Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release (Updated)
Date: 30th December, 2021
Time of Issue: 2000 hrs IST

Subject:

I. **Cold Wave to Severe Cold Wave Conditions over Northwest India & Madhya Pradesh during next 3-4 days.**

II. **Isolated Heavy to very rainfall activity likely to continue over North coastal Tamilnadu and adjoining areas of south coastal Andhra Pradesh during next 3 days and decrease thereafter.**

III. **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.**

Weather Observed during the period 0830 IST to 1815 IST of 30.12.21:

- **Significant amount of Rainfall** (in mm): MRC Nagar (Chennai) – 176.5; Chennai Nungambakkam AWS – 146.5; Meenambakkam ISRO AWS – 102.0; Anna University – 81.0; Tirur KVK (Tiruvallur district) –41.5; YMCA Nandanam – 109.0; Satyabhama University – 43.0 and ACS Medical college (Kanchipuram district) – 94.0

I. **Minimum Temperatures, Cold Wave and Fog:** Cold Wave to Severe Cold Wave Conditions over Northwest India & Madhya Pradesh during next 3-4 days

i) Minimum temperatures are in the range of 2-6°C over Punjab, north Rajasthan, Haryana and adjoining West UP and **3 to 5°C fall in Minimum Temperatures** occurred **over Haryana, north Rajasthan, UP and MP during past 24 hours.** old Wave to Severe Cold Wave Conditions over Northwest India & Madhya Pradesh during next 3-4 days.
ii) No significant change in minimum temperatures over Northwest India during next 3 days and gradual rise by 2-4°C during subsequent 3 days.
iii) Fall in minimum temperatures by 2-4°C over Central India during next 3 days and rise by 2-3°C during subsequent 2 days.
iv) Fall in minimum temperatures by 3-5°C over East India during next 3 days and no significant change thereafter.
v) No significant change in minimum temperatures over rest parts of the country during next 5 days.
vi) **Cold Wave/Severe Cold Wave** conditions in some/many parts of Punjab during 31st December to 03rd January and in isolated/some parts over Haryana, Chandigarh & Delhi and Rajasthan during 31st December to 03rd January; over Madhya Pradesh during 31st December to 02nd January and over Uttar Pradesh during next 3 days.
vii) **Dense fog** in isolated pockets in night/morning hours very likely over Uttar Pradesh during next 5 days and over East & Northeast India during next 2-3 days.

