



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 13th March, 2024

Time of Issue: 1230 hours IST

Subject: Light/Moderate rainfall/snowfall accompanied with thunderstorm & hail likely over Western Himalayan Region today, the 13th March, 2024.

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

- ❖ **Light/Moderate rainfall/snowfall** at many places over Arunachal Pradesh; at isolated places over Jammu-Kashmir, Uttarakhand, Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- ❖ **Light rainfall** at isolated places over Assam & Meghalaya and Odisha.
- ❖ **Hailstorm** observed at isolated places over Himachal Pradesh.

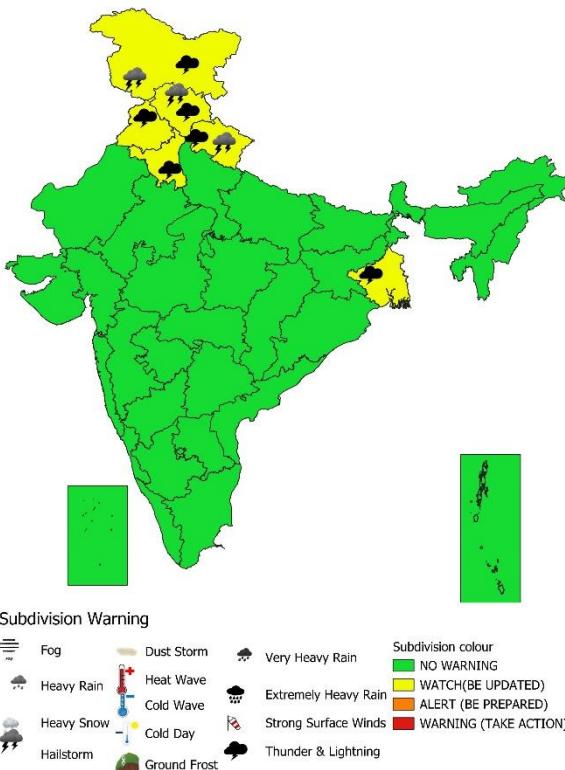
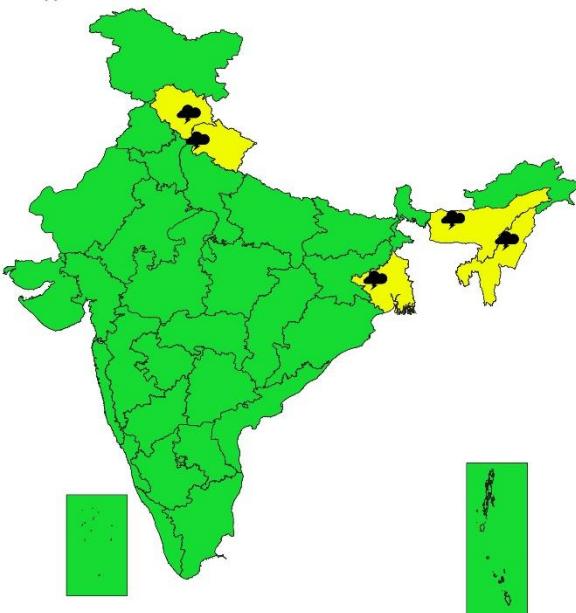
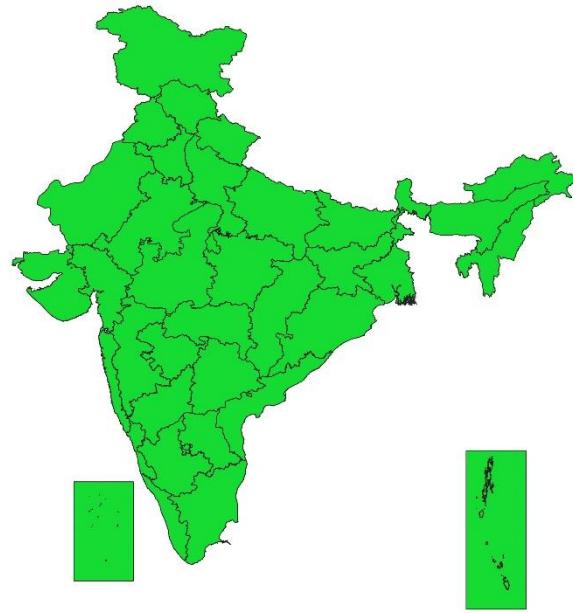
Weather Systems and Forecast & Warnings: (Annexure I)

