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மண்டல வானிலை ஆய்வு மையம்
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EXTENDED RANGE FORECAST FOR TAMILNADU, PUDUCHERRY AND KARAIKAL
Thursday, the 28th March 2024

Current weather status & Outlook for next two weeks

1. Realised Weather Summary for the past week (21st to 27th Mar 2024)

I. Rainfall:

(i) Rainfall during the week (21st to 27th Mar 2024)

Rain occurred over Tamilnadu at isolated places on 21st-24th; Dry weather prevailed over Tamilnadu on 25th, 26th and 27th; and over Puducherry & Karaikal during 21st-27th March 2024.

Heavy rainfall amounts (cm) reported during the week (21st to 27th Mar 2024):

21st to 27th Mar 2024: NIL

Station-wise cumulative rainfall during the week (**21st to 27th Mar 2024**) is depicted in Fig.1a.

The sub-divisional rainfall during the week was **1.0 mm** against the normal rainfall of **03.7 mm** which comes under **Large Deficient (-74%)** category. Out of the 40 districts, **01** district received **Large Excess** rainfall, **04** districts - **Deficient** rainfall, **07** districts - **Largely Deficient** rainfall and **28** districts received **No rain** during the week (Fig.1b).

(ii) Seasonal Rainfall Scenario (01st Mar to 27th Mar 2024):

The cumulative rainfall over Tamilnadu subdivision during the season from 01st Mar to 27th Mar 2024 was **1.0 mm** against the normal rainfall of **18.2 mm**, which comes under **Largely Deficient** category (**-95%**) during this period (Fig.2). Out of the 40 districts, **01** district came under – **Deficient** category, **15** districts – under **Largely deficient** category and **24** districts - under **No rain category** during the period (Fig.2).

II. Temperature:

During the week from **21st to 27th Mar 2024**, maximum temperatures were above normal at a few places and minimum temperatures were near normal to above normal at most places over Tamilnadu subdivision.

The highest maximum temperature recorded during the week was **39.0°C** at **Erode** on 23rd Mar 2024.

The lowest minimum temperature recorded over the plains of the subdivision was **16.0°C** at **Namakkal** on 27th March 2024 and over the hilly areas, **8.6°C** at **Kodaikanal** on 23rd 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 (29-03-2024 to 04-04-2024): As per extended range predictions by dynamical models, slightly below normal rainfall is likely over western ghat and adjoining north interior districts and generally dry condition is likely over rest of Tamilnadu, Puducherry and Karaikal area during week-1 (Fig.3).

Week-2 (05-04-2024 to 11-04-2024): Slightly below normal rainfall is likely over the southern and the delta districts and Karaikal area and generally dry weather condition is likely over rest of Tamilnadu and Puducherry during the week-2 (Fig.3).

(ii) Temperature:

(a) Maximum Temperature

Week-1 (29-03-2024 to 04-04-2024): Maximum temperatures are likely to be near *normal to above normal* over 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 and Karaikal during week-1 (Fig.4a).

Week-2 (05-04-2024 to 11-04-2024): Maximum temperatures are likely to be above *normal* over many parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 36°C to 40°C over central and a few pockets of north interior Tamilnadu and 32°C to 36°C over rest of Tamilnadu, Puducherry & Karaikal during week-2 (Fig.4a).

(b) Minimum Temperature

Week-1 (29-03-2024 to 04-04-2024): Minimum temperatures are likely to be near normal to slightly above normal over most parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 24°C to 26°C over most 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-1 (Fig.4b).

Week-2 (05-04-2024 to 11-04-2024) 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).

