



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

**Press Release
Date: 03rd May, 2023
Time of Issue: 1315 hours IST**

**Subject: (i) Rainfall/Thunderstorm activity over northwest India is likely to reduce from today. However a fresh spell of rainfall likely to commence over northwest India from 05th May.
(ii) Reduction in rainfall activity over south peninsular India from 04th May.**

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

Significant Meteorological features:

- ❖ A **Western Disturbance** seen as a trough along Long.72°E to the north of 25°N in lower & middle tropospheric levels.
- ❖ A **cyclonic circulation** lies over Northeast Rajasthan & neighbourhood in lower tropospheric levels and a **trough** runs from this cyclonic circulation to west Bihar across Uttar Pradesh in lower tropospheric levels.
- ❖ A **trough/wind discontinuity** runs from southwest Madhya Pradesh to south Tamil Nadu in lower tropospheric levels.
- ❖ A cyclonic Circulation lies over north Tamil Nadu in lower tropospheric levels. Another **cyclonic circulation** lies over south Chhattisgarh in lower tropospheric levels.
- ❖ A **fresh Western Disturbance** likely to affect Northwest India from 05th May night.
- ❖ A **cyclonic circulation is likely to develop over Southeast Bay of Bengal around 6th May, 2023. Under its influence a low pressure area is likely to form over the same region around 7th May. It is likely to concentrate into a depression over Southeast Bay of Bengal on 8th May. Thereafter, it is likely to intensify into a cyclonic storm while moving nearly northwards towards central Bay of Bengal. The details of its path and intensification will be provided after the formation of low pressure area. The system is under constant watch and being monitored regularly.**

Forecast and warning for next 5 days:

Northwest India:

- ❖ Light to moderate fairly widespread to widespread rainfall/snowfall with **thunderstorm/lightning/gusty winds (wind speed 30-40 kmph)** very likely over Northwest India during next 24 hours. **A fresh spell of rainfall likely to commence over the region from 05th May with scattered to fairly widespread rainfall/snowfall over Western Himalayan region and isolated to scattered rainfall over plains of northwest India for subsequent 2-3**

days.

- ❖ **Hailstorm** activity very likely at isolated places over Haryana, Chandigarh & Delhi, Uttarakhand and Uttar Pradesh on 03rd May.

Central India:

- ❖ Light Isolated/Scattered rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days. **Hailstorm** very likely at isolated places over East Madhya Pradesh and Vidarbha on 03rd May.

South India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal on 03rd May, **heavy rainfall** at isolated places over Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe on 03rd May.
- ❖ **Hailstorm** very likely at isolated places over Telangana on 02nd May.

Northeast India:

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 3 days.
- ❖ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh during 03rd-05th May and over Assam & Meghalaya 04th May.

No significant weather likely over rest parts of the country.

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

- ❖ Yesterday, Maximum Temperatures were below 37°C over most parts of the country. These are below normal by 3-6°C over most parts of the country
- ❖ Maximum temperatures are very likely to increase and become near normal over the country during next 5 days except coastal Odisha and coastal West Bengal, where these likely to above normal by 2-4°C
- ❖ **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>

EXPECTED IMPACT & ACTION SUGGESTED due to very heavy rainfall on 03rd May over Tamil Nadu.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Impact expected and action suggested due to thunderstorm with lightning/gusty winds & Hailstorm: 03rd May: Haryana, Chandigarh & Delhi, Uttar Pradesh, Uttarakhand, Vidarbha and East Madhya Pradesh.

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:

- ❖ Postpone harvesting of green gram and black gram in Tamilnadu; wheat in Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- ❖ Complete harvesting of matured rice in Kerala and Interior Karnataka during clear weather.
- ❖ Continue harvesting of matured onion and fruits such as watermelon, muskmelon in Vidarbha during clear weather.
- ❖ Keep the harvested produce of crops in safe places.
- ❖ Drain out excess water from crop fields to avoid water stagnation in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Kerala, South Interior Karnataka and Andhra Pradesh.
- ❖ Use hail nets to protect orchards in Uttarakhand, East Madhya Pradesh and Vidarbha.
- ❖ Provide mechanical support to horticultural crops and staking to vegetables.

