

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

Press Release: Dated: 16th April 2026

Subject: Current Weather Status and Extended Range Forecast for the next two weeks (16 to 29 April 2026)

1. Salient Observed Features for the week ending 15th April 2026:

- ❖ Last week's large-scale thunderstorm activities over North India decreased during the first half of the week and consequently rise in maximum temperature over many parts of the country from the second half of the week.
- ❖ **Heavy to Very Heavy Rainfall** recorded at isolated places over Sub-Himalayan West Bengal & Sikkim on 12th April. Heavy rainfall recorded at isolated places over Assam & Meghalaya on 9th & 13th April; Odisha, Uttarakhand, West Uttar Pradesh on 9th April; Sub-Himalayan West Bengal & Sikkim on 10th April; and Nagaland, Manipur, Mizoram & Tripura on 15th April.
- ❖ **Hailstorm** recorded at isolated places over Himachal Pradesh on 9th & 10th April, Haryana on 9th & 12th April, Jharkhand, West Uttar Pradesh, East Uttar Pradesh, West Madhya Pradesh on 9th April.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** prevailed at isolated places over Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, East Madhya Pradesh during 9th – 15th April, Nagaland, Manipur, Mizoram & Tripura during 9th – 11th & 13th – 15th April, Jammu-Kashmir on 9th & 12th April, Uttarakhand, Haryana-Chandigarh on 9th , 13th & 14th April, Punjab on 9th & 12th – 14th April, Konkan & Goa on 9th , 10th , 12th – 14th April, Marathwada on 9th , 10th , 12th & 15th April, Chhattisgarh on 9th , 11th & 13th – 15th April, Tamil Nadu, Puducherry & Karaikal on 9th , 11th , 13th & 15th April, Bihar, West Uttar Pradesh on 9th & 12th – 14th April, East Uttar Pradesh on 9th & 12th – 15th April, Jharkhand during 9th – 11th & 13th April, Odisha on 9th , 10th & 14th April, Gangetic West Bengal, Vidarbha on 9th April, Sub-Himalayan West Bengal & Sikkim on 10th April, Bihar during 10th – 14th April, Himachal Pradesh on 10th , 12th & 15th April, West Madhya Pradesh, Saurashtra & Kutch during 10th – 15th April, Gujarat Region during 10th – 12th , 14th & 15th April.
- ❖ **Weekly Average Maximum temperature** was below normal by 3-5°C over many parts of north, west, northwest, central, and east India during the first half of the week, 1-3°C above normal in parts of north & west India and south peninsular India during the second half of the week. It was below normal by 3-5°C over many

parts of northeast India and nearly normal over remaining parts of the country during the week. **Weekly Average Minimum temperature** was above normal by 2-4°C over many parts of north, northwest & adjoining central, and east & northeast India during first half of the week, 2-4°C above normal of parts of west India and south peninsular India during second half of the week. It was near normal over remaining parts of the country during the week.

❖ **Temperature Scenario:** The lowest minimum temperature of **12.0°C** had been recorded at **BANDA (EAST UTTAR PRADESH) and NAJIBABAD (WEST UTTAR PRADESH)** on **9th & 10th April, 2026**, and the highest maximum temperature of **44.2 °C** had been recorded at **AKOLA (VIDARBHA)** on **15th April, 2026** over the plains of the country during the week.

❖ **Analysis of weekly overall rainfall distribution during the week ending on 15th April and the Pre-Monsoon Season’s Rainfall Scenario (01.03.2026 to 15.04.2026):** The country as a whole, the weekly cumulative All India Rainfall (ending on 15th April) in % departure from its long period average (LPA) is -46%. All India Seasonal cumulative rainfall % departure during this year’s Pre-Monsoon Season Rainfall (01.03.2026 to 15.04.2026) is 14%. Details of the rainfall distribution over the four broad geographical regions of India are provided in Table 1. Meteorological sub-division-wise rainfall for the week and season is presented in **Annexure I & II**, respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	09.04.2026 TO 15.04.2026			01.03.2026 TO 15.04.2026		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	15.1	24.7	-39%	148.5	112.9	32%
NORTHWEST INDIA	4.6	7.5	-39%	62.8	63.9	-2%
CENTRAL INDIA	1.0	1.9	-47%	16.3	11.7	40%
SOUTH PENINSULA	1.6	7.6	-80%	28.6	29.3	-2%
THE COUNTRY AS A WHOLE	4.5	8.3	-46%	54.1	47.3	14%

2. Large-scale features:

❖ At present, Weak La Niña-like conditions are transitioning to ENSO-neutral conditions over the equatorial Pacific. However, some atmospheric circulation features across the tropical Pacific remain consistent with weak La Niña-like conditions. The latest forecasts from the Monsoon Mission Climate Forecast

System (MMCFS) suggest that ENSO-neutral conditions are most likely to continue during the April to June 2026 season. The Monsoon Mission Climate Forecast System (MMCFS) suggests the development of El Niño conditions during the SW Monsoon season.

