



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

**Press Release
Date: 12th January, 2023
Time of Issue: 1330 hours IST**

**Subject: i) The Northeast Monsoon rains have ceased over south peninsular India from today, the 12th January, 2023.
ii) Scattered to fairly widespread rainfall/snowfall over Western Himalayan Region and isolated rainfall over adjoining plains during 12th to 13th January, 2023.
iii) A fresh spell of dense to very dense fog and isolated cold wave conditions very likely over northwest India from 15th January, 2023.**

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

- ❖ **Rainfall/Snowfall observed:** light to moderate rainfall/snowfall at most places over Jammu & Kashmir, Ladakh and at a few places over Himachal Pradesh.
- ❖ **The minimum temperatures** are in the range of 4-6°C over some parts of north Rajasthan; in the range 6-8°C many parts of Haryana; some parts of East Madhya Pradesh, East Uttar Pradesh, Delhi and they are in the range of 8-11°C over remaining parts of northwest India. **The Lowest Minimum Temperature of 3.6°C observed over Gorakhpur (East Uttar Pradesh).**
- ❖ **Minimum Temperatures** has risen by 3-4°C over some parts of Rajasthan; by 2-3°C over some parts of west Madhya Pradesh; by 1-2°C over remaining parts of Rajasthan, many parts of Delhi, Uttar Pradesh & East Madhya Pradesh and over some parts of Punjab & Haryana.
- ❖ **Dense to very dense fog** in many parts of Uttar Pradesh, Bihar and in isolated pockets over Sub-Himalayan West Bengal & Sikkim; Dense fog in isolated pockets over west Assam, Jammu division, Punjab, northwest Rajasthan, Odisha and Chandigarh.
- ❖ **Cold Day to Severe Cold Day conditions** prevailed in some parts of Uttar Pradesh, Bihar and in isolated pockets over Chandigarh. **Cold Day conditions** prevailed in isolated pockets over of Uttarakhand and Punjab.
- ❖ **Cold wave conditions** observed in isolated pockets over Interior Karnataka.

Weather Forecast and Warnings (Annexure I):

- **The Northeast Monsoon rains have ceased over Kerala-Mahe, South Interior Karnataka, Tamilnadu-Puducherry-Karaikal, Rayalaseema and adjoining areas of Coastal Andhra Pradesh & Yanam from today, the 12th January, 2023.**

Weather Systems and associated rainfall/snowfall

- A Western Disturbance as a trough in middle tropospheric westerly winds runs along Long. 68°E to the north of 28°N and an induced cyclonic circulation lies over north Rajasthan in lower tropospheric levels. Jet stream winds of order upto 120 knots in upper tropospheric levels (12-14 Km above mean sea level) prevailing along latitude 30° N over Indian region.

- These systems are very likely to cause light/moderate scattered/fairly widespread rainfall/snowfall over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh and Isolated rainfall/snowfall over Uttarakhand on 12th & 13th January, 2023.
- Isolated light rainfall likely over Punjab, Haryana and adjoining area of west Uttar Pradesh on 12th & 13th January, 2023.

Minimum Temperature Forecast & Cold Wave Warning:

- ❖ No significant change in minimum temperatures very likely over many parts of Northwest India and adjoining central India during next 48 hours and fall by 3-5°C from 14th January, 2023. No significant change in minimum temperatures very likely over many parts of East India during next 3 days and fall by 2-3°C from 15th January, 2023. Gradual fall in minimum temperatures by 3-6°C very likely over Gujarat state till 15th and no significant change thereafter. No significant change in minimum temperatures over the rest parts of country during next 4-5 days.
- ❖ **Cold Wave to severe cold wave conditions** likely over some parts of North Rajasthan and **Cold wave condition** in isolated pockets likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana & Chandigarh on 15th, 16th & 17th; over Interior Karnataka on 13th & 14th and over Madhya Pradesh on 16th & 17th January, 2023.

