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மண்டல வானிலை ஆய்வு மையம்
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EXTENDED RANGE FORECAST FOR TAMILNADU, PUDUCHERRY AND KARAIKAL
Thursday, the 25th April 2024

Current weather status & Outlook for next two weeks

1. Realised Weather Summary for the past week (18th to 24th Apr 2024)

I. Rainfall:

(i) Rainfall during the week (18th to 24th Apr 2024)

Rainfall occurred over Tamilnadu at isolated *places* from 18th – 24th. *Dry* weather prevailed over Puducherry and Karaikal from 18th – 24th April 2024.

Heavy rainfall amounts (cm) reported during the week (18th Apr to 24th Apr 2024):

18-04-2024 to 24-04-2024: NIL

Station-wise cumulative rainfall during the week (18th Apr to 24th Apr 2024) is depicted in Fig.1a.

The sub-divisional rainfall during the week was **0.6 mm** against the normal rainfall of **10.3 mm** which comes under **Largely Deficient (-94%)** category. Out of the **40** districts, **01** district received **Deficient** rainfall, **09** districts – **Largely Deficient** rainfall and **30** districts received **No rain** during the week (Fig.1b).

(ii) Seasonal Rainfall Scenario (01st Mar to 24th Apr 2024):

The cumulative rainfall over Tamilnadu subdivision during the season from 01st Mar to 24th Apr 2024 was **9.3 mm** against the normal rainfall of **49.4 mm**, which comes under **Largely Deficient** category (**-81%**) during this period (Fig.2). Out of the **40** districts, **01** district came under – **Normal** category, **01** district under – **Deficient** category, **21** districts – under **Largely Deficient** category and **17** districts came under **No rain** category during the period (Fig.2).

II. Temperature:

During the week from 18th Apr to 24th Apr 2024, maximum temperatures were above normal to appreciably above normal at many places and minimum temperatures were above normal at many places over Tamilnadu subdivision.

The highest maximum temperature recorded during the week was **43.0°C** at **Erode** district on **20th** and **23rd** April respectively.

The lowest minimum temperature recorded over the plains of the subdivision was **20.5°C** at **Namakkal** on 24th Apr 2024 and over the hilly areas, **11.8°C** at **Kodaikanal** on 24th Apr 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 (26-04-2024 to 02-05-2024): As per extended range predictions by dynamical models, below normal rainfall is likely over many parts of Tamilnadu, Puducherry and Karaikal area during week-1 (Fig.3).

Week-2 (03-05-2024 to 09-05-2024): Below normal rainfall is likely over Tamilnadu, Puducherry and Karaikal area during the week-2 (Fig.3).

(ii) Temperature:

(a) Maximum Temperature

Week-1 (26-04-2024 to 02-05-2024): Maximum temperatures are likely to be above normal over most parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 36°C to 40°C in the plains of the north interior districts and 34°C to 38°C over south and the north coastal Tamilnadu, Puducherry and Karaikal during week-1 (Fig.4a).

Week-2 (03-05-2024 to 09-05-2024): Maximum temperatures are likely to be above normal over most parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 34°C to 40°C over the plains of Tamilnadu, Puducherry and Karaikal area during week-2 (Fig.4a).

(b) Minimum Temperature

Week-1 (26-04-2024 to 02-05-2024): Minimum temperatures are likely to be slightly above normal over many western ghat districts and near normal over rest of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 24°C to 28°C over coastal and adjoining interior districts of Tamilnadu, Puducherry and Karaikal area and 20°C to 24°C over the plains of rest of Tamilnadu during the week-1 (Fig.4b).

Week-2 (03-05-2024 to 09-05-2024): 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 22°C to 24°C over the plains of a few western ghat districts and 24°C to 28°C over the plains of rest of Tamilnadu, Puducherry and Karaikal area during the week-2 (Fig.4b).

