIÃO	POPULAÇÃO (IBGE 2020)
Fortaleza	4.817.822
Sobral	1.643.656
Cariri	1.523.245
Sertão Central	652.591
Litoral Leste/Jaguaribe	549.789

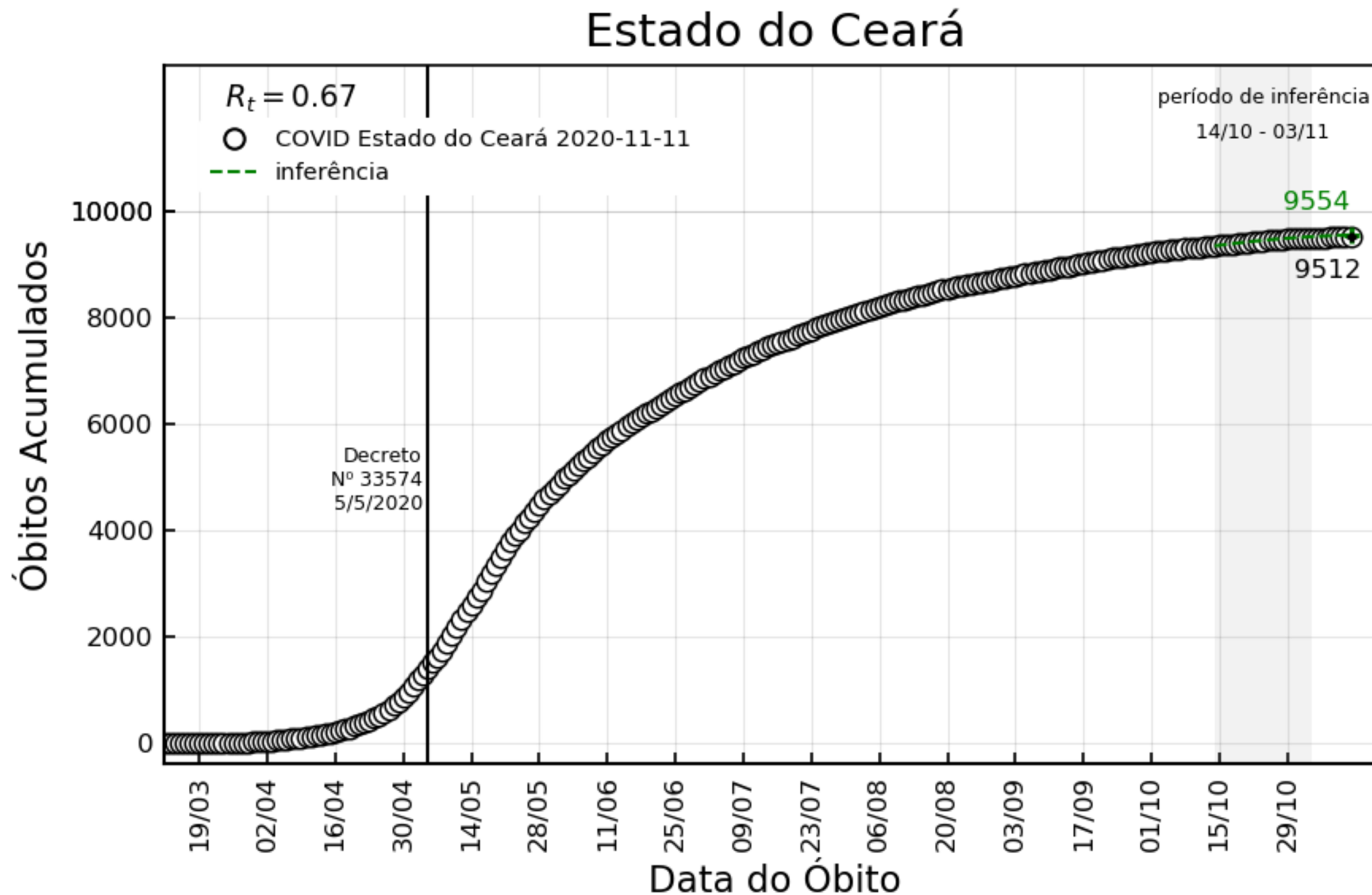
População do Ceará = 9.187.103 habitantes

Estado do Ceará

Dados atualizados em 11/11/2020



Dados atualizados em 11/11/2020

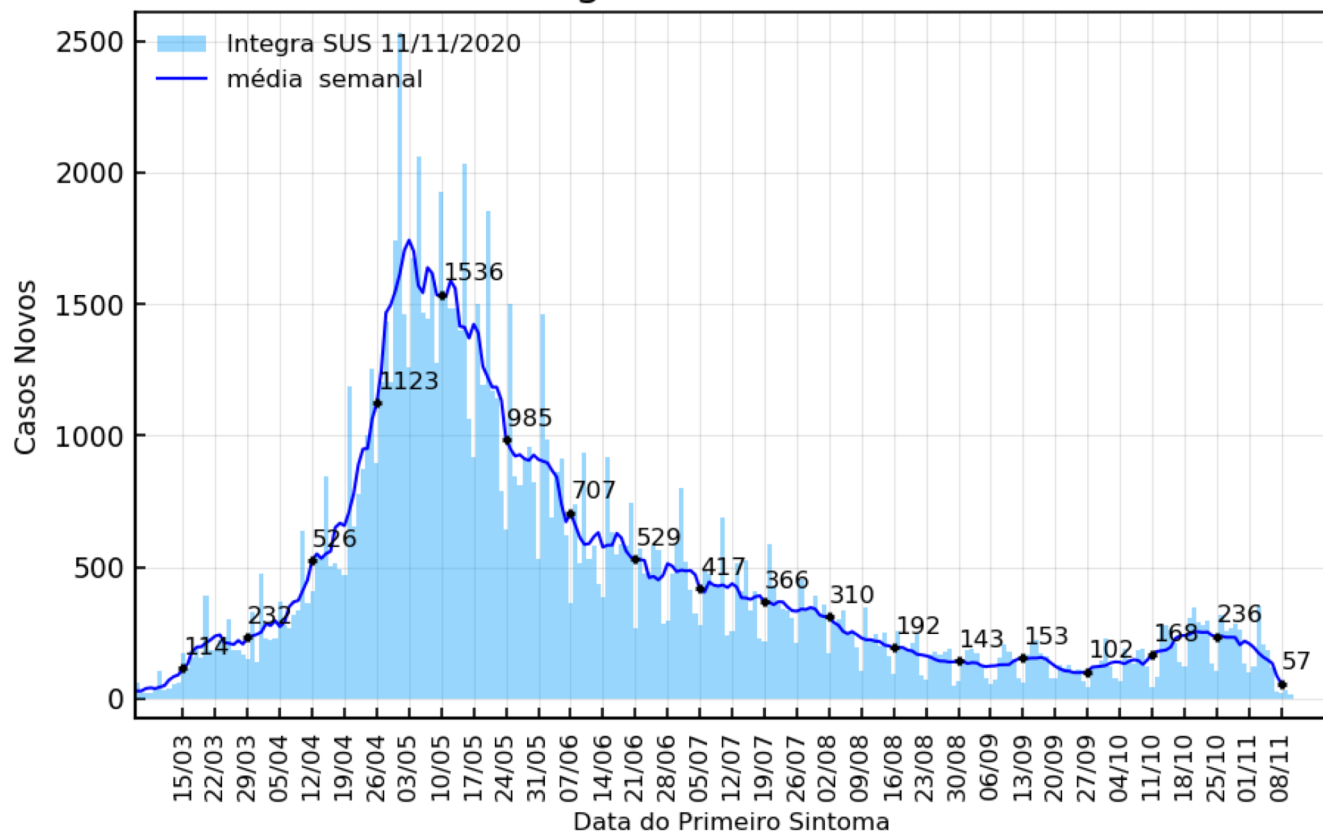


Janela de Inferência	R_t
05/08 – 04/09	0.76
12/08 – 11/09	0.77
19/08 – 18/09	0.79
26/08 – 25/09	0.82
09/09 – 01/10	0.77
16/09 – 08/10	0.63
23/09 – 15/10	0.67
30/09 – 22/10	0.69
07/10 – 29/10	0.68
14/10 – 03/11	0.67

