



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



**Press Release**

**Date: 08<sup>th</sup> February, 2024**

**Time of Issue: 1130 hours IST**

**Subject: Light rainfall activity likely over Central parts of the country during 10<sup>th</sup> to 14<sup>th</sup> February, 2024.**

**Realized weather during past 24 hours till 0830 hours IST of today: (Details given in Annexure I)**

- ❖ **Minimum temperatures:** Minimum temperatures are in the range of 4-8°C over most parts of Punjab, Haryana-Chandigarh, plains of Uttarakhand, north Rajasthan; in the range of 8-12°C over many parts of Delhi, rest of Rajasthan, Uttar Pradesh and Madhya Pradesh which are normal to below normal over the region. **Today, the lowest minimum temperature of 3.5°C reported at Sikar (East Rajasthan).**
- ❖ **Cold wave** observed in isolated pockets of Punjab and Himachal Pradesh.
- ❖ **Cold day** observed in isolated pockets of south Haryana and Himachal Pradesh.
- ❖ **Ground frost conditions** observed in isolated pockets over Uttarakhand.
- ❖ **Fog conditions observed** (at 0530 & 0830 hours IST of today): **Dense fog** in isolated pockets of Odisha.

**Weather Systems and Forecast & Warnings during next 5 days:**

- ❖ Light to moderate isolated to scattered rainfall/snowfall very likely over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim on 08<sup>th</sup> & 09<sup>th</sup>; isolated rainfall activity over Assam & Meghalaya on 08<sup>th</sup> and Odisha on 08<sup>th</sup>, 11<sup>th</sup> & 12<sup>th</sup> February, 2024.
- ❖ Under the influence of a trough/cyclonic circulation over central parts of country; isolated to scattered light rainfall activity is likely over Madhya Pradesh, Vidarbha, Chhattisgarh during 10<sup>th</sup>-14<sup>th</sup>, Madhya Maharashtra on 10<sup>th</sup> & 11<sup>th</sup>; Marathwada during 09<sup>th</sup>-11<sup>th</sup>; over Uttar Pradesh, Bihar, Jharkhand 12<sup>th</sup>-14<sup>th</sup> and Gangetic West Bengal on 13<sup>th</sup> & 14<sup>th</sup> 2024.
- ❖ Thunderstorm accompanied with lightning very likely over Madhya Pradesh, Vidarbha, Marathwada and Chhattisgarh on 11<sup>th</sup> February, 2024.
- ❖ Light isolated rainfall very likely over Coastal Andhra Pradesh on 08<sup>th</sup> & 09<sup>th</sup>; Tamilnadu on 09<sup>th</sup> & 10th; Telangana on 10<sup>th</sup> & 11<sup>th</sup> and Kerala on 14<sup>th</sup> February.
- ❖ **Strong surface winds of the order 25-35 kmph** likely over plains of Northwest India during next 24 hours.

**Minimum Temperature Forecast and Cold Wave warning: (graphics in Annexure II)**

- ❖ No significant change in minimum temperatures very likely over many parts of East India during next 3 days and rise by 2-3°C thereafter. No significant change in minimum temperatures over rest parts of the north India during next 5 days.
- ❖ **Cold wave** conditions very likely in isolated pockets over Himachal Pradesh and Punjab on 08<sup>th</sup> February, 2024.
- ❖ **Ground frost conditions** very likely in isolated pockets of Uttarakhand on 08<sup>th</sup> February.

