



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

**Press Release
Date: 18th May, 2023
Time of Issue: 1330 hours IST**

**Subject: (i) Heat Wave conditions over south Uttar Pradesh, West Rajasthan & north Madhya Pradesh during 20th to 22nd 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 48 hours.

Significant Meteorological features:

- ❖ The **Western Disturbance** as a trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 68°E to the north of Lat. 28°N.
- ❖ A **cyclonic circulation** lies over Punjab & adjoining central Pakistan, other over south Pakistan & adjoining southwest Rajasthan and another over East Uttar Pradesh in lower tropospheric levels.
- ❖ A **trough** runs from above cyclonic circulation over East Uttar Pradesh to Telangana in lower tropospheric levels.
- ❖ A trough in westerlies now runs roughly along Long. 90°E to the north of Lat. 22°N at 1.5 km above mean sea level.

Forecast and warning over the country during next 5 days:

Northeast India:

- ❖ Light/moderate widespread rainfall with thunderstorm/lightning/gusty winds very likely to continue over Northeast India during next 5 days with **heavy rainfall** at isolated places over Assam & Meghalaya during 18th to 22nd and Nagaland, Manipur, Mizoram & Tripura on 18th & 19th. Isolated **very heavy falls** also likely over Assam & Meghalaya on 18th May, 2023.

East India:

- ❖ Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 18th May.

Northwest India:

Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Western Himalayan Region and isolated light rainfall with thunderstorm/gusty winds over adjoining plains today, the 18th. Isolated **hailstorm** also very likely over Uttarakhand today, the 18th May, 2023.

- ❖ **Duststorm/dust raising winds** very likely in isolated pockets over Uttar Pradesh on 18th and over Rajasthan on 22nd May, 2023.

Central India:

- ❖ Light/moderate isolated light rainfall with thunderstorm/lightning/gusty winds very likely over Madhya Pradesh, Vidarbha & Chhattisgarh on 18th & 22nd May, 2023.

South India:

- ❖ Light/moderate isolated light rainfall with thunderstorm/lightning/gusty winds very likely over most parts of the region during next 5 days.

Observed Maximum Temperatures and Heat Wave conditions:

- ❖ Yesterday, Maximum Temperatures were in the range of 40-44°C over many parts of Northwest, Central, East & north Peninsular India.
- ❖ Maximum Temperatures were above normal by 2-4°C over some/many parts of East & Peninsular India and near normal or below normal over rest parts of the country.
- ❖ Yesterday, **Heat wave conditions** prevailed in isolated pockets over Jharkhand, Gangetic West Bengal & Coastal Andhra Pradesh.

Maximum Temperature Forecast and Heat Wave Warnings (Graphics in Annexure II):

- ❖ Maximum temperatures are very likely to rise by 2-3°C over Maharashtra during next 5 days. No significant change in Maximum temperatures are very likely over many parts of Northwest & Central India during next 48 hours and rise by 2-4°C thereafter. No significant change in maximum temperature very likely over rest parts of the country during next 5 days.
- ❖ **Heat wave conditions** in isolated pockets very likely over south Uttar Pradesh, West Rajasthan and north Madhya Pradesh during 20th to 22nd May, 2023.
- ❖ Due to humid air & high temperature, **Hot and Discomfort weather** is very likely over Bihar, Jharkhand, Odisha and Konkan & Goa during next 5 days and over Coastal Andhra Pradesh, Rayalaseema, Kerala and Tamilnadu during 18th to 20th May, 2023.

