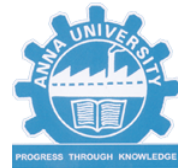




DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR TIRUVANNAMALAI



6.1 About Tiruvannamalai

Tiruvannamalai district came into existence on 30th September 1989 after the bifurcation of the erstwhile North Arcot district. It lies between 11°55' and 13°15' North of latitude and between 78°20' and 79°50' East of longitude, covering an area of 6191 sq. km. The district is bounded on the north and west by Vellore district, on the southwest by Dharmapuri district, on the south by Villupuram district and on the east by Kanchipuram district.^{1,2,3}

6.2 Climate of Tiruvannamalai

The climate of Tiruvannamalai district is tropical. The period from April to June is generally hot. The average maximum and minimum temperatures for district varies from 22°C to 42°C and 16°C to 31°C respectively.^{1,2,3}

6.3 Temperature Projections for Tiruvannamalai

The annual maximum and minimum temperature normal (1970-2000) of Tiruvannamalai district are 33.2°C and 23.5°C respectively.⁴ Projections of maximum temperature over Tiruvannamalai 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**, **2.1°C** and **3.2°C** respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of **1.2°C**, **2.4°C** and **3.7°C** respectively.

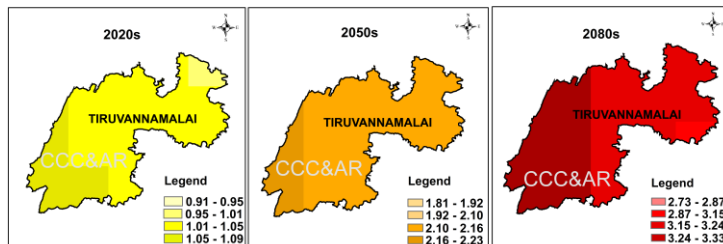


Fig 6.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

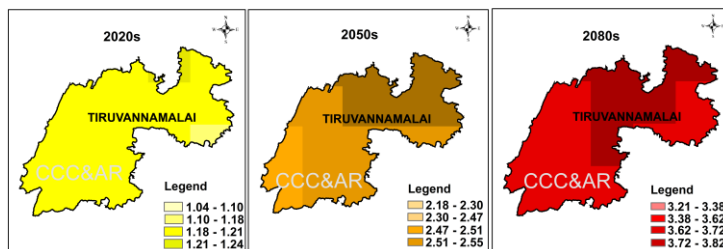


Fig 6.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 6.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.1°C	+3.2°C
Minimum Temperature	+1.2°C	+2.4°C	+3.7°C

6.4 Key Findings

The average change of maximum and minimum temperature for Tiruvannamalai district are expected to increase by **3.2°C** and **3.7°C** respectively by the end of the century.

6.5 References

- <http://www.tiruvannamalai.tn.nic.in/>
- <http://www.tiruvannamalai.tn.nic.in/Splproj/agri.html>
- http://www.twadboard.gov.in/twad/tiruvannamalai_dist.aspx
- IMD, 2013. Temperature of Tiruvannamalai District. Regional Meteorological Centre, Chennai.