



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

**Press Release: Dated: 27<sup>th</sup> March, 2025**

**Subject: Current Weather Status and Extended range Forecast for the next two weeks (27<sup>th</sup> March to 09<sup>nd</sup> April 2025)**

**1. Salient Observed Features for the week ending 26<sup>th</sup> March 2025:**

- ❖ **A major wet spell accompanied with moderate to severe thunderstorm activities** observed over east central India including Gangetic West Bengal, Odisha, Jharkhand and Chhattisgarh during 18-23 March, 2025 due to north-south lower level wind convergence over the region. These thunderstorm activities caused lightning and isolated hailstorm over these areas including Odisha during most of the days.
- ❖ **Thunderstorm with lightning** recorded at isolated places over Gangetic West Bengal from 20<sup>th</sup> to 24<sup>th</sup> March, Himachal Pradesh on 20<sup>th</sup> & 22<sup>nd</sup> March, Uttarakhand from 20<sup>th</sup> to 23<sup>rd</sup> March, East Uttar Pradesh from 20<sup>th</sup> to 23<sup>rd</sup> March, East Madhya Pradesh on 20<sup>th</sup> & 22<sup>nd</sup> March, Kerala & Mahe on 20<sup>th</sup> & 23<sup>rd</sup> to 26<sup>th</sup> March, Assam & Meghalaya from 21<sup>st</sup> to 25<sup>th</sup> March, Nagaland, Manipur, Mizoram & Tripura on 21<sup>st</sup>, 24<sup>th</sup> & 25<sup>th</sup> March, Odisha from 21<sup>st</sup> to 25<sup>th</sup> March, Bihar and Jharkhand from 21<sup>st</sup> to 24<sup>th</sup> March, Jammu-Kashmir-Ladakh West Rajasthan and Marathawada on 21<sup>st</sup> March, Sub-Himalayan West Bengal & Sikkim from 22<sup>nd</sup> to 24<sup>th</sup> March, Vidarbha on 22<sup>nd</sup> March, Chhattisgarh on 22<sup>nd</sup> & 24<sup>th</sup> March, West Uttar Pradesh on 23<sup>rd</sup> March, Telangana from 23<sup>rd</sup> to 25<sup>th</sup> March, Rayalaseema on 23<sup>rd</sup> & 26<sup>th</sup> March, Tamilnadu Puducherry & Karaikal from 23<sup>rd</sup> to 25<sup>th</sup> March, Lakshadweep on 23<sup>rd</sup> & 26<sup>th</sup> March, Arunachal Pradesh on 24<sup>th</sup> & 25<sup>th</sup> March, North Interior Karnataka from 24<sup>th</sup> to 26<sup>th</sup> March, South Interior Karnataka, Coastal Karnataka, Konkan & Goa and Madhya Maharashtra on 26<sup>th</sup> March.
- ❖ **Hailstorms** reported at isolated locations over Jharkhand from 20<sup>th</sup> to 23<sup>rd</sup> March, East Madhya Pradesh, Chhattisgarh and Gangetic West Bengal on 21<sup>st</sup> & 22<sup>nd</sup> March, Odisha from 21<sup>st</sup> to 23<sup>rd</sup> March, Assam & Meghalaya on 21<sup>st</sup> & 24<sup>th</sup> March, Vidarbha on 22<sup>nd</sup> March, Telangana from 22<sup>nd</sup> to 25<sup>th</sup> March, Uttarakhand, Rayalaseema and South Interior Karnataka on 23<sup>rd</sup> March, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 24<sup>th</sup> March, North Interior Karnataka on 25<sup>th</sup> & 26<sup>th</sup> March.
- ❖ **Squally/Gusty winds 40-60** recorded at isolated locations over Uttar Pradesh on 23<sup>rd</sup>; Gangetic West Bengal, Bihar, Jharkhand, Odisha during 21<sup>st</sup>-23<sup>rd</sup>;

Himachal Pradesh on 17<sup>th</sup>, 20<sup>th</sup> & 21<sup>st</sup>; Arunachal Pradesh, Assam & Meghalaya on 17<sup>th</sup> & 18<sup>th</sup>; during 21<sup>st</sup>-24<sup>th</sup> March.

