



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

**Press Release
Date: 18th January, 2023
Time of Issue: 1300 hours IST**

**Subject: (i) A fresh intense Western Disturbance will affect Western Himalayan Region during 20th night to 26th January and plains of northwest India during 23rd to 25th January, 2023.
(ii) Abatement of cold wave conditions over northwest India after 24 hours.**

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

- ❖ **The minimum temperatures** are in the range of 1-4°C over most parts of Punjab, Haryana, Chandigarh & Delhi; many parts of West Uttar Pradesh; some areas of Rajasthan and isolated pockets over East Uttar Pradesh, Madhya Pradesh and Bihar. **The Lowest Minimum Temperature of -1.5°C observed over Sikar (East Rajasthan).**
- ❖ **Cold wave conditions** at most places with **Severe Cold wave** in isolated pockets prevailed over Punjab and Haryana-Chandigarh-Delhi; **Cold wave to severe cold wave conditions** in some parts over East Rajasthan and West Uttar Pradesh; in isolated pockets over East Uttar Pradesh and West Rajasthan; **Cold wave conditions** in some areas of West Madhya Pradesh and in isolated pockets over East Madhya Pradesh and Bihar.
- ❖ **Very Dense fog** in isolated pockets observed over Bihar and Sub-Himalayan West Bengal & Sikkim and **Dense fog** in isolated pockets over Himachal Pradesh, Odisha and Tripura.

Weather Forecast and Warnings (Annexure I):

Weather Systems and associated rainfall/snowfall

- ❖ A **Western Disturbance** as a trough in middle tropospheric westerlies runs roughly along 65°E to the north of 28°N. Under its influence, light/moderate isolated to scattered rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand likely on 18th & 19th January, 2023. Isolated light rainfall also likely over Punjab and Haryana on 19th & 20th and Rajasthan on 19th January, 2023.
- ❖ **Another active Western Disturbance seen as a cyclonic circulation over west Iran in middle & upper tropospheric levels. It is very likely to affect Western Himalayan Region from the night of 20th till 26th and plains of northwest India during 23rd to 25th January, 2023.**
 - ✓ Under its influence, light/moderate isolated to scattered rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 20th & 21st. Its intensity & distribution is likely to increase thereafter with scattered to widespread rainfall/snowfall during 22nd to 26th with **its peak intensity with possibility of heavy rainfall/snowfall on 24th & 25th January, 2023.**

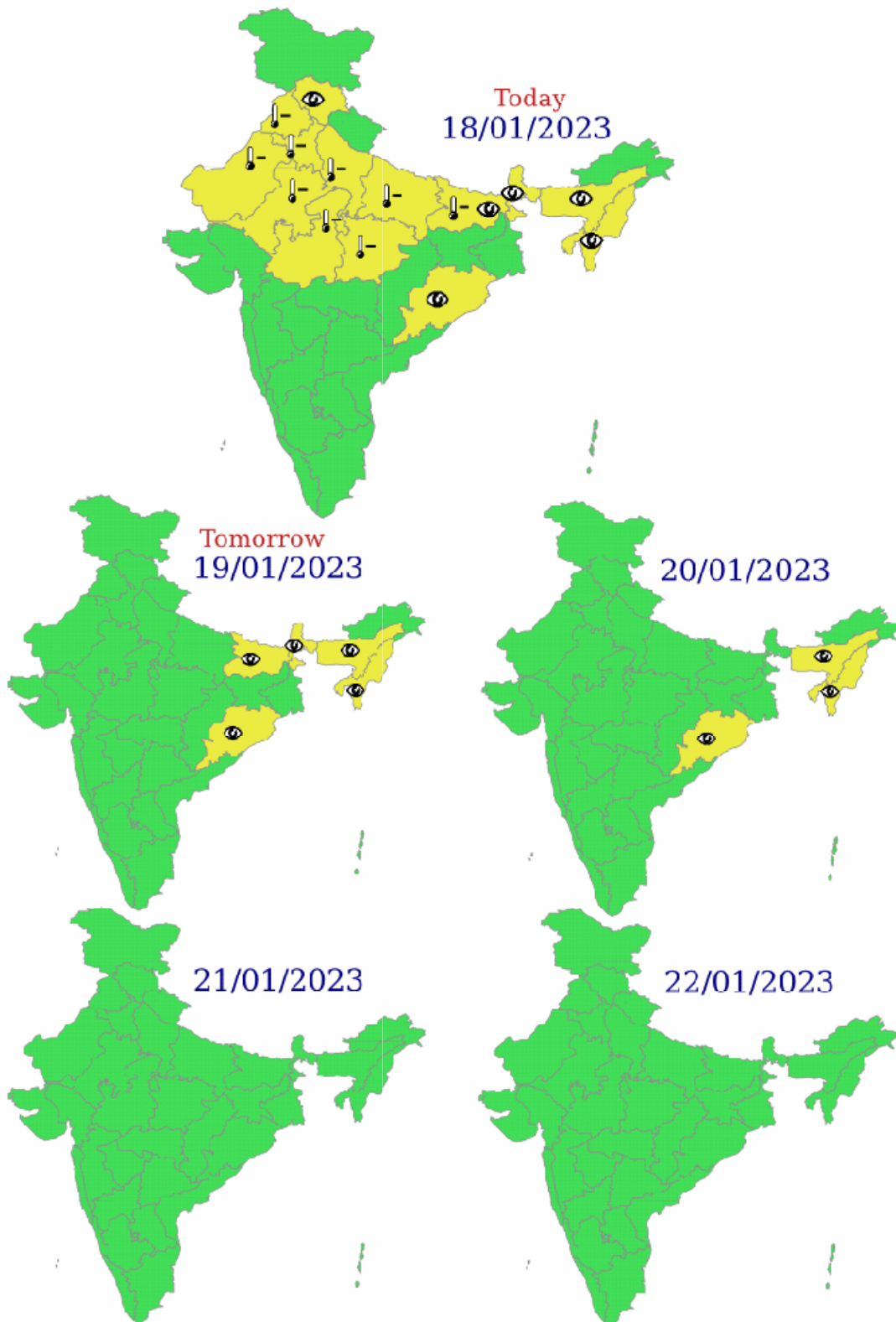
- ✓ Light/moderate isolated to scattered rainfall/thundershower is likely over Punjab, Haryana & Chandigarh, north Rajasthan and West Uttar Pradesh during 23rd to 25th and over Delhi on 23rd & 24th January, 2023.

Minimum Temperature Forecast, Cold Wave, Cold Day & Fog Warning:

- ❖ Rise in minimum temperatures by 3-5°C very likely over many parts of Northwest India on 19th & 20th January and no significant change thereafter for subsequent 3 days. No significant change in minimum temperatures over Madhya Pradesh till 19th morning and rise by 3-5°C thereafter. Rise by 2-3°C in minimum temperatures very likely over Gujarat state till 20th and no significant change thereafter. Rise by 2-4°C in minimum temperatures very likely over Maharashtra till 22nd 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** very likely to continue in isolated pockets over north Rajasthan and **Cold wave condition** in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar and north Madhya Pradesh on 19th and abate thereafter.
- ❖ **Dense fog** very likely in isolated pockets during night & morning hours over Himachal Pradesh during 18th-19th; Sub Himalayan West Bengal & Sikkim and Bihar during 18th-20th; Odisha, Assam & Meghalaya and Tripura during 18th-21st January 2023.

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

