



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 26th December, 2022

Time of Issue: 1245 hours IST

**Subject: (i) Decrease in intensity & spread of Dense to Very Dense Fog conditions over northwest India from night of 27th/28th Morning December onwards.
(ii) Cold Day conditions likely to abate over northwest India after 48 hours.**

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

- ❖ **Minimum temperatures** are in the range of 3-7°C over many parts of Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Uttar Pradesh & adjoining northwest Madhya Pradesh.
- ❖ Today morning, **Dense to Very Dense fog** observed in isolated pockets over West Rajasthan, Punjab, West Uttar Pradesh and Uttarakhand; **Dense fog** in many pockets over Haryana Chandigarh & Delhi; in isolated pockets over Jammu & Kashmir and Assam & Meghalaya and Odisha.
- ❖ Yesterday, **Cold day conditions** at most places with isolated **severe cold day conditions** reported over Haryana, Chandigarh & Delhi; **severe cold day conditions** reported at most places over Punjab; **cold day to severe cold day** at isolated places over Jammu Division, northwest Rajasthan and west Uttar Pradesh.
- ❖ Today, **cold wave to severe cold wave conditions** prevailed at a few places over West Rajasthan; at isolated pockets over East Rajasthan and Haryana and **cold wave conditions** prevailed at isolated pockets over Himachal Pradesh, Punjab and Delhi.

Minimum Temperature Forecast, Cold Wave/Cold Day & Fog Warnings (Annexure I & II):

Fog Warning

- ❖ **Due to prevailing light wind and high moisture in lower tropospheric levels, Dense to Very Dense Fog** very likely to continue over some parts of Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Rajasthan during next 48 hours; and over East Rajasthan and west Uttar Pradesh during next 24 hours.
- ❖ Its intensity & spread likely to reduce thereafter. However, **Dense Fog** in isolated pockets likely to continue over Punjab during subsequent 3 days.

Minimum Temperature Forecast & Cold Wave/Cold Day Warning

- ❖ No significant change in minimum temperatures very likely over many parts of plains of Northwest India during next 24 hours and gradual rise by about 2°C thereafter. No significant change in minimum temperature very likely over many parts of East India and fall by 2-4°C thereafter. No significant change in minimum temperature over rest parts of the country.
- ❖ **Cold Wave/Severe Cold Wave Conditions** very likely in some/isolated pockets over north Rajasthan during next 3 days. **Cold Wave Conditions** in isolated pockets over Punjab, Haryana-Chandigarh-Delhi during next 3 days and over Himachal Pradesh during

next 2 days. **Cold Wave Conditions** very likely in isolated pockets over Saurashtra & Kutch during next 24 hours.

- ❖ **Cold Day/Severe Cold Day Conditions** very likely in some parts over Punjab, Haryana, Chandigarh, Delhi and West Rajasthan and cold day conditions in isolated pockets over Uttarakhand on 26th and 27th December 2022

Weather systems and forecast & warning:

- ❖ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Longitude 56°E to the north of Latitude 32°N. Under its influence:
 - Isolated to scattered light rainfall/snowfall likely over Western Himalayan Region on 29th & 30th December.

Low Pressure Area over Comorin area & neighbourhood:

- Yesterdays **Depression** over Southwest Bay of Bengal & adjoining Sri Lanka coast moved west-southwestwards, crossed Sri Lanka coast to the south of Trincomalee near latitude 8.35°N and longitude 81.4°E as a Depression with maximum sustained wind speed of 45-55 kmph gusting to 65 kmph during 1230 to 1330 hrs IST of yesterday. Thereafter, it continued to move west-southwestwards and weakened into a well marked low pressure area over Sri Lanka at 1430 hrs IST of yesterday and the Well Marked Low Pressure area weakened into a Low Pressure area over Comorin area & neighbourhood today morning. It is likely to move west-northwestwards towards Southeast Arabian Sea.

Warnings:

(i) Rainfall warning (refer Annexure II):

- ❖ Light to moderate rainfall at many places Lakshadweep area and at a few places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 26th & 27th December 2022 and gradual reduction in rainfall activity over the region.
- ❖ Isolated heavy rainfall with thunderstorm & lightning is likely over south Kerala and south Tamil Nadu on 26th December 2022.

(ii) Wind warning (refer Annexure III):

- ❖ **Squally weather speed reaching 40-50 kmph gusting to 60 kmph** is likely to prevail over along & off south Tamil Nadu coast on 26th and over Comorin Area, Lakshadweep area and along & off Kerala Coast on 26th & 27th December 2022.

