



இந்திய அரசு
இந்திய வானிலை ஆய்வு துறை
மண்டல வானிலை ஆய்வு மையம்
6, கல்லூரி சாலை
சென்னை-600006 -
தொலைபேசி: 044- 28271951



GOVERNMENT OF INDIA
INDIA METEOROLOGICAL DEPARTMENT
Regional Meteorological Centre
No. 6, College Road
Chennai-600006
Phone: 044- 28271951.

EXTENDED RANGE FORECAST FOR TAMILNADU, PUDUCHERRY AND KARAIKAL
Thursday, the 21st March 2024

Current weather status & Outlook for next two weeks

1. Realised Weather Summary for the past week (14th to 20th March 2024)

I. Rainfall:

(i) Rainfall during the week (14th to 20th Mar 2024)

Rain occurred over Tamilnadu at *isolated* places on 16th. Dry weather prevailed over Tamilnadu on 14th, 15th, 17th-20th; over Puducherry and Karaikal during 14th-20th March 2024.

Heavy rainfall amounts (cm) reported during the week (14th to 20th Mar 2024):

14th to 20th Mar 2024: NIL

Station-wise cumulative rainfall during the week (**14th to 20th Mar 2024**) is depicted in Fig.1a.

The sub-divisional rainfall during the week was **0.0mm** against the normal rainfall of **04.4mm** which comes under ***Largely Deficient* (-99%)** category. Out of the 40 districts, **01** district received – ***Largely Deficient*** rainfall and **39** districts received ***No rain*** during the week (Fig.1b).

(ii) Seasonal Rainfall Scenario (01st Mar to 20th Mar 2024):

The cumulative rainfall over Tamilnadu subdivision during the season from 01st Mar to 20th Mar 2024 was **0.0 mm** against the normal rainfall of **14.5 mm**, which comes under ***Largely Deficient*** category (-99%) during this period (Fig.2). Out of the 40 districts, **01 district** came under – ***Largely deficient*** category and **39** districts came under - ***No rain*** category during the period (Fig.2)

II. Temperature:

During the week from **14th to 20th Mar 2024**, maximum and minimum temperatures were near normal to above normal at many places over Tamilnadu subdivision.

The highest maximum temperature recorded during the week was **40.2°C** at **Erode** on 15th Mar 2024.

The lowest minimum temperature recorded over the plains of the subdivision was **17.0°C** at **Namakkal** on 20th March 2024 and over the hilly areas, **9.9°C** at **Kodaikanal** on 20th Mar 2024.

(*Note*: Realised rainfall and temperature descriptions given above are based on the observations during the past 24 hours ending 08:30 IST of dates mentioned therein.)

2. Outlook for the next two weeks for the Tamil Nadu subdivision:

(i) Rainfall:

Week-1 (22-03-2024 to 28-03-2024): As per extended range predictions by dynamical models, slightly above normal rainfall is likely over extreme south coastal districts, below normal to near normal rainfall is likely over Tamilnadu, Puducherry and Karaikal area during week-1 (Fig.3).

Week-2 (29-03-2024 to 04-04-2024): Slightly below normal rainfall is likely over western ghat districts and generally dry weather condition is likely over rest of Tamilnadu, Puducherry and Karaikal during the week-2 (Fig.3).

(ii) Temperature:

(a) Maximum Temperature

Week-1 (22-03-2024 to 28-03-2024): Maximum temperatures are likely to be *near normal* over many parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 32°C to 36°C over Tamilnadu, Puducherry and Karaikal during week-1 (Fig.4a).

Week-2 (29-03-2024 to 04-04-2024): Maximum temperatures are likely to be *near normal to slightly above normal* over many parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 36°C to 38°C over central parts of Tamilnadu and 32°C to 36°C over rest of Tamilnadu, Puducherry & Karaikal during week-2 (Fig.4a).