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Next bulletin will be issued on 04th Apr, 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

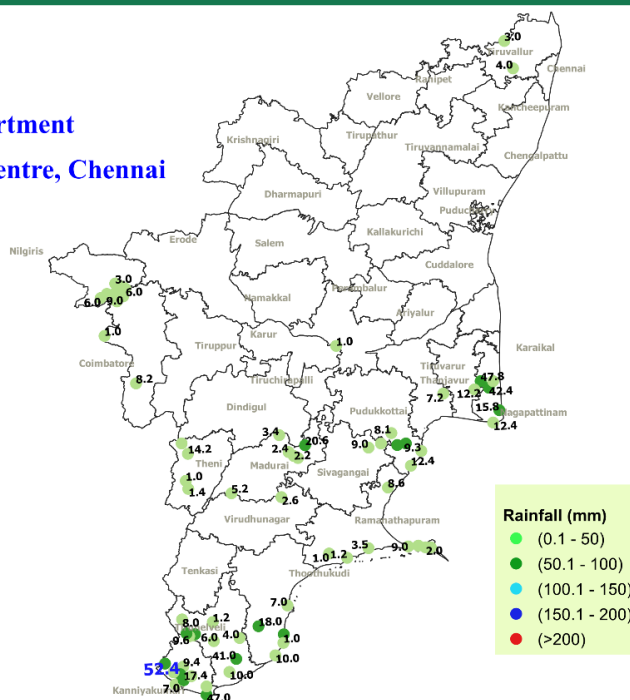


Fig.1a: Station-wise cumulative rainfall during the week (past 7 days ending 08:30 IST of 27-03-2024)

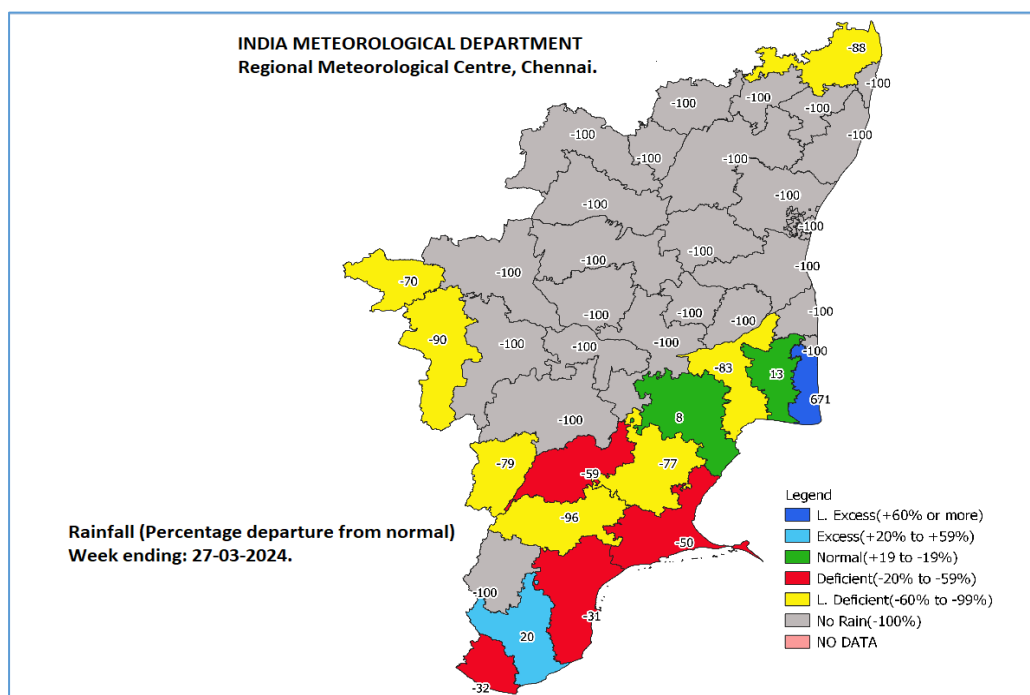


Fig.1b: District-wise weekly rainfall (percentage departures from normal) during the week ending 27-03-2024