- ❖ A Western Disturbance as a trough in middle tropospheric westerlies runs along Long. 66°E to the north of Lat. 28°N with an induced cyclonic circulation over southwest Rajasthan in lower tropospheric levels. Under the influence of these systems:
 - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall with isolated thunderstorm, hailstorm & lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 13th March, 2024 and with decreased intensity and distribution on 14th March over the region and dry weather thereafter.
 - ✓ Isolated to scattered light rainfall accompanied with **thunderstorms, lightning & gusty winds (30-40 kmph)** very likely over Punjab and Haryana on 13th March, 2024.
 - ✓ Isolated light rainfall very likely over northwest Uttar Pradesh & north Rajasthan on 13th March, 2024.
- ❖ Isolated light rainfall/snowfall very likely over Sub-Himalayan West Bengal & Sikkim during 13th-16th and Isolated light rainfall over Gangetic West Bengal & Odisha during 13th-19th; over Jharkhand, Vidarbha, Chhattisgarh and East Madhya Pradesh during 16th-19th March, 2024.
- ❖ Isolated **thunderstorms, lightning & gusty winds (30-40 kmph)** very likely over Gangetic West Bengal on 13th, 14th & 16th and over East Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha on 16th & 17th March, 2024.
- ❖ Isolated to scattered light/moderate rainfall/snowfall very likely over Arunachal Pradesh during 13th-19th March, 2024. Isolated light rainfall very likely over Assam & Meghalaya during 13th-19th and Nagaland, Manipur, Mizoram & Tripura during 13th-17th March, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during next 5 days.

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

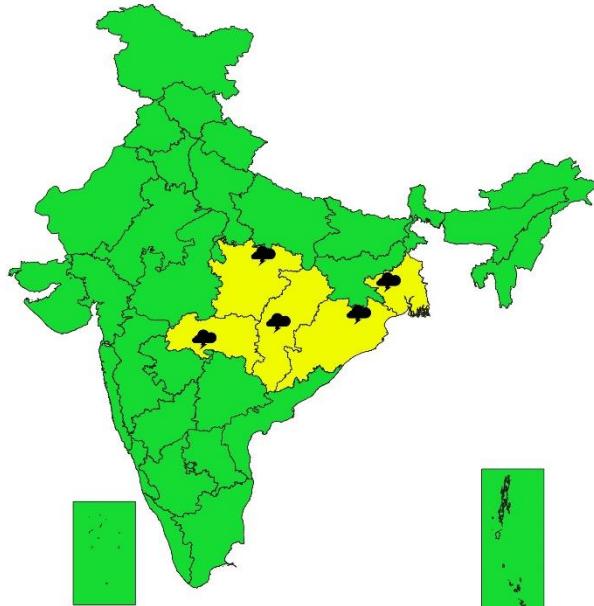
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1

13-03-2024

SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
14-03-2024SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
15-03-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
16-03-2024

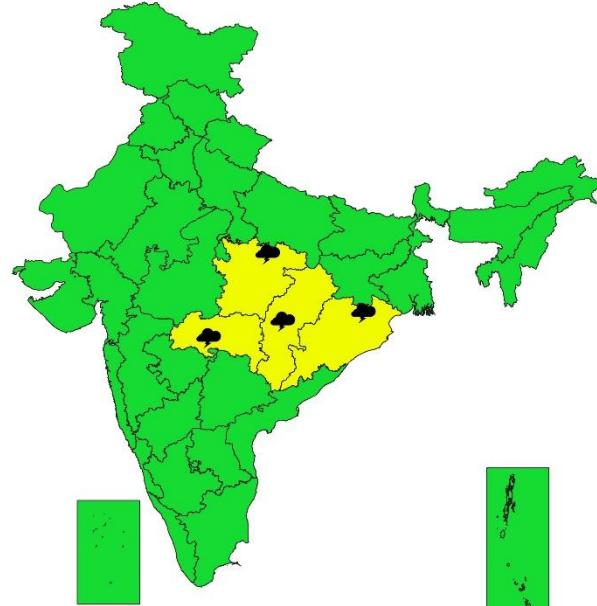


Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		WATCH(BE UPDATED)
	Heavy Snow		Cold Wave		Strong Surface Winds		ALERT (BE PREPARED)
	Hailstorm		Cold Day				WARNING (TAKE ACTION)
	Ground Frost				Thunder & Lightning		



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
17-03-2024



Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		WATCH(BE UPDATED)
	Heavy Snow		Cold Wave		Strong Surface Winds		ALERT (BE PREPARED)
	Hailstorm		Cold Day				WARNING (TAKE ACTION)
	Ground Frost				Thunder & Lightning		

Impact expected and action suggested due to thunderstorm with lightning & Hailstorm: over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand on 13th March, 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 & abbreviations:

- ❖ **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; **PTO:** Part Time Office.
- ❖ **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	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75