



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 24th January, 2022
Time of Issue: 1300 hrs IST

Subject: I) Cold Day & Dense Fog over plains of Northwest India during 2 days
II) Cold Wave conditions over most parts of Northwest India and Madhya Pradesh after 24 hours for subsequent 4 days.

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

- **Rainfall observed(in cm): East Uttar Pradesh:** Siddharth Nagar: Bnasi Tehsil-15, Bansi CWC & Kakrahi-10 each, Shrawasti: Bhinga-6; **West Uttar Pradesh:** Jyotiba Phule Nagar: Amroha-9, Bareilly: Baheri-6; **Himachal Pradesh:** Shimla: Khadralla-7, Bilaspur: Nainadevi-5, Sirmaur: Sangraha & Dadhau-4 each, Kangra: Dharamshala-4, Hamirpur: Bhoranji & Bharari-4 each; **Punjab:** Pathankot: Phangota-5, Rupnagar: Nangal-5, Anandpur Sahib & Ropar-4 each; **Haryana-Chandigarh:** Chandigarh: Chandigarh-4, Chandigarh IAF-3, Panchkula: Morni, Panchkula & Raipur Rani-3 each; **Uttarakhand:** Haridwar: Haridwar & Poshnabad-4 each, Bhagwanpur & Roorkee-3 each, Gharwal Pauri: Kotdwar-4, Dehradun: Haripur & Mussoorie-3 each, Rishikesh-2, Almora: Ranikhet-2, **Jammu-Kashmir:** Anantnag: Pahalgam-2, Kargil: Kargil-2, Kulgam: Kulgam-2, Rambam: Banihal & Batote-2 each.
- **Heavy to very Heavy Rainfall** observed in isolated places over East Uttar Pradesh and **Heavy Rainfall** over West Uttar Pradesh & Himachal Pradesh.
- **Cold Day to Severe Cold Day conditions** prevailed in some parts of Himachal Pradesh, West Madhya Pradesh, Haryana-Chandigarh and Uttarakhand and **Cold Day conditions** in isolated pockets over East Madhya Pradesh, West Uttar Pradesh, Rajasthan, Jammu division.
- Minimum temperatures are above normal by 2-4°C over few parts of Northwest, Central, East & Northeast India and below normal by 2-4°C over few parts of Rajasthan, Gujarat, Madhya Pradesh & Maharashtra.
- **Dense to very Dense Fog** in isolated pockets of Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, Chhattisgarh, Madhya Maharashtra, Jharkhand and Assam & Meghalaya

Synoptic Situations:

- The Western Disturbance as a cyclonic circulation lies over Punjab & neighbourhood in lower tropospheric levels with a trough aloft in mid & upper tropospheric levels along Long. 75°E to the north of Lat. 32°N.
- A cyclonic circulation lies over Jharkhand & neighbourhood at lower tropospheric levels.
- A trough runs from cyclonic circulation over Punjab to cyclonic circulation over Jharkhand at lower tropospheric levels.
- A fresh Western Disturbance is very likely to affect Western Himalayan Region from 29th January, 2022.

Forecast & Warnings:

- ✓ Isolated to Scattered light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh & Uttarakhand on 24th and light isolated rainfall/snowfall on 25th January and dry weather thereafter for subsequent 3 days.
- ✓ Isolated light rainfall very likely over Punjab, Haryana & Chandigarh and Uttar Pradesh during next 24 hours and dry weather thereafter.
- ✓ Scattered to fairly widespread light/moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim during 24th-26th and isolated rainfall thereafter.
- ✓ Isolated light rainfall very likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha on 24th & 25th January and isolated light rainfall over Andaman & Nicobar Islands during next 5 days.
- ✓ Scattered to Fairly widespread light/moderate rainfall very likely over Northeast India during 24th-27th January.
- ✓ Under the influence of a fresh Western Disturbance from 29th January, 2022, light isolated to scattered rainfall/snowfall is likely over Western Himalayan Region from 29th to 31st January, 2022.

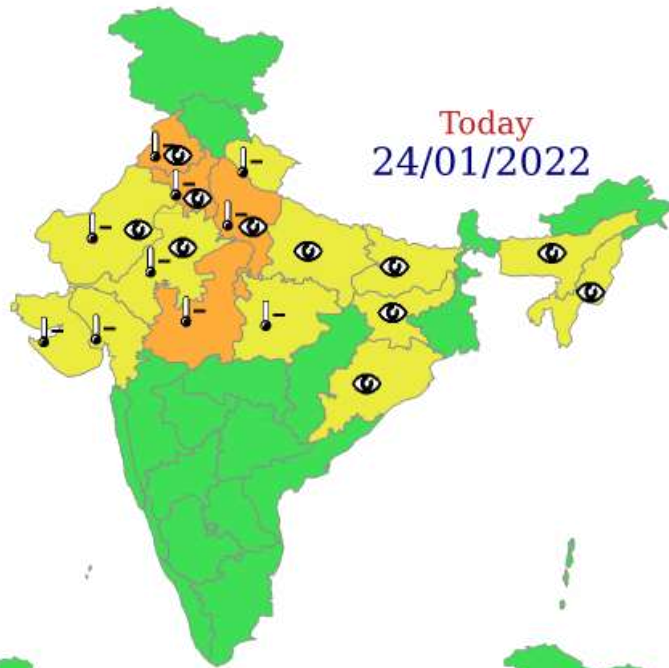
Fog and Cold Day:

- ✓ Gradual fall in minimum temperatures by 3-5°C very likely over most parts of Northwest & Central India during next 5 days.
- ✓ No significant change in minimum temperatures very likely over East India during next 24 hours and fall by 4-5°C during subsequent 4 days.
- ✓ Fall in minimum temperatures by 2-3°C very likely over Gujarat state during next 2 days and no significant change thereafter.
- ✓ **Dense to very Dense fog conditions** in night/morning hours very likely in isolated pockets over Punjab & West Uttar during next 2 days; **Dense fog conditions** in isolated pockets very likely over north Rajasthan and Jharkhand during next 24 hours; over West Bengal & Sikkim on 26th January; over Haryana-Chandigarh-Delhi, East Uttar Pradesh, Bihar, Assam & Meghalaya & Tripura during next 2 days and over Odisha during next 3 days.
- ✓ **Cold day to Severe Cold day conditions** very likely in some pockets over West Madhya Pradesh during next 3 days and in isolated pockets over Rajasthan & Gujarat Region during next 24 hours; over Punjab, Haryana-Chandigarh-Delhi and East

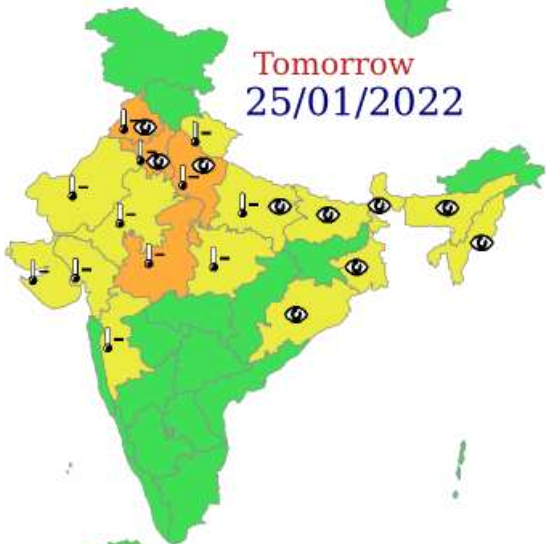
Madhya Pradesh during next 3 days; and over Uttarakhand, West Uttar Pradesh & Saurashtra & Kutch during next 2 days.

- ✓ **Cold wave to severe Cold wave conditions** very likely in isolated pockets over Saurashtra & Kutch during next 2 days and over Rajasthan on 27th & 28th and **Cold wave conditions** very likely in isolated pockets over Punjab, Haryana-Chandigarh during 25th-29th; over Gujarat Region during next 4 days over Rajasthan during next 5 days; over West Uttar Pradesh during 27th-29th; over north Madhya Maharashtra on 26th & 27th and over East Uttar Pradesh on 28th & 29th on January, 2022.

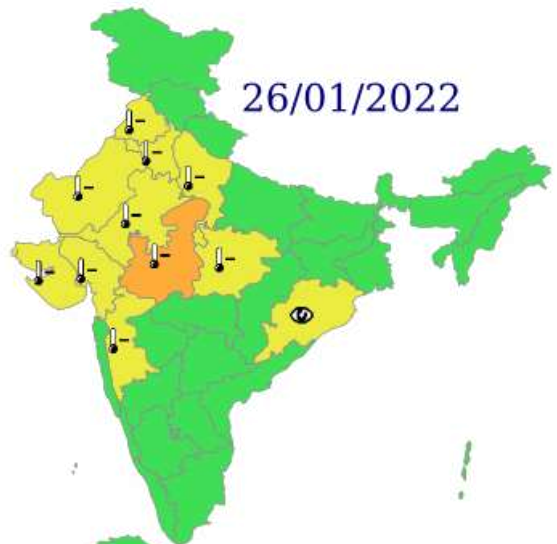
For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



Today
24/01/2022



Tomorrow
25/01/2022



26/01/2022



27/01/2022



28/01/2022

- ✓ **Impact expected and action suggested due to Very Dense fog in the night/morning hours very likely over Punjab & West Uttar during next 2 days and Dense fog very likely over north Rajasthan, Jharkhand during next 24 hours; over West Bengal & Sikkim on 26th January; over Haryana-Chandigarh-Delhi, East Uttar Pradesh, Bihar, Assam & Meghalaya & Tripura during next 2 days and over Odisha during next 3 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 some pockets over West Madhya Pradesh during next 3 days and in isolated pockets over Rajasthan & Gujarat Region during next 24 hours; over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh during next 3 days and over Uttarakhand, West Uttar Pradesh & Saurashtra & Kutch 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)

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

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

 Thunderstorm with Lightning

 Visibility/Fog

 Cold wave/Cold day

 Frost