



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

**Press Release  
Date: 28<sup>th</sup> May, 2023  
Time of Issue: 1300 hours IST**

**Subject: Rain and Thunderstorms likely to continue over Northwest India till 31<sup>st</sup> May with peak activity on 29<sup>th</sup> & 30<sup>th</sup> May due to a fresh approaching Western Disturbance on night of 29<sup>th</sup> May**

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

**Advance of southwest monsoon:**

- ❖ The Northern Limit of Southwest Monsoon continues to pass through 5°N/85°E, 6.5°N/90°E, Nancowry and 10°N/98°E (**Annexure II**).
- ❖ Conditions are favourable for further advance of southwest monsoon into some more parts of south Bay of Bengal, Andaman Sea and Andaman & Nicobar Islands during next 2 days.

**Significant Meteorological features:**

- ❖ A fresh Western Disturbance is likely to affect Northwest India from 29<sup>th</sup> May, 2023.
- ❖ A cyclonic circulation lies over southwest Rajasthan and a trough runs from this system to Northeast Madhya Pradesh in lower tropospheric levels.
- ❖ A trough runs from southeast Madhya Pradesh to south Tamil Nadu in lower tropospheric levels

**Forecast and warning over the country during next 5 days:**

**Northwest India:**

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm, lightning & occasional gusty winds/squall very likely over Northwest India during 28<sup>th</sup>-31<sup>st</sup> May with peak activity on 29<sup>th</sup> & 30<sup>th</sup> May and reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over northwest Rajasthan during 28<sup>th</sup>-30<sup>th</sup> May; Jammu division, Himachal Pradesh on 29<sup>th</sup> & 30<sup>th</sup> and Uttarakhand on 29<sup>th</sup> May.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over West Uttar Pradesh on 28<sup>th</sup> & 29<sup>th</sup>; Rajasthan during 28<sup>th</sup>-30<sup>th</sup> May and Haryana, Delhi & Uttarakhand on 29<sup>th</sup> May.
- ❖ **Heavy rainfall** very likely at isolated places over north Rajasthan on 28<sup>th</sup> & 29<sup>th</sup> May.

**Central India:**

- ❖ Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over Madhya Pradesh during next 3 days and reduction thereafter.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** very likely at isolated places over Madhya Pradesh on 28<sup>th</sup> & 29<sup>th</sup> and Chhattisgarh on 28<sup>th</sup> May.
- ❖ **Hailstorm** very likely at isolated places over north Madhya Pradesh on 28<sup>th</sup> May.

### South India:

- ❖ Light/moderate fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep and scattered rainfall over South Interior Karnataka, Tamilnadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu on 27<sup>th</sup>, 31<sup>st</sup> May & 01<sup>st</sup> June, Kerala on 28<sup>th</sup>, 29<sup>th</sup>, 31<sup>st</sup> May & 01<sup>st</sup> June and over South Interior Karnataka during 31<sup>st</sup> May & 01<sup>st</sup> June.

**No significant weather is likely over rest parts of the country during next 5 days.**

### Observed Maximum Temperatures and Heat Wave conditions:

- ❖ Yesterday, Maximum Temperatures were in the range of 40-42°C over many parts of Vidarbha, Telangana, Andhra Pradesh; some parts of Gujarat state, West Rajasthan, East Madhya Pradesh, Chhattisgarh and interior Odisha and below 40°C over rest parts of the country.
- ❖ Maximum Temperatures were below normal by 6-8°C over parts of north Rajasthan, Punjab, Haryana, Uttar Pradesh; by 2-4°C over Madhya Pradesh, Bihar, north Chhattisgarh & parts of northeast India and near normal over rest parts of the country.

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

- ❖ Rise by 4-6°C in maximum temperatures very likely over East Uttar Pradesh during next 5 days. Rise by 2-4°C in maximum temperatures very likely over East India and Maharashtra during next 5 days. No significant change in maximum temperature very likely over rest parts of the country during next 5 days.
- ❖ No heat wave conditions very likely in any parts of the country during next 5 days.
- ❖ Due to humid air & high temperature, **Hot and Discomfort weather** is very likely over Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal on 28<sup>th</sup> & 29<sup>th</sup> May, 2023.

