

# Coronavirus epidemic 2020

23/06/23

Logarithm of the number of cases (blue dots) and daily cases (gray circles).  
The straight lines are the linear fits and they are used to identify exponential growth.

	$m$	$T$
China	0.4053	1.7
Italy	0.2274	3.0
Mexico	0.2577	2.7
USA	0.3145	2.2
Lietuva	0.3240	2.1

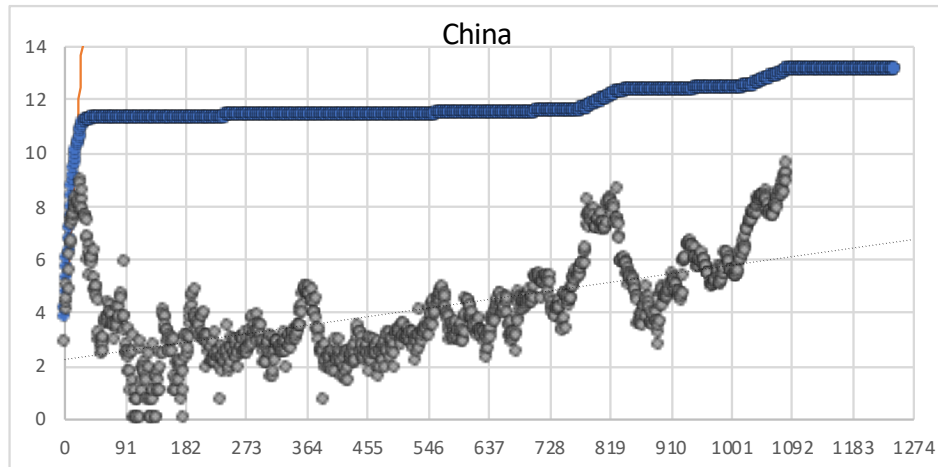
$m$  is the slope of the logarithmic fit.

$T$  is the estimated to time to double the number of cases.

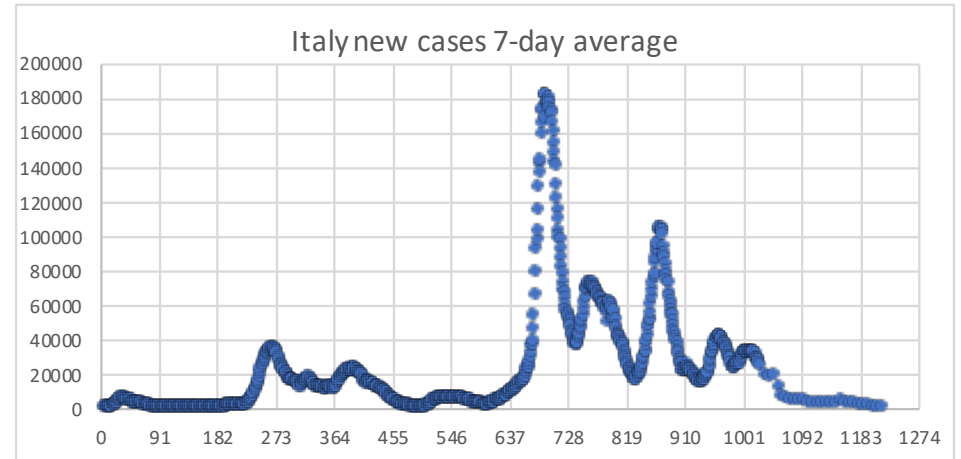
The day numbering starts on the date written for every country.

Information from Wikipedia web site.

