



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 18th February, 2024

Time of Issue: 1230 hours IST

Subject: An intense spell of rainfall/snowfall activity likely over Western Himalayan Region during 18th-21st & plains of Northwest India during 19th-21st February, 2024.

Realised weather during past 24 hours till 0830 hours IST of today:

- ❖ **Minimum temperatures:** Minimum temperatures are in the range of 10-14°C over most parts of northern plains which are near normal. **Today, the lowest minimum temperature of 7.8°C reported at Muzaffarnagar (West Uttar Pradesh).**
- ❖ **Light rainfall** occurred at a few places over Arunachal Pradesh and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Kerala & Mahe.

Weather Systems and Forecast & Warnings during next 5 days: (graphics in Annexure I)

- ❖ Two **Western Disturbances**, one as a trough in middle tropospheric westerlies runs along Long. 55°E to the north of Lat. 30°N and another as a cyclonic circulation lies over north Pakistan & neighbourhood in lower levels. An induced **cyclonic circulation lies** over central Pakistan in lower tropospheric levels. Under the influence of these systems:
 - Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with **thunderstorms, lightning** very likely over Western Himalayan Region during 18th-21st February, 2024.
 - **Heavy rainfall/snowfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 18th-20th and over Uttarakhand on 19th & 20th February, 2024.**
 - **Very Heavy rainfall/snowfall also very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 19th February, 2024.**
 - **Hailstorm activity** very likely at isolated places over Jammu division and Himachal Pradesh on 18th & 19th and over Uttarakhand on 19th & 20th February, 2024.
 - Scattered to fairly widespread light/moderate rainfall very likely over Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh during 19th-21st; East Uttar Pradesh during 20th-22nd and isolated light/moderate rainfall over north Rajasthan during 19th-21st and over northwest Madhya Pradesh during 20th -22nd February, 2024.
 - Isolated **thunderstorms, lightning and gusty winds** very likely over Punjab during 18th-21st and over Haryana-Chandigarh-Delhi and West Uttar Pradesh during 19th-21st; north Rajasthan on 19th & 20th and over East Uttar Pradesh during 20th-22nd February, 2024.

