

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

Press Release: Dated: 03rd April, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (03rd to 16th April 2025)

1. Salient Observed Features for the week ending 02nd April 2025:

- ❖ **Heat wave** was observed at isolated places only over Gangetic West Bengal on 30th March, Saurashtra & Kutch on 2nd April, while most parts of India did not experienced any heat wave conditions. **The day maximum temperature was below normal by 4-8°C during 1st half of the week across northwest India** and it was due to stronger surface westerly/northwesterly windy conditions (upto 20-30 gusting 40 kmph) in the region during the period. Also, light to moderate rainfall with isolated thunderstorm with lightning and squally/gusty winds prevailed over parts of central and south peninsular India during end of the week (1st & 2nd April, 2025).
- ❖ **Thunderstorm with lightning** recorded at isolated places over Jammu-Kashmir-Ladakh on 27th & 28th March, Kerala & Mahe from 27th to 29th March & 2nd April, Madhya Maharashtra on 27th March & 1st April, Coastal Andhra Pradesh & Yanam and Coastal Karnataka on 27th March, North Interior Karnataka on 27th March & 1st April, Assam & Meghalaya on 1st & 2nd April, West Madhya Pradesh and Marathawada on 1st April, Vidarbha, Chhattisgarh and Odisha on 2nd April.
- ❖ **Hailstorms** reported at isolated locations over Jammu-Kashmir-Ladakh on 28th March, Madhya Maharashtra on 2nd April.
- ❖ **Squally/Gusty winds** prevailed at isolated locations over Jammu-Kashmir-Ladakh from 27th to 29th March, Uttar Pradesh from 28th to 30th March, Punjab on 28th & 30th March, Haryana on 30th March, Assam & Meghalaya on 30th March & 1st April, North Interior Karnataka from 31st March to 2nd April, Madhya Pradesh, Madhya Maharashtra and Marathawada on 1st & 2nd April, South Interior Karnataka and Tamil Nadu on 2nd April.
- ❖ **Very Heavy rainfall** was recorded at isolated places over Assam & Meghalaya on 1st April and **Heavy rainfall** was observed at isolated places over Tamil Nadu on 27th March & 2nd April.
- ❖ **Weekly Average Minimum temperature** was below normal by 1-3°C over parts of northwest and north India, above normal by 2-4°C over Konkan & Goa and parts of Maharashtra, and nearly normal over remaining parts of the country

during this week. **Weekly Average Maximum temperature** was above normal by 1-3°C over north India, parts of east and northeast India, and nearly normal over remaining parts of the country during this week.

- ❖ **Temperature Scenario:** The lowest minimum temperature of **8.0°C** had been recorded at **Amritsar (Punjab)** on **29 March, 2025** and the highest maximum temperature of **43.0°C** had been recorded at **RAJNANDGAON & JHARSUGUDA (CHATTISGARH & ODISHA)** on **28 March, 2025** over the plains of the country during the week.

- ❖ **Analysis of weekly overall rainfall distribution during the week-ending on 02nd April and the Pre-Monsoon Season's Rainfall Scenario (01.03.2025 to 02.04.2025):** The country as a whole, the weekly cumulative All India Rainfall (for 27th March to 02nd April 2025) in % departure from its long period average (LPA) is -75%. All India Seasonal cumulative rainfall % departure during this year's Pre-Monsoon Season Rainfall (01st March to 02nd April 2025) is -35%. 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		
	27.03.2025 TO 02.04.2025			01.03.2025 TO 02.04.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	4.2	22.1	-81%	38.3	67.5	-43%
NORTHWEST INDIA	1.4	7.0	-80%	28.1	49.3	-43%
CENTRAL INDIA	0.6	1.4	-56%	5.3	8.2	-35%
SOUTH PENINSULA	2.1	3.4	-38%	21.4	16.7	28%
THE COUNTRY AS A WHOLE	1.7	6.8	-75%	20.7	31.9	-35%

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 7 with an amplitude < 1. It is likely to remain in Phase 7 during next two weeks, with amplitude remaining <1.