(b) Minimum Temperature

Week-1 (22-03-2024 to 28-03-2024): Minimum temperatures are likely to be *near normal to above normal* over Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 22°C to 26°C over coastal and adjoining interior districts of Tamilnadu, Puducherry and Karaikal and 20°C to 22°C over the plains of rest of interior Tamilnadu during the week-1 (Fig.4b).

Week-2 (29-03-2024 to 04-04-2024): Minimum temperatures are likely to be *slightly above normal* over many parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 24°C to 26°C over coastal and adjoining interior districts of Tamilnadu, Puducherry and Karaikal and 20°C to 24°C over the plains of rest of interior Tamilnadu during the week-2 (Fig.4b).

Dr. B. Geetha,
Scientist-D
for the Deputy Director General of Meteorology
Regional Meteorological Centre, Chennai.

Next bulletin will be issued on 28th Mar 2024 (Thursday)

LEGEND:

Spatial rainfall distribution:

| % Stations reporting Rainfall | Category |
|--------------------------------------|--------------------------------------|
| 76-100 | Widespread (WS/ most places) |
| 51-75 | Fairly Widespread (FWS/ many places) |
| 26-50 | Scattered (SCT/ few places) |
| 1 -25 | Isolated (ISOL/ one or two places) |
| No Rain | Dry |

Rainfall intensity:

| 24-hr accumulated rainfall (cm/day) | Category |
|--|----------------------|
| Upto 1 | Light rain |
| 2-6 | Moderate rain |
| 7-11 | Heavy rain |
| 12-20 | Very heavy rain |
| ≥ 21 | Extremely heavy rain |

Description of rainfall with respect to normal:

| Rainfall percentage departure from normal | Category |
|--|-------------------|
| ≥ +60% | Large excess |
| +20% to +59% | Excess |
| -19% to +19% | Normal |
| -20% to -59% | Deficient |
| ≤ -60% | Largely deficient |

Description of Temperature:

| | |
|--------------------------|--|
| Markedly above normal | Departure from normal: +5.1°C or more |
| Appreciably above normal | Departure from normal: +3.1° C to +5.0 ° C |
| Above Normal | Departure from normal: +1.6 °C to +3.0 °C |
| Normal | Departure from normal: -1.5° C to +1.5° C |
| Below Normal | Departure from normal: -1.6 °C to -3.0 °C |
| Appreciably below normal | Departure from normal: -3.1° C to -5.0 ° C |
| Markedly below normal | Departure from normal: -5.1°C or less |