Dr. B. Geetha,
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Next bulletin will be issued on 02nd May, 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

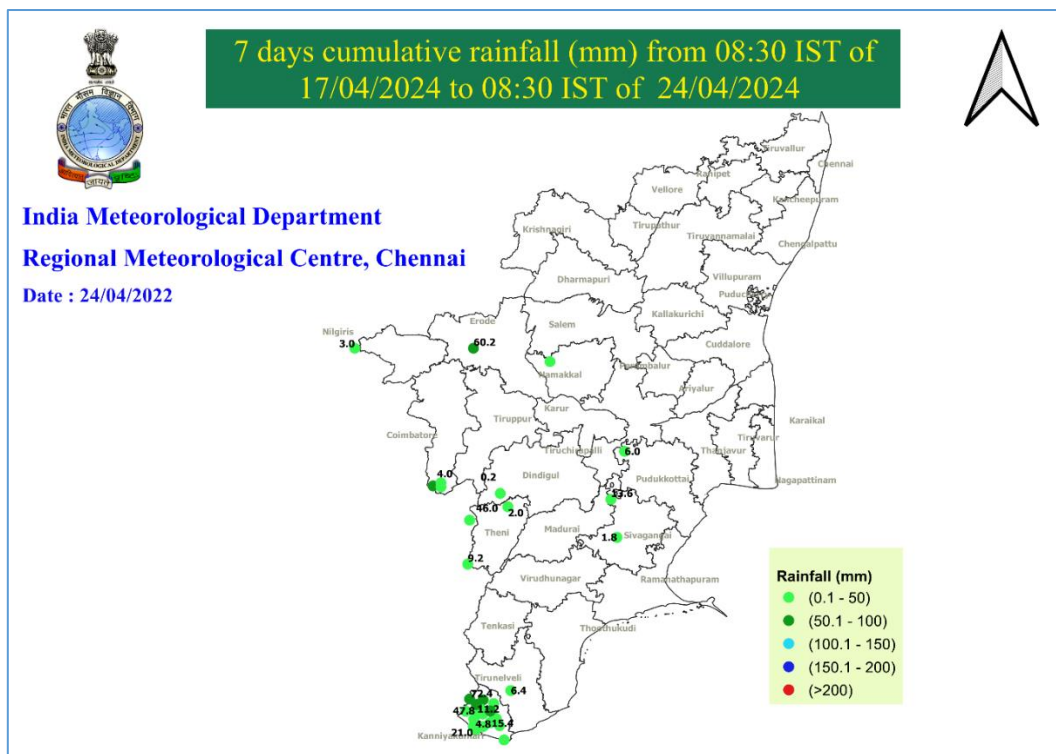
Description of rainfall with respect to normal:

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 24-04-2024)**

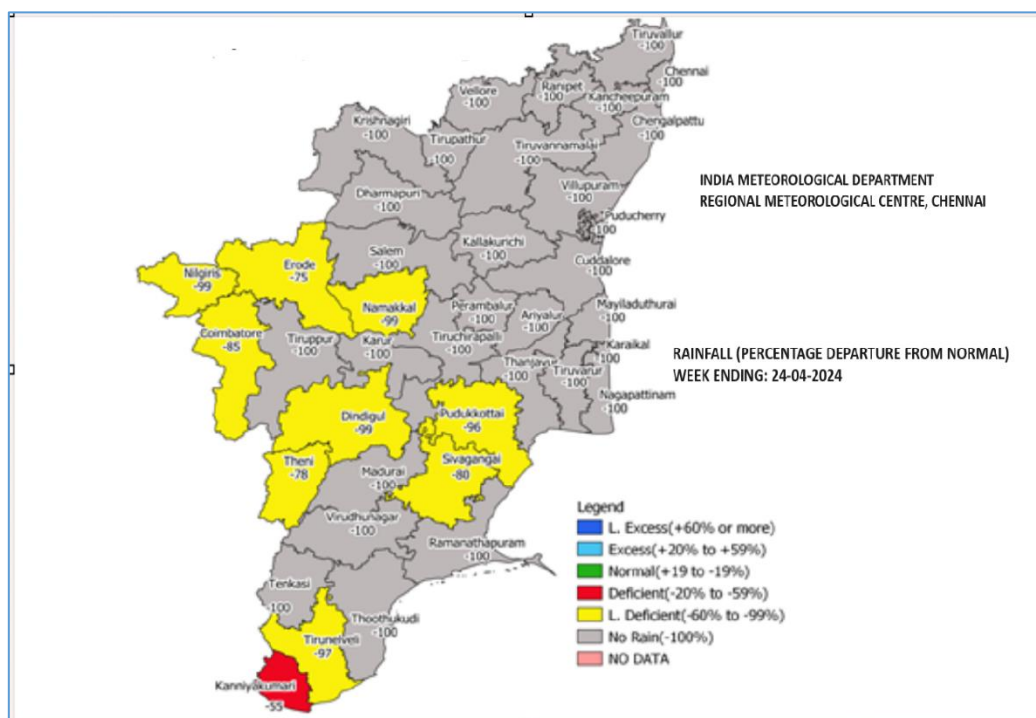


Fig.1b: District-wise weekly rainfall (percentage departures from normal) during the week ending 24-04-2024

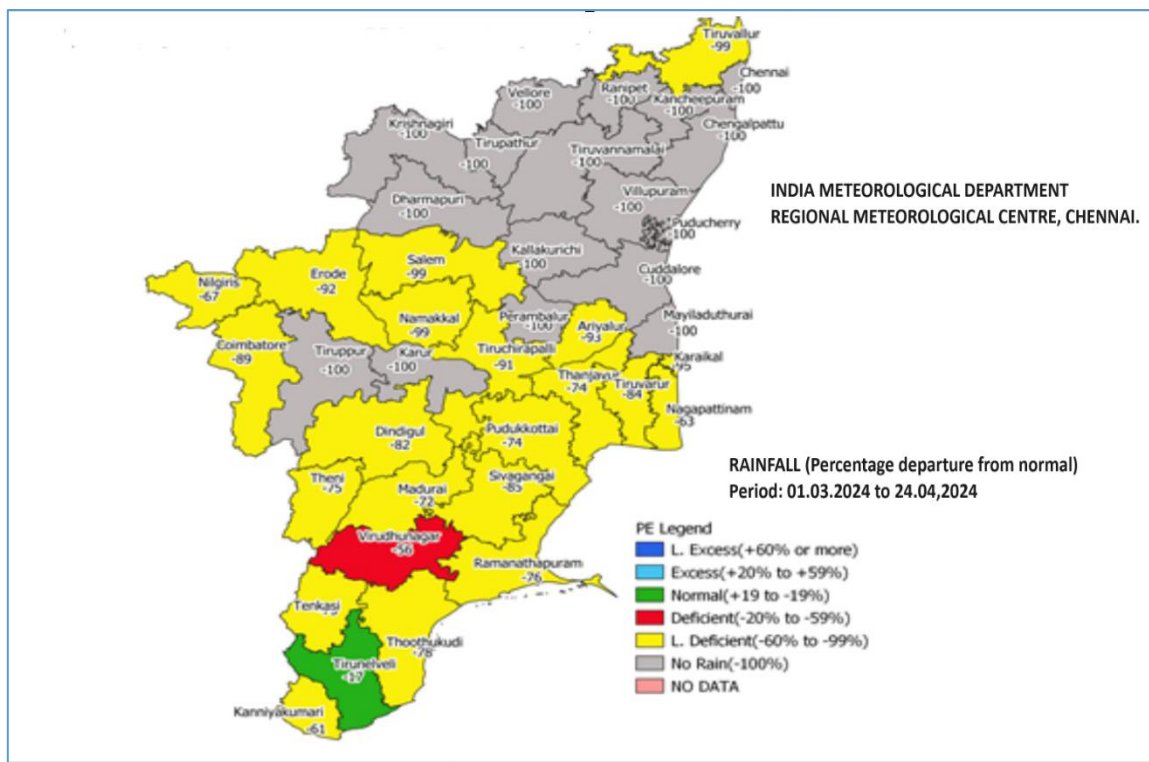


Fig.2: District-wise cumulative rainfall (percentage departures from normal) during the season (01st Mar to 24th Apr 2024)