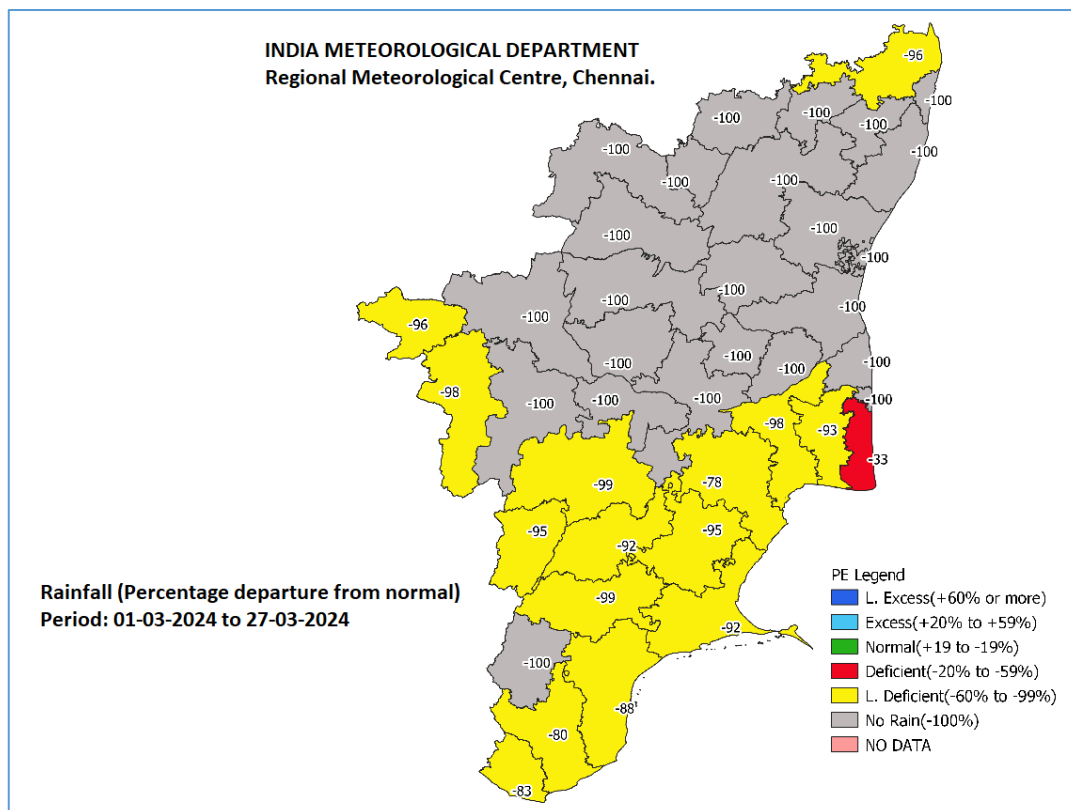


Fig.2: District-wise cumulative rainfall (percentage departures from normal) during the season (01st to 27th Mar 2024)

