

Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 17<sup>th</sup> February, 2024

Time of Issue: 1245 hours IST

**Subject: An intense spell of rainfall/snowfall activity likely over Western Himalayan Region from night of 17<sup>th</sup> to 22<sup>nd</sup> February and adjoining plains of northwest India during 19<sup>th</sup>-22<sup>nd</sup> February 2024.**

**Realized weather during past 24 hours till 0830 hours IST of today:**

- ❖ **Minimum temperatures:** Minimum temperatures are in the range of 9-12°C over most parts of Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and north Rajasthan which are normal to below normal by 1-3°C and above normal over rest parts of north India. **Today, the lowest minimum temperature of 6.0°C reported at Hisar (Haryana).**
- ❖ **Light rainfall** occurred at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Odisha, East Madhya Pradesh and Chhattisgarh.

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

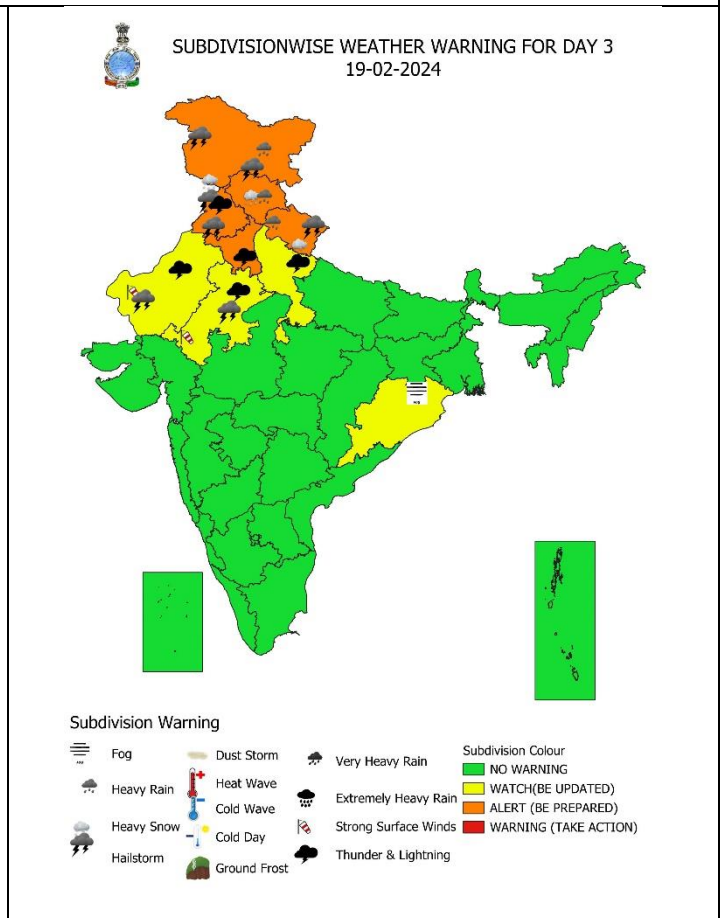
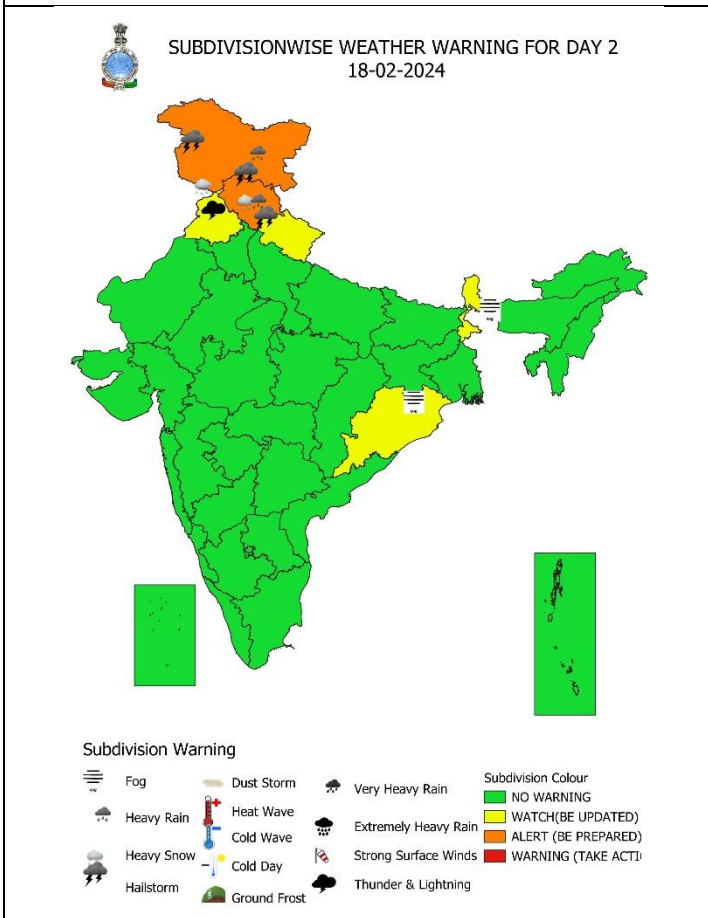
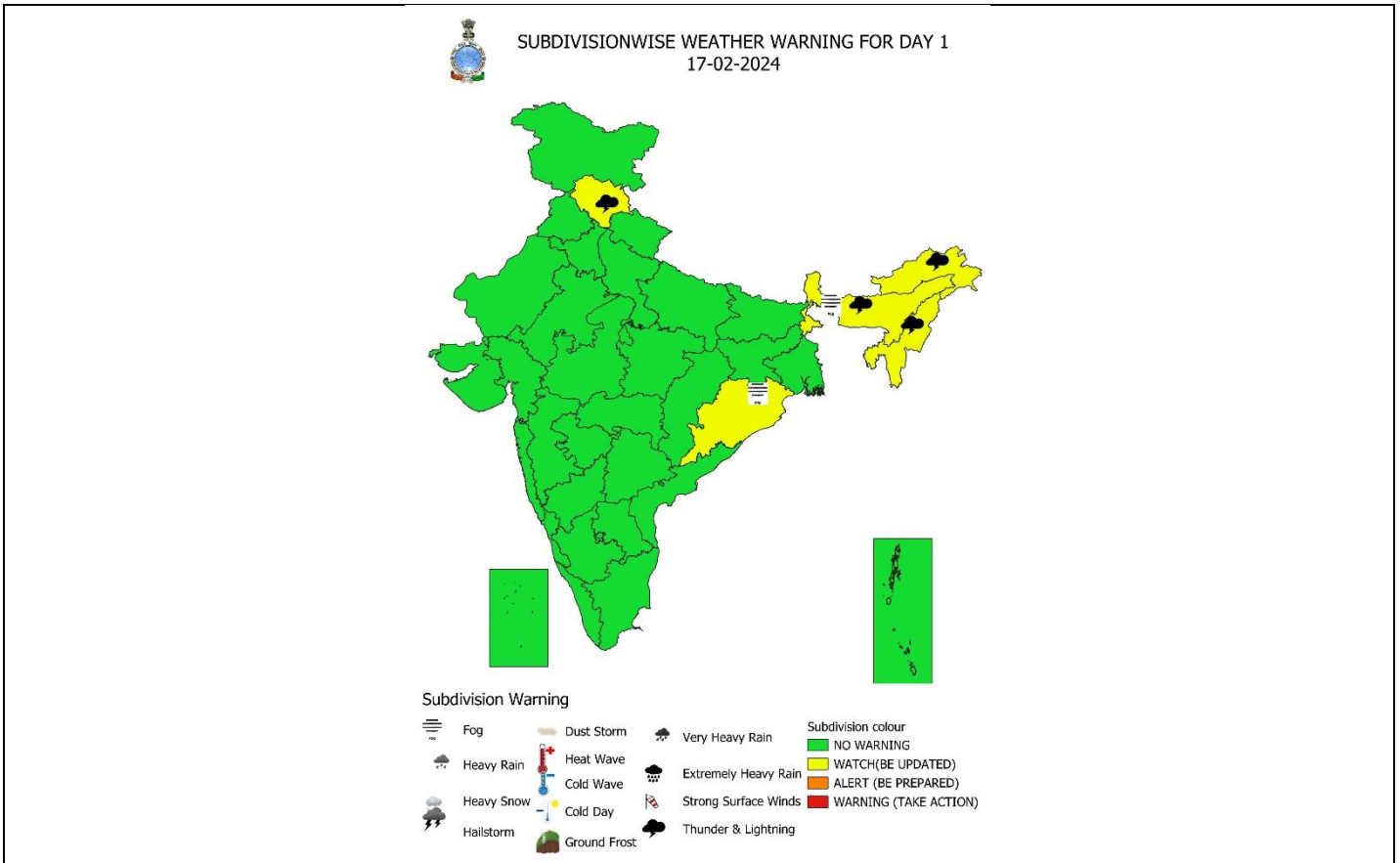
