



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

**Press Release
Date: 19th January, 2023
Time of Issue: 1240 hours IST**

Subject: (i) An intense Western Disturbance likely to affect Western Himalayan Region during 20th night to 26th January and plains of northwest India during 23rd to 26th January, 2023.

(ii) No cold wave conditions over north India during next 5 days.

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

- ❖ **The minimum temperatures** are in the range of 2-5°C over some parts of North Madhya Pradesh and isolated pockets over Haryana and East Uttar Pradesh. **The Lowest Minimum Temperature of 2.0°C observed over Nowgong (East Madhya Pradesh).**
- ❖ **Cold wave conditions** prevailed in isolated pockets over South Haryana, East Rajasthan, North Madhya Pradesh and Bihar.
- ❖ **Dense fog** occurred in isolated pockets over Jammu & Kashmir, Bihar, Odisha, Assam & Meghalaya and Tripura.

Weather Forecast and Warnings (Annexure I):

Weather Systems and associated rainfall/snowfall

- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies runs along 70°E to the north of 30°N. Under its influence, light/moderate scattered rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 19th January, 2023. Isolated light rainfall also likely over north Punjab and Haryana, Chandigarh & Delhi on 19th & 20th and north Rajasthan on 19th January, 2023.

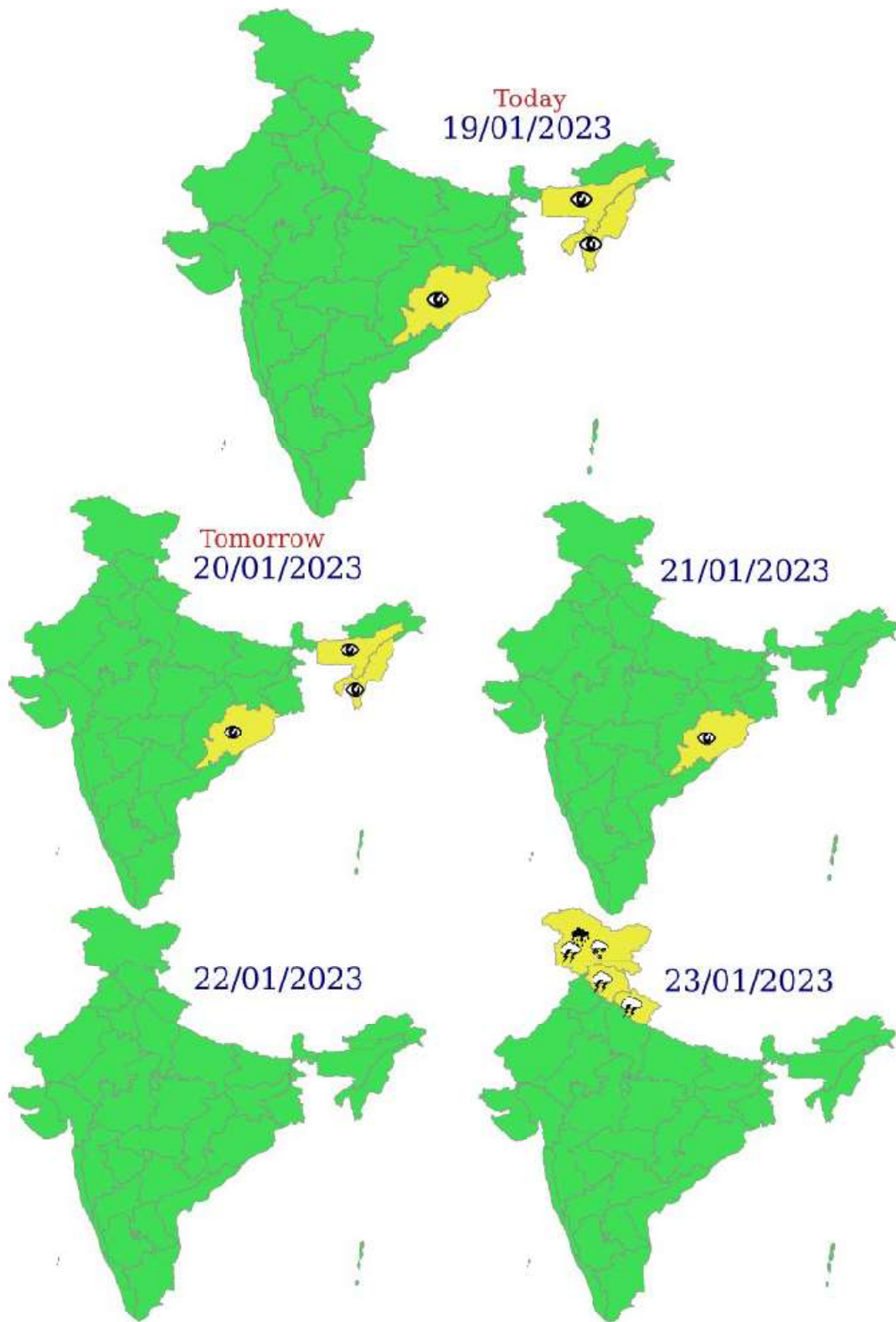
- ❖ **Another active Western Disturbance now seen as a trough in middle & upper tropospheric westerlies along Long. 60°E to the north of Lat. 25°N. It is very likely to affect Western Himalayan Region from the night of 20th till 26th and plains of northwest India during 23rd to 25th January, 2023.**
 - ✓ Under its influence, light/moderate isolated to scattered rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 20th-22nd. Its intensity & distribution is likely to increase thereafter with scattered to widespread rainfall/snowfall during 23rd to 26th with **its peak intensity with possibility of heavy rainfall/snowfall on 23rd to 25th January, 2023.**
 - ✓ Isolated **hailstorm** also likely over Western Himalayan Region on 23rd January, 2023.
 - ✓ Light/moderate isolated to scattered rainfall/thundershower is likely over Punjab, Haryana & Chandigarh, north Rajasthan and West Uttar Pradesh during 23rd to 26th and over Delhi on 23rd to 25th January, 2023.

Minimum Temperature Forecast and Fog Warning:

- ❖ **Rise in minimum temperatures by about 2°C very likely over many parts of Northwest India till 20th January and no significant change thereafter for subsequent 4 days.** Rise in minimum temperatures by 3-5°C over Madhya Pradesh till 20th morning and no significant change thereafter for subsequent 4 days. No significant change in minimum temperatures over East India till 20th morning and rise by 2-4°C thereafter for subsequent 4 days.
- ❖ **Dense fog** very likely in isolated pockets during night & morning hours over Odisha, Assam & Meghalaya and Tripura during 19th-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

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