



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

**Press Release
Date: 30th April, 2023
Time of Issue: 1345 hours IST**

**Subject: (i) Light to moderate rainfall/thunderstorm with lightning, gusty winds & hailstorm over northwest India during 30th April-02nd May.
(ii) Light to moderate rainfall/thunderstorm with lightning, gusty winds & hailstorm over Central & East India during 30th April & 01st May.
(iii) Isolated heavy to very heavy rainfall over Tamil Nadu, Kerala, Andhra Pradesh and south interior Karnataka during 30th April-02nd May.**

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 in lower & upper tropospheric levels.
- ❖ An Induce Cyclonic Circulation lies over south Pakistan & adjoining West Rajasthan in lower tropospheric levels.
- ❖ A Cyclonic Circulations lies over southwest Uttar Pradesh and another over south Chhattisgarh in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from east Vidarbha to North Interior Tamil Nadu in lower tropospheric levels.
- ❖ **An 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/gusty winds very likely over Western Himalayan Region and scattered to fairly widespread rainfall with thunderstorm/lightning/ gusty winds over the plains of Northwest India during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Himachal Pradesh and Uttar Pradesh during 30th April-02nd May; Uttarakhand during next 5 days; over Punjab, Haryana, Chandigarh & Delhi, during 01st-02nd May; over Rajasthan on 30th April and 03rd May. **Thundersquall** very likely over Uttarakhand on 02nd & 03rd May.
- ❖ **Heavy rainfall** very likely at isolated places over Jammu division on 02nd May and Himachal Pradesh on 01st & 02nd May.
- ❖ **Duststorm** very likely at isolated places over West Rajasthan during 03rd-04th May.

Central India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 5 days.
- ❖ **Hailstorm** very likely at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh today.
- ❖ **Heavy rainfall** very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh today.

South India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 5 days.
- ❖ **Very Heavy rainfall** at isolated places over Kerala 30th April; over Rayalaseema & Tamil Nadu 01st May. **Heavy rainfall** likely at isolated places Rayalaseema and North Interior Karnataka on 30th April; over South Interior Karnataka and Coastal Andhra Pradesh during 30th April-2nd May; over Kerala & Tamil Nadu during next 4 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 and Bihar on 30th April; over Jharkhand and West Bengal & Sikkim on 30th April & 01st May.
- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim during 30th April-2nd May; Odisha on 30th April.

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** very likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 01st-02st May; Assam & Meghalaya during 01st-04th May.

West India:

- ❖ Light isolated rainfall with thunderstorm/lightning very likely over the region during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Madhya Maharashtra and Marathawada today.

Maximum Temperatures observed:

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

- ❖ 30th April: Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Jharkhand, Odisha, Uttar Pradesh, Rajasthan, Bihar, Madhya Maharashtra, Marathawada
- ❖ 01st May: West Bengal & Sikkim, Jharkhand, Uttar Pradesh, Punjab, Haryana, Himachal Pradesh, Uttarakhand
- ❖ 02nd May: Uttar Pradesh, Punjab, Haryana, Himachal Pradesh, Uttarakhand
- ❖ 03rd May: Uttarakhand, Rajasthan

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 kutch houses/walls and huts.
- ❖ Loose objects may fly.

Action suggested:

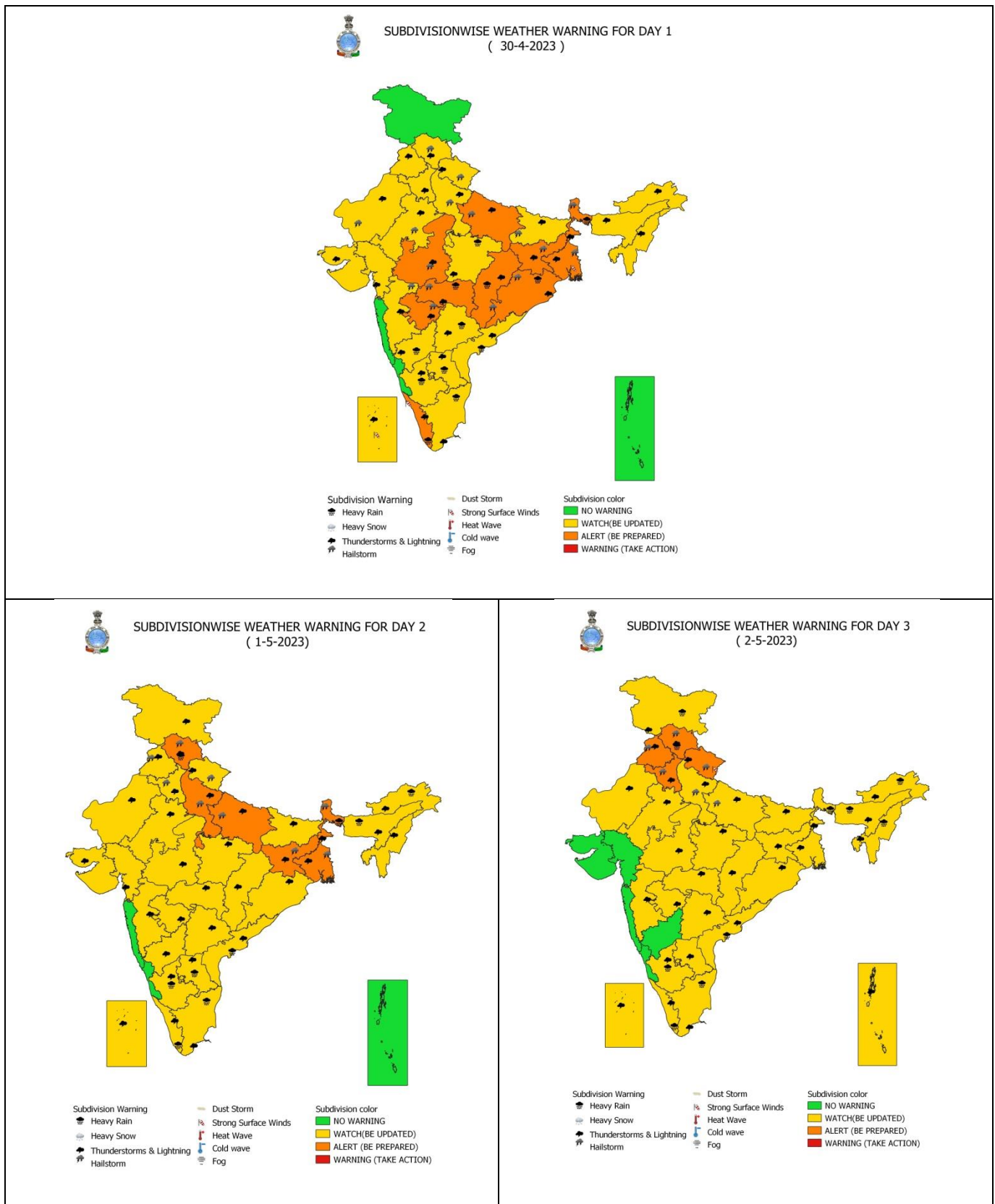
- ❖ Stay indoors, close windows & doors and avoid travel if possible.
- ❖ Take safe shelters; do not take shelter under trees.
- ❖ Do not lie on concrete floors and do not lean against concrete walls.
- ❖ Unplug electrical/ electronic appliances.
- ❖ Immediately get out of water bodies.
- ❖ Keep away from all the objects that conduct electricity.

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

- ❖ Keep the already harvested produce of crops in safe places.
- ❖ 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, Madhya Pradesh, Vidarbha, Chhattisgarh, Tamil Nadu, Kerala, Interior Karnataka, Andhra Pradesh and Telangana.
- ❖ Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, West Bengal, Sikkim, Odisha, Jharkhand and Bihar.
- ❖ Provide mechanical support to horticultural crops and staking to vegetables.

