



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

**Press Release
Date: 29th April, 2023
Time of Issue: 1345 hours IST**

Subject:(i) **Light to moderate rainfall/thunderstorms accompanied with lightning, gusty winds & hailstorms activity over northwest India and isolated heavy rainfall/snowfall over western Himalayan region during 1-3rd May 2023.**
(ii) **Light to moderate rainfall/thunderstorms accompanied with lightning, gusty winds & hailstorms activity over Central and East India during 29th April-02nd May 2023.**
(iii) **Light to moderate rainfall activity over south Peninsular India during next 5 days. Isolated heavy to very heavy rainfall over Ghat areas of Tamil Nadu, Kerala and south interior Karnataka during 29th April-02nd May 2023.**

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

Significant Meteorological features:

- ❖ The **Western Disturbance** as a cyclonic circulation lies over central Pakistan & neighbourhood in middle tropospheric levels.
- ❖ A **cyclonic circulation** lies over Southeast Arabian Sea & adjoining Lakshadweep area in lower tropospheric levels.
- ❖ A **trough** runs from above cyclonic circulation over Southeast Arabian Sea & adjoining Lakshadweep area to south Chhattisgarh across northern parts of Karnataka & Telangana in lower tropospheric levels.
- ❖ A fresh & active **Western Disturbance** is likely to affect Northwest India from the night of 01st May, 2023.

Forecast and warning for next 5 days

Northwest India:

- ❖ Light/moderate scattered/widespread rainfall/snowfall with thunderstorm/lightning very likely over Western Himalayan Region and isolated to scattered rainfall with thunderstorm/lightning over plains of Northwest India during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Himachal Pradesh during 29th April-02nd May; Uttarakhand during next 5 days; over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh during 01st-03rd May; over East Uttar Pradesh on 01st May. **Thunder squall** also likely over Uttarakhand on 02nd & 03rd May.
- ❖ **Heavy rainfall** likely at isolated places over Jammu division and Himachal Pradesh on 01st & 02nd May.
- ❖ **Duststorm** very likely at isolated places over Rajasthan during 02nd-03rd May, 2023.

Central India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over Madhya Pradesh, Vidarbha, Chhattisgarh during next 5 days.
- ❖ **Hailstorm** very likely at isolated places over Vidarbha during 29th April-30th May; over Madhya Pradesh on 29th; Chhattisgarh on 30th April.
- ❖ **Heavy rainfall** very likely at isolated places over Chhattisgarh on 01st & 2nd May.

South India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over Telangana, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe during next 5 days; over Lakshadweep during 29th-30th April.
- ❖ **Hailstorm** very likely at isolated places over Telangana on 29th & 30th and North Interior Karnataka on 29th April.
- ❖ **Very Heavy rainfall** at isolated places over South Interior Karnataka on 30th April & 01st May, and Kerala 30th April; over Rayalaseema & Ghat areas of Tamil Nadu 01st May. **Heavy rainfall** likely at isolated places

Rayalaseema during 29 April- 02nd May; over South Interior Karnataka on 29th; over North Interior Karnataka on 30th April; over Coastal Andhra Pradesh & Yanam on 01st & 2nd May; over Kerala & Ghat areas of Tamil Nadu on during next 5 days.

East India:

- ❖ Light/moderate scattered to fairly widespread **rainfall** with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Hailstorm** very likely at isolated places over Odisha during 29th-01st May; over Jharkhand and Gangetic West Bengal on 30th April & 01st May; over Sub-Himalayan West Bengal & Sikkim on 29th-30 April.
- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim during 29th April-1st May; Odisha on 30th April & 01st May.

Northeast India:

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh during 29th April-02nd May; Assam & Meghalaya during 30th April-02nd May and over Nagaland, Manipur, Mizoram & Tripura during 01st-02nd May.

West India:

- ❖ Light isolated to scattered rainfall with thunderstorm/lightning very likely over Maharashtra & Gujarat State during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Madhya Maharashtra and Marathawada on 29th April.

