



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 13th April, 2023
Time of Issue: 1245 hours IST

Subject: Heat wave conditions likely over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh and Bihar.

Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure I

Significant Meteorological features:

- ❖ A **trough/wind discontinuity** runs from east Vidarbha to north coastal Karnataka in lower tropospheric levels.
- ❖ A cyclonic circulation lies over southwest Rajasthan in lower tropospheric levels.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 15th April, 2023.

Maximum Temperatures, Forecast and Heat Wave Warning during next 5 days:

- ❖ **Maximum temperatures** are in the range of 40-42°C over parts of central & north peninsular India. These are above normal by 3-5°C over many parts of Western Himalayan region and Northeast India, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh and Kerala & Mahe.
- ❖ Maximum Temperatures are very likely to be above normal by 3-5°C over Northeast India, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Kerala & Mahe and Madhya Pradesh during next 4-5 days. These are likely to be above normal by 1-3°C over most parts of the rest parts of the country.
- ❖ **Heat wave conditions very likely in isolated pockets over Gangetic West Bengal during 13th-17th; over north coastal Andhra Pradesh & Odisha during 13th-15th April and over Bihar during 15th-17th April, 2023.**

Rainfall Forecast and Warnings (Graphics in Annexure II):

West India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning very likely over Konkan & Goa, Madhya Maharashtra and Marathwada during next 5 days. Isolated **hailstorm** activity very likely over Madhya Maharashtra & Marathwada on 13th & 14th and over south Konkan & Goa on 13th April, 2023.

Northwest India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; isolated to scattered rainfall with thunderstorm/lightning over Himachal Pradesh & Uttarakhand during 15th-17th April.
- ❖ Isolated light rainfall over West Rajasthan on 16th and over Punjab on 17th April, 2023.
- ❖ **Strong surface winds (25-35 kmph)** very likely over Uttar Pradesh on 13th April, 2023.

No significant weather likely over rest parts of the country.

For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

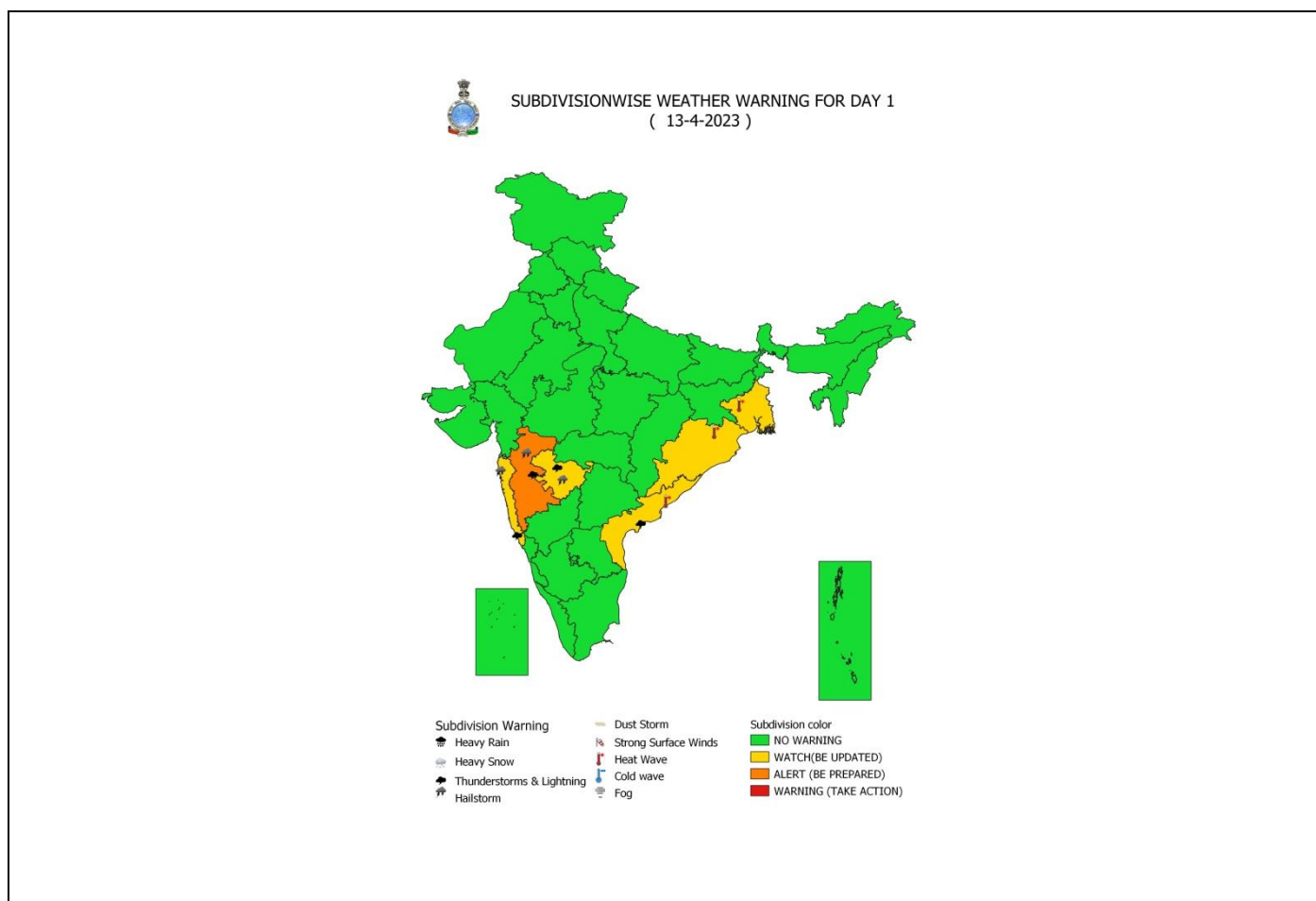
<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Observations:

