



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

**Press Release**

**Date: 05<sup>th</sup> February, 2022**

**Time of Issue: 1300 hrs IST**

**Subject: (I) Dense to Very Dense Fog Conditions in isolated pockets over plains of northwest India and east India during next 3-4 days.**  
**(II) Cold day to severe Cold day conditions in isolated pockets over plains of northwest India during next 2 days.**  
**(III) Wet Spell over Sub-Himalayan West Bengal & Sikkim and Northeast India likely to continue during next 24 hours and significant reduction thereafter.**

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

- **Rainfall realised during past 24 hours ending at 0830 hrs IST of today (cm):(Refer Annexure I)**
- **Minimum temperatures** are below normal over most parts of northwest, central & east India.
- **Cold Day to severe cold Day** conditions prevailed in isolated pockets over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh and **Cold day** conditions in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- **Dense to Very Dense Fog** in isolated pockets over Haryana-Chandigarh and West Rajasthan and **Dense fog** in isolated pockets over Punjab, Uttarakhand, Delhi, East Uttar Pradesh and Meghalaya.
- **Hailstorms** observed at isolated places over Bihar, Odisha and sub-Himalayan west Bengal & Sikkim.

**Weather Systems and associated forecast & warnings:**

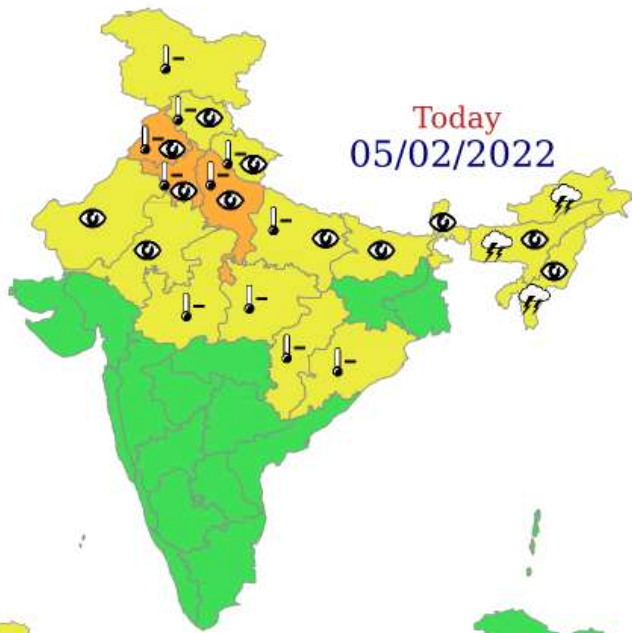
- The Western Disturbance as a the trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 85°E to the north of Lat. 20°N. Under its influence; fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning very likely over sub-Himalayan west Bengal & Sikkim and northeast India during next 24 hours.
- Under the influence of a feeble Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Western Himalayan Region on 06<sup>th</sup> & 07<sup>th</sup> February, 2022.
- Under the influence of another Western Disturbance; scattered/fairly widespread light/moderate rainfall/snowfall very likely over Western Himalayan Region during 08<sup>th</sup> - 09<sup>th</sup> February and isolated light rainfall likely over northern parts of Punjab & Haryana-Chandigarh on 08<sup>th</sup> & 09<sup>th</sup> February, 2022.

### **Cold Wave, Fog and Cold Day Warning:**

- Gradual rise in minimum temperatures by 3-5°C very likely over most parts of Northwest India during next 4 days and fall thereafter.
- No significant change in minimum temperatures over most parts of Central India during next 24 hours and gradual rise by 3-5°C during subsequent 4 days.
- Fall in minimum temperatures by 2-3°C very likely over most parts of East India during next 24 hours and no significant change during subsequent 2 days and gradual rise by 2-4°C thereafter.
- No significant change in minimum temperatures over Maharashtra during next 24 hours and gradual rise by 3-4°C over during subsequent 3-4 days.
- **Cold Day to Severe Cold Day Conditions** very likely in isolated/some parts over Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim during next 24 hours and over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh and Uttar Pradesh during next 2 days.
- **Cold wave Conditions** very likely in isolated pockets over East Madhya Pradesh and Chhattisgarh during next 24 hours and over Odisha during next 2 days.
- **Dense to Very Dense Fog Conditions** likely in isolated/some parts in night/morning hours over Himachal Pradesh, north Rajasthan, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 2 days; over Sub-Himalayan West Bengal during next 3 days; over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Odisha during next 4 days and over East Uttar Pradesh during next 5 days.

**For more details refer:**

[https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php)



**Rainfall realised (cm) during past 24 hours ending at 0830 hrs IST of today:**

**Gangetic West Bengal:** Canning-6, Digha, Diamond Harbour, Haldia & Burdwan-4 each, Bagati, Kolkata(Dumdum) & Midnapore- 3 each, Krishnanagar & Uluberia-2 each;

**Odisha:** Chandbali-5, Balasore-4, Paradip-2;

**Assam & Meghalaya:** Haflong-5, Dhubri & Goalpara-4 each, Tangla, Majbat, Guwahati, Shillong- 2 each;

**Sub-Himalayan West Bengal & Sikkim:** Cooch Behar-4, Gangtok, Baghdogra & Jalpaiguri-3 each;

**Himachal Pradesh:** Shimla Airport & Solan-3 each, Nahan-2;

**Uttarakhand:** Dehradun-2;

**East Uttar Pradesh:** Gorakhpur-3,

**Bihar:** Forbesganj-3, Bhagalpur & Purnea-2 each;

**Arunachal Pradesh:** Pasighat-2.

**Impact expected and action suggested due to Dense/Very Dense fog in the night/morning hours isolated/some parts very likely over Himachal Pradesh, north Rajasthan, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 2 days; over Sub-Himalayan West Bengal during next 3 days; over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Odisha during next 4 days and over East 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.

**Impact expected and action suggested due to Cold Day/Severe Cold Day conditions** in very likely in isolated/some parts over Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim during next 24 hours and over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh and Uttar Pradesh during next 2 days.

**Impact expected:**

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.

- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

**Action suggested:**

- Wear several layers of loose fitting, light weight; warm woolen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woolen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/Hypothermia.
- Protect livestock from cold weather. (For details kindly refer NDMA guidelines: [https://ndma.gov.in/Resources/awareness/Cold\\_Wave](https://ndma.gov.in/Resources/awareness/Cold_Wave))

**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:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, 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)



**Heavy Rain**



**Strong Winds**

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### Probabilistic Forecast

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



**Thunderstorm with Lightning**



**Visibility/Fog**



**Cold wave/Cold day**



**Frost**