

Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department

Press Release: Dated: 24th April, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (24th April to 07th May 2025)

1. Salient Observed Features for the week ending 23rd April 2025:

- ❖ **Status of Heat wave during the week:** Heat wave conditions continued to prevail over Rajasthan till 19th April and abated thereafter due to impact of an active WD which caused wet spell and thunderstorm activities and windy conditions over the region during 18th – 21st April. However, a fresh spell of heat wave developed over eastern parts of India from 22nd April and Heat wave to Severe Heat wave conditions prevailed over Gangetic West Bengal, Bihar, and Odisha on 22nd April and Heat wave conditions prevailed in isolated pockets of Gangetic West Bengal, Bihar, Odisha, Jharkhand, East Madhya Pradesh, Vidarbha and Telangana on 23rd April. Heat wave condition was also observed in parts of central India during 21st and 22nd April and it prevailed at isolated places East Madhya Pradesh on 21nd & 22nd April, Vidarbha, and Saurashtra & Kutch on 22nd April.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** recorded at isolated locations over Jammu-Kashmir-Ladakh and Uttarakhand on 17th & 19th – 23rd April, Himachal Pradesh and Punjab on 17th & 19th – 22nd April, Haryana on 17th & 19th – 21st April, West Rajasthan on 17th & 19th April, Gangetic West Bengal and Odisha on 17th – 23rd April, Jharkhand on 17th – 21st & 23rd April, Bihar on 17th – 20th & 23rd April, Madhya Pradesh on 17th & 19th – 23rd April, Vidarbha on 17th & 19th April, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 17th – 23rd April, Madhya Maharashtra and Marathwada on 17th April, Telangana, Kerala & Mahe and North Interior Karnataka on 17th & 20th – 23rd April, Sub-Himalayan West Bengal & Sikkim on 18th & 20th – 22nd April, Uttar Pradesh on 18th – 23rd April, Chhattisgarh on 19th – 21st & 23rd April, Arunachal Pradesh on 19th – 23rd April, Tamilnadu Puducherry & Karaikal on 20th – 23rd April, South Interior Karnataka on 20th – 22nd April, Coastal Andhra Pradesh & Yanam, and Rayalaseema on 20th & 22nd April.
- ❖ **Hailstorm** occurred at isolated places over Jammu-Kashmir-Ladakh on 17th & 19th – 22nd April, Himachal Pradesh on 17th, 19th, 21st & 22nd April, East Madhya Pradesh on 17th April, Gangetic West Bengal and East Uttar Pradesh on 18th April, Odisha on 18th – 20th April, Punjab on 19th & 22nd April, Uttarakhand,

Haryana, Jharkhand, Chhattisgarh and Vidarbha on 19th April, Tamilnadu Puducherry & Karaikal on 20th April, Telangana on 20th – 22nd April, West Uttar Pradesh on 22nd April, Madhya Maharashtra on 23rd April.

