



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

Press Release

Date: 03rd February, 2022

Time of Issue: 1215 hrs IST

Subject: (I) Wet Spell over Northwest, East & Northeast India on 03rd & 04th February, 2022.

(II) Isolated heavy rainfall/ snowfall over Western Himalayan Region and rainfall over Punjab, Haryana & Chandigarh on 03rd; over Bihar, Jharkhand, West Bengal & Sikkim, west Assam & Meghalaya and Arunachal Pradesh on 04th February, 2022.

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

- **Minimum temperatures** are above normal by 2-4°C over most parts of northwest, central & east India.
- **Cold day to Severe Cold Day conditions** prevailed in isolated pockets of northwest and East Uttar Pradesh.
- **Dense to Very Dense Fog** prevailed in isolated pockets over East Uttar Pradesh and Gangetic West Bengal and **dense Fog** in isolated pockets over north Coastal Odisha and Goa.

Weather Systems and associated forecast & warnings:

- The Western Disturbance lies as a cyclonic circulation over north Pakistan & neighbourhood between 3.1 to 5.8 km above mean sea level with the trough aloft in middle & upper tropospheric levels with its axis at 7.6 km above mean sea level roughly along Long. 71°E to the north of Lat. 25°N. An induced Low Pressure Area lies over northwest Rajasthan & neighbourhood and associated cyclonic circulation in lower tropospheric levels. **High moisture feeding from Arabian Sea and Bay of Bengal to northwest India at lower & middle tropospheric levels is very likely to continue during next 24 hours. Under its influence;**
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall very likely to continue over Western Himalayan Region on 03rd & 04th February. **Isolated hailstorm very likely over Himachal Pradesh on 03rd and over Uttarakhand on 03rd & 04th February, 2022.**
 - ✓ **Isolated heavy rainfall/snowfall also very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh on 03rd and over Uttarakhand on 03rd & 04th February, 2022.**
 - ✓ Fairly widespread to widespread light/moderate rainfall very likely over Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh on 03rd February and light isolated on

04th February. **Isolated heavy rainfall very likely over Punjab, Haryana & Chandigarh on 03rd February, 2022.**

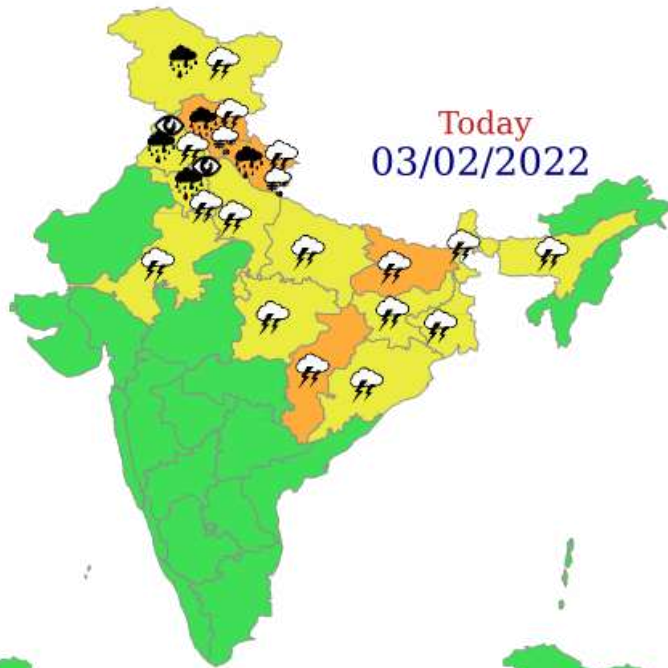
- **The WD and its induced Cyclonic Circulation/Low is very likely to move east-northeastwards during next two days, as a result there will be high moisture feeding from Bay of Bengal to East & adjoining northeast India on 03rd & 04th February, 2022 due to confluence between westerlies and southeasterlies from the Bay of Bengal at lower tropospheric levels. As a result;**
 - ✓ Fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning likely over Bihar & Jharkhand on 03rd & 04th and over West Bengal & Sikkim and Odisha on 04th **with possibility of isolated hailstorm over the region 04th February. Isolated heavy rainfall also likely over Bihar, Jharkhand and West Bengal & Sikkim on 04th February, 2022.**
 - ✓ Widespread light/moderate rainfall with thunderstorm/lightning likely over northeast India on 04th & 05th February, 2022. **Isolated heavy rainfall/snowfall likely over Arunachal Pradesh on 04th & 05th and heavy rainfall over west Assam & Meghalaya on 04th February, 2022. Isolated hailstorm** also likely over West Assam & Meghalaya on 03rd & 04th and over Arunachal Pradesh on 04th February, 2022.
- Under the influence of a fresh Western Disturbance; isolated to scattered rainfall/snowfall very likely over Western Himalayan Region on 06th & 07th February, 2022.

Cold Wave, Fog and Cold Day Warning:

- Fall in minimum temperatures by 2-4°C very likely over most parts of Northwest India during next 2 days and rise by 2-4°C thereafter.
- No significant change in minimum temperatures very likely over most parts of Central India during next 24 hours and fall by 3-5°C for subsequent 48 hours.
- No significant change in minimum temperatures very likely over most parts of East India during next 2 days and fall by 2-4°C thereafter.
- Fall in minimum temperatures by 3-5°C over Gujarat during next 2 days and rise by 2-4°C thereafter.
- Fall in minimum temperatures by 2-4°C over Maharashtra during next 2 days and rise by 2-4°C thereafter.
- **Dense Fog conditions** in isolated pockets in night/morning hours very likely over Punjab and Haryana, Chandigarh & Delhi on during next 2 days.

For more details refer:

https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



EXPECTED IMPACT & ACTION SUGGESTED due to isolated Heavy rainfall/snowfall over Himachal Pradesh, Punjab, Haryana, Chandigarh on 03rd and over Uttarakhand on 03rd & 04th February, 2022.

A. Impact Expected

- Localized Flooding of roads and water logging in low lying areas and closure of underpasses mainly in urban areas of the affected region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/Avalanches.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.
- Harvest the ripen crops & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.
- Do not visit Avalanche prone areas.
- Maintain proper ventilation at homes.

Impact expected and action suggested due to Thunderstorm, Lightning & Hail over Himachal Pradesh on 03rd; over Uttarakhand, Bihar, Assam & Meghalaya on 03rd & 04th; over Punjab, Haryana-Chandigarh & Uttar Pradesh on 03rd and over Jharkhand, West Bengal & Sikkim, Odisha and Arunachal Pradesh on 04th February, 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.)



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