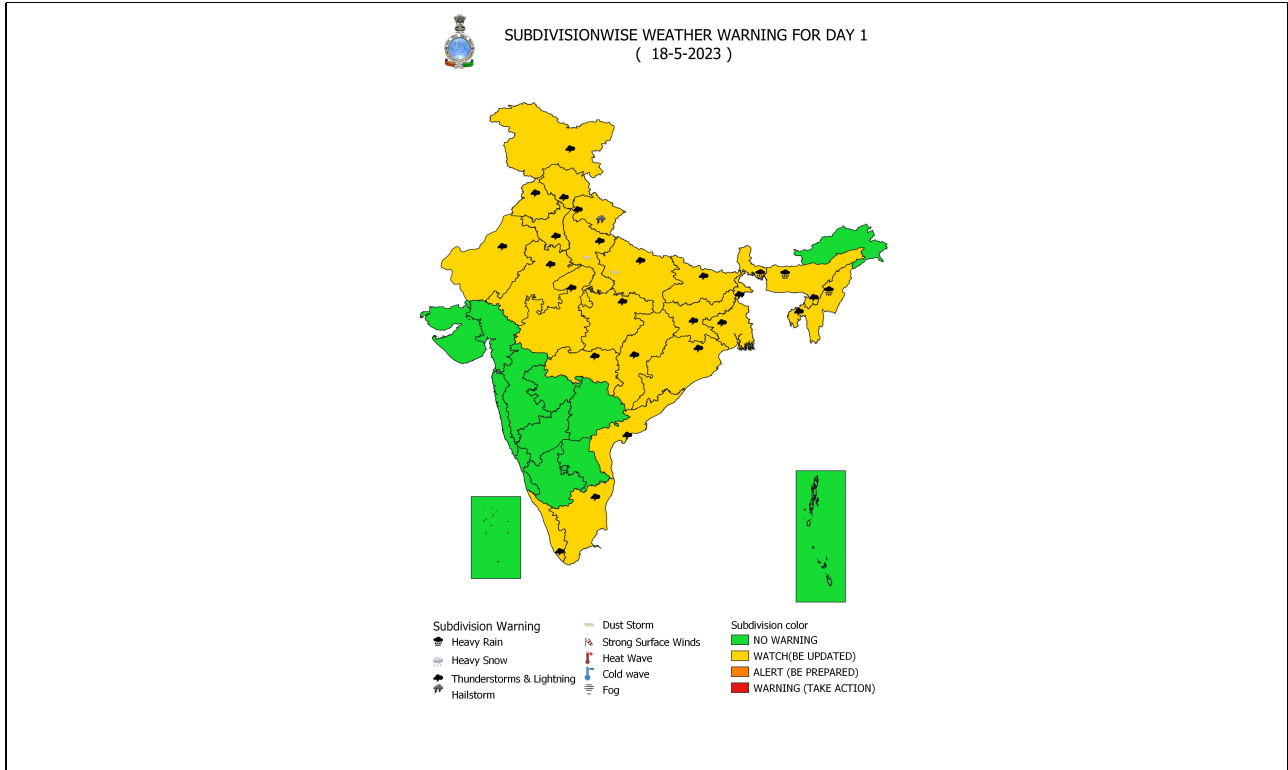
For more details kindly refer:

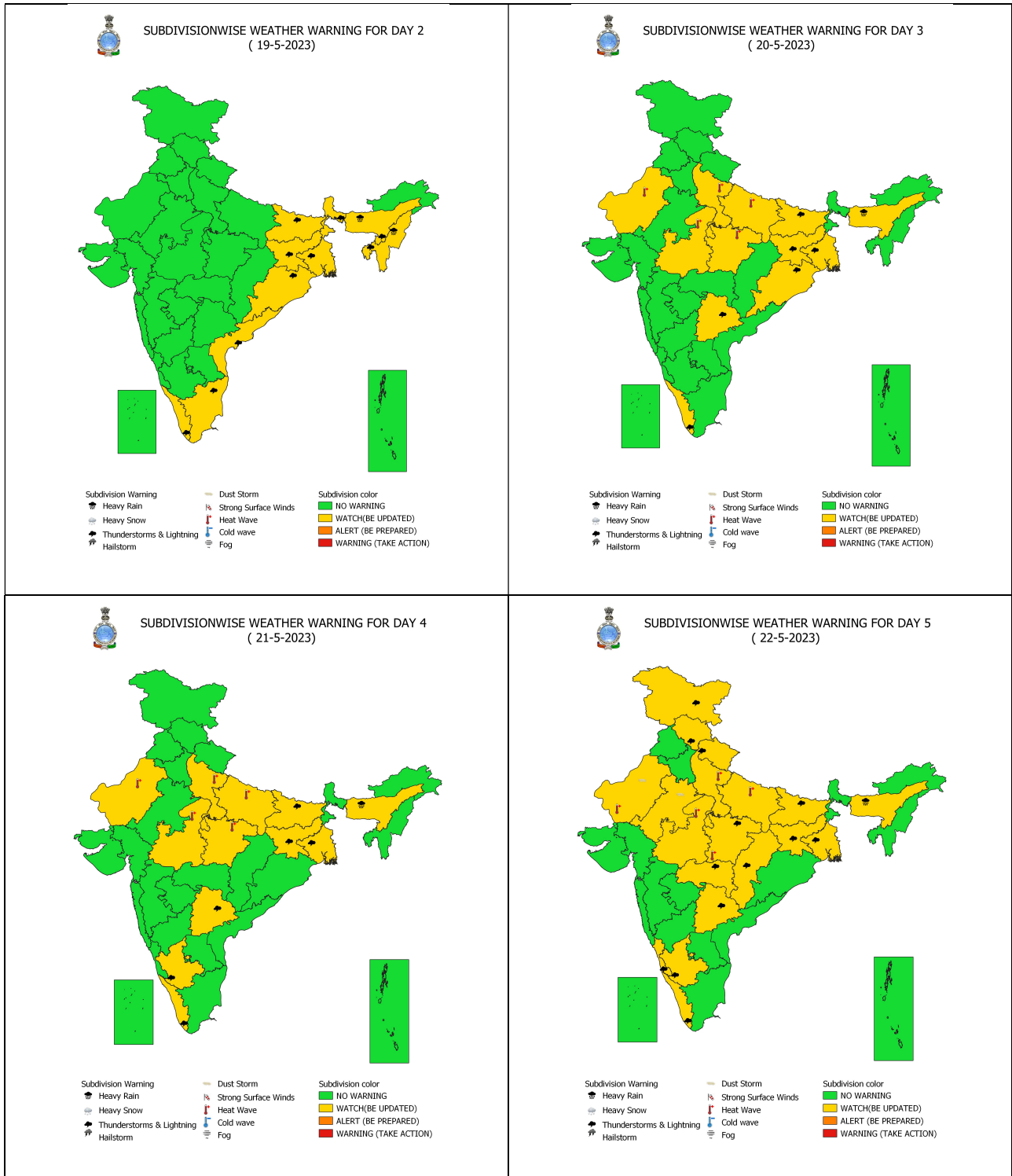
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

<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 Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **at many places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; **at a few places** over Uttarakhand, East Rajasthan, Bihar and Kerala & Mahe and **at isolated places** over Himachal Pradesh, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Gujarat State, Coastal Andhra Pradesh, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.
- **Significant rainfall recorded** (in cm): **SUB-HIMALAYAN WEST BENGAL & SIKKIM:** North Sikkim 6, Malda 5, Jalpaiguri 4, **UTTARAKHAND:** Landsdown (dist Pauri Garhwal) 4, **KERALA:** Punalur (Kollam district) 5, **TAMILNADU:** Amaravathy Dam (dist Tiruppur) 3, Thodupuzha (Idukki district) 4, Anchal ARG (Kollam district) 3, **SOUTH INTERIOR KARNATAKA:** Napoklu (dist Kodagu) 3, **COASTAL ANDHRA PRADESH:** Palasa (dist Srikakulam) 3, **HIMACHAL PRADESH:** Sirmaur 3, **WEST RAJASTHAN:** Sadulsahar Sr (dist Sri Ganganagar) 5, Pilibanga Sr (dist Hanumangarh) 3, **HARYANA:** Karnal (dist Karnal) 3, Rai Rev (dist Sonapat) 3, **ORISSA:** Chandrapur (dist Rayagada) 5, Nuagada (dist Gajapati) 4, Paralakhemundi (dist Gajapati) 3, **GANGETIC WEST BENGAL:** Murshidabad 4.
- **Hailstorm** observed at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Bihar and Jharkhand.
- **Squall** observed at isolated places over West Rajasthan.
- **Heat wave conditions** observed in isolated pockets over Jharkhand, Gangetic West Bengal and Coastal Andhra 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	 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