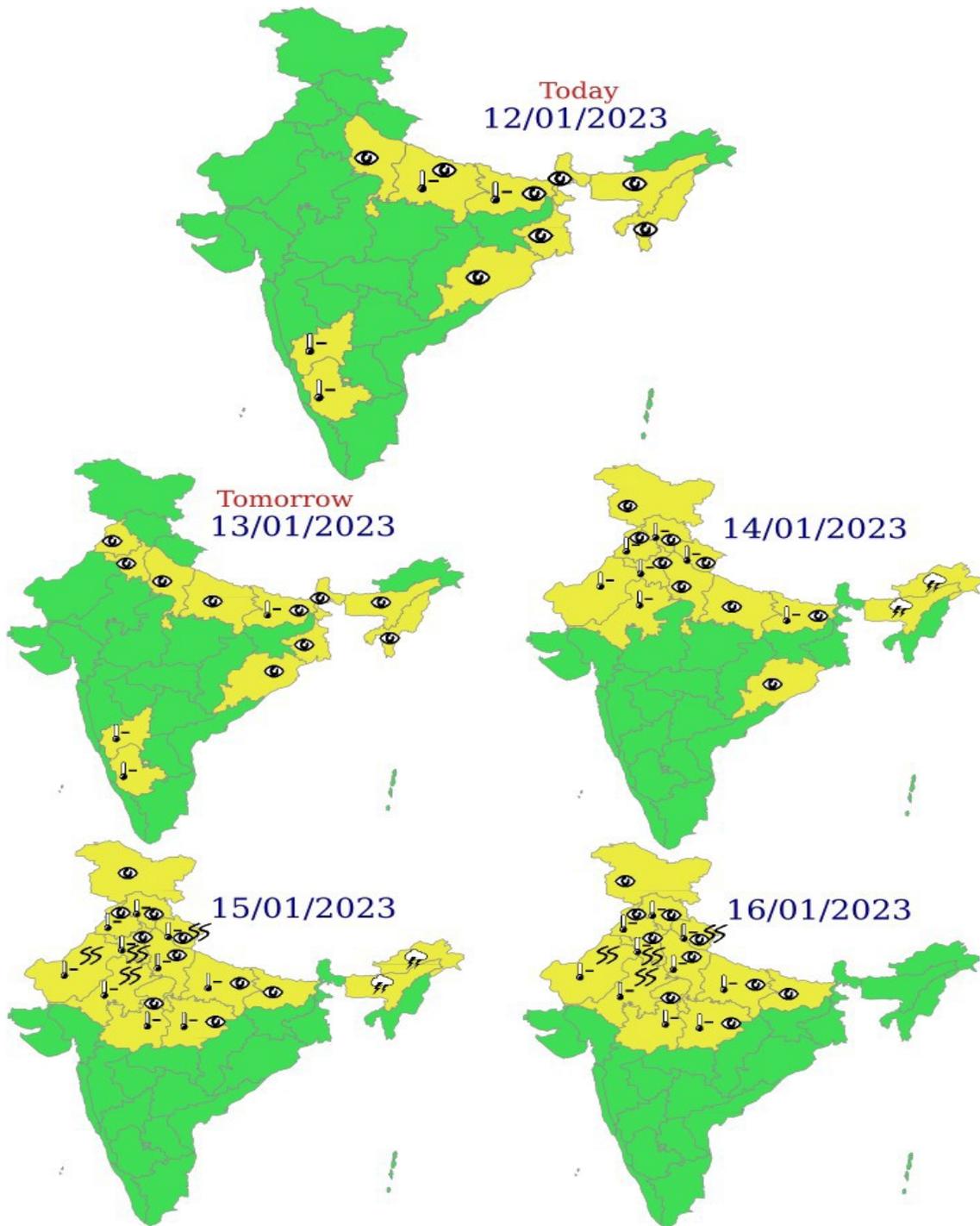
Fog and Cold Day Warning:

- ❖ Due to continuation of prevailing light winds and high moisture near surface over Indo-Gangetic plains, **dense to very dense fog** very likely to continue in isolated/some parts during night & morning hours over Bihar during 13th-17th and **Dense fog** very likely in isolated pockets during night & morning hours over Uttar Pradesh, West Bengal & Sikkim, Odisha, Assam & Meghalaya and Tripura during 13th -14th January 2023.
- ❖ **A fresh spell of dense to very dense fog** very likely in isolated/some pockets during night & morning hours over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh during 14th to 17th; Dense Fog very likely in isolated pockets over Jammu division, Himachal Pradesh, Uttarakhand during 15th to 17th and over North Madhya Pradesh during 16th to 17th January, 2023.
- ❖ **Cold Day to severe cold day conditions** very likely to continue in some parts of Bihar on 12th January. **Cold day conditions** also very likely in isolated pockets over West Uttar Pradesh during 15th-16th; over East Uttar Pradesh on 12th, 15th & 16th and over Bihar on 13th & 14th January 2023.

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