



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.

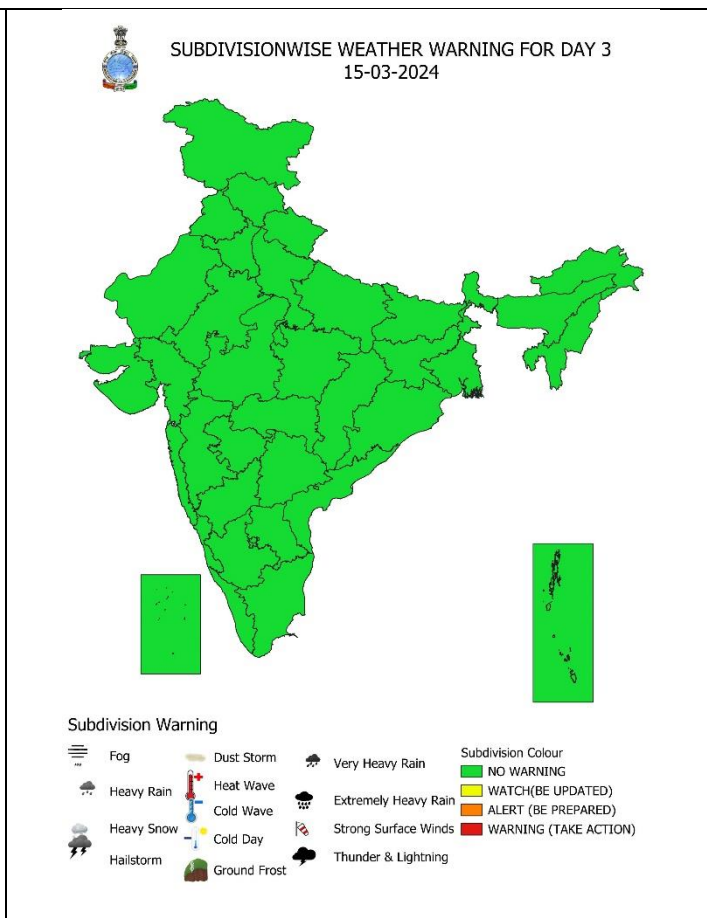
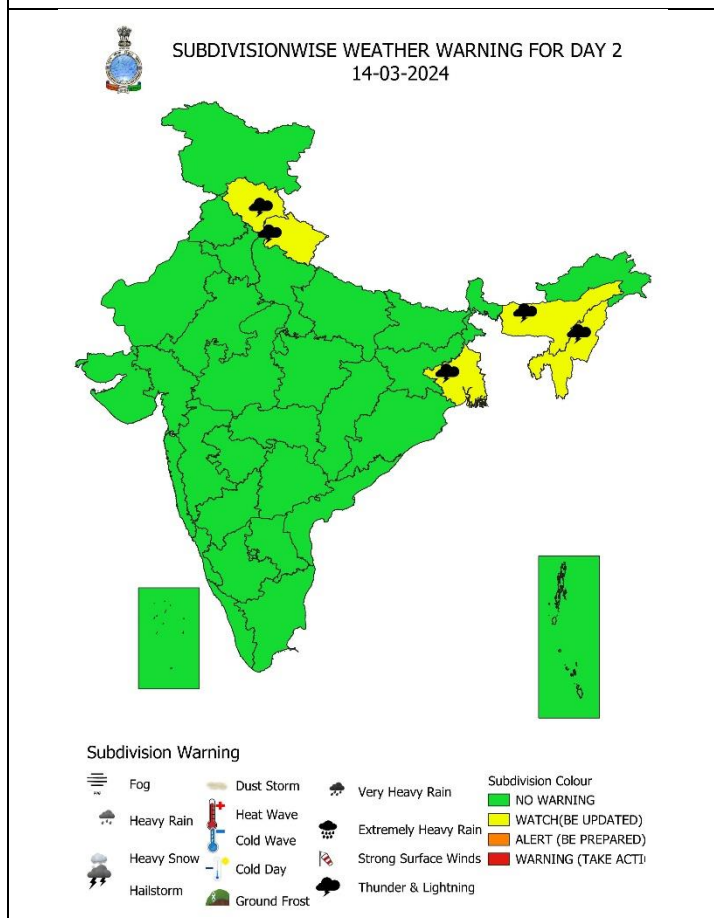
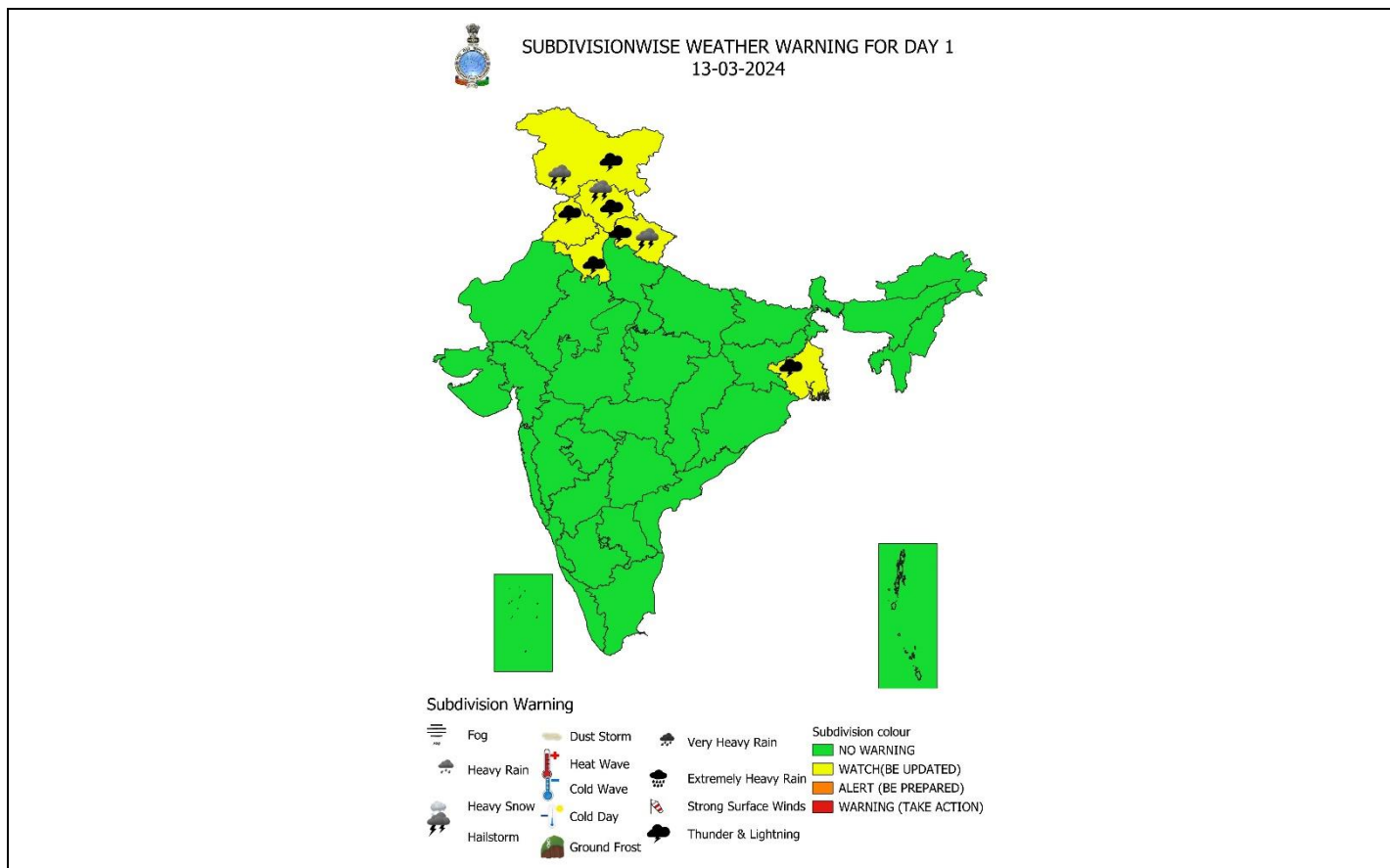
Realised weather during past 24 hours till 0830 hours IST of today:

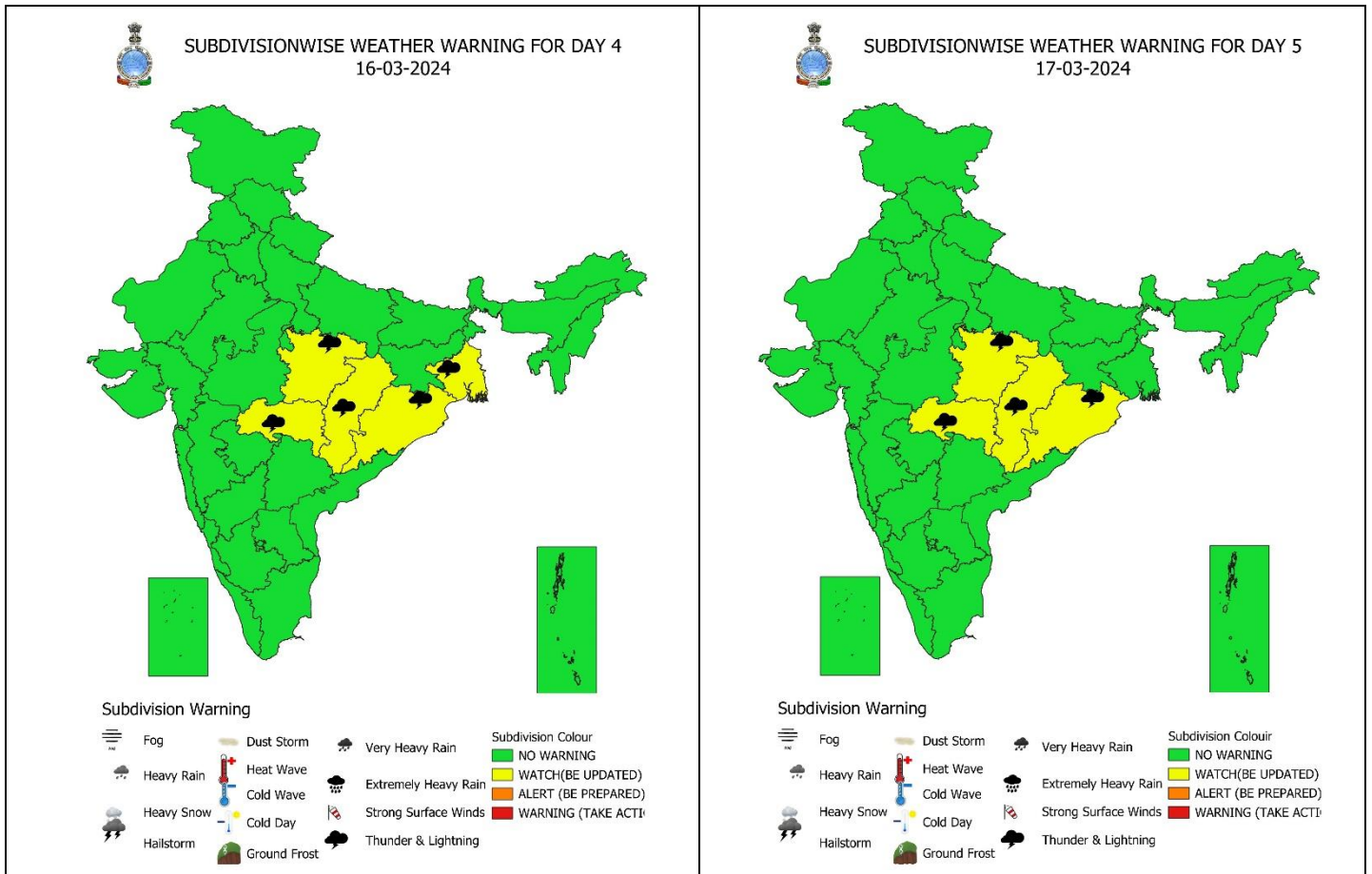
- ❖ **Light/Moderate rainfall/snowfall** at many places over Arunachal Pradesh; at isolated places over Jammu-Kashmir, Uttarakhand, Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- ❖ **Light rainfall** at isolated places over Assam & Meghalaya and Odisha.
- ❖ **Hailstorm** observed at isolated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





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 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