- ❖ A fresh active Western Disturbance is likely to affect northwest India from today night, the 17<sup>th</sup> February and under its influence:
  - Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with **thunderstorms, lightning** over Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand) **during 17<sup>th</sup>-20<sup>th</sup> February, 2024.**
  - **Heavy rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 18<sup>th</sup> & 20<sup>th</sup> and over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup> February, 2024.
  - **Very Heavy rainfall** also very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 19<sup>th</sup> February, 2024.
  - **Hailstorm activity** very likely at isolated places over Jammu division on 18<sup>th</sup>; over Himachal Pradesh on 18<sup>th</sup> & 19<sup>th</sup> and over Uttarakhand during 18<sup>th</sup>-21<sup>st</sup> February, 2024.
  - Scattered to fairly widespread light/moderate rainfall very likely over Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh during 19<sup>th</sup>-21<sup>st</sup>; East Uttar Pradesh during 20<sup>th</sup>-22<sup>nd</sup> and isolated light/moderate rainfall over north Rajasthan during 19<sup>th</sup>-21<sup>st</sup> and over north Madhya Pradesh during 20<sup>th</sup> -22<sup>nd</sup> February, 2024.
  - Isolated **thunderstorms, lightning and gusty winds** (speed reaching 30-40 gusting to 50 kmph) very likely over Punjab during 18<sup>th</sup>-21<sup>st</sup> and over Haryana-Chandigarh-Delhi and West Uttar Pradesh during 19<sup>th</sup>-21<sup>st</sup>; north Rajasthan during 19<sup>th</sup>-20<sup>st</sup> and over East Uttar Pradesh on 20<sup>th</sup> & 21<sup>st</sup> February, 2024.
  - **Hailstorm activity** very likely at isolated places over Punjab, Haryana and north Rajasthan on 19<sup>th</sup> & 20<sup>th</sup> and over West Uttar Pradesh on 20<sup>th</sup> February, 2024.
- ❖ Under the influence of cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels; isolated light to moderate rainfall very likely over Arunachal Pradesh on 17<sup>th</sup> & 18<sup>th</sup> and over Assam & Meghalaya and Nagaland on 17<sup>th</sup> February, 2024.