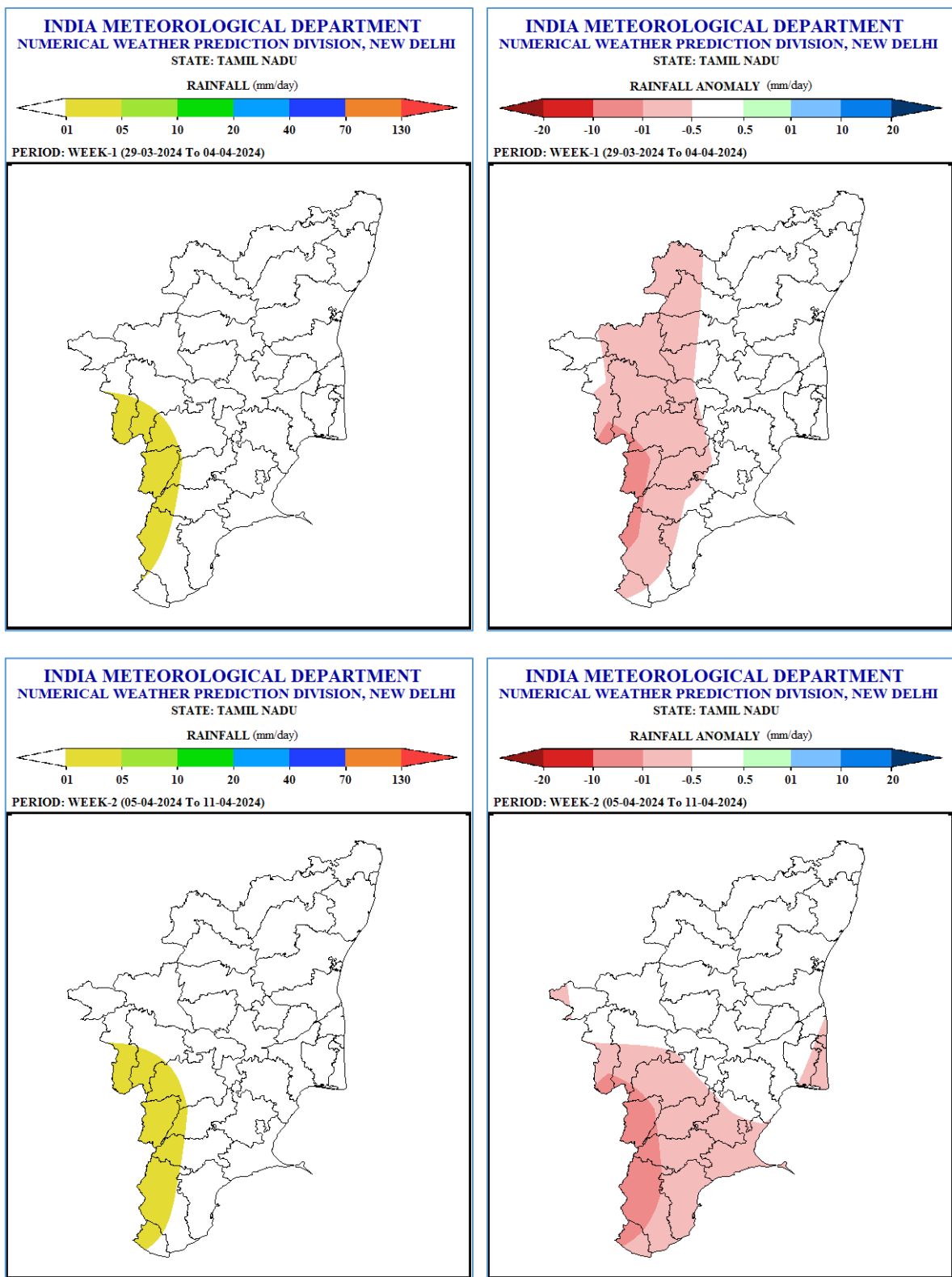


Fig.3: Predicted rainfall (in mm/day) during the Week-1 (29-03-2024 to 04-04-2024) & Week-2 (05-04-2024 to 11-04-2024)