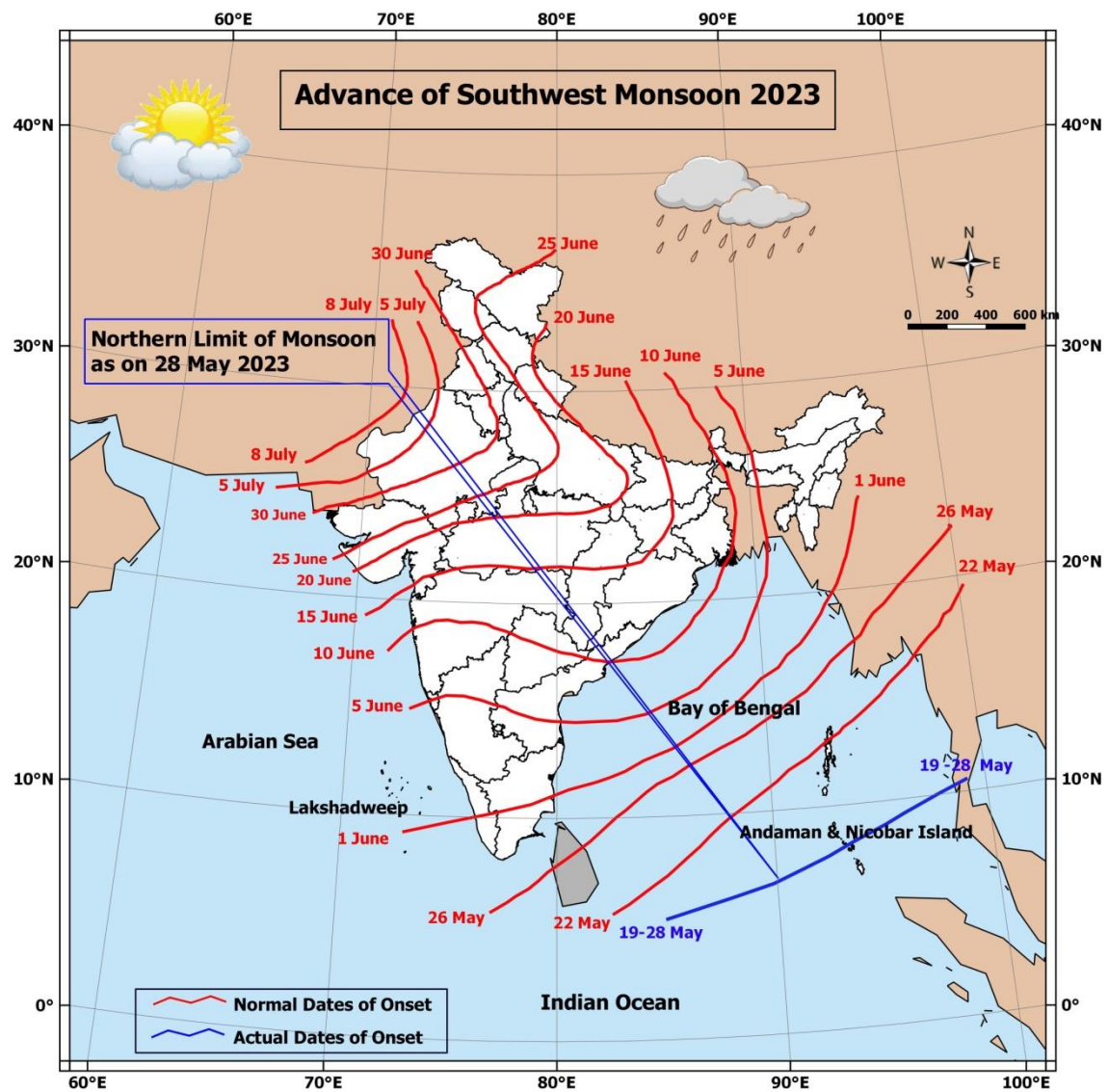
For more details kindly refer:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