- ❖ **Heavy to very heavy rainfall** was recorded at isolated places over Tamilnadu, Puducherry & Karaikal on 17th April, Sub-Himalayan West Bengal & Sikkim on 17th & 21st April, Assam & Meghalaya on 23rd April. **Heavy rainfall** was recorded at isolated places over Odisha on 18th April, Nagaland, Manipur, Mizoram & Tripura on 18th, 21st & 22nd April, North Interior Karnataka on 19th April, Tamilnadu, Puducherry & Karaikal on 19th & 23rd April, Kerala & Mahe on 19th April, Jammu-Kashmir-Ladakh on 20th April, Rayalaseema on 21st April, Sub-Himalayan West Bengal & Sikkim, and Assam & Meghalaya on 22nd April, Arunachal Pradesh on 23rd April.
- ❖ **Weekly Average Minimum temperature** was above normal by 2-4°C over parts of north, northwest and central India, and nearly normal over remaining parts of the country during first half of the week. It was above normal by 1-3° C over east & northeast India, parts of Konkan & Goa and Maharashtra, and nearly normal over remaining parts of the country during the second half of the week. **Weekly Average Maximum temperature** was above normal by 2-5° C over parts of north, west and northeast India, and below normal by 2-5°C over parts of east India, and nearly normal over remaining parts of the country during first half of the week. It was above normal by 1-3°C over parts of west, central and east India, and nearly normal over remaining parts of the country during second half of the week.
- ❖ **Temperature Scenario:** The lowest minimum temperature of **16.2°C** had been recorded at **Hamirpur (East Uttar Pradesh)** on **17 April, 2025** and the highest maximum temperature of **46.2°C** had been recorded at **Jharsuguda (Odisha)** on **22 April, 2025** over the plains of the country during the week.
- ❖ **Analysis of weekly overall rainfall distribution during the week-ending on 23rd April and the Pre-Monsoon Season's Rainfall Scenario (01.03.2025 to 23.04.2025):** The country as a whole, the weekly cumulative All India Rainfall (for 17 – 23 April 2025) in % departure from its long period average (LPA) is +25%. All India Seasonal cumulative rainfall % departure during this year's Pre-Monsoon Season Rainfall (01st March to 23rd April 2025) is -15%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1, and Meteorological sub-division-wise rainfall for week and season are given in Annexure I & II, respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	17.04.2025 TO 23.04.2025			01.03.2025 TO 23.04.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	31.1	31.3	-1%	101.0	148.2	-32%
NORTHWEST INDIA	15.5	7.2	+115%	51.1	72.7	-30%
CENTRAL INDIA	2.4	2.5	-3%	15.3	14.5	+6%
SOUTH PENINSULA	9.3	9.3	0%	65.4	39.7	+65%
THE COUNTRY AS A WHOLE	12.3	9.9	+25%	49.8	58.7	-15%

2. Large scale features:

- ❖ Over the equatorial Pacific Ocean, sea surface temperatures (SSTs) are above average in the eastern and far western Pacific Ocean. Below-average SSTs were evident in the central Pacific Ocean. The El Niño-Southern Oscillation (ENSO) is transitioning from weak La Niña conditions to an ENSO-neutral state. The neutral ENSO conditions are expected to persist in the coming month, with a transition to ENSO-neutral likely occurring between March and May 2025.
- ❖ Below-average sea surface temperatures (SSTs) are currently seen in some parts of the western Indian Ocean. Currently, neutral Indian Ocean Dipole (IOD) conditions are observed over the Indian Ocean. The latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue for the next several months
- ❖ The Madden Julian Oscillation (MJO) index is currently in Phase 7 with an amplitude > 1. It is likely to remain in Phase 7 for the entire duration of Week 1, with amplitude > 1. During the start of Week 2, it is likely to propagate to Phase 8, with amplitude > 1, and is likely to remain in Phase 8 for the remaining duration of Week 2, with amplitude becoming < 1.

3. Forecast for the next two weeks

[Weather systems & associated Precipitation during Week 1 \(24 to 30 April, 2025\) and Week 2 \(1 to 7 May, 2025\)](#)

[Weather systems & associated Precipitation during Week 1 \(24 to 30 April, 2025\):](#)

- ❖ An upper air cyclonic circulation lies over north Bangladesh and another over northeast Assam in lower tropospheric levels. A north-south trough runs from central Chhattisgarh to Gulf of Mannar in lower tropospheric levels.
- ❖ Under the influence of these systems:
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Northeast India during next 7 days.
 - ✓ **Heavy rainfall** likely over Assam & Meghalaya, Arunachal Pradesh during 24th-27th; over Nagaland, Mizoram & Tripura during 24th-26th with **very heavy rainfall** over Arunachal Pradesh on 24th and over Assam & Meghalaya on 24th & 26th April.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamilnadu Puducherry & Karaikal during next 7 days.
 - ✓ **Isolated heavy rainfall** over Kerala on 24th, 28th & 29th and Tamil Nadu on 24th April.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph** likely over East India and East Uttar Pradesh during 26th-29th April.
 - ✓ **Isolated hailstorm** activity likely over Jharkhand on 27th & 28th and Odisha on 28th April.
 - ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over Bihar during 26th-28th and Gangetic West Bengal, Vidarbha, Chhattisgarh, East Madhya Pradesh on 27th & 28th and South Interior Karnataka on 27th April.
 - ✓ **Isolated heavy rainfall** over Sikkim on 26th & 27th with **very heavy rainfall** on 26th April.
- ❖ A fresh Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 69°E to the north of Lat. 31°N. Under its influence;
 - ✓ **Isolated to scattered** light rainfall with **thunderstorm & lightning** likely over Western Himalayan Region during 24th-26th April.
- ❖ No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (1 to 7 May, 2025):

- ❖ Under the influence of western disturbances, isolated to scattered rainfall is likely over Western Himalayan Region during some days of the week.
- ❖ Due to trough/cyclonic circulations over East India, light/moderate scattered to fairly widespread rainfall along with thunderstorm & lightening are likely over

east & northeast India during some/many days of the week. Isolated heavy rainfall is also likely over northeast India during some days of the week.

- ❖ Due to trough/cyclonic circulations over Central & Peninsular India, Light/moderate rainfall along with thunderstorm & lightening also likely over central & south Peninsular India during many days of the week.
- ❖ Overall, normal to above normal rainfall along with thunderstorm & lightening are likely over many parts of plains of northwest India, Central, East & northeast and South Peninsular India; below normal over Western Himalayan Region during the week.

Temperature forecast & heat wave warning for Week 1 (24 to 30 April, 2025) and Week 2 (1 to 7 May, 2025)

Temperature forecast & heat wave warning for Week 1 (24 to 30 April, 2025):

- ❖ **Maximum temperatures** were in the range of 40-45°C at many/some stations over interior Maharashtra, Gujarat, west & southeast Rajasthan, Madhya Pradesh, East Uttar Pradesh, Bihar, North Chhattisgarh, interior Odisha, northwest Jharkhand, Telangana, Rayalaseema and North interior Karnataka. Yesterday, the highest **maximum temperature of 45.6°C** was reported at **Brahmapuri (Vidarbha)** over the country.
- ❖ Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Gujarat state, Vidarbha, Jharkhand, Telangana, Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at most places over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Chhattisgarh, Madhya Maharashtra; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Odisha, Bihar, Konkan & Goa, Marathwada; at a few places over Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka, Coastal Karnataka; at isolated places over Kerala & Mahe

Forecast of temperature:

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Punjab, Haryana Chandigarh & Delhi, Rajasthan during next 6 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Uttar Pradesh during next 3 days and fall by 2-3°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over Gujarat during next 3 Days and rise by 2-3°C for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over East India & adjoining Central India during next 3 days and fall by 3-5°C for subsequent 4 days.

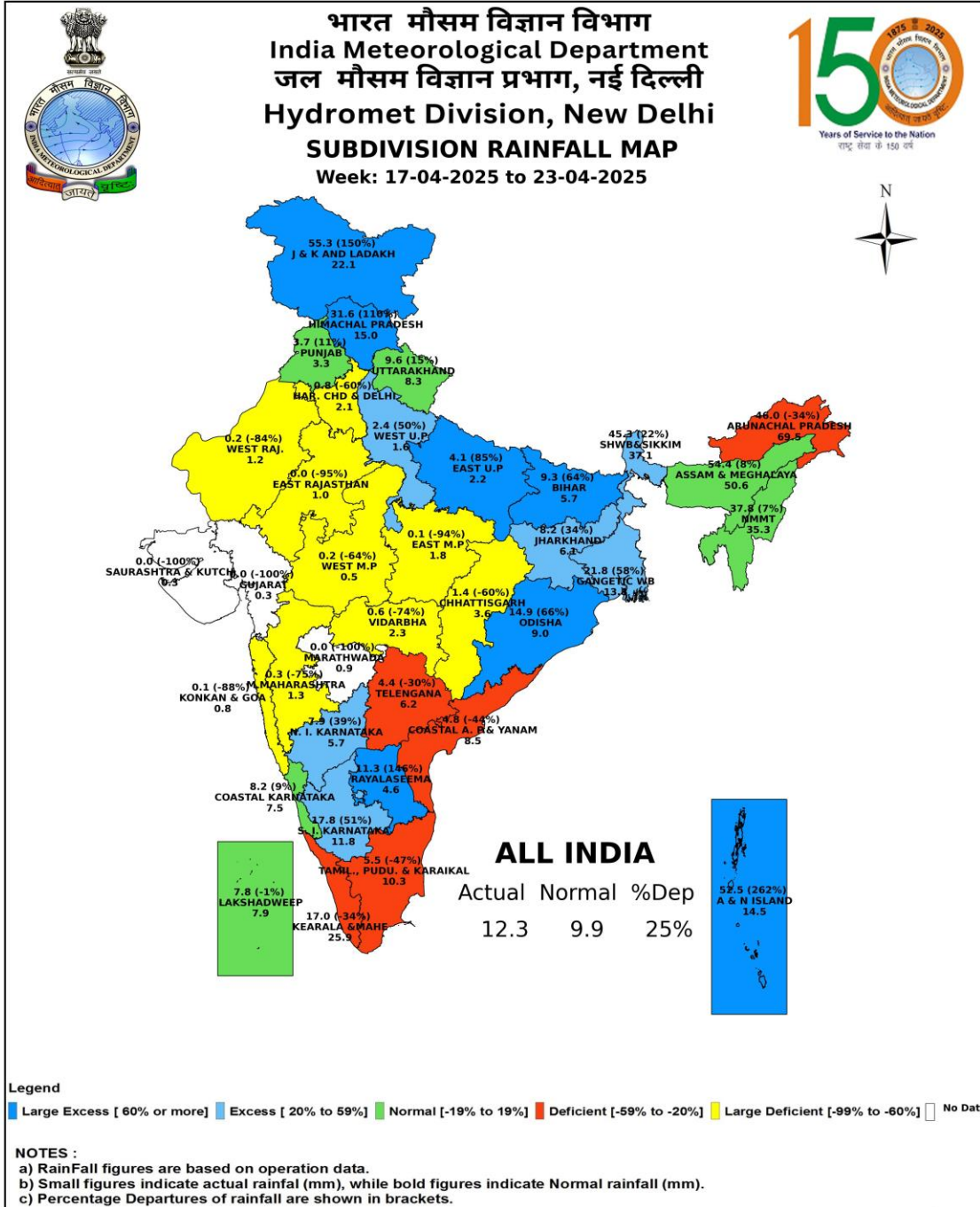
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

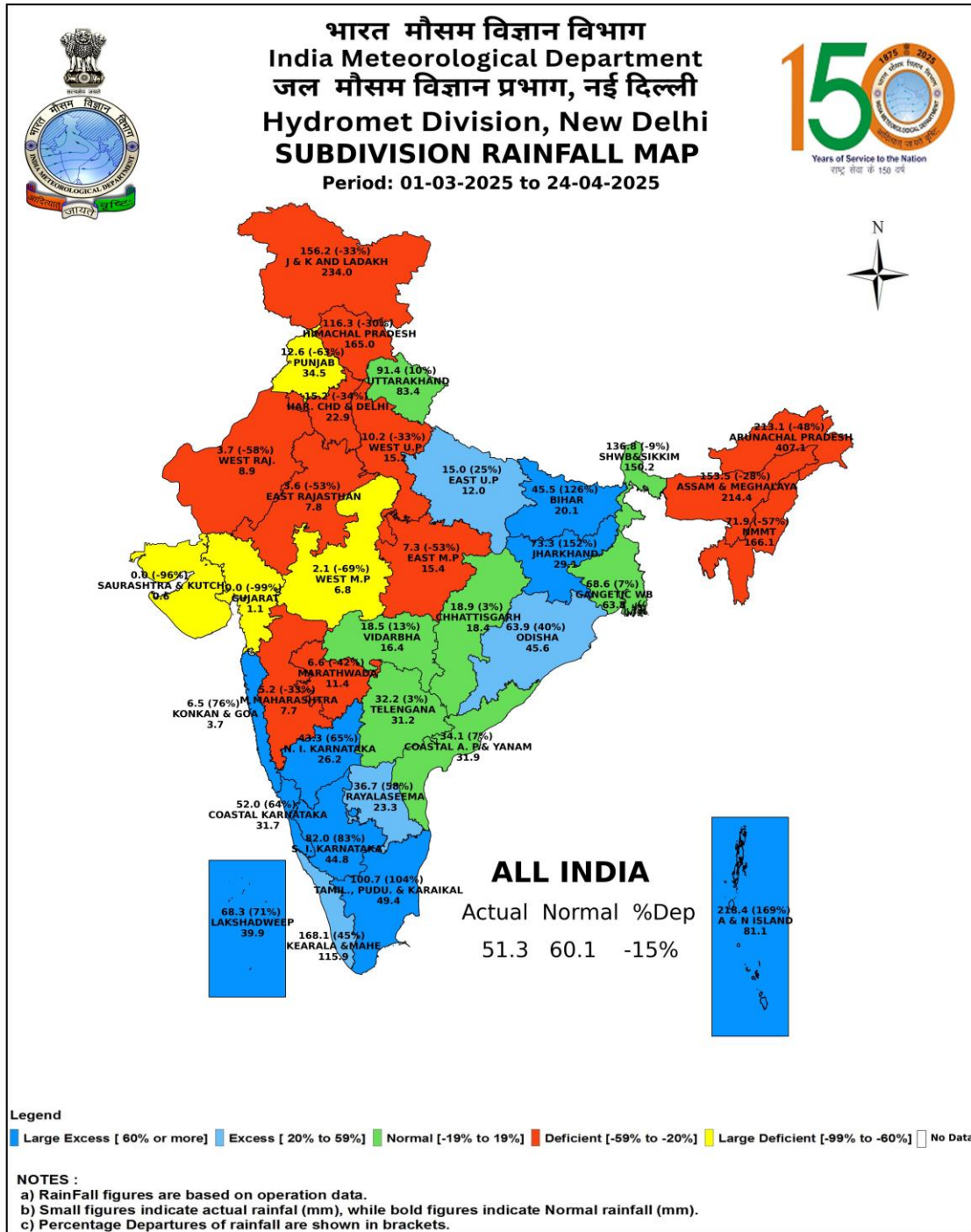
Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets over West Madhya Pradesh during 24th-30th; Rajasthan during 25th-30th; East Madhya Pradesh during 24th-27th; Uttar Pradesh, Vidarbha, Bihar, Odisha, Jharkhand, West Bengal during 24th-26th; Punjab, Haryana during 25th-29th; Chhattisgarh, Telangana, Madhya Maharashtra and Marathwada on 24th & 25th April.
- ❖ **Warm night conditions** very likely in isolated pockets over Gangetic West Bengal, Odisha on 24th & 25th; Bihar, Telangana on 24th April.
- ❖ **Hot & humid weather** is likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema during 24th-26th; Gujarat State on 24th & during 27th-30th April.

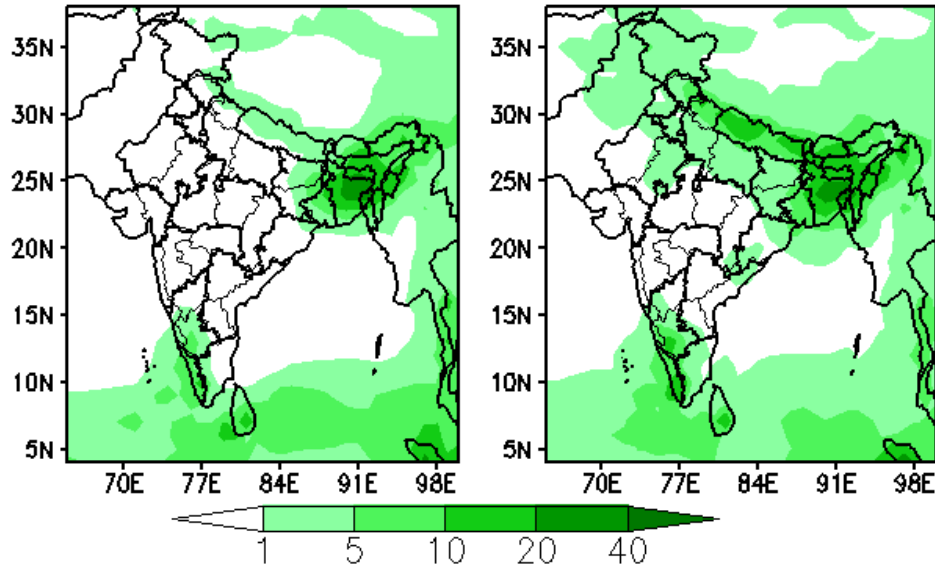
Temperature forecast & heat wave warning for Week 2 (1 to 7 May, 2025):

- ❖ Maximum temperatures are likely to be above normal by 1-3°C over parts of Western Himalayan Region and northeast India, Rajasthan, Gujarat and Odisha. These are likely to be near normal or below normal over rest parts of the country.
- ❖ There is a low probability of heat wave conditions over /isolated pockets of Gujarat state and Rajasthan & adjoining West Madhya Pradesh during some days of the week.

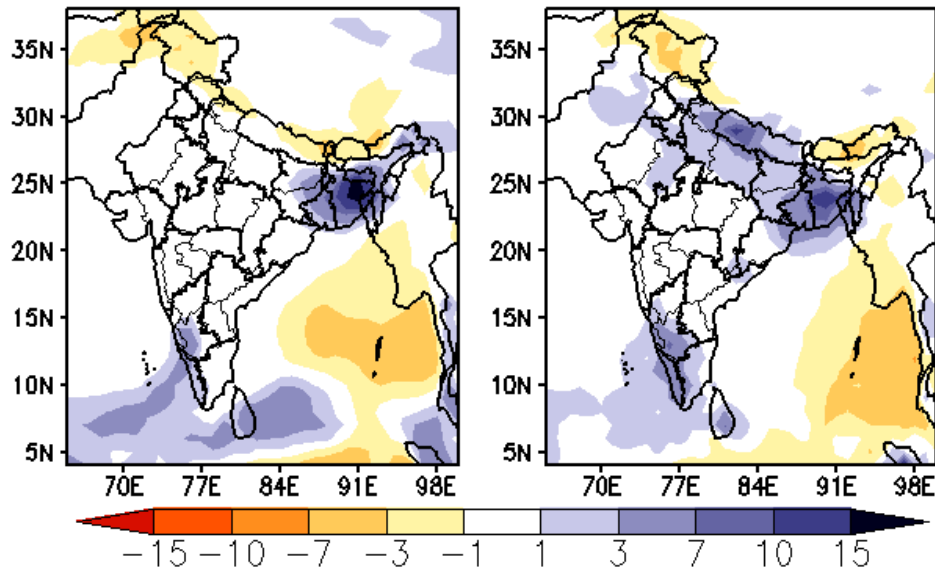




Forecast Rainfall (mm/day) (00Z=0530 hrs IST)
(Week1:00Z24Apr-00Z01May) (Week2:00Z01May-00Z08May)



Forecast Rainfall Anomaly (mm/day) (00Z=0530 hrs IST)
(Week1:00Z24Apr-00Z01May) (Week2:00Z01May-00Z08May)

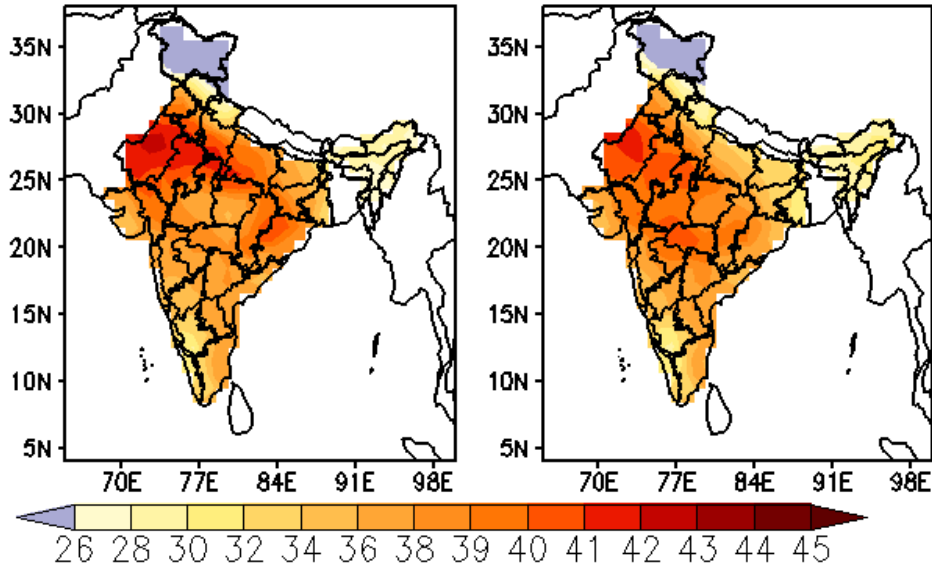


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

(Week1: 25Apr-01May)

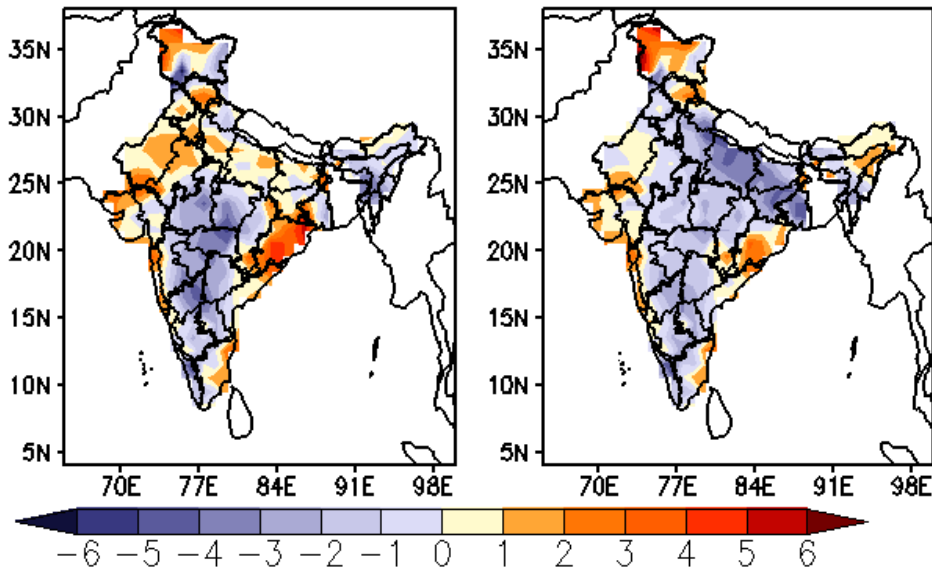
(Week2: 02May-08May)