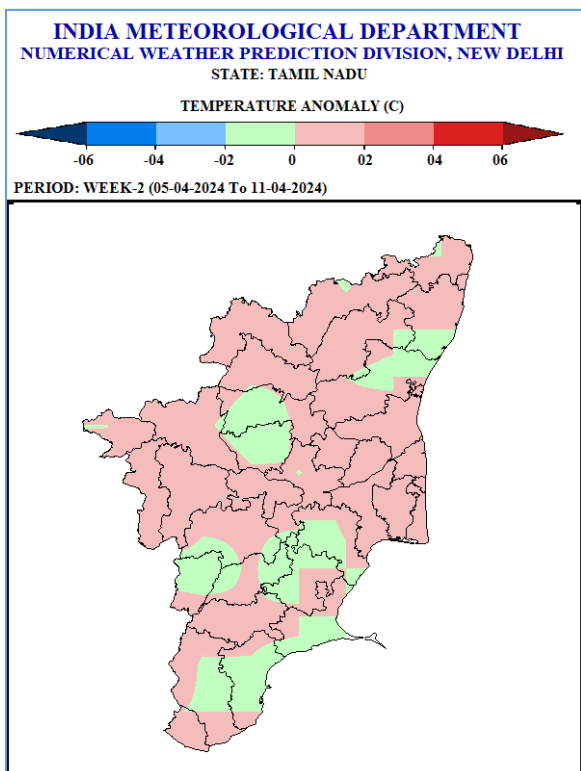
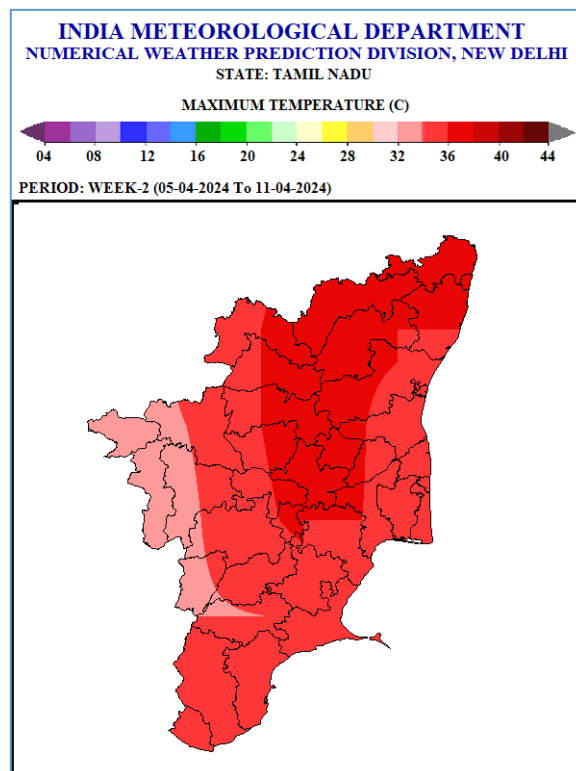
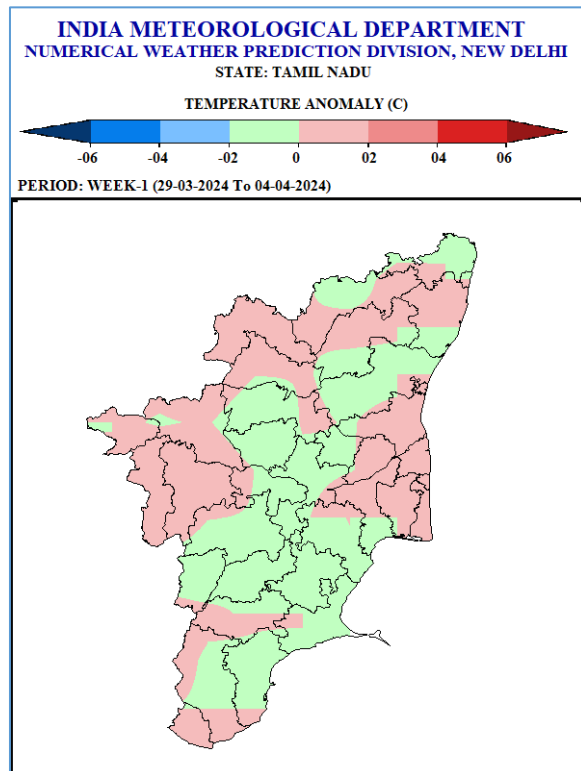
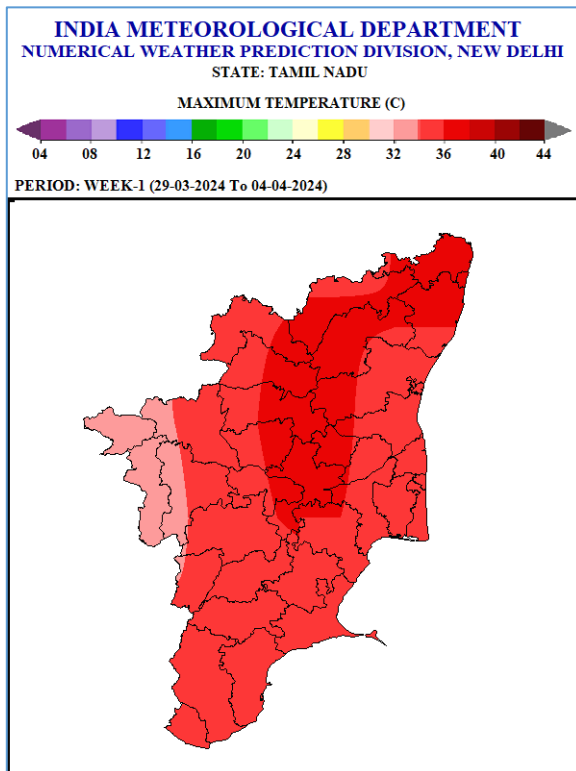