- ❖ **Rainfall/thundershowers observed: at a few places over** Andaman & Nicobar Islands and **at isolated places** over Uttarakhand, Rajasthan, Haryana, Assam & Meghalaya, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathawada, Kerala, Coastal Andhra Pradesh and Telangana.
- ❖ **Thunderstorm observed** at isolated places over West Madhya Pradesh, Madhya Maharashtra and East Rajasthan.
- ❖ Yesterday, **Heat wave** prevailed at isolated places over Gangetic West Bengal.

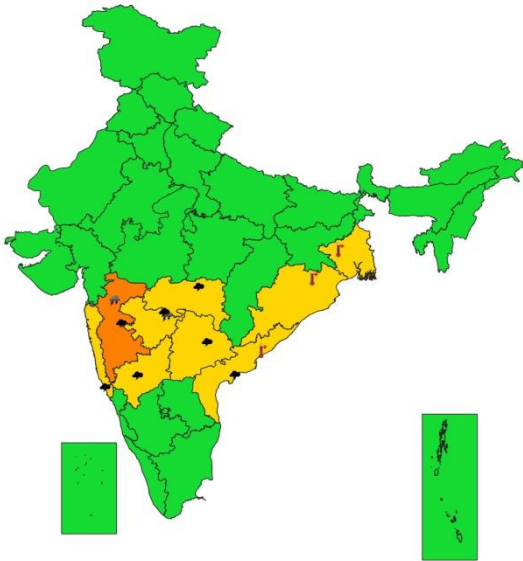
Annexure II**Agromet advisories for rainfall accompanied with thunderstorms/gusty winds and hailstorms likely over various parts of the country (Based on the IBF and advisories issued by different AMFUs and DAMUs)**

- Undertake harvesting of grapes, sapota and citrus in Marathwada and onion, grapes and pomegranate in Madhya Maharashtra as early as possible and keep the harvested produce at safer places.
- Use hail nets to protect orchards in Madhya Maharashtra and Marathwada.
- Provide mechanical support to horticultural crops and staking to vegetables in Konkan and Madhya Maharashtra.
- Provide light and frequent irrigation to crops in Odisha, Gangetic West Bengal and North Coastal Andhra Pradesh during morning and evening hours.





