



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 07th February, 2022

Time of Issue: 1200 hrs IST

Subject: Wet Spell over Western Himalayan Region and adjoining plains of Northwest India on 08th & 09th February and over East India on 09th & 10th February, 2022.

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

- **Minimum temperatures** are below normal by about 2-3°C over most parts of northwest, central & east India.
- **Cold Day** conditions prevailed in some parts of East Uttar Pradesh & Bihar and in isolated pockets over West Uttar Pradesh.
- **Cold Wave** conditions observed in isolated pockets over East Uttar Pradesh.
- **Dense to very dense fog in some pockets** over East Uttar Pradesh and in isolated pockets over East Bihar; **Moderate to dense fog** in isolated pockets over Jammu division, Uttarakhand, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Tripura.

Weather Systems and associated forecast & warnings:

- The Western Disturbance as a the trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level now runs roughly along Long. 65°E to the north of Lat. 28°N. An induced cyclonic circulation lies over West Rajasthan & neighbourhood in lower tropospheric levels. Under its influence; scattered light rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad during next 24 hours and isolated rainfall/snowfall during subsequent 24 hours; isolated rainfall/snowfall over Himachal Pradesh and Uttarakhand during next 2 days.
- **A fresh Western Disturbance and its induced cyclonic circulation very likely to affect Northwest India from the night of 08th February; it is very likely to cause**
 1. Scattered to fairly widespread light/moderate rainfall/snowfall with thunderstorm & lightning over Western Himalayan Region (over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) during night of 08th and 09th February, 2022.
 2. Fairly widespread rainfall with **thunderstorm & lightning** likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and isolated rainfall over East Uttar Pradesh & north Rajasthan on 09th February. Isolated **hailstorm** likely over West Uttar Pradesh on 09th February.

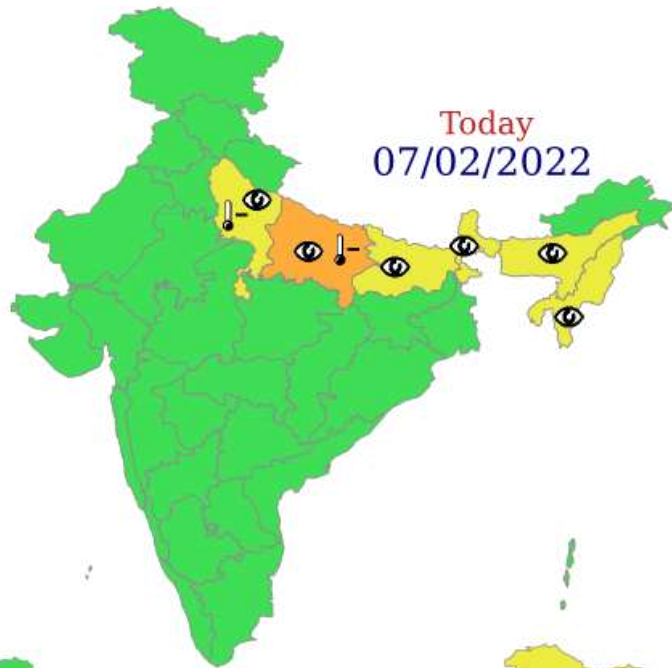
3. Isolated to scattered rainfall likely over West Bengal, Sikkim, Bihar, Jharkhand and north Odisha on 09th & 10th February, 2022.

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 fall by 2-4°C during subsequent 2 days.
- Gradual rise in minimum temperatures by 2-4°C very likely over most parts of East India during next 3 days and no significant change during subsequent 2 days.
- No significant change in minimum temperatures very likely over most parts of West India during next 2 days and gradual fall by 2-4°C during subsequent 3 days.
- **Dense Fog Conditions** very likely in isolated/some parts in night/morning hours over Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Assam, Meghalaya and Tripura during next 2 days and over Odisha on 09th February.
- **Cold Day to Severe Cold Day Conditions** very likely in isolated pockets over East Uttar Pradesh during next 48 hours; cold day over West Uttar Pradesh during next 24 hours and abate thereafter.

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 isolated/some parts very likely over Uttar 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.

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**