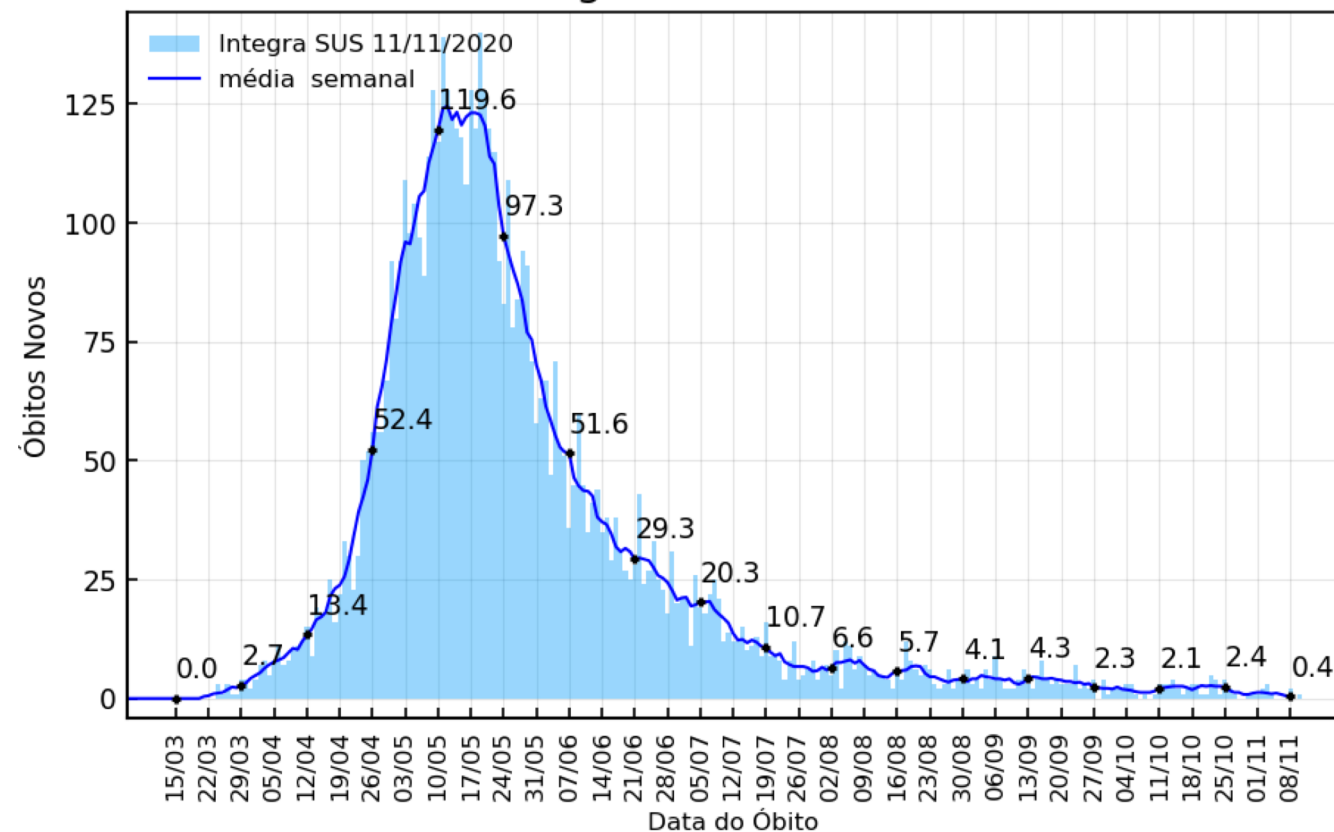
Região Fortaleza

Dados atualizados em 11/11/2020

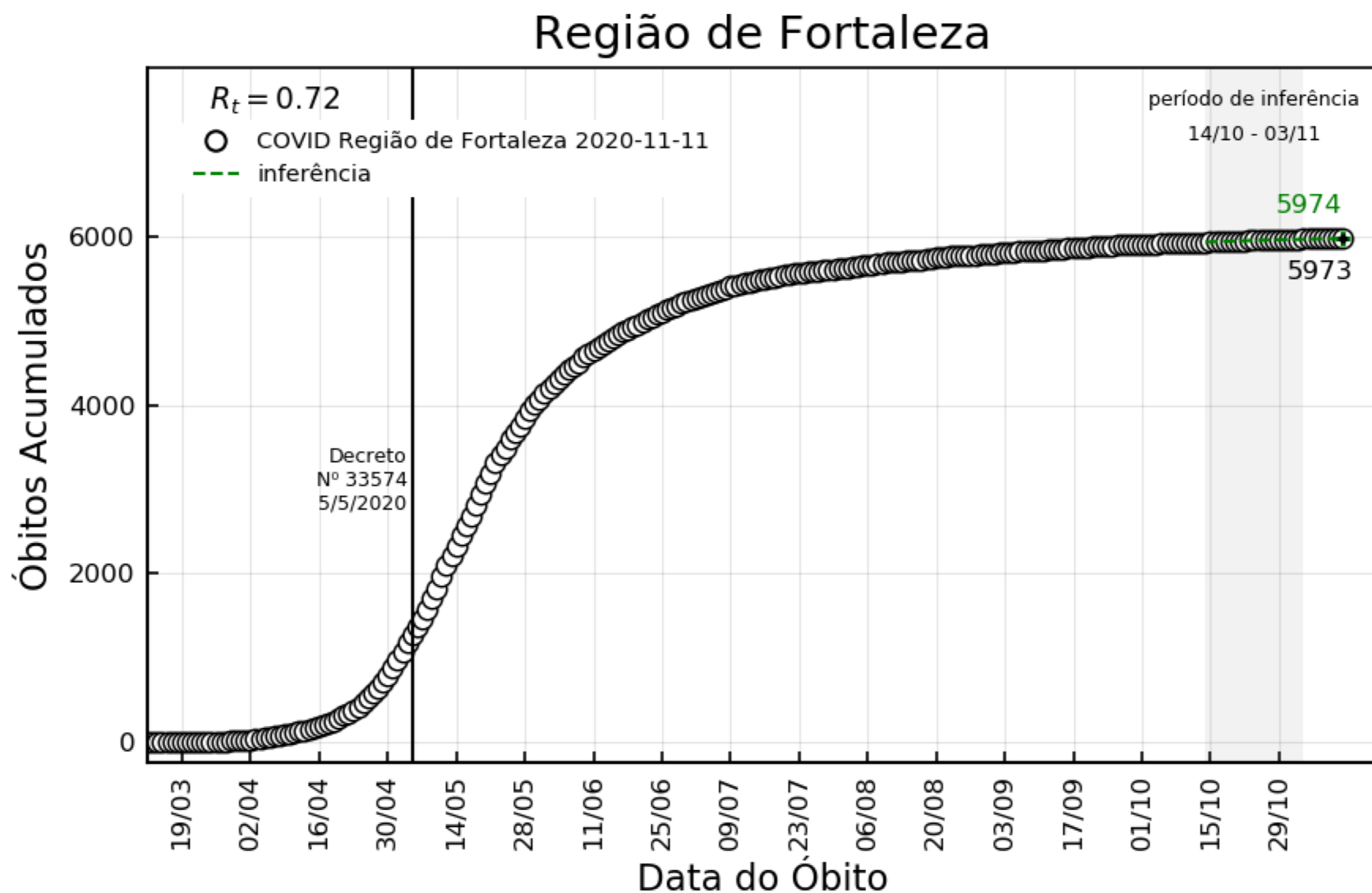
Região de Fortaleza



