



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.

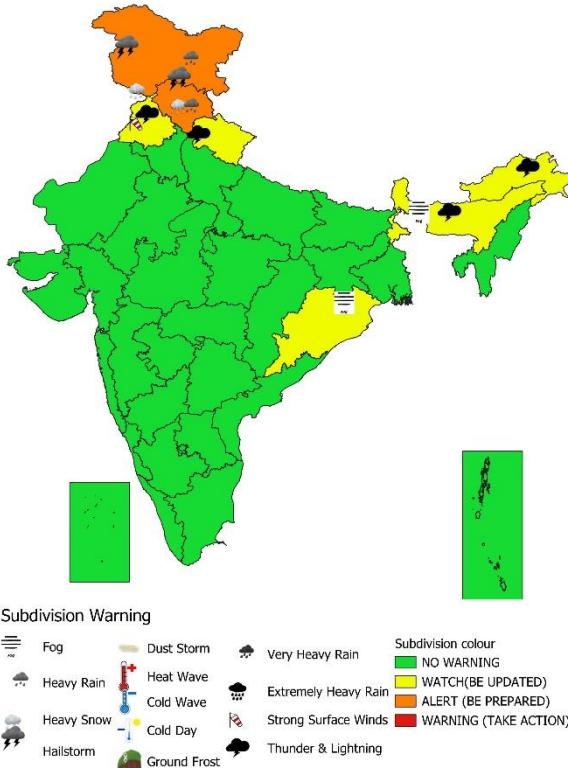
Minimum Temperature Forecast:

- ❖ 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.

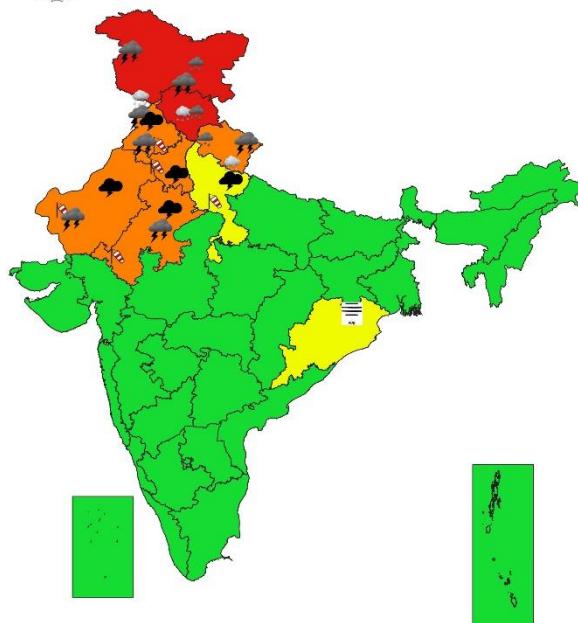
For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php



SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
18-02-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
19-02-2024

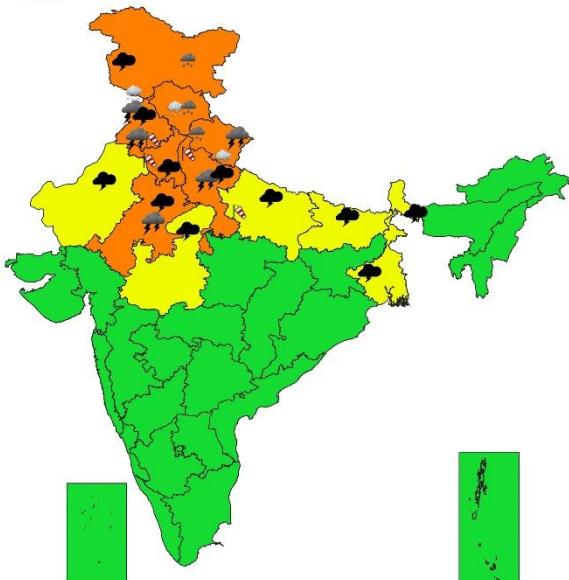


Subdivision Warning

Symbol	Condition	Subdivision Colour
Wavy lines	Fog	NO WARNING
Cloud with rain	Heavy Rain	WATCH(BE UPDATED)
Cloud with snow	Heavy Snow	ALERT (BE PREPARED)
Cloud with lightning	Hailstorm	WARNING (TAKE ACTION)
Cloud with sun	Very Heavy Rain	
Cloud with sun and rain	Extremely Heavy Rain	
Cloud with cold wave	Cold Wave	
Cloud with cold day	Cold Day	
Cloud with strong winds	Strong Surface Winds	
Cloud with lightning	Thunder & Lightning	
Cloud with dust storm	Dust Storm	
Cloud with heat wave	Heat Wave	
Cloud with ground frost	Ground Frost	