- ❖ Currently, neutral Indian Ocean Dipole (IOD) conditions are present over the Indian Ocean, and the latest Climate models forecast indicates that the positive IOD conditions are likely to develop towards the end of the southwest monsoon season.
- ❖ Madden-Julian Oscillation (MJO) index is currently in phase 8 with amplitude greater than 1. It is likely to move across phases 8 and 1 during week 1 and the first half of week 2, with amplitude remaining more than 1. Thereafter, it is likely to move across phase 2 with a gradual decreasing trend in amplitude, but remaining more than 1.

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (16 to 22 April 2026) and Week 2 (23 to 29 April 2026)

Weather systems & associated Precipitation during Week 1 (16 to 22 April 2026):

- ❖ The **Western Disturbance** as a trough in middle & upper-level subtropical westerlies runs roughly along Long. 58°E to the north of Lat. 32°N.
- ❖ An **upper air cyclonic circulation** lies over north Haryana & neighbourhood in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over northeast Madhya Pradesh & neighbourhood in lower tropospheric levels.
- ❖ A **north-south trough** runs from the cyclonic circulation over northeast Madhya Pradesh to gulf of Mannar in lower tropospheric levels
- ❖ An **east-west trough** runs from southeast Rajasthan to Manipur in lower tropospheric levels.
- ❖ The **Anti-cyclonic circulation** over Karnataka & adjoining Maharashtra between lower and middle tropospheric levels.

Under the influence of above systems, the following weather is likely:

Northeast India:

- ❖ **Scattered to Fairly widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Arunachal Pradesh during 18th-20th, Assam & Meghalaya during 16th-20th; Nagaland,

Manipur, Mizoram & Tripura on 16th April; with **lightning** over Arunachal Pradesh during 16th & 17th; Nagaland, Manipur, Mizoram & Tripura during 17th-20th April.

- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh during 18th -20th; Assam & Meghalaya during 16th -19th April.
- ❖ Isolated **Hailstorm activity** likely over Mizoram on 16th April.

Northwest India:

- ❖ **Scattered to Fairly widespread** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 16th-19th and **Isolated to Scattered** over Himachal Pradesh, Uttarakhand during 17th-19th April; **Isolated** light rainfall with **thunderstorm, lightning** over Punjab, Haryana Chandigarh & Delhi, Rajasthan on 17th April.
- ❖ Isolated **Hailstorm activity** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 17th April.

East India:

- ❖ **Isolated to Scattered** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 16th- 19th April; Jharkhand on 16th; Gangetic West Bengal on 17th; Bihar on 18th and Odisha during 16th-21st April.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 18th April.
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Gangetic West Bengal on 16th April.

Central India:

- ❖ **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over West Madhya Pradesh on 19th & 20th April; **with lightning** over Vidarbha & Chhattisgarh on 20th April.

South Peninsular India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Coastal Andhra Pradesh & Yanam on 16th & 17th; Interior Karnataka on 19th & 20th; April; **with lightning** over Coastal Karnataka during 16th -20th, North Interior Karnataka on 17th & 18th; South Interior Karnataka during 16th -18th Coastal Andhra Pradesh & Yanam during 18th- 20th, Telangana on 19th & 20th, Rayalaseema on 20th April.

West India:

- ❖ **Isolated** light to moderate rainfall with **thunderstorm, lightning** likely over Madhya Maharashtra during 18th -20th, Marathawada during 18th -21th April.

Precipitation for week 2 (23 to 29 April 2026):

- ❖ Under the influence of western disturbances, light/moderate precipitation at scattered to fairly widespread places are likely over the Western Himalayan Region (WHR) during some days of the week.
- ❖ Under the influence of the trough and cyclonic circulation in lower tropospheric levels over east & northeast India, light/moderate scattered to fairly widespread precipitation with thunderstorm activity likely over Northeast & adjoining East India during some days of week 2.
- ❖ Isolated heavy rainfall is likely over Arunachal Pradesh, Assam & Meghalaya during some days of week 2.
- ❖ Overall, thunderstorm activity is likely over the northeast & adjoining east India & central India during some days of the week.
- ❖ Overall, rainfall is likely to be normal to above normal over many parts of northeast & adjoining East India, and near normal or dry weather is likely over the remaining parts of the country (Annexure III).

Temperature forecast for Week 1 (17 to 23 April 2026) and Week 2 (24 to 30 April 2026)

Temperature forecast for Week 1 (17 to 23 April 2026):

Temperature Conditions during the past 24 hours till 0830 hours IST of today:

- ❖ **Maximum/day temperatures** were in the range of 38-44°C at many places over the country except the Western Himalayan region, north Punjab, Sub-Himalayan West Bengal & Sikkim, and Northeast India, where these were less than 38°C. **The highest maximum temperature of 44.4°C was reported at BANDA (UTTAR PRADESH).**
- ❖ **Maximum/day temperatures** were **markedly above normal (> 5.1°C)** over Jammu-Kashmir; appreciably **above normal (3.1°C to 5.0°C)** over Himachal Pradesh, Uttarakhand, Delhi, Rajasthan, East Madhya Pradesh, Vidarbha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; **appreciably below normal (-5.0°C to -3.1°C)** over Assam; **below normal (-3.0°C to -1.6°C)** over Bihar, West Bengal and near normal over rest parts of the country.

