



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 02nd January, 2022
Time of Issue: 1300 hrs IST

Subject:

- I. Isolated heavy rainfall activity over south Tamilnadu during next 24 hours and decrease thereafter.**
- II. No Cold Wave Conditions likely over Northwest India during next 5-7 days (except Punjab, Haryana during next 24 hours).**
- III. Two consecutive active Western Disturbances along with their induced systems (03-06 January 2022 and 07-09 January 2022) with moisture incursion from Arabian Sea likely to affect Northwest & adjoining central India during next 7 days.**

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

- **Significant amount of Rainfall** (7 cm or more): **Tamilnadu:** Peravurani (Thanjavur)-22; Muthupet (Tiruvavur)-18; Tirumayam (Pudukottai)-13; Natham (Dindigul)-11; Manalmedu (Mayiladuthurai)-9; KM Koil (Cuddalore)-8; Jayamkondam (Ariyalur), Vedaranyam (Nagapattinam) and Perambalur (Perambalur)-7 each.
- Minimum temperatures are in the range of 2-6°C over Punjab, parts of north Rajasthan, Haryana, Delhi, West Uttar Pradesh and parts of north Madhya Pradesh during past 24-hours, no significant change has been observed over these areas.
- **Cold Wave conditions:** Cold wave to Severe Cold Wave conditions prevailed in some parts of Punjab and in isolated pockets over Haryana.
- **Fog** (at 0830 hours IST of today): **Dense to very dense fog** occurred in isolated pockets over East Uttar Pradesh and East Madhya Pradesh and **dense fog** occurred in isolated pockets over Odisha.

Forecast

- I. Isolated heavy rainfall activity over south Tamilnadu during next 24 hours and decrease thereafter.**
 - Under the influence of a cyclonic circulation over southwest Bay of Bengal off south Sri Lanka coast at middle tropospheric levels, scattered rainfall with isolated **heavy rainfall** activity is very likely to continue over south Tamilnadu during next 24 hours and decrease thereafter.
- II. Minimum Temperatures, Cold Wave and Fog:**
 - i) No significant change in minimum temperatures very likely over Northwest India during next 24 hours and gradual rise by 3-5°C for subsequent 3-4 days. Hence, the minimum Temperatures will be above normal to appreciably above normal from 04th January.
 - ii) No significant change in minimum temperatures very likely over Gujarat, Maharashtra & Central India during next 2 days and gradual rise by 2-3°C thereafter.
 - iii) No significant change in minimum temperatures very likely over East India during next 4-5 days (except Odisha where fall by 2-3°C is expected during next 2 days).

- iv) **Cold Wave** conditions in isolated pockets very likely over Punjab & Haryana during next 24 hours and abate thereafter. Cold wave conditions also likely over Odisha on 03rd & 04th January.
- v) **Cold Day** conditions in isolated pockets very likely over East Madhya Pradesh during next 24 hours and abate thereafter.
- vi) **Dense to very dense fog** in isolated pockets in night/morning hours very likely over East Uttar Pradesh and **dense fog** in isolated pockets very likely over plains of Uttarakhand, northwest Uttar Pradesh, northwest Madhya Pradesh and Assam & Meghalaya during next 2 days.

III. **Two consecutive active Western Disturbances and their induced systems (03-06 Jan 2022 and 07-09 Jan 2022) with moisture incursion from Arabian Sea likely to affect Northwest & adjoining central India during next 7 days**

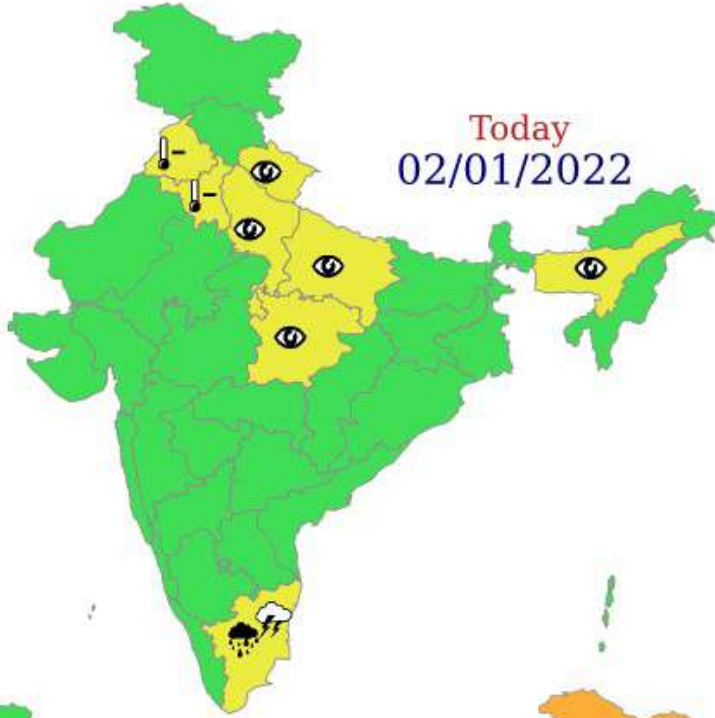
- A fresh active Western Disturbance & its associated induced cyclonic circulation very likely to affect Northwest Indian from 03rd January 2022. Under its influence
 - i) Fairly widespread to widespread rainfall/snowfall during 03rd to 07th with **possibility of isolated heavy falls** over Jammu & Kashmir on 04th & 05th January, 2022 and over Himachal Pradesh & Uttarakhand on 05th January, 2022. **Isolated Hailstorms** are also likely over Jammu & Kashmir on 04th & 05th January and over Himachal Pradesh & Uttarakhand on 05th January, 2022
 - ii) Scattered to fairly widespread Light/moderate rainfall is likely over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan & West Uttar Pradesh during 05th to 07th and light isolated rainfall is also likely over west Madhya Pradesh on 05th January, 2022. **Isolated Thunderstorms activity is likely over Punjab, Haryana, West Uttar Pradesh & Rajasthan, accompanied with Hailstorms** over Punjab, Haryana and Rajasthan on 05th January, 2022.

b. Outlook & advisory till 09th January:

Under the influence of Another active Western Disturbance and its induced system during 07-09 January, rainfall/snowfall activity likely increase over **Western Himalayan Region during 07-09 January (with possibility of isolated heavy falls on 8th January)** and scattered to fairly widespread light to moderate rainfall/Thunderstorm over plains of northwest and adjoining central India during 07-09 January, 2022 with isolated heavy rains & hailstorm likely over Rajasthan and adjoining areas of West Madhya Pradesh on 08th and over Punjab, Haryana, Uttar Pradesh and Madhya Pradesh on 09th January .

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

Today
02/01/2022



Tomorrow
03/01/2022



04/01/2022



05/01/2022



06/01/2022



EXPECTED IMPACT & ACTION SUGGESTED due to Isolated Heavy Rainfall/snowfall over Jammu & Kashmir on 04th & 05th January, 2022 and over Himachal Pradesh & Uttarakhand on 05th January, 2022.

A. Impact Expected

- Localized Flooding of roads, inundation 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
- 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 like Paddy & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.

Impact expected and action suggested due to Dense to very dense Fog in the night/morning hours in few pockets over East Uttar Pradesh and dense fog in isolated pockets over the plains of Uttarakhand, northwest Uttar Pradesh, East Madhya Pradesh and parts of northeast India during next 2 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