



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 29th December, 2022
Time of Issue: 1300 hours IST**

Subject: A fresh spell of dense to very dense fog conditions likely to commence over plains of northwest India from 31st December, 2022 and cold wave conditions from 02nd January, 2023.

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

- ❖ Due to rise in minimum & maximum temperatures by 3-5°C, cold wave, cold day & dense fog conditions have abated from Punjab, Haryana, Delhi and Rajasthan.
- ❖ **Minimum temperatures** are in the range of 7-10°C over many parts of Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh and Madhya Pradesh.
- ❖ Today morning, **Very Dense Fog** observed in isolated pockets over East Uttar Pradesh and **Dense Fog** in isolated pockets over West Uttar Pradesh, Bihar and Assam.

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

Fog Warning

- ❖ **Dense fog** very likely in isolated pockets over Punjab, Haryana, Bihar during next 24 hours and **Dense to very dense fog** in isolated pockets over Punjab and Haryana & Chandigarh during subsequent 3-4 days.
- ❖ **Dense fog** very likely in isolated pockets over Uttar Pradesh during 30th December-03rd January and over north Rajasthan during 31st December-03rd January.
- ❖ **Dense Fog** very likely in isolated pockets over Arunachal Pradesh during next 24 hours and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days.

Minimum Temperature Forecast & Cold Wave/Cold Day Warning

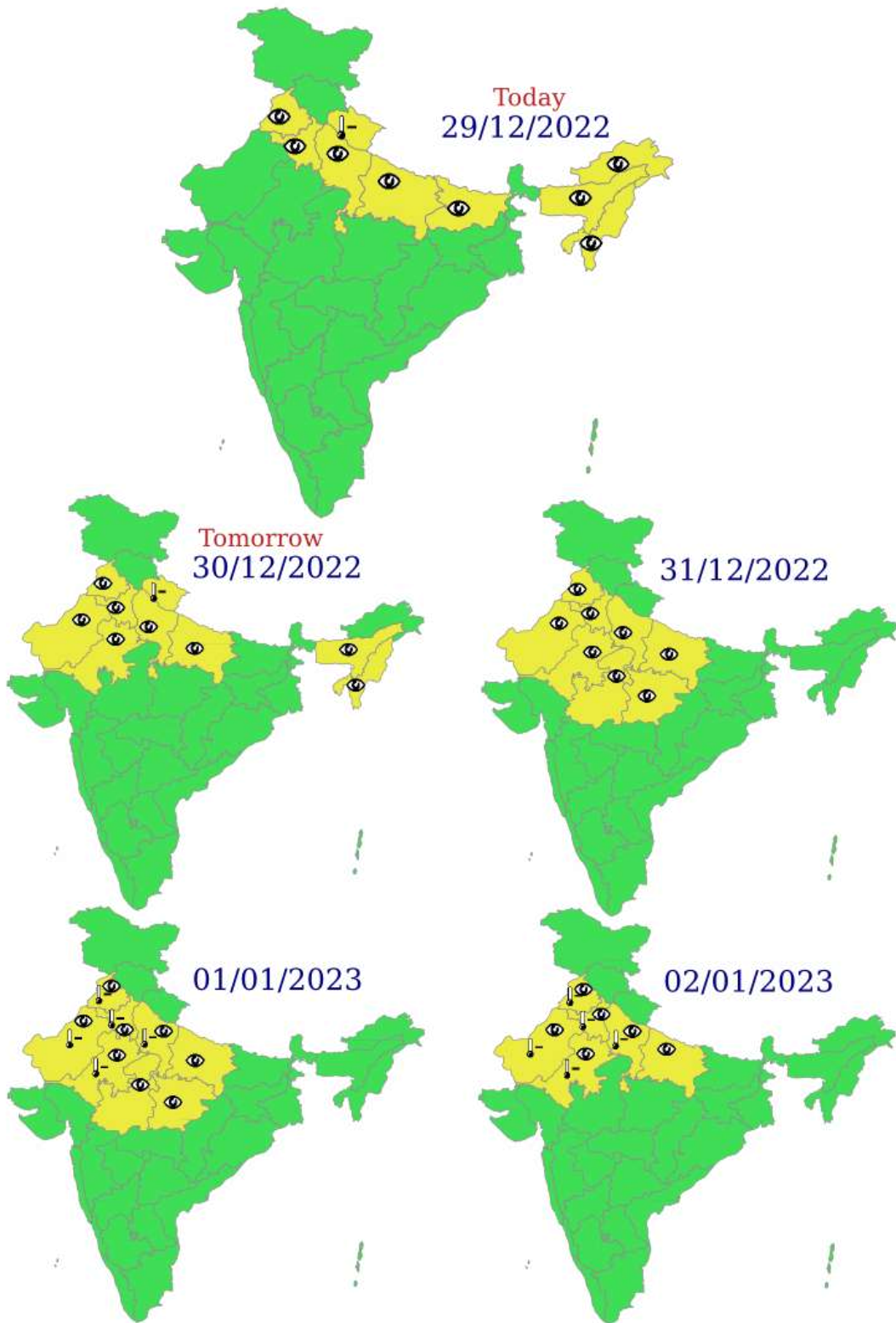
- ❖ Rise in minimum temperatures by 2-3°C very likely over plains of Northwest India during next 24 hours and gradual fall by 3-5°C during subsequent 2 days. Due to this;
 - **Cold Wave & Cold Day Conditions** very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and north Rajasthan on 02nd & 03rd January, 2023.
- ❖ No significant change in minimum temperatures likely over many parts of East India during next 2 days and rise by 2-3°C thereafter. No significant change in minimum temperatures likely over Madhya Pradesh during next 2 days and fall by 2-3°C thereafter.
- ❖ **Cold Day Conditions** very likely in isolated pockets over Uttarakhand on 29th & 30th December.

Weather systems and forecast & warning:

- ❖ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Longitude 58°E to the north of Latitude 30°N. An induced cyclonic circulation lies over north Pakistan & neighbourhood in lower tropospheric levels. Under their influence;
 - Scattered to fairly widespread light rainfall/snowfall likely over Western Himalayan Region on 29th & 30th December.
 - Isolated light rainfall likely over Punjab, north Haryana and northwest Rajasthan on 29th December, 2022.

For more details kindly refer:

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



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

 Heavy Rain	 Heavy Snow	 Thunderstorm	 Dust Storm
 Strong Winds	 Visibility	 Cyclone	 Squall/ Hail
 Frost	 Cold Wave	 Heat Wave	 Sea State