



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

**Press Release**

**Date: 11<sup>th</sup> January, 2022**

**Time of Issue: 1330 hrs IST**

**Subject:**

- I. Enhanced rainfall/thunderstorms activity over East & adjoining Central India till 14<sup>th</sup> January, 2022.**
- II. Dense to very dense fog over parts of northwest India during next 4-5 days.**

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

- **Precipitation (in cm):** **Telangana:** Jangaon: Bachhanpet-7, Jangaon & Palakurthi-6 each; Jagtial: Jagtial & Sarangapur-5 each; Kumaram Bheem: Kerameri: 5; Rajanna Sircilla: Chandurthi-7; Siddipet: Kondapak-6; Warangal: Narsampet & Parvathagiri-6 each. **Chhattisgarh:** Kondagaon: Keshkal-5; Rajnandgaon: Manpur-4.
- **Thunderstorm accompanied with Hail** observed in isolated places over Telangana.
- Yesterday, **Cold Day conditions** observed in many parts and severe Cold day conditions in isolated pockets over East Rajasthan and West Madhya Pradesh and Cold day conditions in isolated pockets over Gujarat state.
- **Fog (at 0830 hours IST of today):** **Dense to very dense fog** prevailed in some parts over Punjab, Haryana, Chandigarh & Delhi and Bihar and in isolated pockets over Himachal Pradesh and northwest Rajasthan and Moderate fog in isolated pockets over Uttar Pradesh.

**Forecast & Warnings:**

**I. Enhanced rainfall/thunderstorms activity over East & adjoining Central India:**

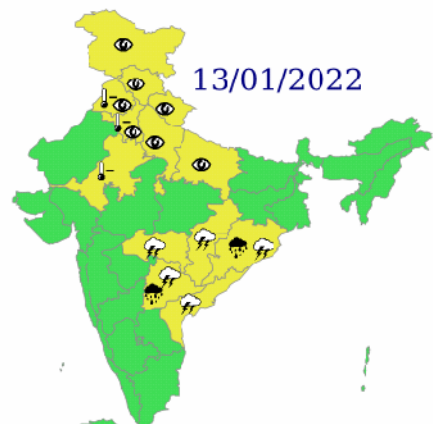
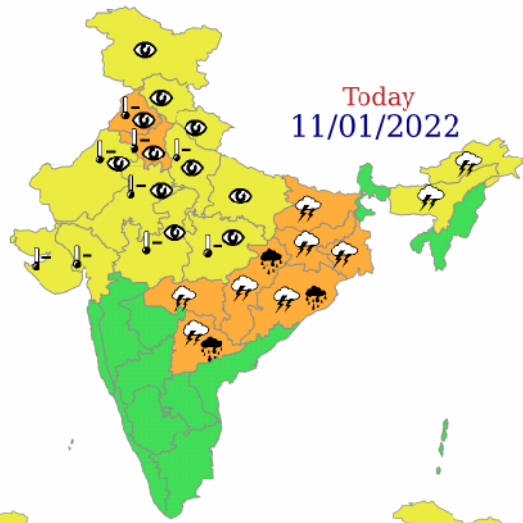
- The Western Disturbance as a cyclonic circulation lies over northwest Rajasthan & adjoining central Pakistan in lower & middle tropospheric levels.
- A trough runs from North Interior Karnataka to north Madhya Maharashtra at lower tropospheric levels.
- A cyclonic circulation lies over north Konkan & neighbourhood and a trough runs from the the cyclonic circulation to Jharkhand at lower tropospheric levels.
- The cyclonic circulation over Southwest Bay of Bengal & neighbourhood at lower tropospheric levels.
- **Confluence of winds from Arabian Sea and Bay of Bengal at lower tropospheric levels is very likely over East & adjoining central India during next 4 days.**
- Under the influence of above systems:

- ✓ Isolated light/moderate rainfall/snowfall very likely over Western Himalayan Region on 11<sup>th</sup> and dry weather for subsequent 4-5 days.
- ✓ Scattered to fairly widespread light/moderate rainfall very likely over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha West Bengal & Sikkim, Telangana and Coastal Andhra Pradesh during 11<sup>th</sup> to 14<sup>th</sup> January.
- ✓ **Isolated Heavy rainfall very likely over south Chhattisgarh on 11<sup>th</sup>; over Odisha on 11<sup>th</sup> & 13<sup>th</sup> and over Telangana during 11<sup>th</sup>-13<sup>th</sup> January, 2021.**
- ✓ **Isolated thunderstorms with lightning/Hail very likely over Vidarbha, Chhattisgarh, Jharkhand, Bihar & Gangetic West Bengal on 11<sup>th</sup>; over Odisha on 11<sup>th</sup> & 13<sup>th</sup>; over Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup> January, 2022.**
- ✓ Scattered to fairly widespread rainfall/snowfall very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 11<sup>th</sup>-13<sup>th</sup> January.
- **Under the influence of cyclonic circulation over Southwest Bay of Bengal & neighbourhood at lower tropospheric levels, isolated light rainfall/thundershower over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during next 4-5 days.**
- **Two fresh Western Disturbances very likely to affect northwest India, the 1<sup>st</sup> from 16<sup>th</sup> January and likely to cause isolated to scattered precipitation on 16<sup>th</sup> & 17<sup>th</sup>; the 2<sup>nd</sup> from 18<sup>th</sup> and likely to cause light/moderate scattered to fairly widespread precipitation over Western Himalayan Region and light isolated to scattered rainfall over adjoining plains for subsequent 2-3 days.**

## II. Minimum Temperatures, Cold wave and Fog:

- ✓ Minimum temperatures are above normal by 2-4°C over many parts of Punjab, Uttar Pradesh, north Madhya Pradesh and east & northeast India; these are near normal or below normal by 2-3°C over rest parts of north India
- ✓ Fall in minimum temperatures by 2-3°C very likely over most parts of plains of Northwest India during next 3 days and no significant change thereafter.
- ✓ **Cold wave conditions** in isolated pockets very likely over Punjab, Haryana & Chandigarh during 13<sup>th</sup>-15<sup>th</sup> and over northeast Rajasthan during 12<sup>th</sup>-14<sup>th</sup> January, 2022.
- ✓ **Cold day conditions** in isolated pockets very likely over Punjab, Haryana & Chandigarh, West Uttar Pradesh, north Rajasthan, Madhya Pradesh and Gujarat state during next 2 days.
- ✓ **Dense/very dense Fog** in some/isolated pockets in night/morning hours very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh during next 4-5 days; over north Rajasthan & north Madhya Pradesh during next 2 days.

**For more details refer:** [https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](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 at some/isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh during next 4-5 days; over north Rajasthan & 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 Thunderstorm, Lightning & Hail over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal Odisha & Telangana on 11<sup>th</sup> January, 2022.**

Impact expected:

- Hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

## 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)



Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

