



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**

**Press Release  
Date: 01<sup>st</sup> April, 2023  
Time of Issue: 1315 hours IST**

**Subject: I) Rainfall with thunderstorm/hailstorm over Western Himalayan Region & East India today, the 01<sup>st</sup> April and a over Northeast India on 01<sup>st</sup> & 02<sup>nd</sup> April.  
II) A fresh spell of rainfall/thunderstorm activity over Northwest India on 03<sup>rd</sup>-04<sup>th</sup> April**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure I**

**Weather Forecast and Warnings (Graphics in Annexure II):**

- ❖ A **Western Disturbance** as a cyclonic circulation lies over Jammu & Kashmir in low-mid tropospheric levels. A trough in westerlies runs along Long.75°E to the north of lat. 25°N.
- ❖ A cyclonic circulation lies over northeast Rajasthan adjoining Haryana in lower tropospheric levels.
- ❖ A fresh Western Disturbance very likely to affect northwest India from night of 02<sup>nd</sup> April.
- ❖ A trough runs from south Odisha to north interior Tamil Nadu in lower tropospheric levels.
- ❖ A cyclonic circulation lies over south Assam & neighbourhood in lower tropospheric levels
- ❖ **Under the influence of above synoptic features, following weather is expected:**

**Northwest India:**

- **Rainfall/thunderstorm, lightning/gusty winds along with isolated hailstorm** very likely over **Western Himalayan region** today, the 01<sup>st</sup> April and significant reduction tomorrow. **A fresh spell of rainfall/thunderstorm and hail storm, lightning** very likely over Northwest India on 03<sup>rd</sup> & 04<sup>th</sup> April.

**East India:**

- Scattered thunderstorm, lightning/gusty winds (40-50 kmph) likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha today, the 01<sup>st</sup> April and significant reduction thereafter. Isolated **heavy rainfall and hail storm** also likely over Sub-Himalayan West Bengal & Sikkim today, the 01<sup>st</sup> April.

**Northeast India:**

- Fairly widespread to widespread light/moderate rainfall/thunderstorm, lightning, gusty winds very likely to continue over Northeast India during 01<sup>st</sup>-05<sup>th</sup> April.
- Isolated **heavy rainfall** likely over the region on 01<sup>st</sup> & 02<sup>nd</sup> April.
- Isolated **hailstorm** likely over east Assam and Arunachal Pradesh on 01<sup>st</sup> April.

**South India:** Isolated to scattered light/moderate rainfall/thunderstorm, lightning/gusty winds very likely over Andhra Pradesh, Telangana, South Interior Karnataka, Tamil Nadu and Kerala during next 5 days. Isolated **heavy rainfall** likely over interior Tamil Nadu today, the 01<sup>st</sup> April.

**Central & West India:** No significant weather is expected over the region during next 5 days.

**Maximum Temperatures Forecast during next 5 days:**

- ❖ Maximum temperatures are below normal by 2-4°C over most parts of the country. It is likely to be near normal during next 5 days.
- ❖ **No heat wave likely over any part of country during next 5 days.**

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

- **01<sup>st</sup> April:** Uttarakhand, east Assam, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim
- **03<sup>rd</sup> April:** Himachal Pradesh, Uttarakhand
- **04<sup>th</sup> April:** Uttarakhand

**Impact expected:**

- 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:**

- 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.