❖ **Minimum/night temperatures** were in the range of **13–19°C** over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya. They were in the range of 20–26°C over remaining parts of the plains of the country. **Today, the lowest minimum temperature of 14.0 °C was observed at Sarsawa IAF (West Uttar Pradesh) over the plains of India.**

❖ **Minimum/night Temperature** were **appreciably above normal (3.1°C to 5.0°C)** over West Rajasthan and Gangetic West Bengal; **appreciably below normal (-5.0°C to -3.1°C)** over West Uttar Pradesh; **below normal (-3.0°C to -1.6°C)** over Jammu-Kashmir, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Marathawada and near normal over rest parts of the country.

Heat Wave Warnings

❖ **Heat wave conditions** very likely in isolated pockets of East Madhya Pradesh, during 16th -19th; West Madhya Pradesh, during 17th -19th; Vidarbha and Chhattisgarh during 17th -20th; Odisha on 18th & 19th; Jharkhand 19th & 20th; Marathawada, Madhya Maharashtra & North Interior Karnataka during 16th-18th; Rayalaseema on 17th & 18th April.

Hot & Humid weather Warnings:

❖ **Hot & humid conditions** very likely to prevail in isolated pockets over Odisha during 16th-22nd; Gangetic West Bengal during 19th-22nd; Konkan & Goa on 16th & 17th; coastal areas of Gujarat State during 16th-18th; Tamil Nadu, Kerala & Mahe, Coastal Karnataka during 16th -20th; Coastal Andhra Pradesh & Yanam during 16th -19th April.

Forecast of maximum/day temperatures:

- ❖ No significant change in maximum temperatures is likely over Northwest India during 16th-22nd April.
- ❖ Gradual rise in maximum temperatures by 2°C likely over Central India during 16th-19th April and gradual fall by 2-3°C on 20th & 21st and no significant change on 22nd April.
- ❖ No significant change in maximum temperatures likely over Maharashtra & Gujarat during 16th-18th April and gradual fall by 2-3°C during 19th -22nd April.
- ❖ No significant change in maximum temperatures is likely over the rest of the country.

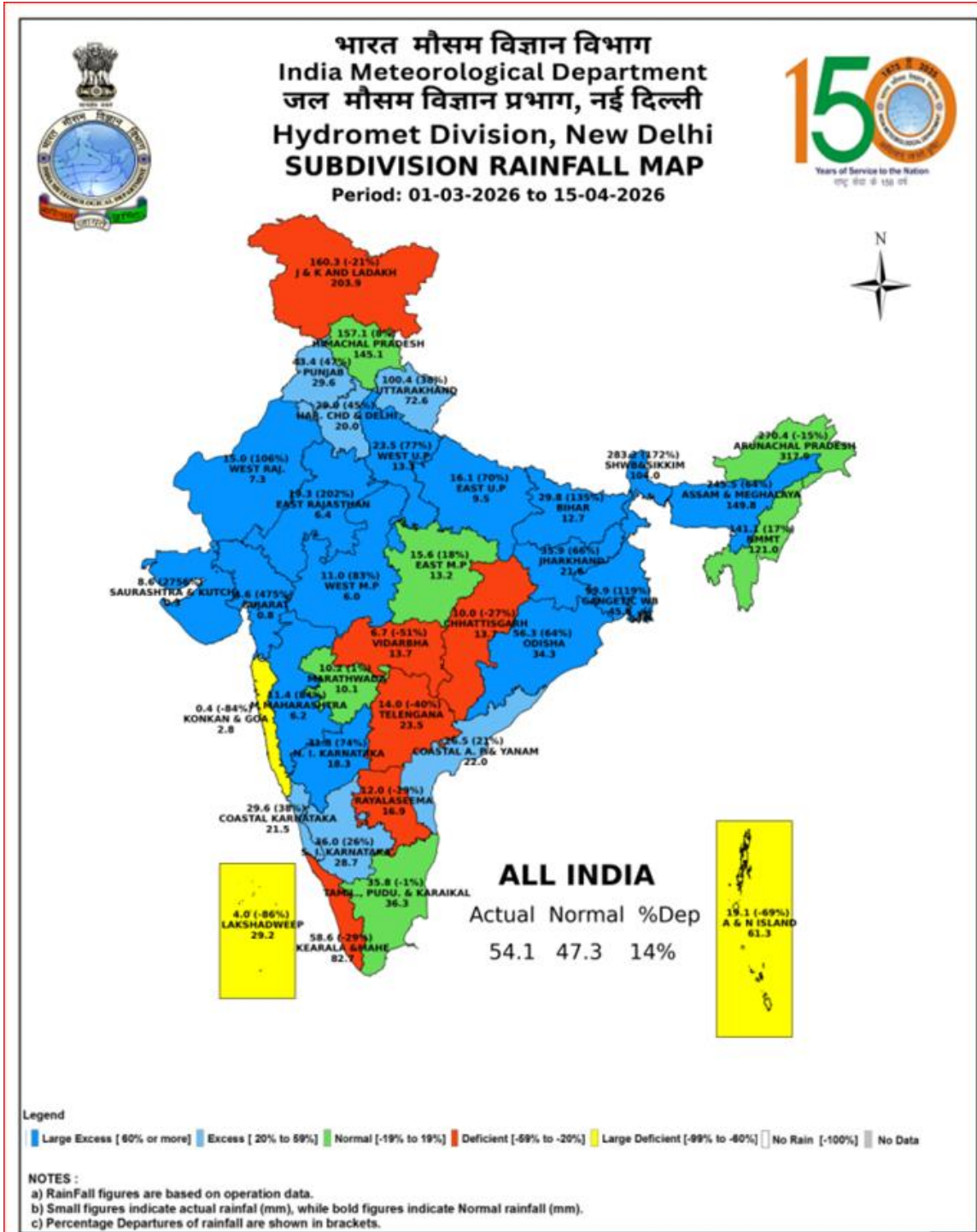
Forecast of minimum/night temperatures: No warm night conditions are likely during week 1. However, above-normal minimum temperatures (+1.6 to +3.0°C) are