MME forecast Tmax anomaly (Deg C)

(Week1: 25Apr-01May)

(Week2: 02May-08May)

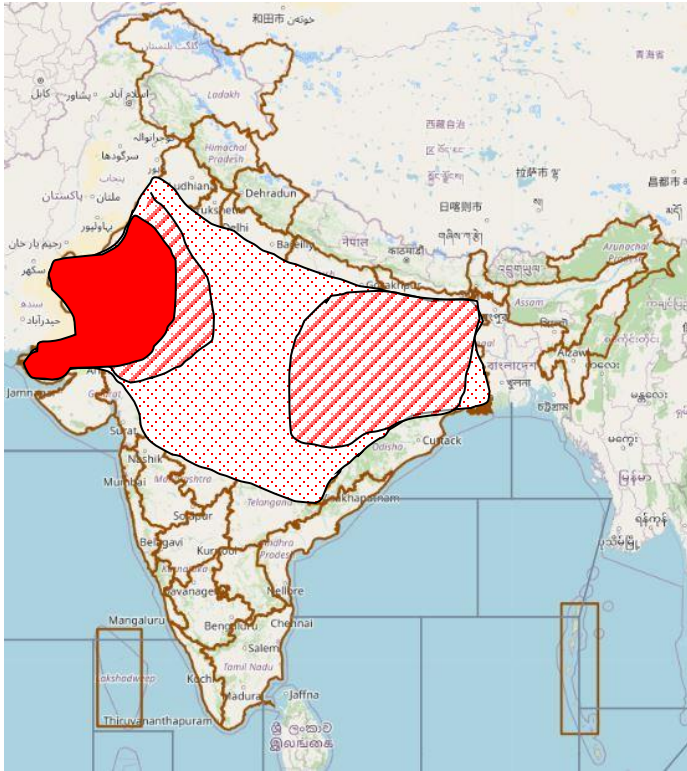


Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

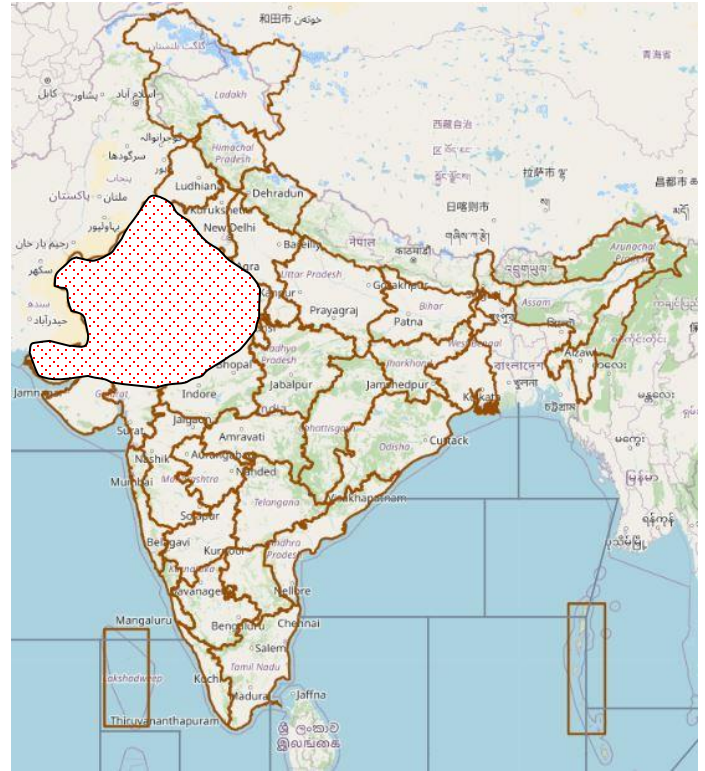
Heat Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Week1: 25.04.2025- 01.05.2025



Week2: 02.05.2025- 08.05.2025



PROBABILITY OF HEATWAVE CONFIDENCE

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)

