



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 26th January, 2022

Time of Issue: 1300 hrs IST

**Subject: I) Cold Wave conditions over Northwest and Central India during next 3-4 days.
II) Cold Day conditions over Northwest India & Madhya Pradesh during next 2 days and abate thereafter.**

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 Punjab, Haryana-Chandigarh-Delhi & West Madhya Pradesh and **Cold Day conditions** in isolated pockets over Uttarakhand, East Madhya Pradesh, Uttar Pradesh, East Rajasthan, Vidarbha and Gujarat State.
- Minimum temperatures are below normal by 2-4°C over most parts of Northwest & Central India and 1-3°C over East India.
- **Dense to Very Dense Fog** in isolated pockets of Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh and **Dense Fog** in isolated pockets of East Rajasthan.

Synoptic Situations:

- The Western Disturbance as a cyclonic circulation lies over northwest Uttar Pradesh in lower tropospheric levels with trough aloft in mid & upper tropospheric westerlies runs roughly along Long.78°E to the north of Lat. 30°N.
- 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.

Forecast & Warnings:

- ✓ Fairly widespread light/moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 26th and isolated rainfall on 27th & 28th January. Isolated light rainfall very likely over Jharkhand, Gangetic West Bengal and Odisha during next 24 hours; and isolated light rainfall over Andaman & Nicobar Islands during next 5 days. Isolated **thunderstorms/lightning/hail** very likely over Sub-Himalayan West Bengal & Sikkim during next 24 hours.
- ✓ Scattered light/moderate rainfall very likely over Northeast India during 26th-28th January and dry weather thereafter. Isolated **thunderstorms/lightning** is also very likely over the region during next 24 hours.

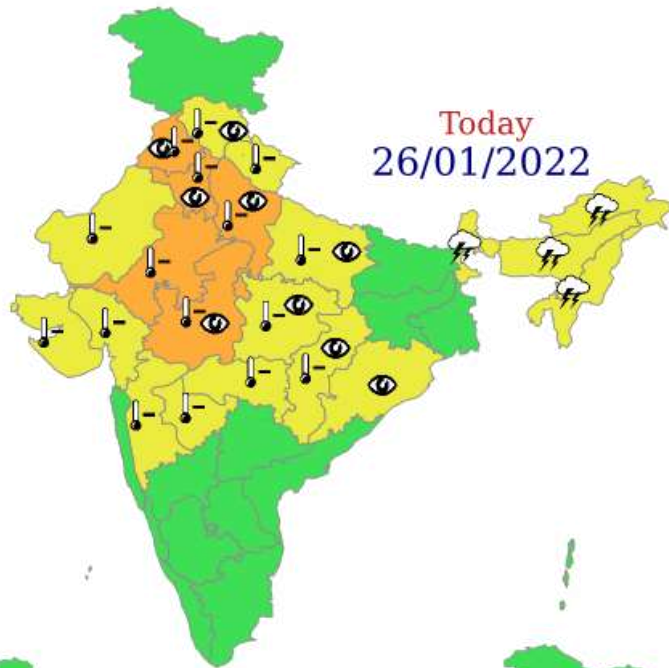
- ✓ Isolated light rainfall very likely over South Interior Karnataka during next 2 days; over Coastal Andhra Pradesh-Yanam, Rayalaseema & Kerala-Mahe during next 3 days and over Tamilnadu-Puducherry-Karaikal during next 5 days.
- ✓ Under the influence of a fresh Western Disturbance from 29th January, 2022, light isolated rainfall/snowfall is likely over Western Himalayan Region from 29th to 30th January, 2022.

Fog and Cold Day:

