Supplementary Section

List of Figures

Fig. S1. Same as Fig.9 (a,b,c) respectively, but instead of 'Death', it is reported 'Cases' per million. In c) Maldives and Singapore are shown as outliers (upper bound skipped) and those two are omitted in b).

Fig. S2. Spatial and Temporal distribution of COVID-19 deaths in Canada till 2/5/20. a) Regional distribution of reported death (Canada.ca 2020). b) The actual number of deaths reported in each day suggests a rising pattern (Wikipedia 2020b).
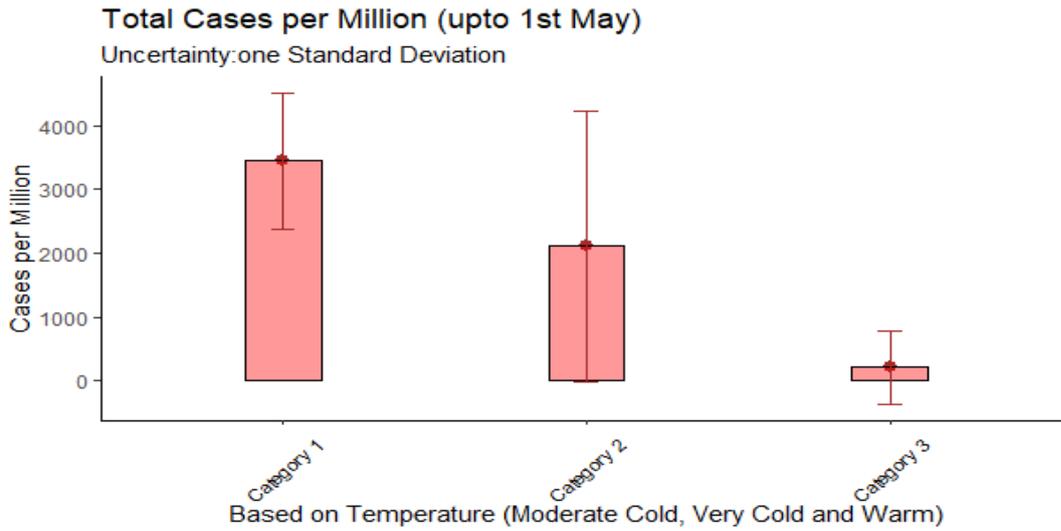
Fig. S3. Mean Air temperature in March (Top) and April (Bottom) for Europe in NCEP/NCAR Reanalyses

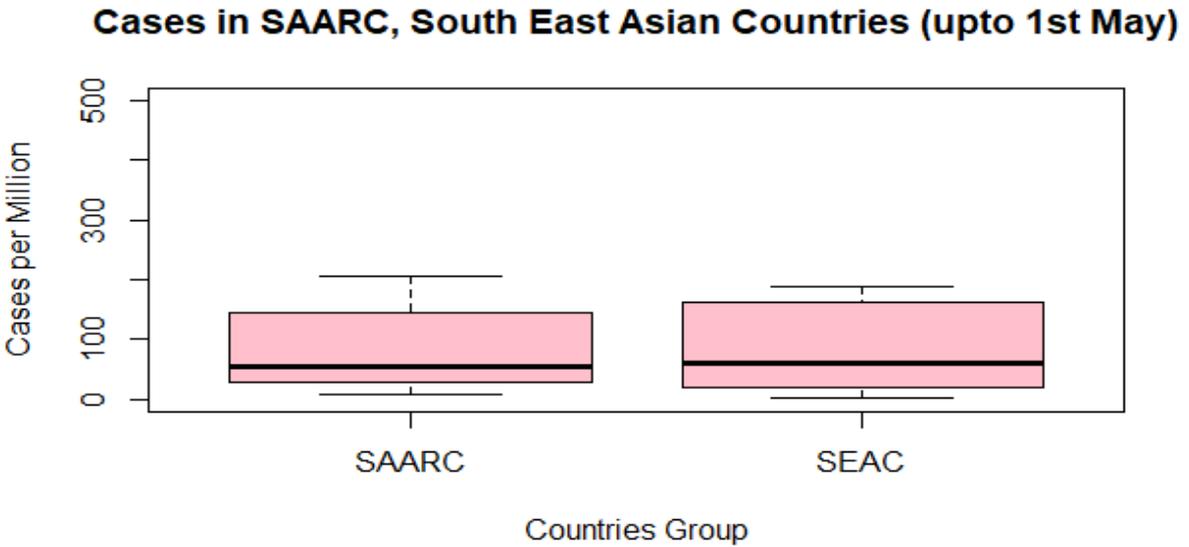**Fig. S4.** Mean Air temperature in March (Top) and April (Bottom) for Africa in NCEP/NCAR Reanalyses

Fig. S5. Mean Air temperature in March (Top) and April (Bottom) for South America in NCEP/NCAR Reanalyses.