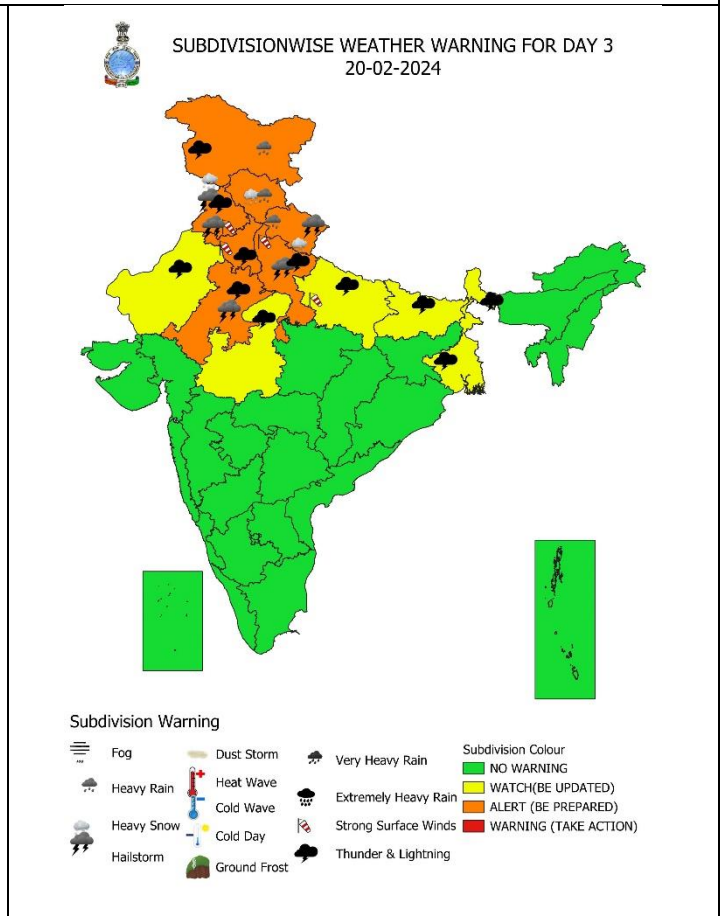
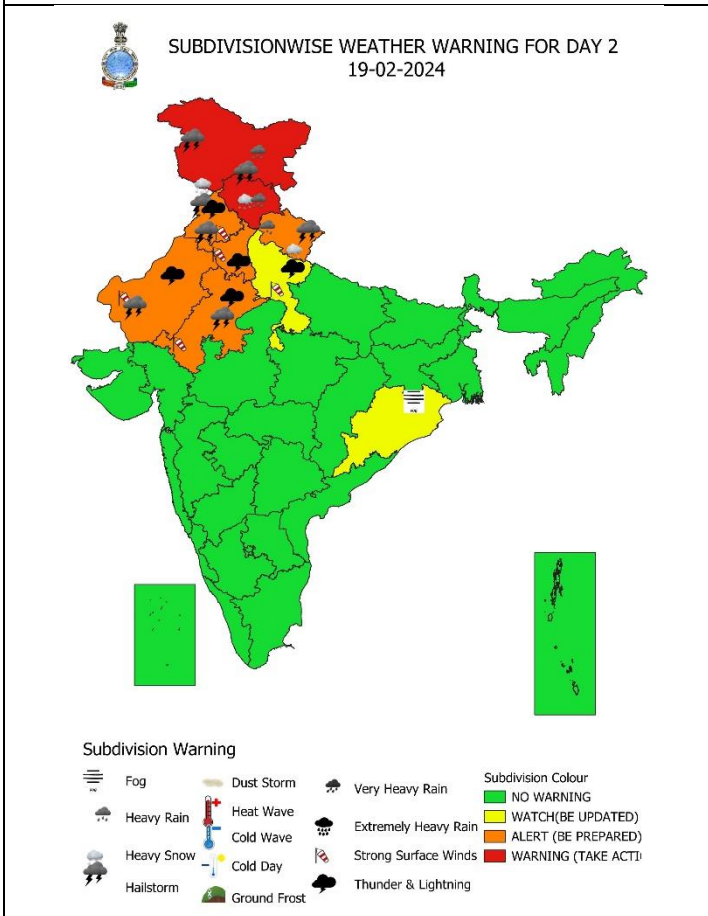
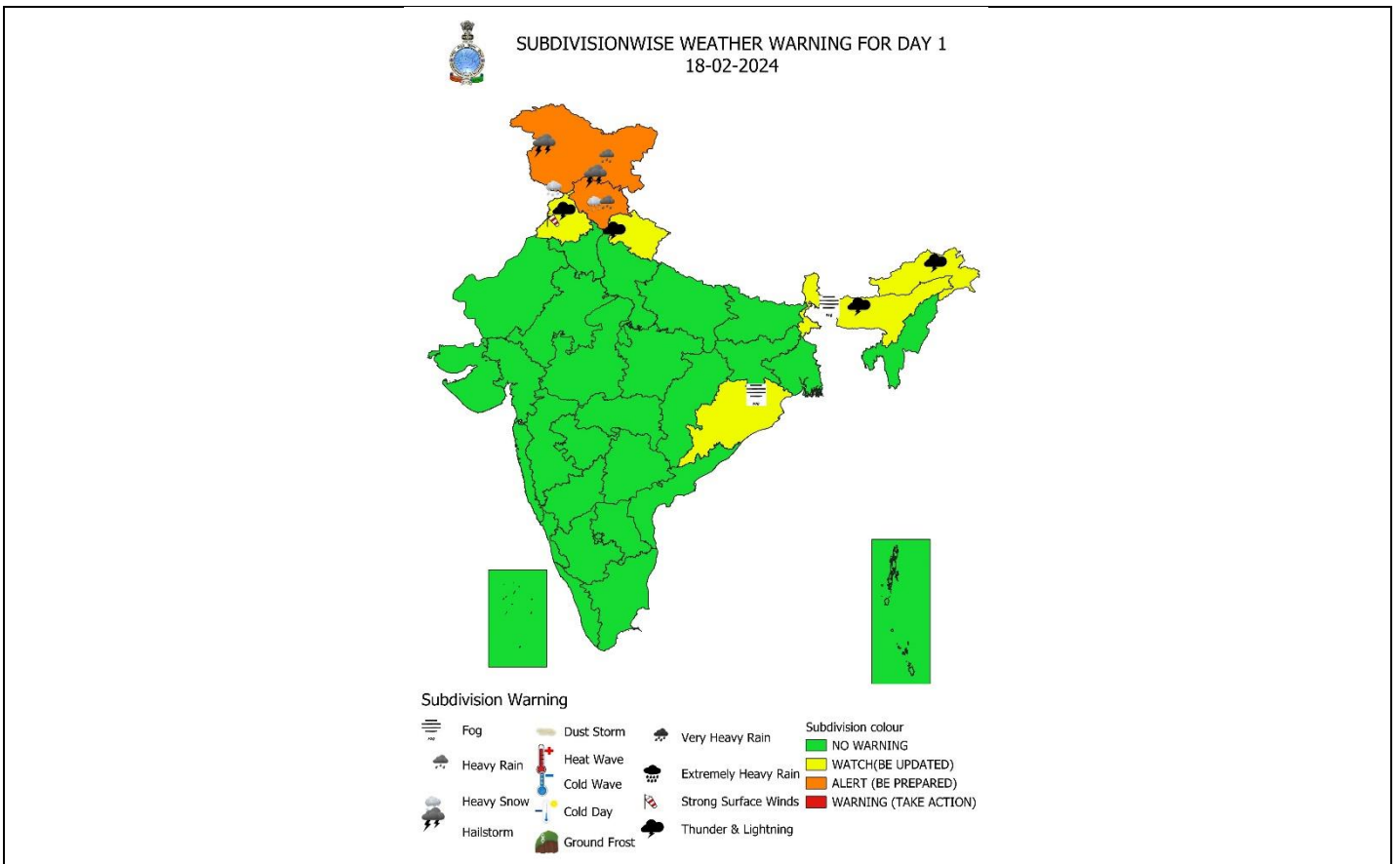
➤ **Hailstorm activity very likely at isolated places over Punjab, Haryana-Chandigarh and north Rajasthan on 19th & 20th and over West Uttar Pradesh on 20th February, 2024.**