Maximum Temperatures observed:

- ❖ Yesterday, Maximum Temperatures were below 40°C over most parts of the country.
- ❖ Maximum Temperatures were below normal over most parts of the country.

Maximum Temperatures Forecast and Heat Wave Warnings (Graphics in Annexure II):

- ❖ Maximum temperatures are very likely to be below normal to near normal during next 5 days.
- ❖ **No Heat wave conditions likely over any part of India during next 5 days.**

For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

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

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

- ✓ Vidarbha during 29th April-02nd May; over Madhya Pradesh, Madhya Maharashtra, Marathawada on 29th & Chhattisgarh on 30th April.
- ✓ Jharkhand, Gangetic West Bengal, Odisha on 30th April & 01st May.
- ✓ Uttarakhand during 29th April-03rd May; Himachal Pradesh during 29th April-02nd May; over Punjab, Haryana, West Uttar Pradesh during 01st-02nd April; over East Uttar Pradesh on 01st April.
- ✓ Coastal Andhra Pradesh and Telangana on 30th April & 01st May.

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.

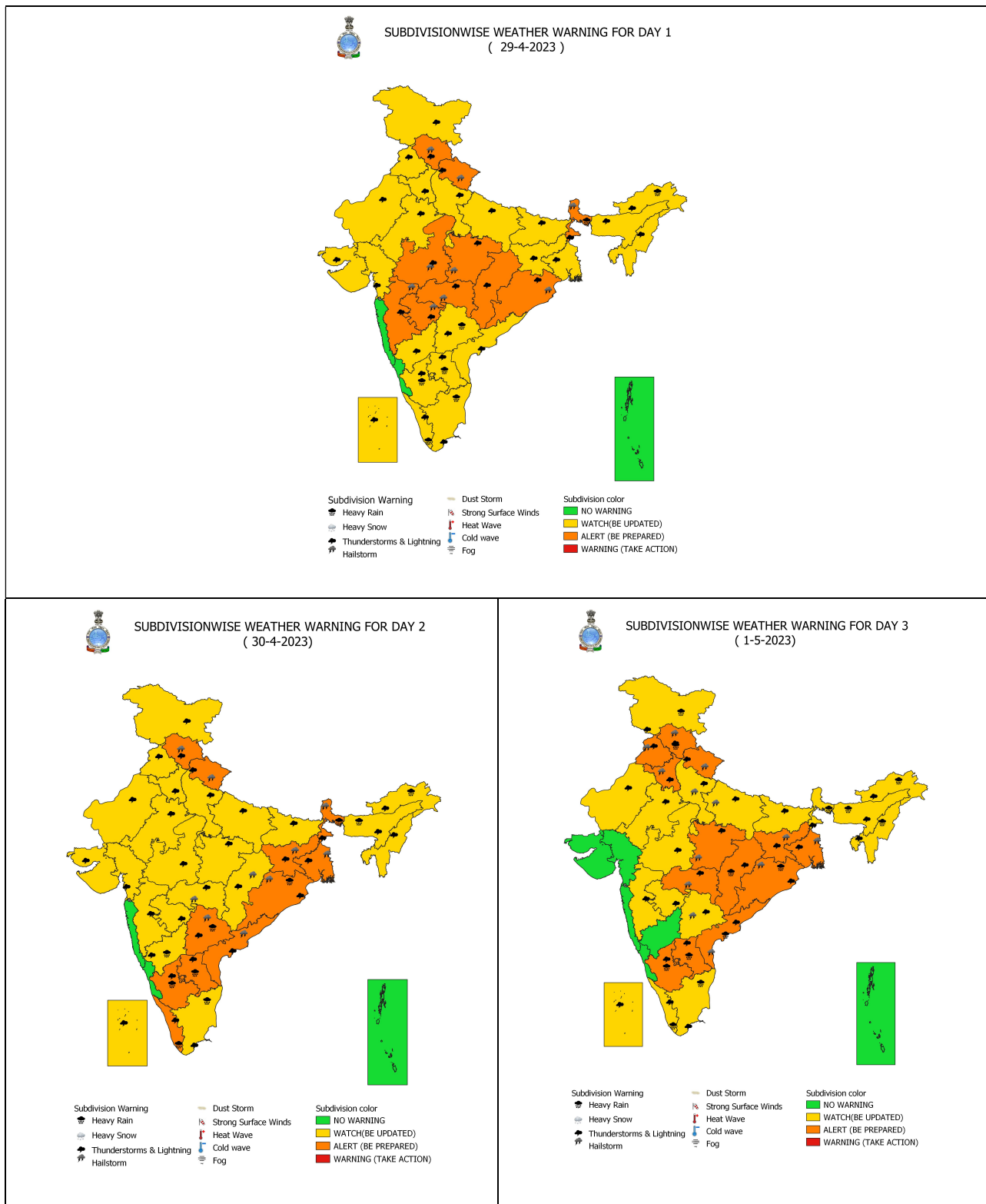
Agromet advisories for thunderstorms/lightning/gusty winds/ Hailstorm likely over various parts of the country:

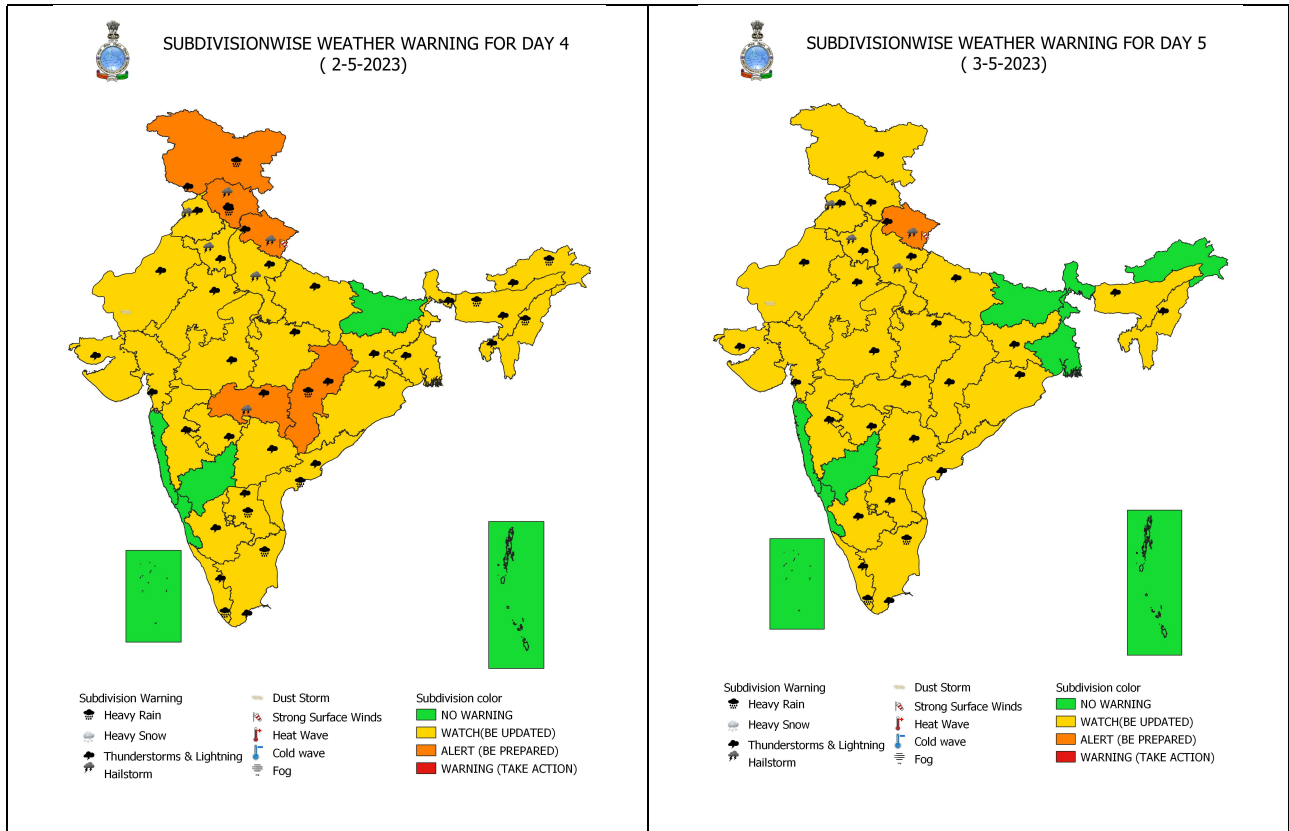
- Complete harvesting of matured rice, maize and bajra in Telangana; rice in Kerala, Odisha and Interior Karnataka; green gram and black gram in Tamilnadu; wheat in Himachal Pradesh and Uttarakhand during clear weather and keep the harvested produce in safer places.
- Continue harvesting of matured maize, fruits (grapes, pomegranate, mango etc.), onion and other vegetables in Madhya Maharashtra, Marathwada and Vidarbha during clear weather and keep the harvested produce in safer places.
- Drain out excess water from crop fields to avoid water stagnation in Arunachal Pradesh, Assam & Meghalaya, Sub Himalayan West Bengal, Odisha, Tamil Nadu, Kerala, South Interior Karnataka, Rayalaseema and Telangana.
- Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Jharkhand, Madhya Maharashtra, Marathwada, Vidarbha, Coastal Andhra Pradesh and Telangana.
- Provide mechanical support to horticultural crops and staking to vegetables.