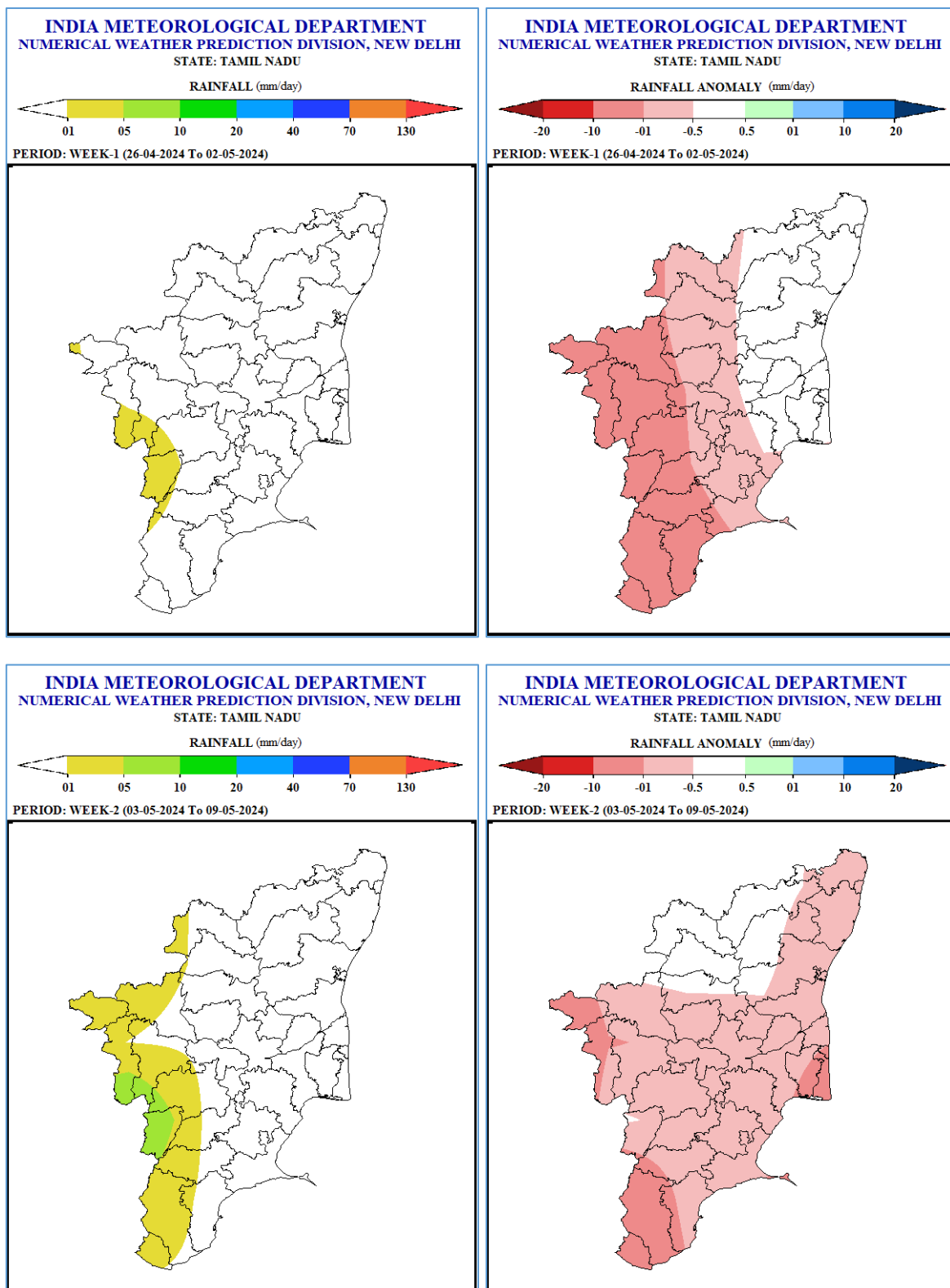


Fig.3: Predicted rainfall (in mm/day) during the Week-1 (26-04-2024 to 02-05-2024) & Week-2 (03-05-2024 to 09-05-2024)

