



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 08th February, 2024

Time of Issue: 1130 hours IST

Subject: Light rainfall activity likely over Central parts of the country during 10th to 14th 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 08th & 09th; isolated rainfall activity over Assam & Meghalaya on 08th and Odisha on 08th, 11th & 12th 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 10th-14th, Madhya Maharashtra on 10th & 11th; Marathwada during 09th-11th; over Uttar Pradesh, Bihar, Jharkhand 12th-14th and Gangetic West Bengal on 13th & 14th 2024.
- ❖ Thunderstorm accompanied with lightning very likely over Madhya Pradesh, Vidarbha, Marathwada and Chhattisgarh on 11th February, 2024.
- ❖ Light isolated rainfall very likely over Coastal Andhra Pradesh on 08th & 09th; Tamilnadu on 09th & 10th; Telangana on 10th & 11th and Kerala on 14th 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)

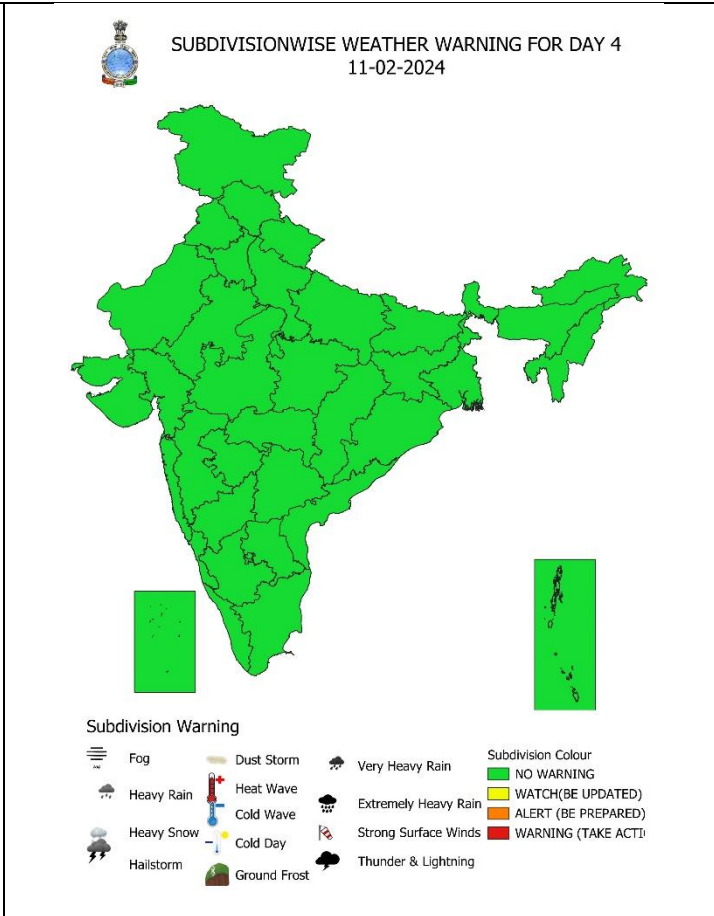
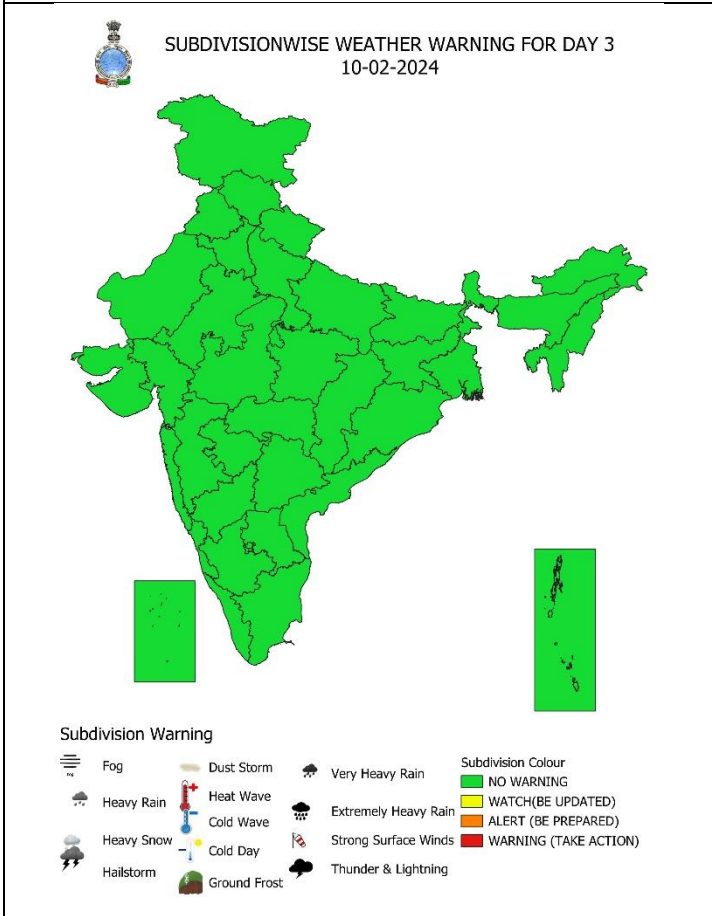
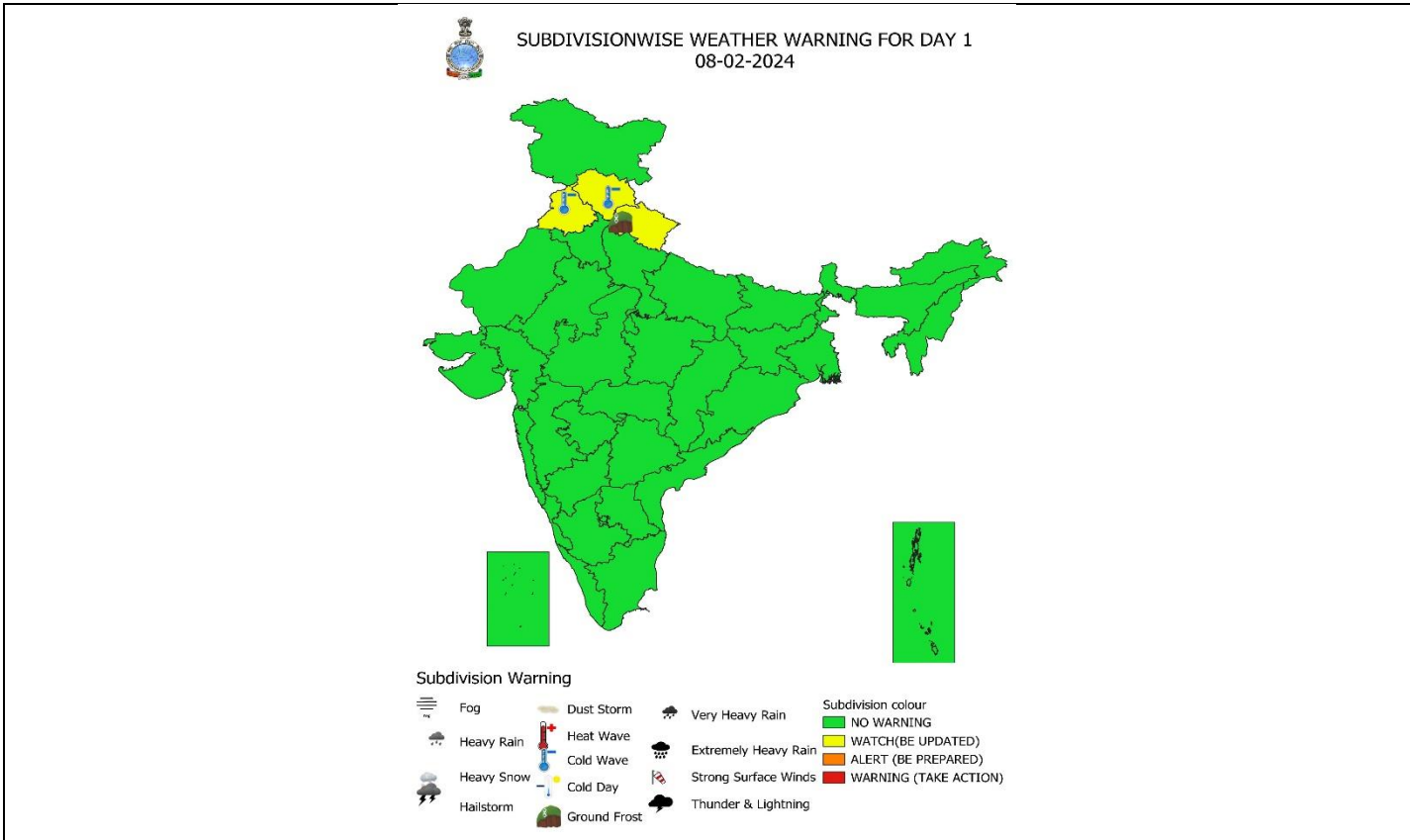
- ❖ No significant change in minimum temperatures very likely over many parts of East India during next 3 days and rise by 2-3°C thereafter. No significant change in minimum temperatures over rest parts of the north India during next 5 days.
- ❖ **Cold wave** conditions very likely in isolated pockets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

