



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

**Press Release  
Date: 24<sup>th</sup> May, 2023  
Time of Issue: 1330 hours IST**

**Subject: (i) Wet spell over northwest India due to an active Western Disturbance till 26<sup>th</sup> May with peak intensity on 24<sup>th</sup> & 25<sup>th</sup> May.  
(ii) Enhanced rainfall/thunderstorm activity over east and northeast India during till 26<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 cyclonic circulation lies over north Pakistan in lower tropospheric levels.
- ❖ A Trough runs from northwest Uttar Pradesh to West Bengal coast in lower tropospheric levels.
- ❖ These systems are likely to move across Northwest India during 23<sup>rd</sup> to 26<sup>th</sup> May.
- ❖ It will be accompanied by moisture supply from Arabian Sea to northwest India during the same period.
- ❖ A cyclonic circulation lies over Jharkhand & neighbourhood and another cyclonic circulation lies over east Bangladesh & neighbourhood in lower tropospheric levels.
- ❖ Strong southwesterly winds from Bay of Bengal to northeast India are prevailing at lower tropospheric levels.

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

**Northwest India:**

- ❖ Light/moderate rainfall at most places with thunderstorm, lightning & occasional gusty winds/squall very likely over Western Himalayan Region and rainfall at many places with thunderstorm, lightning & occasional gusty winds/squall very likely over plains of Northwest India mainly during 24<sup>th</sup> to 26<sup>th</sup> May with maximum intensity on 24<sup>th</sup> & 25<sup>th</sup> May.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and north Rajasthan on 24<sup>th</sup> & 25<sup>th</sup> May.
- ❖ **Heavy rainfall** very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and northeast Rajasthan on 24<sup>th</sup> and **moderate to heavy rainfall** over

Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh on 25<sup>th</sup> May.

- ❖ **Hailstorm** very likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and north Rajasthan on 24<sup>th</sup> & 25<sup>th</sup>; over Himachal Pradesh on 24<sup>th</sup> May.
- ❖ **Duststorm/Thunderstorm** with gusty winds (40-50 kmph) likely over Rajasthan during 24<sup>th</sup> to 26<sup>th</sup> May, 2023.
- ❖ **Strong Surface winds** (speed 25-35 kmph) very likely over plains of northwest India during 24<sup>th</sup> to 25<sup>th</sup> May.

#### **Northeast India:**

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely to continue over the Assam & Meghalaya during next 3 days.
- ❖ **Heavy rainfall** at isolated places over Assam & Meghalaya and Mizoram & Tripura on 24<sup>th</sup> - 26<sup>th</sup> May, 2023.

#### **East India:**

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over Sub-Himalayan West Bengal & Sikkim and isolated to scattered rainfall with thunderstorm/lightning/gusty winds over rest parts of the region during next 3 days.
- ❖ **Heavy rainfall** very likely at isolated places over Bihar on 24<sup>th</sup> & 25<sup>th</sup>; over Sub-Himalayan West Bengal & Sikkim during 24<sup>th</sup> to 26<sup>th</sup> May.
- ❖ **Hailstorm** very likely at isolated places over Jharkhand on 24<sup>th</sup> & 25<sup>th</sup> and West Bengal & Sikkim on 24<sup>th</sup> May.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over Gangetic West Bengal on 24<sup>th</sup> & 25<sup>th</sup> May.

#### **South India:**

- ❖ Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over most parts of south peninsular India during next 2 days except Kerala & Mahe where fairly wide spread is very likely during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Kerala on 24<sup>th</sup> May.

#### **Observed Maximum Temperatures and Heat Wave conditions:**

- ❖ Yesterday, Maximum Temperatures were in the range of 42-45°C over many parts of Vidarbha some parts of Madhya Pradesh, Rajasthan, Haryana, Delhi, Punjab, Uttar Pradesh, in isolated pockets over Odisha and below 40°C over rest parts of the country.
- ❖ Maximum Temperatures were above normal by 2-3°C over some parts of Punjab, West Bengal, coastal Odisha and parts of Northeast India and near normal over rest parts of the country.
- ❖ Yesterday, **Heat wave conditions** prevailed in isolated pockets of Delhi, northeast Madhya Pradesh and southwest Uttar Pradesh.

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

- ❖ Fall in maximum temperatures by 4-6°C very likely over Northwest India during next 3 days and no significant change thereafter. No significant change in maximum temperature very likely over Central & West India during next 24 hours and fall by 2-4°C thereafter. No significant change in maximum temperature very likely over rest parts of the country during next 5 days.