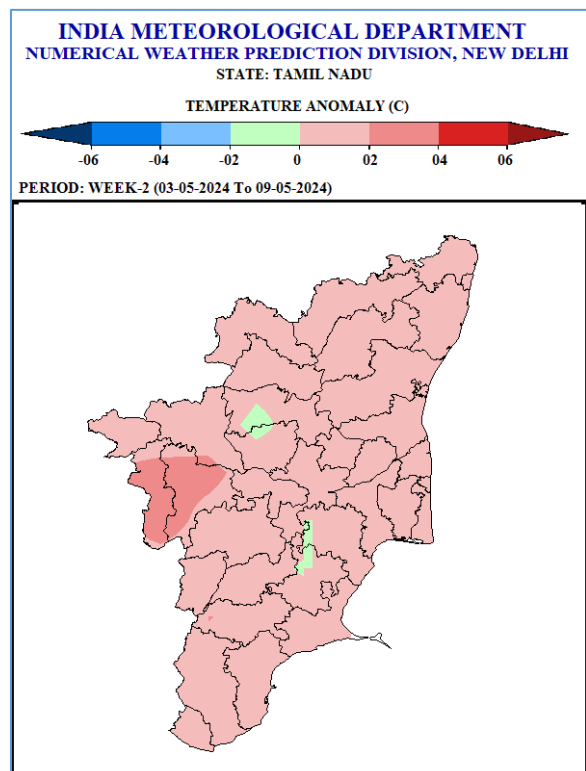
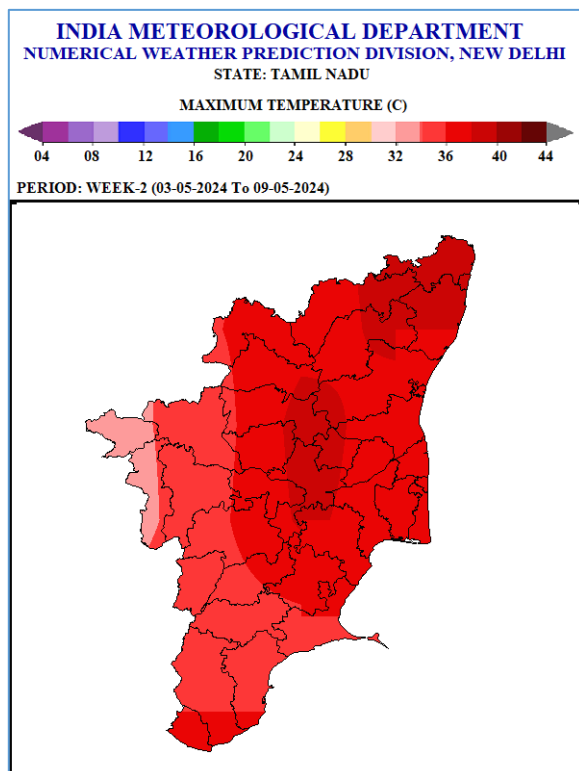
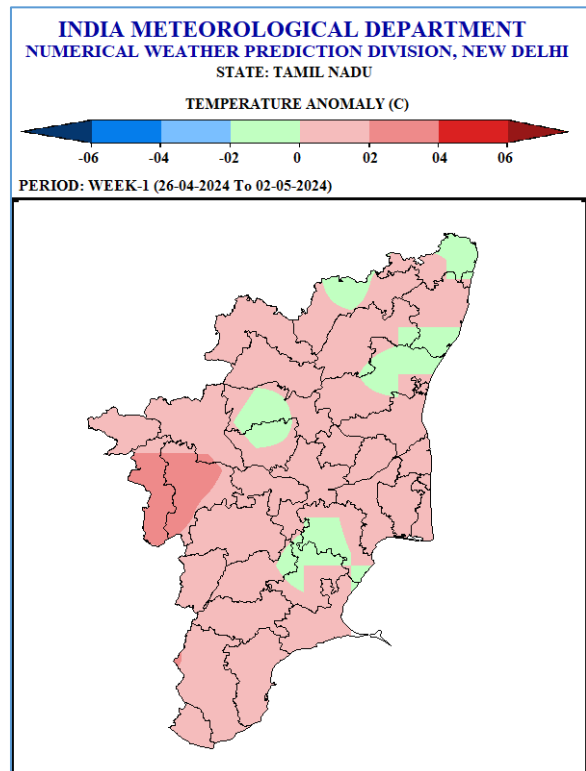
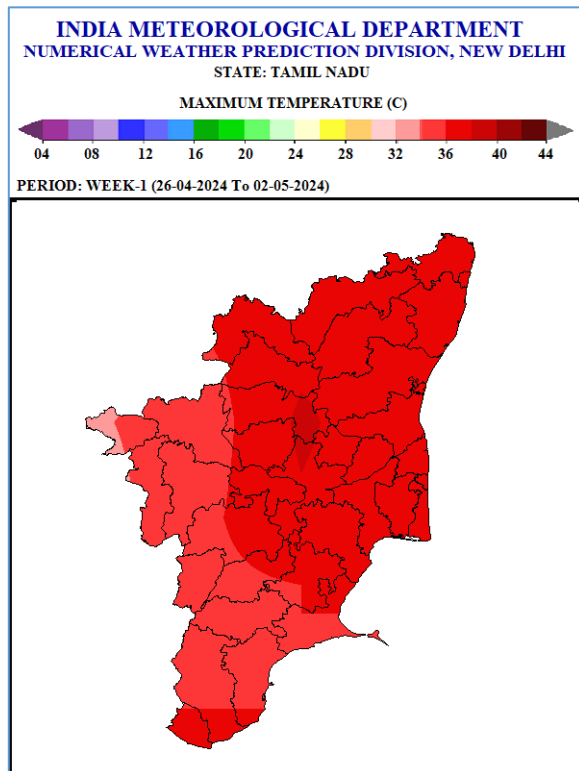