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

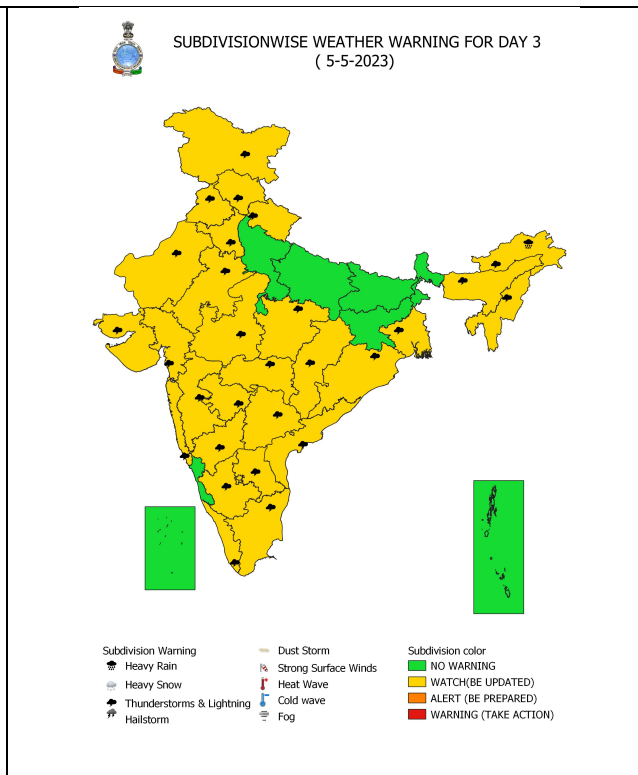
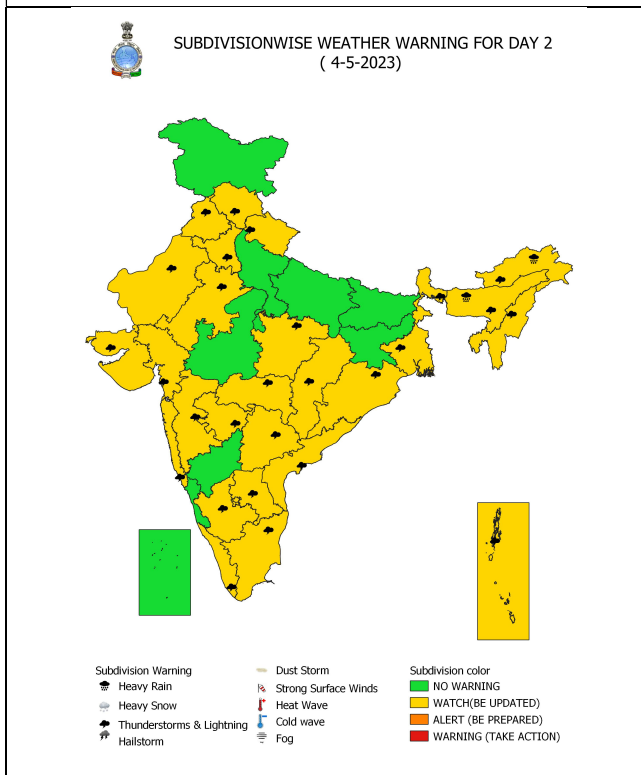
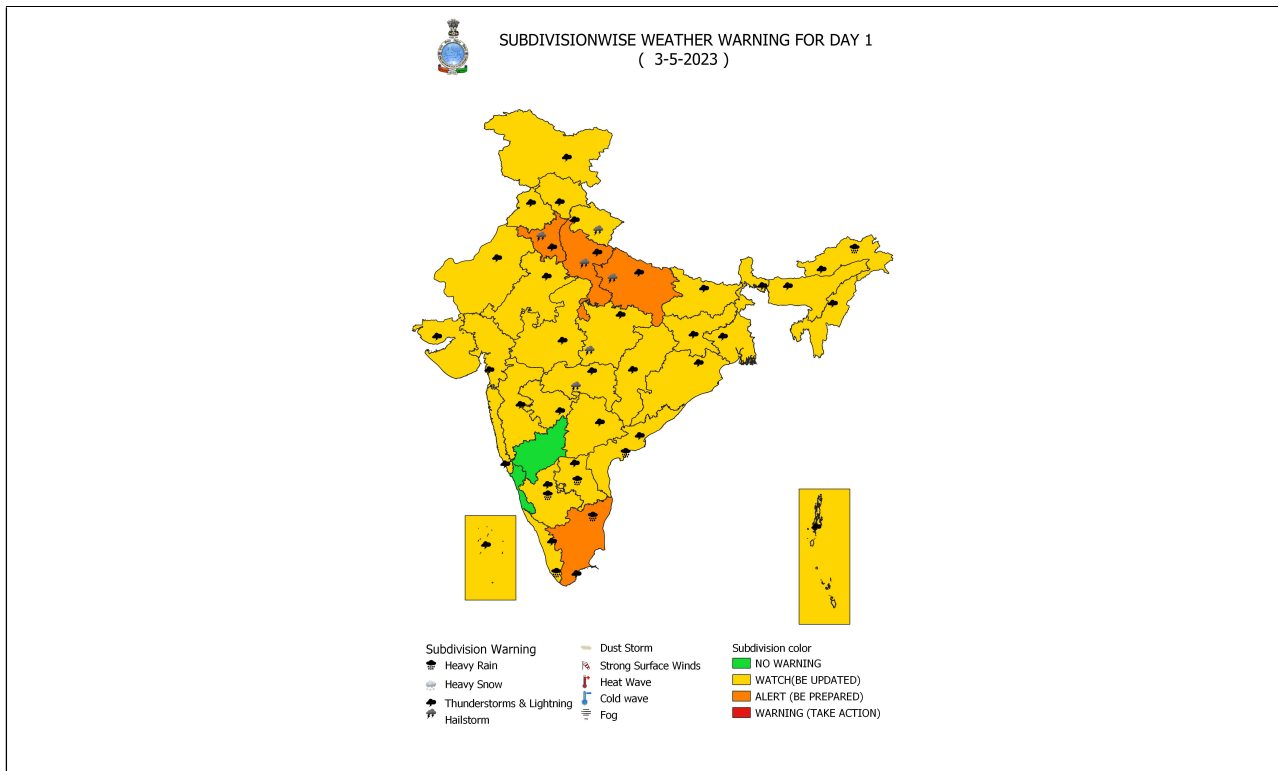
❖ **Rainfall/thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places over** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Vidarbha, Kerala; **at many places over** East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Arunachal Pradesh, Andaman & Nicobar Islands; **at a few places over** West Uttar Pradesh, Rajasthan, Haryana, Chandigarh & Delhi, West Madhya Pradesh, West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Rayalaseema, Lakshadweep; **at isolated places over** Odisha, East Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada, Madhya Maharashtra, Konkan & Goa, North Interior Karnataka, Telangana and Kerala & Mahe.

