



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

**Press Release  
Date: 02<sup>nd</sup> January, 2023  
Time of Issue: 1300 hours IST**

**Subject: i) Dense to very dense fog and cold day conditions very likely to continue over plains of northwest India during next 5 days.  
ii) Cold wave conditions very likely to continue over Himachal Pradesh, Punjab, Haryana, Chandigarh and north Rajasthan during next 4-5 days.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today:**

- ❖ **Minimum temperatures** are in the range of 3-7°C over many parts of Punjab, Haryana, Delhi, Rajasthan and West Uttar Pradesh.
- ❖ **Dense to very dense fog** observed in many pockets over Punjab, Haryana, Chandigarh and Bihar and **Dense Fog** in isolated pockets over Himachal Pradesh, Uttarakhand, northeast Rajasthan, West Madhya Pradesh, Chhattisgarh and Sub Himalayan West Bengal today morning.
- ❖ Yesterday, **Cold day conditions** observed in isolated pockets over northern parts of Uttar Pradesh.
- ❖ Today, **Cold wave to severe cold wave conditions** observed in isolated places over northern parts of Rajasthan and **cold wave conditions** in isolated places over Punjab and Himachal Pradesh.

**Minimum Temperature Forecast, Cold Wave/Cold Day & Fog Warnings (Annexure I & II):**

**Fog and Cold Day Warning**

- ❖ **Due to light winds and high moisture near surface over Indo-Gangetic plains, dense to very dense fog** very likely in some/many pockets in night/morning hours over Punjab, Haryana, Uttar Pradesh and Bihar during next 5 days; and in isolated pockets over Uttarakhand during next 48 hours. **Dense fog** in isolated pockets also very likely over Himachal Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Sub Himalayan West Bengal, Assam and Tripura during next 2-3 days and Odisha during next 24 hours.
- ❖ **Cold Day conditions** in isolated/some pockets very likely over Punjab, Haryana and Uttar Pradesh during next 5 days.

**Minimum Temperature Forecast & Cold Wave Warning**

- ❖ No significant change in minimum temperatures very likely over Northwest India during next 2 days and fall by 2-3°C thereafter. As a result;
  - **Cold wave to severe cold wave conditions** in isolated pockets very likely over northern Parts of Rajasthan during 03<sup>rd</sup>-06<sup>th</sup> & Punjab on 03<sup>rd</sup> & 04<sup>th</sup> and **Cold wave conditions** thereafter.
  - **Cold wave conditions** in isolated pockets over Himachal Pradesh during 03<sup>rd</sup>-06<sup>th</sup>; Haryana, Chandigarh & Delhi during 03<sup>rd</sup>-07<sup>th</sup> January, 2023.
- ❖ No significant change in minimum temperatures very likely over East India during next 3 days and fall by 2-4°C thereafter. No significant change in minimum temperatures very likely over remaining parts of the country during next 5 days.

For more details kindly refer:

[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

**Impact expected and action suggested due to dense to very dense fog in the night/morning hours** in some/many pockets in night/morning hours over Punjab, Haryana, Uttar Pradesh and Bihar during next 5 days.

**Impact expected:**

➤ **Transport and Aviation:**

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Some road traffic collisions

➤ **Power Sector:**

- Chances of Tripping of Power lines in the very dense fog routes

➤ **Human Health:**

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Causes Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