Fig.4a: Predicted maximum temperature ($^{\circ}\text{C}$) and its departure from the normal ($^{\circ}\text{C}$) during the Week-1 (26-04-2024 to 02-05-2024) & Week-2 (03-05-2024 to 09-05-2024)

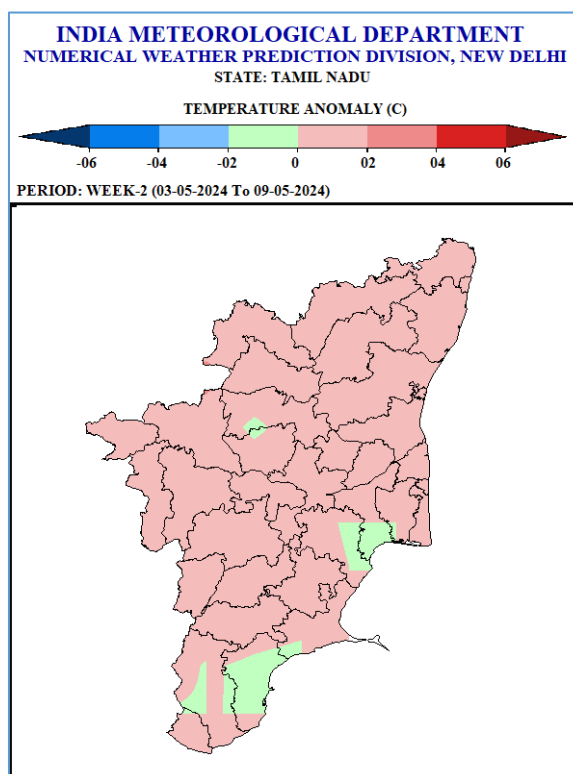
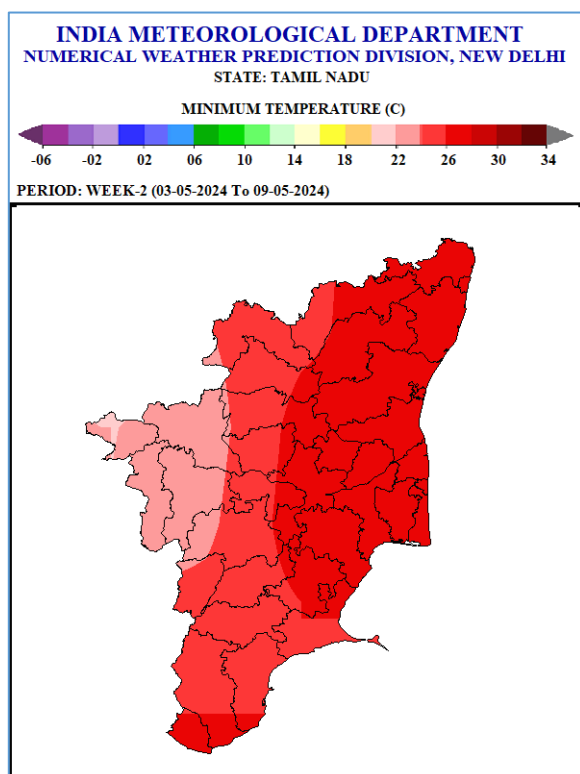