likely over Ladakh, Maharashtra & Goa states, Sub-Himalayan West Bengal & Assam. Near-normal weekly minimum temperatures are likely across the rest of the country

Temperature forecast for Week 2 (24 to 30 April 2026):

- ❖ **Low Probability of Heatwave conditions likely during some days of week 2 over central & adjoining south peninsular parts of the country (Madhya Pradesh, East Rajasthan, southern parts of Uttar Pradesh, Chhattisgarh, Jharkhand, & Vidarbha).** Appreciably above normal (+3.1 to +5.0°C) maximum temperatures are likely over some parts of Jammu & Kashmir, and above-normal maximum temperatures (+1.6 to +3.0°C) are likely over most parts of Northwest & Central India, and many parts of the East & Northeast, and the West coast of India. Near-normal weekly maximum temperatures are likely in isolated places over the rest of the country (Annexure V).
- ❖ **No warm night conditions likely during week 2.** However, above-normal minimum temperatures (+1.6 to +3.0°C) are likely over parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, north Rajasthan & north Madhya Pradesh, and Maharashtra & Goa states. Near-normal weekly minimum temperatures are likely across the rest of the country (Annexure VI).

Impact expected and action suggested due to Thunderstorms/ Hailstorms/ Lightning, squally winds, Heavy rainfall, Hot & Humid weather and above normal temperatures along with respective Agromet advisories are given in Annexure VII.

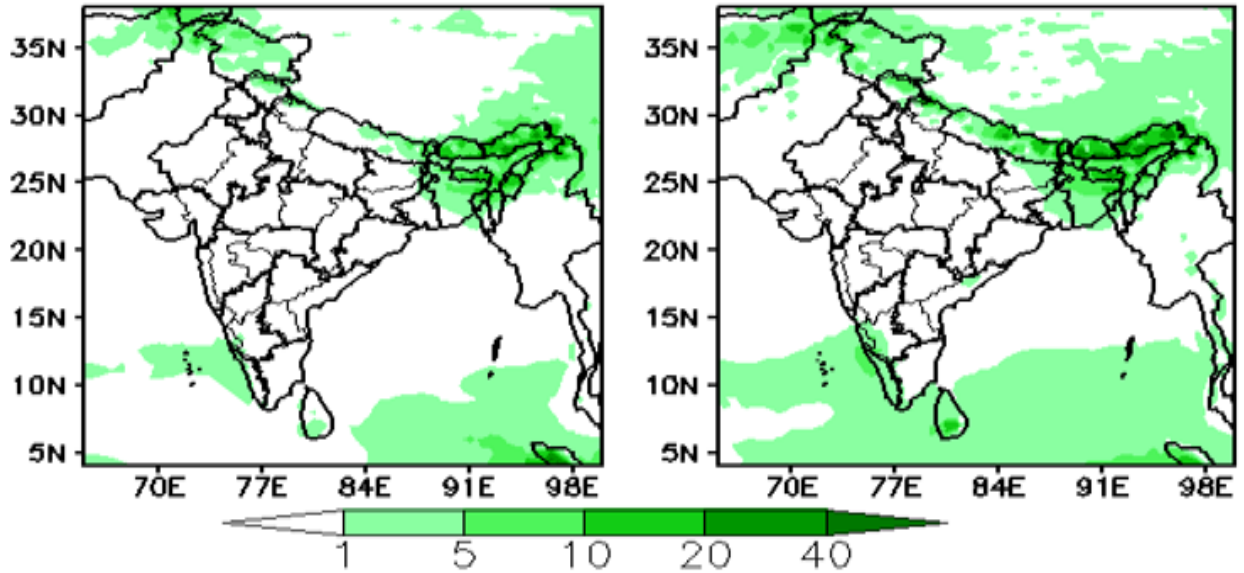


Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z16Apr-00Z23Apr)

