



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



27.1 About Sivaganga

The geographical position of Sivaganga district is between 9°32' and 10°18' North latitude and between 78°08' and 79°01' East longitude. It is bounded by Madurai district to the west, Pudukkottai district and Tiruchirappalli district to the north and Ramanathapuram district to the south. Sivaganga district occupies an area of approximately 4189 sq. km. Its in the 95 meters to 106 meters elevation range.^{1,2,3}

27.2 Climate of Sivaganga

The district enjoys a tropical climate. The period from April to June is generally hot and dry. The district's highest day temperature in summer is between 30°C to 36°C .Average temperatures of January is 26°C, February is 27°C, March is 28°C, April is 30°C, May is 32°C.^{2,3}

27.3 Temperature Projections for Sivaganga

The annual maximum and minimum temperature normal (1970-2000) of the district are 33.7°C and 22.8°C respectively.⁴ Projections of maximum temperature over Sivaganga 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 3.1°C respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of 1.2°C, 2.4°C and 3.6°C respectively.

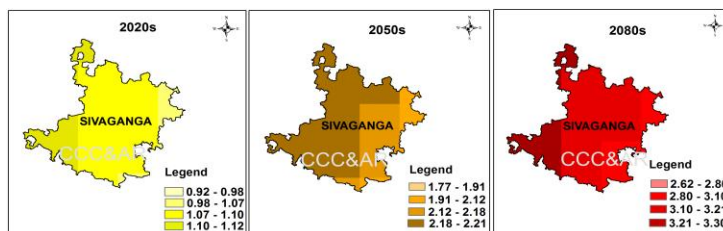


Fig 27.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

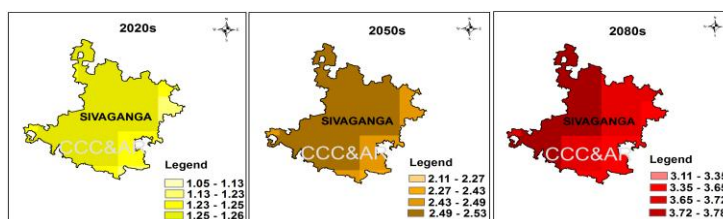


Fig 27.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 27.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.1°C	+3.1°C
Minimum Temperature	+1.2°C	+2.4°C	+3.6°C

27.4 Key Findings

The average change of maximum and minimum temperature for Sivaganga district are expected to increase by 3.1°C and 3.6°C respectively by the end of the century.

27.5 References

1. <http://ecourts.gov.in/sivaganga/history-sivagangai>
2. Central Ground Water Board 2009. District ground water brochure Sivaganga district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at cgwb.gov.in/District_Profile/TamilNadu/Sivaganga.pdf
3. <http://www.onefivenine.com/india/villag/sivaganga>
4. IMD, 2013. Temperature of Sivaganga District. Regional Meterological Centre, Chennai.