



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 28th December, 2022
Time of Issue: 1245 hours IST

Subject: (i) Reduction in Dense Fog & cold day conditions over northwest India during next 48 hours.
(ii) A fresh spell of dense fog and cold wave likely to commence over northwest India from 31st December, 2022.

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, Uttar Pradesh & adjoining north Madhya Pradesh. The **lowest minimum temperature of 0.6°C** reported at **Churu (West Rajasthan)**.
- ❖ Today morning, **Dense to very dense fog** observed in most pockets over Punjab; in many pockets over Haryana; in isolated pockets over Uttar Pradesh and **Dense fog** in isolated pockets over Uttarakhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Bihar and Tripura.
- ❖ Yesterday, **Cold day to severe cold day conditions** prevailed in isolated pockets over Haryana and Uttar Pradesh and **Cold day conditions** prevailed in isolated pockets over Punjab and Delhi.
- ❖ Today, **cold wave conditions** prevailed in many pockets over Punjab; in isolated pockets over Himachal Pradesh, south Haryana and northwest Rajasthan.

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

Fog Warning

- ❖ **Dense to Very Dense Fog** in isolated pockets over Uttarakhand and **Dense fog** in isolated pockets over Punjab and Bihar during next 48 hours and over north Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim during next 24 hours. Dense to very dense fog over Punjab and dense fog over Haryana, Chandigarh & Delhi, Uttar Pradesh and north Rajasthan during 30th December-01st January.
- ❖ **Dense Fog** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 29th-30th December.

Minimum Temperature Forecast & Cold Wave/Cold Day Warning

- ❖ Gradual rise in minimum temperatures by 2-3°C likely over plains of Northwest India during next 2 days and fall by 2-3°C thereafter. Fall in minimum temperatures by 3-5°C 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 and West India during next 3 days and fall by 2-3°C thereafter.
- ❖ **Cold Wave Conditions** very likely in isolated pockets over Punjab on 29th December. **Cold Wave Conditions** in isolated pockets over Punjab, Haryana-Chandigarh-Delhi and north Rajasthan on 01st & 02nd January, 2023.
- ❖ **Cold Day Conditions** very likely in isolated pockets over Punjab on 28th Dec, 31st Dec & 01st Jan; over Haryana, Chandigarh, Delhi on 31st Dec & 01st Jan.

Weather systems and forecast & warning:

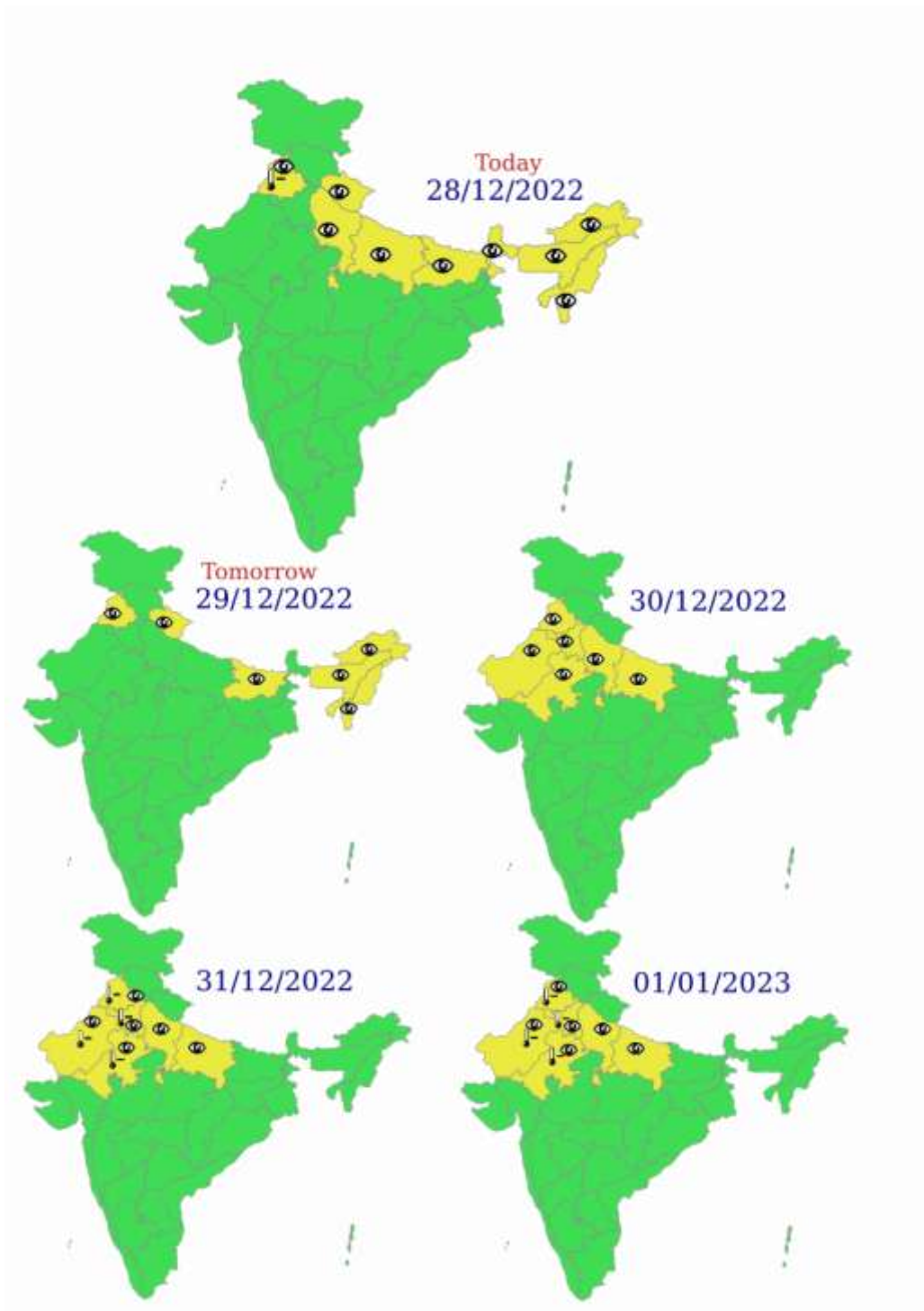
- A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Longitude 53°E to the north of Latitude 26°N. Under its influence, isolated to scattered light rainfall/snowfall likely over Western Himalayan Region on 29th & 30th December, 2022.

- A northsouth trough at 1.5 km above mean sea level runs roughly along Longitude 86°E to the north of Latitude 23°N. Under its influence, Isolated to scattered light rainfall/snowfall likely over Northeast India during next 24 hours.

For more details kindly refer:

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

Annexure I



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