



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 13th February, 2024

Time of Issue: 1230 hours IST

**Subject: (i) Thunderstorm activity accompanied with hailstorms at isolated places likely over east-central India on 13th and over East India on 14th February, 2024.
(ii) A fresh spell of rainfall/snowfall activity likely over Western Himalayan Region during 17th-19th February 2024.**

Realized weather during past 24 hours till 0830 hours IST of today:

- ❖ **Minimum temperatures:** Minimum temperatures are in the range of 7-12°C over most parts of northern plains. These are normal over many parts of northwest India and above normal over rest parts of north India. **Today, the lowest minimum temperature of 6.1°C reported at Amritsar (Punjab).**
- ❖ **Dense to very dense fog** observed in isolated pockets of Punjab, Haryana-Chandigarh-Delhi and **Dense fog** in isolated pockets of Odisha.
- ❖ **Hailstorms** recorded at isolated places over East Madhya Pradesh.
- ❖ **Light to moderate rainfall** occurred at some places over East Uttar Pradesh, West Madhya Pradesh and isolated places over Himachal Pradesh, West Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands and Arunachal Pradesh.

Weather Systems and Forecast & Warnings during next 5 days: (graphics in Annexure I)

- ❖ Under the influence of the anticyclone over the north Bay of Bengal, moisture is penetrating into east central and east India from the Bay of Bengal in the lower tropospheric levels. This is likely to cause;
 - ✓ Isolated/scattered light to moderate rainfall accompanied with **thunderstorms, lightning activity and hailstorms** in isolated places very likely over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar and Jharkhand on 13th; and **thunderstorms and lightning** in isolated places over Bihar, Jharkhand and West Bengal & Sikkim on 14th February, 2024.
 - ✓ Light to moderate isolated rainfall also very likely over Odisha during 13th-16th February, 2024.
- ❖ A Western Disturbance as a trough in mid-tropospheric runs roughly along long. 66°E to the north of Lat. 30°N and an induced cyclonic circulation lies over south Haryana & neighbourhood in lower tropospheric levels. Under its influence: light isolated rainfall/snowfall very likely over Himachal Pradesh and Uttarakhand on 13th and isolated light rainfall over Haryana, East Rajasthan on 13th February, 2024.
- ❖ A fresh Western Disturbance is likely to cause scattered to fairly widespread rainfall/snowfall over Western Himalayan Region during 17th-19th and isolated rainfall over adjoining plains on 18th & 19th February, 2024.
- ❖ **Dense fog** conditions very likely to prevail in morning hours in isolated pockets of Odisha on 14th & 15th February, 2024.

Minimum Temperature Forecast:

- ❖ No significant change in minimum temperatures likely over most parts of the country during next 5 days.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

Impact expected and action suggested due to thunderstorm with lightning & Hailstorm:

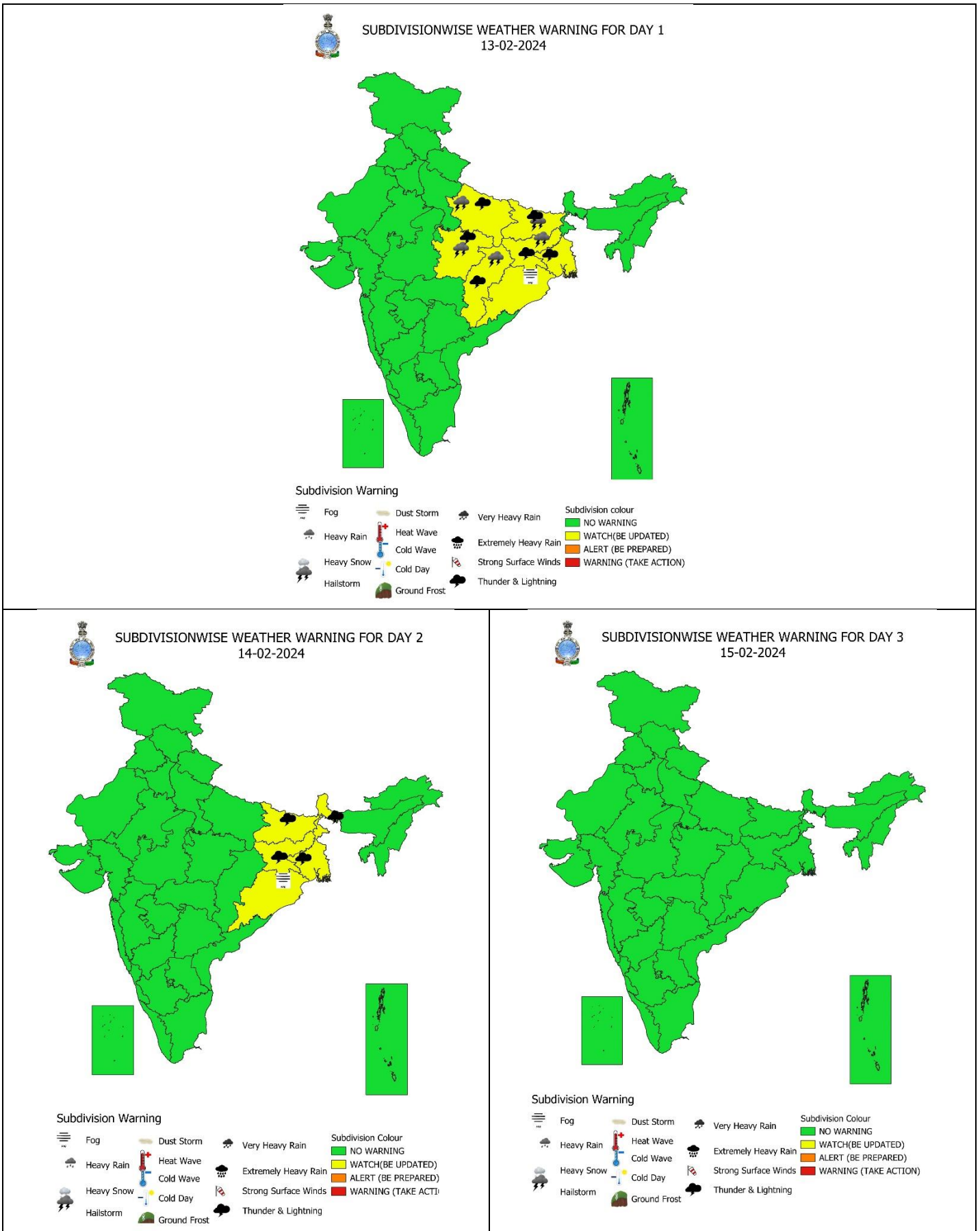
- ❖ **13th February:** East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar and Jharkhand.

