



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

Press Release

Date: 27th January, 2022

Time of Issue: 1315 hrs IST

**Subject: I) Cold Wave conditions over Northwest during next 2 days and over Central & adjoining east India during next 3 days.
II) Cold Day conditions over parts of Northwest India & over Madhya Pradesh during next 2 days.**

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

- **Cold Day to Severe Cold day** conditions prevailed in isolated pockets over East Rajasthan & Madhya Pradesh and **Cold Day** conditions in isolated pockets over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh, Vidarbha, Chhattisgarh, North Madhya Maharashtra and Marathwada.
- **Dense to Very Dense Fog** observed in isolated pockets over Punjab & East Uttar Pradesh and **Dense Fog** over Jammu Division, Himachal Pradesh, Uttarakhand, Chandigarh, West Uttar Pradesh and East Rajasthan.
- **Cold Wave to Severe Cold Wave** conditions observed in isolated pockets over Madhya Pradesh and **Cold Wave** conditions observed in isolated pockets over Punjab, Rajasthan, Vidarbha, Chhattisgarh and Gujarat Region.

Synoptic Situations:

- The Western Disturbance as a trough in middle tropospheric runs along Long. 85°E to the north of Lat. 28°N.
- A north-south trough runs roughly along Long. 92°E to the north of Lat. 21°N in lower tropospheric levels.
- A trough runs from south Tamilnadu to South Interior Karnataka in lower tropospheric levels.
- A fresh feeble Western Disturbance is very likely to affect Western Himalayan Region from 29th January and another Western Disturbance likely to affect Northwest India from 02nd February, 2022.

Rainfall Forecast & Warnings:

- Isolated light rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 27th & 28th and dry weather thereafter. Isolated light rainfall over Andaman & Nicobar Islands during next 4 days.
- Scattered to fairly widespread light/moderate rainfall very likely over Arunachal Pradesh and Isolated to scattered rainfall over Assam & Meghalaya, Nagaland, Manipur,

Mizoram, Tripura on 27th & 28th January, 2022. Isolated **thunderstorms/lightning** is also very likely over the above region during next 24 hours.

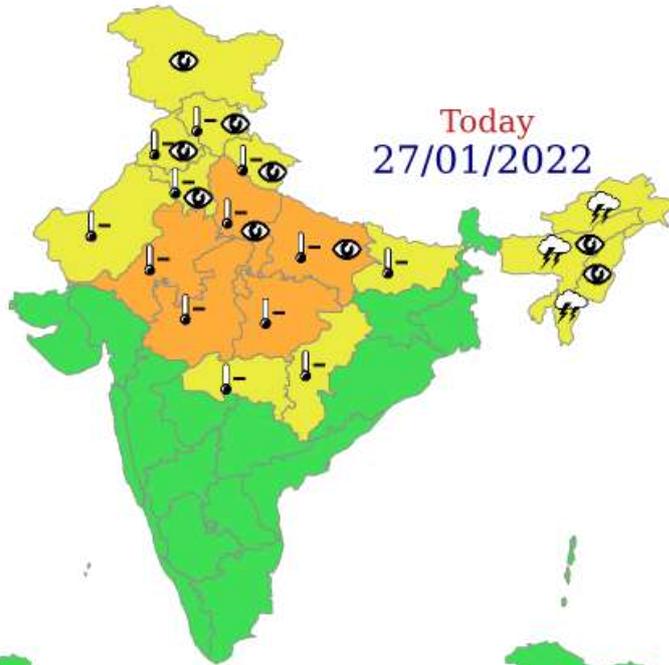
- Isolated light rainfall very likely over South Interior Karnataka & Rayalaseema during next 2 days; over Coastal Andhra Pradesh-Yanam, during next 3 days; and over Tamilnadu-Puducherry-Karaikal and Kerala-Mahe during next 5 days.
- Under the influence of a fresh Western Disturbance from 29th January, 2022, light isolated rainfall/snowfall is likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad from 29th to 31st January, 2022.
- Under the influence of another Western Disturbance, scattered to fairly widespread rainfall/snowfall likely over Western Himalayan Region and light isolated rainfall over adjoining plains from 2nd to 04th February, 2022,

Cold Wave, Fog and Cold Day Warning:

- No significant change in minimum temperatures very likely over most parts of Northwest India during next 3 days and gradual rise by 2-3°C thereafter.
- Fall in minimum temperatures by 2-4°C very likely over East India during next 2 days and no significant change thereafter.
- Gradual rise in minimum temperatures by 2-3°C very likely over Gujarat state during next 3 days and no significant change thereafter.
- **Cold wave conditions** in isolated pockets very likely over Punjab, Haryana-Chandigarh, Rajasthan, West Uttar Pradesh, Vidarbha, Bihar and Chhattisgarh during next 2-3 days and over Odisha during 28th to 30th January, 2022.
- **Cold wave to severe cold wave conditions** in isolated pockets very likely over Madhya Pradesh during next 24 hours and in isolated pockets during subsequent 4 days.
- **Cold Day to Severe Cold Day conditions** in isolated pockets very likely over Madhya Pradesh during next 24 hours and **Cold Day conditions** in isolated pockets for subsequent 2 days.
- **Cold Day conditions** in isolated pockets very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh and Vidarbha during next 24 hours; and over Uttar Pradesh and Chhattisgarh during next 2 days.
- **Dense Fog conditions** in isolated pockets in night/morning hours very likely to continue to prevail over Western Himalayan Region, Punjab, Haryana, Chandigarh & West Uttar Pradesh during next 24 hours and over East Uttar Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 48 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 in isolated pockets in night/morning hours over Western Himalayan Region, Punjab, Haryana, Chandigarh & West Uttar Pradesh during next 24 hours and over East Uttar Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 48 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 some Cold Day conditions over parts of Northwest India & over Madhya 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)

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