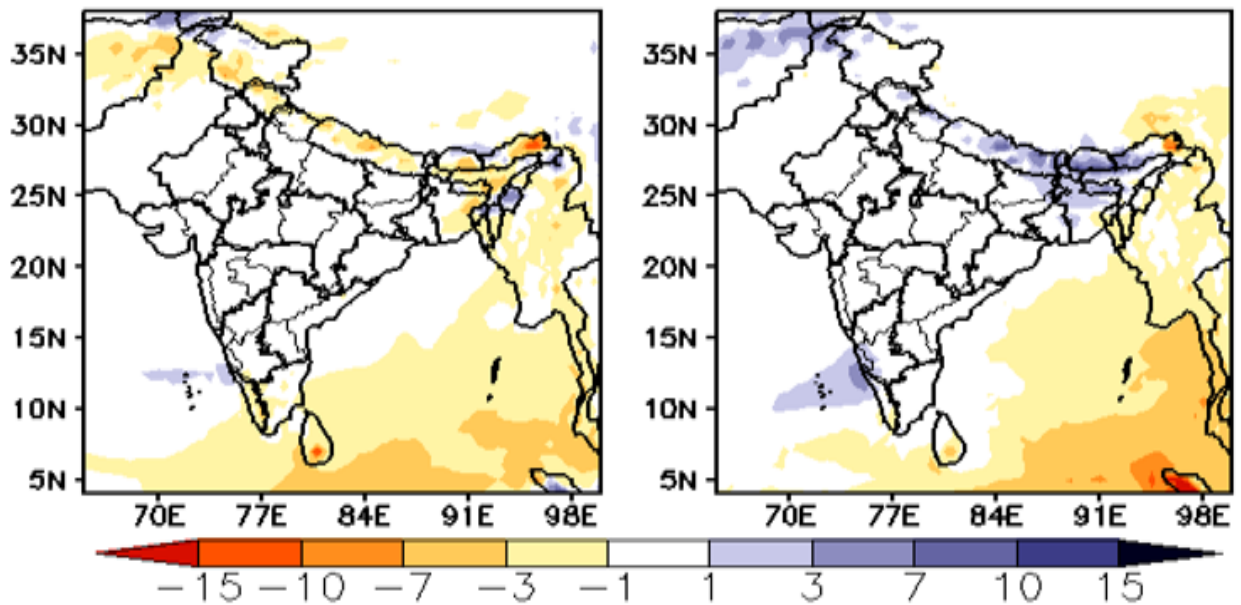
(Week2:00Z23Apr-00Z30Apr)



Forecast Rainfall Anomaly (mm/day) (00Z=0530 hrs IST)

(Week1:00Z16Apr-00Z23Apr)

(Week2:00Z23Apr-00Z30Apr)

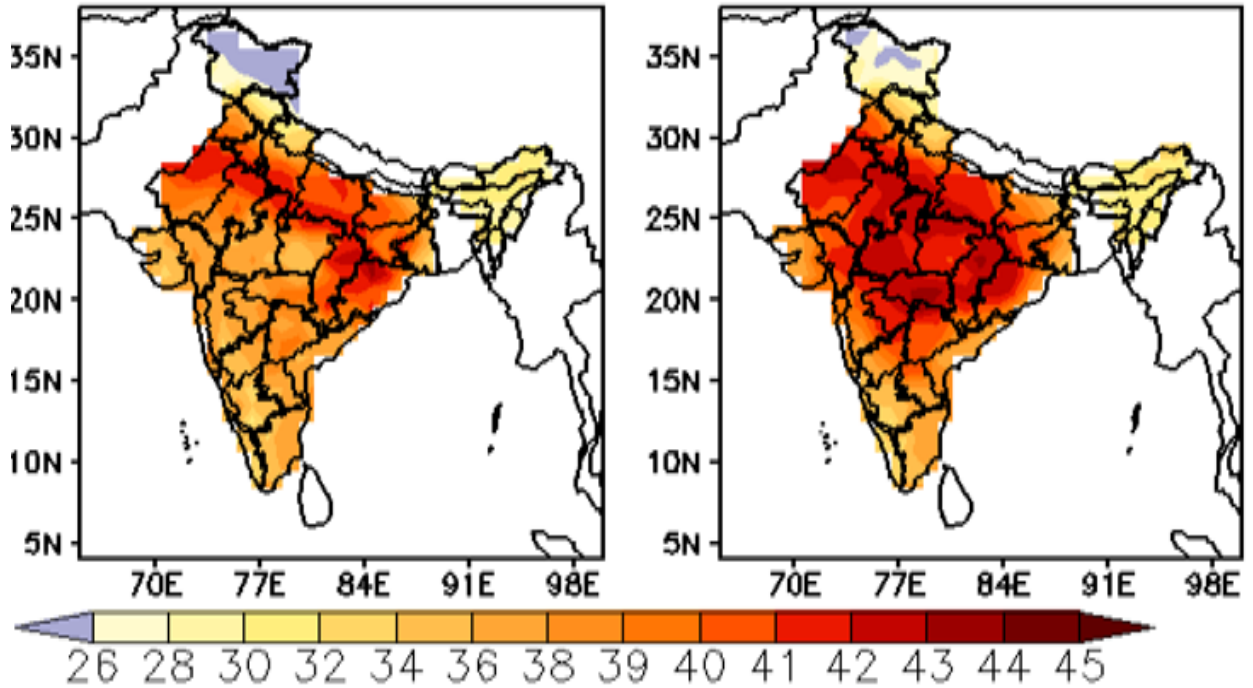


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

(Week1: 17Apr-23Apr)