- ❖ **Heavy to very heavy rainfall** was recorded at isolated places over Odisha on 22<sup>nd</sup> March. **Heavy rainfall** was observed at isolated places over East Madhya Pradesh on 21<sup>st</sup> March, Tamil Nadu on 22<sup>nd</sup> & 25<sup>th</sup> March, Kerala on 22<sup>nd</sup> & 23<sup>rd</sup> March, Odisha on 23<sup>rd</sup> March; Coastal Andhra Pradesh on 24<sup>th</sup> March.
- ❖ **Two Western Disturbances (WDs; 20-25 & 23-26 March)** moved across northern parts of India during the week. First WD caused light to moderate rainfall/snowfall over Jammu & Kashmir on 20<sup>th</sup> & 21<sup>st</sup> March, Himachal Pradesh from 20<sup>th</sup> to 22<sup>nd</sup> March, Uttarakhand from 21<sup>st</sup> to 23<sup>rd</sup> March. Second WD caused light to moderate rainfall/snowfall over Jammu & Kashmir and Himachal Pradesh on 26<sup>th</sup> March.
- ❖ **Weekly Average Minimum temperature** was above normal by 1-3°C over parts of west, central and eastern India, and nearly normal over remaining parts of the country during the first half of the week. It was above normal by 1-3°C over parts of north and west India, and nearly normal over remaining parts of the country during the second half of the week. **Weekly Average Maximum temperature** was below normal by 2-4°C over east and northeast India and above normal by 1-3°C over north and west India during first half of the week. It was above normal by 1-3°C over north, west, central, east and northeast India during the second half of the week. The weekly averaged maximum temperature was nearly normal over south peninsular India during this week.
- ❖ **Temperature Scenario:** The lowest minimum temperature of **10.8°C** had been recorded at **Adampur (Punjab)** on **21 March, 2025** and the highest maximum temperature of **42.0°C** had been recorded at **Akola (Vidarbha)** on **26 March, 2025** over the plains of the country during the week.
- ❖ **Analysis of weekly overall rainfall distribution during the week-ending on 26<sup>th</sup> March and Pre-Monsoon Season's Rainfall Scenario (01.03.2025 to 26.03.2025):** The country as a whole, the weekly cumulative All India Rainfall (for 20<sup>th</sup> to 26<sup>th</sup> March 2025) in % departure from its long period average (LPA) is -32%. All India Seasonal cumulative rainfall % departure during this year's Pre-Monsoon Season Rainfall (01<sup>st</sup> to 26<sup>th</sup> March 2025) is -24%. 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		
	06.03.2025 TO 12.03.2025			01.03.2025 TO 12.03.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)

<b>EAST &amp; NORTHEAST INDIA</b>	<b>11.5</b>	<b>15.9</b>	<b>-28%</b>	<b>34.0</b>	<b>45.4</b>	<b>-25%</b>
<b>NORTHWEST INDIA</b>	<b>0.3</b>	<b>11.6</b>	<b>-97%</b>	<b>26.7</b>	<b>42.3</b>	<b>-37%</b>
<b>CENTRAL INDIA</b>	<b>4.6</b>	<b>1.1</b>	<b>+321%</b>	<b>4.7</b>	<b>6.8</b>	<b>-32%</b>
<b>SOUTH PENINSULA</b>	<b>7.3</b>	<b>4.1</b>	<b>+79%</b>	<b>19.2</b>	<b>13.3</b>	<b>+45%</b>
<b>THE COUNTRY AS A WHOLE</b>	<b>4.9</b>	<b>7.2</b>	<b>-32%</b>	<b>19.0</b>	<b>25.1</b>	<b>-24%</b>

