

இந்திய அரசு
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மண்டல வானிலை ஆய்வு மையம்
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GOVERNMENT OF INDIA
INDIA METEOROLOGICAL DEPARTMENT
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EXTENDED RANGE FORECAST FOR TAMILNADU, PUIDUCHERRY AND KARAİKAL
Thursday, 13th May 2021

Current weather status & outlook for next two weeks

1. Realised Weather during the week – 05th to 12th May 2021:

I. Rainfall:

(i) Rainfall during the week 05th-12th May 2021: Rainfall occurred at a *few* places over Tamil Nadu on 8th and at *one or two* places on remaining days of the week. The sub-divisional rainfall during the week was 10.5 mm against the normal rainfall of 14.7 mm, which comes under *deficient* category [-29%]. Out of the 39 districts in the TN subdivision, 08 districts received *large excess* rainfall ($\geq +60\%$), 02 districts – *excess* rainfall (+20% to +59%), 03 districts - *normal* rainfall (-19% to +19%), 07 districts - *deficient* rainfall (-20% to -59%), 15 districts - *largely deficient* rainfall ($\leq -60\%$) and 4 districts reported no rain during the week (Fig.1).

(ii) Seasonal Rainfall Scenario (01stMarch 2021 to 12th May 2021): The cumulative rainfall during this season from 1stMarch –05th May 2021 for the TN subdivision as a whole, was 63.8 mm against the normal rainfall of 86.5 mm which comes under *deficient* category (-26%). Of the 39 districts, 01 district is in *excess* category, 9 districts in *normal* category, 20 districts in *deficient* category and 9 districts in *largely deficient* category during the period (Fig.2).

II. Temperature:

During the week ending 12th May 2021, maximum temperatures were generally in the range 34°C to 39°C in the coastal areas, 36°C to 41°C in the interior plains and 19°C-25°C in the hilly areas. They were *above normal* (departure of +1.5°C to 3.0°C from the normal) / *appreciably above normal* (departure of +3.1°C to 5.0°C from the normal) at one or two places during 05th-12th May and *appreciably below normal* (departure of -3.1°C to -5.0°C from the normal) / *below normal* (departure of -1.5°C to -3.0°C from the normal) at one or two places from 08th to 12th May and generally *normal* (-1.5°C to +1.5°C) in the rest of the subdivision during the week.

III. Chief synoptic conditions during the week:

- ✓ A low pressure area has formed over southeast Arabian Sea & adjoining Lakshadweep area today, the 13th May morning (0830 hrs IST). It is very likely to become well marked over Lakshadweep area by 14th morning, concentrate into a Depression over the same region by 15th morning and intensify into a Cyclonic Storm during the subsequent 24 hours. It is very likely to intensify further and move north-northwestwards towards Gujarat and adjoining Pakistan coasts. It is likely to reach near Gujarat coast around 18th May evening.

- ✓ Last week's trough from North Interior Karnataka & neighbourhood to South Kerala coast at 0.9 km above mean sea level persisted on 06th. It was observed from North Interior Karnataka & neighbourhood to North Kerala at 0.9 kilometres above mean sea level on 07th.
- ✓ A cyclonic circulation lay over Southeast Arabian Sea and adjoining Maldives area at 0.9 km above mean sea level on 06th.
- ✓ A cyclonic circulation lay over south Tamilnadu & adjoining Kerala & Comorin area and extended upto 1.5 km above mean sea level on 08th.
- ✓ A cyclonic circulation lay over south Tamil Nadu & neighbourhood at 1.5 km above mean sea level on 10th, over Comorin area & adjoining South Tamil Nadu between 1.5 km 3.1 km above mean sea level on 11th and over Tamil Nadu & neighbourhood at 1.5 km above mean sea level on 12th.
- ✓ A North-South trough/wind discontinuity ran from the cyclonic circulation over Vidarbha & neighbourhood to Kerala coast across Marathwada and Interior Karnataka at 0.9 km above mean sea level on 10th and 11th and from southeast Madhya Pradesh & neighbourhood to Kerala across Marathwada and Interior Karnataka at 0.9 km above mean sea level on 12th.

