

Years of Service to the Nation
राष्ट्र सेवा के 150 वर्ष



Government of India

Earth System Science Organization

Ministry of Earth Sciences

India Meteorological Department

Press Release: Dated: 10th April, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (10th to 23rd April 2025)

1. Salient Observed Features for the week ending 09th April 2025:

- ❖ Heat wave to Severe Heat wave spell prevailed over many areas covering northwest and adjoining central India during second half of the week. Heat wave to severe heat wave conditions occurred over West Rajasthan and Himachal Pradesh during 7th – 9th April, Saurashtra & Kutch on 7th & 8th April, Gujarat Region on 7th April, East Rajasthan on 8th & 9th April, Punjab on 8th April. Heat wave conditions occurred over Saurashtra & Kutch on 3rd to 6th & 9th April, Gujarat Region on 6th, 8th & 9th April, West Rajasthan on 6th April, East Rajasthan on 7th April, Haryana during 7th – 9th April, West Madhya Pradesh during 7th – 9th April, Punjab, East Madhya Pradesh and West Uttar Pradesh on 9th April.
- ❖ Thunderstorm accompanied with Squally/Gusty winds prevailed at isolated locations over Madhya Pradesh on 3rd, 4th & 9th April, Vidarbha on 3rd & 4th April, Chhattisgarh during 3rd – 5th, 8th & 9th April, Jammu-Kashmir-Ladakh on 3rd & 9th April, East Rajasthan, Marathwada and Konkan & Goa on 3rd April, Assam & Meghalaya on 3rd, 4th, 6th & 9th April, Madhya Maharashtra 3rd, 5th & 9th April, Tamil Nadu, Puducherry & Karaikal during 3rd – 8th April, Coastal Karnataka on 3rd, 4th, 6th & 8th April, South Interior Karnataka on 3rd, 4th, 6th – 8th April, North Interior Karnataka during 4th – 9th April, Gangetic West Bengal on 4th & 7th April, West Rajasthan, Haryana, Odisha, Jharkhand and Rayalaseema on 4th April, East Uttar Pradesh on 4th & 9th April, Arunachal Pradesh on 4th & 6th April, Kerala & Mahe during 4th – 9th April, Lakshadweep on 6th April, Coastal Andhra Pradesh & Yanam during 6th – 9th April; Nagaland, Manipur, Mizoram & Tripura on 7th & 9th April, Sub-Himalayan West Bengal & Sikkim on 7th & 9th April, Telangana on 7th & 8th April, Andaman & Nicobar Islands on 7th April, Bihar on 9th April.
- ❖ Hailstorms reported at isolated locations over Madhya Pradesh on 3rd & 4th April, Madhya Maharashtra and Marathwada on 4th April, Telangana on 4th & 9th April, Assam & Meghalaya on 6th, 7th & 9th April, Coastal Andhra Pradesh & Yanam on 6th April. Thundersquall observed at isolated places over Tripura on 7th & 8th April.

- ❖ Heavy to very heavy rainfall occurred at isolated places over Telangana on 4th April, Tamil Nadu Puducherry & Karaikal on 5th April, Kerala & Mahe on 7th April. Heavy rainfall was observed at isolated places over Konkan & Goa on 3rd April, Tamil Nadu Puducherry & Karaikal on 3rd, 4th, 6th, 7th & 9th April, South Interior Karnataka on 4th & 5th April, Coastal Andhra Pradesh & Yanam and Rayalaseema on 4th April, Kerala & Mahe on 5th & 6th April, Arunachal Pradesh on 5th April, Assam & Meghalaya on 7th April, Bihar on 9th April.
- ❖ Weekly Average Minimum temperature was above normal by 1-3°C over parts of northeast India and nearly normal over rest parts of the country during first half of the week. It was above normal by 3-5°C over north, west and central parts of the country, and nearly normal over south peninsular and northeast India during second half of the week. Weekly Average Maximum temperature was above normal by 1-3°C over north India, parts of west and northeast India, and below normal by 1-3°C over parts of south peninsular India during first half of the week. It was above normal by 3-5°C over north, west, central and northeastern India, and nearly normal over rest parts of the country during second half of the week.
- ❖ **Temperature Scenario:** The lowest minimum temperature of **11.8°C** had been recorded at **Karnal (Haryana)** on **03 April, 2025** and the highest maximum temperature of **46.4°C** had been recorded at **Barmer (West Rajasthan)** on **08 April, 2025** over the plains of the country during the week.
- ❖ **Analysis of weekly overall rainfall distribution during the week-ending on 10th April and the Pre-Monsoon Season's Rainfall Scenario (01.03.2025 to 09.04.2025):** The country as a whole, the weekly cumulative All India Rainfall (for 03rd – 09th April 2025) in % departure from its long period average (LPA) is -21%. All India Seasonal cumulative rainfall % departure during this year's Pre-Monsoon Season Rainfall (01st March to 09th April 2025) is -32%. 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		
	03.04.2025 TO 09.04.2025			01.03.2025 TO 09.04.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	5.8	24.5	-76%	43.9	92.0	-52%
NORTHWEST INDIA	1.1	8.5	-87%	29.2	57.8	-50%
CENTRAL INDIA	2.9	1.9	+51%	8.2	10.1	-19%
SOUTH PENINSULA	21.9	5.7	+285%	43.3	22.4	+93%
THE COUNTRY AS A WHOLE	6.5	8.3	-21%	27.3	40.2	-32%