**Advisory for farmers:**

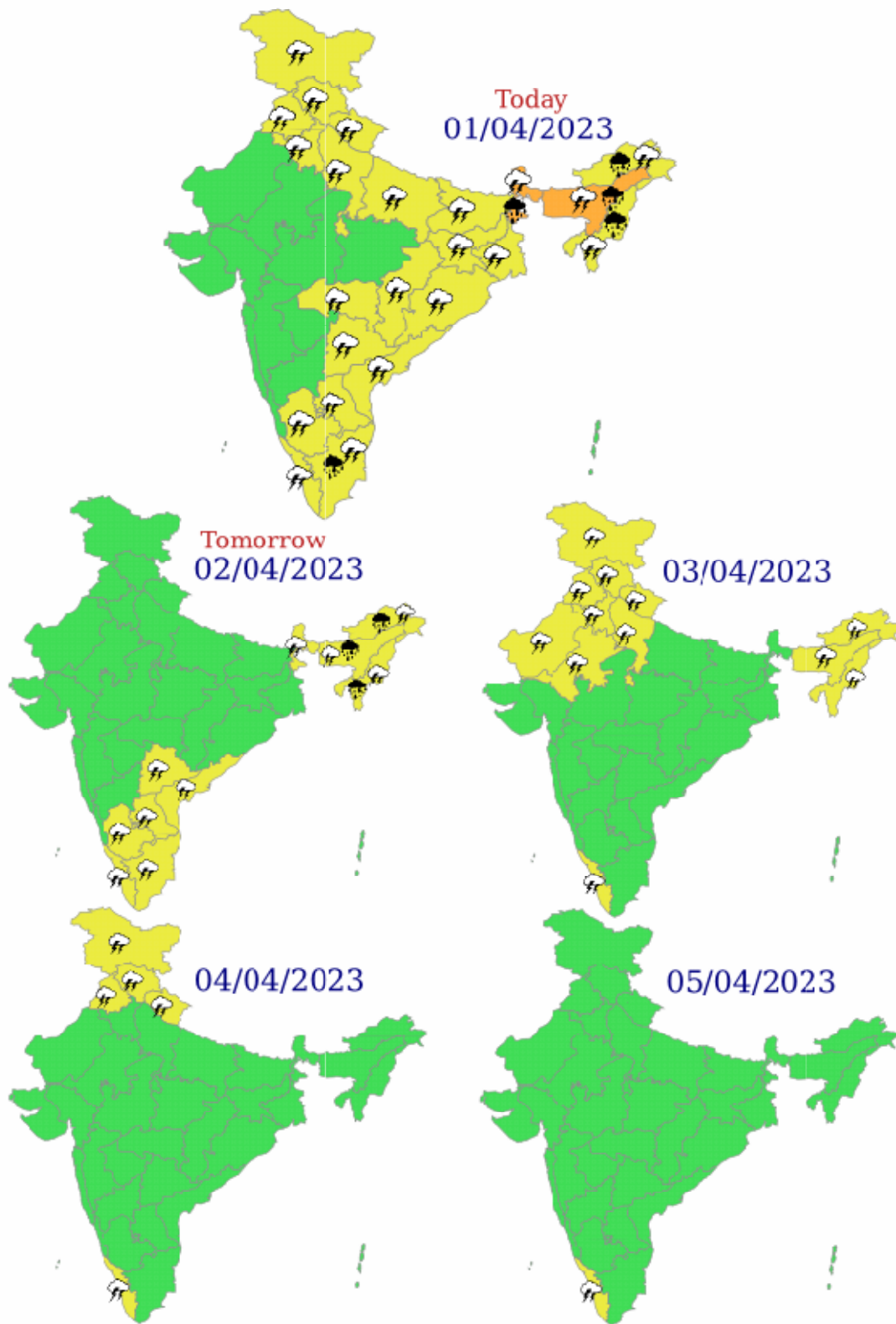
- Postpone harvesting of matured crops in Arunachal Pradesh; keep already harvested produce in a safe place or cover the heaps of already harvested produce in the field with tarpaulin sheets.
- Resume harvesting of matured crops in Punjab, Haryana, Uttar Pradesh and Jharkhand during clear weather.
- Postpone sowing of maize in Arunachal Pradesh.
- Drain out excess water from crop fields.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchard in Arunachal Pradesh, Assam & Meghalaya, Sub Himalayan West Bengal, and Uttarakhand.

For more details kindly refer:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)

<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

- ❖ **Light/moderate rainfall/thundershowers** observed at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Jharkhand and West Bengal & Sikkim; **at many places** over Vidarbha, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura and East Rajasthan; **at a few places** over West Rajasthan, East Madhya Pradesh and Assam & Meghalaya and **at isolated places** over West Madhya Pradesh, Arunachal Pradesh, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heavy rainfall** occurred at isolated over Uttarakhand, Uttar Pradesh, Odisha and South Interior Karnataka.
- ❖ **Hailstorm** observed at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim.
- ❖ **Thundersquall/gusty winds** reported at isolated places over West Bengal.
- ❖ **Significant amount of rainfall (in cm):**
  - **Odisha:** Kandhamal, Cuttack-7 each, Nayagarh, Dhenkanal, Ganjam-6 each, Kendrapara-5
  - **Sub-Himalayan West Bengal & Sikkim:** east Sikkim-5, Jalpaiguri-4
  - **Gangetic West Bengal:** South 24 Parganas-4
  - **Assam:** Barpeta-5
  - **Tripura:** West Tripura-5
  - **Jammu:** Baramula, Bandipore, Jammu, Kathua, Rajouri-2 each
  - **Uttarakhand:** Kashipur-10, Nainital, Bhimtal-8 each, Haldwani-6, Dhanaulti-5, Almora, Mussoorie, Lansdown-4 each, Bagheswar, Uttarkashi-3, Champawat, Chamoli-2 each
  - **Himachal Pradesh:** Solan, K Kangra, Shimla, Sirmour-4 each, Mandi, Kullu, Chamba-3 each
  - **West Rajasthan:** Nagaur-3
  - **East Rajasthan:** Ajmer-5, Dholpur, Sikar, Jhunjhunu-3 each, Jaipur, Tonk, Alwar, Dausa-2 each
  - **East Uttar Pradesh:** Baharaich, Bbarabanki-7 each, Lucknow, Kheri-4 each, Prayagraj, Unnao, Mirzapur-3 each
  - **West Uttar Pradesh:** Bareilly-8, Rampur, Etah-4 each, Moradabad, Aligarh, Shahjahanpur-3 each
  - **Haryana:** Panipat-6, Bhiwani-5, Mahendragarh, Nuh, Panchkula, Kurukshetra, Yamuna Nagar-3 each
  - **Punjab:** Ferozepur-4, Pathankot-3
  - **Chhattisgarh:** Durg-4, Bastar, Balrampur, Raigarh-3 each
  - **South Interior Karnataka:** Kolar-7, Bengaluru rural-3
  - **Telangana:** Mulugu-4, Kothagudem-3



**Legends:**

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

<b>SPATIAL DISTRIBUTION</b> (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

<b>WARNING</b>
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

<b>Probabilistic Forecast</b>	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

 Heavy Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State