



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 16th January, 2022

Time of Issue: 1245 hrs IST

Subject:

- I. Dense to Very Dense Fog over parts of Northwest India during next 3 days.**
- II. Cold to severe cold day over Northwest & Central India during next 2 days.**

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

- **Rainfall (in cm):** **Telangana: Suryapet:** Noothankal-8, **Rangareddy:** Sarrornagar-6.
- Minimum temperatures are above normal by 2-4°C over isolated parts of Punjab and some 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 some pockets over Rajasthan, Madhya Pradesh and East Uttar Pradesh and isolated pockets over Jammu Division, Uttarakhand, Himachal Pradesh and Assam.
- **Cold Day to Severe Cold Day conditions** in most places over Delhi; in many places over Punjab and Haryana; in some places over Madhya Pradesh and east Rajasthan and in isolated places over northwest Rajasthan and Uttar Pradesh.

Synoptic Situations:

- A trough in westerlies in middle tropospheric levels runs along Long.90°E to the north of Lat. 22°N.
- A cyclonic circulation now lies over Eastcentral Arabian Sea and adjoining Konkan Coast in lower tropospheric levels.
- A fresh Western Disturbance likely to affect Western Himalayan Region from 18th January 2022. Another Western Disturbance is likely to affect northwest India from 21st January, 2022.

Forecast & Warnings:

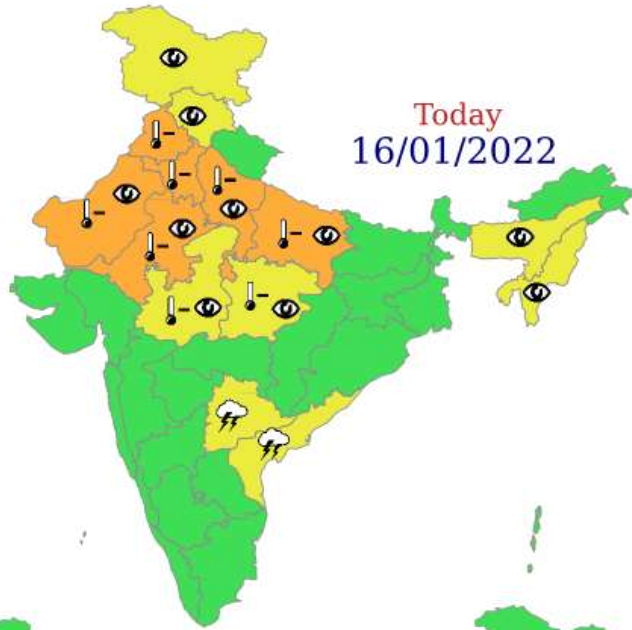
- ✓ Isolated to scattered light/moderate rainfall over Telangana on 16th; over Coastal Andhra Pradesh & Rayalaseema on 16th & 17th January and over Tamilnadu & Kerala & Mahe during next 3 days.
- ✓ Isolated light/moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands during 18th-20th January, 2022.
- ✓ **Isolated thunderstorms with lightning** very likely over Telangana and Coastal Andhra Pradesh on 16th January.
- ✓ Isolated to scattered light/moderate rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during on 19th & 20th January.

- ✓ Isolated to scattered light/moderate precipitation over Jammu & Kashmir, Ladakh during 16th-20th; isolated light/moderate precipitation over Himachal Pradesh during 1st-20th and over Uttarakhand during 18th -20th January, 2022. Thereafter, under the influence of another Western Disturbance, scattered to fairly widespread rainfall/snowfall likely over Western Himalayan Region and isolated to scattered rainfall over adjoining plains of northwest India during 21st to 23rd January, 2022.

Fog, Cold Day and Cold wave:

- ✓ **Dense to Very Dense Fog** in isolated parts in night/morning hours very likely over Rajasthan and East Uttar Pradesh during next 2 days and **Dense Fog** in isolated parts in night/morning hours over Jammu division and Himachal Pradesh on 16th /17th; over West Uttar Pradesh and north Madhya Pradesh during next 2 days.
- ✓ **Cold Day to Severe Cold Day Conditions** in some/isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh and Rajasthan during next 2 days and over East Uttar Pradesh during next 3 days.
- ✓ **Cold wave conditions** in isolated pockets very likely over East Rajasthan and 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 Jammu division, Himachal Pradesh on 16th/17th; over Rajasthan, Uttar Pradesh and north Madhya Pradesh during next 2 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/isolated parts over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh and Rajasthan during next 2 days and over East Uttar Pradesh during next 3 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

- Thunderstorm with Lightning**
- Visibility/Fog**
- Cold wave/Cold day**
- Frost**