Região de Fortaleza



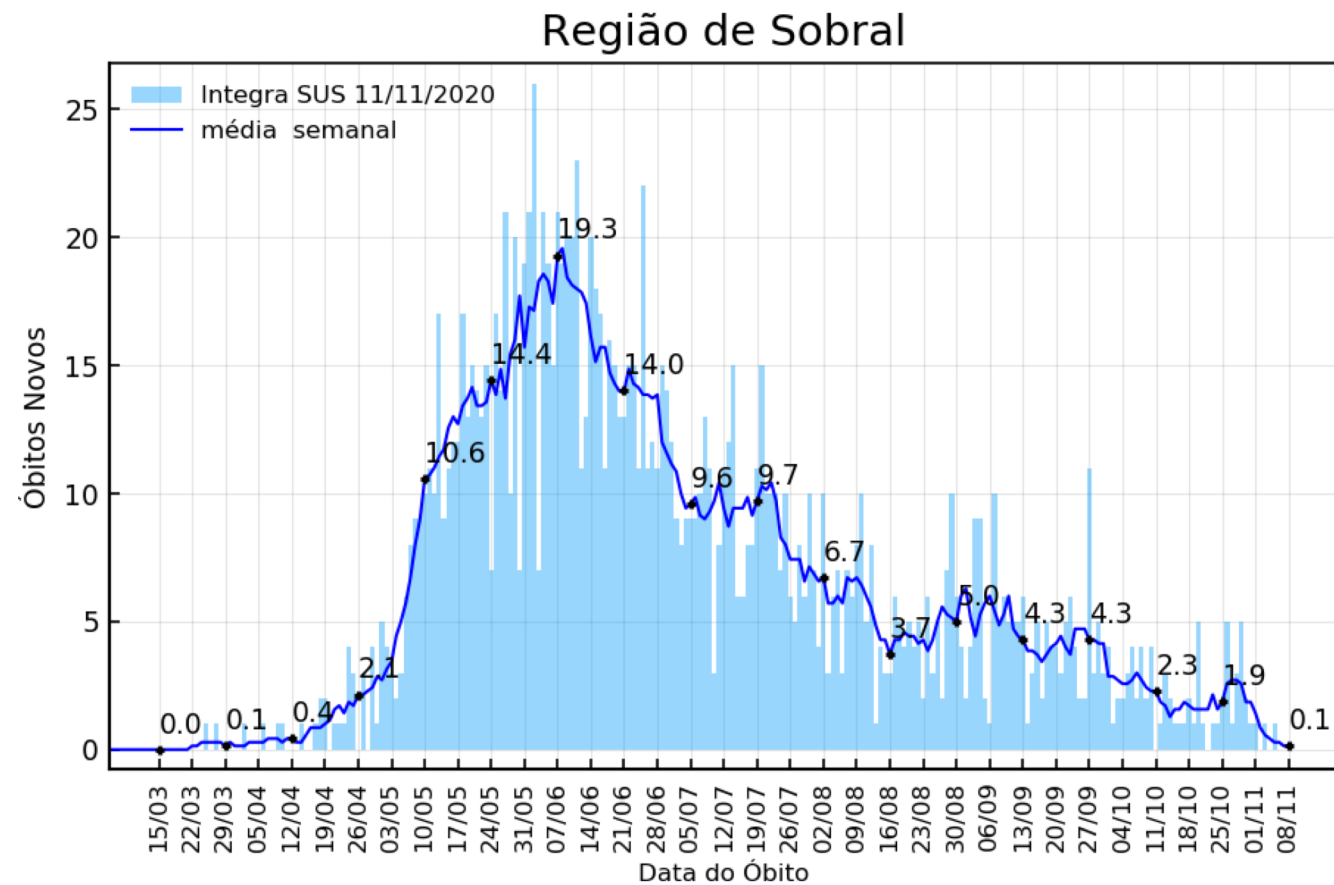
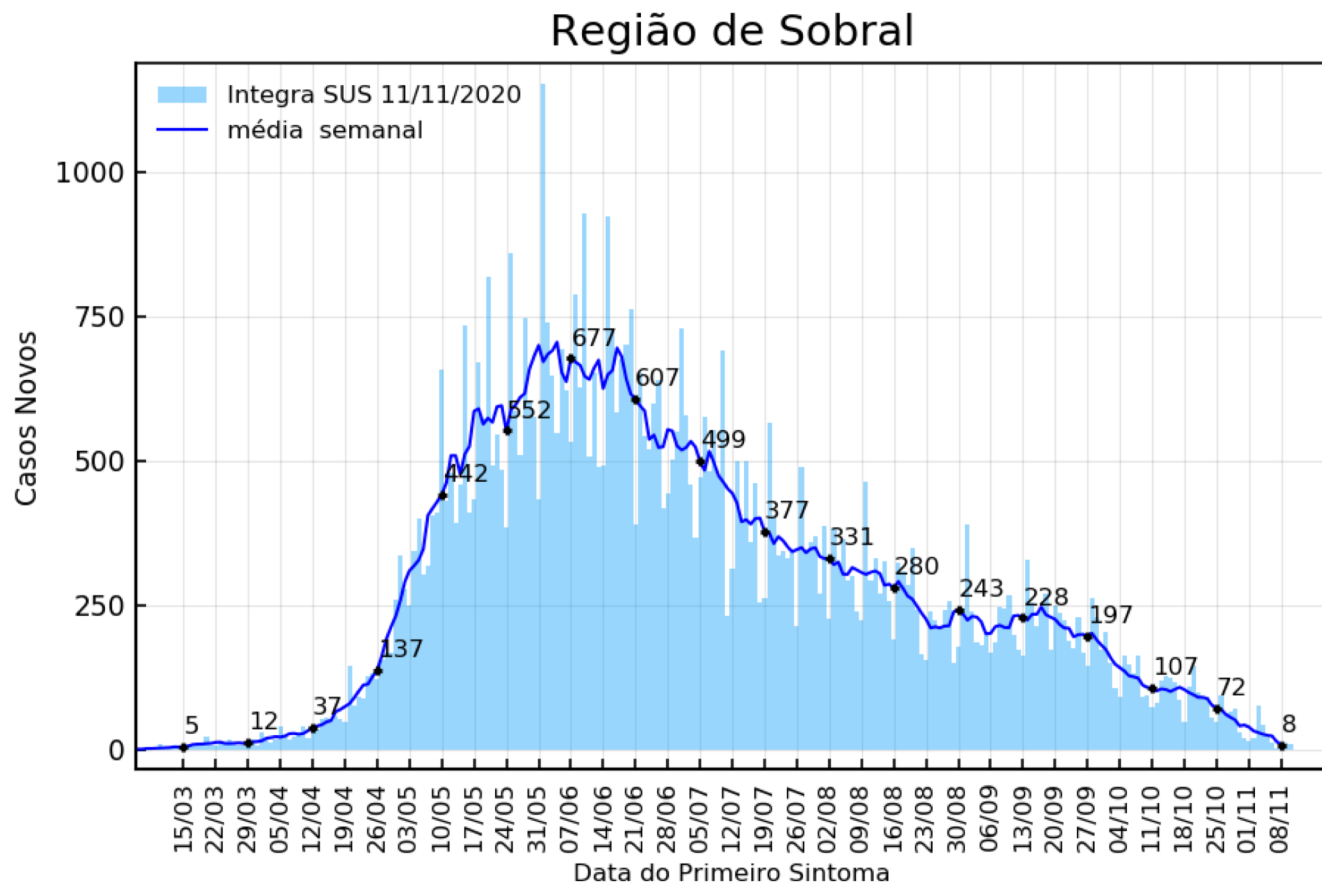
Dados atualizados em 11/11/2020