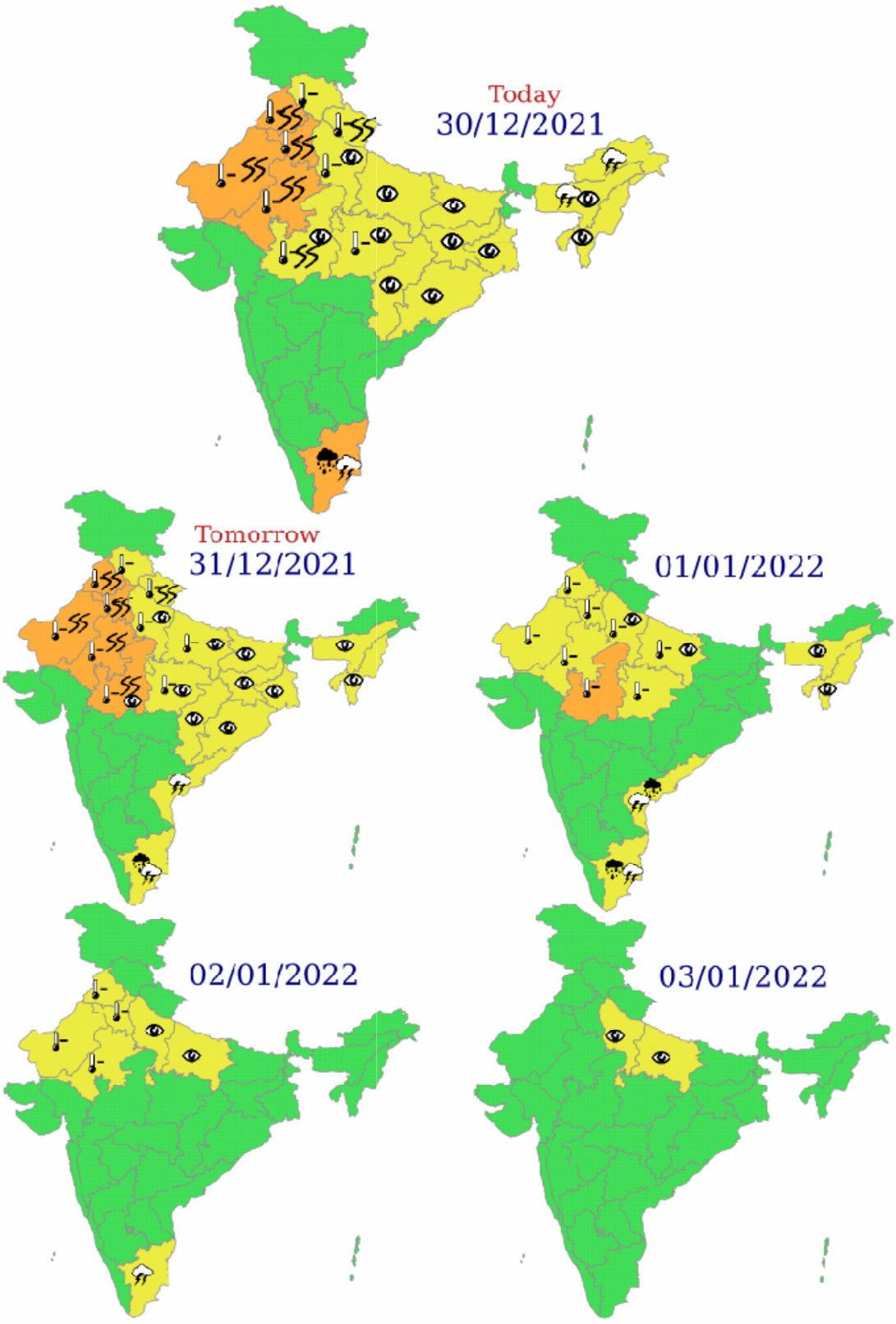
II. Isolated Heavy to very rainfall activity likely to continue over North coastal Tamilnadu and adjoining areas of south coastal Andhra Pradesh during next 3 days and decrease thereafter.

- ✓ Increased rainfall activity over South-east peninsular India during next 3 days and decrease thereafter. Scattered to fairly widespread rainfall very likely over Tamilnadu, Puducherry & Karaikal and adjoining south Andhra Pradesh during next 3 days. **Isolated Heavy to very Heavy Rainfall** over north coastal Tamilnadu on 30th and **Isolated Heavy Rainfall** over coastal Tamilnadu, Puducherry & Karaikal 31st December, 2021 & 01st January, 2022 and over south Coastal Andhra Pradesh during 30th December to 01st January, 2022.

III. 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:

a. Isolated to scattered rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 01st to 03rd January, 2022.
b. 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**.
c. 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.

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


Today
30/12/2021
Tomorrow
31/12/2021
01/01/2022
02/01/2022
03/01/2022

Impact expected and action suggested due to Cold Wave/Severe Cold Wave conditions in some/many parts of Punjab during 31st December to 03rd January and in isolated/some parts over Haryana, Chandigarh & Delhi and Rajasthan during 31st December to 03rd January; over Madhya Pradesh during 31st December to 02nd January and over Uttar Pradesh during next 3 days.

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.

EXPECTED IMPACT & ACTION SUGGESTED due to Heavy / Very Heavy Rainfall over north Tamilnadu and south Coastal Andhra Pradesh during 30th December to 01st January.

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.

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 Widespred (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