



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 17th May, 2023
Time of Issue: 1300 hours IST**

**Subject: (i) Heat Wave conditions over coastal Andhra Pradesh, Jharkhand, Gangetic West Bengal today and over Rajasthan & south Uttar Pradesh on 20th & 21st May, 2023.
(ii) Heavy rainfall spell over Northeastern states during next 5 days.**

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

- Southwest Monsoon is very likely to advance into some parts of South Bay of Bengal, South Andaman Sea and Nicobar islands during next 2 days.

Significant Meteorological features:

- ❖ A Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and another as a trough in middle & upper tropospheric westerlies runs along Long. 55°E to the north of Lat. 28°N.
- ❖ A trough runs from north Bihar to central Chhattisgarh in lower tropospheric levels.
- ❖ A trough/Wind discontinuity runs from coastal Andhra Pradesh to south Tamil Nadu in lower tropospheric levels.

Forecast and warning over the country during next 5 days:

Northeast India:

- ❖ Light/moderate widespread rainfall very likely to continue over Northeast India during next 5 days with **heavy rainfall** at isolated places over Arunachal Pradesh during 19th-21st; Assam & Meghalaya and Manipur, Mizoram & Tripura during 17th to 21st May and isolated **very heavy falls** also likely over Meghalaya on 17th & 18th May, 2023.

Northwest India:

- ❖ **Duststorm/dust raising winds** very likely in isolated pockets over Haryana, Delhi, West Uttar Pradesh today and Rajasthan on 17th & 18th May, 2023.

East India:

- ❖ Light/moderate isolated to scattered rainfall very likely over East India during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 17th & 18th May.
- ❖ **Hailstorm** likely at isolated places over Gangetic West Bengal on 17th May.

South India:

- ❖ Light/moderate isolated to scattered rainfall very likely over extreme south Peninsular India during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu and Kerala on 17th May.

No significant weather likely over rest parts of the country.

Observed Maximum Temperatures and Heat Wave conditions:

- ❖ Yesterday, Maximum Temperatures were in the range of 40-43°C over most parts of Northwest, Central, East and north Peninsular India.
- ❖ Maximum Temperatures were above normal by 3-5°C over many parts of coastal Andhra Pradesh and Jharkhand and 2-4°C in isolated parts of West Bengal, Bihar, Odisha, Tamilnadu & Kerala and near normal over rest parts of the country.
- ❖ Yesterday, **Heat wave to severe heat wave conditions** prevailed in isolated pockets over Coastal Andhra Pradesh.

Maximum Temperatures, its Forecast and Heat Wave Warnings (Graphics in Annexure II):

- ❖ No significant change in Maximum temperatures are very likely over many parts of Northwest & Central India during next 48 hours and rise by 2-3°C thereafter. No significant change in maximum temperature very likely over rest parts of the country except coastal Andhra Pradesh, where these are likely to fall by 2-3°C after 24 hours.
- ❖ **Heat wave conditions** in isolated pockets very likely over Coastal Andhra Pradesh, Jharkhand, Gangetic West Bengal on 17th May; over Rajasthan and south Uttar Pradesh on 20th & 21st May.
- ❖ Due to humid air and high temperature, **Hot and Discomfort weather** is very likely over Konkan & Goa during next 5 days; over Rayalaseema, Kerala and Tamilnadu on 17th & 18th; Coastal Andhra Pradesh on 18th & 19th May.