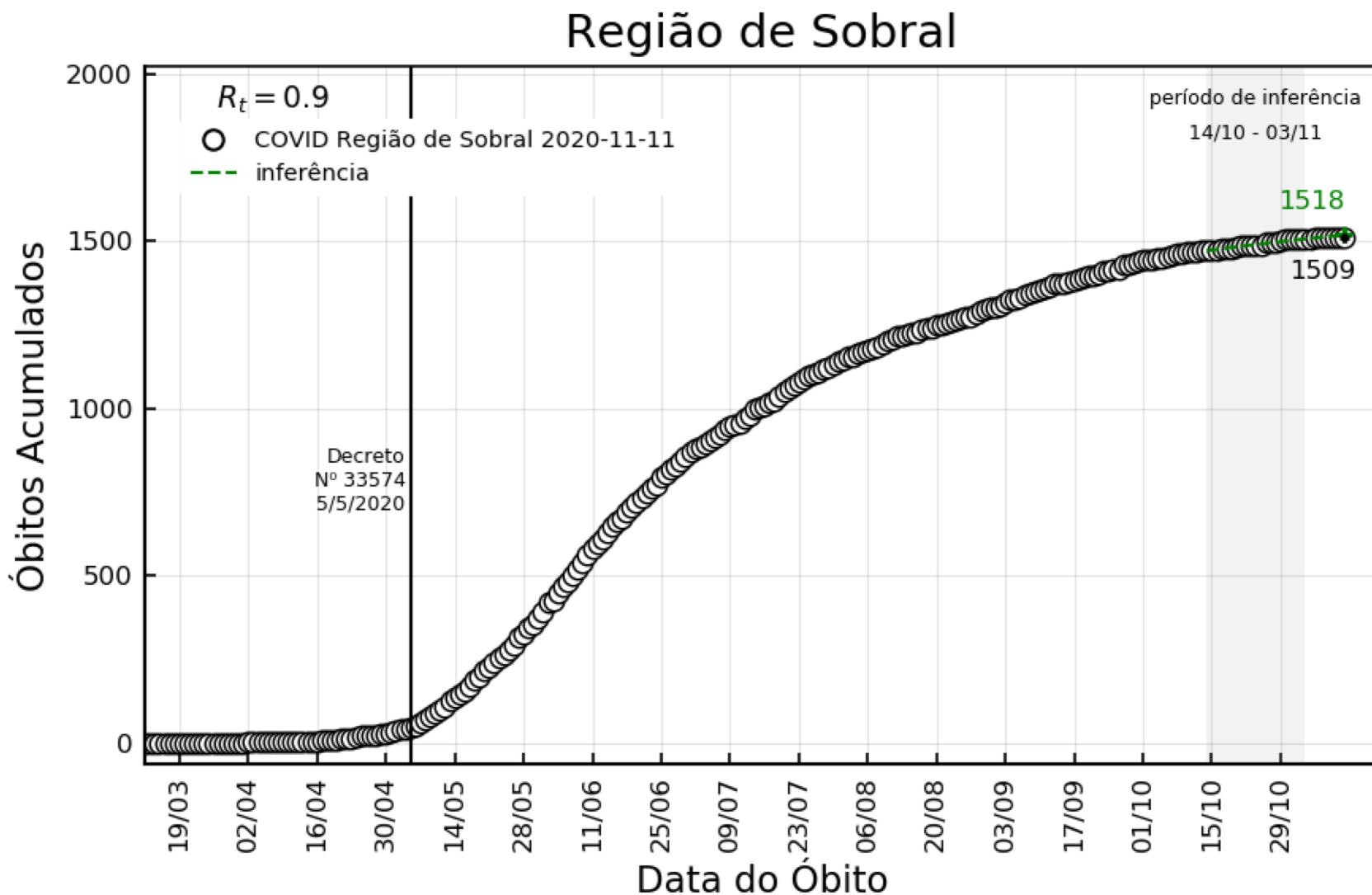
Janela de Inferência	R_t
29/07 – 28/08	0.76
05/08 – 04/09	0.81
12/08 – 11/09	0.76
19/08 – 18/09	0.75
26/08 – 25/09	0.86
09/09 – 01/10	0.75
16/09 – 08/10	0.75
23/09 – 15/10	0.76