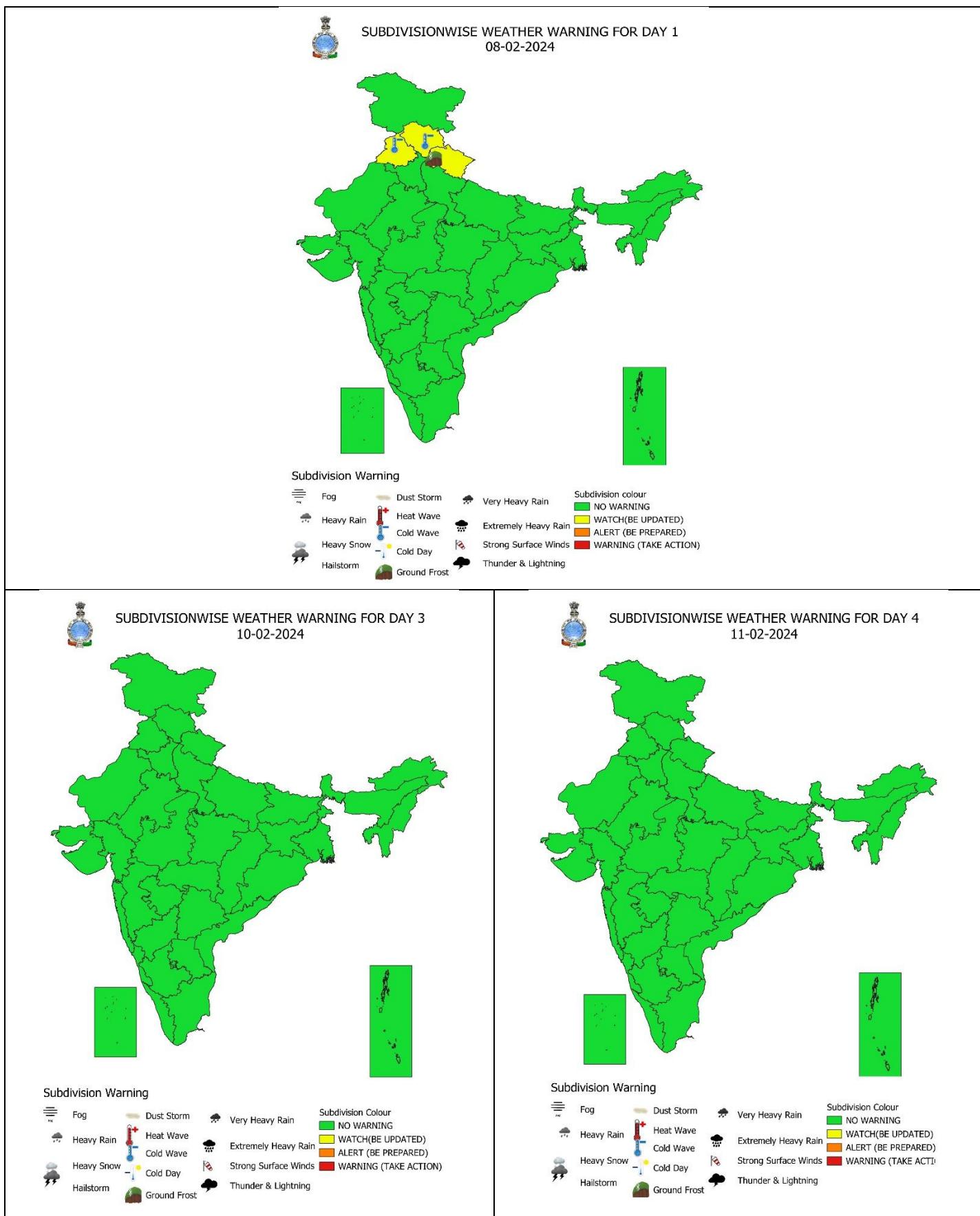
For more details kindly refer: <https://mausam.imd.gov.in/responsive/all india forcast bulletin.php>

## **Annexure I**

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

- ❖ **Visibility recorded (at 0530 hours IST of today) ( $\leq 200$  metres):** Coastal Andhra Pradesh: Kodaveedu-25, Vijayawada-200.
- ❖ **Visibility recorded (at 0830 hours IST of today) ( $\leq 200$  metres):** East Rajasthan: Alwar- 200; Sub-Himalayan West Bengal & Sikkim: Cooch Behar- 50, Jalpaiguri & Gangtok- 500 each; Assam: Haflong- 500.

## Annexure II





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
11-02-2024

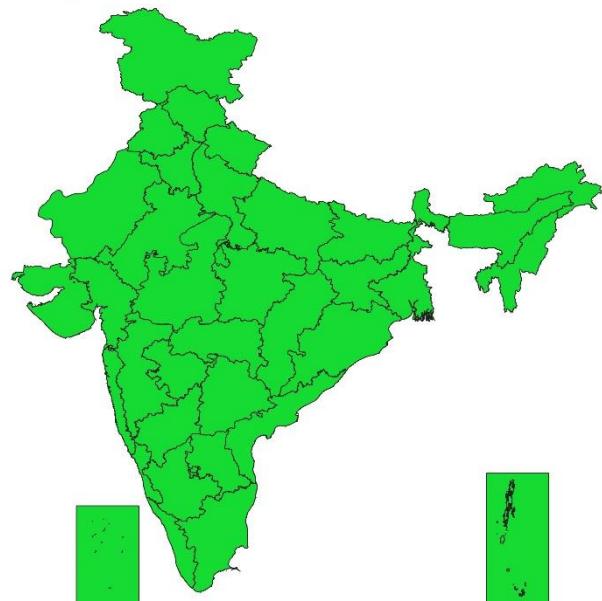


Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		WATCH(BE UPDATED)
	Cold Wave		Cold Day		Strong Surface Winds		ALERT (BE PREPARED)
	Heavy Snow		Ground Frost		Thunder & Lightning		WARNING (TAKE ACTION)
	Hailstorm						



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
12-02-2024



Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		WATCH(BE UPDATED)
	Cold Wave		Cold Day		Strong Surface Winds		ALERT (BE PREPARED)
	Heavy Snow		Ground Frost		Thunder & Lightning		WARNING (TAKE ACTION)
	Hailstorm						

## 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)			Scattered (SCT/ A Few Places)	
51-75	Fairly Widespred (FWS/ Many Places)			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		Flash Flood Risk
Terms	Probability of Occurrence (%)	
Unlikely	< 25	High Risk (Take Action)
Likely	25 - 50	Moderate Risk (Be Prepared)
Very Likely	50 - 75	
Most Likely	> 75	Low Risk (Be Updated)

### Definition of Cold wave, Cold Day and Fog Conditions:

 <b>Cold Wave</b>	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.
	(a) Based on departure Cold Wave: Minimum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ . Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$
	(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$ Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$
 <b>Cold Day</b>	(c) For Coastal Stations When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$
	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions Based on departure
	Cold Day: Maximum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ . Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$
 <b>Fog</b>	Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$ Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50-200 metres Very Dense Fog: when the visibility $< 50$ metres