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Comment: Probably A Good News: Covid-19 Is Not Spreading Fast In Tropical Region Like In Temperate Region

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**COMMENT: PROBABLY A GOOD NEWS: COVID-19 IS NOT SPREADING FAST
 IN TROPICAL REGION LIKE IN TEMPERATE REGION**

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My understanding of Covid-19 is that, there are some climatic factors involved in seed spread of this virus. As it started from the area of China which falls under temperate zone, its second victim was Iran's city Qom which also falls under temperate zone and third is Italy which is completely in temperate zone.

Table 1 compares data from two countries from Temperate zone and three countries from Tropical zone. The days counted from the 100 cases each country reached as day one and further days studied on equal basis.

Table 1. Comparison of data of two countries from temperate zone and three countries from tropical zone regarding the counting of 100 cases from Day 1 that each country reached.

Days	Pakistan		Italy		Iran		Thailand		Malaysia	
	Cases	% Rise	Cases	% Rise	Cases	% Rise	Cases	% Rise	Cases	% Rise
	100+		100+		100+		100+			
1	187		150	90	139	46	114	39	118	19
2	241	29	229	53	245	76	147	29	130	10
3	302	25	322	41	388	58	177	20	149	15
4	461	53	445	38	593	53	212	20	158	6
5	495	7	650	63	978	65	272	28	200	27
6	646	30	888	37	1501	53	322	18	242	21
7	784	21	1128	27	2336	56	411	28	428	77
8	887	5.1	1694	50	2922	25	599	46	553	29
9	991	12	2036	20	3513	20	721	20	673	22
10	1057	7	2502	23	4747	35	827	15	790	17
11	1197	12	3089	23	5823	22	934	13	900	14
12	1408	18	3858	25	6566	12	1045	12	1030	14
13	1526	8	4636	20	7161	9	1136	9	1183	15
14	1625	6	5883	26	8042	12	1245	9	1306	10
15	1865	15	7375	25	9000	11	1388	11	1518	16
16			9172	24	10075	12	1524	10	1624	7
17			10149	9	11364	13	1651	8	1796	11
18			12462	22	12729	12			2031	13
current	1865		101739		44606		1651		2766	
Per day rise %		17%		34.2		32.7%		18.82%		18.11%

It is quite clear that in temperate countries where situation got worse, the figure jumped from 100-1000 in 5-6 days. However, in tropical countries this figure was touched within 10-12 days. Similarly, the average percent increase remained

below 20% in tropical region, however, it was more than 30% in temperate region. If we see the Pakistan's area that is touching temperate zone, the spread of the virus is from less than 10 imported cases to hundred plus. Similarly, in rest of Pakistan

the number of imported cases were fewer but raised abruptly when government could not manage them in proper isolation as people were kept in groups of 100s in the name of quarantine where the number

of infected cases increased abruptly. Even then Pakistan is getting advantage of being in tropical zone and the spread is not too fast (Figure 1).