Annexure I

Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Rainfall/thundershowers observed: at most places over** Lakshadweep; **at many places over** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Marathwada, North Interior Karnataka, Kerala & Mahe; **at a few places over** East Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; **at isolated places over** Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Konkan & Goa, Coastal Andhra Pradesh.
- ❖ **Significant rainfall recorded**(in cm): **Kerala & Mahe:** Vellanikkara & Kodungallur (both in Thrissur district) 9 each, Irinjalakuda (Thrissur district) 8, North Paravur AWS (Ernakulam district) 7, Neyyattinkara (Thiruvananthapuram district) & Kanjirappally (Kottayam district) 5 each; **Tamil Nadu:** Kodanad (dist Nilgiris) 8, Kuzhithurai (dist Kanyakumari) 6, Kodaikanal (dist Dindigul), Kovilankulam (dist Virudhunagar), Aruppukottai AWS (dist Virudhunagar) 5 each; **Rayalaseema:** Pamidi (dist Anantapuramu) 7, Jupadu Bungalow (dist Nandyal) 4, Kalyandrug (dist Anantapuramu) 4; **North Interior Karnataka:** Raichur Pto (dist Raichur) 7, Kembhavi (dist Yadgir) 5, Ilkal (dist Bagalkote) 5, **Telangana:** Himayatnagar (dist Hyderabad) 6, Golkonda(arg) (dist Hyderabad) 6, Atmakur Wnp (dist Wanaparthy) 6, Hyderabad A.p. (dist Hyderabad) 6, Koilkonda (dist Mahabubnagar) 6, **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri-8, East Sikkim-7; **Odisha:** Ganjam-8, Koraput-6; **Madhya Maharashtra:** Dhule (dist Dhule) 7, Parola (dist Jalgaon) 5; **Marathawada:** Nilanga (dist Latur) 6, Deoni (dist Latur) 5; **Assam:** Mushalpur_aws (dist Baksa) 4.
- ❖ **Heavy rainfall recorded: Heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Madhya Maharashtra, Rayalaseema, North Interior Karnataka, Tamil Nadu and Kerala.
- ❖ **Hailstorm observed: at a few places over** Vidarbha, Madhya Pradesh and **at isolated places over** Sub-Himalayan West Bengal & Sikkim, Odisha and Madhya Maharashtra.
















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)

Subdivision Warning		Subdivision color	
	Heavy Rain		NO WARNING
	Heavy Snow		WATCH(BE UPDATED)
	Thunderstorms & Lightning		ALERT (BE PREPARED)
	Hailstorm		WARNING (TAKE ACTION)
	Dust Storm		
	Strong Surface Winds		
	Heat Wave		
	Cold wave		
	Fog		

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