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 becoming > 1 . By the start of Week 2, it will likely migrate to Phase 8 and remain in Phase 8 with amplitude remaining > 1 for the entire Week 2.

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (10 to 16 April, 2025) and Week 2 (17 to 23 April, 2025)

Weather systems & associated Precipitation during Week 1 (10 to 16 April, 2025):

- ❖ The **Low-pressure area** over westcentral Bay of Bengal persisted at 0830 hrs IST of today, the 10th April, 2025 with the associated cyclonic circulation extending upto middle tropospheric levels. It is likely to move north-northeastwards and weaken gradually over central Bay of Bengal during next 24 hours. Under its influence squally weather wind speed reaching 35-45 Km/h gusting to 55 Km/h likely over central & northeast Bay of Bengal during next 24 hours.
- ❖ The **Western Disturbance** as a **trough** in westerlies in middle tropospheric levels runs roughly along Long. 68°E to the north of Lat. 28°N and another along Long. 77°E to the north of Lat. 21°N. **An upper air cyclonic circulation** lies over south Pakistan, 2nd over Punjab and 3rd over northwest Madhya Pradesh and a trough runs from west Rajasthan to Marathwada in lower tropospheric levels.

- ❖ The **upper air cyclonic circulations** also lie over north Bangladesh, 2nd over south Assam and 3rd over northeast Assam in lower tropospheric levels and 04th over northeast Bihar in lower & middle tropospheric levels.
- ❖ Under the influence of these systems:
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 10th & 11th and Uttarakhand during 10th-12th April.
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over northeast and adjoining east India during next 7 days.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over plains of Northwest, Central and adjoining East India during 10th-12th April.
 - ✓ **Heavy rainfall** likely over Bihar on 10th & 11th; Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh during 10th-12th; Assam & Meghalaya during 10th-13th April.
 - ✓ **Isolated Hailstorm** likely over Haryana, East Uttar Pradesh, north Chhattisgarh, East Madhya Pradesh, Jharkhand, Assam & Meghalaya on 10th; Jammu-Kashmir, Himachal Pradesh, Uttarakhand and Punjab on 10th & 11th April.
 - ✓ **Duststorm** very likely at isolated places over West Rajasthan on 10th & 11th April.
 - ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Haryana, East Uttar Pradesh, Bihar and Assam & Meghalaya on 10th; Uttarakhand, Punjab and Sub-Himalayan West Bengal & Sikkim on 10th & 11th April
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Kerala & Mahe during next 7 days and Lakshadweep during next 3 days. **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka during next 5 days.
- ❖ No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (17 to 23 April, 2025):

- ❖ Under the influence of western disturbances, isolated to scattered rainfall is likely over the 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 thunderstorms & lightning are likely over northeast India & adjoining East India during some/many days of the week. Isolated heavy rainfall is also likely over northeast India during some days of the week.

- ❖ Light/moderate rainfall, along with thunderstorms & lightning, is also likely over south Peninsular India during some days of the week.
- ❖ Overall, normal to above normal rainfall, along with thunderstorms & lightning, are likely over many parts of East & northeast India and South Peninsular India and near normal over the Western Himalayan Region during the week.

