



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

**Press Release
Date: 03rd April, 2023
Time of Issue: 1300 hours IST**

Subject: Rainfall/thunderstorm with hailstorm activity likely over Northwest India today and significant reduction thereafter.

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 east Iran & neighbourhood in middle tropospheric levels.
- ❖ A trough in mid tropospheric westerlies runs along Long.89°E to the north of lat. 25°N.
- ❖ A cyclonic circulation lies over West Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from Vidarbha to south Tamil Nadu in lower tropospheric levels.
- ❖ A cyclonic circulation lies over northeast Bangladesh & neighbourhood in lower tropospheric levels
- ❖ **Under the influence of above synoptic features, following weather is expected:**

Northwest India:

- Scattered to widespread light/moderate rainfall with thunderstorm, lightning over Western Himalayan region on 03rd & 04th April.
- Isolated to scattered light/moderate rainfall with thunderstorm over plains of northwest India on 03rd & 04th April.
- Isolated **hailstorm** very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana and north Rajasthan on 03rd April.

East & Northeast India:

- Scattered to fairly widespread light/moderate rainfall/thunderstorm, lightning, gusty winds very likely to continue over Northeast India and Sub Himalayan West Bengal & Sikkim till 05th April and gradual reduction thereafter.
- Isolated **heavy rainfall** likely over Arunachal Pradesh and Assam & Meghalaya on 03rd April.

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

Maximum Temperatures Forecast during next 5 days:

- ❖ Maximum temperatures are above normal by 2-4°C over most parts of the country. It is likely to be near normal over most parts of the country 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 over Himachal Pradesh, Uttarakhand, Punjab, Haryana and north Rajasthan on 03rd April.

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:

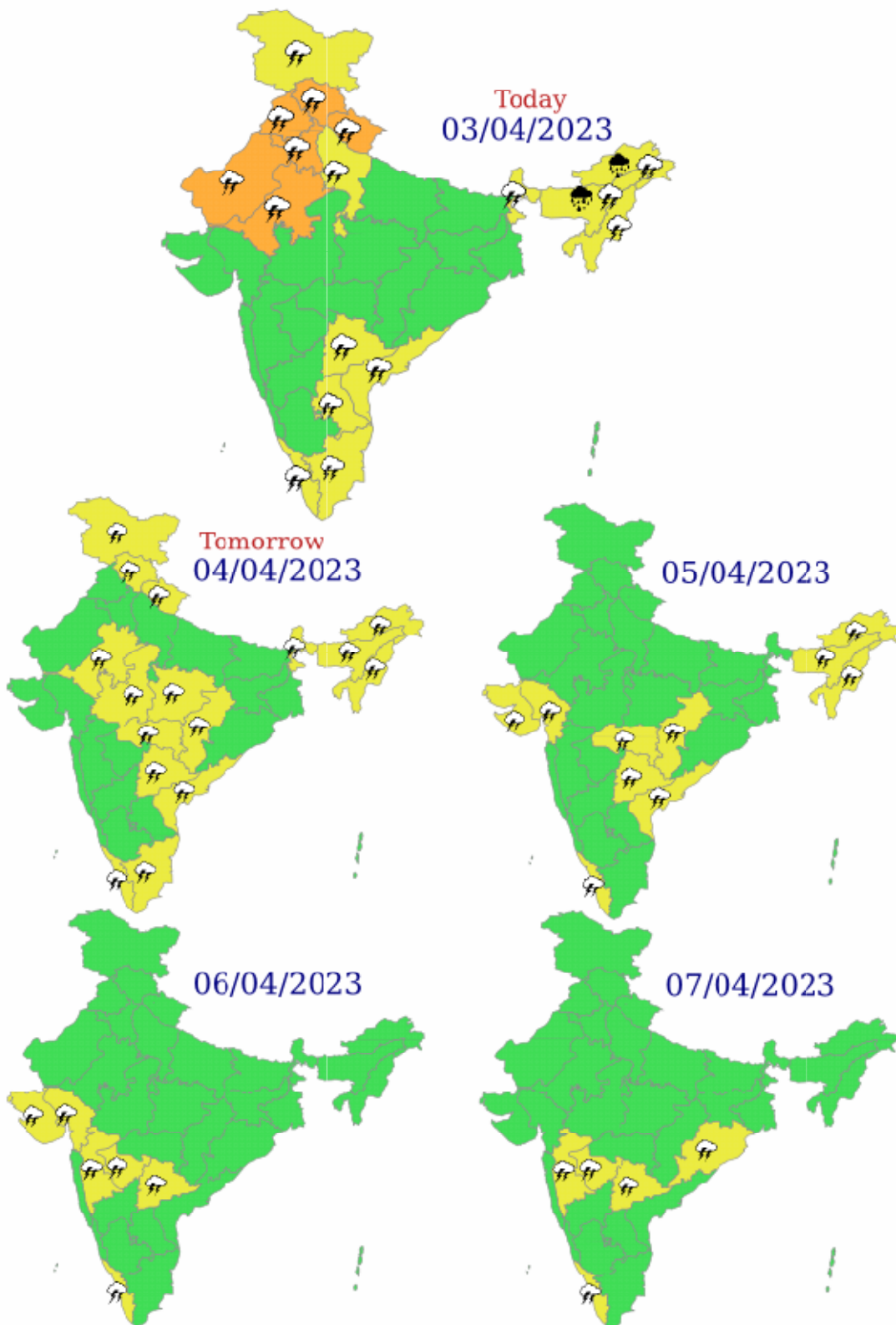
- Postpone harvesting of crops in Arunachal Pradesh, Uttarakhand, Punjab and Haryana; keep already harvested produce in a safe place or cover the heaps of already harvested produce in the field with tarpaulin sheets.
- Postpone sowing of maize in Arunachal Pradesh, Assam and Nagaland.
- Drain out excess water from crop fields in North Eastern States.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand, Punjab, Haryana and West Rajasthan.