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
20-02-2024

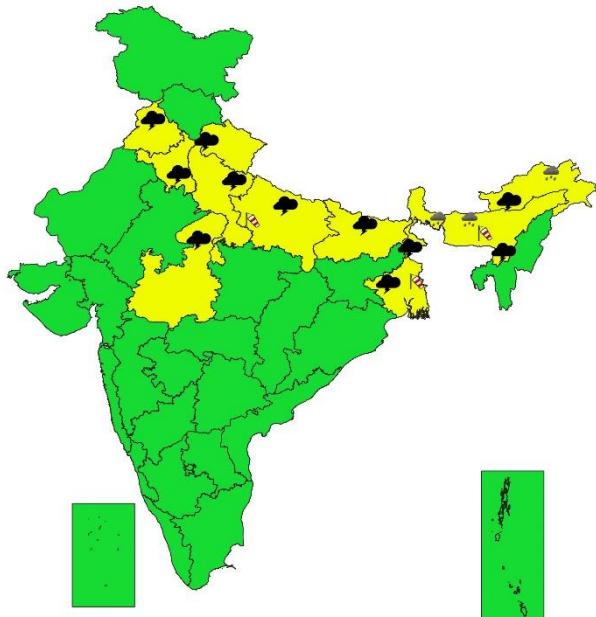


Subdivision Warning

Symbol	Condition	Subdivision Colour
Wavy lines	Fog	NO WARNING
Cloud with rain	Heavy Rain	WATCH(BE UPDATED)
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Cloud with cold wave	Cold Wave	
Cloud with cold day	Cold Day	
Cloud with strong winds	Strong Surface Winds	
Cloud with lightning	Thunder & Lightning	
Cloud with dust storm	Dust Storm	
Cloud with heat wave	Heat Wave	
Cloud with ground frost	Ground Frost	



SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
21-02-2024

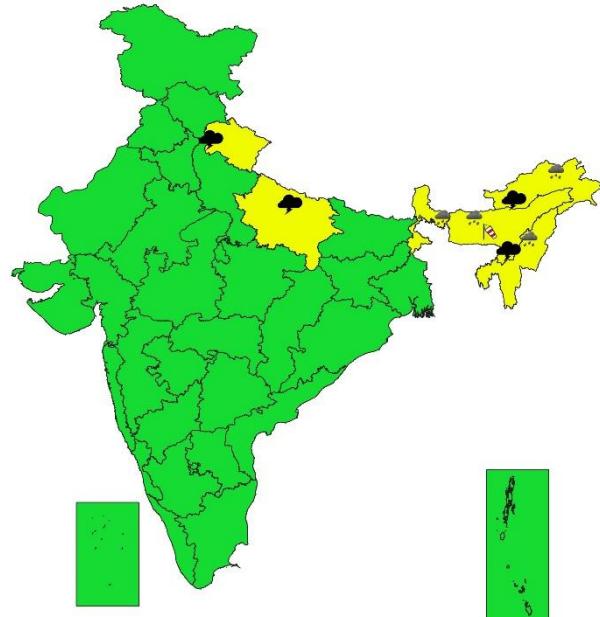


Subdivision Warning

Fog	Dust Storm	Very Heavy Rain	Subdivision Colour
Heavy Rain	Heat Wave	Extremely Heavy Rain	NO WARNING
Heavy Snow	Cold Wave	ALERT (BE PREPARED)	WATCH(BE UPDATED)
Hailstorm	Cold Day	Strong Surface Winds	WARNING (TAKE ACTI
Ground Frost		Thunder & Lightning	WARNING (TAKE ACTI



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
22-02-2024



Subdivision Warning

Fog	Dust Storm	Very Heavy Rain	Subdivision Colour
Heavy Rain	Heat Wave	Extremely Heavy Rain	NO WARNING
Heavy Snow	Cold Wave	ALERT (BE PREPARED)	WATCH(BE UPDATED)
Hailstorm	Cold Day	Strong Surface Winds	WARNING (TAKE ACTI
Ground Frost		Thunder & Lightning	WARNING (TAKE ACTI

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 Widespred (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		Flash Flood Risk	
Terms	Probability of Occurrence (%)		
Unlikely	< 25	High Risk (Take Action)	
Likely	25 - 50	Moderate Risk (Be Prepared)	
Very Likely	50 - 75	Low Risk (Be Updated)	
Most Likely	> 75		