



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 10th January, 2022
Time of Issue: 1330 hrs IST

Subject:

- I. Enhanced rainfall/thunderstorms activity over East & adjoining Central India till 14th January, 2022.**
- II. Dense fog and cold wave conditions 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): Himachal Pradesh:** Kandaghat-8, Dharampur, Solan, Paccjhad-7 each, rajgarh, Bharmaur, Khadralla, Kasauli, Sangraha, Shimla Airport, Sirmaur-6 each; Arki, Naina Davi, Baldwara, Jattom Barrage, Sindernagar, Nahan-5 each; Banjar, Kothi, Sarahan, Shimla, Mandi, Rampur, Karsog, Gohar, Manali-4 each; **East Madhya Pradesh:** Pawai (dist Panna) 6, Venkatnagar (dist Anuppur) 6, Gonour (dist Panna) 4, Buxwaha (dist Chhatarpur) 4; **West Uttar Pradesh:** Bijnor, Moradabad-6 each, Amroha-5, Nakur-4, **East Uttar Pradesh:** Chitrakoot-4; **Haryana:** Yamuna Nagar, Panchkula-5 each, Ambala-4, Chandigarh-3; **Uttarakhand:** Dehradun-3.
- **Dense to very dense fog in some places** over Punjab; **in isolated pockets** over northwest Rajasthan, Uttarakhand, East Uttar Pradesh, Bihar and Odisha.
- Isolated **hailstorm** occurred over Vidarbha.

Forecast & Warnings:

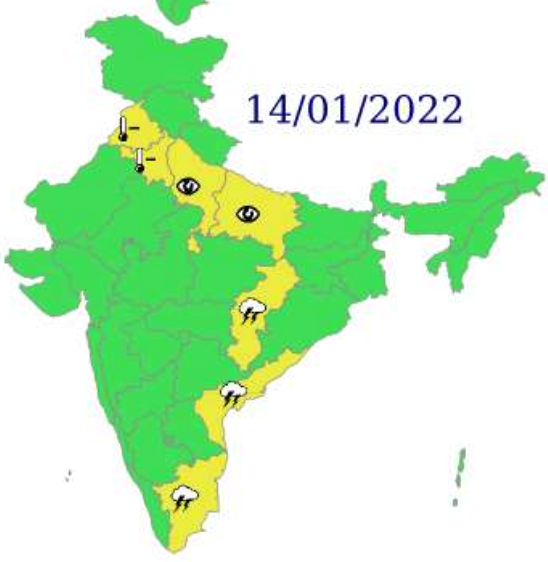
I. Enhanced rainfall/thunderstorms activity over East & adjoining Central India:

- The Western Disturbance as a cyclonic circulation lies over north Pakistan & adjoining Jammu division in lower & middle tropospheric levels with a trough aloft in upper tropospheric levels along Long. 75°E to the north of Lat. 26°N.
- The induced cyclonic circulation now lies over north Haryana & neighbourhood in lower tropospheric levels. A trough runs from this cyclonic circulation to southeast Madhya Pradesh at lower tropospheric levels.
- Another trough runs from North Interior Karnataka to north Madhya Maharashtra 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 4-5 days.**
- Under the influence of above systems:

- ✓ Isolated to scattered light/moderate rainfall/snowfall is very likely over Western Himalayan Region till 11th and dry weather for subsequent 3-4 days.
- ✓ Scattered to fairly widespread light/moderate rainfall very likely over Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim and Odisha during 10th to 14th January. Isolated to scattered rainfall very likely to continue over Uttar Pradesh and East Madhya Pradesh during next 2 days and decrease thereafter.
- ✓ **Isolated heavy rainfall very likely over Odisha on 11th & 13th January.**
- ✓ **Isolated thunderstorms with lightning/Hail very likely over Vidarbha on 10th & 13th; Chhattisgarh on 10th & 11th; Marathwada on 10th; Jharkhand, Bihar & Gangetic West Bengal on 11th; Sub-Himalayan West Bengal & Sikkim & Telangana on 12th and over Odisha on 11th & 13th January, 2022.**
- ✓ Scattered to fairly widespread rainfall/snowfall very likely over Arunachal Pradesh during 11th-13th and isolated to scattered rainfall very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 12th & 13th January.
- ✓ **Scattered to fairly widespread light/moderate rainfall/thundershower very likely over Coastal Andhra Pradesh & Telangana during next 4-5 days.**
- ✓ **Isolated thunderstorms with lightning/Hail also very likely over Telangana on 12th and heavy rainfall at isolated places over Coastal Andhra Pradesh & Telangana on 13th January.**
- ✓ **Under the influence of cyclonic circulation over Southwest Bay of Bengal & neighbourhood at lower & mid tropospheric levels, isolated light rainfall/thundershower over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during next 4-5 days.**

II. Minimum Temperatures, Cold wave and Fog:

- ✓ Minimum temperatures are above normal by 2-4°C over many parts of plains of Northwest, central & east India.
- ✓ Fall in minimum temperatures by 2-4°C very likely over most parts of plains of Northwest India during next 48 hours and no significant change thereafter.
- ✓ Gradual rise in minimum temperatures by 2-3°C over East India during next 24 hours and no significant change thereafter.
- ✓ Fall in minimum temperatures by 2-4°C very likely over north Madhya Maharashtra during next 2-3 days and no significant change thereafter
- ✓ **Cold wave conditions** in isolated pockets very likely over Punjab, Haryana & Chandigarh during 12th-15th and over north Rajasthan during 11th-13th January, 2022.
- ✓ **Cold day conditions** in isolated pockets very likely over Madhya Pradesh and Gujarat state during next 2 days.
- ✓ **Dense/very dense Fog** in isolated pockets in night/morning hours very likely over Punjab, Haryana, Uttar Pradesh during next 4-5 days; north Rajasthan during next 3 days.



Impact expected and action suggested due to Dense/Very Dense fog in the night/morning hours at isolated pockets over Punjab Haryana, Chandigarh, Uttar Pradesh during next 5 days and over Rajasthan during next 3 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