



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 04th February, 2022

Time of Issue: 1330 hrs IST

Subject: (I) Wet Spell over Western Himalayan Region and East & Northeast India likely to continue during next 24 hours and significant reduction thereafter. Isolated heavy rainfall over east Bihar, West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh today, the 04th February, 2022.
(II) Dense to Very Dense Fog Conditions in isolated pockets over plains of northwest India during next 2-3 days.

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

- **Rainfall realised during past 24 hours ending at 0830 hrs IST of today (cm):(Refer Annexure I)**
- **Minimum temperatures** are near normal over most parts of northwest & West India and above normal by 2-4°C over most parts of east India.
- **Cold day to Severe Cold Day conditions** prevailed in many parts of Punjab and in isolated pockets over Haryana-Delhi and West Uttar Pradesh.
- **Dense to Very Dense Fog** in isolated pockets over Punjab, Uttarakhand & Haryana-Chandigarh; **Dense fog** in isolated pockets over Uttar Pradesh, north Rajasthan, Gujarat Region, Madhya Maharashtra and Assam & Meghalaya

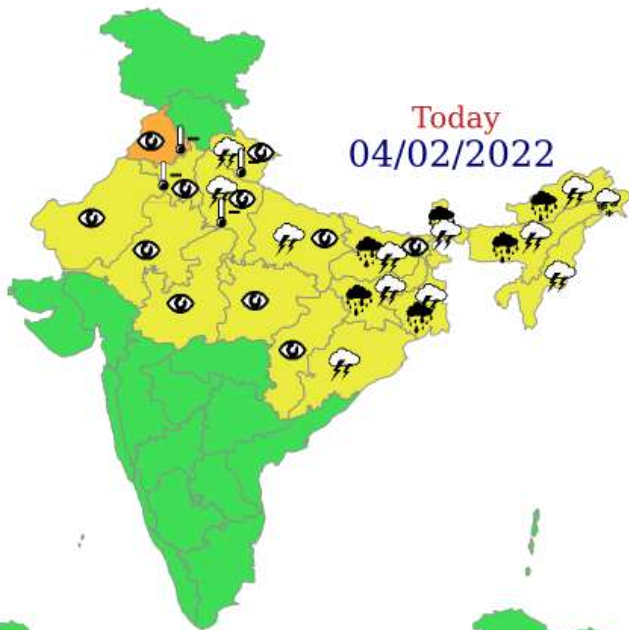
Weather Systems and associated forecast & warnings:

- The Western Disturbance lies as a cyclonic circulation over Jammu & neighbourhood between 3.1 to 4.5 km above mean sea level. The induced cyclonic circulation lies over north Haryana & neighbourhood in lower tropospheric levels. **It is very likely to move east-northeastwards away from northwest India by tomorrow, the 05th February, 2022. Under its influence;**
 - ✓ Widespread light/moderate rainfall/snowfall very likely over Himachal Pradesh & Uttarakhand and scattered rainfall/snowfall over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 04th February. **Isolated hailstorm very likely over Uttarakhand on 04th February, 2022.**
 - ✓ Isolated light rainfall very likely over northern parts of Punjab & Haryana-Chandigarh and scattered light/moderate rainfall very likely over north Uttar Pradesh on 04th February and **dry weather** thereafter.

- **A north-south trough runs from southwest Bihar to north Telangana in lower tropospheric levels with high moisture feeding from the Bay of Bengal to east & northeast India at lower tropospheric levels and is very likely to continue during next 12 hours. In addition, there is confluence between westerlies and southeasterlies from the Bay of Bengal over East India at lower tropospheric levels. As a result:**
 - ✓ Fairly widespread to widespread light/moderate **rainfall/snowfall** with thunderstorm/lightning & **hailstorm** very likely over Sub-Himalayan West Bengal & Sikkim on 04th & 05th; fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning & **hailstorm** very likely over Bihar, Jharkhand, Odisha & Gangetic West Bengal on 04th and significant reduction thereafter. **Isolated heavy rainfall is very likely over Jharkhand, Bihar and West Bengal & Sikkim during next 24 hours.**
 - ✓ Widespread light/moderate rainfall with thunderstorm/lightning very likely over northeast India on 04th & 05th February, 2022 and reduction thereafter to isolated rainfall. **Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh; heavy rainfall over Assam & Meghalaya and isolated hailstorm** likely over Assam & Meghalaya and Arunachal Pradesh on 04th February, 2022.
- Under the influence of a feeble Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Western Himalayan Region on 06th & 07th February, 2022.
- Under the influence of another Western Disturbance; scattered/fairly widespread light/moderate rainfall/snowfall very likely over Western Himalayan Region during 08th - 09th February and isolated light rainfall likely over northern parts of Punjab & Haryana-Chandigarh on 08th & 09th 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 24 hours and gradual rise by 4-5°C thereafter.
- Fall in minimum temperatures by 3-5°C very likely over most parts of Central India during next 2 days and gradual rise by 2-4°C thereafter.
- Fall in minimum temperatures by 3-5°C very likely over most parts of East India during next 2 days and gradual rise by 2-4°C thereafter.
- No significant change in minimum temperatures over Gujarat during next 24 hours 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.
- **Cold to Severe Cold Day Conditions** likely in isolated/some parts over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh during next 2 days.
- **Dense to Very Dense Fog Conditions** likely in isolated/some parts in night/morning hours over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, north Rajasthan and Uttar Pradesh during next 3 days.
- **For more details refer:**
https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



Rainfall realised (cm) during past 24 hours ending at 0830 hrs IST of today:

Himachal Pradesh: Chamba: Chawari-6, Saloni-5; **Sirmaur:** Nahan & Renuka-6 each; **Bilaspur:** Nainadevi-6; **Una:** Una-5; **Shimla:** Khadralla-5;

Punjab: Rupnagar: Anandpur Sahib-5, Nangal-4, Ropar-3; **Pathankot:** Phangota-4; **Kapurthala:** Kapurthala-3; **Gurdaspur:** Tibri-3;

Haryana-Chandigarh: Yamunanagar: Chhachhrauli, Tajewala & Dadupur-6 each, Radaur & Jagadhari-4 each, Sadhaura-3; **Kurukshetra:** Thanesar-5, Babain & Jhansa-4 each, Shahbad & Pehowa-3 each;

West Uttar Pradesh: Bareilly: Baheri-4; **Moradabad:** Thakurdwara-6; **Saharanpur:** Saharanpur-4;

East Uttar Pradesh: Kheri: Muhammadi-4; Maharajganj: Nichloul-3;

Jharkhand: Sahibganj: Rajmahal-8, Borio-6; **Dumka:** Messenjar & Moharo-6 each;

Bihar: West Champaran: Bagaha-5; **Rohtas:** Dinara-4; **Patna:** Patna Aerodome-4; **Bhagalpur:** Bhagalpur-4.

Gangetic West Bengal: Birbhum: Tantloi-6, Rampurht, Tilpara Barrage-3; **Burdwan:** Durgapur-3;

Sub-Himalayan West Bengal & Sikkim: Malda: Malda-6; **South Dinajpur:** Majhain-3.

EXPECTED IMPACT & ACTION SUGGESTED due to isolated Heavy rainfall/snowfall over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and isolated Heavy rainfall over Bihar, Gangetic West Bengal, Jharkhand, Assam & Meghalaya during next 24 hours.

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 Uttarakhand, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya and Arunachal Pradesh 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.

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