## 2. Large scale features:

- ❖ Over the equatorial Pacific Ocean, sea surface temperatures (SSTs) are below average in most of the central and east-central Pacific Ocean. The weak La Niña conditions are present over Pacific and are expected to persist through the February to March (FMA) season. After that, a transition to ENSO-neutral conditions is likely.
- ❖ Near-average sea surface temperatures (SSTs) are currently seen across most of the 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 turn to negative IOD conditions for a short period of time.
- ❖ The Madden Julian Oscillation (MJO) index is currently in Phase 6 with an amplitude near 1. It is likely to migrate to Phase 7 during the first half of Week 1, with amplitude remaining near 1, and will remain in Phase 7 for the remaining days of Week 1. By the start of Week 2, it is likely to migrate to Phase with amplitude becoming > 1. It will remain in Phase 8 for the remaining days of Week 2.

## 3. Forecast for the next two weeks

### Weather systems & associated Precipitation during Week 1 (27 March to 02 April, 2025) and Week 2 (03 to 09 April, 2025)

### Weather systems & associated Precipitation during Week 1 (27 March to 02 April, 2025):

- ❖ A Western Disturbance as a trough in lower to upper tropospheric levels runs roughly along Long. 62°E to the north of Lat. 25°N. A cyclonic circulation lies over central Pakistan & neighbourhood and another over northeast Assam in lower tropospheric levels. Under their influence:
  - ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and accompanied

with **thunderstorm, lightning** over Uttarakhand, Himachal Pradesh on 27<sup>th</sup> March.

- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim on 28<sup>th</sup> & 29<sup>th</sup> March.
  - ✓ **Strong Surface winds (25-35 kmph)** very likely at isolated places over Punjab, West Uttar Pradesh, Haryana, Chandigarh on 27<sup>th</sup> & 28<sup>th</sup> March.
  - ✓ **Dust raising winds (20-30 kmph)** very likely at isolated places over West Rajasthan on 27<sup>th</sup> & 28<sup>th</sup> March.
  - ✓ **Heavy rainfall/snowfall** likely at isolated places over Arunachal Pradesh on 28<sup>th</sup> & 29<sup>th</sup> March.
- ❖ A north-south trough runs from north Madhya Maharashtra to north Kerala across interior Karnataka in lower tropospheric levels. Under its influence:
- ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-50 kmph)** likely over Madhya Maharashtra, North Interior Karnataka on 29<sup>th</sup> & 30<sup>th</sup>, Konkan & Goa on 29<sup>th</sup>; Marathwada on 30<sup>th</sup>; Kerala & Mahe, South Interior Karnataka during 27<sup>th</sup> -31<sup>st</sup>; Coastal Karnataka, Coastal Andhra Pradesh & Yanam on 27<sup>th</sup>, 30<sup>th</sup> & 31<sup>st</sup> March.
- ❖ No significant weather likely over rest parts of the country during the week.

#### **Precipitation for week 2 (03 to 09 April, 2025):**

- ❖ Under the influence of western disturbances, scattered to fairly widespread rainfall/snowfall is likely over Western Himalayan Region during some days of the week.
- ❖ Light/moderate isolated to scattered rainfall is likely over northeast India and Peninsular & adjoining central India during some to many days of the week.
- ❖ Overall, rainfall is likely to be above normal over south Peninsular India and below normal over rest parts of the country during the week.

#### **Temperature forecast & heat wave warning for Week 1 (27 March to 02 April, 2025) and Week 2 (03 to 09 April, 2025)**

#### **Temperature forecast & heat wave warning for Week 1 (27 March to 02 April, 2025):**

Maximum Temperature Departures (as on 26-03-2025): Maximum Temperatures were **markedly above normal (5.1°C or more)** at many places over Haryana Chandigarh-Delhi; at isolated places over Punjab, Rajasthan, West Madhya

Pradesh, Arunachal Pradesh, Assam & Meghalaya, Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at many places over East Uttar Pradesh; at a few places over Uttarakhand; at isolated places over East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Himachal Pradesh, Sub Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Bihar, Vidarbha; at a few places over Odisha, Marathwada; at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Gujarat Region. These were **below normal (-3.0°C to -1.6°C)** at isolated places over Telangana and near normal over rest parts of the country.

### **Forecast of temperature:**

#### **Maximum temperature:**

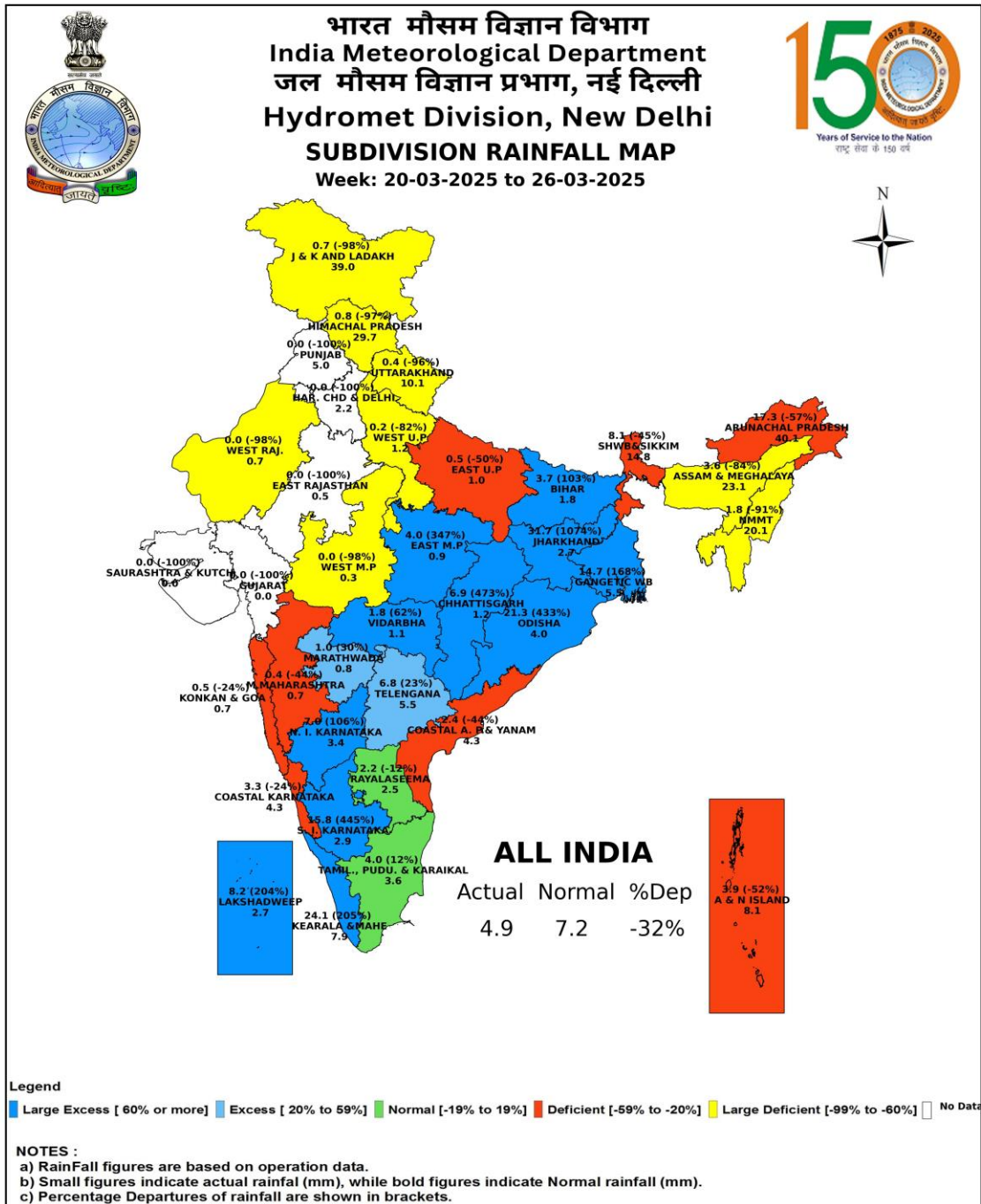
- ❖ Gradual fall in maximum temperatures by 3-5°C likely over Northwest India during next 3 days and rise by 2-3°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over East India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures over Gujarat state during next 3 days and rise by 2-3°C thereafter.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Central India during next 3 days and no significant change thereafter.

#### **Heat wave and Hot & Humid weather warning:**

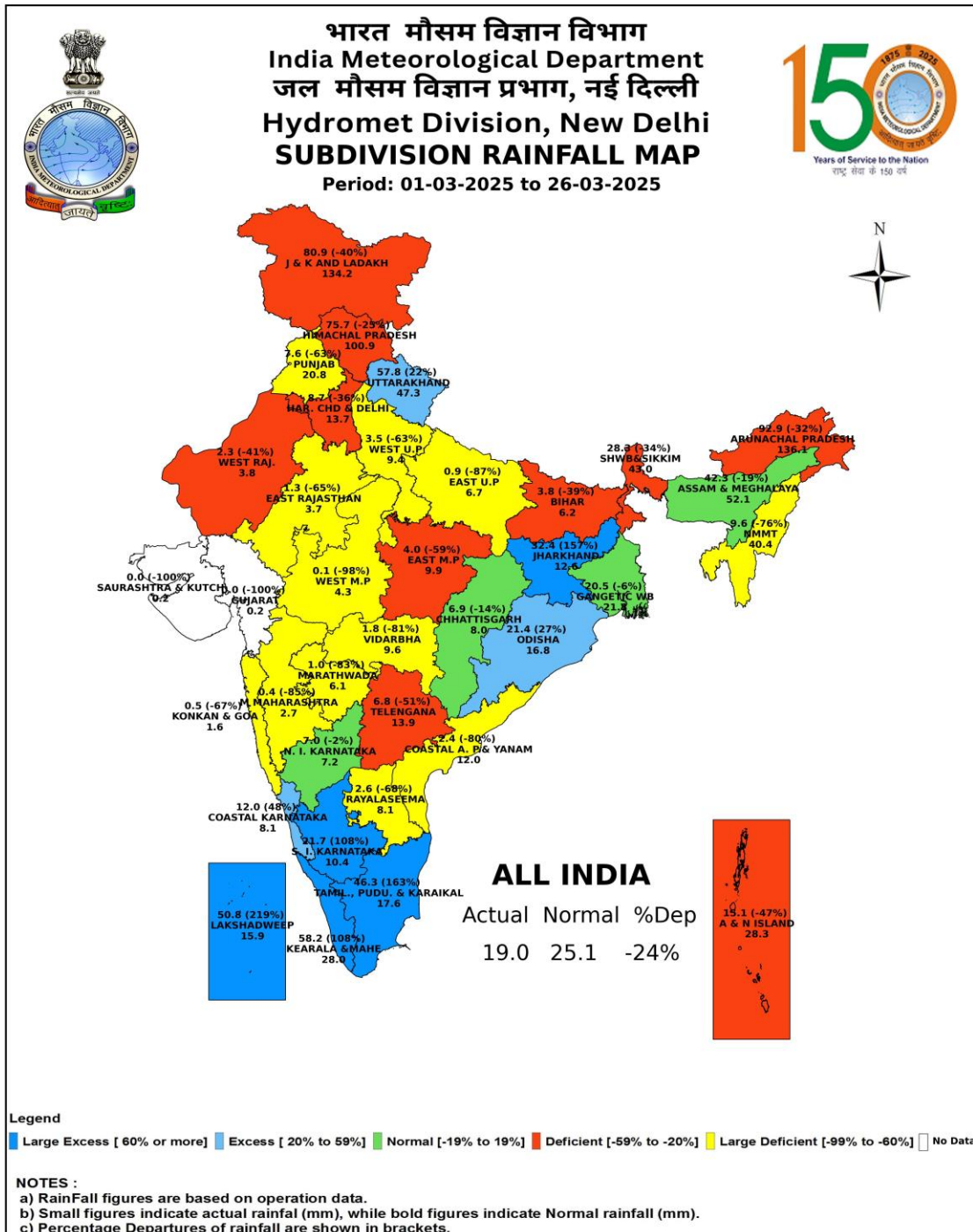
- ❖ Heat wave conditions very likely in isolated pockets of interior Odisha during 28<sup>th</sup>-30<sup>th</sup> March.
- ❖ Hot & humid weather conditions very likely to prevail in isolated pockets of Coastal Andhra Pradesh & Yanam on 28<sup>th</sup> & 29<sup>th</sup>; coastal areas of Gujarat during 29<sup>th</sup>-31<sup>st</sup> March.

### **Temperature forecast & heat wave warning for Week 2 (03 to 09 April, 2025):**

- ❖ Maximum temperatures are likely to be above normal by 2-3°C over most parts of northwest India and northeast India; and by 2-4°C over most parts of East India; near normal over rest parts of the country.
- ❖ There is a low to moderate probability of heatwave conditions over interior Odisha, adjoining Chhattisgarh and northern parts of Coastal Andhra Pradesh during some days of the week 2.
- ❖ Minimum temperatures are likely to be below normal or near normal over most parts of the country.







**Legend**

■ Large Excess [ 60% or more]  
 ■ Excess [ 20% to 59%]  
 ■ Normal [-19% to 19%]  
 ■ Deficient [-59% to -20%]  
 ■ Large Deficient [-99% to -60%]  
  No Data

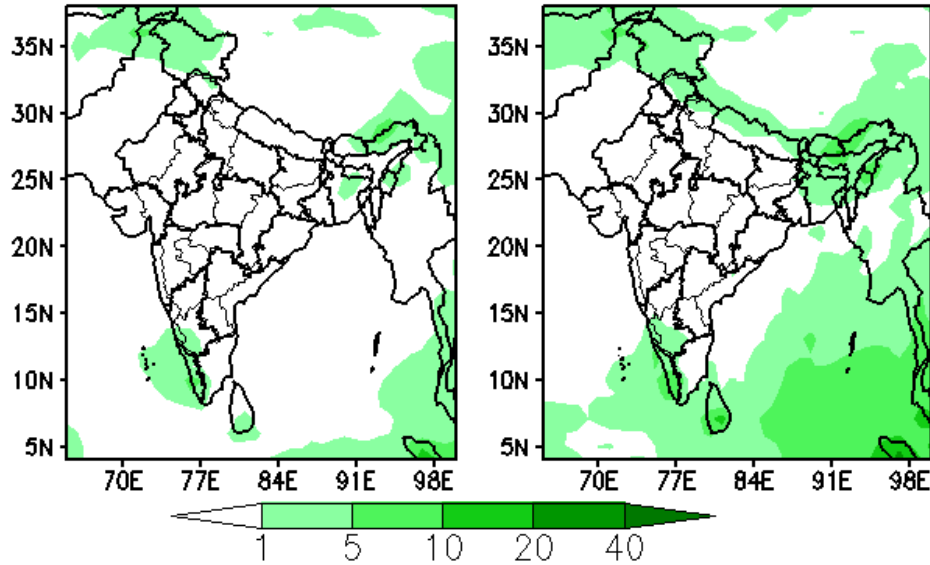
**NOTES :**

a) RainFall figures are based on operation data.