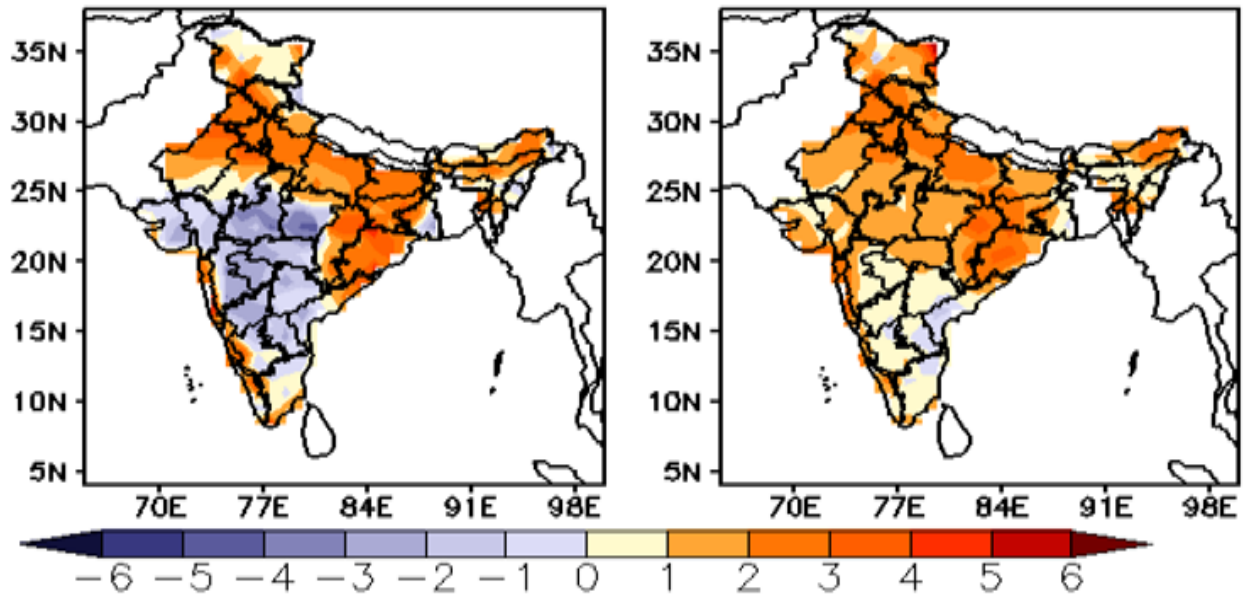
(Week2: 24Apr-30Apr)



MME forecast Tmax anomaly (Deg C)

(Week1: 17Apr-23Apr)

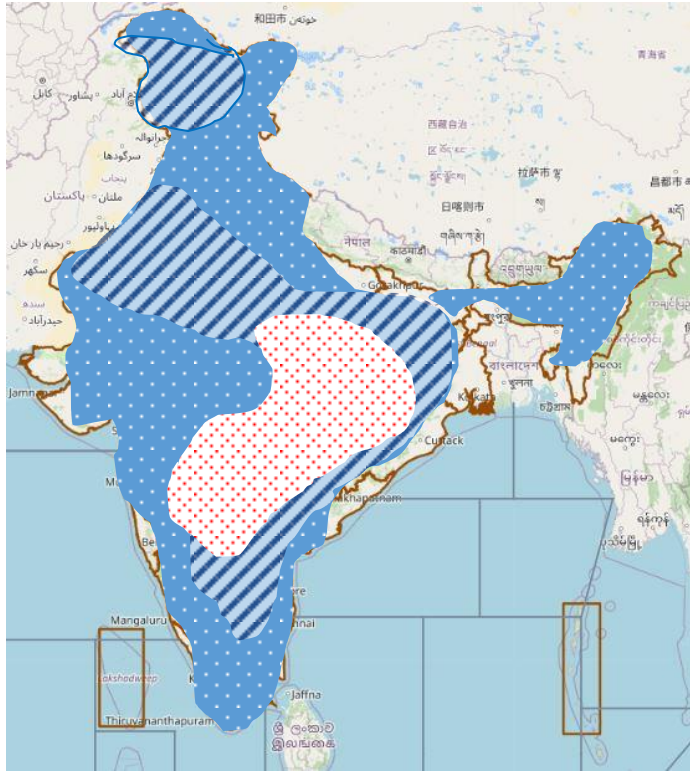
(Week2: 24Apr-30Apr)



