



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 1st January, 2022

Time of Issue: 1330 hrs IST

Subject:

- I. **Isolated heavy to very heavy rainfall activity over coastal Tamilnadu, Puducherry & Karaikal during next 24 hours and decrease thereafter.**
- II. **Cold Wave Conditions over Northwest India during next 24 hours and abate thereafter.**
- III. **A fresh spell of light to moderate rainfall/snowfall activity over Western Himalayan Region during 03rd to 07th (with possibility of isolated heavy falls on 04th & 05th) and light to moderate rainfall over the plains of northwest India during 04th to 07th January, 2022.**

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

- **Significant amount of Rainfall** (7 cm or more): **Tamilnadu:** Tiruvallur (Cholavaram and Red hills)-10; Nagapattinam (Vedaranyam)-9; Cuddalore (Chidambaram and KM Koil), Chennai (Perambur) and Kancheepuram-7 each
- Minimum temperatures are in the range of 2-6°C over Punjab, north Rajasthan, Haryana and adjoining West UP. During last 24-hours, no significant change has been observed over these areas.
- **Cold Wave conditions: Cold wave to Severe Cold Wave conditions** prevailed in isolated pockets over Punjab, Haryana and northeast Rajasthan and **Cold Wave conditions** in isolated pockets over Himachal Pradesh, East Uttar Pradesh and northwest Rajasthan.
- **Cold Day conditions: Cold day to Severe Cold day conditions** prevailed in isolated pockets over Punjab and Madhya Pradesh.
- **Fog** (at 0830 hours IST of today): **Dense to very dense fog** occurred in isolated pockets over Punjab, Haryana, West Madhya Pradesh and East Rajasthan and **Moderate fog** in isolated pockets over West Uttar Pradesh and East Madhya Pradesh.
- **Visibility** (at 0830 hours IST of today): Ambala and Datia-25m each; Patiala, Barabanki and Bahraich-50m each and Karnal, Aligarh, Sultanpur, Varanasi, Jhansi, Damoh, Tikamgarh and Supaul-200m each.

Forecast

- I. **Isolated heavy to very heavy rainfall activity over coastal Tamilnadu, Puducherry & Karaikal during next 24 hours and decrease thereafter.**
 - Strong northeasterly winds are prevailing off the coast of Tamilnadu & Puducherry in the lower levels. A cyclonic circulation lies over southwest Bay of Bengal off south Sri Lanka coast at middle tropospheric levels.
 - Under their influence, scattered to fairly widespread rainfall with isolated **heavy to very heavy rainfall** activity is very likely to continue over coastal Tamilnadu, Puducherry & Karaikal during next 24 hours; isolated **heavy rainfall** over the same region during subsequent 24 hours and decrease thereafter.

II. Minimum Temperatures, Cold Wave and Fog:

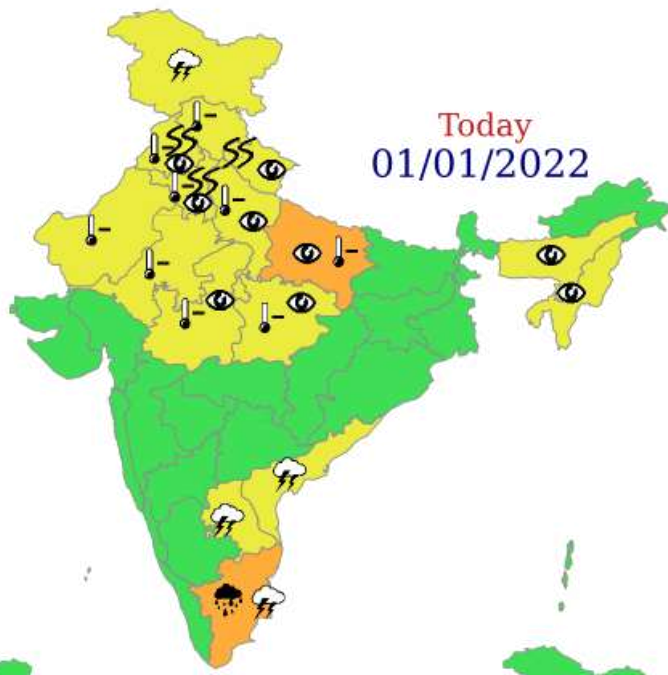
- i) No significant change in minimum temperatures over Northwest India very likely during next 24 hours and gradual rise by 3-5°C during subsequent 3 days. Hence, the minimum Temperatures will be above normal to appreciably above normal from 4th January.
- ii) No significant change in minimum temperatures over Gujarat and Central India very likely during next 24 hours and gradual rise by 2-4°C thereafter in subsequent 4 days.
- iii) Gradual fall in minimum temperatures by 2-4°C over East India during next 3 days and No significant change during subsequent 2 days.
- iv) **Cold Wave** conditions in isolated pockets very likely over Himachal Pradesh, Punjab, Haryana, Uttar Pradesh and north Rajasthan during next 24 hours and abate thereafter. Cold wave conditions also likely over Odisha on 03rd & 4th January.
- v) **Cold Day** conditions in isolated pockets very likely over Madhya Pradesh during next 24 hours and abate thereafter.
- vi) **Dense to very dense fog** in few pockets in night/morning hours very likely over East Uttar Pradesh during next 2 days and **dense fog** in isolated pockets very likely over plains of Uttarakhand, Punjab, Haryana, west Uttar Pradesh, Madhya Pradesh and parts of northeast India during late night of today & tomorrow morning

III. A fresh spell of light to moderate rainfall/snowfall activity over Western Himalayan Region during 03rd to 07th (with possibility of isolated heavy falls on 04th & 05th) and light to moderate rainfall over plains of northwest India during 04th to 07th January, 2022.

A fresh active Western Disturbance and its associated induced cyclonic circulation is likely to affect Northwest Indian region from 03rd January 2022. Under its influence

- a. 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
- b. 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 & Rajasthan, accompanied with Hailstorms** over Punjab on 05th January, 2022.

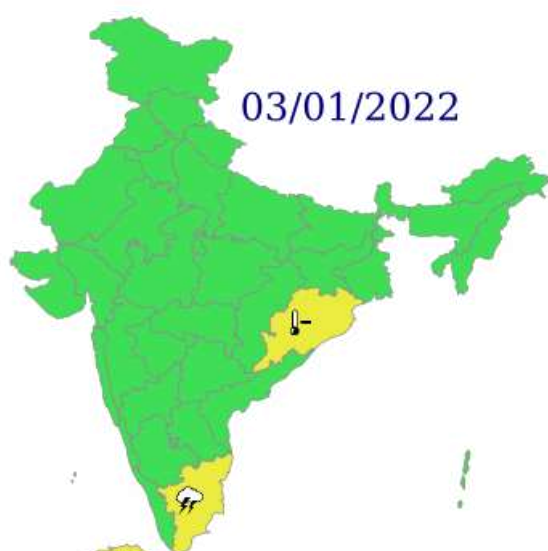
For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



Today
01/01/2022



Tomorrow
02/01/2022



03/01/2022



04/01/2022



05/01/2022

EXPECTED IMPACT & ACTION SUGGESTED due to Isolated Very Heavy Rainfall over coastal Tamilnadu, Puducherry & Karaikal during next 24 hours.

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 Cold Wave conditions in isolated pockets Himachal Pradesh, Punjab, Haryana, Uttar Pradesh and north Rajasthan during next 24 hours.

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.
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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.

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

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)



Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

