

Government of India Ministry of Earth Sciences India Meteorological Department

Press Release Date: 31st March, 2023

Time of Issue: 1315 hours IST

Subject: Rainfall with thunderstorm/hailstorm over Northwest & East India on today, the 31st March 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 north Pakistan in lower & midtropospheric levels. A cyclonic circulation lies over northwest Rajasthan in lower tropospheric levels
- ❖ A fresh Western Disturbance very likely to affect northwest India from night of 2nd April.
- A wind discontinuity runs from central parts of Uttar Pradesh to Telangana in lower tropospheric levels
- The other trough from Sub-Himalayan West Bengal to north Odisha 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:

- Fairly widespread to widespread rainfall/thunderstorm, lightning/gusty winds along with isolated hailstorm very likely over Northwest India on today, the 31st March and significant reduction thereafter till 02nd April.
- Isolated heavy rainfall very likely over Western Himalayan Region on 31st March.
- A fresh spell of scattered to fairly widespread rainfall/thunderstorm, lightning very likely over the region on 03rd April. Isolated hailstorm likely over Himachal Pradesh, Uttarakhand, Punjab and Harvana on 03rd April, 2023

East India:

- Scattered to fairly widespread rainfall/thunderstorm, lightning/gusty winds very likely over the region on 31st March & 01st April.
- Isolated hailstorm likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha on today, the 31st March.
- Isolated heavy rainfall also likely over West Bengal & Sikkim and north Odisha on today, the 31st March.

Northeast India:

- Fairly widespread to widespread light/moderate rainfall/thunderstorm, lightning, gusty winds very likely to continue over Northeast India during 31st March-04th April.
- Isolated **heavy rainfall** likely over Assam & Meghalaya during 31st March- 02nd April; over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 01st & 02nd April.
- Isolated hailstorm likely over Assam & Meghalaya on 31st March & 01st April.

Central India: Isolated **rainfall/thunderstorm, lightning/gusty winds** very likely over the region on 31st March. Isolated **hailstorm** also likely over East Madhya Pradesh and Chhattisgarh on today, the 31st March.

South & 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 below normal to 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

- **31**st **March:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya.
- 01st April: Uttarakhand, Assam & Meghalaya
- 03rd April: Himachal Pradesh, Uttarakhand, Punjab, Haryana

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:

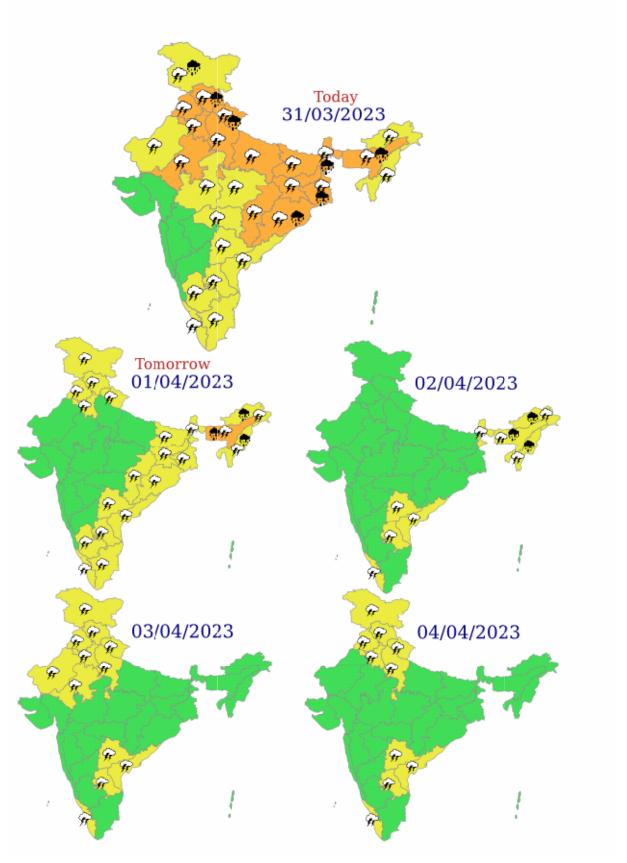
- Postpone harvesting of matured crops in Arunachal Pradesh, Punjab and Haryana; keep already harvested produce in a safe place or cover the heaps of already harvested produce in the field with tarpaulin sheets.
- Complete the harvesting of matured crops in Jammu, Uttar Pradesh, Uttarakhand and Rajasthan during clear weather; keep the harvest at safe place or cover the harvested produce in the fields.
- Postpone sowing of maize in Arunachal Pradesh.
- Make arrangements to drain out excess water from crop fields.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchards.

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 Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Gangetic West Bengal; at many places over Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh and East Rajasthan; at a few places over West Rajasthan, East Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and Nagaland, Manipur, Mizoram & Tripura and at isolated places over West Madhya Pradesh, Vidarbha, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat state, Konkan & Goa, Telangana, Rayalaseema, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heavy rainfall occurred at isolated over Gangetic West Bengal and Odisha.
- Thunderstorm observed at isolated places over Jammu & Kashmir, Uttarakhand, Punjab, Haryana & Delhi, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Tripura and Tamil Nadu, Puducherry & Karaikal.
- Hailstorm observed at isolated places over Uttarakhand, Delhi and Rajasthan.
- **❖** Significant amount of rainfall (in cm):
 - Odisha: Danagadi (dist Jajpur) 7;
 - Gangetic West Bengal: West Midnapore-7, Murshiadabad-4
 - Kerala: Palakkad-5.
 - **Gujarat Region**: Banaskantha-3,
 - Jammu: Jammu, Katra-2 each
 - Uttarakhand: Mussoorie, Narendranagar-3 each
 - Himachal Pradesh: Sirmaur-3West Uttar Pradesh: baghpat-2
 - Haryana: Palwal, Panchkula, Jhajjar-3 each
 - Punjab: Patiala-2

Annexure II



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.