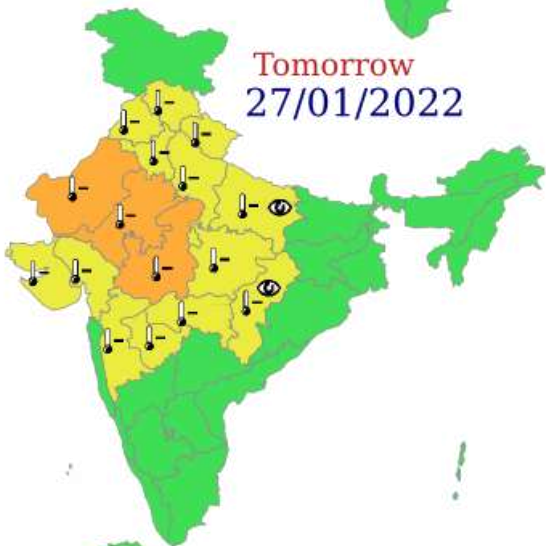
- Fall in minimum temperatures by 2-3°C very likely over most parts of Northwest India during next 3 days and gradual rise by 2-3°C thereafter.
- Fall in minimum temperatures by 4-5°C very likely over East India during next 3 days and no significant change thereafter.
- No significant change in minimum temperatures very likely over Gujarat state and Maharashtra during next 2-3 days and gradual rise by 2-4°C thereafter.
- Large scale **Dense Fog conditions** are unlikely over the plains of Northwest India during next 5 days, however;
 - **Isolated Dense/Very Dense Fog conditions** in night/morning hours in isolated pockets very likely to continue to prevail over Punjab, Haryana & West Uttar Pradesh during next 24 hours and abates thereafter.
 - **Dense Fog conditions** very likely over Himachal Pradesh, West Madhya Pradesh & Odisha during next 24 hours; over East Uttar Pradesh during next 2 days and over Sub-Himalayan West Bengal-Sikkim during 28th-30th and abates thereafter.
- **Cold Day conditions** over Northwest India & Madhya Pradesh during next 2 days and abate thereafter.
 - **Cold Day/Severe Cold Day conditions** in isolated/some parts very likely over Madhya Pradesh during next 2 days and gradually abates thereafter.
 - **Cold Day conditions** in isolated pockets very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan and Uttar Pradesh during next 24 hours and gradually abates thereafter.
 - **Cold Day conditions** in isolated pockets very likely over Vidarbha, north Madhya Maharashtra, Chhattisgarh and Marathwada during next 24 hours and gradually abates thereafter.
- **Cold Wave conditions** over most parts of Northwest India and parts of Central India during next 3-4 days.
 - **Cold wave conditions** in isolated pockets very likely over Vidarbha, north Madhya Maharashtra, Marathwada and Gujarat state during next 2 days; over Punjab, Haryana-Chandigarh-Delhi, north Rajasthan, Madhya Pradesh, Odisha and Chhattisgarh during next 3-4 days.

For more details refer:

https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



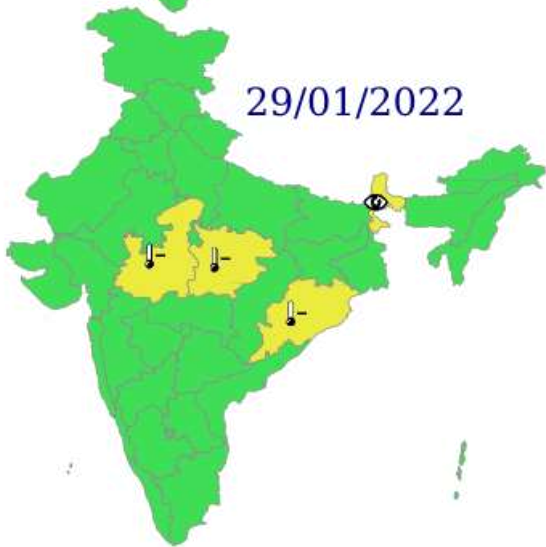
Today
26/01/2022



Tomorrow
27/01/2022



28/01/2022



29/01/2022



30/01/2022

Impact expected and action suggested due to Very Dense Fog in the night/morning hours very likely over Punjab, Haryana & West Uttar Pradesh during next 24 hours; **Dense Fog** in isolated pockets over Himachal Pradesh, West Madhya Pradesh & Odisha during next 24 hours; over East Uttar Pradesh during next 2 days and over Sub-Himalayan West Bengal & Sikkim during 29th January to 01st February.

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 parts over West Madhya Pradesh during next 2-3 days & over East Madhya Pradesh during next 24 hours and in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, north Rajasthan, Vidarbha, north Madhya Maharashtra and Marathawada during next 24 hours and over Himachal Pradesh, Uttarakhand, Uttar Pradesh and Chhattisgarh 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)



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

