



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

**Press Release
Date: 29th March, 2023
Time of Issue: 1245 hours IST**

Subject: A fresh spell of Rainfall/thunderstorm/hailstorm over Northwest, East and Northeast India during 30th March to 01st April, 2023.

**Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure 1
Weather Forecast and Warnings (Graphics in Annexure II):**

- ❖ A **Western Disturbance** seen as a cyclonic circulation over Afghanistan with trough aloft in middle tropospheric levels roughly along Long. 60°E to the north of Lat. 25°. Another cyclonic circulation lies over southwest Rajasthan in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from central parts of north Madhya Pradesh to south Tamil Nadu in lower tropospheric levels.

❖ **Under the influence of above synoptic features, following major weather is expected:**

Northwest India: Scattered to fairly widespread **rainfall/thunderstorm activity** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and East Rajasthan during 30th March-01st April, 2023. Isolated **hailstorm activity** also likely over the region on 30th & 31st March, 2023.

Central India: Isolated **rainfall/thunderstorm activity** very likely over Madhya Pradesh, Vidarbha and Chhattisgarh on 30th & 31st and Isolated **hailstorm** is likely over Chhattisgarh on 31st March, 2023.

East India: Scattered to fairly widespread **rainfall/thunderstorm activity** very likely over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during 30th March-01st April. Isolated **heavy rainfall** also likely over Odisha on 31st March. Isolated **hailstorm** is likely over the region on 31st March, 2023.

Northeast India: Scattered to fairly widespread light/moderate rainfall activity **with thunderstorm & lightning/gusty winds** very likely to continue over Northeast India during 29th-02nd April 2023. **Isolated heavy rainfall** also likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during on 31st March - 02nd April; over Arunachal Pradesh on 01st & 02nd April, 2023.

Maximum Temperatures Forecast during next 5 days:

- ❖ **Northwest India:** No significant change in Maximum Temperatures very likely during next 24 hours and fall by 2-4°C thereafter during subsequent 4 days.
- ❖ **East India:** No significant change in Maximum Temperatures very likely during next 2 days and fall by 2-4°C thereafter during subsequent 3 days.
- ❖ **West India:** No significant change in Maximum Temperatures very likely over Maharashtra during next 3 days and rise by 2-3°C thereafter during subsequent 3 days.
- ❖ **Rest parts of the country:** No significant change in Maximum Temperatures very likely 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

- **30th March:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan
- **31st March:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim
- **01st 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.