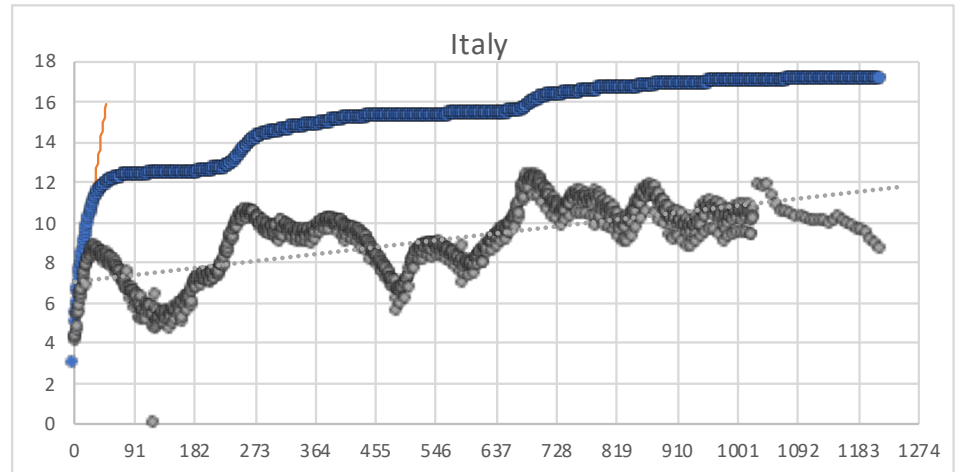
2020.01.16	43845	$m$	$T$
China	0.4053	1.7	



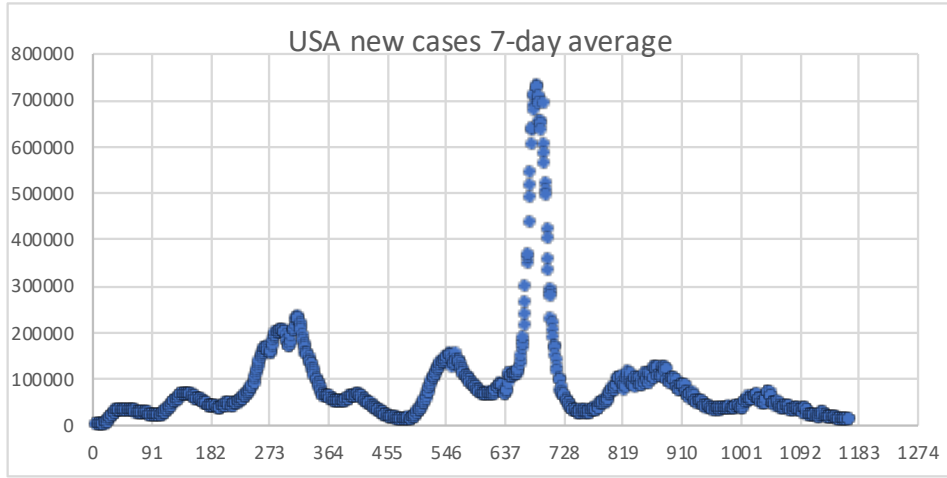
$m$	0.40530234	0.4053
$b$	33.732886	3.5185
$r^2$		0.9957
$t_1$		-8.7
$T$		1.7
		31.3
$max$	14171	06/01/23



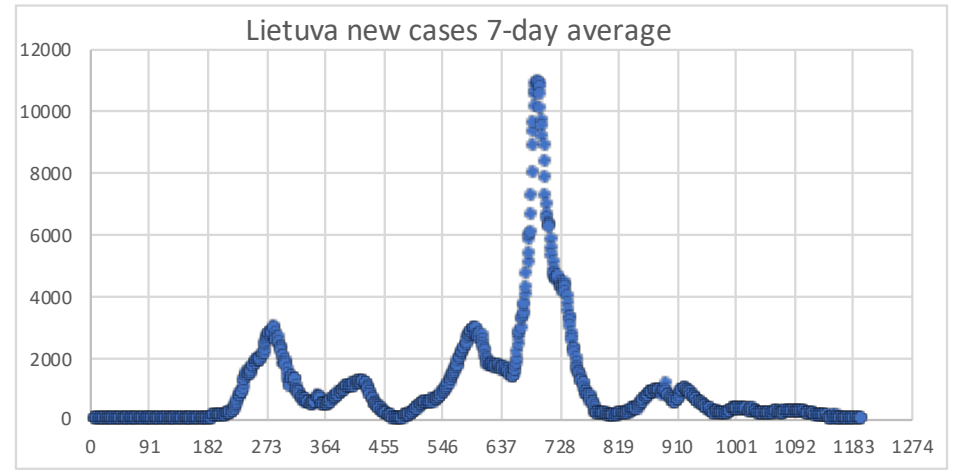
2020.02.21	43881	$m$	$T$
Italy	0.2274	3.0	