30/09 – 22/10	0.77
07/10 – 29/10	0.72
14/10 – 03/11	0.72

Região Sobral

Dados atualizados em 11/11/2020



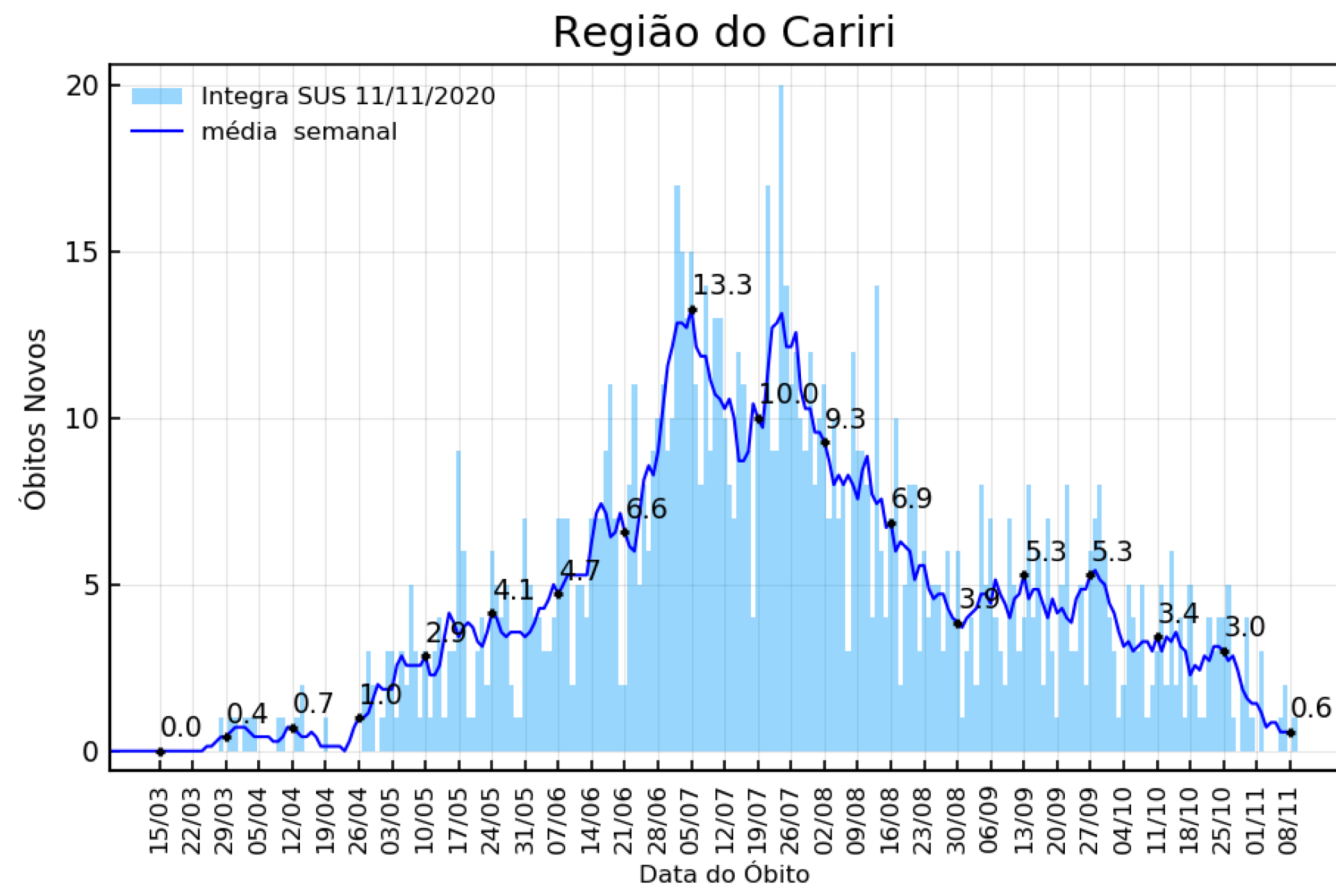
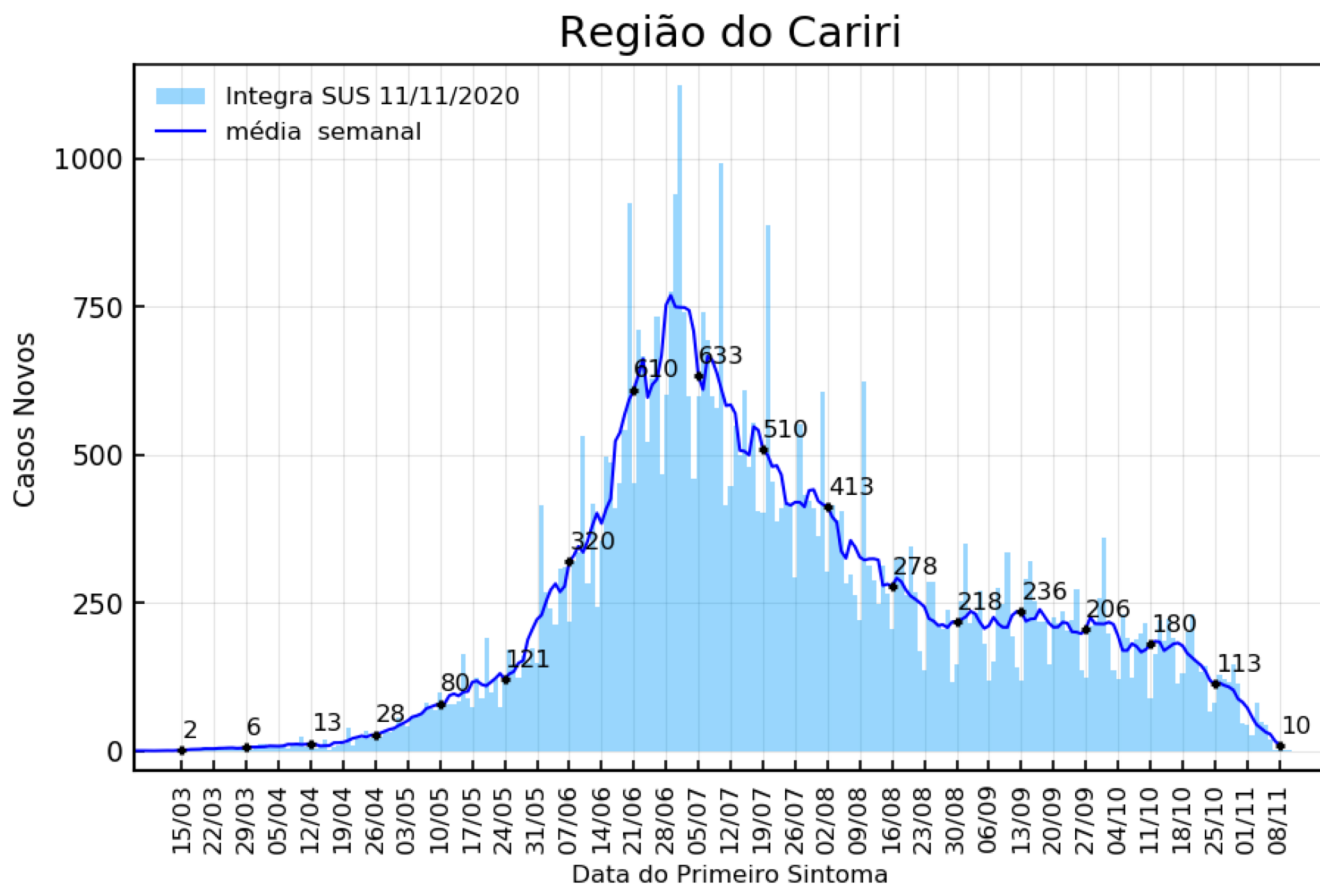
Dados atualizados em 11/11/2020