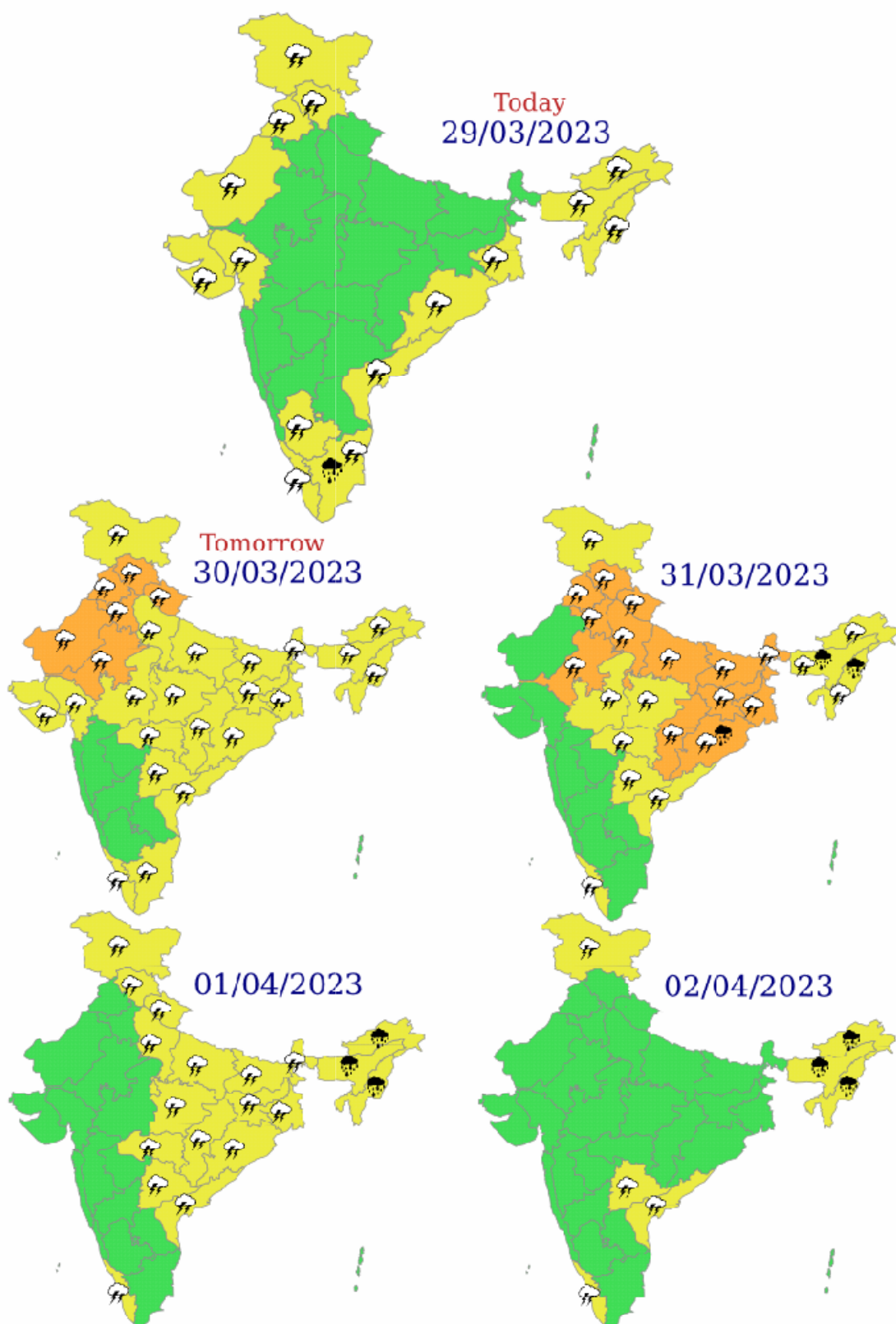
Advisory for farmers:

- 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.
- Complete the harvesting of matured crops in Jammu, Himachal Pradesh, Punjab, Haryana, Uttarakhand, Uttar Pradesh and Rajasthan during clear weather.
- Postpone sowing of maize in Arunachal Pradesh.
- Drain out excess water from crop fields and provide mechanical support to horticultural crops as well as staking to vegetables in Northeast India.

For more details kindly refer:

https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php.

- ❖ **Light/moderate rainfall/thundershowers** observed at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; **at a few places** over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Telangana.
- ❖ **Very heavy rainfall** occurred at isolated over Tamilnadu.
- ❖ **Hailstorm** observed at isolated places over Mizoram and Telangana.
- ❖ **Significant amount of rainfall (in cm):**
 - **Tamilnadu:** Alakarai Estate (dist Nilgiris) 14, Kunderipallam (dist Erode) 10, Coonoor (dist Nilgiris) 8, Adar Estate (dist Nilgiris), Burliar (dist Nilgiris) 7
 - **Coastal Andhra Pradesh & Yanam:** Yerragondapalem (dist Prakasam) 4, Srungavarapukota (dist Vizianagaram) 4, Macherla (dist Palnadu) 3, Vepada (dist Vizianagaram) 2
 - **Arunachal Pradesh:** Tuting (dist Upper Siang) 2, Tawang (dist Tawang) 2, Tawang_ Aws (dist Tawang) 2,
 - **Assam:** Matijuri (dist Hailakandi) 3,
 - **NMMT:** Kamalpur (dist Dhalai) 5, Lengpui (dist Aizawl) 3, Khowai (dist Khowai) 3, Kvk Dhalai (dist Dhalai) 3, Kanchanpur (dist North Tripura) 3,
 - **Sikkim:** East Sikkim-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.

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