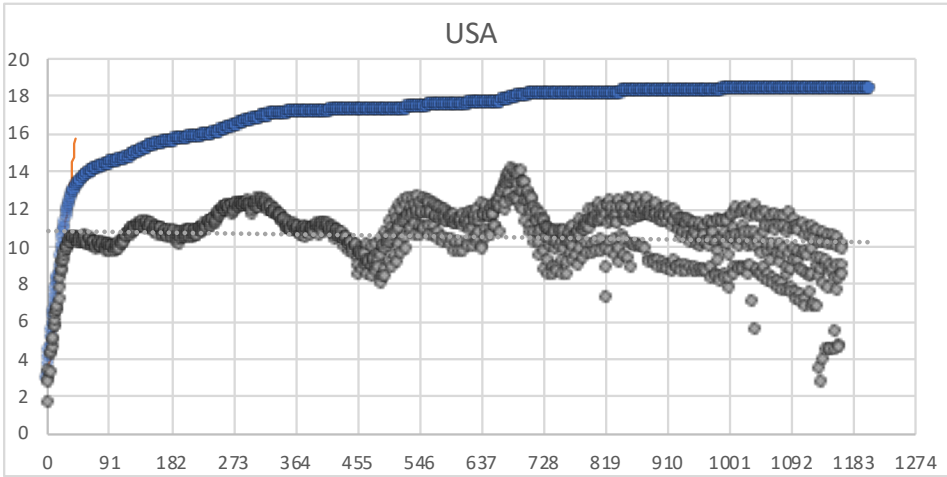
$m$	0.22735729	0.2274	224
$b$	147.365519	4.9929	11.5525
$r^2$		0.9889	0.9977
$t_1$		-22.0	-2332.7
$T$		3.0	140.0
		7.9	1.1
$max$	228123	17/01/22	



2020.02.28      43888       $m$        $T$   
**USA**                      0.3145      2.2

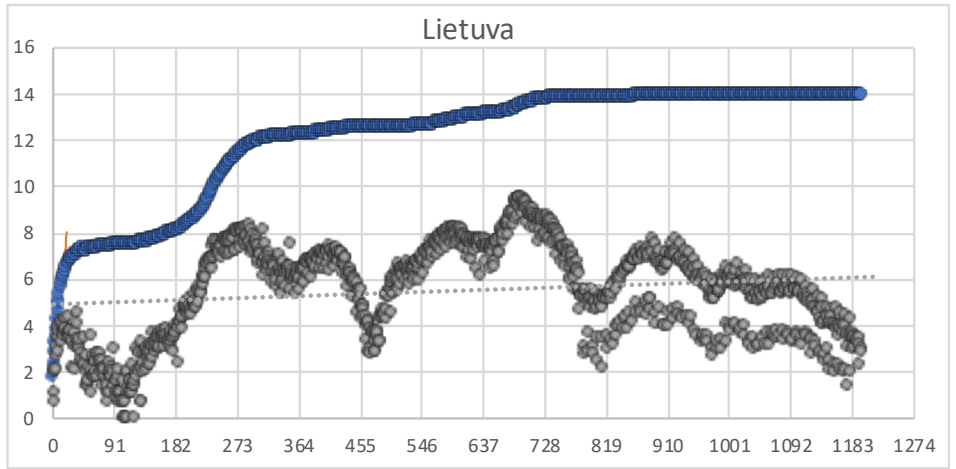


2020.03.13      43902       $m$        $T$   
**Lietuva**                      0.3240      2.1