Janela de Inferência	R_t
29/07 – 28/08	0.80
05/08 – 04/09	0.82
12/08 – 11/09	1.07
19/08 – 18/09	0.95
26/08 – 25/09	0.95
09/09 – 01/10	0.97
16/09 – 08/10	0.84
23/09 – 15/10	0.84
30/09 – 22/10	0.71
07/10 – 29/10	0.84
14/10 – 03/11	0.90

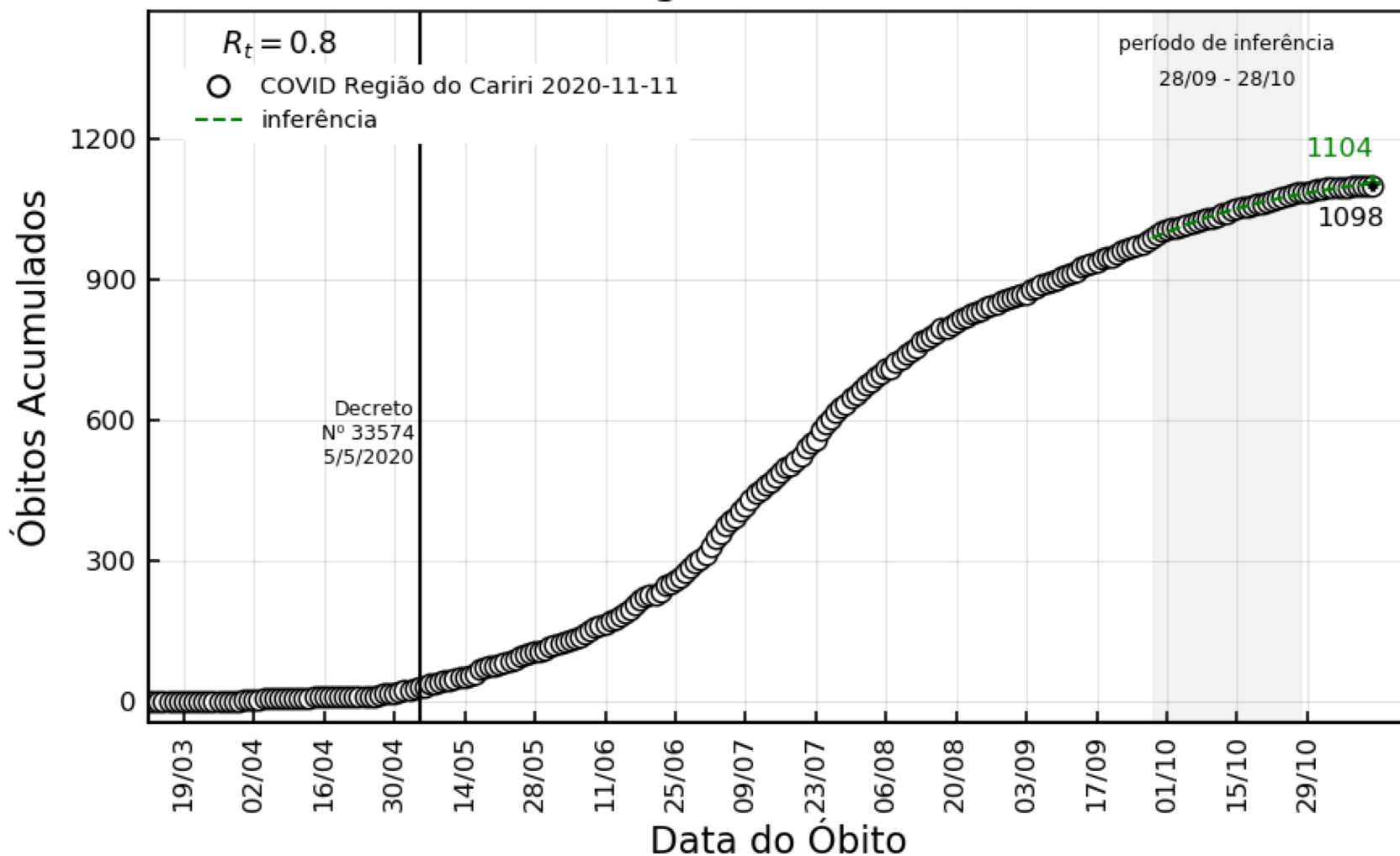
Região Cariri

Dados atualizados em 11/11/2020



Dados atualizados em 11/11/2020

Região do Cariri

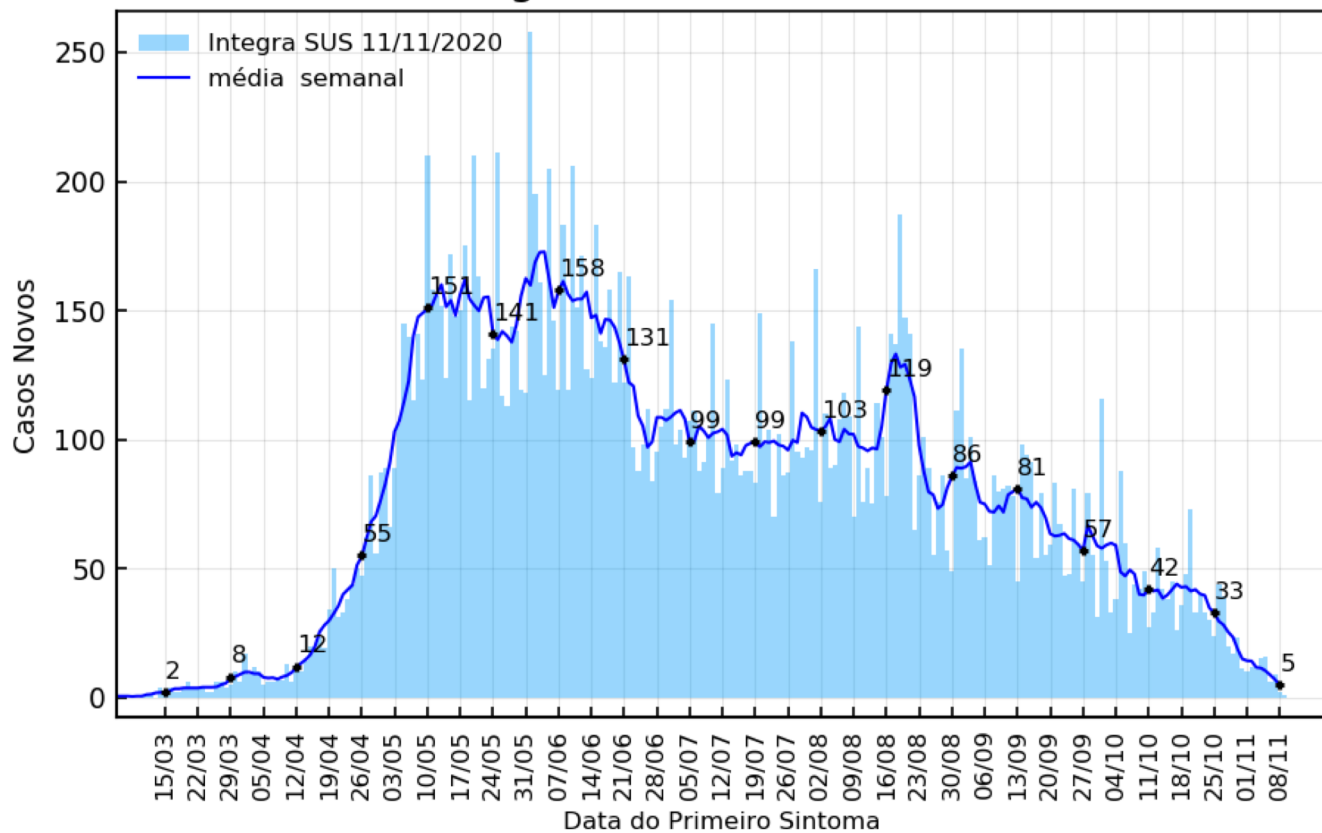


Janela de Inferência	R_t
02/08 – 03/09	0.84
09/08 – 10/09	0.90
16/08 – 17/09	0.98
23/08 – 21/09	1.01
30/08 – 29/09	1.03
07/09 – 07/10	1.07
14/09 – 14/10	0.86
21/09 – 21/10	0.86
28/09 – 28/10	0.80