Fig.4a: Predicted maximum temperature ($^{\circ}\text{C}$) and its departure from the normal ($^{\circ}\text{C}$) during the Week-1 (29-03-2024 to 04-04-2024) & Week-2 (05-04-2024 to 11-04-2024)

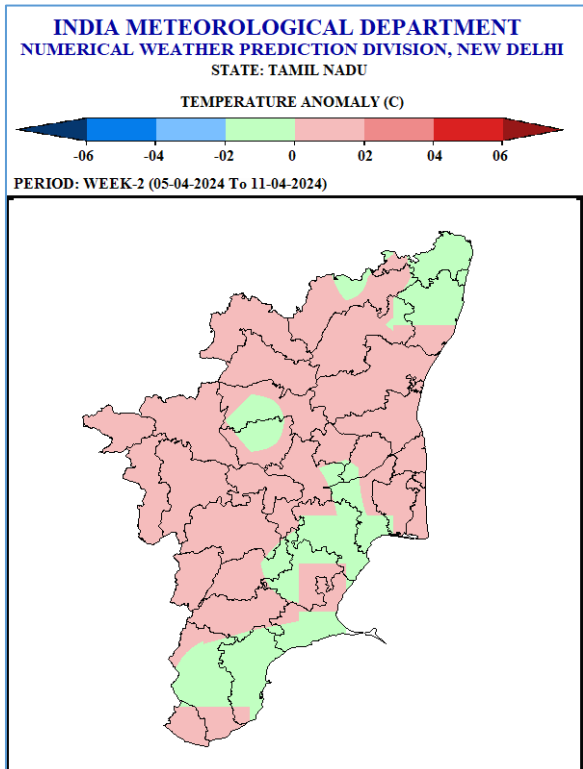
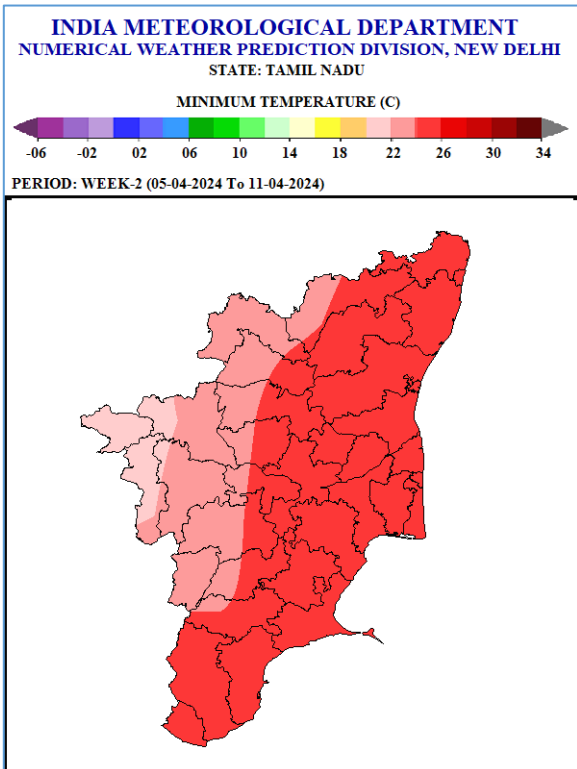