For more details kindly refer:

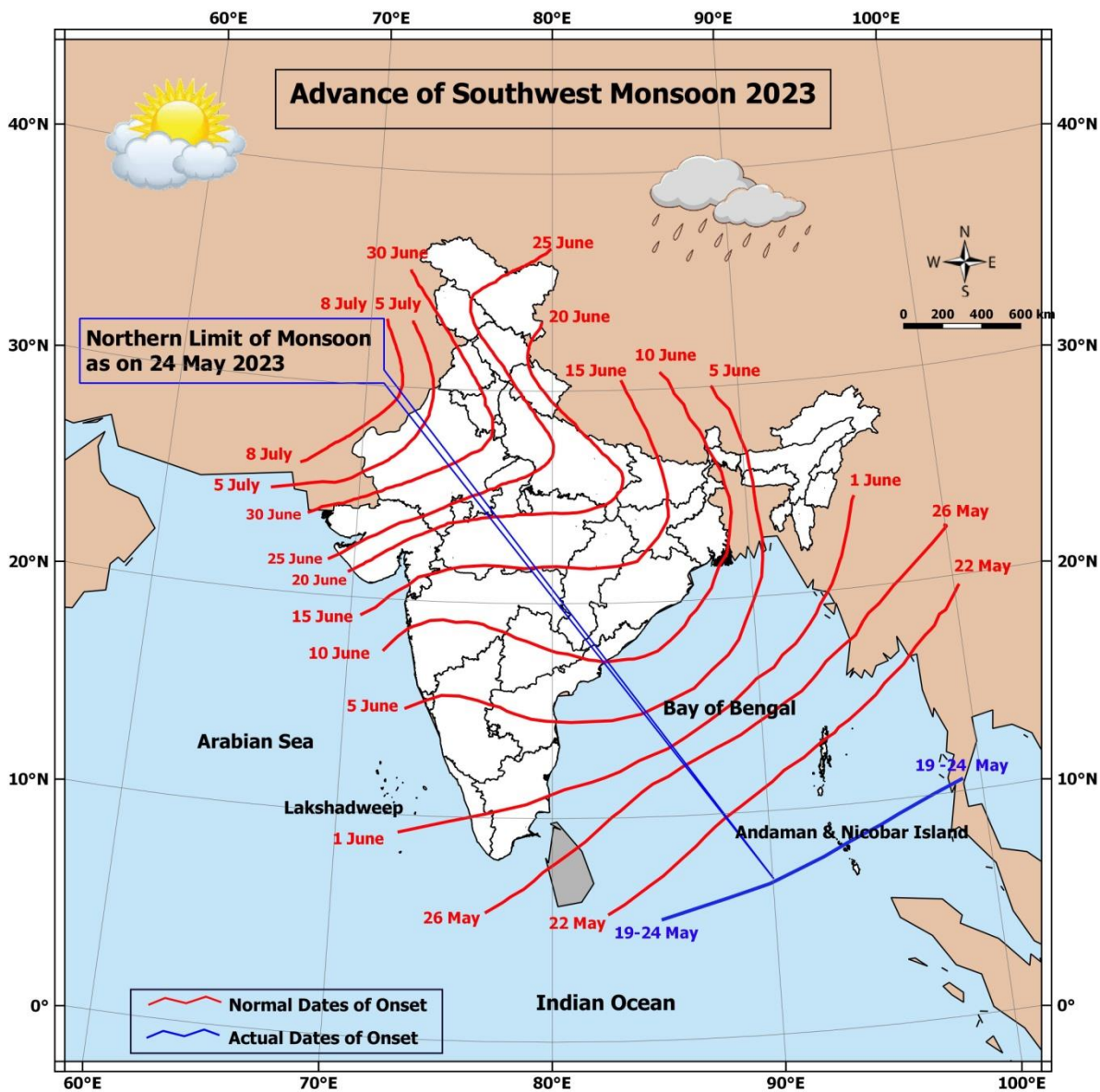
[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