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (03 to 09 April, 2025) and Week 2 (10 to 16 April, 2025)

Weather systems & associated Precipitation during Week 1 (03 to 09 April, 2025):

- ❖ An upper air Cyclonic Circulation lies over Marathwada & adjoining Madhya Maharashtra in the lower tropospheric levels.
- ❖ An upper air trough in easterlies runs from South Interior Karnataka to southwest Madhya Pradesh across the above cyclonic circulation over Marathwada in the lower tropospheric levels.
- ❖ An upper air Cyclonic Circulation lies over Sub-Himalayan West Bengal & adjoining Bangladesh in the lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over southeast Arabian Sea and a trough runs from the this cyclonic circulation to south Kerala in lower tropospheric levels.
- ❖ Under the influence of these systems and confluence of moist winds from Arabian sea and Bay of Bengal in lower tropospheric levels;
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over South Peninsular India during 03rd-05th; Central India, Maharashtra, Gangetic West Bengal, Jharkhand and Odisha on 03rd & April.
 - ✓ **Isolated Hailstorm** likely over East Rajasthan, Madhya Pradesh, Vidarbha, Telangana on 03rd; Jharkhand on 04th; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 05th April.
 - ✓ **Heavy rainfall** very likely at isolated places over Kerala & Mahe, South Interior Karnataka during 03rd-06th; Tamil Nadu during 03rd-05th; Coastal Karnataka on 03rd & 04th; North Interior Karnataka, Andaman & Nicobar Islands on 03rd; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 05th & 06th; Arunachal Pradesh on 05th April.
- ❖ No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (10 to 16 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 and light rainfall alongwith thunderstorm likely over parts of plains of northwest India during some days of the week.
- ❖ Light/moderate scattered to fairly widespread rainfall alongwith thunderstorm are likely over northeast India & adjoining East India during some/many days of the week.
- ❖ Light/moderate rainfall alongwith thunderstorm also likely over extreme south Peninsular India during some days of the week..
- ❖ Overall, rainfall is likely to be normal to above normal over all the homogeneous regions of India during the week.

Temperature forecast & heat wave warning for Week 1 (03 to 09 April, 2025) and Week 2 (10 to 16 April, 2025)

Temperature forecast & heat wave warning for Week 1 (03 to 09 April, 2025):

- ❖ Yesterday's **Maximum Temperatures** were in the range of 39-41°C in some parts of Gujarat, south Rajasthan, southwest Madhya Pradesh, southeast Uttar Pradesh, south Marathwada adjoining north interior Karnataka and Telangana, Vidarbha, interior Odisha; 35-38° C over remaining parts of Rajasthan, Uttar Pradesh, Maharashtra, Telangana and Odisha, Chhattisgarh, Bihar, Jharkhand, West Bengal, North interior Karnataka & adjoining coastal & south interior Karnataka, south Tamil Nadu, Andhra Pradesh; 30-34° C over Punjab, Haryana, Chandigarh, Delhi, remaining parts of Karnataka, Tamil Nadu, Islands, west Assam, Nagaland, Manipur, Mizoram and 20-29° C over Western Himalayan Region. Yesterday, the highest maximum temperature of **42.8°C was reported at Surendranagar (Saurashtra & Kutch)** over the country.
- ❖ Yesterday, Maximum Temperatures were **above normal by 2-5°C** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana Chandigarh & Delhi, Rajasthan, Gujarat state, Nagaland, Manipur, Mizoram & Tripura, West Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **below normal by 2-6°C** over southeast Uttar Pradesh, East Madhya Pradesh, Maharashtra, Telangana, Rayalaseema, interior Karnataka and near normal of rest parts of the country.

Forecast of temperature:

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Northwest India during next 6 days.
- ❖ No significant change in maximum temperatures likely over Central India during next 2 days and gradual rise by 2-4°C during subsequent 5 days.