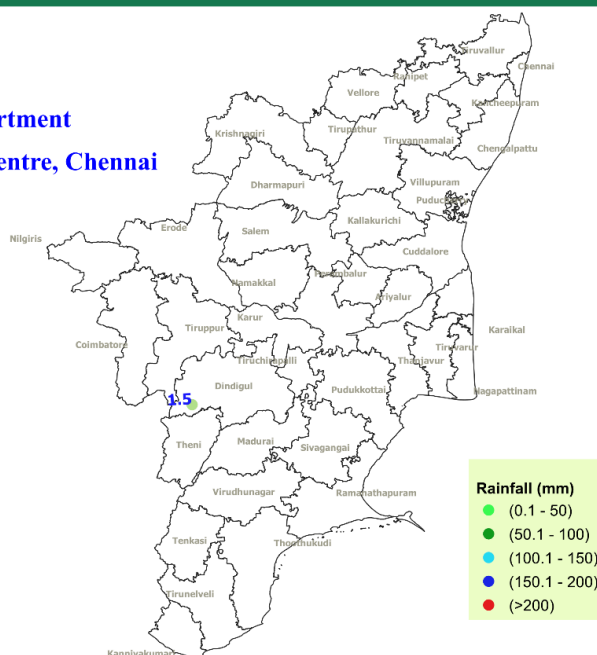
| | |
|---|---|
| North Tamil Nadu (NTN) districts | Chennai, Kancheepuram, Chengalpattu, Tiruvallur, Cuddalore, Villupuram, Tirupattur, Vellore, Ranipet, Kallakurichi, Tiruvannamalai, Krishnagiri, Dharmapuri, Salem, Namakkal, Karur, Erode, Thanjavur, Tiruvarur, Mayiladuthurai, Nagapattinam, Pudukottai, Nilgiris, Coimbatore, Tiruppur, Tiruchirapalli, Ariyalur, Perambalur. |
| South Tamil Nadu (STN) districts | Dindigul, Theni, Virudhunagar, Madurai, Sivagangai, Ramanathapuram, Thoothukudi, Thenkasi, Tirunelveli, Kanyakumari. |
| Interior Tamil Nadu (ITN) districts | Tirupattur, Vellore, Ranipet, Kallakurichi, Tiruvannamalai, Kancheepuram, Krishnagiri, Dharmapuri, Salem, Namakkal, Karur, Erode, Nilgiris, Coimbatore, Tiruppur, Tiruchirapalli, Ariyalur, Perambalur, Sivagangai, Virudhunagar, Theni, Dindigul, Madurai, Thenkasi. |
| North interior Tamil Nadu (NITN) districts | Tirupattur, Vellore, Ranipet, Kallakurichi, Tiruvannamalai, Kancheepuram, Krishnagiri, Dharmapuri, Salem, Namakkal, Karur, Erode, Nilgiris, Coimbatore, Tiruppur, Tiruchirapalli, Ariyalur, Perambalur. |
| South interior Tamil Nadu (SITN) districts | Sivagangai, Virudhunagar, Theni, Dindigul, Madurai, Thenkasi. |
| Coastal Tamil Nadu (CTN) districts | Tiruvallur, Chennai, Chengalpattu, Villupuram, Cuddalore, Thanjavur, Tiruvarur, Mayiladuthurai, Nagapattinam, Pudukottai, Ramanathapuram, Thoothukudi, Tirunelveli, Kanyakumari. |
| North Coastal Tamil Nadu (NCTN) districts | Tiruvallur, Chennai, Chengalpattu, Villupuram, Cuddalore, Thanjavur, Tiruvarur, Mayiladuthurai, Nagapattinam, Pudukottai. |
| South Coastal Tamil Nadu (SCTN) districts | Ramanathapuram, Thoothukudi, Tirunelveli, Kanyakumari. |
| Delta Districts | Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai, Pudukottai and Karaikal area. |
| Delta and Adjoining districts | Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai, Pudukottai, Karaikal and Tiruchirapalli, Perambalur, Ariyalur, Cuddalore. |
| Western Ghat districts | Nilgiris, Coimbatore, Tiruppur, Theni, Dindigul, Thenkasi, Virudhunagar |
| PDC | Puducherry and Karaikal |



7 days cumulative rainfall (mm) from 08:30 IST of
14/03/2024 to 08:30 IST of 20/03/2024