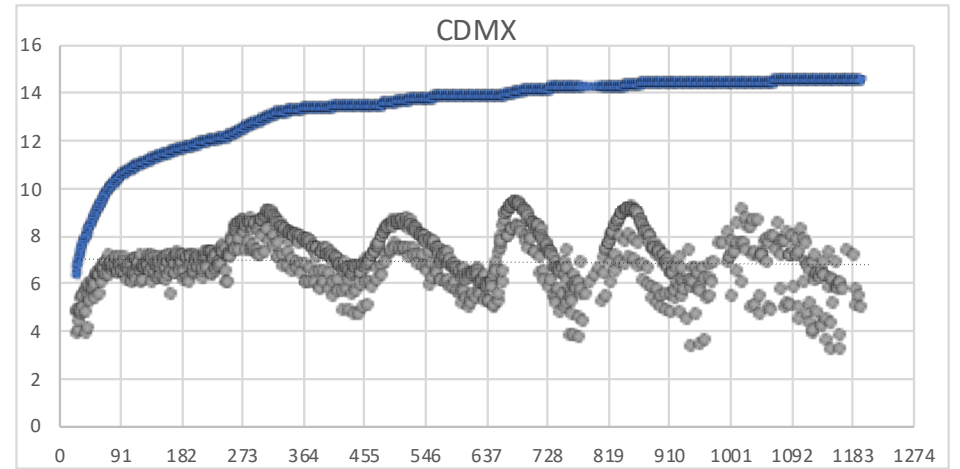
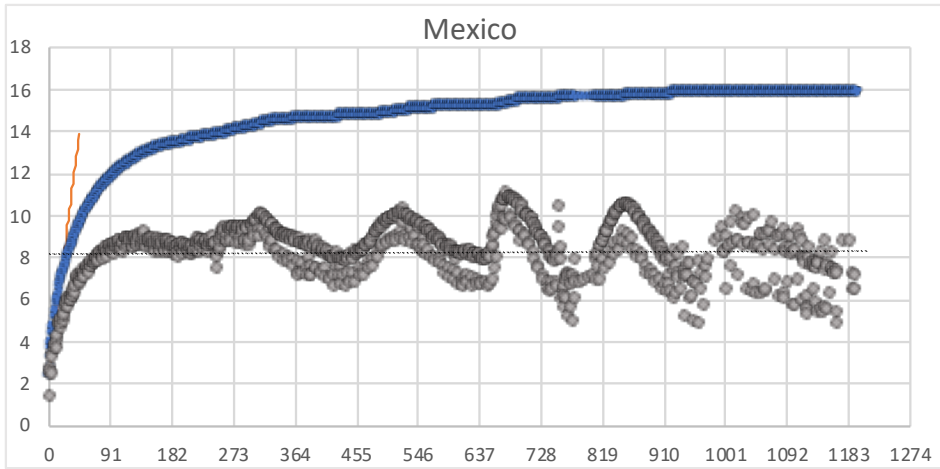
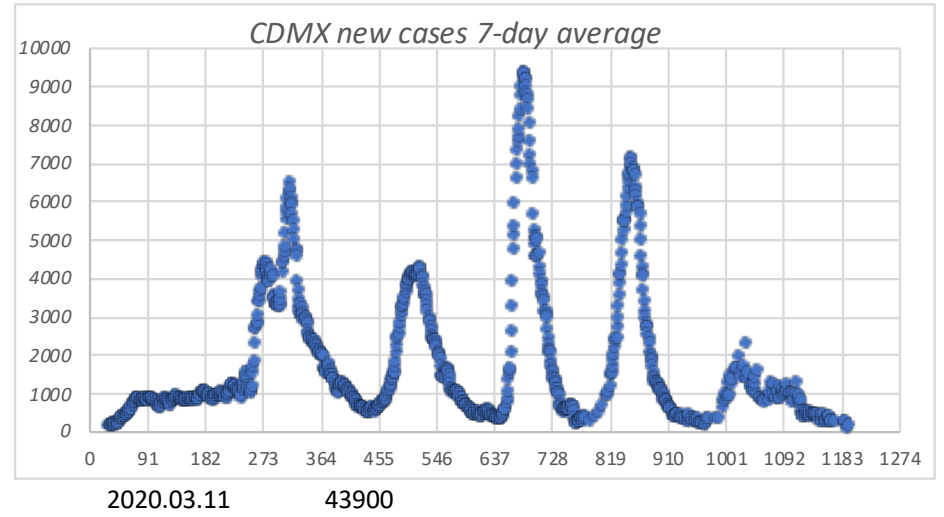
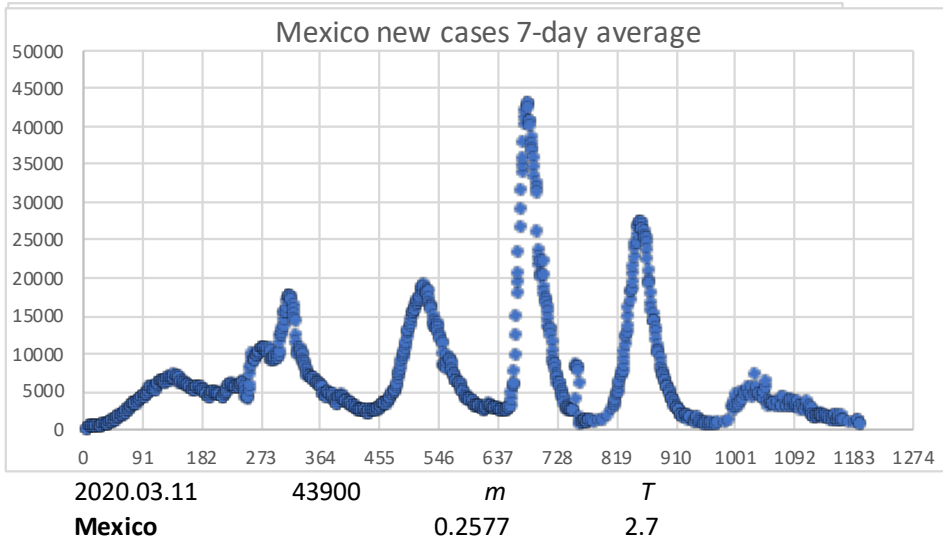
USA

			180
$m$	0.3144947	0.3145	0.0161
$b$	17.4489164	2.8593	12.8276
$r^2$		0.9963	0.9979
$t_1$		-9.1	-797.4
$T$		2.2	43.1
		15.8	1.2
$max$	1231770	10/01/22	



Lietuva

$m$	0.3239675	0.3240
$b$	4.75683522	1.5596
$r^2$		0.9936
$t_1$		-4.8
$T$		2.1
		17.0
$max$	12968	05/02/22



			252	
$m$	0.2577	0.2577	0.0084	$m$
$b$	2.5533	12.8496	11.6951	$b$
$r2$	0.9663		0.9981	$r2$
$t1$	-9.9		-1388.9	$t1$
$T$	2.7		82.3	$T$
	10.1		1.1	
$max$	60552	19/01/22	last	

			14	
$m$	0.0139	0.0139	0.1007	
$b$	8.5741	5292.7	3.8111	
$r2$	0.9919		0.9955	
$t1$	-618.6		-37.8	
$T$	50.0		6.9	
	1.1		2.6	
$max$	12064	20/01/22	CDMX	