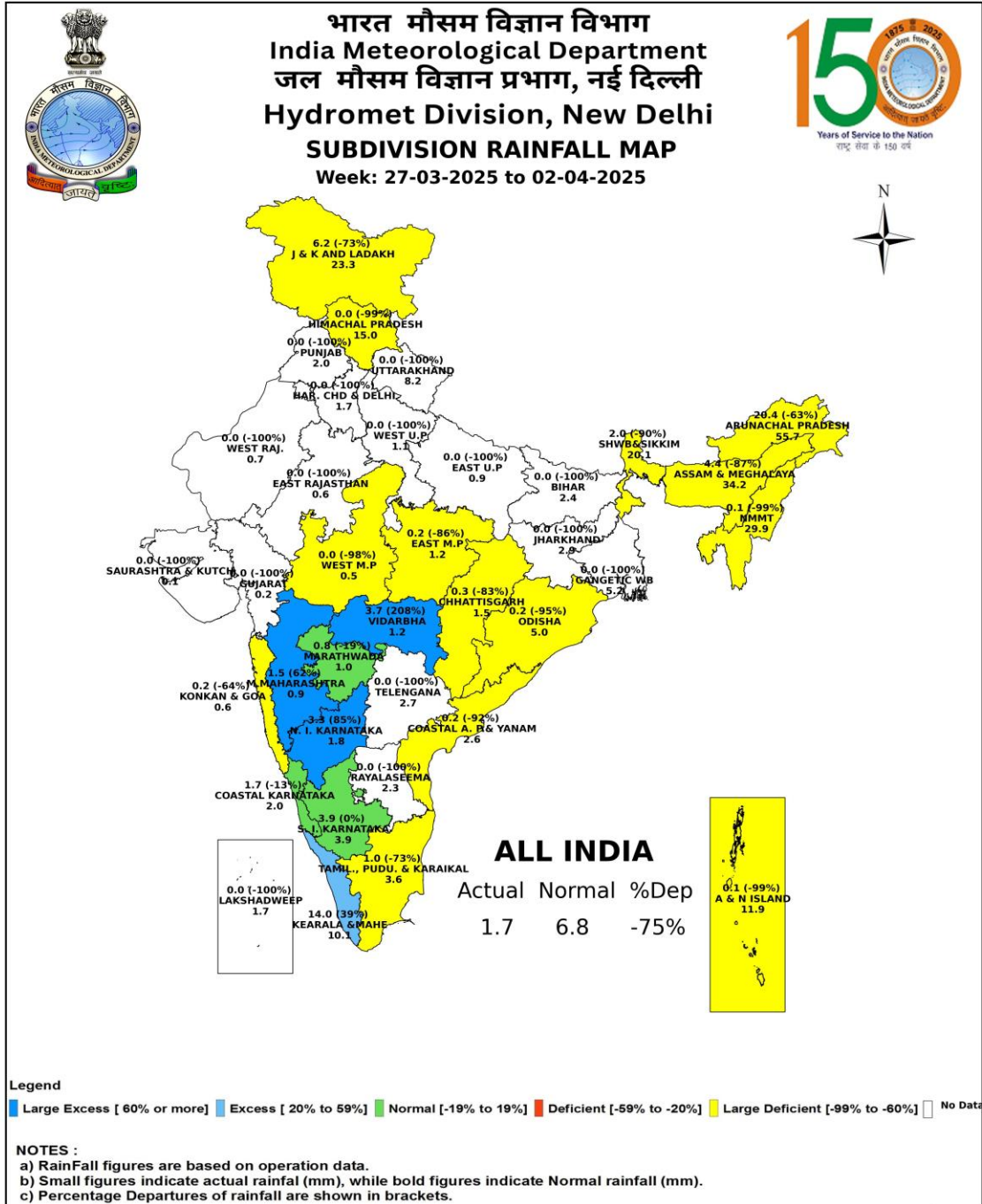
- ❖ No significant change in maximum temperatures likely over West India during next 24 hours and rise by 2-3°C during subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over south peninsular India during next 3 days and rise by 2-3°C during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country during next 7 days.