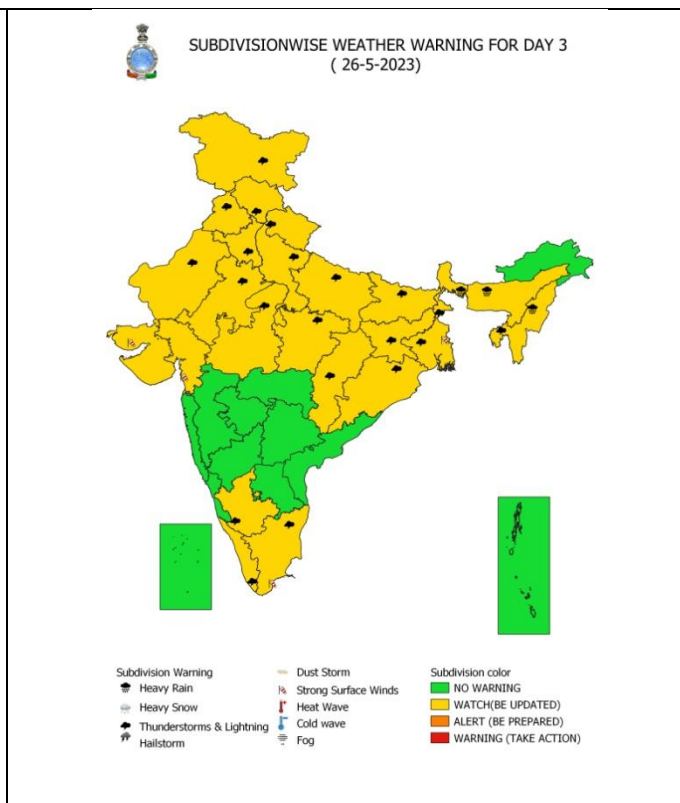
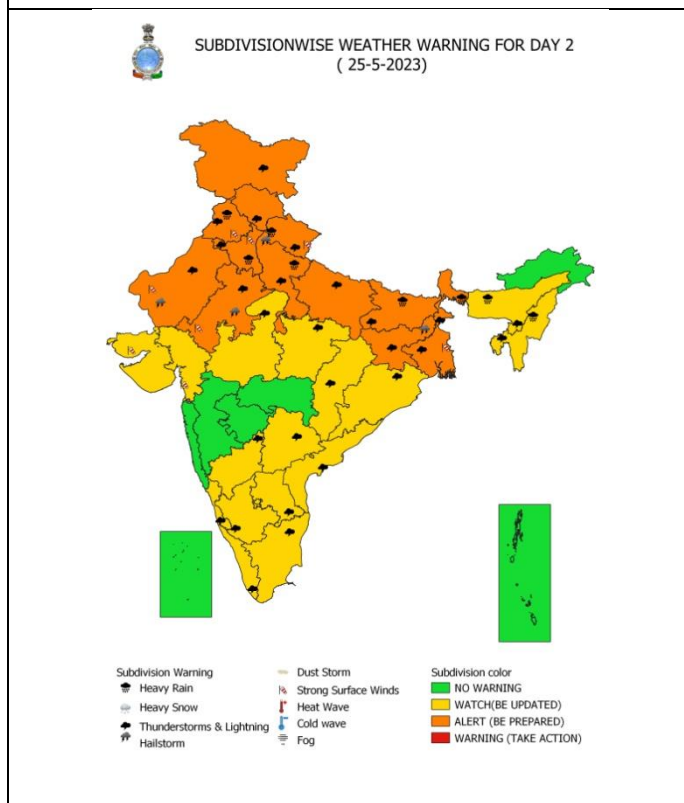
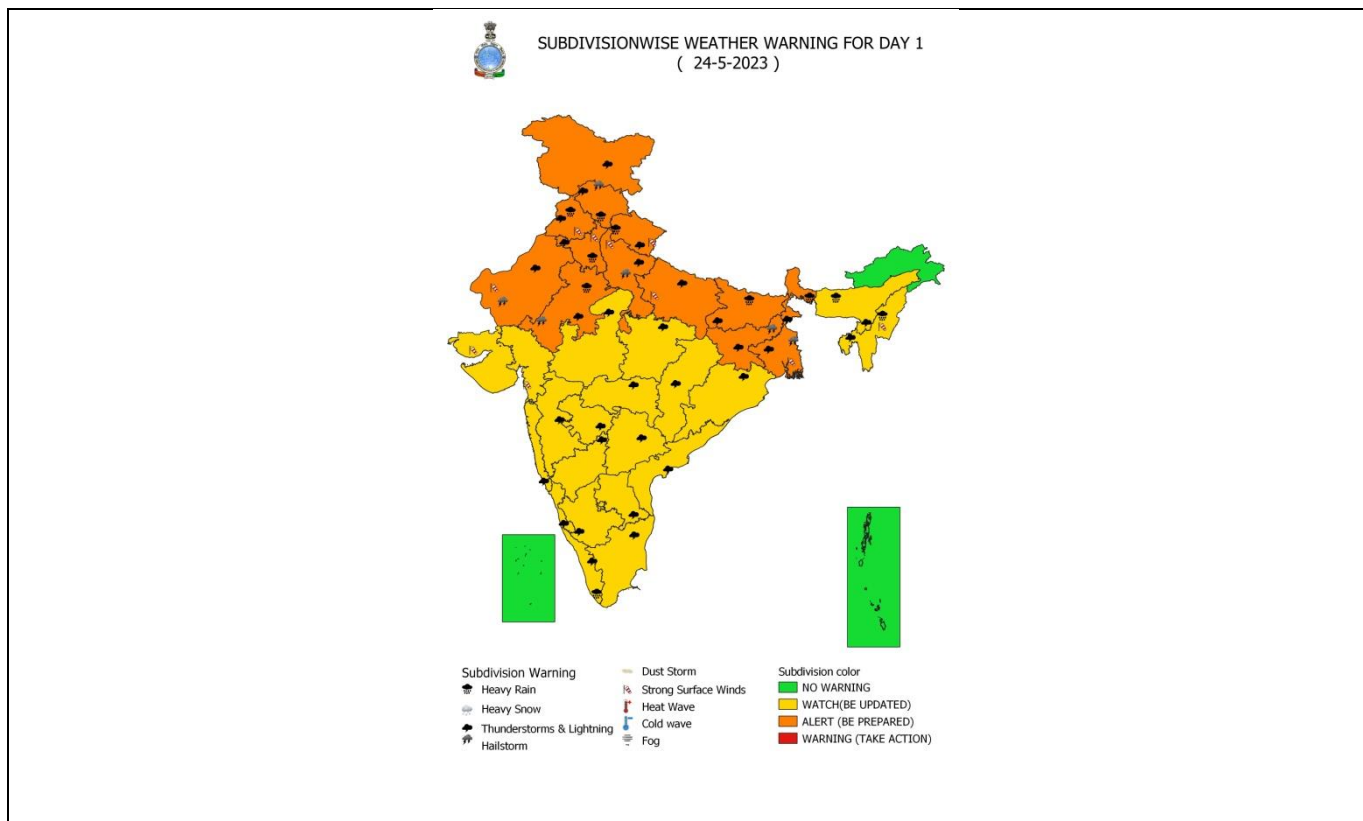
<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