Fig. S6. Daily death counts of three very high populated countries: a) USA (Wikipedia 2020c), Brazil (Wikipedia 2020d) and India (Wikipedia 2020e) upto 1st May 2020; b) USA (Worldometers 2020c), Brazil (Worldometers 2020d) and India (Worldometers 2020e) upto 11th August, 2020. In a), the USA showed very high range (maximum 2624), Brazil moderate (maximum 474) and India low (maximum 77). Note three different ranges of Y axis of three countries. In b), apart from Daily Deaths, 3 day moving average and 7 day moving average is also marked by different colours. Peaks and troughs, which arise in 3-day average plot mainly due to weekend (less) reporting issues is eliminated in 7-day average plot. Moreover, 7-day average plot also smoothed out sudden spikes which usually arises due to rectification of past reporting (as seen for India). The 7-day average showed the maximum count for India was the lowest; USA the highest, followed by Brazil.
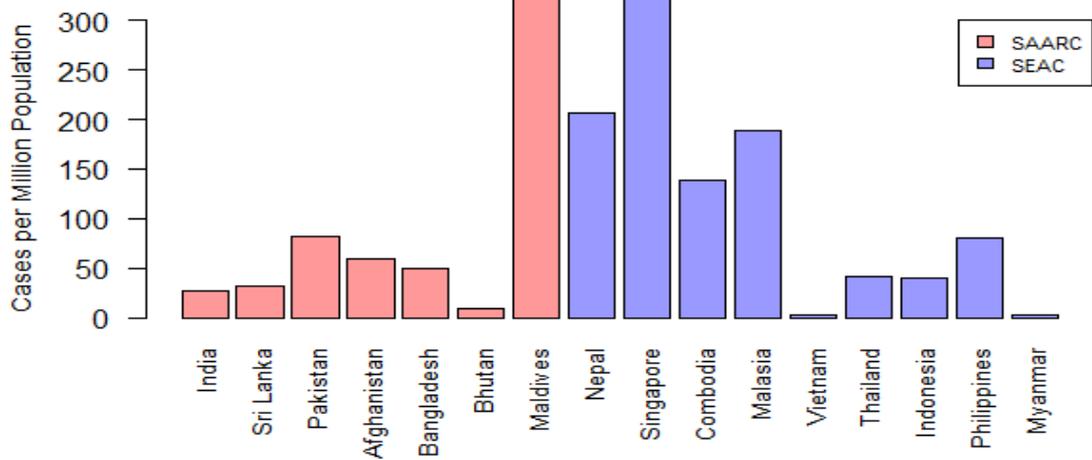
a)

Total Cases per Million (upto 1st May)
Uncertainty:one Standard Deviation

Based on Temperature (Moderate Cold, Very Cold and Warm)

b)

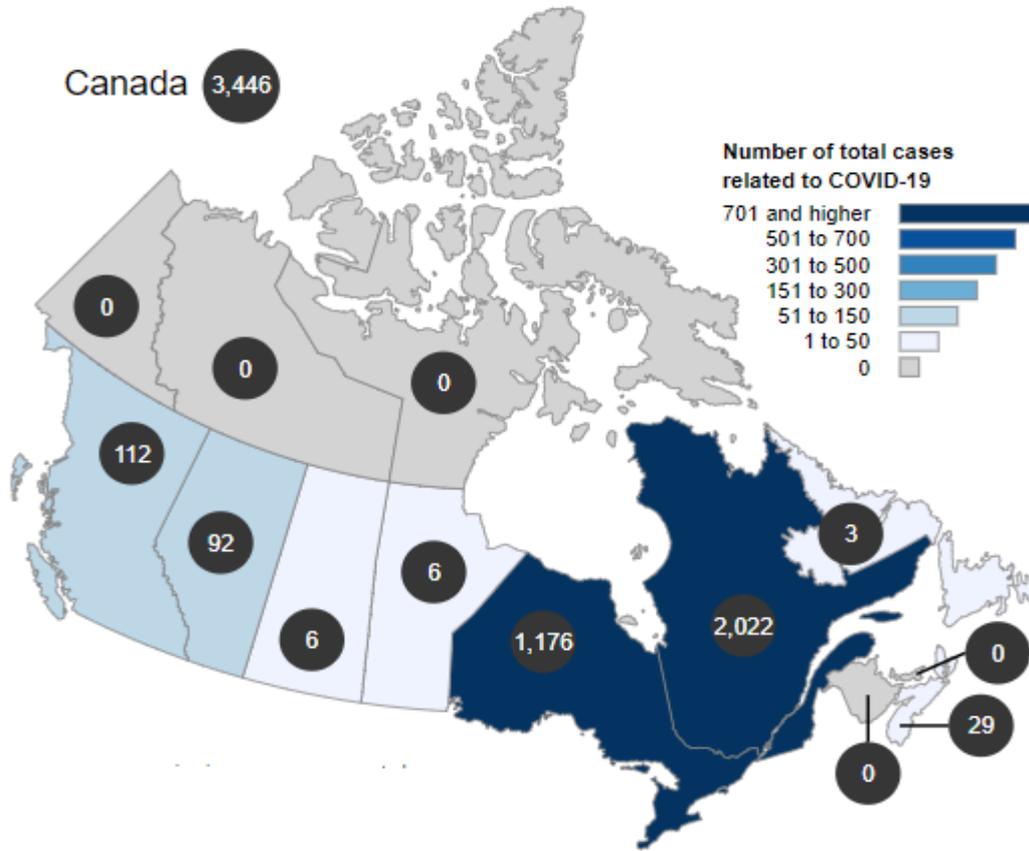**Cases in SAARC, South East Asian Countries (upto 1st May)**
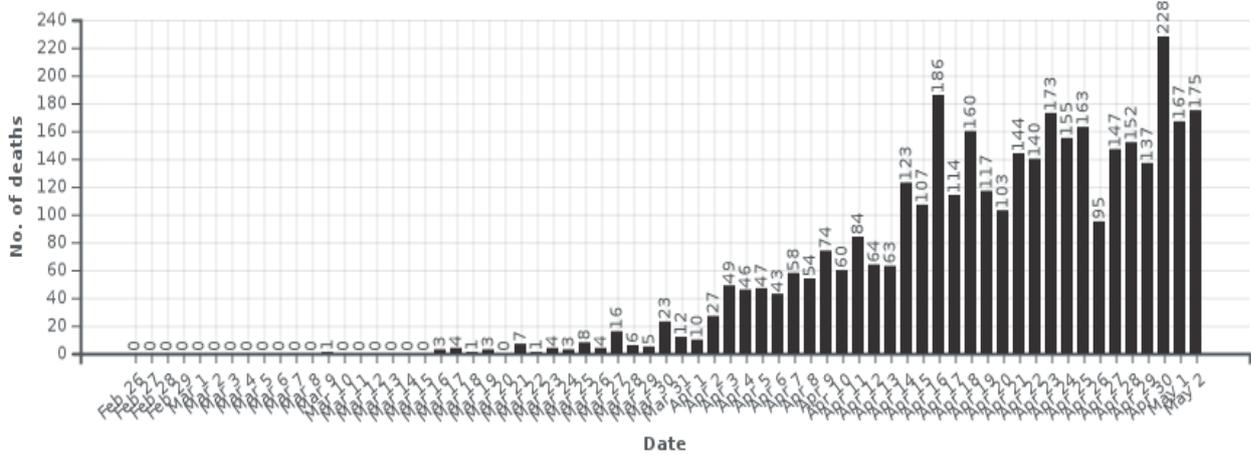