For more details kindly refer:

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 Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Gangetic West Bengal, Odisha, Jharkhand, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall** occurred at isolated over Tamilnadu and Assam.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan, West Bengal & Sikkim, Odisha, Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Tripura and Assam & Meghalaya.
- ❖ **Significant amount of rainfall (in cm):**
 - **Assam & Meghalaya:** N.lakhimpur/lilabari (dist Lakhimpur) 8, D/mohanbari Aero (dist Dibrugarh) 7, Mohanbari_aws (dist Dibrugarh) 6, Dhemaji (dist Dhemaji) 6, Lakhipur (dist Cachar) 5, Udaipur (dist Tinsukia) 5,
 - **Arunachal Pradesh:** Tuting (dist Upper Siang) 6, Deomali_aws (dist Tirap) 5, Deomali (dist Tirap) 4,
 - **NMMT:** Tamenglong (dist Tamenglong) 6, Kailashahar Aero (dist Unakoti) 6, Serchip(hydro) (dist Serchhip) 6, Kolasib Agri (dist Kolasib) 5, Champai Agri (dist Champhai) 5, Lunglei (dist Lunglei) 5,
 - **Coastal Andhra Pradesh:** Vizianagaram (dist Vizianagaram) 5, Polavaram (dist Eluru) 4, Gudivada (dist Krishna) 3, Denkada (dist Vizianagaram) 3,
 - **Tamilnadu:** Valparai PTO (dist Coimbatore), Valparai PAP (dist Coimbatore) 8 each, Valparai Taluk Office (dist Coimbatore) 7, R.K.Pet (dist Tiruvallur), Karaikal (dist Karaikal) 4 each, Vedaranyam (dist Nagapattinam), Cincona (dist Coimbatore), Thekkadi (dist Theni) 3 each,
 - **Kerala:** Kanjirappally (Kottayam district) 4,
 - **Nicobar Islands:** Nicobar-5,
 - **Sikkim:** East Sikkim-3,
 - **Odisha:** Balasore, Rayagada-2 each,



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.

SPATIAL DISTRIBUTION (% 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)

WARNING
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast	
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