Temperature forecast & heat wave warning for Week 1 (10 to 16 April, 2025) and Week 2 (17 to 23 April, 2025)

Temperature forecast & heat wave warning for Week 1 (10 to 16 April, 2025):

- ❖ Yesterday, **Maximum Temperatures** were in the range of **42-44°C** at many places over Rajasthan, Saurashtra & Kutch; at a few places over Gujarat Region, West Madhya Pradesh; at isolated places over Haryana, Madhya Maharashtra; **38-42°C** at most places over East Madhya Pradesh; at many places over Delhi, Uttar Pradesh, Chhattisgarh, Marathwada, Vidarbha, Odisha, Rayalaseema; at a few places over Punjab, Telangana; at isolated places over northwest Jharkhand, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, north Tamil Nadu. Yesterday, the highest **maximum temperature of 45.6°C** was reported at **Kandla (Saurashtra & Kutch)** over the country.
- ❖ Yesterday, Maximum Temperatures were **above normal by 4-7°C** at most places over Rajasthan, Gujarat, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and adjoining Assam; at some parts of West Uttar Pradesh, West Madhya Pradesh; **by 1-3°C** at Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Madhya Maharashtra, Marathawada, Konkan & Goa. These were **below normal by 1-3°C** at many places over Gangetic West Bengal, Bihar, Odisha, Telangana, Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Sub-Himalayan West Bengal & Sikkim, north interior Karnataka and Tamilnadu Puducherry & Karaikal and near normal over rest parts of the country.

Forecast of temperature:

Maximum temperature:

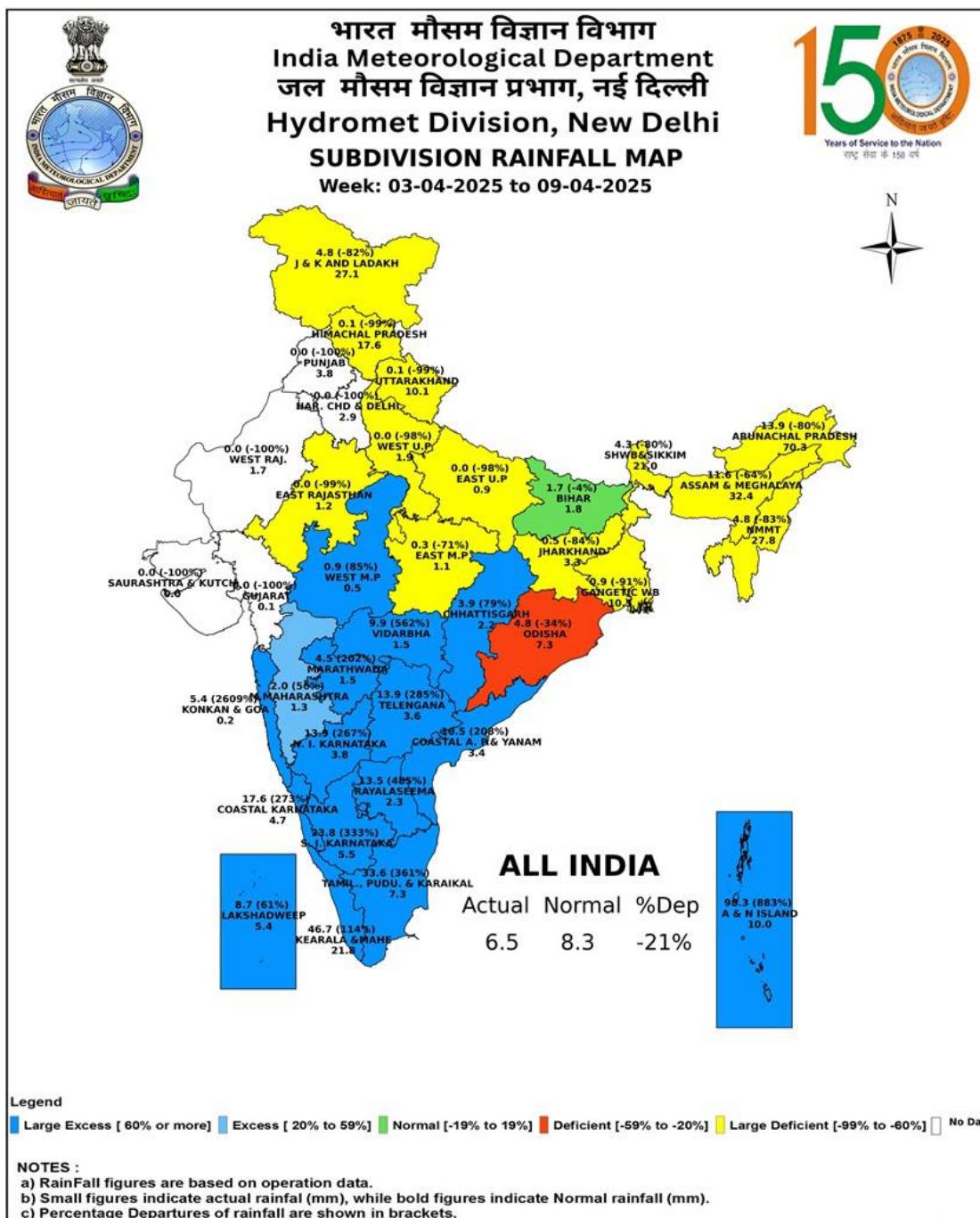
- ❖ Fall by 3-5°C in maximum temperatures likely over Northwest India during next 3 days and gradual rise by 2-4°C thereafter during subsequent 4 days.
- ❖ Fall by 2-4°C in maximum temperatures likely over Central India during next 3 days and no significant change thereafter during subsequent 4 days.
- ❖ Fall by 2-4°C in maximum temperatures likely over west India during next 3 days and gradual rise by 2-3°C thereafter during subsequent 4 days.
- ❖ No significant change over rest parts of the country.