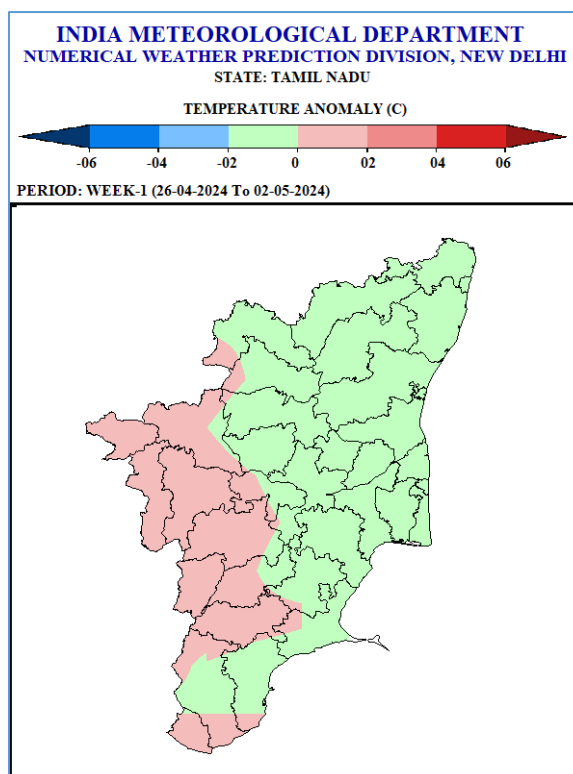
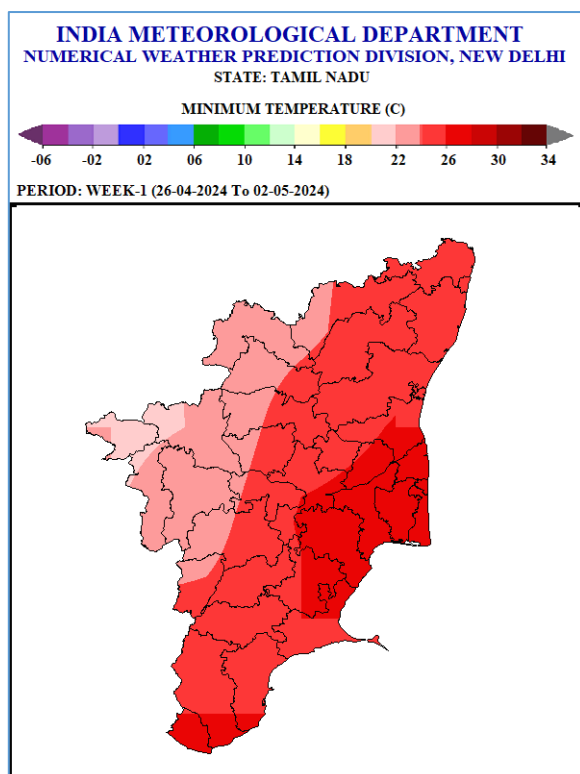


Fig.4b: Predicted minimum temperature (°C) and its departure from the normal (°C) during the Week-1 (26-04-2024 to 02-05-2024) & Week-2 (03-05-2024 to 09-05-2024)