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

Annexure I

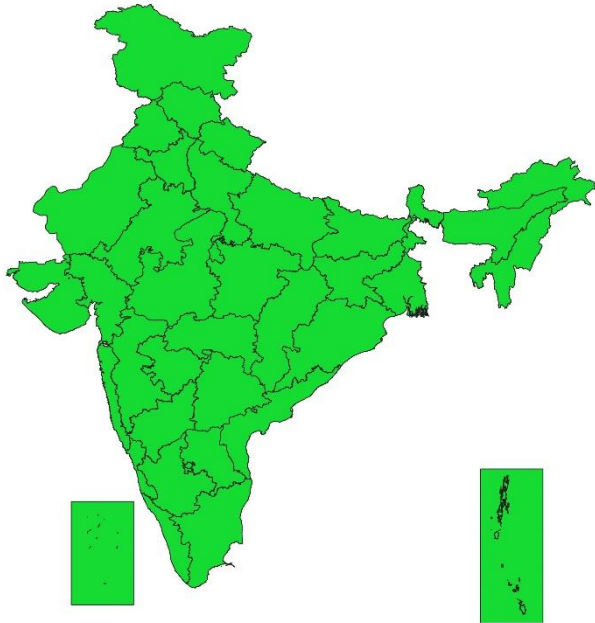
Realized weather during past 24 hours till 0830 hours IST of today:

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





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
11-02-2024

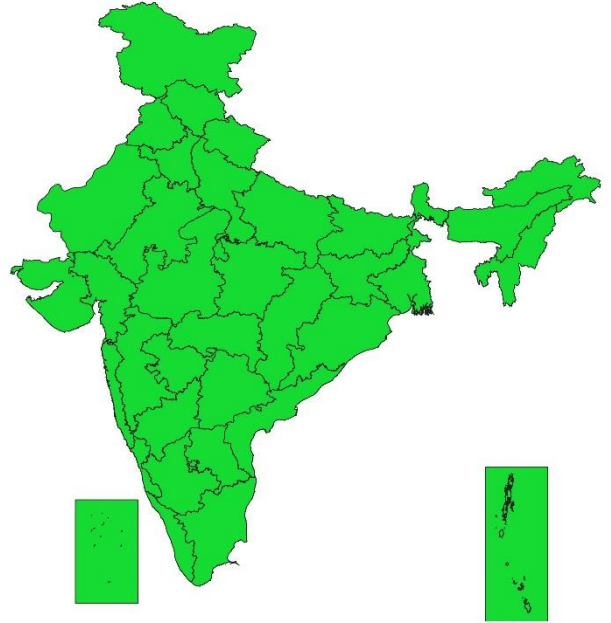


Subdivision Warning

- | | | | |
|--------------|------------|----------------------|---------------------------|
| Fog | Dust Storm | Very Heavy Rain | Subdivision Colour |
| Heavy Rain | Heat Wave | Extremely Heavy Rain | 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
12-02-2024



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)

Definition of Cold wave, Cold Day and Fog Conditions:

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°C to -6.4°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 $\leq 2.0^{\circ}\text{C}$

(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°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

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