



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

**Press Release**

**Date: 15<sup>th</sup> January, 2022**

**Time of Issue: 1330 hrs IST**

**Subject:**

- I. Dense to Very Dense Fog over parts of Northwest India during next 3-4 days.**
- II. Two Western Disturbance (WD) in quick succession would affect Western Himalayan Region during 16<sup>th</sup> to 19<sup>th</sup> January, 2022.**

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

- **Rainfall (in cm):** **Telangana:** J. Bhupalpally: Bhupalpalle-4, Kaleswaram-3, Karimnagar: Choppadandi-5, Mulugu: Tadwai MLG-4; Peddapalle: Dharmaram, Elagaid & Srirampur-4 each, **Chhattisgarh:** Kabirdham: Bodla and Pandharia-5; Bemetasa: Thankhamariya-2; Bijapur: Usoor-2; Bilaspur: Takhatpur-4; Korba: Poudi Uparora-4, Pali-3; Raigarh: Dharamjaigarh-4, Gharghoda-2; **Coastal Andhra Pradesh & Yanam:** Nellore: Visakhapatnam-3; Vizianagaram: Bodapalle-4, Gajapathingaram-3; **Jharkhand:** Simdega: Kurdeg-3.
- Minimum temperatures are above normal by 2-4°C over isolated parts of Punjab and many parts of central, east & northeast India; these are near normal or below normal by 2-3°C over rest parts of north & central India.
- **Dense to Very Dense Fog** prevailed in isolated pockets over West Uttar Pradesh and West Madhya Pradesh and **Dense Fog** in isolated pockets over Jammu & Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, East Rajasthan, East Madhya Pradesh, East Uttar Pradesh and Madhya Maharashtra.
- **Severe Cold Day conditions** observed in isolated parts over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and East Madhya Pradesh and **Cold day conditions** observed in isolated parts over West Madhya Pradesh.

**Synoptic Situations:**

- A cyclonic circulation lies over West Uttar Pradesh & neighbourhood and extends upto 3.1 km above mean sea level.
- A trough with its axis at 5.8 km above mean sea level runs roughly along Long. 82°E to the north of Lat. 22°N.
- A cyclonic circulation lies over south Konkan & neighbourhood seen between 1.5 km & 2.1 km above mean sea level.
- A fresh Western Disturbance likely to affect Western Himalayan Region from 16th and another Western Disturbance likely to affect Northwest India from 18th January 2022.

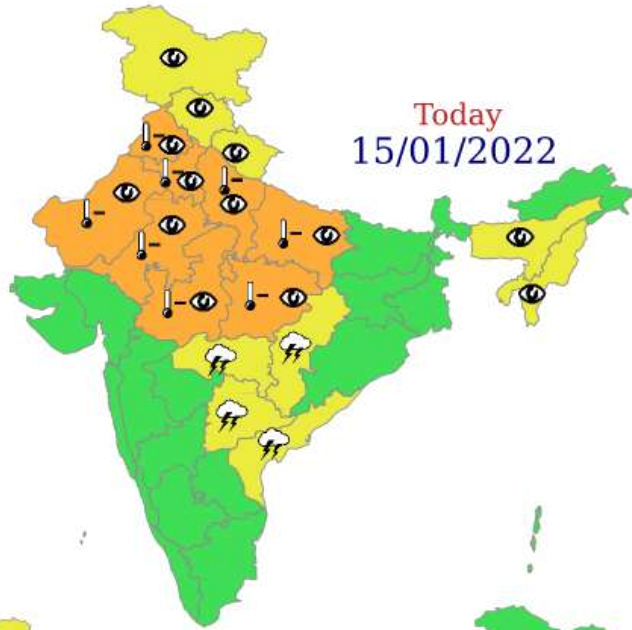
- **Forecast & Warnings:**

- ✓ Isolated to scattered light/moderate rainfall over Coastal Andhra Pradesh during 15<sup>th</sup> to 17<sup>th</sup> January; over East Madhya Pradesh, Vidarbha, Chhattisgarh & Telangana on 15<sup>th</sup> January and over Rayalaseema, Tamilnadu & Kerala & Mahe during next 4-5 days.
- ✓ Isolated light/moderate rainfall very likely over Odisha, Jharkhand & Gangetic West Bengal on 15<sup>th</sup> January, 2022.
- ✓ **Isolated thunderstorms with lightning** very likely over Vidarbha, Chhattisgarh & Telangana on 15<sup>th</sup> and over Coastal Andhra Pradesh on 15<sup>th</sup> & 16<sup>th</sup> January.
- ✓ Isolated light/moderate rainfall over Arunachal Pradesh and Assam & Meghalaya on 15<sup>th</sup> and over Nagaland, Manipur, Mizoram & Tripura during on 15<sup>th</sup> & 16<sup>th</sup> January.
- ✓ Isolated to scattered light/moderate rainfall over Western Himalayan Region during 16<sup>th</sup>-19<sup>th</sup> January, 2022.

- I. **Fog, Cold Day and Cold wave:**

- ✓ **Dense Fog** at a few places with **Very Dense Fog** at isolated places in night/morning hours very likely over West Uttar Pradesh during next 24 hours and Dense to very Dense Fog at isolated places during subsequent 3 days; **Dense to Very Dense Fog** in night/morning hours in isolated pockets over Western Himalayan Region, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh and Rajasthan during next 2 days ; over East Uttar Pradesh during next 4 days and over Odisha & Jharkhand during 18<sup>th</sup>-20<sup>th</sup> January, 2022.
- ✓ **Cold Day to Severe Cold Day Conditions** in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh and Rajasthan during next 2 days.
- ✓ **Cold wave conditions** in isolated pockets very likely over East Rajasthan during next 24 hours.

**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)



**Impact expected and action suggested due to Dense/Very Dense fog in the night/morning hours very likely over Western Himalayan Region, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh and Rajasthan during next 2 days; over Uttar Pradesh during next 4 days and over Odisha & Jharkhand during 18<sup>th</sup>-20<sup>th</sup> January, 2022.**

### **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** over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh and Rajasthan 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



Thunderstorm with Lightning



Visibility/Fog



Cold wave/Cold day



Frost

### 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