



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 03rd January, 2023
Time of Issue: 1230 hours IST

**Subject: i) Dense to very dense fog and cold day conditions very likely to continue over northwest India during next 4-5 days.
ii) Cold wave conditions very likely to continue over northwest India during next 3 days and decrease in intensity thereafter.**

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

- ❖ **Minimum temperatures** are in the range of 2-6°C over many parts northwest India and Madhya Pradesh.
- ❖ **Very dense fog** in many pockets over Punjab; in isolated pockets over Uttarakhand, Haryana, Chandigarh, Delhi, Uttar Pradesh and Rajasthan; **Dense fog** in a few pockets over Chhattisgarh; in isolated pockets over Madhya Pradesh, Bihar, Gangetic West Bengal and Assam & Meghalaya today morning.
- ❖ **Yesterday, Cold Day to severe cold Day conditions** observed in some pockets over East Uttar Pradesh and Bihar and in isolated pockets over Punjab and southwest Haryana and **Cold Day conditions** observed in isolated pockets over West Uttar Pradesh and northeast Madhya Pradesh.
- ❖ **Today, Cold Wave conditions** observed in isolated pockets over north Rajasthan.

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 to continue in some/many pockets during night/morning hours over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh next 4-5 days; in isolated pockets over Rajasthan during next 48 hours.
- ❖ **Dense fog** in isolated pockets very likely over Bihar during next 5 days; over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Madhya Pradesh during next 3 days; West Bengal & Sikkim, Assam & Meghalaya and Nagaland Manipur, Mizoram and Tripura during next 2 days; Odisha and Chhattisgarh next 24 hours
- ❖ **Cold Day to severe cold day conditions** in many pockets very likely over Uttar Pradesh during next 5 days; in isolated/some pockets over Punjab, Haryana during next 3 days during next 5 days; **Cold Day conditions** in isolated pockets over north Rajasthan and Madhya Pradesh during next 2-3 days.
- ❖ **Ground frost conditions** in isolated pockets over north Rajasthan during next 2 days.

Minimum Temperature Forecast & Cold Wave Warning

- ❖ No significant change in minimum temperatures very likely over Northwest India during next 3 days and rise by 2-3°C thereafter. As a result;
 - **Cold wave to severe cold wave conditions** in some pockets very likely over northern Parts of Rajasthan, Haryana, Chandigarh & Delhi, Punjab during 04th-06th and **Cold wave conditions** in isolated pockets over Uttar Pradesh and Himachal Pradesh during next 2-3 days
- ❖ No significant change in minimum temperatures very likely over East India during next 2 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_forcast_bulletin.php

Annexure I

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 and Uttar Pradesh 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:

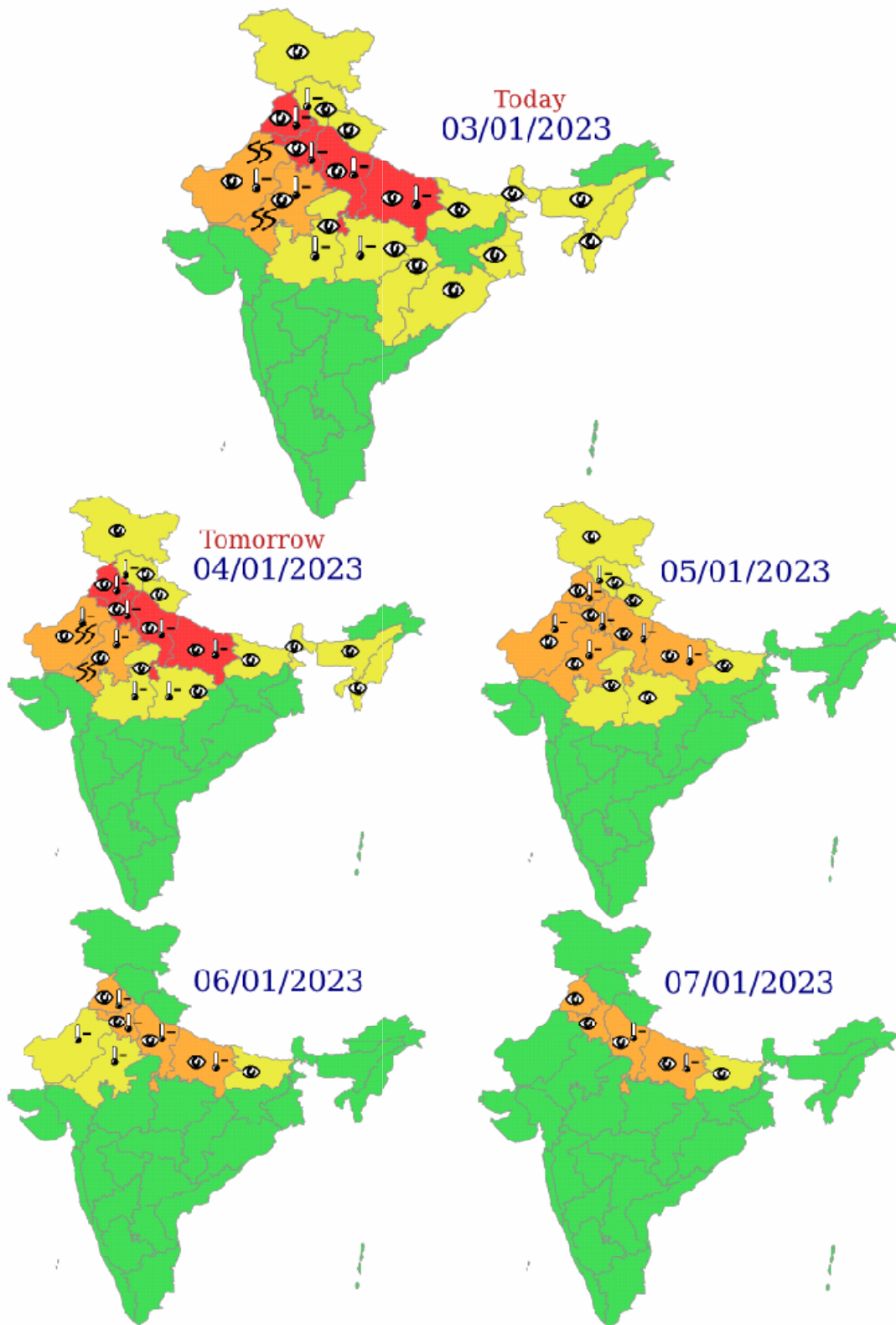
➤ **Transport and Aviation:**

- 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.

| 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) |

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 |