



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 12th January, 2022

Time of Issue: 1300 hrs IST

Subject:

I. Wet spell over East & adjoining Central India till 14th and over northeast India till 13th January, 2022.

II. Western Disturbance (WD) would affect northwest Himalayan Region on 16th & 17th and 2nd WD to affect Northwest India from 18th to 20th January, 2022.

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

- **Rainfall (in cm): Odisha:** Kandhamal: Kalinga-15, G Udayagiri-7, Tikabali-6; Bolangir: Salebhatta-7, Belpada-5; Nawrangpur: Jhorigam-7, Nawpada: Komna-6. **Telangana:** Warangal: Atmakurwrgl & Chennaraopet-8 each, Khanapur & Nallabelly-6 each; Mahabubabad: Gudurwrgl-7, Kothaguda-6; Y. Bhuvanagiri: Bhuvanagiri-7. **Chhattisgarh:** Kondagaon: Makadi, Keshkal & Kondagaon-7 each; Gariaband: Mainpur-6; Narayanpur: Narayanpur-6.
- **Thunderstorm accompanied with Hail** observed in isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal and Telangana.
- **Severe Cold Day conditions** observed in isolated pockets over West Madhya Pradesh & Punjab and **Cold Day conditions** over Gujarat Region, East Madhya Pradesh & north Rajasthan.
- **Fog (at 0830 hours IST of today): Dense to Very Dense fog** in isolated pockets over Punjab, Uttarakhand, Bihar, Jharkhand, West Uttar Pradesh and north Rajasthan.

Forecast & Warnings:

I. Wet spell over East & adjoining Central India and northeast India:

- The Western Disturbance as a cyclonic circulation lies over northeast Rajasthan in lower & middle tropospheric levels and the induced cyclonic circulation lies over northwest Uttar Pradesh in lower tropospheric levels.
- A trough runs from South Interior Karnataka to south Chhattisgarh in lower tropospheric levels.
- A cyclonic circulation lies over south Konkan in 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 3 days.**
- Under the influence of above systems:

- ✓ Isolated light/moderate rainfall/snowfall very likely over Himachal Pradesh & Uttarakhand on 12th January, 2022.
- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Telangana and Coastal Andhra Pradesh during 12th to 14th and isolated to scattered light/moderate rainfall over Vidarbha & Chhattisgarh during 12th to 14th January.
- ✓ **Isolated Heavy rainfall very likely over Odisha on 13th January, 2022.**
- ✓ **Isolated thunderstorms with lightning/Hail very likely over Chhattisgarh and West Bengal & Sikkim on 12th and over Odisha on 13th January.**
- ✓ Scattered to fairly widespread precipitation very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 12th & 13th and isolated precipitation over the region on 14th & 15th January.
- **Under the influence of a cyclonic circulation over Southwest Bay of Bengal and another over south Tamil Nadu in 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 1st from 16th January and likely to cause isolated to scattered precipitation on 16th & 17th; the 2nd from 18th 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 Haryana, Chandigarh, Uttar Pradesh, East Madhya Pradesh and east & northeast India; these are near normal or below normal by 2-3°C over rest parts of north India
- ✓ No significant change in minimum temperatures over most parts of Northwest India during next 3 days and gradual rise by 2-3°C thereafter.
- ✓ No significant change in minimum temperatures over Gujarat Region next 2 days and gradual rise by 2-4°C thereafter.
- ✓ No significant change in minimum temperatures over East India during next 3 days and fall by 2-3°C thereafter.
- ✓ **Cold wave conditions** in isolated pockets very likely over Punjab, north Rajasthan and Madhya Pradesh during next 48 hours.
- ✓ **Cold day to Severe Cold Day conditions** in some pockets over West Madhya Pradesh and in isolated pockets over East Madhya Pradesh during next 2 days and **Cold day conditions** in isolated pockets very likely over Gujarat state during next 24 hours and over Punjab, Haryana & Chandigarh and north Rajasthan during next 2 days.
- ✓ **Dense/Very Dense Fog** in isolated pockets in night/morning hours very likely over plains of Himachal Pradesh & Uttarakhand during next 2 days; north Rajasthan during next 3 days; over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh during next 4-5 days; over Assam & Meghalaya on 14th & 15th and over Nagaland, Manipur, Mizoram & Tripura on 15th January, 2022.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



Today
12/01/2022



Tomorrow
13/01/2022



14/01/2022



15/01/2022



16/01/2022

Impact expected and action suggested due to Dense/Very Dense fog in the night/morning hours very likely over plains of Himachal Pradesh & Uttarakhand during next 2 days; north Rajasthan during next 3 days; over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh during next 4-5 days; over Assam & Meghalaya on 14th & 15th and over Nagaland, Manipur, Mizoram & Tripura on 15th January, 2022.

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 Chhattisgarh and West Bengal & Sikkim on 12th and over Odisha on 13th January.

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