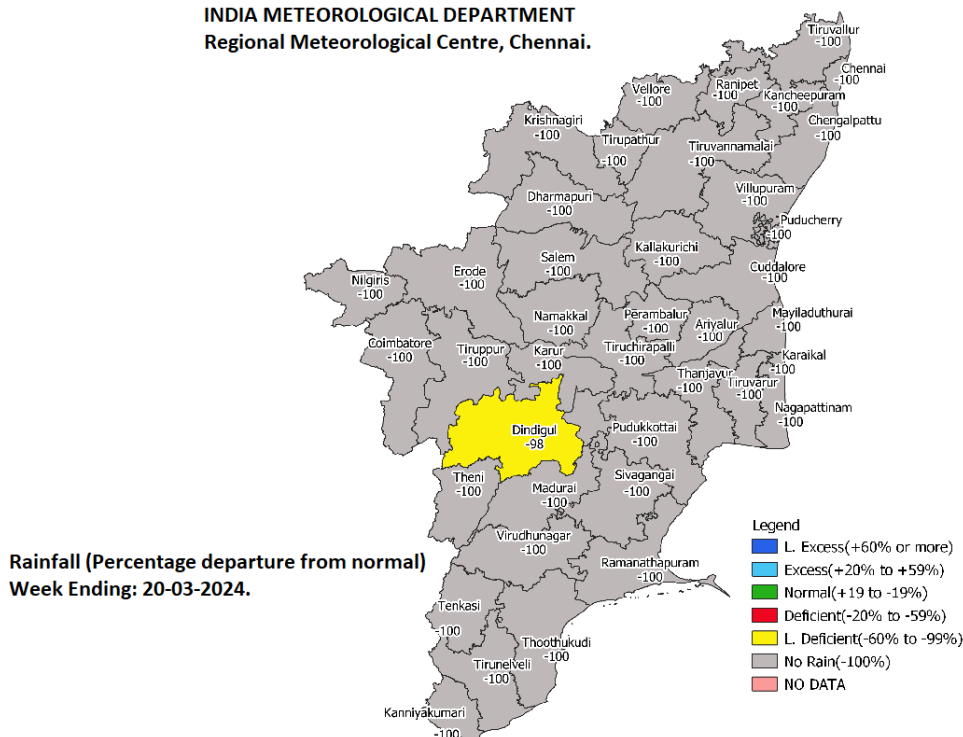


India Meteorological Department
Regional Meteorological Centre, Chennai
Date : 20/03/2024



**Fig.1a: Station-wise cumulative rainfall during the week
(past 7 days ending 08:30 IST of 20-03-2024)**

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**Fig.1b: District-wise weekly rainfall (percentage departures from normal)
during the week ending 20-03-2024**