(iii) Fishermen Warning (refer Annexure III):

Fishermen are advised not to venture into;

- ❖ Along & off south Tamil Nadu coast on 26th December.
- ❖ Comorin Area, Lakshadweep area and along & off Kerala Coast on 26th & 27th December 2022.

For more details kindly refer:

https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Impact expected and action suggested due to Dense/Very Dense fog in the night/morning hours isolated/some parts over north Rajasthan, West Uttar Pradesh Punjab, Haryana, Chandigarh, Uttarakhand and coastal Odisha 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.

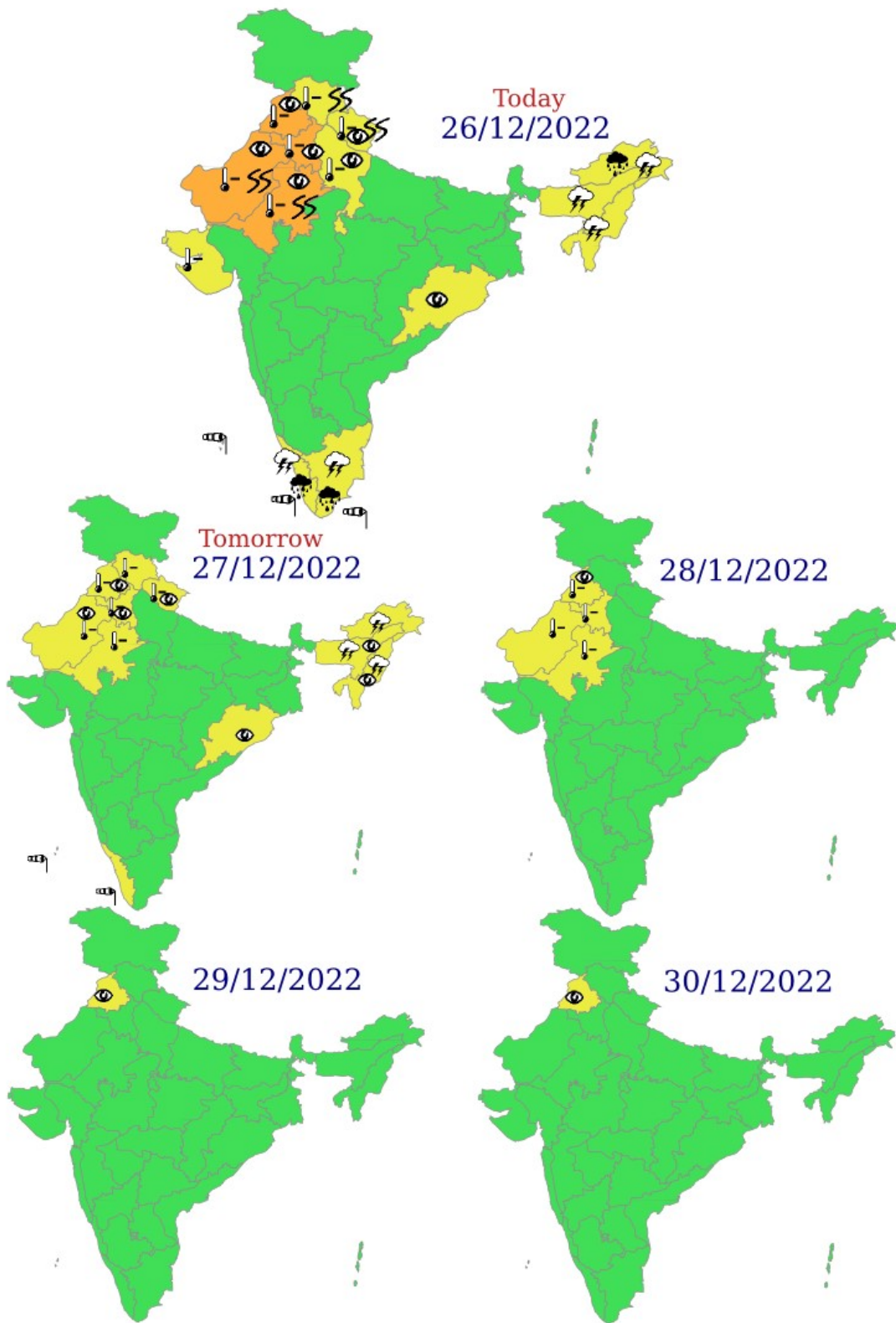
Impact expected and action suggested due to Cold Day/Severe Cold day conditions in isolated/some parts over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi and northwest Rajasthan during next 2 days and over West Uttar Pradesh during next 24 hours.