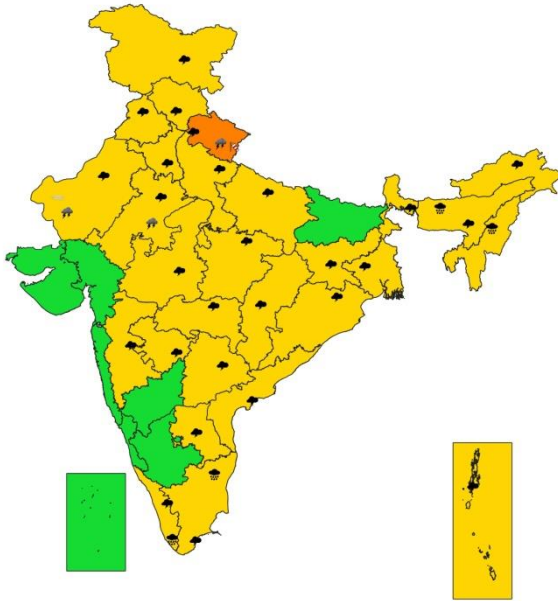
Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Rainfall/thundershowers observed: at most places** over Vidarbha, Kerala; **at many places** over Arunachal Pradesh, Assam & Meghalaya, West Bengal & Sikkim, West Rajasthan, Saurashtra & Kutch, Chhattisgarh, Interior Karnataka; **at a few places** over West Uttar Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and **at isolated places** over Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Bihar, Gujarat region and Konkan & Goa.
- ❖ **Significant rainfall recorded**(in cm): **Tamil Nadu:** Peraiyur (dist Madurai) 11, Radhapuram (dist Tirunelveli) 9, Periyanaickenpalayam (dist Coimbatore), Mettupalayam (dist Coimbatore), Pillar Dam, Mettupalayam (dist Coimbatore) 8 each, Kodanad (dist Nilgiris), Wallajah (dist Ranipet), Manamelkudi (dist Pudukkottai), Kovilpatti AWS (dist Toothukudi) 7 each, **Coastal Andhra Pradesh:** Vijayawada A.p. (dist Ntr District) 8, **Telangana:** Gudurwrgl (dist Mahabubabad) 7, Tekulapalle (dist B. Kothagudem) 5, Adilabad (dist Adilabad) 5, **Interior Karnataka:** Konanur (dist Hassan) 8, Kakkeri (dist Yadgir) 7, Alamatti Hms (dist Vijayapura) 5, Hosadurga (dist Chitradurga) 5, Gubbi (dist Tumakuru) 5, Srirangapatna (dist Mandya) 5, **Rayalaseema:** Tanakal (dist Sri Sathyasai District) 5, **Kerala:** Mavelikkara (Alappuzha district) 6, West Kallada AWS (Kollam district) 5, **West Rajasthan:** Jaisalmer (Jaisalmer) 6; **Assam & Meghalaya:** Jowai_aws (dist West Jaintia Hills) 5, Williamnagar (dist East Garo Hills) 5, Dhekiajuli (dist Shonitpur) 5, Kokrajhar_aws (dist Kokrajhar) 5.
- ❖ **Heavy rainfall occurred:** at isolated places over Coastal Andhra Pradesh, Telangana, Interior Karnataka and Tamil Nadu.
- ❖ **Thunderstorm observed:** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Rajasthan, Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Assam & Meghalaya, Gujarat State, Marathwada, Rayalaseema, Tamilnadu, Puducherry and Karaikal, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.
- ❖ **Hailstorm Observed:** at isolated places over Himachal Pradesh, Rajasthan, Odisha, Vidarbha, Madhya Maharashtra and Marathwada.





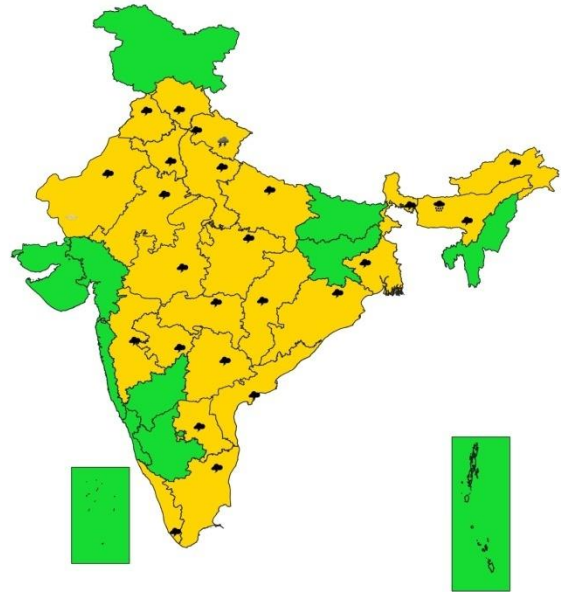
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(3-5-2023)



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



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(4-5-2023)



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














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

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