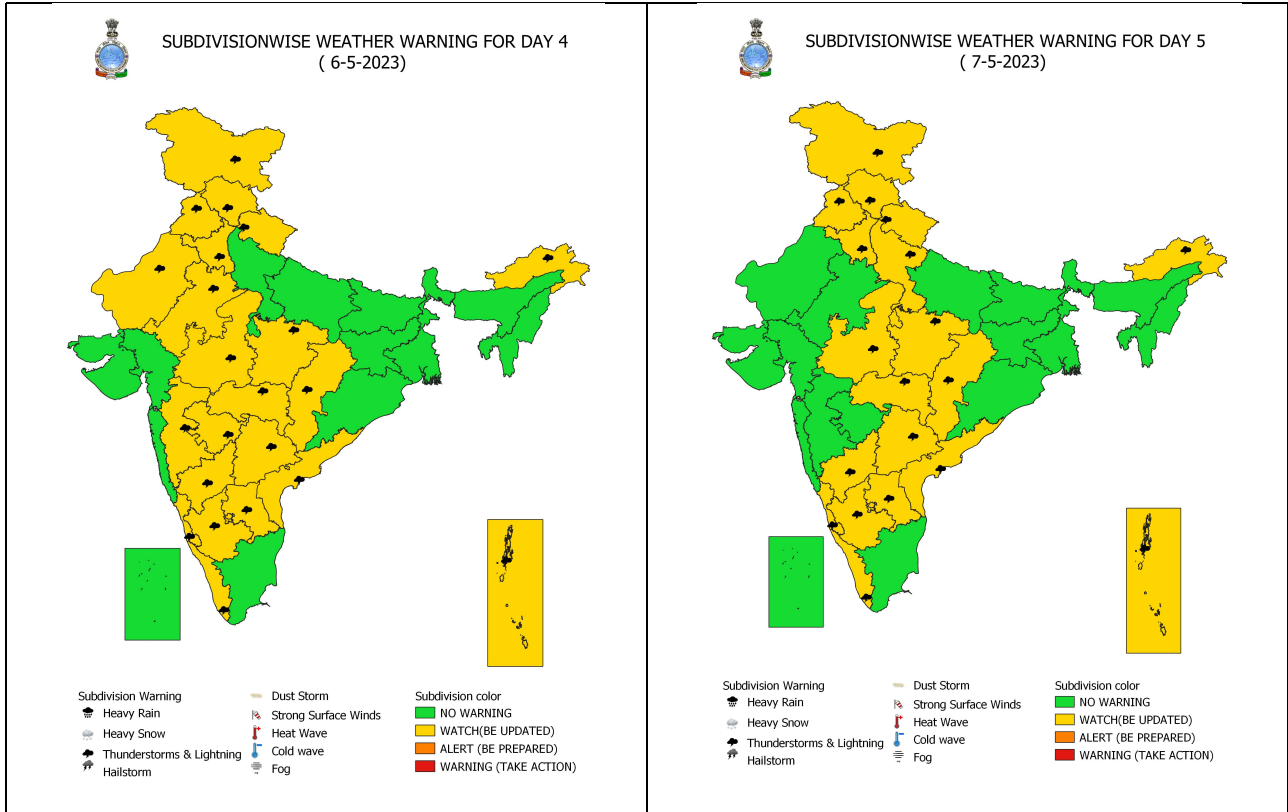
❖ **Heavy rainfall occurred** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rainfall** at isolated places over Kerala and **heavy rainfall** at isolated places over Himachal Pradesh, Vidarbha, Arunachal Pradesh, Tamil Nadu, South Interior Karnataka, Telangana and Coastal Andhra Pradesh.