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

(i) Rainfall:

Week-1 (14th May to 20th May 2021): As per extended range predictions by dynamical models, above normal rainfall is very likely over the Tamil Nadu subdivision during the week-1 with enhanced rainfall along the western ghat areas (Fig.3).

Week-2 (21st May to 27th May 2021): There is possibility of normal to slightly above normal rainfall over the Tamil Nadu subdivision during the week-2 (Fig.3).

(ii) Temperature

Maximum Temperature forecast for Week-1 & Week-2: (14th May to 27th May 2021): Maximum temperatures are likely to be generally below normal during weeks 1 & 2 and are likely to be in the range 28°C to 32°C in the plains of the interior districts and 32°C-36°C in the coastal and adjoining areas of the Tamil Nadu subdivision during the weeks 1 & 2. (Fig.4).

(iii) Probability of cyclogenesis during the weeks 1 & 2 (14th-27th May 2021) :

There is high probability for cyclogenesis during the week 1.

Dr.N.Puviarasan
Scientist-E & Head
RWFC, RMC Chennai

Next bulletin will be issued on 20th May 2021 (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)
No Rain	Dry

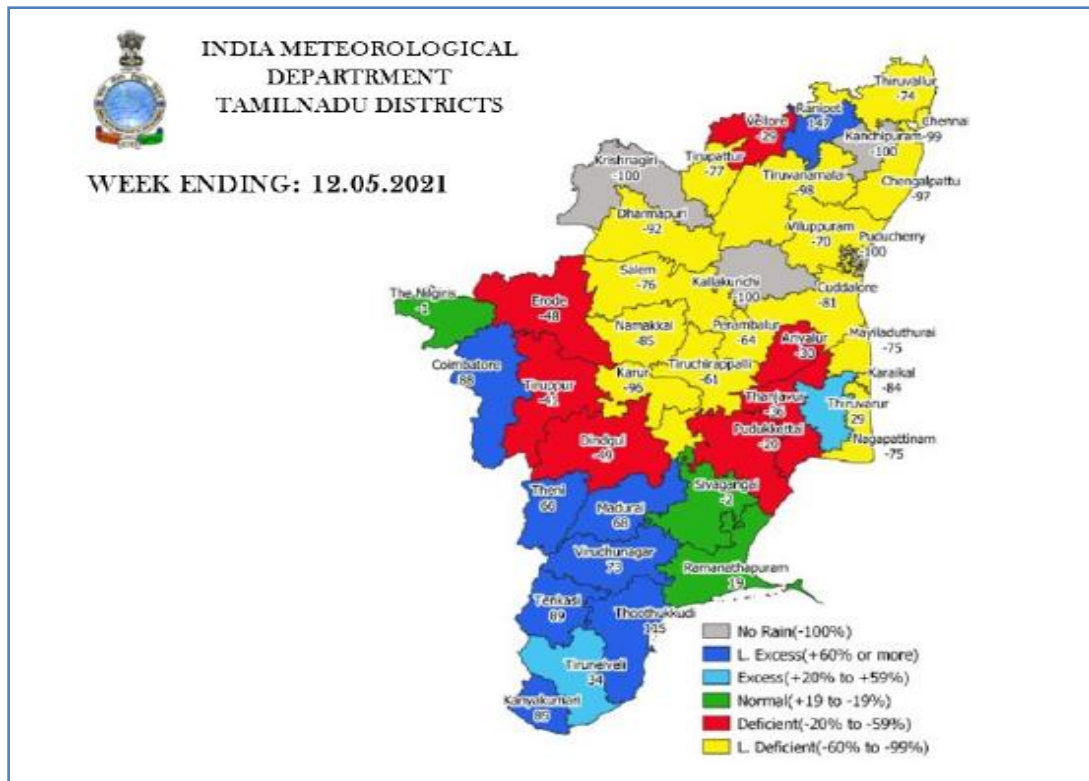


Fig.1: District-wise weekly rainfall (percentage departures from normal) during the week ending 12.05.2021

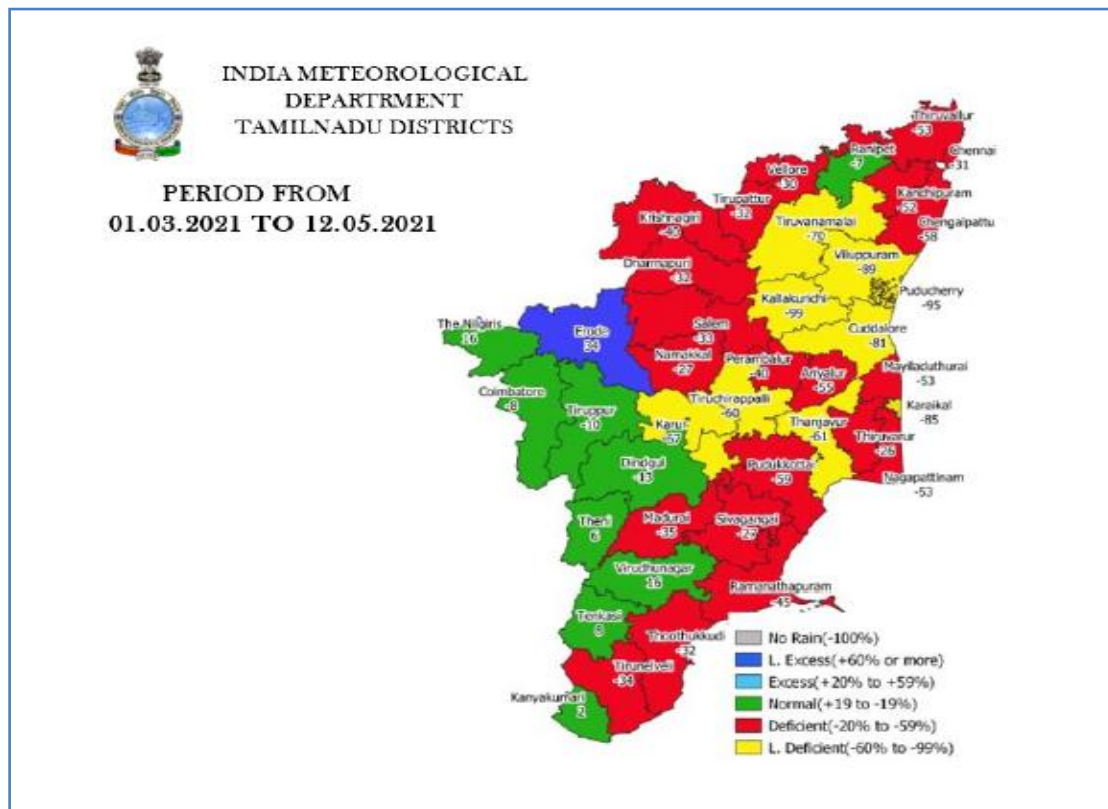
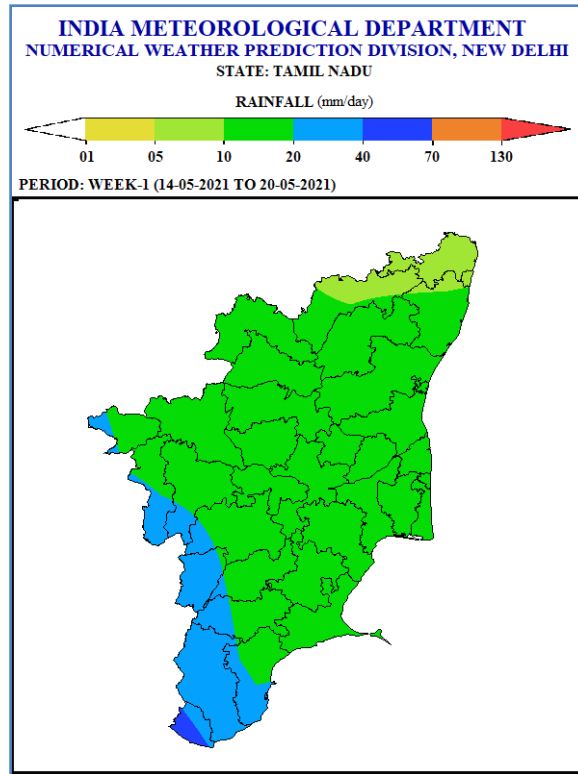
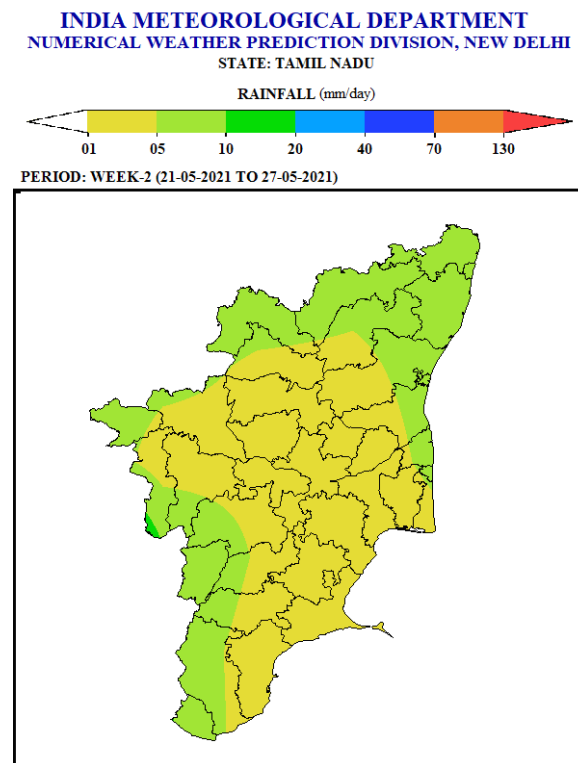


Fig.2: District-wise cumulative rainfall (percentage departures from normal) during the season 01st Mar -12th May 2021



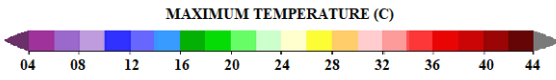
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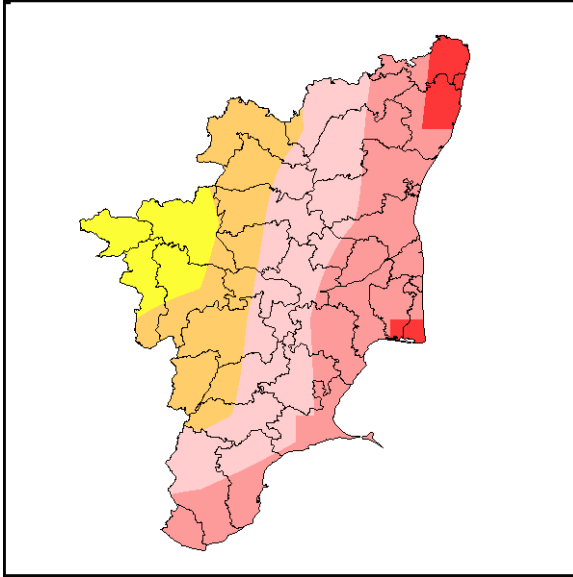
(ii)

Fig.3: Predicted rainfall during the (i) week-1 (14th-20th May 2021 and (ii) Week-2 (21st - 27th May 2021) in mm/day.