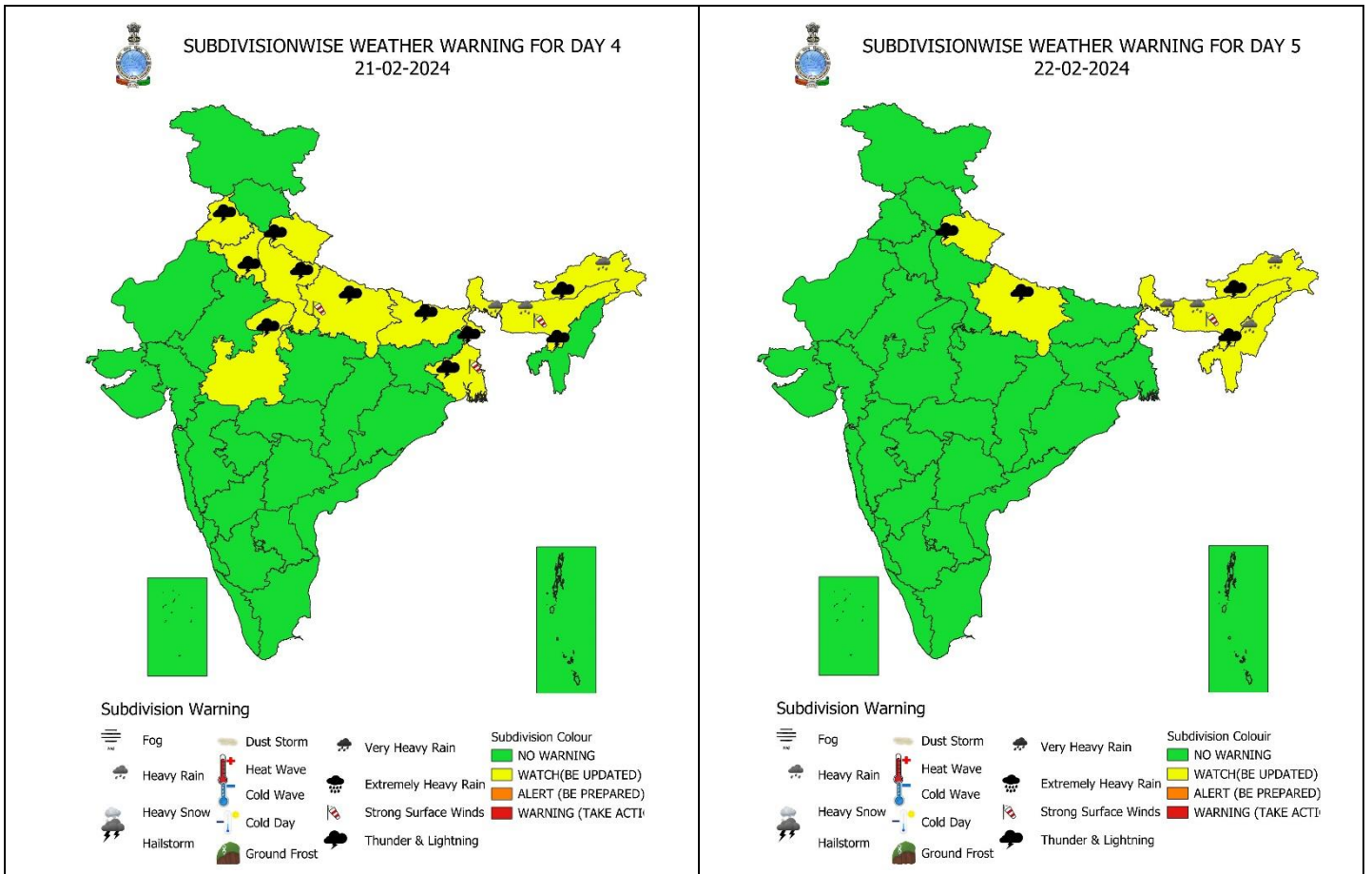
- ❖ Scattered to fairly widespread light/moderate rainfall/snowfall with thunderstorms & lightning likely over Northeast India during 20th to 23rd February, 2024. **Isolated heavy rainfall/snowfall** also likely over Sikkim, Arunachal Pradesh and rainfall over Assam & Meghalaya on 21st & 22nd and over Nagaland on 22nd February, 2024.
- ❖ **Dense fog** conditions very likely to prevail in morning hours in isolated pockets of Sub-Himalayan West Bengal & Sikkim on 19th and over Odisha on 19th & 20th February, 2024.