Countries Group

c)

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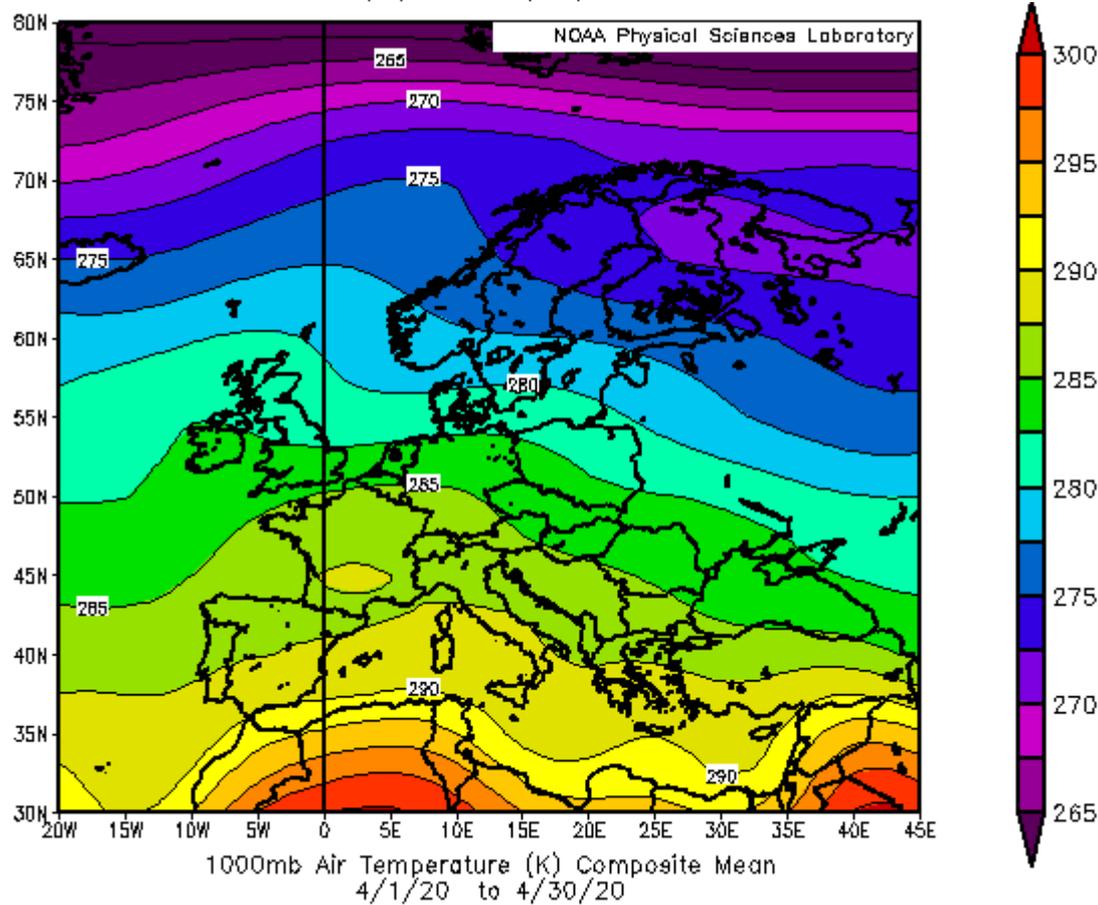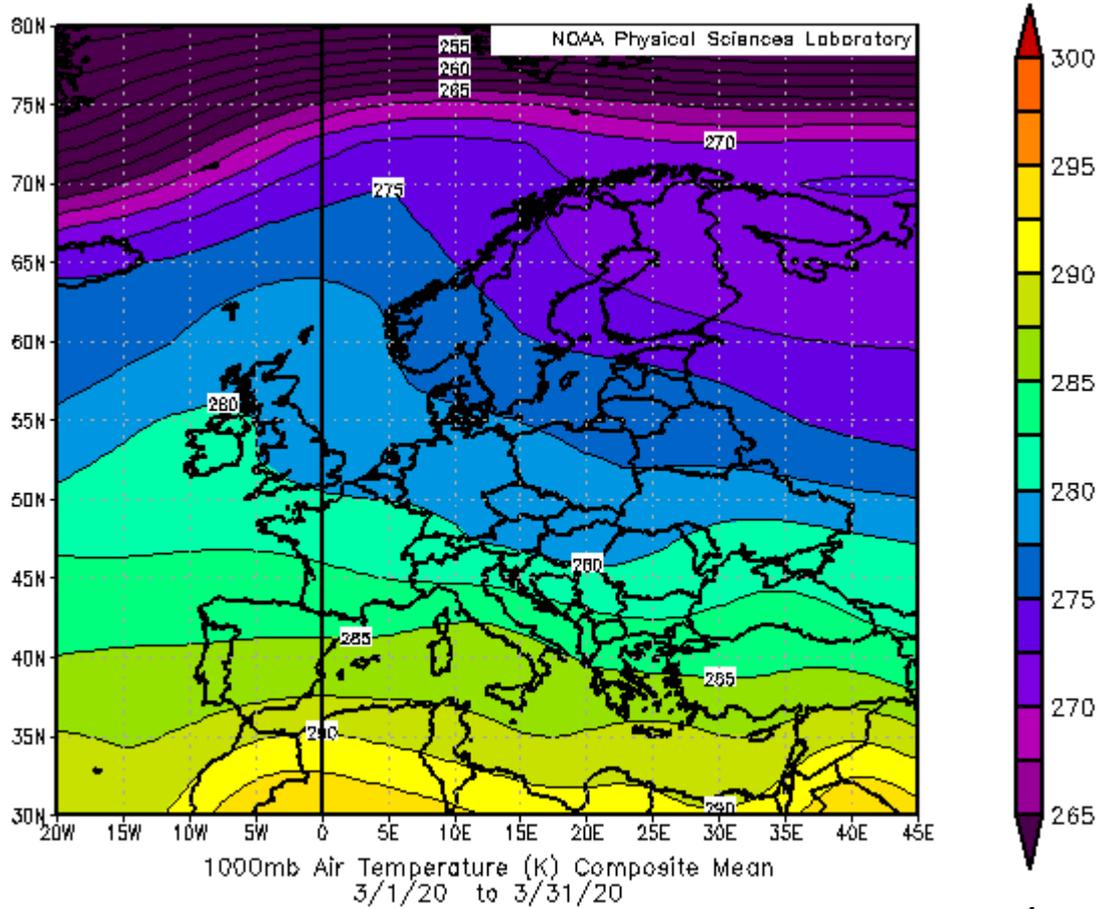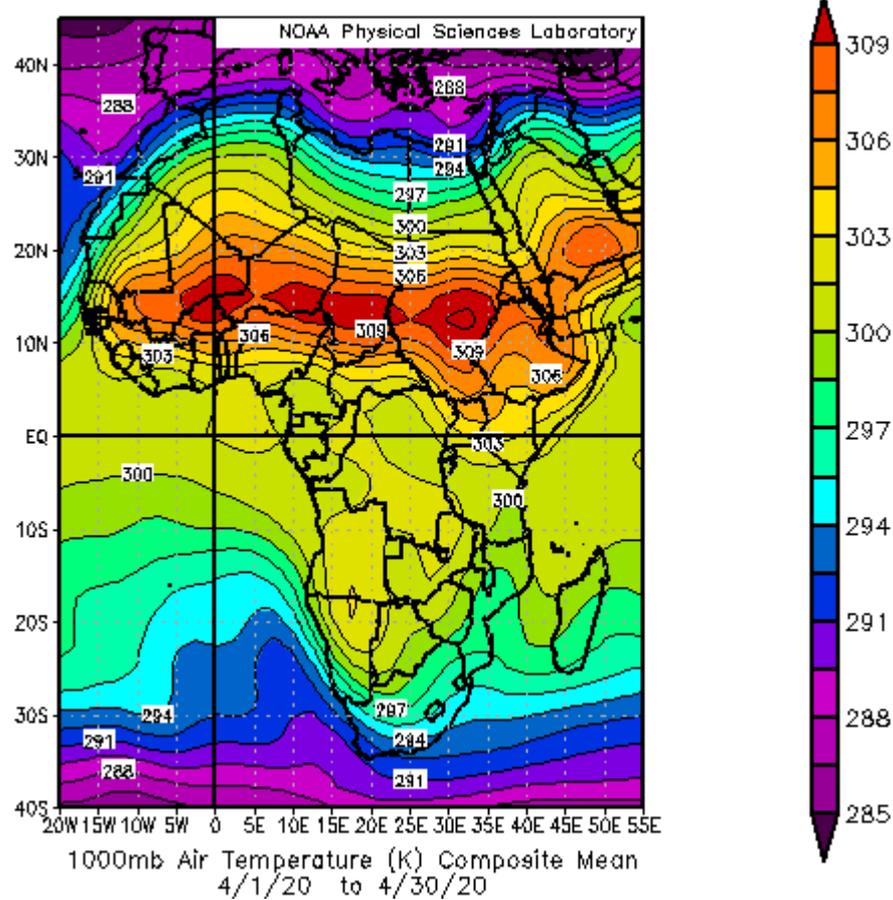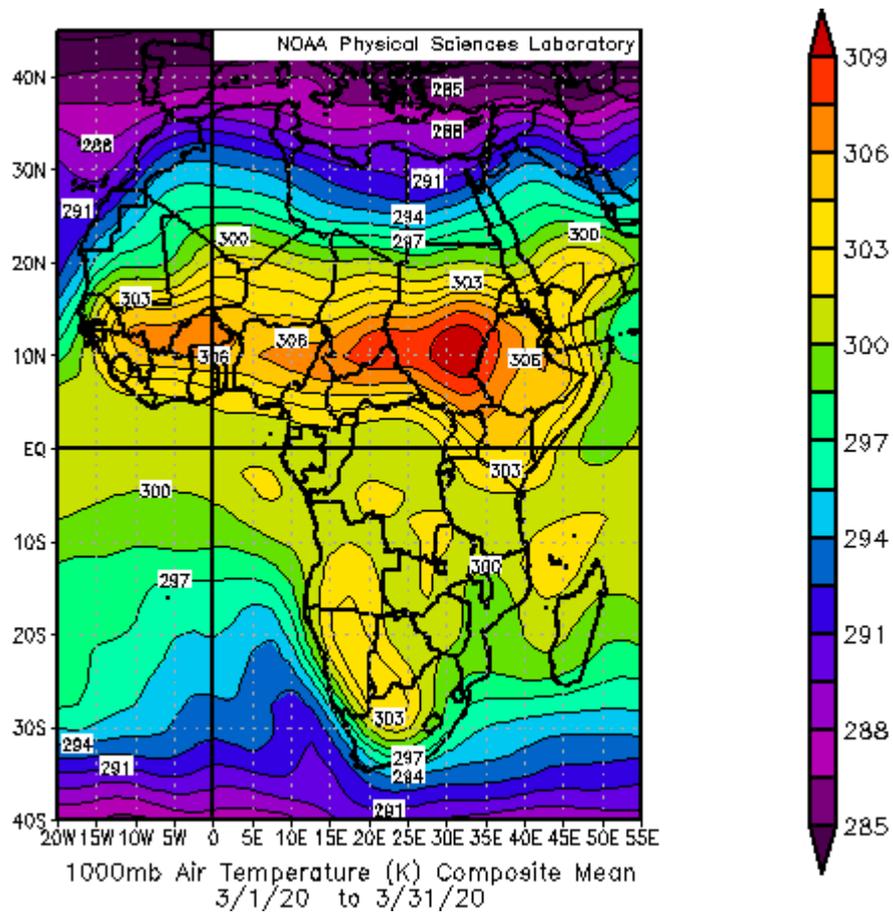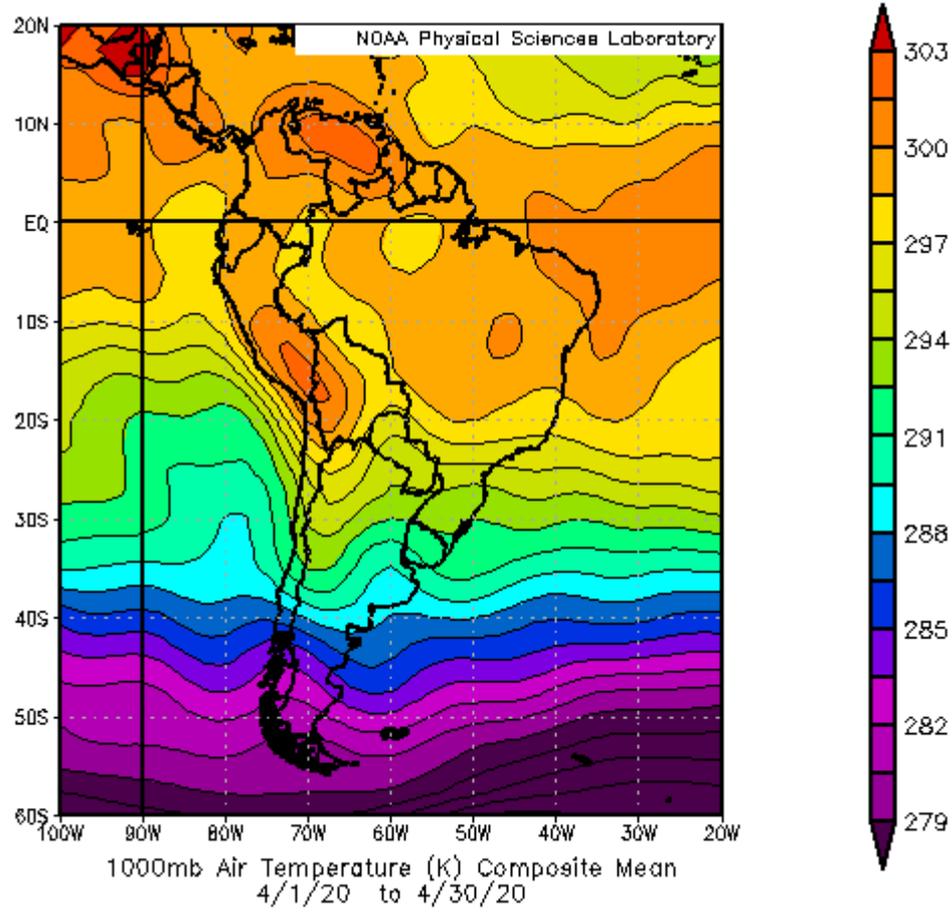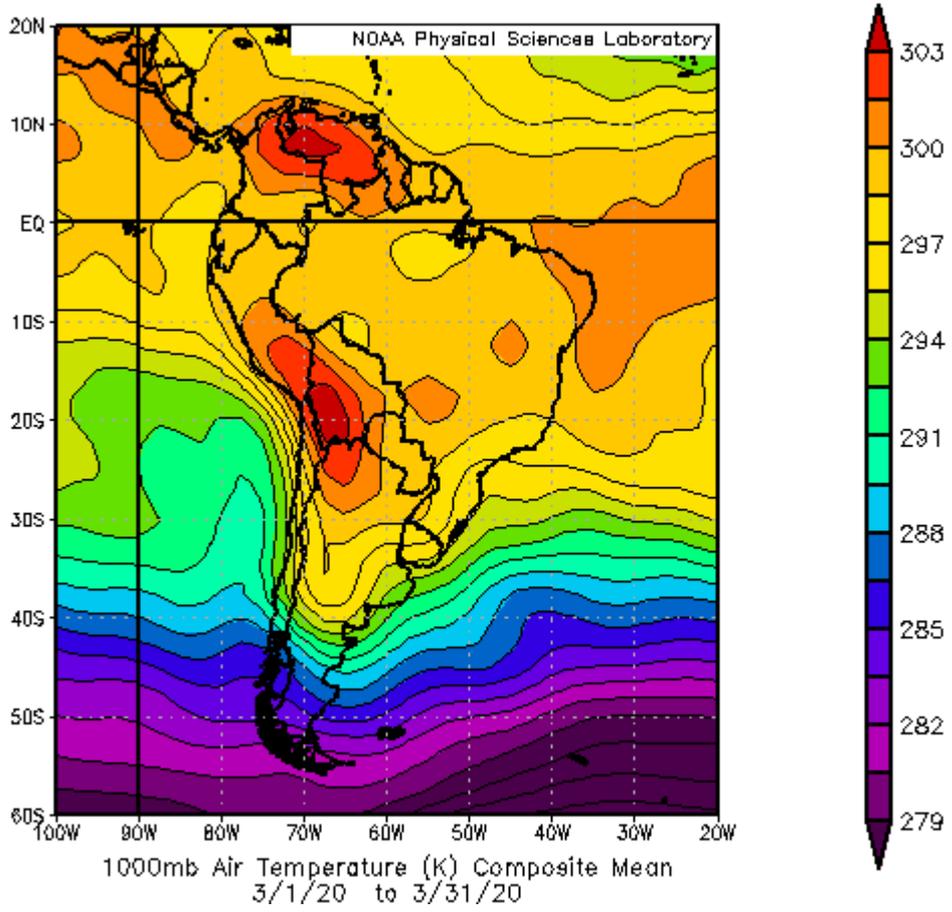
a)

b)

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1000mb Air Temperature (K) Composite Mean
3/1/20 to 3/31/20

1000mb Air Temperature (K) Composite Mean
4/1/20 to 4/30/20

Fig. S3. Mean Air temperature in March (Top) and April (Bottom) for Europe in

NCEP/NCAR Reanalyses

1000mb Air Temperature (K) Composite Mean
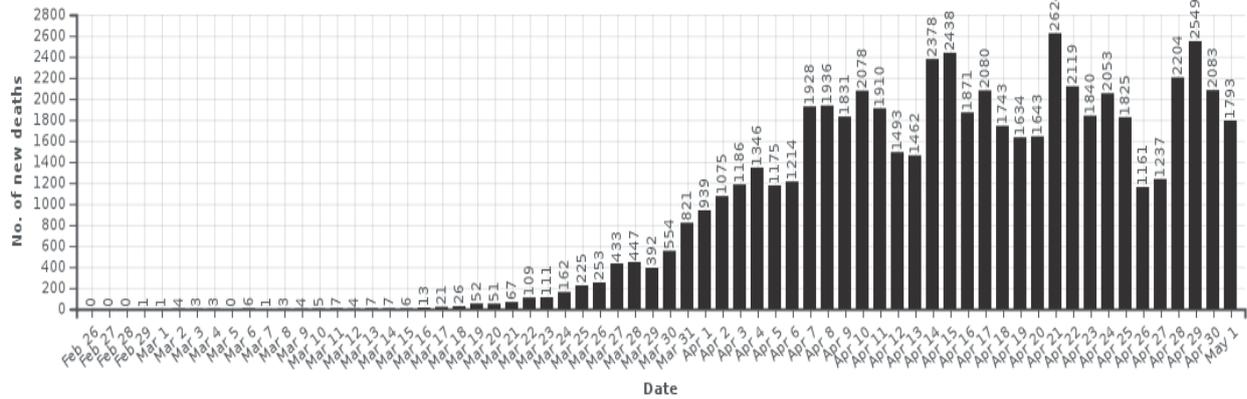3/1/20 to 3/31/20

1000mb Air Temperature (K) Composite Mean
4/1/20 to 4/30/20

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1000mb Air Temperature (K) Composite Mean
3/1/20 to 3/31/20

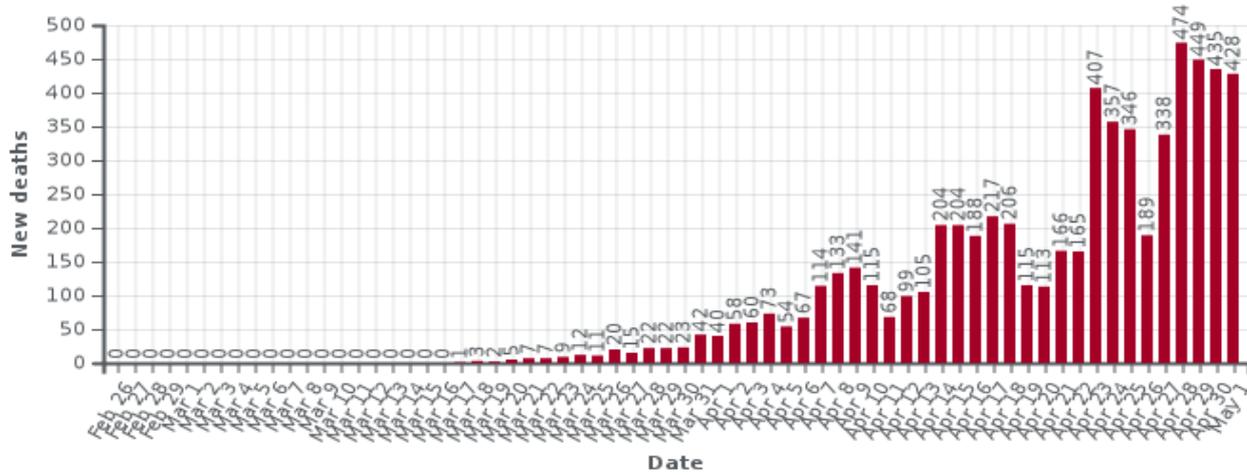1000mb Air Temperature (K) Composite Mean
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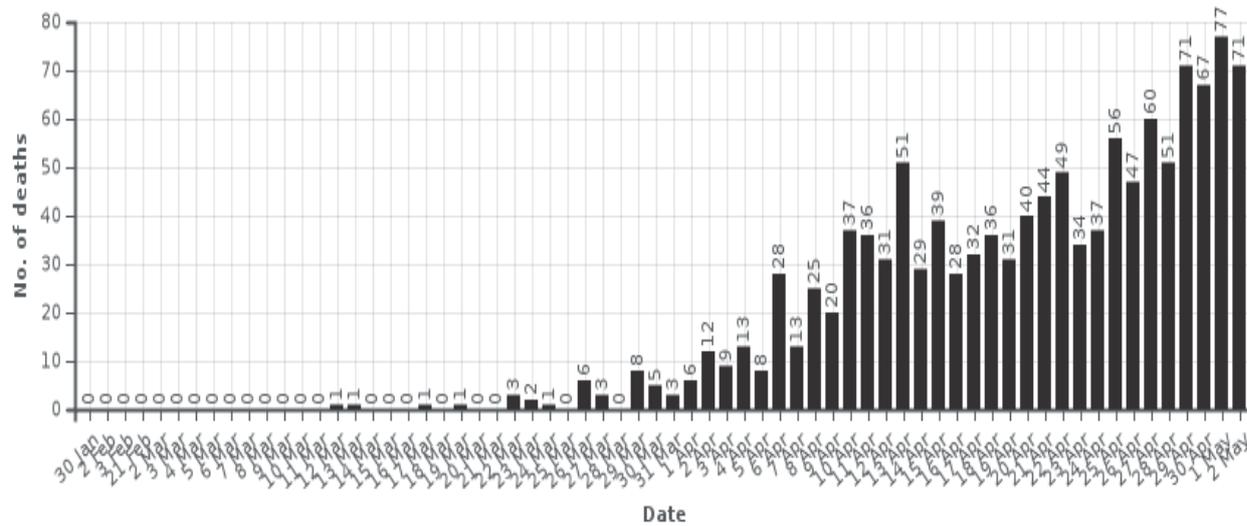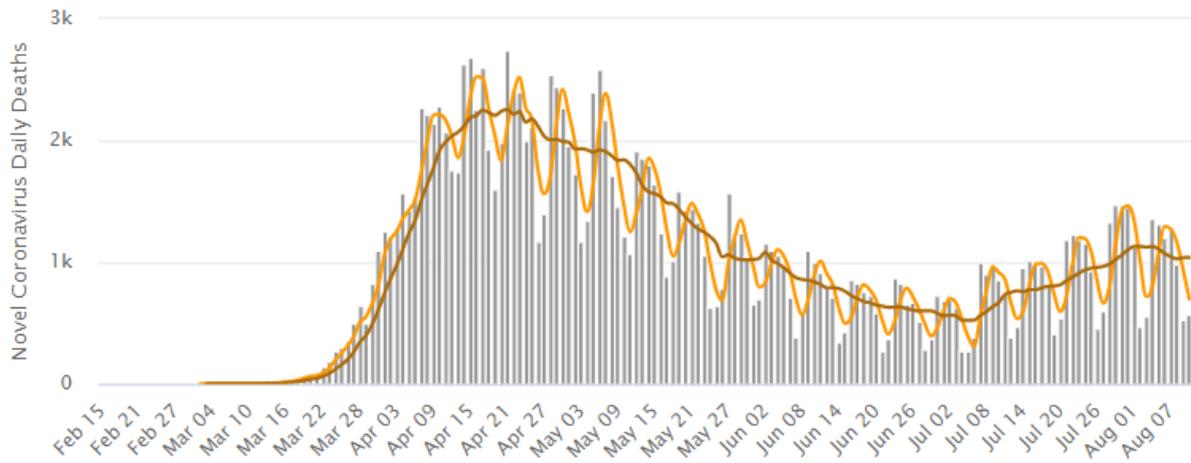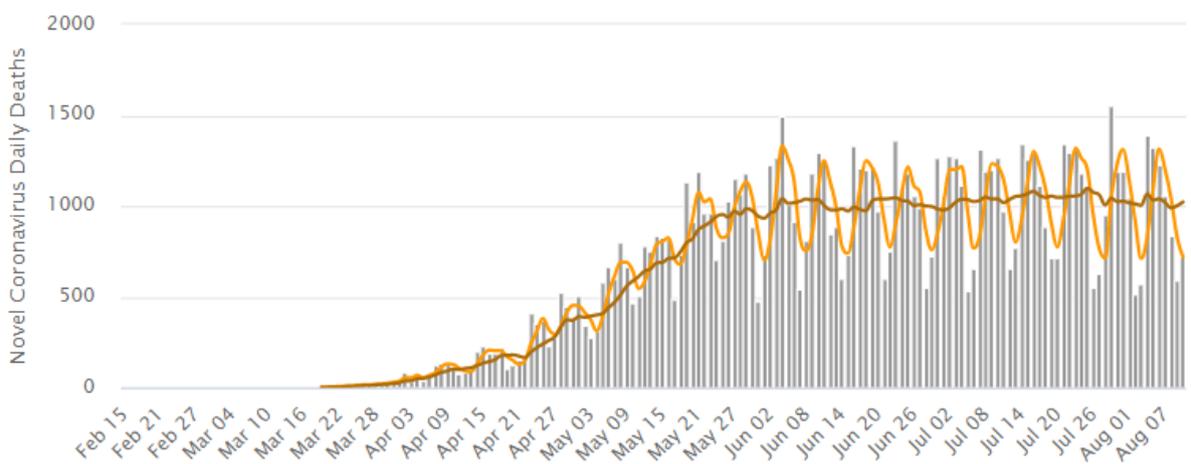
a) **(Daily Death Counts till 1st May)**

USA

Brazil

India

b (Daily Death Counts till 11th August)

USA

Brazil

India

● Daily Deaths ◆— 3-day moving average ◆— 7-day moving average
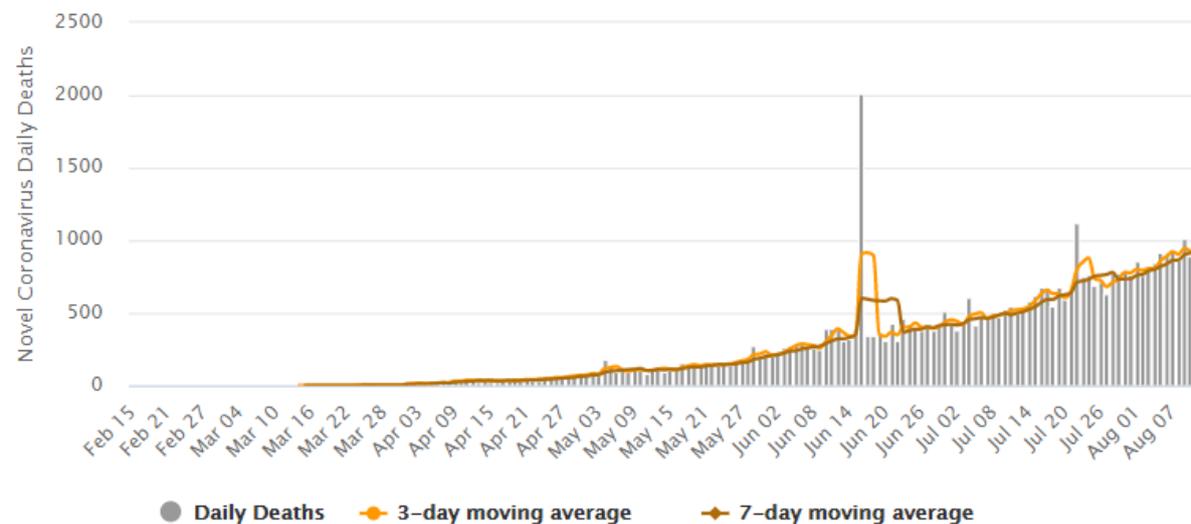
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Fig. S6. Daily death counts of three very high populated countries: a) USA (Wikipedia 2020c), Brazil (Wikipedia 2020d) and India (Wikipedia 2020e) upto 1st May 2020; b) USA (Worldometers 2020c), Brazil (Worldometers 2020d) and India (Worldometers 2020e) upto 11th August, 2020. In a), the USA showed very high range (maximum 2624), Brazil moderate (maximum 474) and India low (maximum 77). Note three different ranges of Y axis of three countries. In b), apart from Daily Deaths, 3 day moving average and 7 day moving average is also marked by different colours. Peaks and troughs, which arise in 3-day average plot mainly due to weekend (less) reporting issues is eliminated in 7-day average plot. Moreover, 7-day average plot also smoothed out sudden spikes which usually arises due to rectification of past reporting (as seen for India). The 7-day average showed the maximum count for India was the lowest; USA the highest, followed by Brazil.