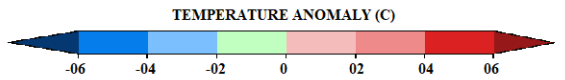
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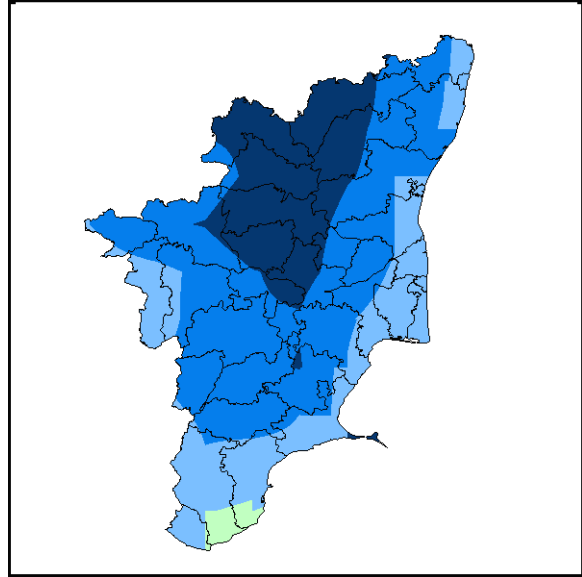
PERIOD: WEEK-1 (14-05-2021 TO 20-05-2021)



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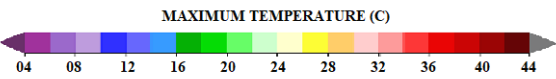


PERIOD: WEEK-1 (14-05-2021 TO 20-05-2021)

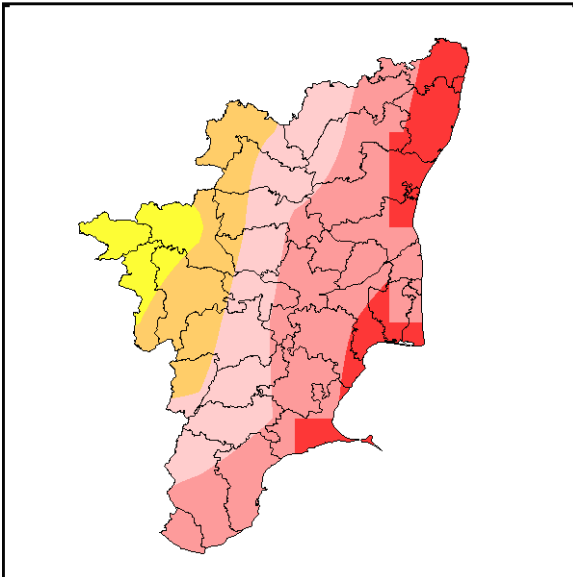


(i)

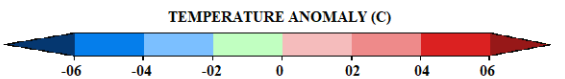
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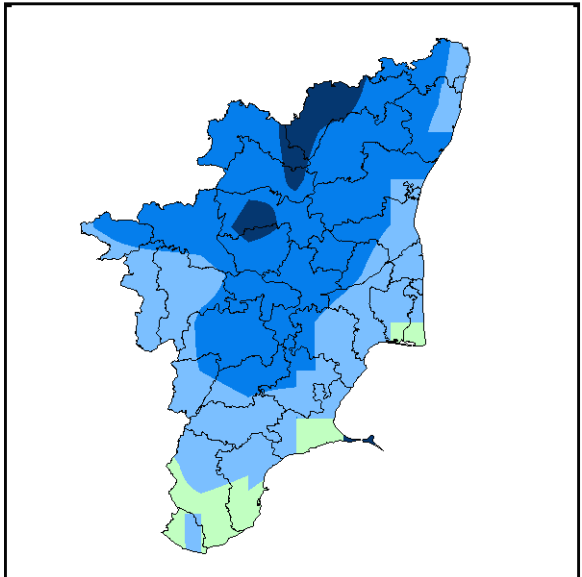
PERIOD: WEEK-2 (21-05-2021 TO 27-05-2021)



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PERIOD: WEEK-2 (21-05-2021 TO 27-05-2021)



(ii)

Fig.4: Predicted maximum temperature (°C) and its departure from the normal (°C) during the weeks (i) 14th-20th May 2021 and (ii) 21st -27th May 2021