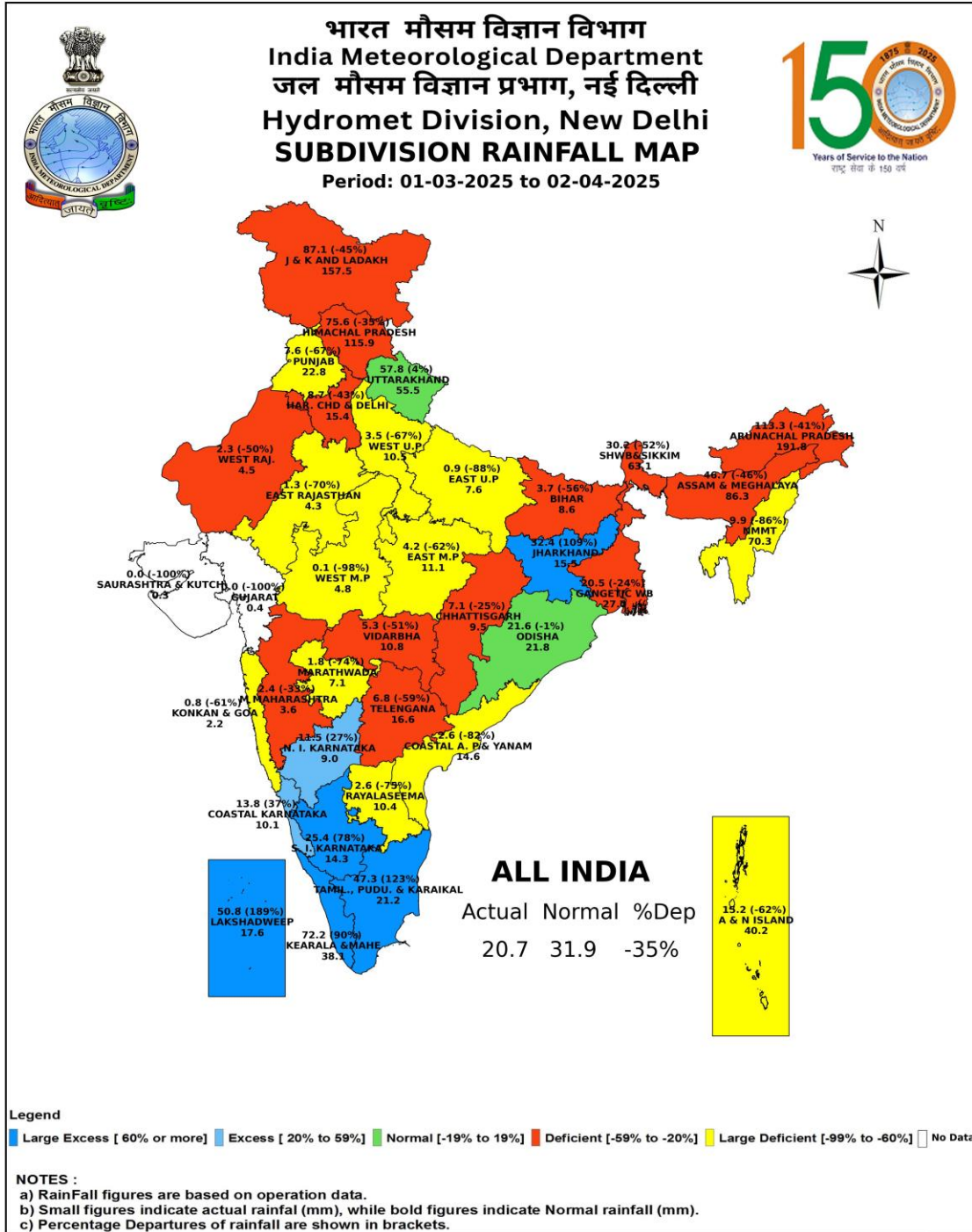
Heat wave and Hot & Humid weather warning:

- ❖ Heat Wave conditions very likely to continue to prevail at isolated/some pockets of Saurashtra & Kutch during 03rd-08th; in isolated pockets of West Rajasthan during 06th-09th; Gujarat Region during 06th-08th; East Rajasthan, Punjab, Haryana during 07th-09th April.
- ❖ Hot & humid weather is likely over Gujarat state during 03rd-09th and over Konkan & Goa during 05th-09th April, 2025.

Temperature forecast & heat wave warning for Week 2 (10 to 16 April, 2025):

- ❖ Maximum temperatures are likely to be above normal by 2-3°C over many parts of Western Himalayan Region, Odisha, Coastal Andhra Pradesh and south Chhattisgarh; near normal or below normal over rest parts of the country.
- ❖ There is low probability of heat wave conditions over north Coastal Andhra Pradesh and Odisha during some days of the week.



