



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 27th March, 2024

Time of Issue: 1330 hours IST

Subject:

- i. **Light to moderate Rainfall/thunderstorm activity over Western Himalayan Region and adjoining plains of Northwest India during 27th-31st with peak activity on 29th & 30th March, 2024.**
- ii. **A fresh spell of intense rainfall/thunderstorm likely over Northeast India from 30th March to 1st April, 2024.**

Realised weather during past 24 hours till 0830 hours IST of today: (Annexure I)

- ❖ **Light/Moderate rainfall/snowfall** accompanied with thunderstorm recorded at most places over Arunachal Pradesh; at many places over Sikkim; light rainfall/snowfall at isolated places over Jammu-Kashmir and Himachal Pradesh.
- ❖ **Light/Moderate rainfall** accompanied with thunderstorm recorded at many places over Assam & Meghalaya, Sub-Himalayan West Bengal; at a few places over Assam & Meghalaya; at isolated places over Punjab, Haryana, Rajasthan, Odisha, Jharkhand, Gangetic West Bengal, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka and Kerala & Mahe.

Weather Systems and Forecast & Warnings: (Annexure II)

- ❖ A trough runs from northwest Bihar to southeast Assam and a trough in westerlies runs roughly along Long. 87°E to the north of Lat. 21°N in lower tropospheric levels. Under the influence of these systems:
 - ✓ Isolated to scattered rainfall/snowfall with isolated **thunderstorms & lightning** very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 27th-29th and increase thereafter with fairly widespread to widespread light to moderate rainfall/snowfall with isolated **thunderstorms & lightning** very likely over Arunachal Pradesh and scattered to fairly widespread over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during 30th March-02nd April, 2024.
 - ✓ **Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh and isolated heavy rainfall over Assam & Meghalaya on 30th March and isolated heavy to very heavy over Arunachal Pradesh & Assam & Meghalaya on 31st March, 2024.**
 - ✓ Isolated light to moderate rainfall with **thunderstorms & lightning** very likely over Gangetic West Bengal during 27th-31st March, 2024.
 - ✓ Isolated light to moderate rainfall very likely over Bihar, Jharkhand and Odisha on 30th & 31st March, 2024.

- ❖ A Western Disturbance as a trough in lower & middle tropospheric westerlies runs roughly along Long. 52°E to the north of Lat. 25°N. A cyclonic circulation lies over West Rajasthan & adjoining in lower tropospheric levels. Another fresh Western Disturbance likely to affect Western Himalayan Region from 29th March, 2024. Under their influence:
 - ✓ Fairly widespread to widespread light rainfall/snowfall with isolated **thunderstorms & lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 27th-31st; over Uttarakhand during 28th-31st March, 2024.
 - ✓ Isolated heavy rainfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 29th & 30th March, 2024.
 - ✓ Isolated **hailstorm** also likely over Himachal Pradesh during 28th-30th and over Uttarakhand on 29th & 30th March, 2024.
 - ✓ Isolated light rainfall with isolated **thunderstorms & lightning** likely over Punjab, Haryana, Chandigarh, West Uttar Pradesh during 27th-31st; Rajasthan on 29th & 30th and East Uttar Pradesh during 29th-31st March, 2024.