**Action suggested:**

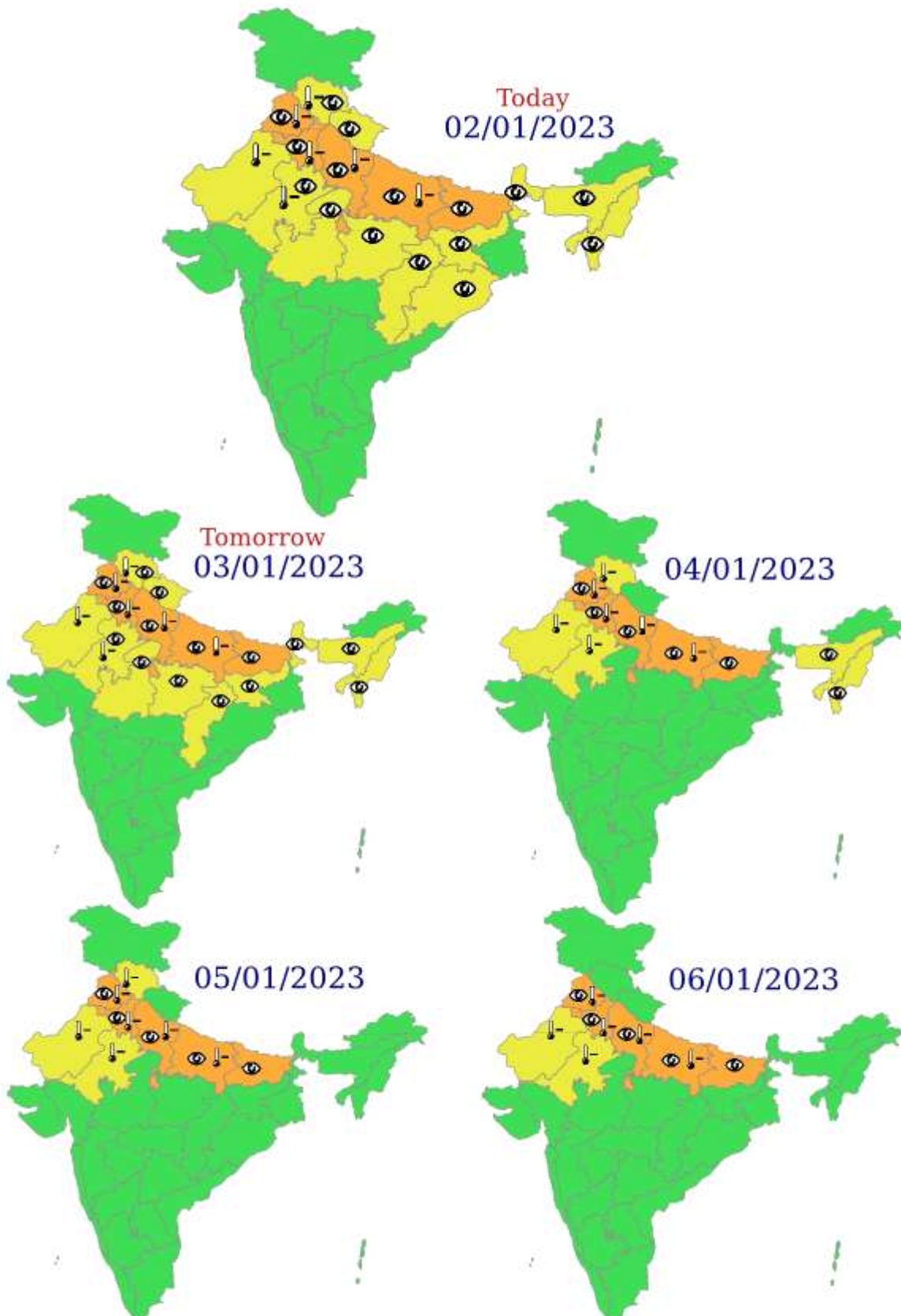
➤ **Transport and Aviation:**

- Careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines and Railway and State transport for schedule of your journey.

➤ **Power Sector:**

- To keep ready Maintenance Team

- **Human Health:** To avoid outing until unless emergency and to cover the face.



**Legends:**

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

**Region wise classification of meteorological Sub-Divisions:**

- 1) **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.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

<b>SPATIAL DISTRIBUTION</b> (% 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)

**WARNING**

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

**Probabilistic Forecast**

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

 Heavy Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State