Heat wave and Hot & Humid weather warning:

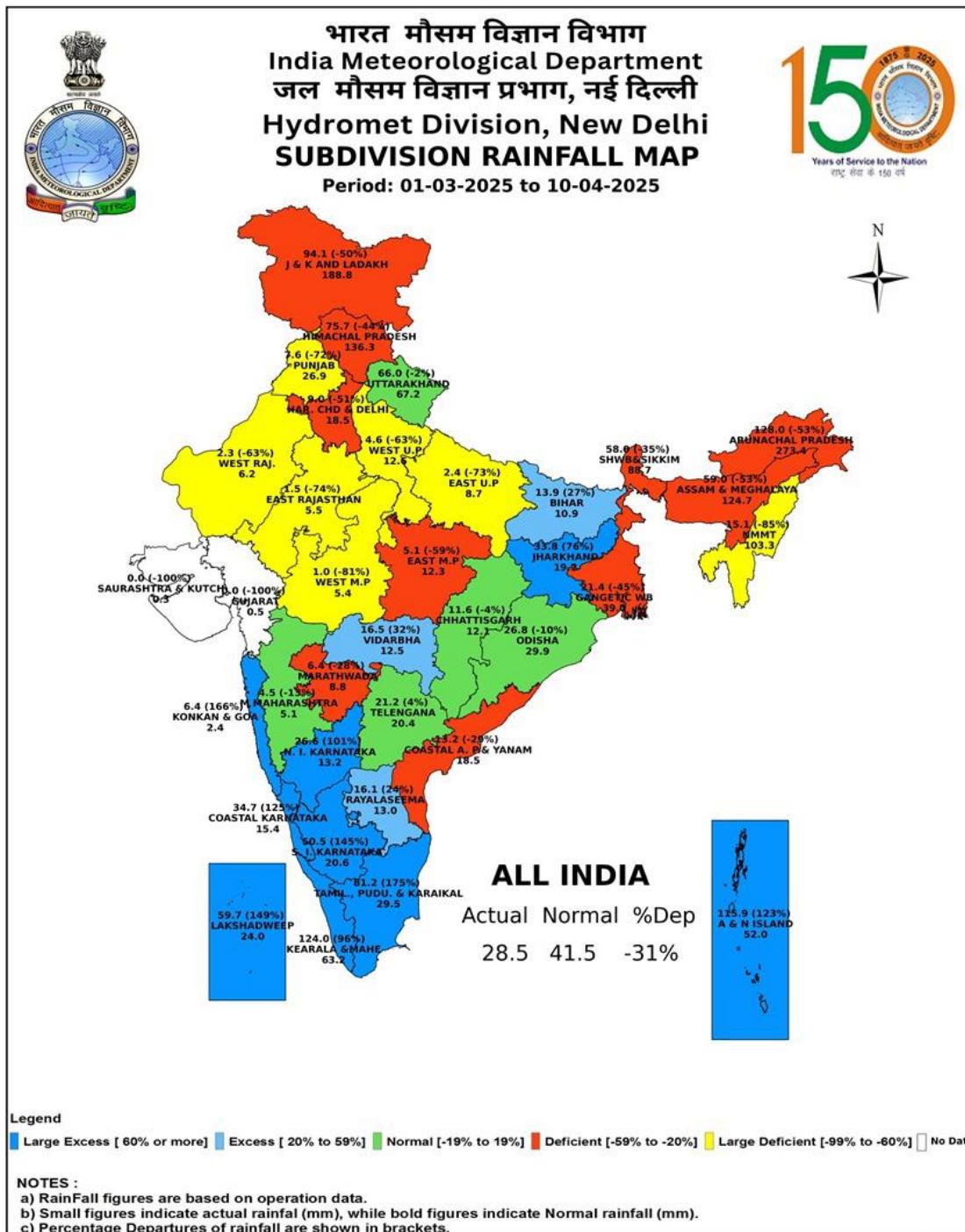
- ❖ **Heat wave conditions** very likely at Rajasthan, south Haryana, Gujarat and Madhya Pradesh on 10th April.
- ❖ **A fresh spell of Heat wave conditions** likely at West Rajasthan from 14th to 16th, East Rajasthan, Haryana and Punjab on 16th April.
- ❖ **Hot & humid** weather is likely to prevail over coastal areas of Gujarat and Maharashtra on 10th April.