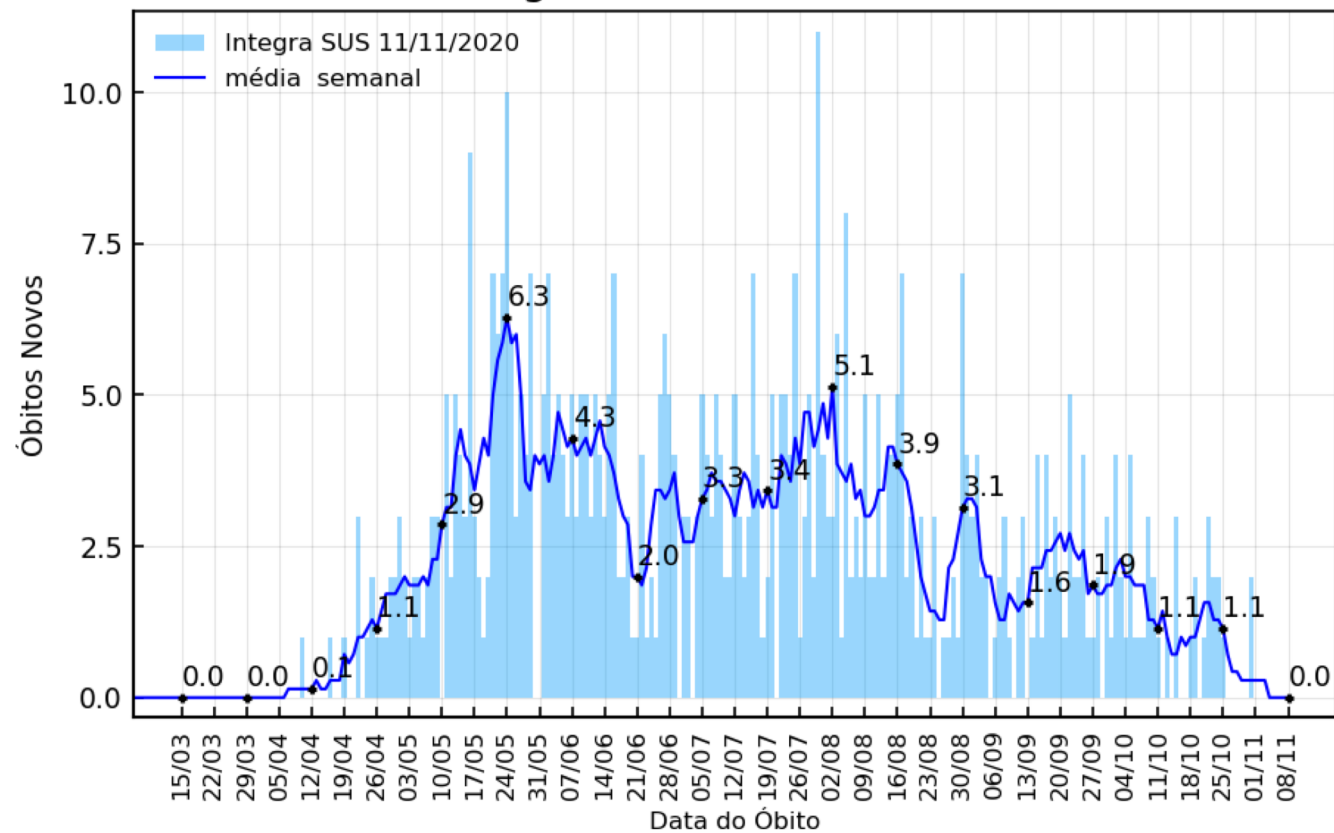
Região Sertão Central

Dados atualizados em 11/11/2020

Região do Sertão Central

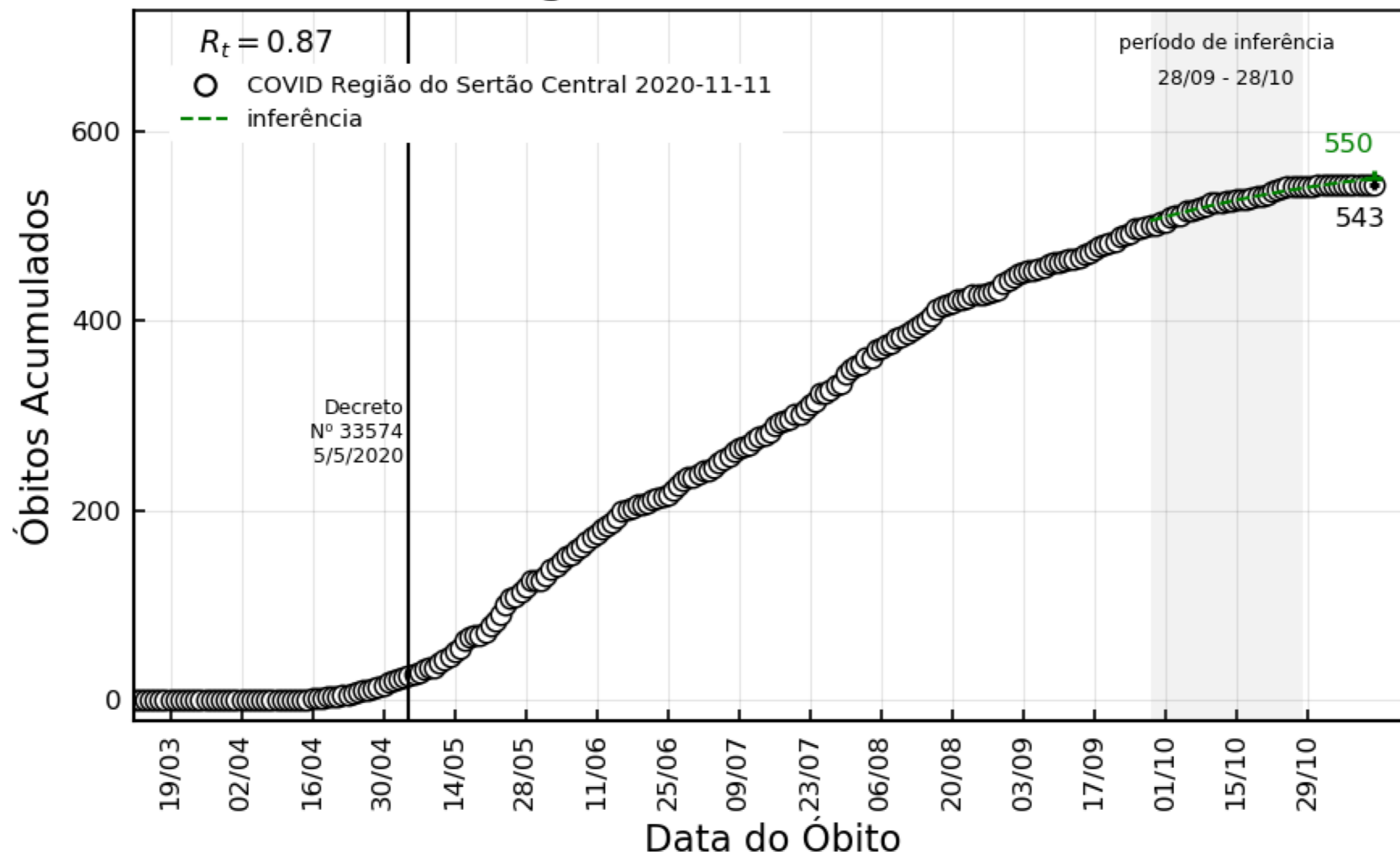


Região do Sertão Central



Dados atualizados em 11/11/2020

Região do Sertão Central



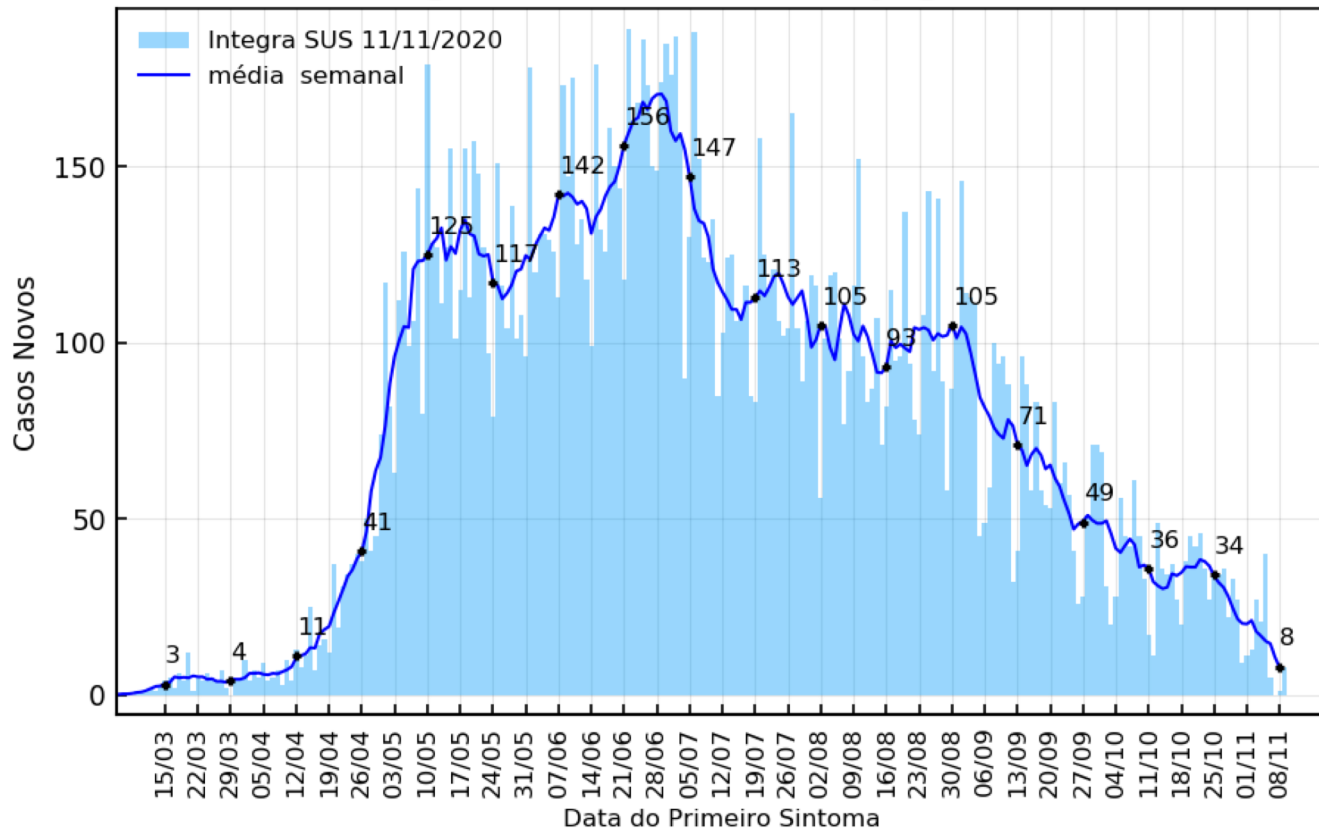
Janela de Inferência	R_t
12/07 – 13/08	1.09
19/07 – 20/08	1.06
29/07 – 31/08	0.91
05/08 – 07/09	0.78
16/08 – 15/09	0.79
23/08 – 21/09	0.79
30/08 – 29/09	0.84
07/09 – 07/10	0.91
14/09 – 14/10	0.78
21/09 – 21/10	0.75
28/09 – 28/10	0.87