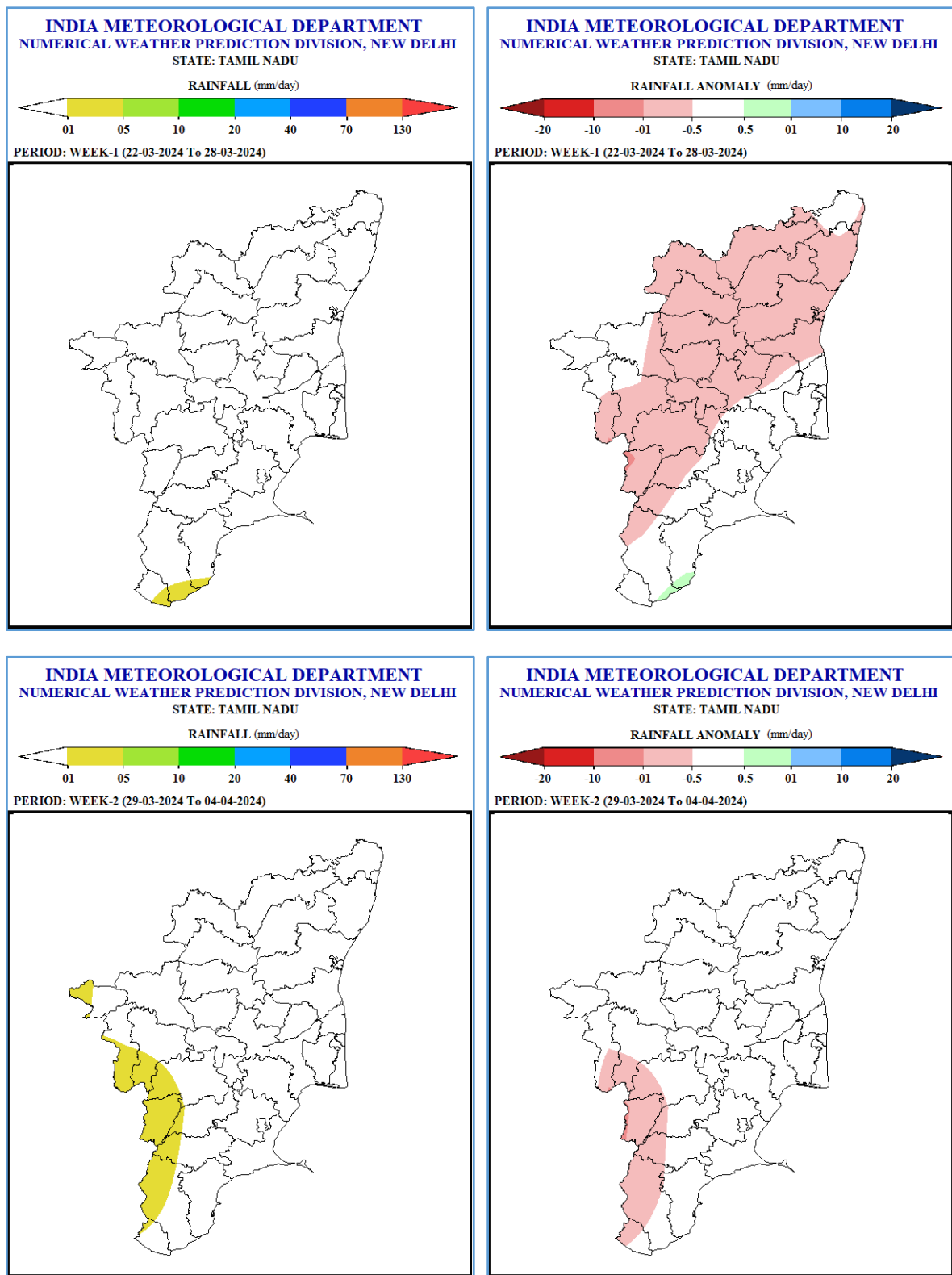


Fig.3: Predicted rainfall (in mm/day) during the Week-1 (22-03-2024 to 28-03-2024) & Week-2 (29-03-2024 to 04-04-2024)