Minimum Temperature Forecast:

- ❖ Gradual Rise in minimum temperatures by 2-4°C very likely over East India during next 3 days and no significant change thereafter.
- ❖ Gradual Rise in minimum temperatures by 3-4°C very likely over Northwest India during next 2 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures very likely over Central India during next 5 days.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php





Impact & Action Suggested due to heavy/very heavy rainfall/snowfall: Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 18th-20th; over Uttarakhand on 19th & 20th February, 2024.

Impacts Expected:

- Disruption of Electricity.
- Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- Disruption of traffic flow.
- Damage to Kuccha and unsecured structures.

Action Suggested:

- Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects – they can unexpectedly flood or overflow.
- Stay away from power lines or electrical wires.
- Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon
- Drive carefully.

Impact expected and action suggested due to thunderstorm with lightning/gusty winds & Hailstorm: Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 18th & 19th; over Uttarakhand, Punjab and Haryana-Chandigarh and north Rajasthan on 19th & 20th and over West Uttar Pradesh on 20th February, 2024.

Impact expected:

- ❖ Strong wind/hail may damage plantation, horticulture and standing crops.
- ❖ Hail may injure people and cattle at open places.
- ❖ Partial damage to vulnerable structures due to strong winds.
- ❖ Minor damage to kutcha houses/walls and huts.
- ❖ Loose objects may fly.














Action suggested:

- ❖ Stay indoors, close windows & doors and avoid travel if possible.
- ❖ Take safe shelters; do not take shelter under trees.
- ❖ Do not lie on concrete floors and do not lean against concrete walls.
- ❖ Unplug electrical/ electronic appliances.
- ❖ Immediately get out of water bodies.
- ❖ Keep away from all the objects that conduct electricity.



Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **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)

Subdivision Warning	 Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH (BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)