Temperature forecast & heat wave warning for Week 2 (17 to 23 April, 2025):

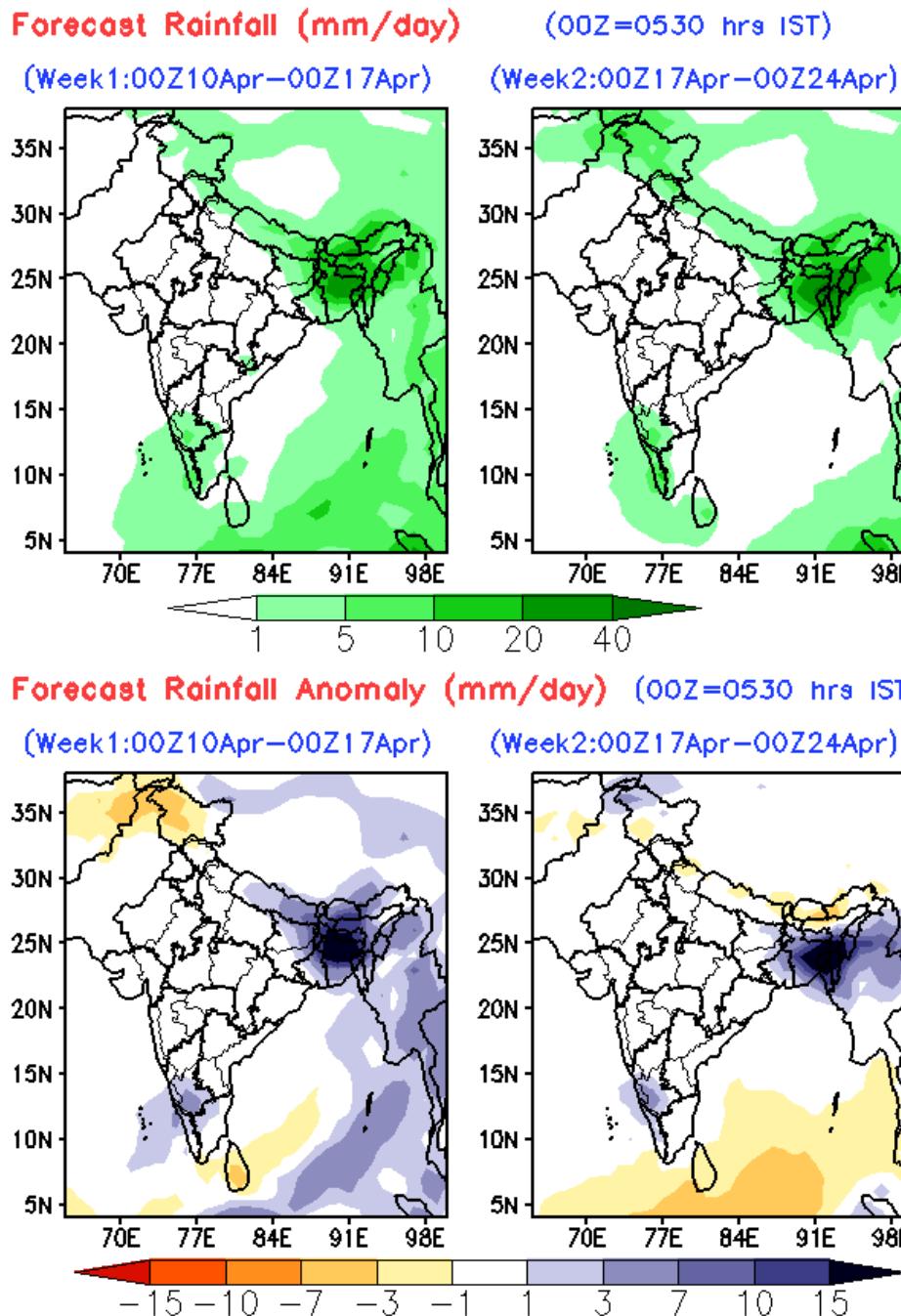
- ❖ Maximum temperatures are likely to be above normal by 1-3°C over many parts of northwest India, some parts of East India and over Gujarat. It is near normal or below normal over rest parts of the country.
- ❖ There is a low to moderate probability of heatwave conditions over some/isolated pockets of Rajasthan, south Haryana & south Punjab, north Gujarat and Madhya Pradesh during some days of the week.