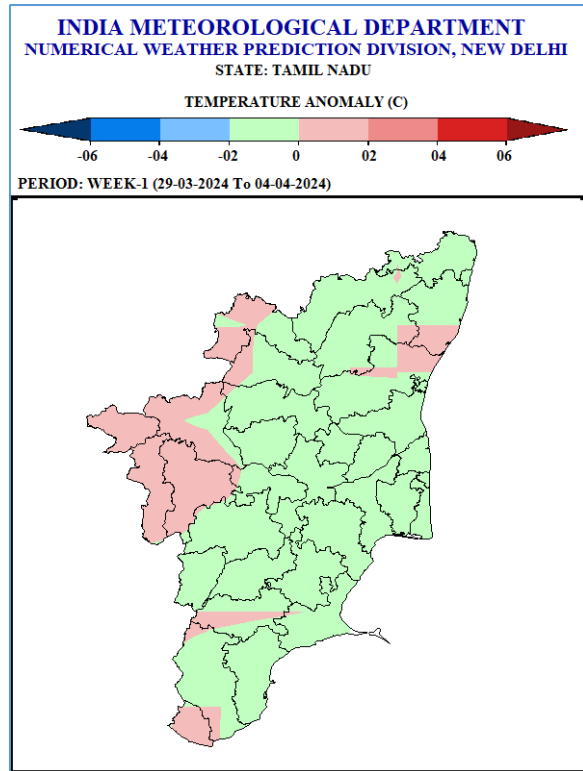
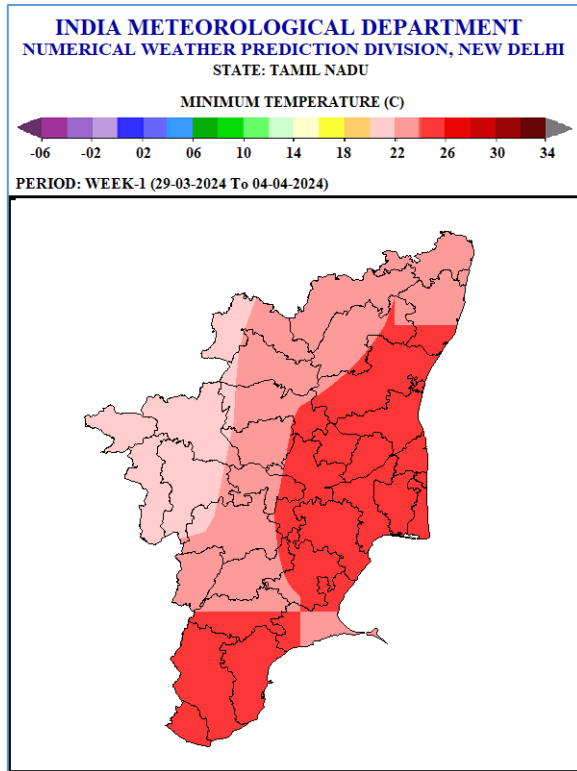


Fig.4b: Predicted minimum temperature ($^{\circ}\text{C}$) and its departure from the normal ($^{\circ}\text{C}$) during the Week-1 (29-03-2024 to 04-04-2024) & Week-2 (05-04-2024 to 11-04-2024)