



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 14<sup>th</sup> March, 2024

Time of Issue: 1230 hours IST

**Subject: Light/Moderate rainfall accompanied with thunderstorm likely over East & Central India during 16<sup>th</sup>-18<sup>th</sup> March, 2024.**

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

- ❖ **Light/Moderate rainfall/snowfall** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Arunachal Pradesh; at isolated places over Himachal Pradesh, Uttarakhand and Sub-Himalayan West Bengal & Sikkim.
- ❖ **Light to moderate rainfall** at a few places over Gangetic West Bengal; at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala and Telangana.
- ❖ **Hailstorm** observed at isolated places over Gangetic West Bengal (Durgapur).

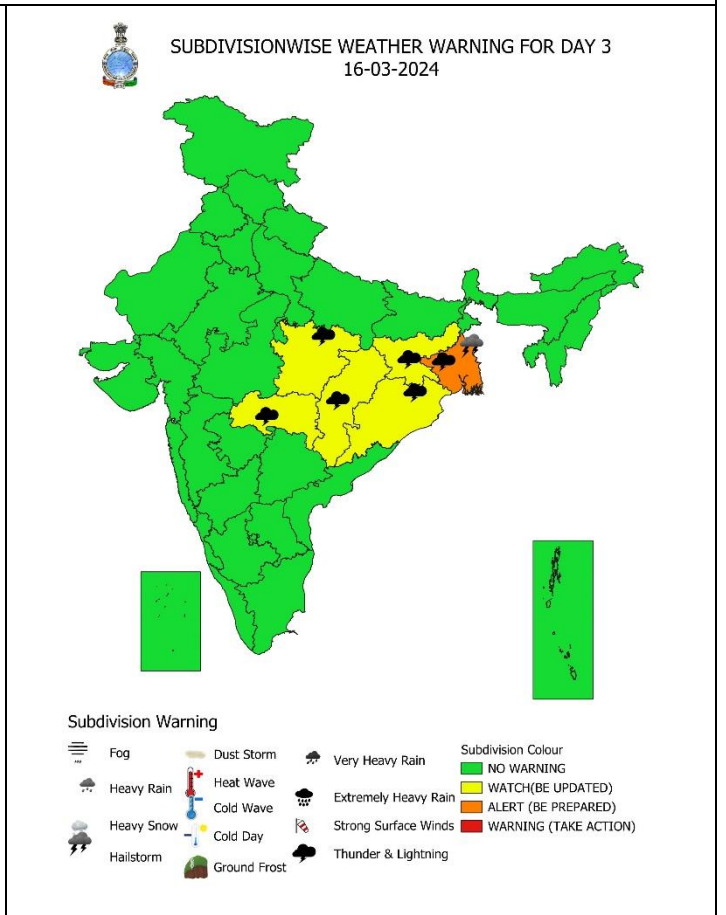
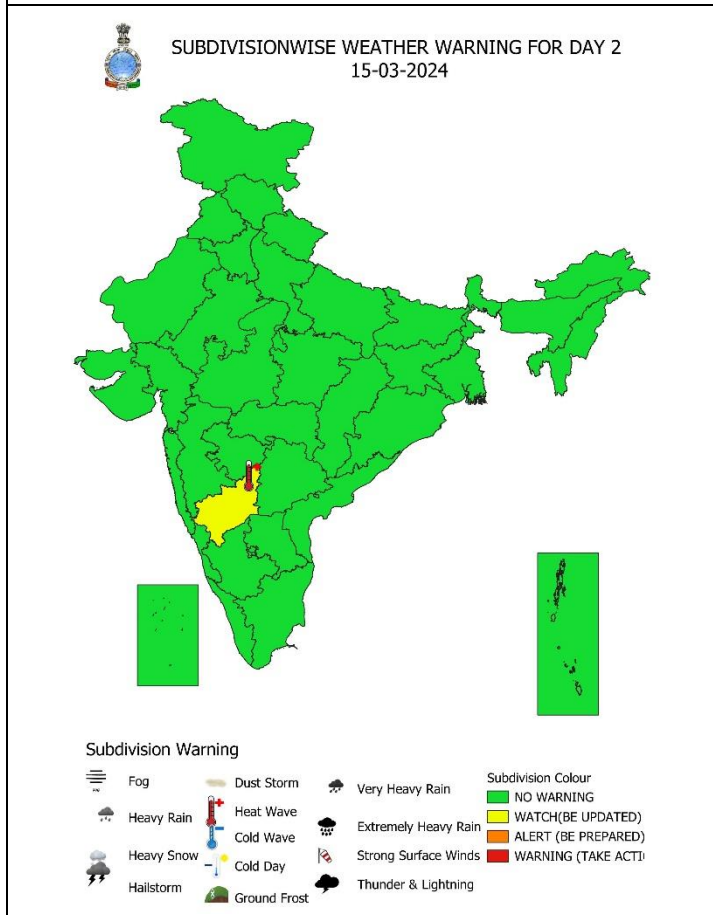
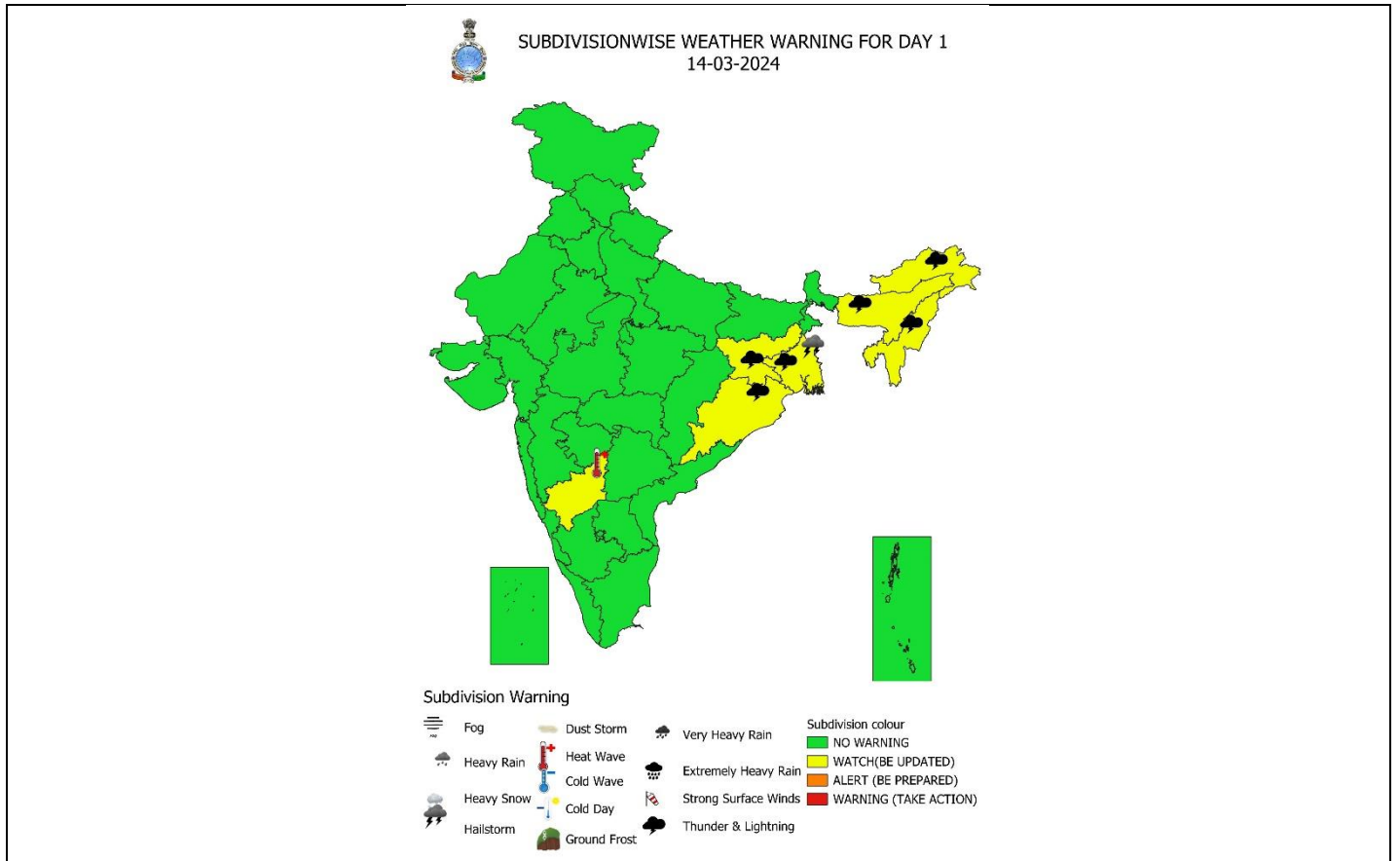
**Weather Systems and Forecast & Warnings: (Annexure I)**