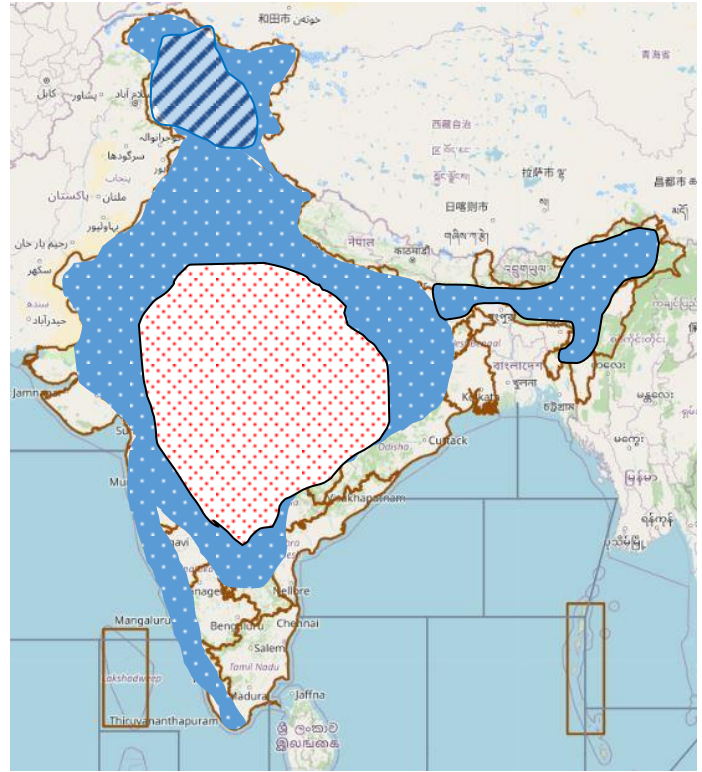
Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

EXTENDED RANGE OUTLOOK FOR HEATWAVE & MAXIMUM TEMPERATURES

Week 1: 17.04.2026- 23.04.2026



Week2: 24.04.2026- 30.04.2026

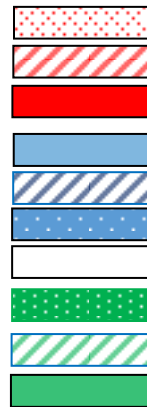


PROBABILITY OF HEATWAVE

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

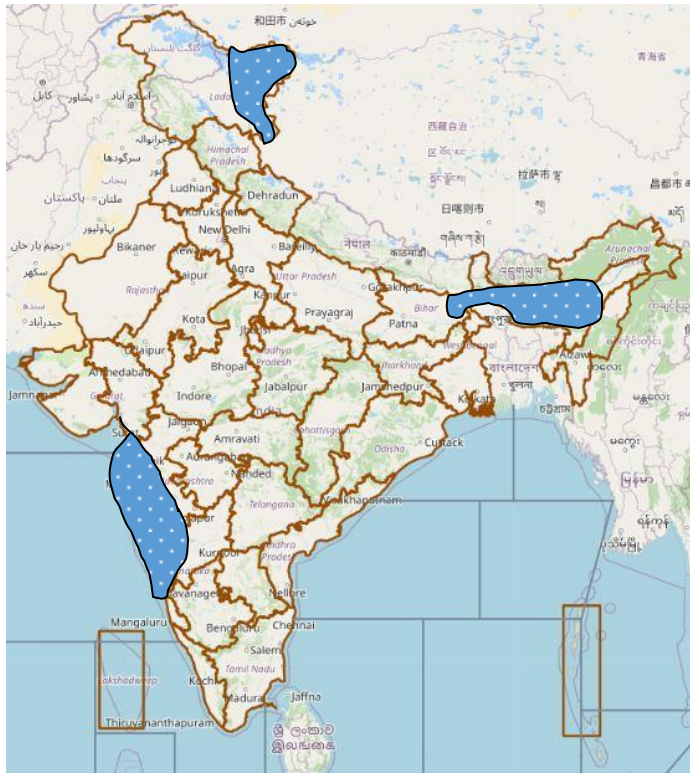
- Markedly Above Normal Maximum Temperatures (>+5.1°C)**
- Appreciably Above Normal Maximum Temperatures (+3.1 to +5.0°C)**
- Above Normal Maximum Temperatures (+1.6 to +3.0°C)**
- Normal Maximum Temperature (+1.5 to -1.5°C)**
- Below Normal Maximum Temperatures (-1.5 to -3.0°C)**
- Appreciably below Normal Maximum Temperatures (-3.1 to -5.0°C)**
- Markedly below Normal Maximum Temperatures (-5.1°C or lesser)**