Região

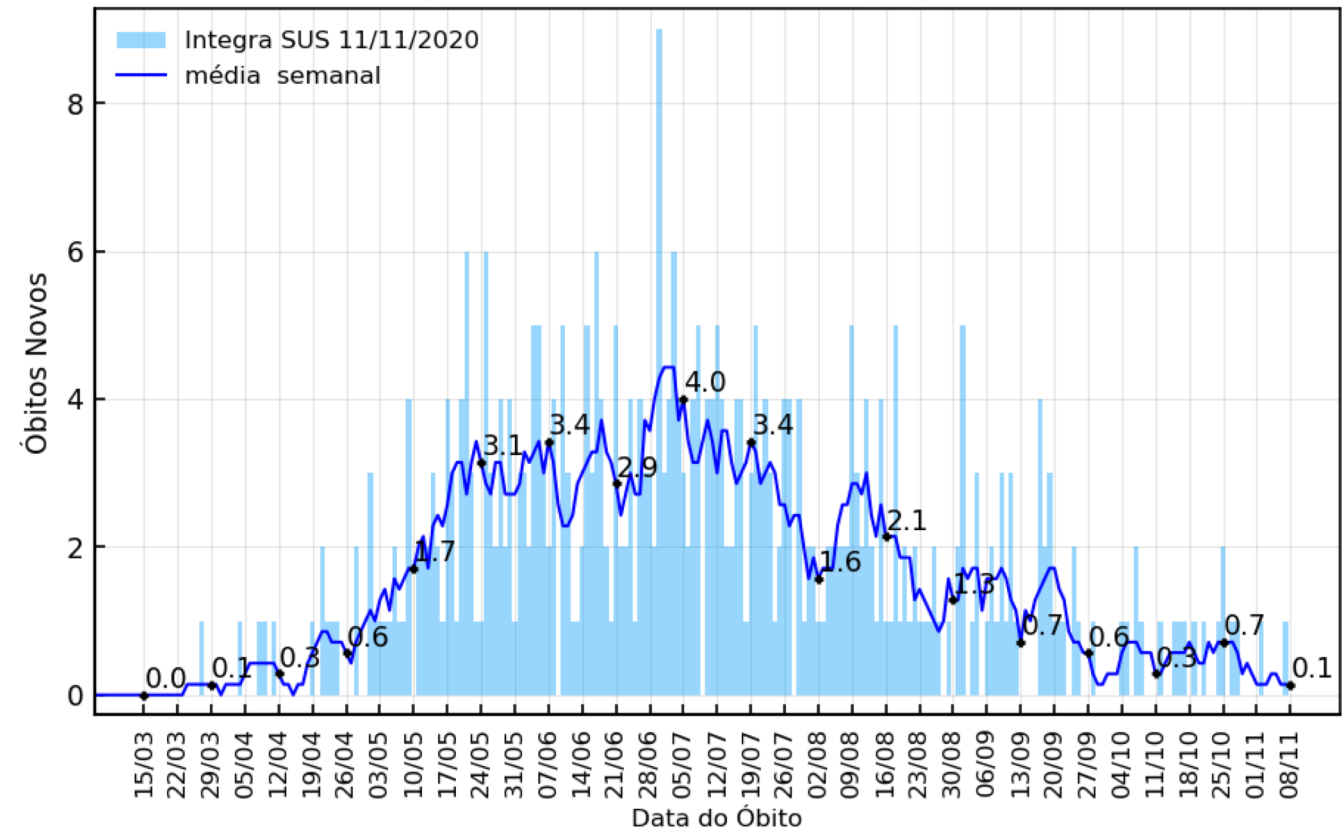
Litoral Leste/Jaguaribe

Dados atualizados em 11/11/2020

Região do Litoral Leste/Jaguaribe

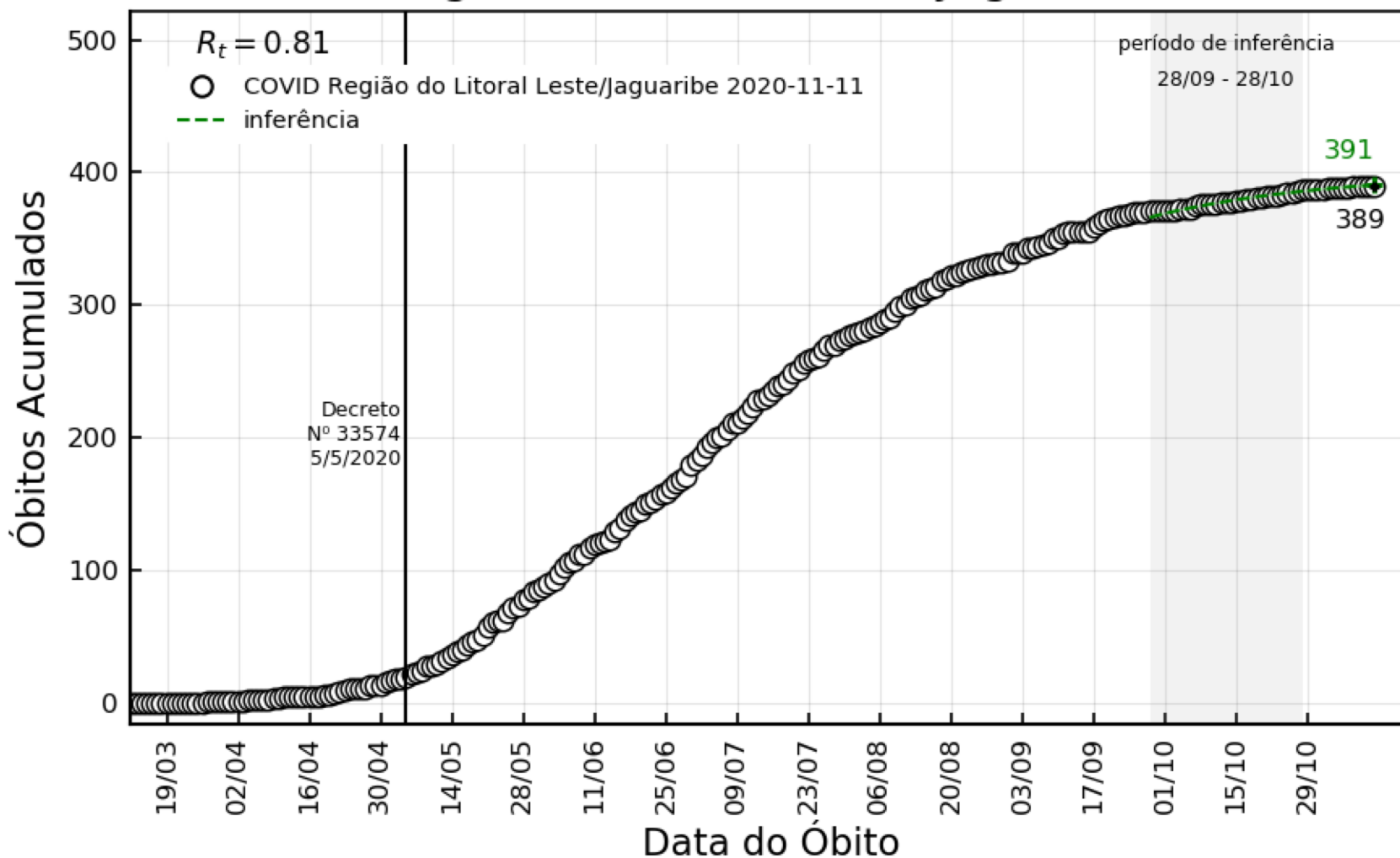


Região do Litoral Leste/Jaguaribe



Dados atualizados em 11/11/2020

Região do Litoral Leste/Jaguaribe



Janela de Inferência	R_t
12/07 – 13/08	0.91
19/07 – 20/08	0.99
29/07 – 31/08	0.90
05/08 – 07/09	0.81
16/08 – 15/09	0.80
23/08 – 21/09	0.85
30/08 – 29/09	0.86
07/09 – 07/10	0.82
14/09 – 14/10	0.86
21/09 – 21/10	0.92
28/09 – 28/10	0.81