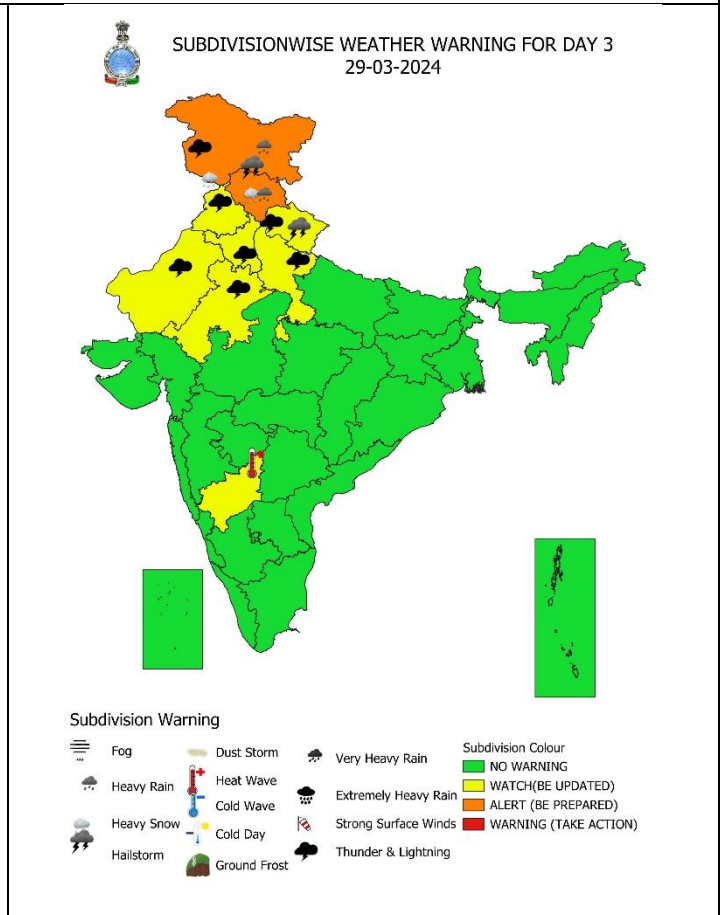
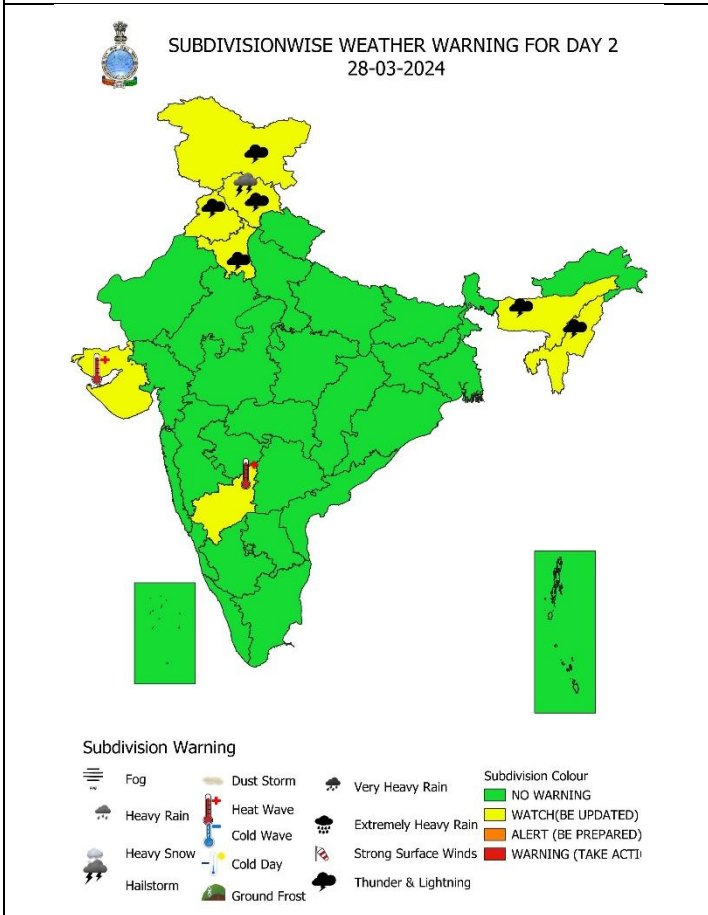