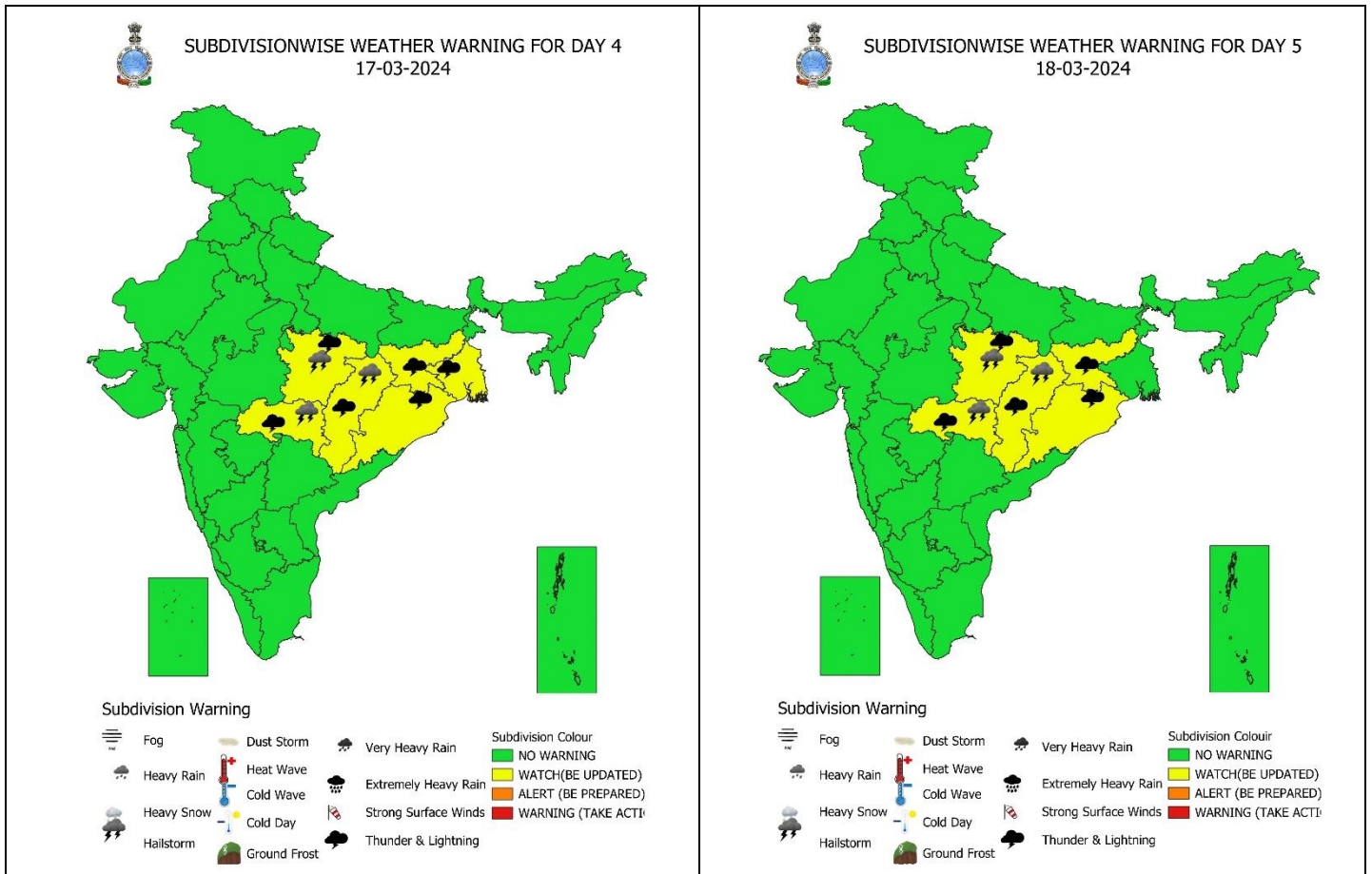
- ❖ A trough runs from Gangetic West Bengal to north Coastal Andhra Pradesh across Odisha in lower tropospheric levels. Under its influence:
  - ✓ Scattered to fairly widespread rainfall with isolated **thunderstorms, lightning & gusty winds (30-40 kmph) very likely over Gangetic West Bengal during 14<sup>th</sup> - 19<sup>th</sup> March. Isolated hailstorm also likely over Gangetic West Bengal on 14<sup>th</sup> & 16<sup>th</sup> March.**
  - ✓ Isolated light to moderate rainfall with **thunderstorms, lightning & gusty winds (30-40 kmph)** over Jharkhand & Odisha during 14<sup>th</sup>-20<sup>th</sup>; over Vidarbha, Chhattisgarh and East Madhya Pradesh during 16<sup>th</sup>-20<sup>th</sup> March, 2024. **Isolated hailstorm also likely over East Madhya Pradesh, Vidarbha, Chhattisgarh on 17<sup>th</sup> & 18<sup>th</sup> march.** Isolated light rainfall/snowfall very likely over Sub-Himalayan West Bengal & Sikkim on 15<sup>th</sup> & 16<sup>th</sup> march, 2024.
- ❖ Isolated to scattered light/moderate rainfall/snowfall very likely over Arunachal Pradesh and Isolated light rainfall over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 14<sup>th</sup>-20<sup>th</sup> March, 2024.

**Maximum temperature forecast:**

- ❖ **Maximum temperatures are above normal by 2-4°C over many parts of south Peninsular India. It is likely to remain same during next 4-5 days.**
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during next 5 days.
- ❖ **Heat wave conditions very likely in isolated pockets of North Interior Karnataka on 14<sup>th</sup> & 15<sup>th</sup> march, 2024.**
- ❖ No significant change in maximum temperatures very likely over Northwest & West India during next 3 days and rise by 2-4°C thereafter.
- ❖ Gradual fall in maximum temperatures by 2-3°C very likely over Odisha during next 5 days.
- ❖ No significant change in maximum temperatures very likely over rest part of the country during next 5 days.

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





**Impact expected and action suggested due to thunderstorm with lightning, gusty winds & Hailstorm:** over Gangetic West Bengal on 14<sup>th</sup> & 16<sup>th</sup> March and over East Madhya Pradesh, Vidarbha, Chhattisgarh on 17<sup>th</sup> & 18<sup>th</sup> 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:**64.5-115.5mm;**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                          |