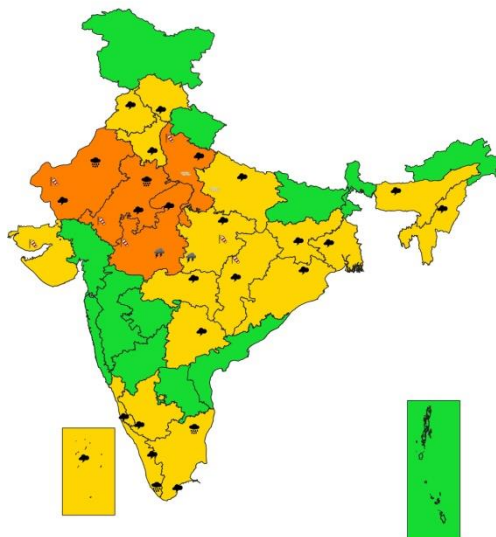
**Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- **Rainfall/thundershowers** observed **at most places** over Nagaland, Manipur, Mizoram & Tripura, Sub- Himalayan West Bengal & Sikkim; **at many places** over Arunachal Pradesh, Assam & Meghalaya; Gangetic West Bengal, Uttar Pradesh, East Rajasthan, Chhattisgarh, Kerala, Lakshadweep; **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Rajasthan, Madhya Pradesh, Vidarbha, Gujarat region, Marathwada, Karnataka, Tamilnadu, Puducherry & Karaikal, Telangana, Rayalaseema, and Coastal Andhra Pradesh and Andaman & Nicobar Islands.
- **Heavy Rainfall** observed at isolated places over Meghalaya, Tripura, Tamil Nadu and Chhattisgarh.
- **Significant rainfall recorded** (in cm): **Tamil Nadu:** Valparai PTO (dist Coimbatore) 8, Valparai PAP (dist Coimbatore), Valparai Taluk Office (dist Coimbatore) 7 each, Natham (dist Dindigul) 5, **Kerala:** Kodungallur (Thrissur district) 5, **Assam & Meghalaya:** Williamnagar (dist East Garo Hills) 9, Bhaghmara (dist South Garo Hills) 3, Dhekiajuli (dist Shonitpur) 3, Dhekiajuli Arg (dist Shonitpur) 3, **Tripura:** Kailashahar Aero (dist Unakoti) 10, Sonamura (dist Sipahijala) 3, **Chhattisgarh:** Pendra Road (dist Bilaspur) 7, Bhaiyathan (dist Surajpur) 3, Pendra (dist Bilaspur) 3, **Madhya Pradesh:** Vijaypur (adp) (dist Sheopur) 4, Venkatnagar (dist Anuppur) 3, Patan (dist Jabalpur) 3, **East Rajasthan:** Nasirabad (dist Ajmer) 3, Vijaynagar Sr (dist Ajmer) 3, Todabhim (dist Karauli) 3, Ajmer (dist Ajmer) 3, Gegal Sr (dist Ajmer) 3, Jaipur Aero (dist Jaipur) 3; **Odisha:** Aska (dist Ganjam) 6, Dharakote (dist Ganjam) 5, Hinjili (dist Ganjam) 4, Ghasipura (dist Keonjhar) 4, Buguda (dist Ganjam) 4, Udala (dist Mayurbhanj) 4,; **Sub-Himalayan West Bengal:** Jalpaiguri-5.
- **Hailstorm** observed at isolated places over Himachal Pradesh, Uttar Pradesh, Odisha, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **Thundersquall speed reaching 65-85 kmph** reported at isolated places over East Uttar Pradesh and East Madhya Pradesh.





### SUBDIVISIONWISE WEATHER WARNING FOR DAY 1 ( 28-5-2023 )



Subdivision Warning

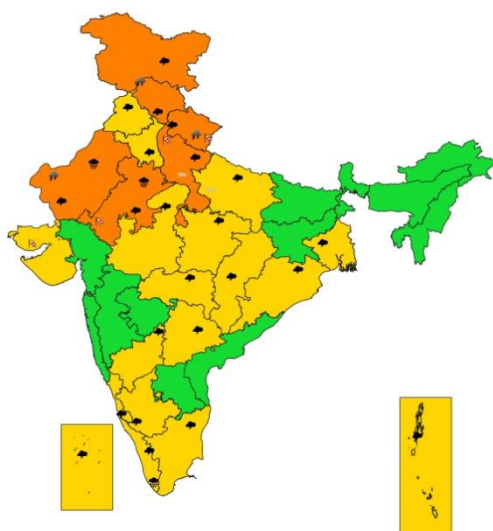
- ☁ Heavy Rain
- ❄ Heavy Snow
- ⚡ Thunderstorms & Lightning
- 🌧 Hailstorm
- 🌪 Dust Storm
- 🌬 Strong Surface Winds
- 🔥 Heat Wave
- ❄ Cold wave
- 🌫 Fog

Subdivision color

- 🟢 NO WARNING
- 🟡 WATCH (BE UPDATED)
- 🟠 ALERT (BE PREPARED)
- 🔴 WARNING (TAKE ACTION)