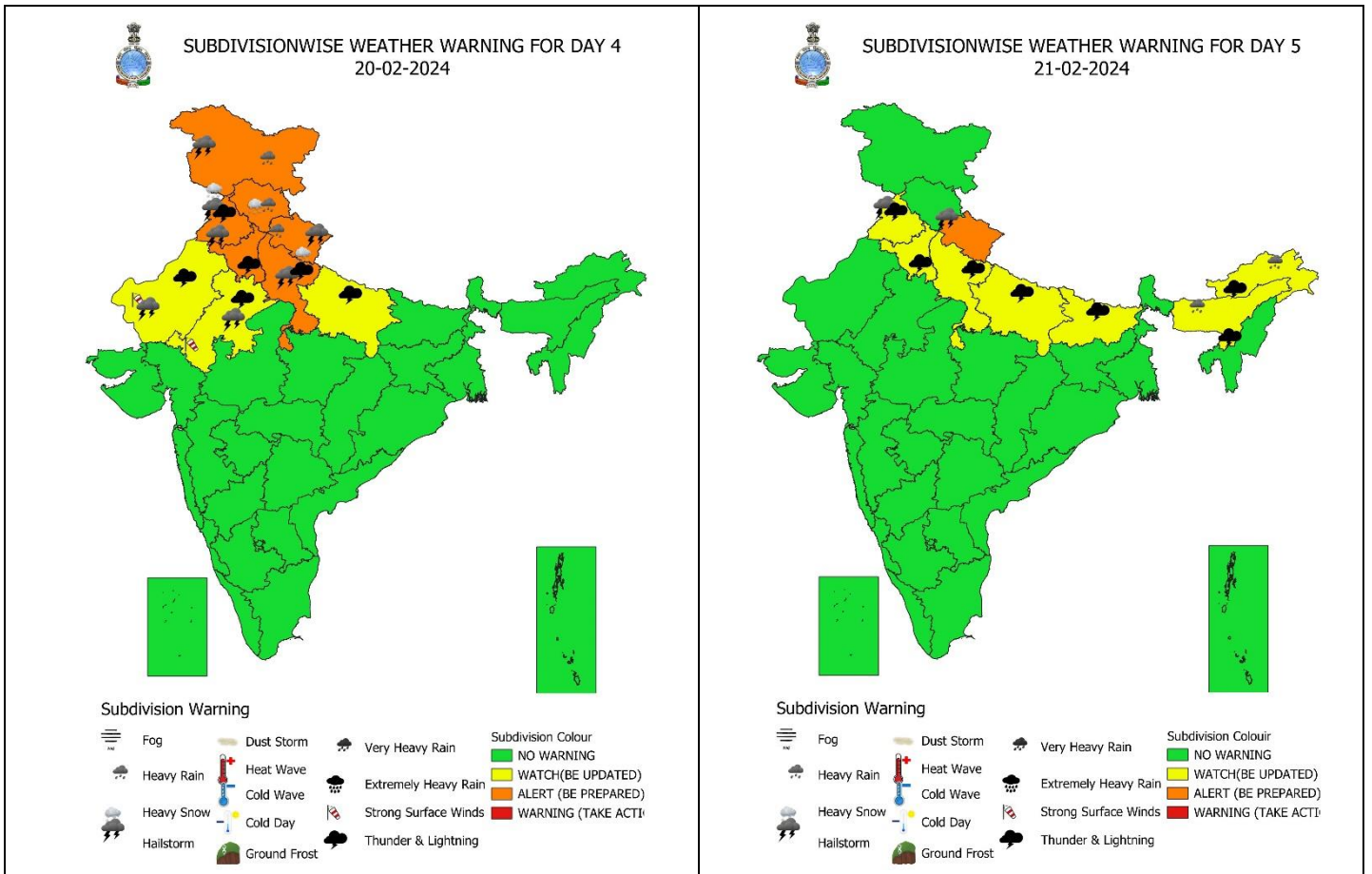
- ❖ Under the influence of a fresh cyclonic circulation/trough in lower levels; fairly widespread to widespread light/moderate rainfall/snowfall over Northeast India during 21<sup>st</sup> to 24<sup>th</sup> February, 2024. **Isolated heavy rainfall/snowfall also likely over Arunachal Pradesh and Assam & Meghalaya on 21<sup>st</sup> February, 2024.**
- ❖ **Dense fog** conditions very likely to prevail in morning hours in isolated pockets of Sub-Himalayan West Bengal & Sikkim on 18<sup>th</sup> & 19<sup>th</sup> February and over Odisha during 18<sup>th</sup>-20<sup>th</sup> February, 2024.

**Minimum Temperature Forecast:**

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

For more details kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)





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

### Impacts Expected for Rain/Snow

- 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.

### Suggested Actions

- 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 division on 18<sup>th</sup>; over Himachal Pradesh on 18<sup>th</sup> & 19<sup>th</sup>; over Uttarakhand during 18<sup>th</sup> -21<sup>st</sup>; over Punjab and Haryana on 19<sup>th</sup> & 20<sup>th</sup> and over West Uttar Pradesh on 20<sup>th</sup> 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)