



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



## 5.1 About Krishnagiri

It is located between 11° 12' to 12° 49' North latitudes, 77° 27' to 78° 38' East longitudes. Krishnagiri district is bounded by Vellore and Thiruvannamalai districts in the east, Karnataka State in the west, State of Andhra Pradesh in the north and Dharmapuri district in the south. Its area is 5143 sq. km. This district is elevated from 300 m to 1400 m above the mean sea level.<sup>1,2</sup>

## 5.2 Climate of Krishnagiri

The climate of Krishnagiri district is comparatively more pleasant than that of the surrounding districts due to general dryness of atmosphere. Eastern part of the district experiences hot climate and western part has a contrasting cold climate. There is a gradual decrease of both day and night temperatures from June onwards till December. The day temperature increases gradually from January onwards. The lowest temperature is reached in January.<sup>1,2</sup>

## 5.3 Temperature Projections for Krishnagiri

The annual maximum and minimum temperature normal (1970-2000) of the district are 33.4°C and 19.4°C respectively.<sup>3</sup> Projections of maximum temperature over Krishnagiri 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 1.3°C, 2.5°C and 3.8°C respectively.

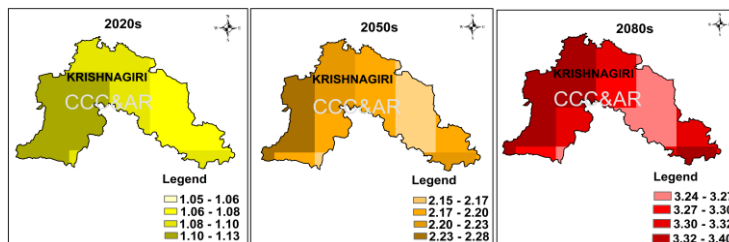


Fig 5.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

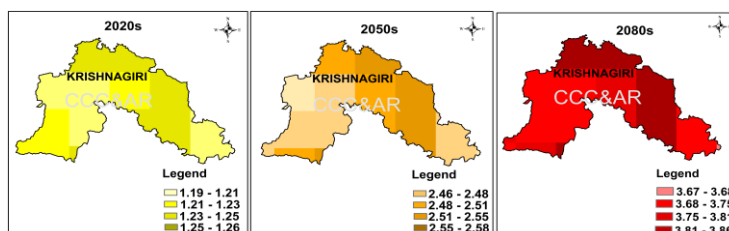


Fig 5.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 5.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.3°C
Minimum Temperature	+1.3°C	+2.5°C	+3.8°C

## 5.4 Key Findings

The average change of maximum and minimum temperature for Krishnagiri district are expected to increase by 3.3°C and 3.8°C respectively by the end of the century.

## 5.5 References

- <http://www.krishnagiri.tn.nic.in/profile.htm>
- Central Ground Water Board 2009. District ground water brochure Krishnagiri district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at [cgwb.gov.in/District\\_Profile/TamilNadu/Krishnagiri.pdf](http://cgwb.gov.in/District_Profile/TamilNadu/Krishnagiri.pdf)
- IMD, 2013. Temperature of Krishnagiri District. Regional Meteorological Centre, Chennai.