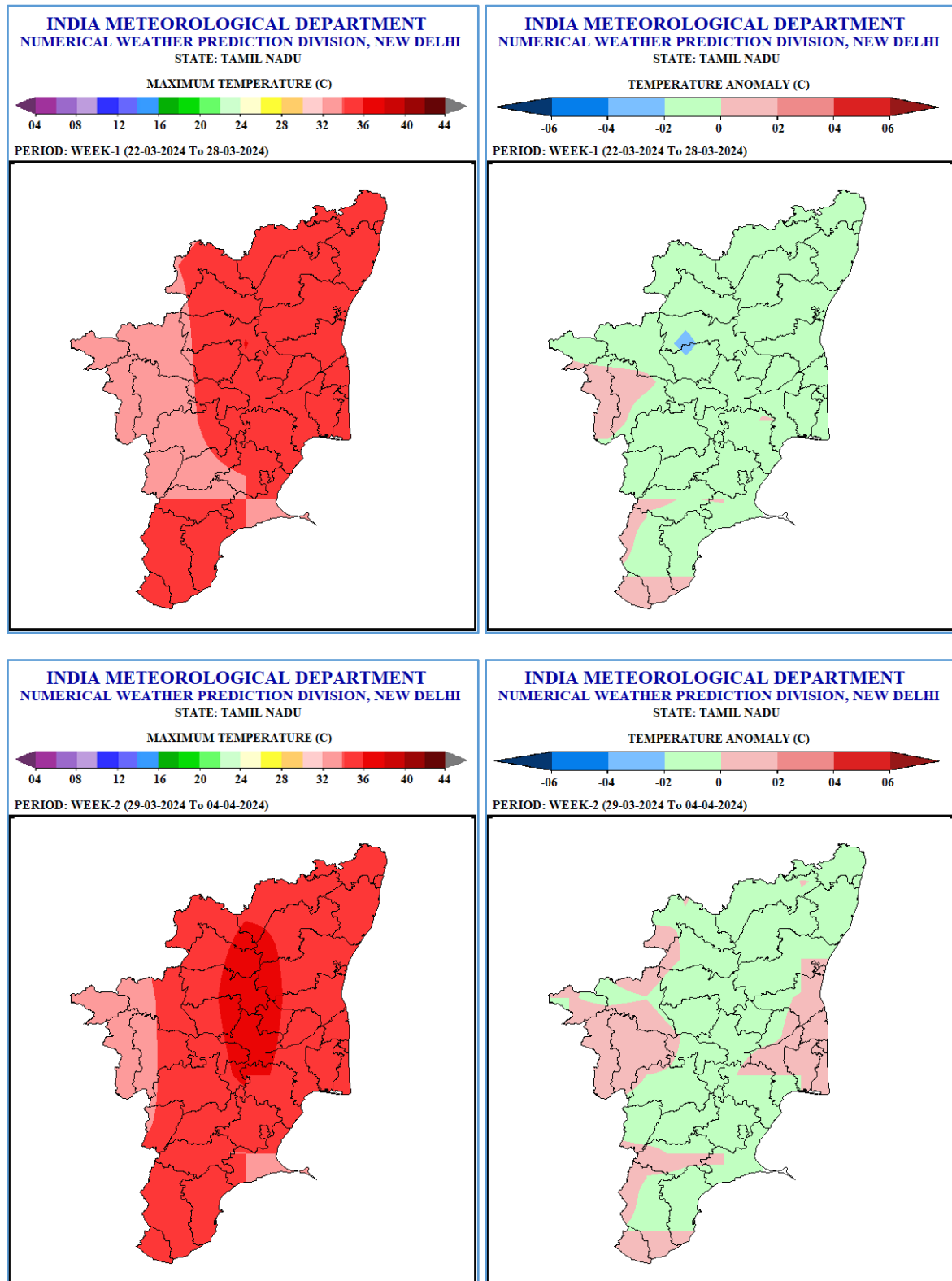


Fig.4a: Predicted maximum temperature (°C) and its departure from the normal (°C) during the Week-1 (22-03-2024 to 28-03-2024) & Week-2 (29-03-2024 to 04-04-2024)