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.

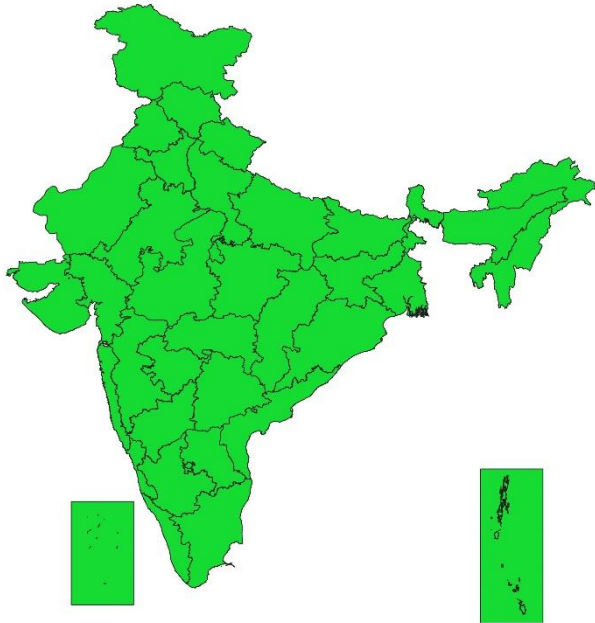
Action suggested:

- ❖ 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.





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
16-02-2024

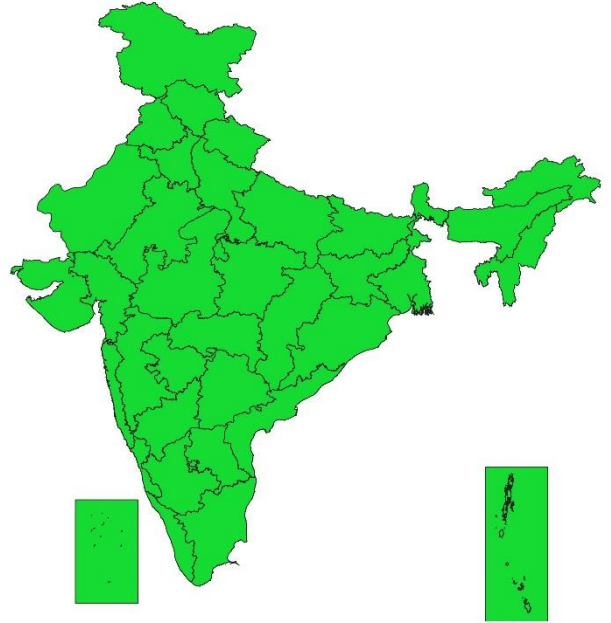


Subdivision Warning

- | | | | |
|--------------|------------|----------------------|---------------------------|
| Fog | Dust Storm | Very Heavy Rain | Subdivision Colour |
| Heavy Rain | Heat Wave | Extremely Heavy Rain | NO WARNING |
| Heavy Snow | Cold Wave | Strong Surface Winds | WATCH(BE UPDATED) |
| Hailstorm | Cold Day | Thunder & Lightning | ALERT (BE PREPARED) |
| Ground Frost | | | WARNING (TAKE ACTION) |



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
17-02-2024



Subdivision Warning

- | | | | |
|--------------|------------|----------------------|---------------------------|
| Fog | Dust Storm | Very Heavy Rain | Subdivision Colour |
| Heavy Rain | Heat Wave | Extremely Heavy Rain | NO WARNING |
| Heavy Snow | Cold Wave | Strong Surface Winds | WATCH(BE UPDATED) |
| Hailstorm | Cold Day | Thunder & Lightning | ALERT (BE PREPARED) |
| Ground Frost | | | 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.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **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-Himalayan 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, Tamil Nadu, 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

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)