❖ **Significant rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today)(in cm): **Kerala:** Ponnani (Malappuram district) 16, Angadipuram (Malappuram district) 10, Punalur (Kollam district) 8, Vaikom (Kottayam district) & Neryamangalam ARG (Ernakulam district) 7 each, **Tamil Nadu:** Cincona (dist Coimbatore) 11, Kadambur (dist Toothukudi), Kalugumalai (dist Toothukudi) 10, Elanthakuttai Medu (dist Erode), Maniyachi (dist Toothukudi), Moolaikaraipatti (dist Tirunelveli), Thalavadi (dist Erode) 9 each, **South Interior Karnataka:** Pavagada (dist Tumakuru) 9, **Coastal Andhra Pradesh:** Piduguralla (dist Palnadu) 8, Mangalagiri (dist Guntur) 5, **Telangana:** Mulakalapalle (dist B. Kothagudem) 7, **Arunachal Pradesh:** Tuting (dist Upper Siang) 7, **Himachal Pradesh:** Chamba-8, Kullu-6; **West Uttar Pradesh:** Bijnor-7, Mazaffarnagar-6; **Vidarbha:** Arjuni Morgaon (dist Gondia) 9, Chimur (dist Chandrapur) 9, Bhiwapur (dist Nagpur) 8, Ralegaon (dist Yeotmal) 8, Hinganghat (dist Wardha) 7, Warora (dist Chandrapur) 7, **East Madhya Pradesh:** Anuppur-aws (dist Anuppur) 6, **Chhattisgarh:** Mana-raipur-ap (dist Raipur) 6, **Rajasthan:** Nagar Sr (dist Bharatpur) 6, Sawaimadhapur Tesil Sr (dist Sawai Madhopur) 5, Merta City (dist Nagaur) 5, **Uttarakhand:** Haldwani-4;

❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Jharkhand, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Kerala & Mahe, Arunachal Pradesh, Vidarbha, Madhya Pradesh, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal.

❖ **Hailstorm Observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Rajasthan, Vidarbha and East Madhya Pradesh.





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	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)

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