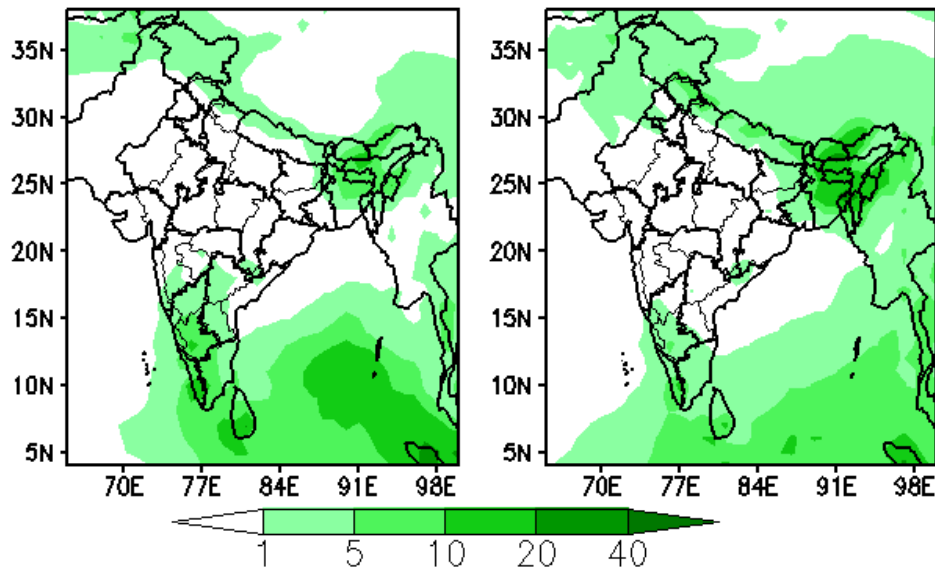


Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z03Apr-00Z10Apr)

(Week2:00Z10Apr-00Z17Apr)

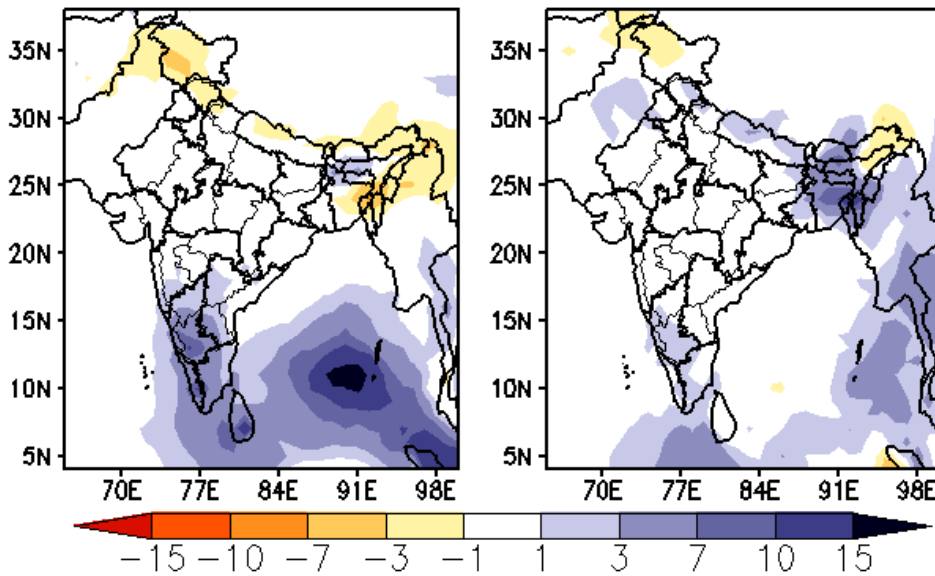


Forecast Rainfall Anomaly (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z03Apr-00Z10Apr)

(Week2:00Z10Apr-00Z17Apr)

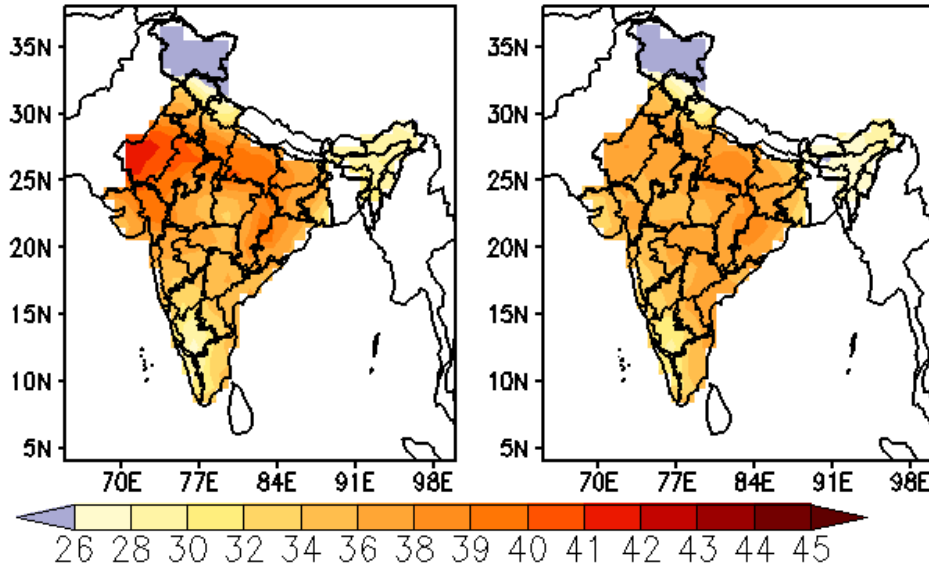


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

(Week1: 04Apr-10Apr)