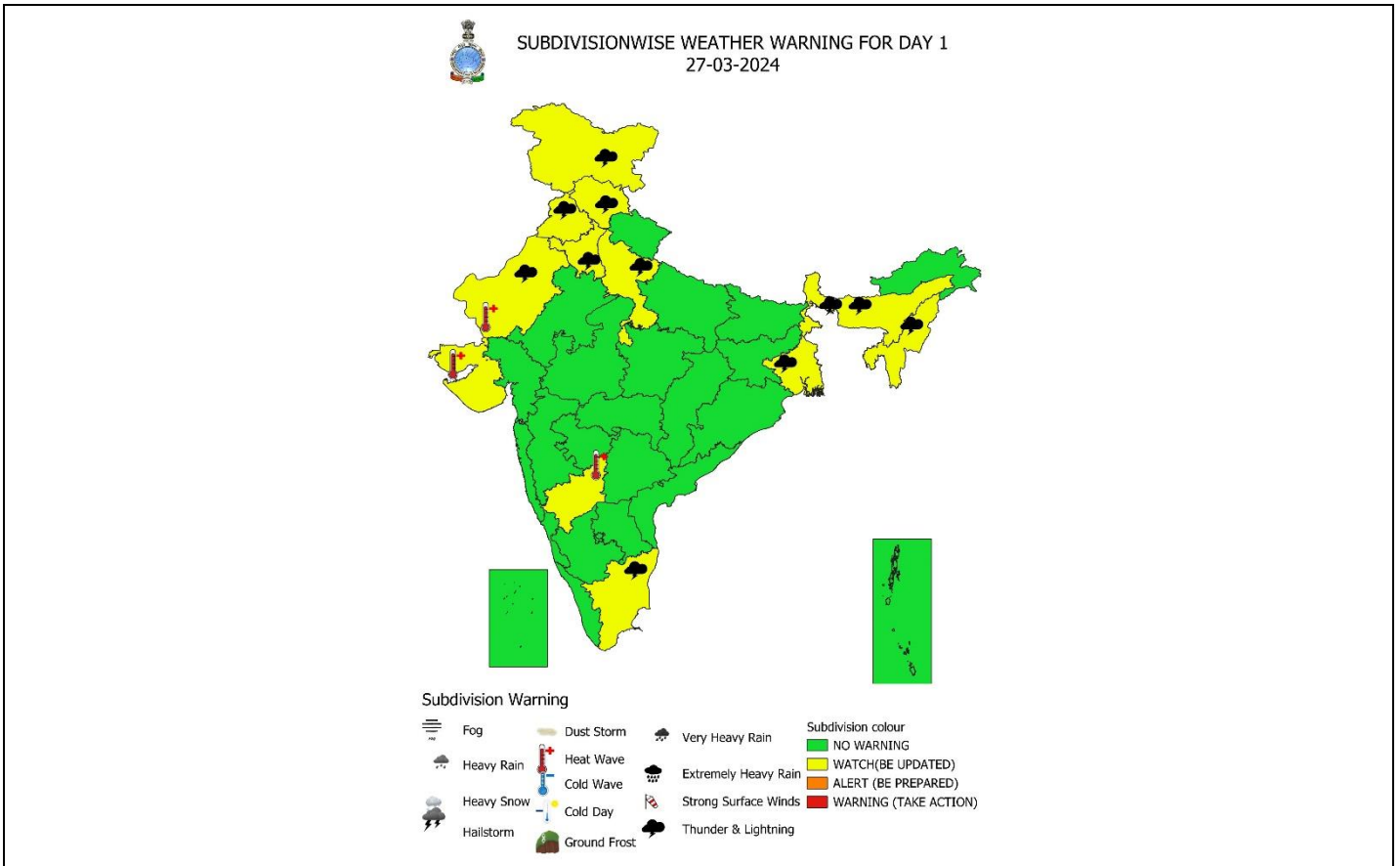
Maximum temperature observation and forecast for next 5 days:

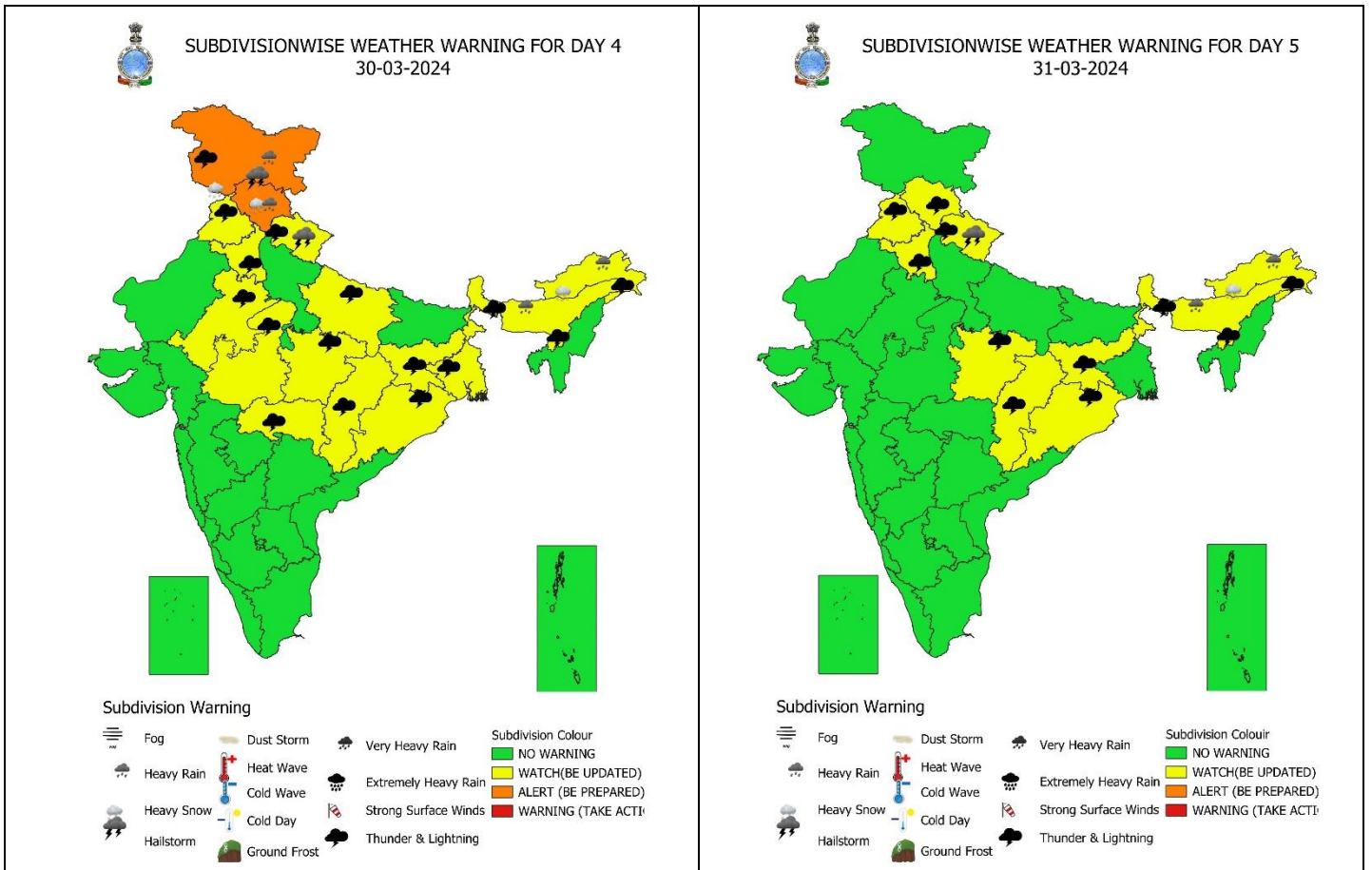
- ❖ Yesterday's, the maximum temperatures are in the range 40-42°C at some places over Vidarbha and at isolated pockets over Gujarat state, Marathwada and Northeast Madhya Maharashtra east Madhya Pradesh, West Rajasthan, Rayalaseema and North Interior Karnataka which are above normal by 3-4°C, in the range 36-39°C over most part of interior peninsular India, remaining part of Maharashtra and Gujarat, Coastal Karnataka, coastal Tamil Nadu, coastal areas of Andhra Pradesh and north Odisha which are above normal by 1-2°C and in the range 32-35°C over states in the Indo-Gangetic plains covering Punjab, Haryana Chandigarh, Delhi, Uttar Pradesh, Konkan & Goa, Bihar, Jharkhand and Gangetic West Bengal which are below normal by 1-2°C.
- ❖ Currently, the maximum temperatures are exceeding 95th percentile of climatological value at few pockets of Marathwada adjoining Vidarbha, isolated pockets over Madhya Maharashtra, south interior Karnataka adjoining north Kerala, Gujarat state, West Rajasthan south coastal Tamil Nadu and Madhya Pradesh. These are likely to continue to exceed 95th percentile of climatological value over extended areas of Rajasthan, Madhya Pradesh, Maharashtra, interior Odisha, interior Karnataka and Kerala & Mahe on 27th & 28th March.
- ❖ No significant change in maximum temperatures very likely over Northwest India during next 5 days (except West Rajasthan, where it is likely to fall by 2-3°C after 24 hours).
- ❖ Rise in maximum temperatures by 2-3°C very likely over Central & East India during next 3 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest part of the country during next 5 days.
- ❖ **Heat wave conditions** very likely in isolated pockets over North Interior Karnataka during 27th-29th; Saurashtra & Kutch on 27th & 28th and southwest Rajasthan on 27th March, 2024.
- ❖ **Warm night** very likely to prevail in isolated pockets over Gujarat Region, Marathwada and Madhya Maharashtra during 27th-29th March, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa on 27th & 28th; over Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 27th-31st and over Saurashtra & Kutch during 29th-31st March, 2024.

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

Significant rainfall amount (in cm):

- **Arunachal Pradesh:** Bomdila (dist West Kameng) 5, Kabu Basti (dist West Siang) 4, Kibithu (dist Anjaw) 3, Hawaii (dist Anjaw) 2, Basar_ Aws (dist West Siang) 2, Bomdila_ Aws (dist West Kameng) 2,
- **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri-3
- **Nagaland, Manipur, Mizoram & Tripura:** Tamenglong (dist Tamenglong) 3, Mokokchang (dist Mokokchung) 1
- **Assam & Meghalaya:** Williamnagar (dist East Garo Hills) 2, Umrangso (dist N. C. Hills) 1,





Impact expected and action suggested due to thunderstorm with lightning/gusty winds & Hailstorm over Himachal Pradesh during 28th-30th; Uttarakhand during 29th-31st 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.

Impact & Action Suggested due to heavy rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 29th & 30th March; Arunachal Pradesh and Assam & Meghalaya on 31st March, 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.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **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