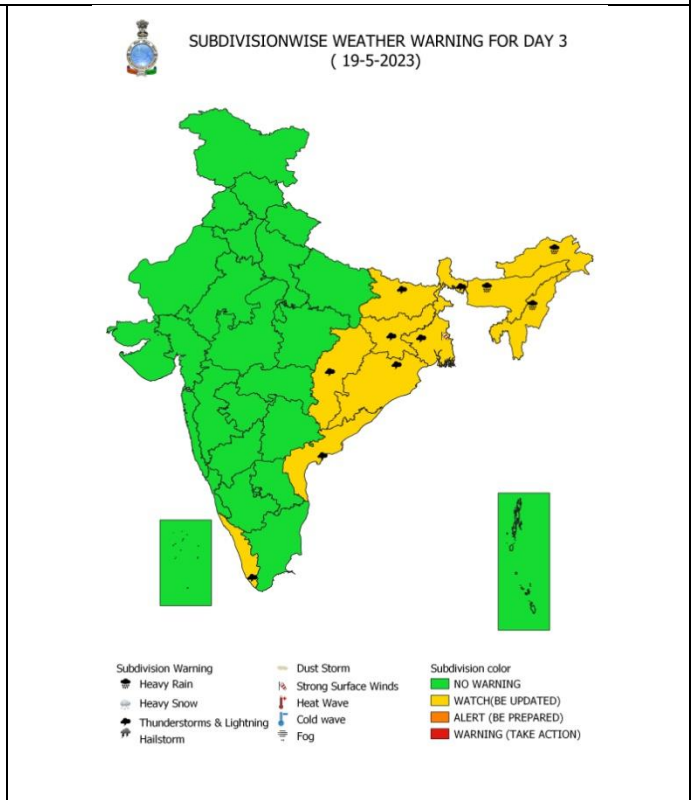
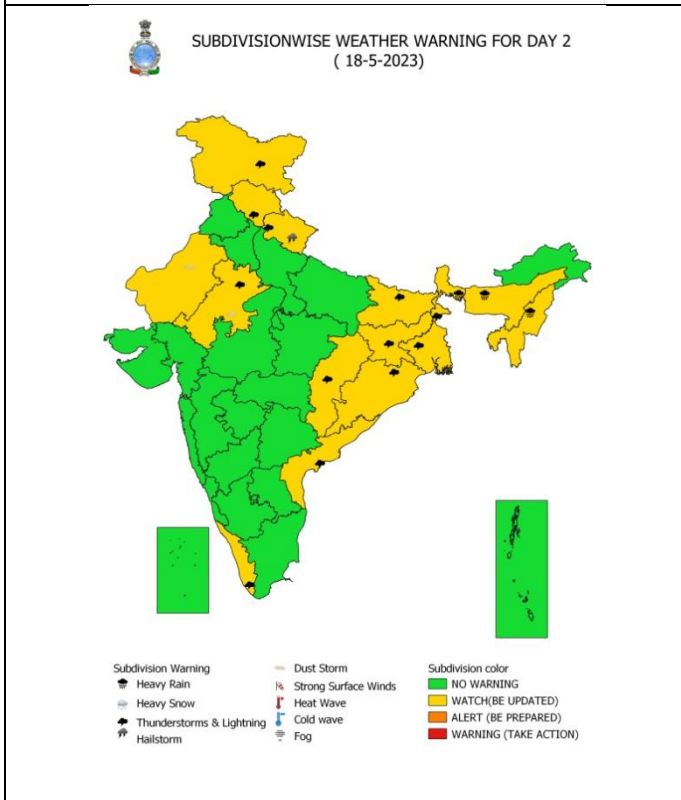
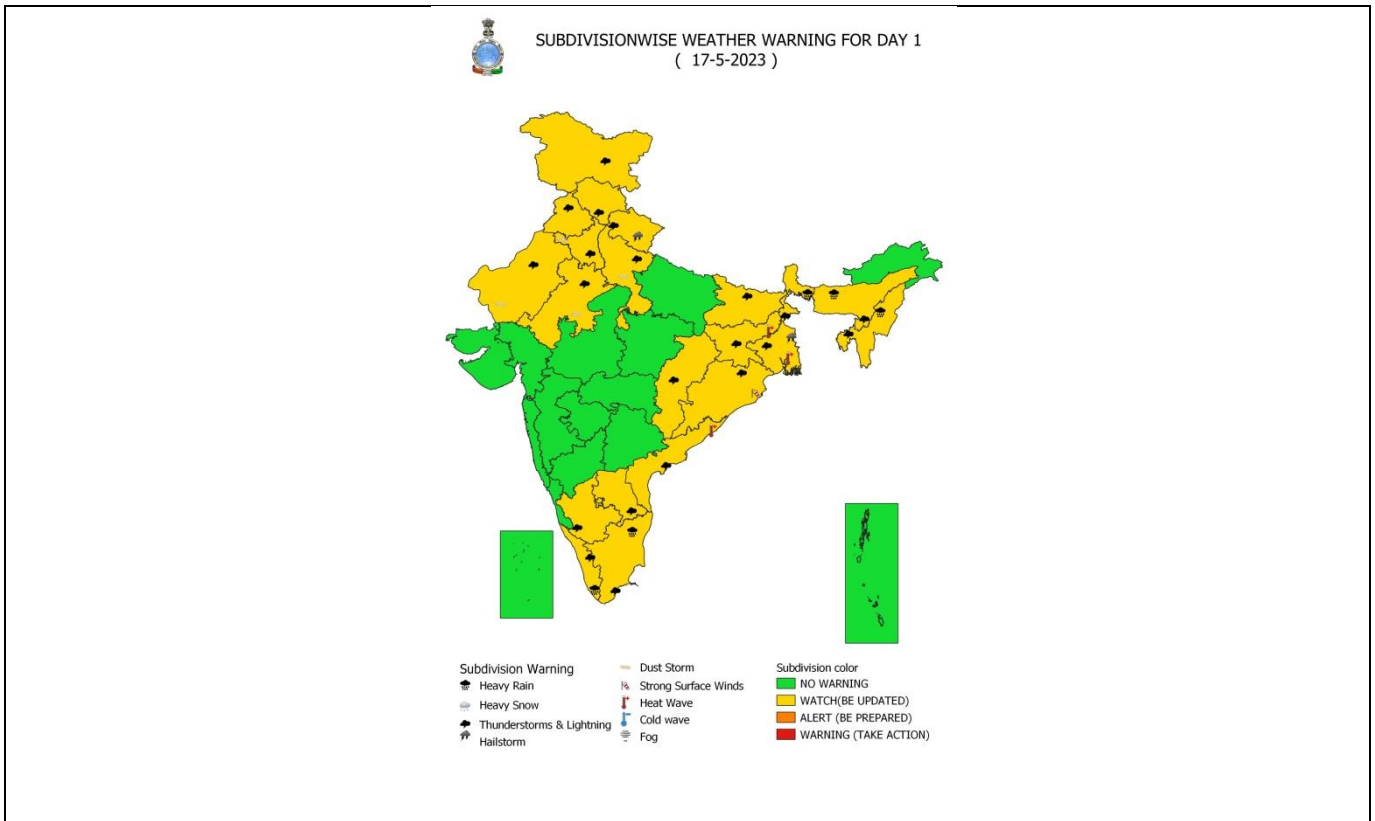
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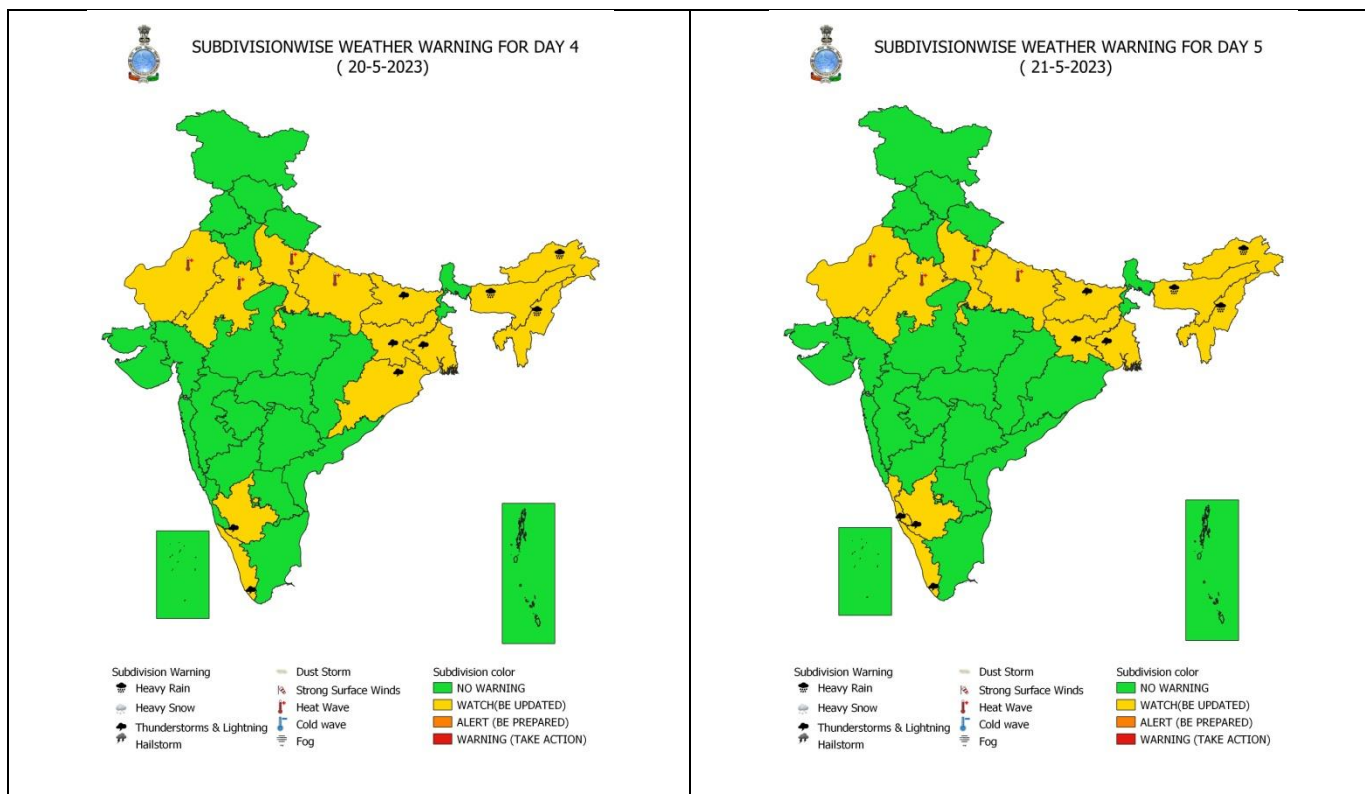
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<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- **Rainfall/thundershowers observed at most places** over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **at many places** over Nagaland, Manipur, Mizoram & Tripura; **at a few places** over Andaman & Nicobar Islands and **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Jharkhand, Odisha, Bihar, Gangetic West Bengal, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala.
- **Significant rainfall recorded** (in cm): **Assam:** Neamatighat (dist Jorhat) 8, Bely Rly. bridge (dist Barpeta) 7, Barpeta (dist Barpeta) 7, Dillighat (dist Dibrugarh) 6, Williamnagar (dist East Garo Hills) 6, Hazuah (dist Barpeta) 6, Tamulpur Arg (dist Baksa) 6, Tamulpur (dist Baksa) 6; **Nagaland, Manipur, Mizoram & Tripura:** Saiha_ Saiha_ Aws (dist Saiha) 5, Saiha (dist Saiha) 4, Lawngtlai (dist Lawngtlai) 4, **Sub-Himalayan West Bengal & Sikkim:** Cooch Behar-7, Jalpaiguri-6, **Odisha:** Kamakhyanagar (dist Dhenkanal) 7, Kaptipada (dist Mayurbhanj) 4, **East Madhya Pradesh:** Barghat (dist Seoni) 4, **Tamil Nadu:** Uthagamandalam (dist Nilgiris) 2, **Coastal Andhra Pradesh:** Ichchapuram (dist Srikakulam) 2, Vizianagaram (dist Vizianagaram) 2, Gantyada (dist Vizianagaram) 2,
- **Heavy rainfall** observed at isolated places over Odisha, Assam and Sub-Himalayan West Bengal.
- **Duststorm/thunderstorm** observed at isolated places over West Rajasthan.
- **Hailstorm** observed at isolated places over West Madhya Pradesh.





IMPACT & ACTION SUGGESTED due to Heat Wave:

❖ Yellow alert Areas:

- (1) Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- (2) Avoid heat exposure, Wear lightweight, light coloured, loose, cotton clothes, Cover your head, use a cloth, hat or umbrella.














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 | | Subdivision color | |
|---|--|---|--|
|  Heavy Rain |  Dust Storm |  NO WARNING | |
|  Heavy Snow |  Strong Surface Winds |  WATCH(BE UPDATED) | |
|  Thunderstorms & Lightning |  Heat Wave |  ALERT (BE PREPARED) | |
|  Hailstorm |  Cold wave |  WARNING (TAKE ACTION) | |
| |  Fog | | |

| Probabilistic Forecast | |
|------------------------|-------------------------------|
| Terms | Probability of Occurrence (%) |
| Unlikely | < 25 |
| Likely | 25 - 50 |
| Very Likely | 50 - 75 |
| Most Likely | > 75 |