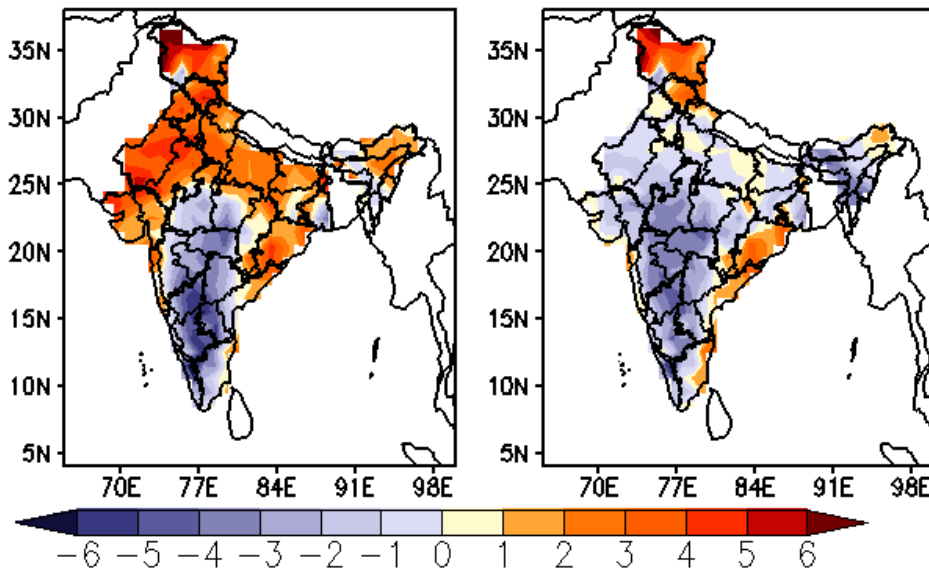
(Week2: 11Apr-17Apr)



MME forecast Tmax anomaly (Deg C)

(Week1: 04Apr-10Apr)

(Week2: 11Apr-17Apr)

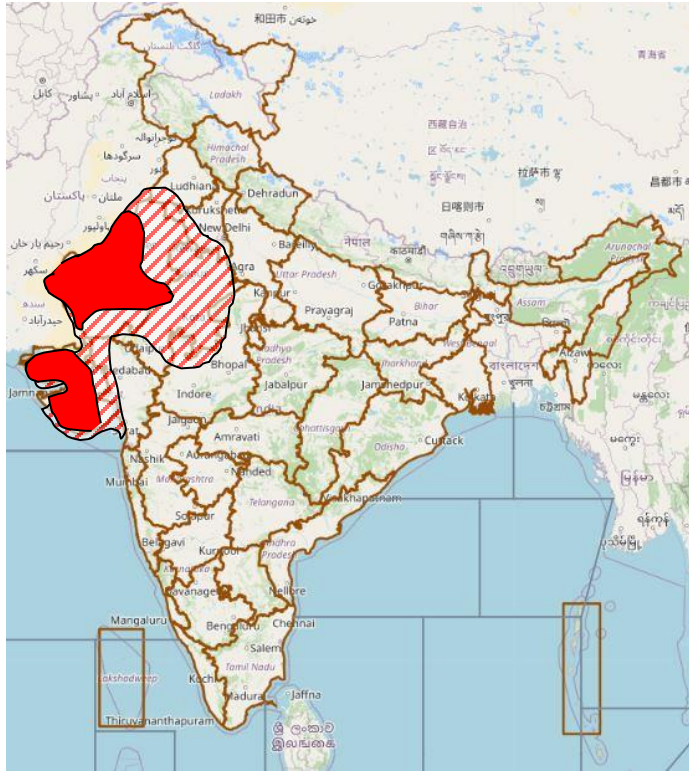


Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

Heat Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Week1: 04.04.2025- 10.04.2025



Week2: 11.04.2025- 17.04.2025



PROBABILITY OF HEATWAVE CONFIDENCE

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)