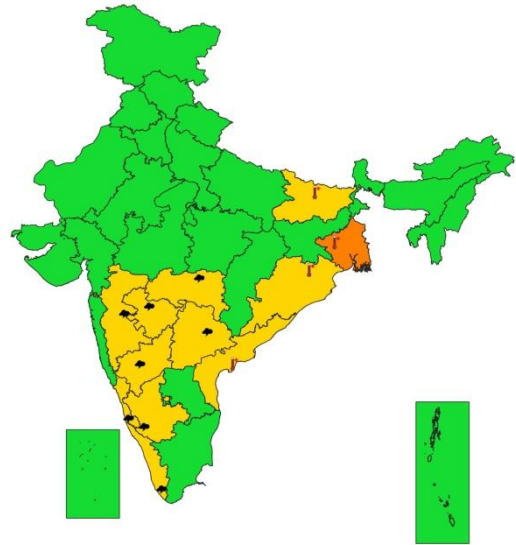
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(14-4-2023)**



- | | | |
|-----------------------------|-------------------------|--------------------------|
| 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) |



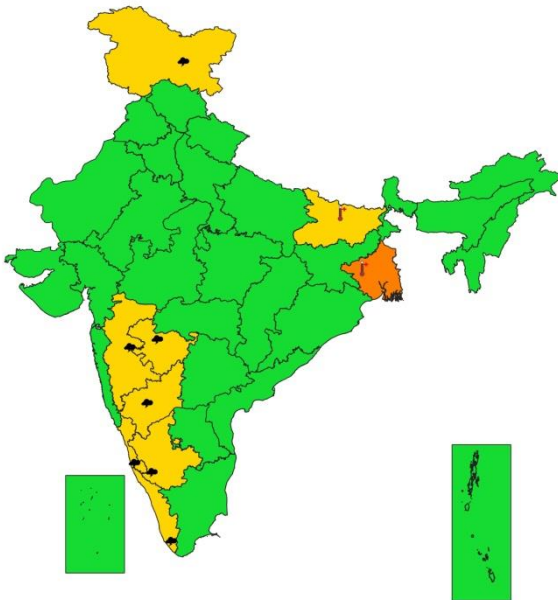
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(15-4-2023)**



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|-----------------------------|-------------------------|--------------------------|
| 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) |



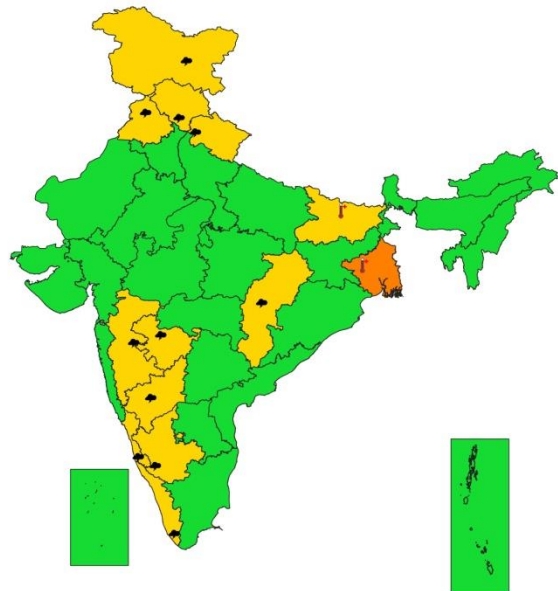
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(16-4-2023)**



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|-----------------------------|-------------------------|--------------------------|
| 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) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(17-4-2023)**



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|-----------------------------|-------------------------|--------------------------|
| 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) |














Legends:

❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.

❖ **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-Himalaya 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, Tamilnadu, 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