Annexure II



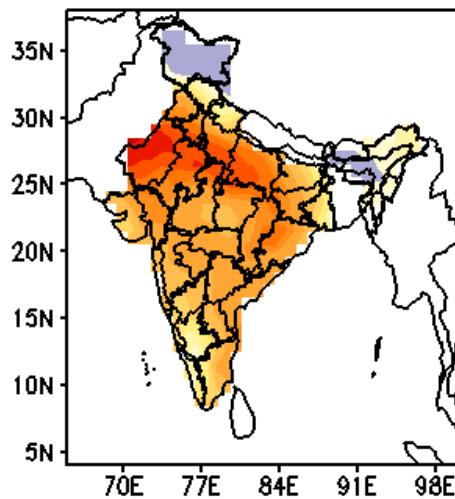
Annexure III



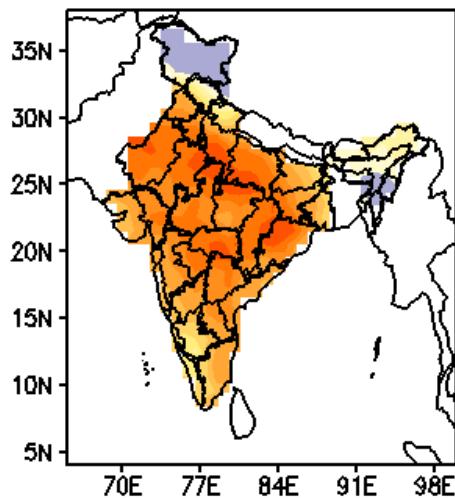
Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

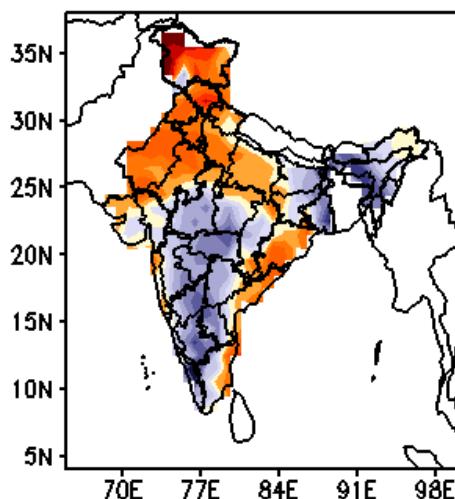
(Week1: 11Apr–17Apr)



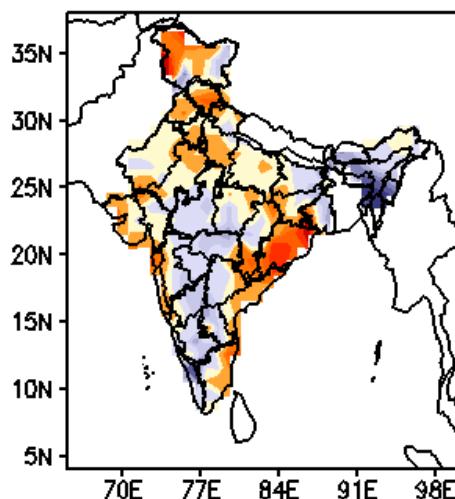
(Week2: 18Apr–24Apr)