### SUBDIVISIONWISE WEATHER WARNING FOR DAY 2 ( 29-5-2023 )



Subdivision Warning

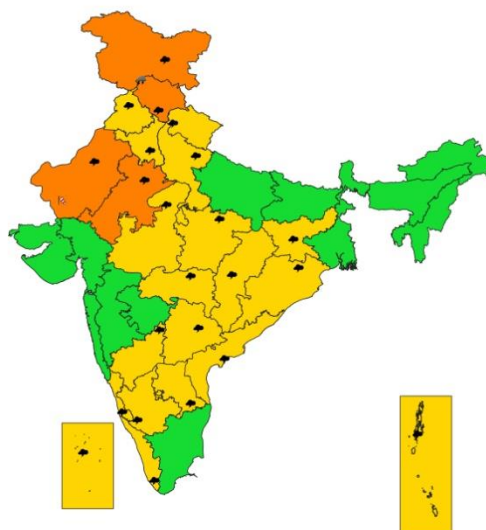
- ☁ Heavy Rain
- ❄ Heavy Snow
- ⚡ Thunderstorms & Lightning
- 🌧 Hailstorm
- 🌪 Dust Storm
- 🌬 Strong Surface Winds
- 🔥 Heat Wave
- ❄ Cold wave
- 🌫 Fog

Subdivision color

- 🟢 NO WARNING
- 🟡 WATCH (BE UPDATED)
- 🟠 ALERT (BE PREPARED)
- 🔴 WARNING (TAKE ACTION)



### SUBDIVISIONWISE WEATHER WARNING FOR DAY 3 ( 30-5-2023 )



Subdivision Warning

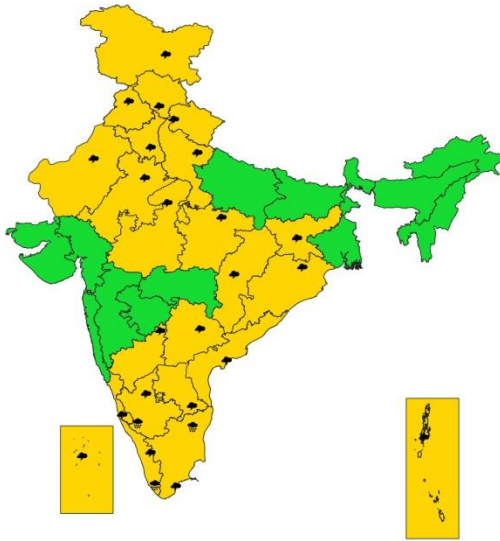
- ☁ Heavy Rain
- ❄ Heavy Snow
- ⚡ Thunderstorms & Lightning
- 🌧 Hailstorm
- 🌪 Dust Storm
- 🌬 Strong Surface Winds
- 🔥 Heat Wave
- ❄ Cold wave
- 🌫 Fog

Subdivision color

- 🟢 NO WARNING
- 🟡 WATCH (BE UPDATED)
- 🟠 ALERT (BE PREPARED)
- 🔴 WARNING (TAKE ACTION)



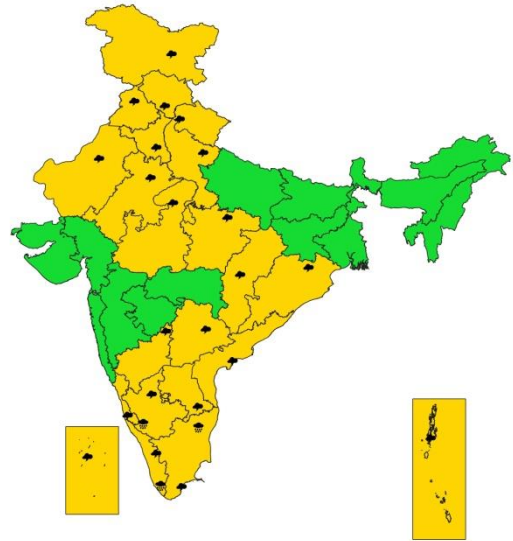
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
( 31-5-2023)



- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| 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 RAINFALL FORECAST FOR DAY 5  
( 1-6-2023)



- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| 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)    |



**Impact expected and action suggested due to isolated thunder squall with lightning/gusty winds & Hailstorm over**

**28<sup>th</sup> May:** Rajasthan, Madhya Pradesh, Chhattisgarh

**29<sup>th</sup> May:** Jammu division, Himachal Pradesh, Uttarakhand, Haryana, Delhi, West Uttar Pradesh, Rajasthan

**30<sup>th</sup> May:** Rajasthan, Jammu division, Himachal Pradesh

**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.

**Agromet advisories for rainfall, thunderstorms/gusty winds and heat wave likely over various parts of the country (Based on the IBF and advisories issued by different AMFUs and DAMUs)**

- Make necessary arrangement for draining out excess water from crop fields to avoid water stagnation in Rajasthan, North-Eastern states, Chhattisgarh, Tamil Nadu and Kerala.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchards in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Rajasthan and Madhya Pradesh.














## 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