



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

**Press Release
Date: 29th December, 2021
Time of Issue: 1330 hrs IST**

Subject:

- I. Wet spell over East & Northeast India during next 48 hours and dry weather thereafter.**
- II. An intense Western Disturbance is likely to affect Western Himalayan Region during 04th to 07th (with possibility of isolated heavy falls on 05th & 06th) and over plains of northwest India during 05th to 07th January, 2022.**
- III. Cold Wave Conditions in isolated pockets over northwest India during next 4-5 days.**

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

- **Scattered to fairly widespread rainfall with isolated hailstorm observed over Chhattisgarh, Vidarbha, Jharkhand and Odisha and isolated heavy rainfall also observed over Odisha, Jharkhand and Chhattisgarh.**
- **Significant amount of Rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today)(3 cm or more): **Odisha:** Bargarh-11, Sambalpur-7, Sundargarh, Deogarh-5 each, Hirakud, Jharsuguda-4 each; **Jharkhand:** Bokaro-8, Hazaribagh-5, Dhanbad, Jamshedpur, Ramgarh-4 each; **Chhattisgarh:** Kabirdham, Raipur-7 each, Mungeli, Raigarh-6 each, Bilaspur, Durg, Mahasamund, Rajnandgaon-5 each, Balod, Korba, Gariaband, Balrampur-4 each, Dhamtari-3; **East Madhya Pradesh:** Balaghat-6, Malanjkhand-5, Dindori, Mandla, Rewa, Umaria-3 each; **Vidarbha:** Gondia, Chandrapur-5 each, Bhandara, Gadchiroli, Akola, Bramhapuri-4 each, Nagpur-3; **West Madhya Pradesh:** Betul-4, Raisen-3; **North Sikkim-3; Bihar:** Gaya, Aurangabad-4 each, East Champaran, Gopalganj-3 each.

I. Wet spell over East & Northeast India during next 48 hours and dry weather thereafter.

- The Western Disturbance as a cyclonic circulation lies over northwest Uttar Pradesh & neighbourhood at lower tropospheric levels with the trough aloft along Long. 76°E to the north of Lat. 26°N in middle tropospheric levels.
- A cyclonic circulation lies over East Uttar Pradesh & adjoining Bihar and a trough runs from the cyclonic circulation to Telangana at lower tropospheric levels.
- Under the influence of these systems:
 - ✓ Light isolated rainfall very likely over Uttar Pradesh, East Madhya Pradesh, Chhattisgarh and Vidarbha during next 24 hours and dry weather over northwest & central India during subsequent 5 days.
 - ✓ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm, lightning & **hailstorm** very likely over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during next 24 hours and dry weather thereafter. **Heavy Rainfall** also likely over north interior Odisha during next 24 hours.

- ✓ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm, lightning & **hailstorm** also likely over western parts of Arunachal Pradesh and Assam & Meghalaya on 29th & over eastern parts on 30th December, 2021 and dry weather over the region thereafter.

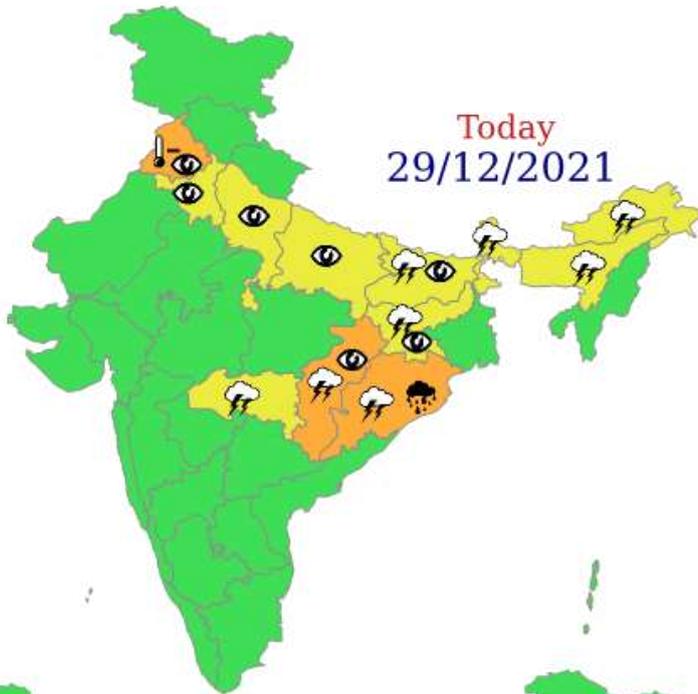
I. An intense Western Disturbance is likely to affect Western Himalayan Region during 04th to 07th (with possibility of isolated heavy falls on 05th & 06th) and over plains of northwest India during 05th to 07th January, 2022:

- ✓ Isolated to scattered rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 01st to 03rd January, 2022.
- ✓ A fresh active Western Disturbance and its induced cyclonic circulation is very likely to cause fairly widespread rainfall/snowfall during 04th to 07th with **possibility of isolated heavy falls on 05th & 06th over Jammu & Kashmir and Himachal Pradesh.**
- ✓ Light/moderate scattered to fairly widespread rainfall over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan & West Uttar Pradesh during 05th to 07th and light isolated rainfall is also likely over Madhya Pradesh, south Rajasthan & Gujarat on 06th & 07th January, 2022.

II. Minimum Temperatures, Cold Wave and Fog:

- Minimum temperatures are 2-5°C above normal over Rajasthan, Uttar Pradesh, Madhya Pradesh, East & north Peninsular India and near normal over rest parts of Northwest India & Northeastern states.
- Fall in minimum temperatures by 2-4°C over most parts of Northwest & Central India during next 48 hours and no significant change thereafter.
- No significant change in minimum temperatures over most parts of East India during next 48 hours and fall by 3-5°C thereafter.
- No significant change in minimum temperatures over rest parts of the country during next 3-4 days.
- Cold Wave/Severe Cold Wave** conditions in isolated/some parts of Punjab during 30th December to 03rd January; north Rajasthan during 31st December to 03rd January and Haryana & Chandigarh during 31st December to 02nd January.
- Dense fog** in isolated pockets very likely over Punjab, Haryana and Uttar Pradesh in night/morning hours during next 2 days and over East India during next 3 days.

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



Impact expected and action suggested due to Thunderstorm, Lightning & Hail over Odisha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya during next 24 hours.

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.

Impact expected and action suggested due to Cold Wave/Severe Cold Wave conditions in isolated/some pockets over Punjab during 30th December to 03rd January, over north Rajasthan during 31st December to 03rd January and over Haryana & Chandigarh during 31st December to 02nd January.

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 (Wheat, Potato, Mustard and other Rabi crops), water supply, transport and power sector at some places.

Action suggested:

- Moisturize your skin regularly with oil/cream.
- 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.

Impact and action suggested due to low temperature and Ground Frost in Agriculture Sector

- Low temperature and ground frost have varying impacts on *rabi* crops. Following general measures are issued to prevent the impacts of low temperature and ground frost on crops.
- Application of light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold injury.
- Cover young fruit plants with sarkanda / straw / polythene sheets / gunny bags.
- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

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