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

(Week1: 11Apr–17Apr)



(Week2: 18Apr–24Apr)



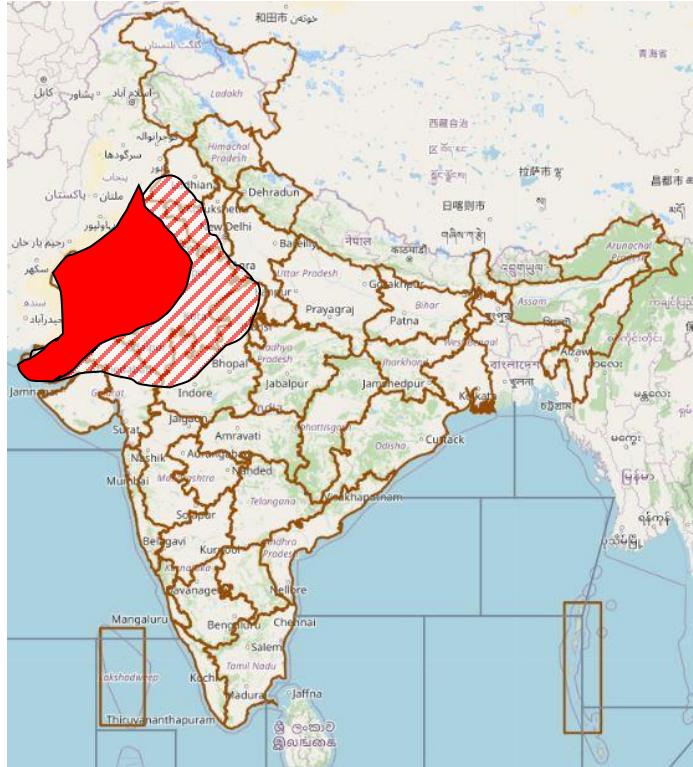
Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

Annexure V

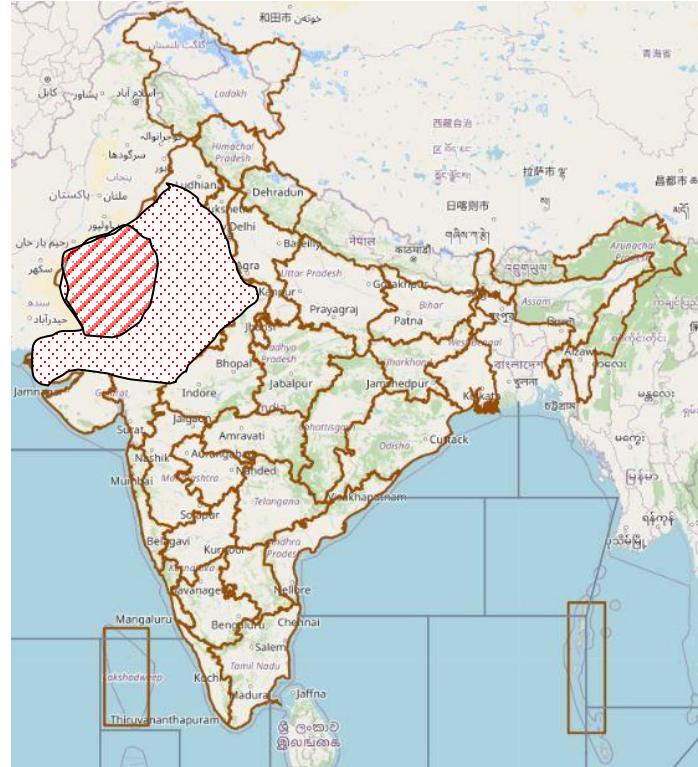
Heat Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Wee1: 11.04.2025- 17.04.2025



Week2: 18.04.2025- 24.04.2025



PROBABILITY OF HEATWAVE

- LOW (1-33% PROBABILITY)
- MODERATE (34-67% PROBABILITY)
- HIGH (68-100% PROBABILITY)

CONFIDENCE