Impact expected:

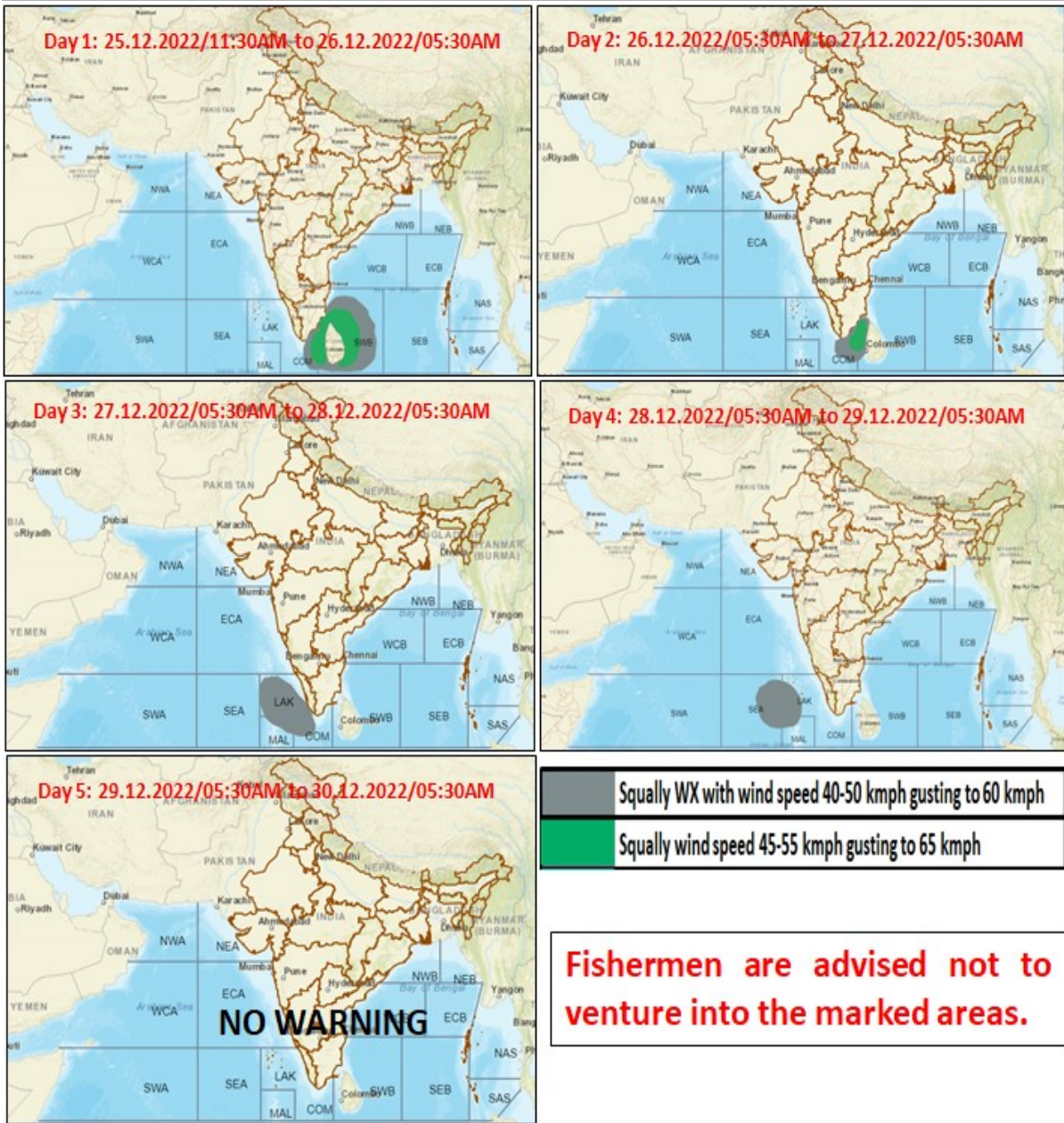
- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure 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, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- Wear several layers of loose fitting, light weight; warm woolen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woolen clothing rather than one layer of heavy cloth.
- 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.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather. (For details kindly refer NDMA guidelines: <https://ndma.gov.in/Resources/awareness/Cold Wave>)



Fishermen warning graphics



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:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and 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)

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