CONFIDENCE

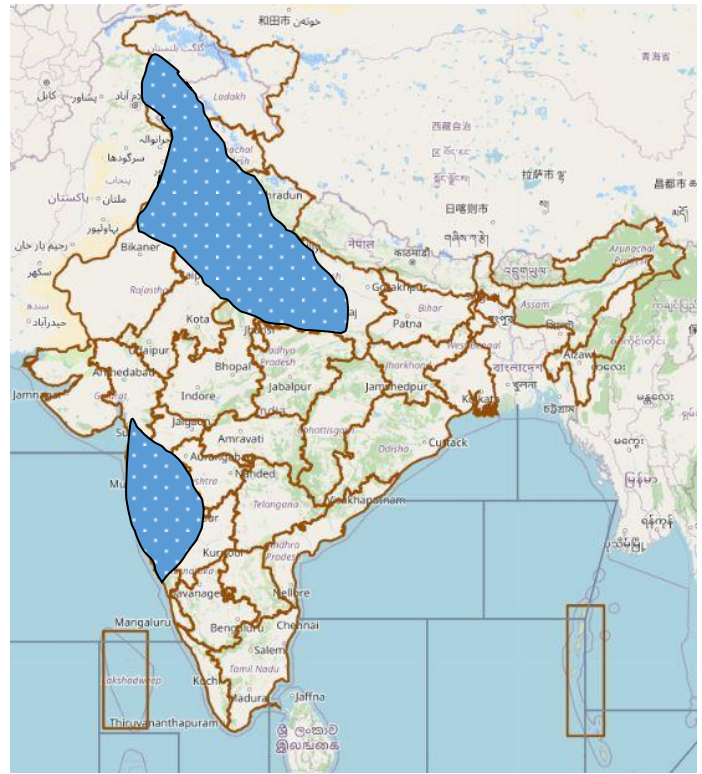


EXTENDED RANGE OUTLOOK FOR WARM NIGHT & MINIMUM TEMPERATURES

Week 1: 17.04.2026- 23.04.2026



Week2: 24.04.2026- 30.04.2026



PROBABILITY OF Warm Night

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)

Markedly Above Normal Minimum Temperatures (>+5.1°C)

Appreciably Above Normal Minimum Temperatures (+3.1 to +5.0°C)

Above Normal Minimum Temperatures (+1.6 to +3.0°C)

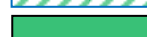
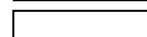
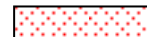
Normal to Below Normal Minimum Temperature (+1.5 to -1.5°C)

Below Normal Minimum Temperatures (-1.5 to -3.0°C)

Appreciably below Normal Minimum Temperatures (-3.1 to -5.0°C)

Markedly below Normal Minimum Temperatures (-5.1°C or less)

CONFIDENCE



Impact expected and action suggested due to isolated thunderstorm with lightning/squally winds & Hailstorm over

- ❖ Isolated **Hailstorm activity** likely over Mizoram on 16th, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 17th April
- ❖ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Gangetic West Bengal on 16th April.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

Impact Expected & Action Suggested due to heavy rainfall over

- ❖ **Isolated heavy rainfall** likely over Arunachal Pradesh during 18th -20th; Assam & Meghalaya during 16th -19th, Sub-Himalayan West Bengal & Sikkim on 18th April.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Agromet advisories for likely impact of Hailstorms

- In **Jammu & Kashmir** and **Himachal Pradesh**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- Undertake harvesting of matured crops, fruits and vegetables immediately and shift them to safer places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and shift the harvested produce to safe places. Ensure proper drainage channels in the fields of rice, maize, other standing crops, vegetables, and orchards.
- In **Assam and Meghalaya**, make necessary arrangements to remove excess rainwater from the crop fields.

Agromet advisories for likely impact of High temperatures/ Heat Waves

- **Maharashtra** - In **Konkan**, irrigate green gram, vegetables, and newly planted arecanut and coconut. In **Madhya Maharashtra**, apply light and frequent irrigation to sugarcane, summer groundnut, vegetables, banana, and orchards. Cover banana bunches with leaves. In **Marathwada**, provide light, frequent irrigation to crops such as maize, summer groundnut, sesame, orchards, and vegetables during the morning and evening hours. In **Vidarbha**, apply need-based light and frequent irrigation to summer green gram, groundnut, onion, sunflower, sesame, fodder crops, orchards, and vegetables during cooler hours. Use straw mulch in vegetable and orchard crops to reduce evaporation, and install shade nets for newly planted crops.
- **Gujarat** – **Apply light and frequent irrigation to standing crops like cluster bean, cucumber, ridge gourd, bottle gourd, sponge gourd, and bitter gourd during morning or evening hours. Irrigate groundnut at the flowering and pegging stages.**
- **Odisha**- Provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut, and vegetable fields. Ensure adequate soil moisture is maintained in mango and cashew crops.
- **Madhya Pradesh** - Apply light irrigation to maize, *moong*, *urd*, groundnut and vegetable crops as per requirement.
- **Chhattisgarh** - Apply light irrigation after weeding and hoeing in *rabi* maize, banana, and papaya plantations. Complete harvesting of wheat and chickpea, and ensure safe storage.
- **Andhra Pradesh**- Provide light irrigation to maintain adequate moisture in standing crops such as paddy, *rabi* maize, sorghum, chickpea, groundnut, sesame, sugarcane, vegetables, and fruit orchards.
- **Telangana** - Provide irrigation to mango orchards and vegetable crops, as required.
- **Karnataka** - Provide protective irrigation to standing crops such as sugarcane, sesame, green gram, black gram, arecanut, vegetables, and nurseries.
- In regions experiencing hot and humid conditions, including **Tamil Nadu, Kerala, and Gangetic West Bengal**, apply light irrigation to summer crops and vegetables to maintain soil moisture
- Apply mulching to conserve soil moisture in the standing crops.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.
- In regions with high temperatures and heat waves, provide clean, hygienic, and ample drinking water for animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects.