



# DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU

## TEMPERATURE PROJECTIONS FOR COIMBATORE



### 17.1 About Coimbatore

Coimbatore district is one of the largest districts of the State of Tamil Nadu, covering the geographical area of 7469 sq. km. It is located in between 10°10' and 11°30' North latitude and 76°40' and 77°30' East longitude. Coimbatore district is bounded by Kerala State to the west, Erode and Tiruppur district to the east and The Nilgiris district to the north. Its elevation ranges between 440 meters to 286 meters.<sup>1,2,3</sup>

### 17.2 Climate of Coimbatore

The district enjoys a tropical climate. The period from April to June is generally hot and dry. The temperature recorded varies from 11.7°C to 42.6°C. Average temperatures of January is 26 °C, February is 27 °C, March is 29 °C, April is 30 °C and May is 29 °C.<sup>2,3</sup>

### 17.3 Temperature Projections for Coimbatore

The annual maximum and minimum temperature normal (1970-2000) of the district are 32.5 °C and 21.3°C respectively.<sup>4</sup> Projections of maximum temperature over Coimbatore for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of 1.1°C, 2.3°C and 3.3°C respectively. Similarly, the projections of minimum temperature for the same periods shows an increase of 1.1°C, 2.3°C and 3.4°C respectively.

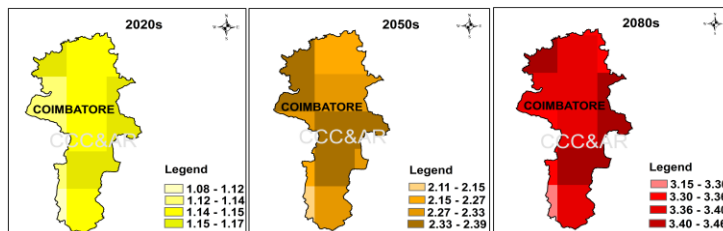


Fig 17.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

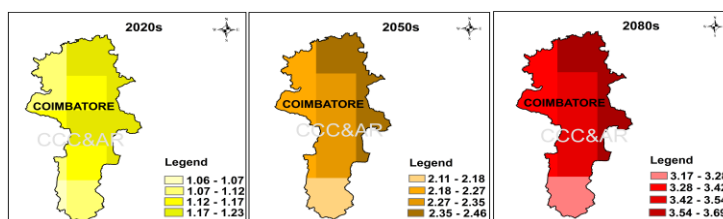


Fig 17.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 17.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.3°C	+3.3°C
Minimum Temperature	+1.1°C	+2.3°C	+3.4°C

### 17.4 Key Findings

The average change of maximum and minimum temperature for Coimbatore district are expected to increase by 3.3°C and 3.4°C respectively by the end of the century.

### 17.5 References

- [http://www.tn.gov.in/district\\_details/538](http://www.tn.gov.in/district_details/538)
- <http://www.onefivenine.com/india/villag/coimbatore>
- Central Ground Water Board 2009. District ground water brochure Coimbatore district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at [cgwb.gov.in/district\\_profile/tamilnadu/coimbatore.pdf](http://cgwb.gov.in/district_profile/tamilnadu/coimbatore.pdf)
- IMD, 2013. Temperature of Coimbatore District. Regional Meteorological Centre, Chennai.