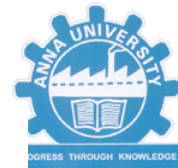




DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR RAMANATHAPURAM



29.1 About Ramanathapuram

Ramanathapuram is one of the coastal districts of bounded on the north by Sivaganga and Pudukottai districts, on the east and south by the Bay of Bengal, and on the west by Thoothukudi and Virudhunagar districts. The district headquarters is located at Ramanathapuram. The district lies between 90°05' and 90°5' North latitude and 78° 1' and 79°27' East longitude.^{1,2}

29.2 Climate of Ramanathapuram

The district enjoys a tropical climate. The climate of this district in the inland plains is generally hot and dry with a low degree of humidity except within a radius of about 20 km from the coast, where the temperature is tolerable and cool on account of the sea breeze. The mean minimum temperature is 25.7°C and mean maximum daily temperature is 30.6°C respectively.^{1,2}

29.3 Temperature Projections for Ramanathapuram

The annual maximum and minimum temperature normal (1970-2000) of the district are 31.8°C and 25.2°C respectively.³ Projections of maximum temperature over Ramanathapuram for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of **1.0°C**, **1.8°C** and **2.8°C** respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of **1.1°C**, **2.2°C** and **3.2°C** respectively.

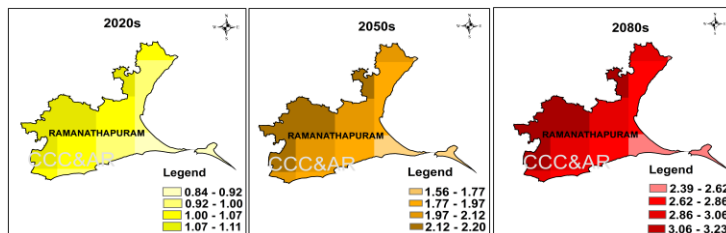


Fig 29.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

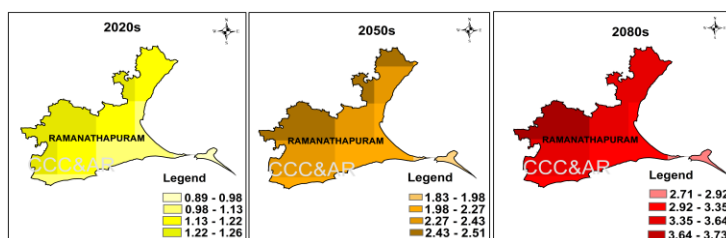


Fig 29.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 29.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.0°C	+1.8°C	+2.8°C
Minimum Temperature	+1.1°C	+2.2°C	+3.2°C

29.4 Key Findings

The average change of maximum and minimum temperature for Ramanathapuram district are expected to increase by **2.8°C** and **3.2°C** respectively by the end of the century.

29.5 References

1. ENVIS 2015. Ramanathapuram District. ENVIS Centre Tamilnadu, Available at tnevis.nic.in/files/RAMANATHAPURAM.pdf
2. Central Ground Water Board 2009. District ground water brochure Ramanathapuram district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at cgwb.gov.in/district_profile/tamilnadu/ramanathapuram.pdf
3. IMD, 2013. Temperature of Ramanathapuram District. Regional Meterological Centre, Chennai.