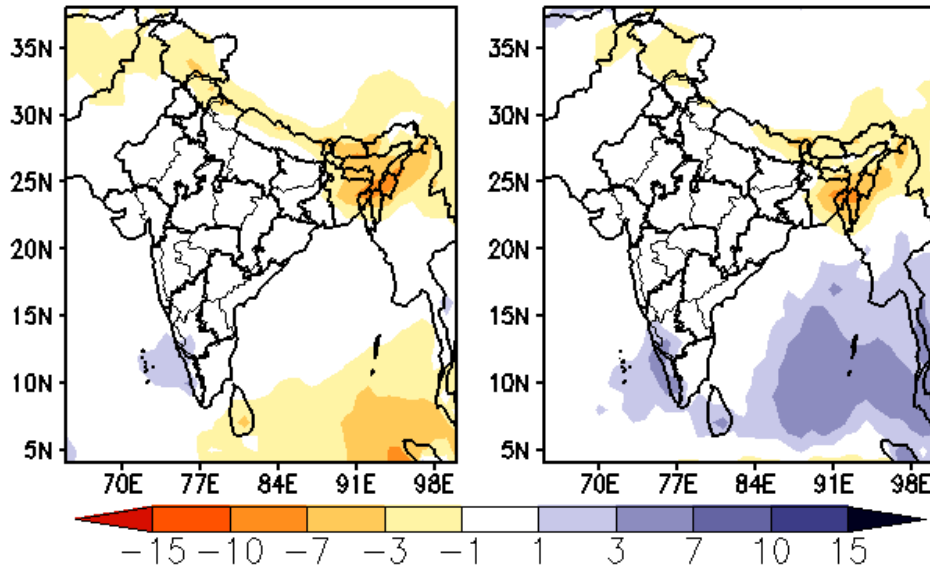
b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).

c) Percentage Departures of rainfall are shown in brackets.

**Forecast Rainfall (mm/day)** (00Z=0530 hrs IST)  
(Week1:00Z27Mar-00Z03Apr) (Week2:00Z03Apr-00Z10Apr)



**Forecast Rainfall Anomaly (mm/day)** (00Z=0530 hrs IST)  
(Week1:00Z27Mar-00Z03Apr) (Week2:00Z03Apr-00Z10Apr)



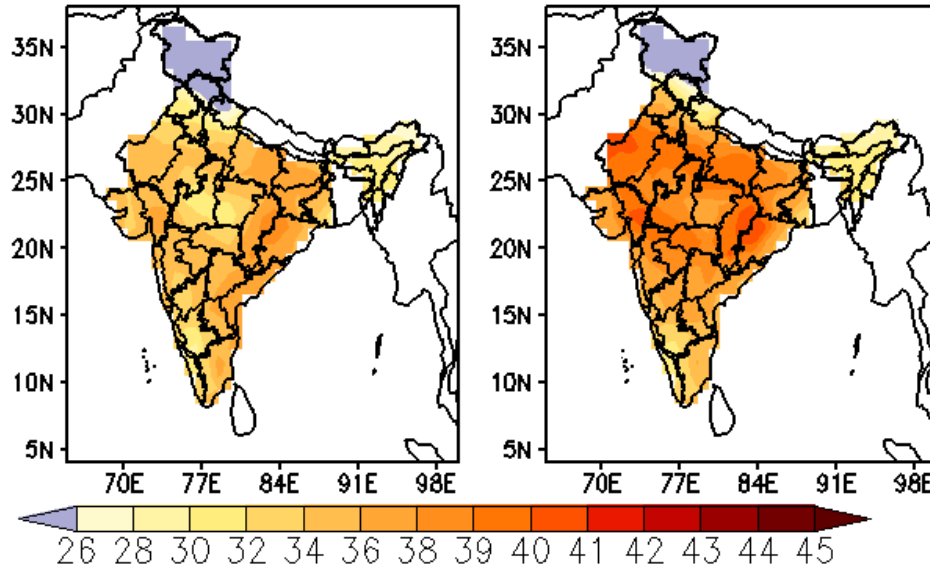
Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME



**MME Bias corrected forecast Tmax (Deg C)**

(Week1: 28Mar-03Apr)

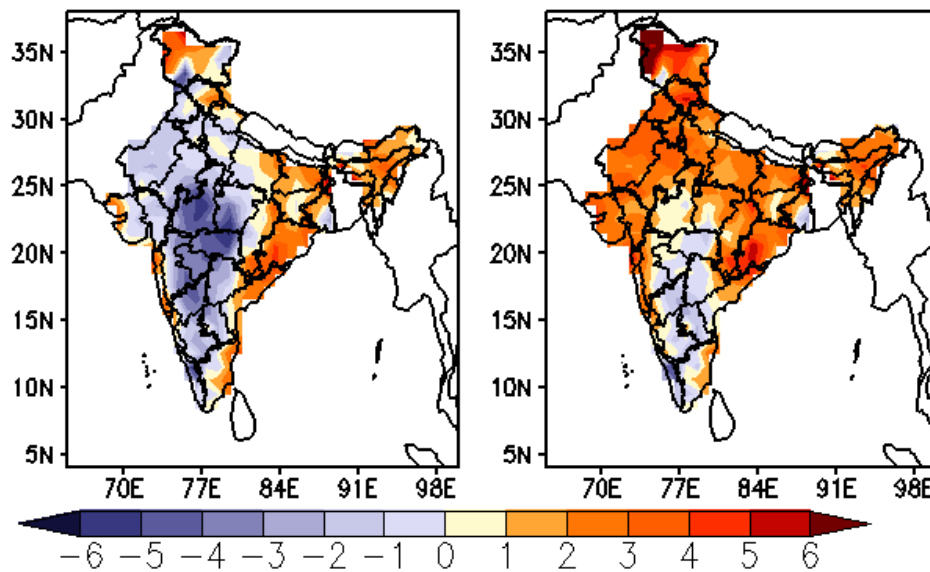
(Week2: 04Apr-10Apr)



**MME forecast Tmax anomaly (Deg C)**

(Week1: 28Mar-03Apr)

(Week2: 04Apr-10Apr)



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

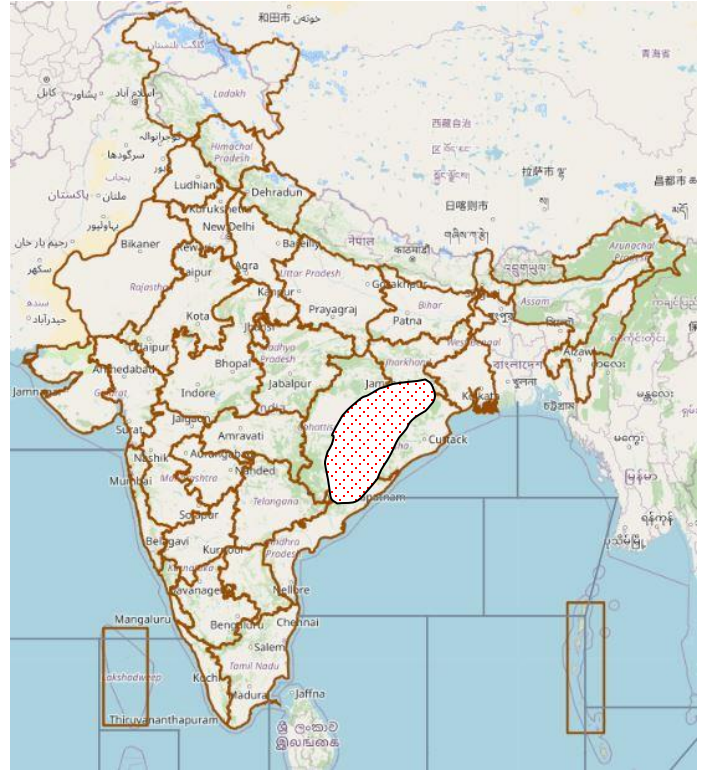
**Heat Wave forecast during next 2 weeks**

**EXTENDED RANGE OUTLOOK FOR HEATWAVE**

**Week1: 28.03.2025- 03.04.2025**



**Week2: 04.04.2025- 10.04.2025**



**PROBABILITY OF HEATWAVE CONFIDENCE**

**LOW (1-33% PROBABILITY)**

**MODERATE (34-67% PROBABILITY)**

**HIGH (68-100% PROBABILITY)**