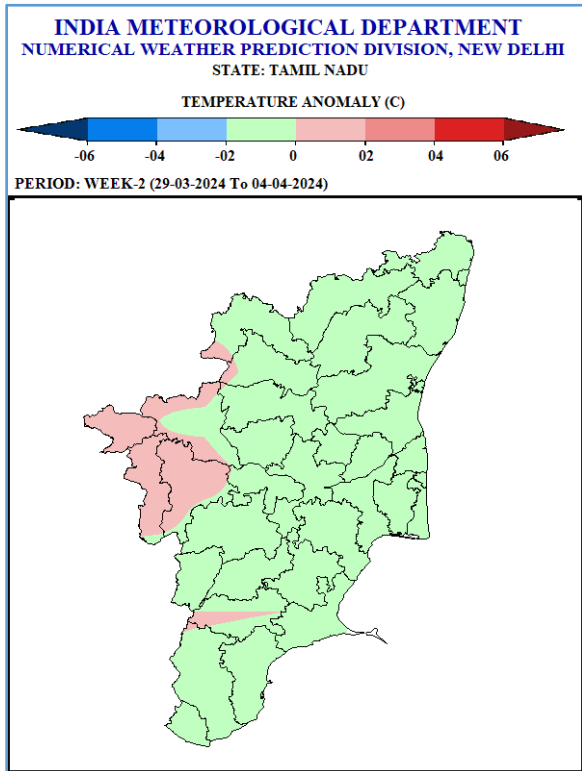
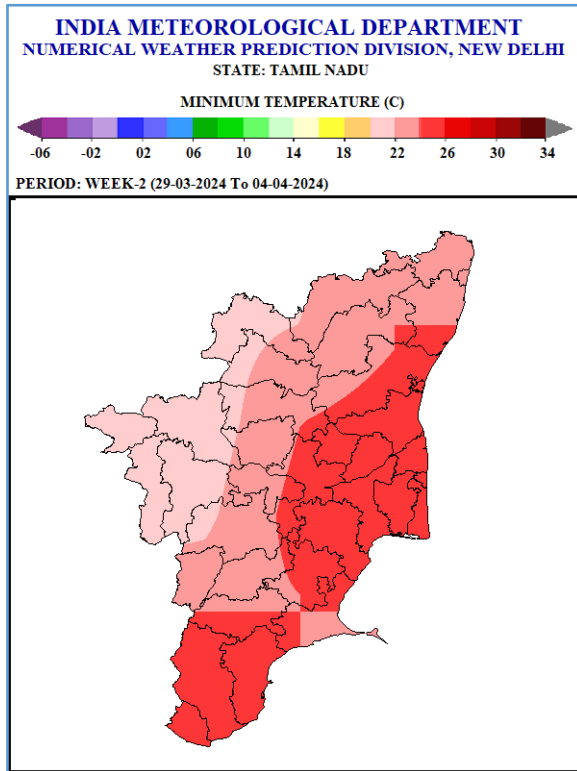
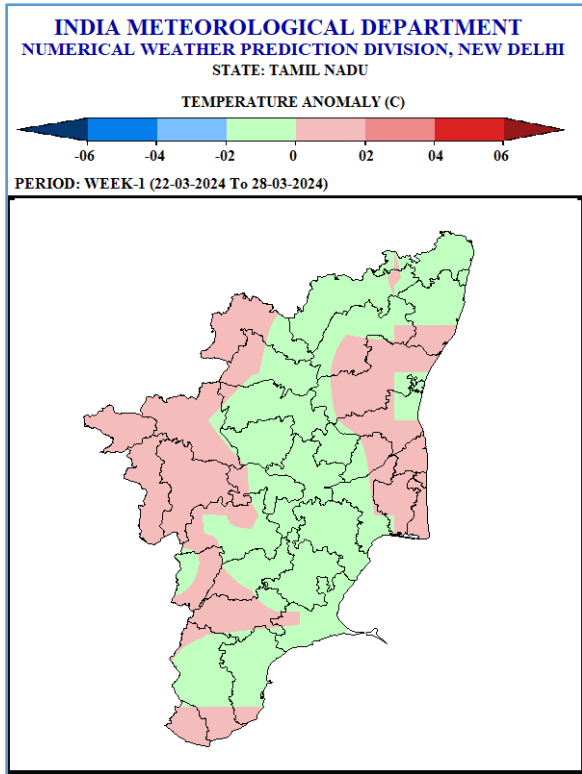
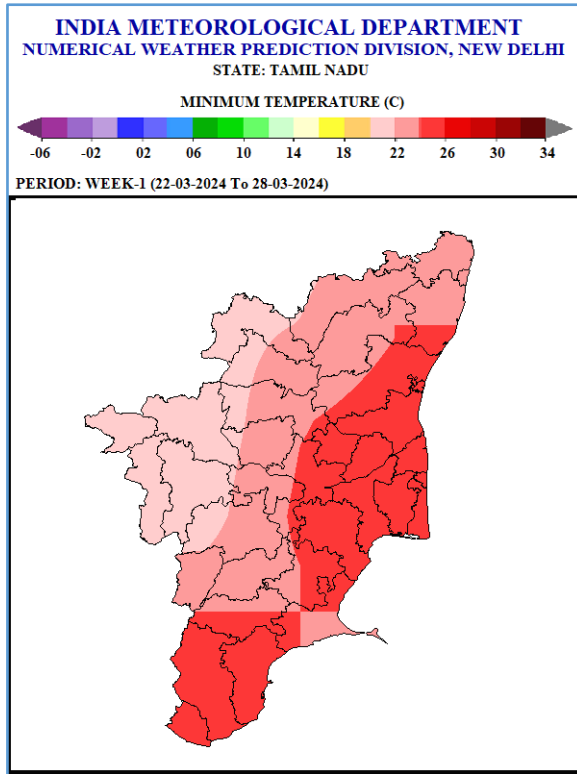


Fig.4b: Predicted minimum temperature ($^{\circ}\text{C}$) and its departure from the normal ($^{\circ}\text{C}$) during the Week-1 (22-03-2024 to 28-03-2024) & Week-2 (29-03-2024 to 04-04-2024)