



DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR ERODE



11.1 About Erode

Erode district lies on the extreme north of Tamil Nadu. It is bounded mostly by Karnataka State and also River Palar covers pretty long distance. To the east lies Namakkal and Karur districts. Dindigal district is its immediate neighbour to the south and on the west, it has Coimbatore and Nilgiri districts, as its boundaries. Thus Erode district is essentially a land-locked area having no sea-coast of its own. Erode district situated at between 10° 36' and 11° 58' North latitude and between 76° 49' and 77° 58' East longitude.^{1,2,3}

11.2 Climate of Erode

The district in general is characterised with a scanty rainfall and a dry climate. The district has dry weather throughout the year except during the monsoon season. The hot weather begins early in March, the highest temperature being reached in April and May with temperature of 40°C.^{1,2,3}

11.3 Temperature Projections for Erode

The annual maximum and minimum temperature normal (1970-2000) of Erode district are 31.9°C and 14.4°C respectively.⁴ Projections of maximum temperature over Erode 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, 2.2°C and 3.3°C respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of 1.2°C, 2.5°C and 3.7°C respectively.

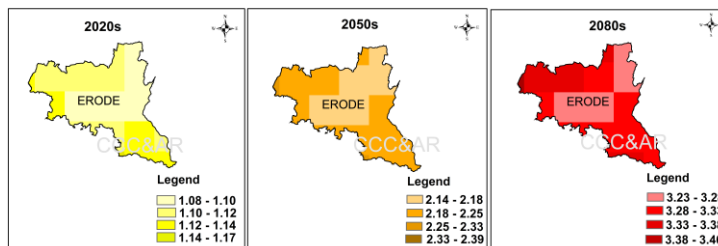


Fig 11.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

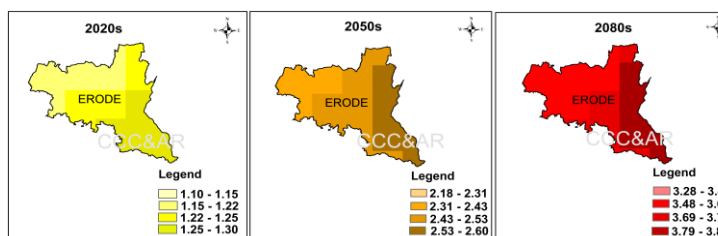


Fig 11.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 11.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.3°C
Minimum Temperature	+1.2°C	+2.5°C	+3.7°C

11.4 Key Findings

The average change of maximum and minimum temperature for Erode district are expected to increase by 3.3°C and 3.7°C respectively by the end of the century.

11.5 References

- <http://www.erode.tn.nic.in/aboutdist.htm>
- http://www.tn.gov.in/district_details/564
- Central Ground Water Board 2008. District groundwater brochure Erode district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at : cgwb.gov.in/District_Profile/TamilNadu/Erode.pdf
- IMD, 2013. Temperature of Erode District. Regional Meterological Centre, Chennai.