



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

Press Release

Date: 19th January, 2022

Time of Issue: 1300 hrs IST

Subject: Wet spell over Northwest and adjoining Central India during 21st-24th January and over East India during 22nd -24th January, 2022.

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

- Minimum temperatures are below normal by 2-4° C at many places over Madhya Pradesh and Odisha and at isolated places over West Bengal, Chhattisgarh and Jharkhand.
- **Dense to Very Dense Fog** in isolated pockets of north Madhya Pradesh and West Uttar Pradesh.
- **Cold Day to Severe Cold Day conditions** prevailed in many parts of Uttar Pradesh, in isolated pockets over north Madhya Pradesh, Haryana and Bihar. The **severe Cold Day conditions have abated** with increase in day temperatures over most parts of Rajasthan and Punjab. However, **Cold Day conditions** prevailed in some pockets over Punjab and Delhi.

Synoptic Situations:

- A cyclonic circulation lies over north Bangladesh & neighbourhood at lower tropospheric level.
- A Western Disturbance as a trough with its axis at lower tropospheric level runs roughly along Long. 60° E to the north of 32° N.
- A fresh active Western Disturbance is likely to affect Northwest India from 21st January onwards. An induced cyclonic circulation is very likely to form over southwest Rajasthan on 22nd January, 2022.

Forecast & Warnings:

- ✓ Isolated to scattered rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand during next 3 days and increase thereafter with fairly widespread to widespread rainfall/snowfall over the region during 22nd-23rd January and reduction thereafter. Isolated **heavy rainfall/snowfall** very likely over Himachal Pradesh on 22nd January.
- ✓ Isolated to scattered rainfall very likely over Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh, north Rajasthan on 21st and increase thereafter with fairly widespread to widespread rainfall very likely over the region during 22nd-23rd January. Isolated to scattered rainfall over Madhya Pradesh during 21st to 23rd January and reduction thereafter. Isolated **heavy rainfall** likely over Punjab and Haryana on 22nd January.

- ✓ Scattered to fairly widespread light/moderate rainfall very likely over Bihar, Jharkhand and West Bengal & Sikkim on 22nd & 23rd January.
- ✓ **Isolated thunderstorm with lightning & hail** very likely over Himachal Pradesh, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, north Rajasthan and Sub-Himalayan West Bengal & Sikkim on 22nd January; over northwest Madhya Pradesh on 21st & 22nd; over East Madhya Pradesh on 22nd January; over Bihar on 22nd & 23rd and over Jharkhand and Gangetic West Bengal on 23rd January, 2022.
- ✓ Scattered to fairly widespread light/moderate rainfall over northeast India during 20th-23rd January.

Fog and Cold Day:

- ✓ Minimum temperatures are likely to rise by 2-4° C over Northwest & Central India during next 3-4 days.
- ✓ **Dense Fog** in night/morning hours very likely in isolated pockets over Punjab, Haryana, Uttar Pradesh, north Madhya Pradesh and Bihar during next 2 days.
- ✓ **Cold Day to Severe Cold Day Conditions** in some parts very likely over Uttar Pradesh and Bihar during next 2 days and **Cold Day Conditions** in isolated pockets over Punjab, Haryana, north Madhya Pradesh during next 24 hours.

For more details refer: 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 West Uttar Pradesh during next 24 hours.**

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** Uttar Pradesh, north Madhya Pradesh and Bihar during next 1-2 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)

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)



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