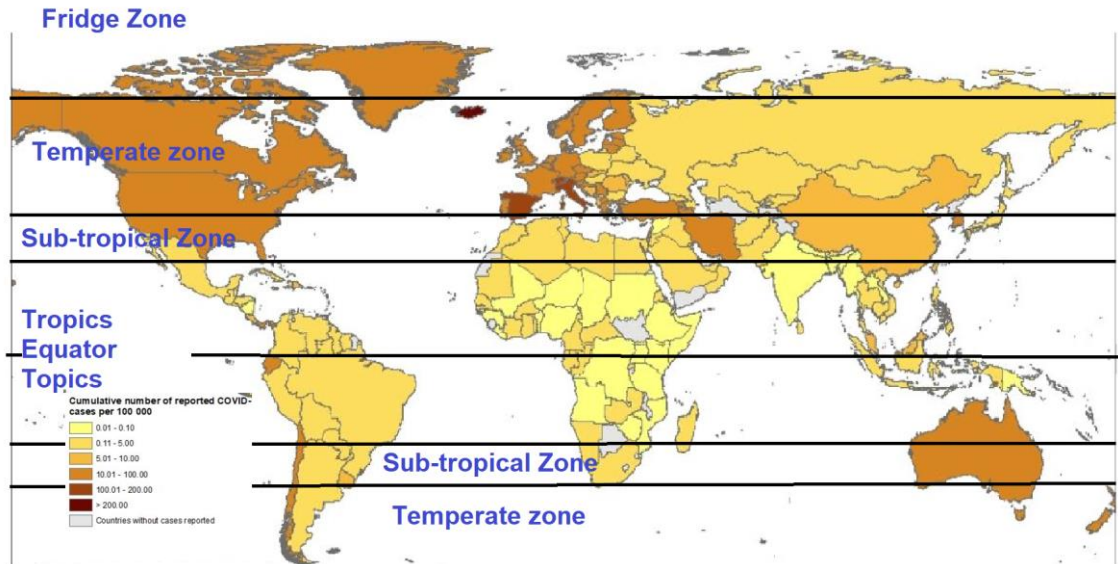


Figure 1. Cumulative number of Covid-19 cases from different countries in different ecological zones

Further few weeks will determine the fate of countries in tropical region. Still it appears like Malaysia, which is showing worst spread in tropical countries but still the situation is yet not like that of countries in temperate zone. Europe and America in the northern hemisphere

caught worst from this as they are in temperate zone. A little similarity of this virus is with SARS-CoV-2 during 2002-2003, when it started in November and ended in July mostly in temperate zone again (Figure 2).

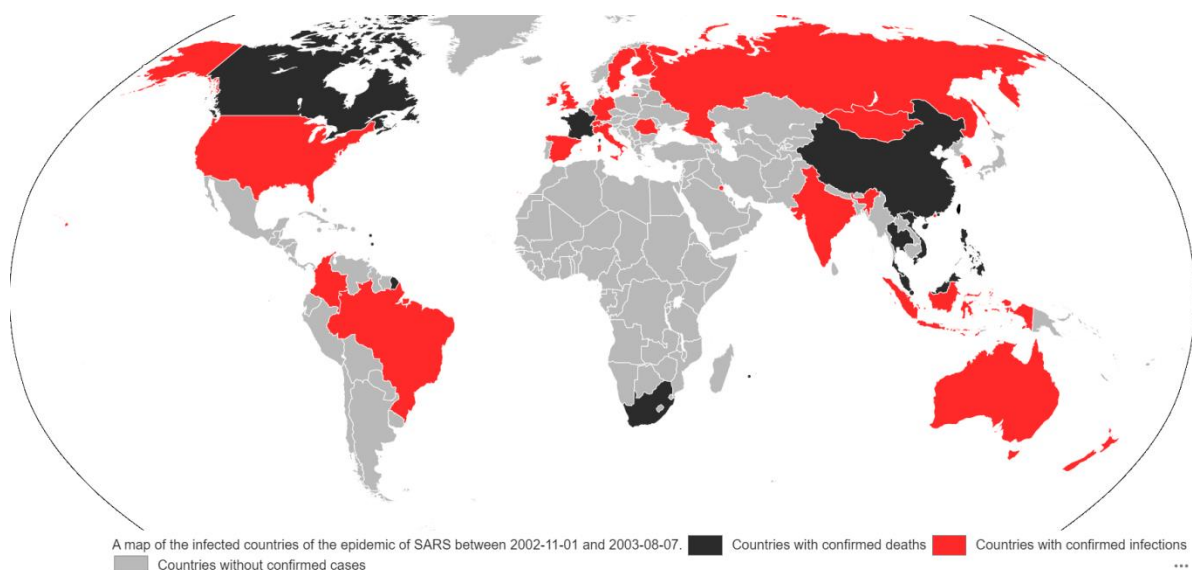


Figure 2. A map of the infected countries of the epidemic of SARS between 2002-11-01 and 2003-08-07.