## Annexure I

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

- **Rainfall/thundershowers** observed **at most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Gangetic West Bengal; **at many places** over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura; **at a few places** over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Andaman & Nicobar Islands, Assam & Meghalaya, Kerala & Mahe, Lakshadweep, Coastal & South Interior Karnataka; **at isolated places** over East Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, North Interior Karnataka, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- **Heavy Rainfall** observed at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tripura and Kerala.
- **Significant rainfall recorded** (in cm): **Kerala:** Ayyankunnu AWS (Kannur district) 11, **South Interior Karnataka:** Hunchadakatte (dist Shivamogga) 6, Kammardi (dist Chikkamagaluru) 5, Jayapura (dist Chikkamagaluru) 5; **Telangana:** Raghunathpalle (dist Jangaon) 4, **Tamil Nadu:** Madathukulam (dist Tiruppur), Kelavarapalli Dam (dist Krishnagiri), Nambiyur (dist Erode) 3 each; **Tripura:** Kvk South (dist South Tripura) 7, Udaipur (dist Gomati) 6, **Assam & Meghalaya:** Bahalpur (dist Dhubri) 6, Resubelpara (dist North Garo Hills) 5, **Himachal Pradesh:** Sirmaur-5, **Uttarakhand:** Uttarkashi-4, Dhanaulti-3; **Rajasthan:** Sikrai (dist Dausa) 5, Nohar Sr (dist Hanumangarh) 4, **Jammu & Kashmir:** Pahalgam Aws (dist Anantnag) 3, Nowgam (dist Kupwara) 3, **East Uttar Pradesh:** Kheri-4, **Haryana:** Dadupur (dist Yamuna Nagar) 4, Jagadhari (dist Yamuna Nagar) 4, Chhachhrauli (dist Yamuna Nagar) 3, Shivan Rev (dist Kaithal) 3, **Punjab:** Samana (dist Patiala) 3, Amloh Arg (dist Fatehgarh Sahib) 3, Amloh (dist Fatehgarh Sahib) 3.
- **Hailstorm** observed at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Rajasthan, Jharkhand, West Bengal & Sikkim and Telangana.
- **Squally Winds speed reaching 60-70 kmph** prevailed at isolated places over Gangetic West Bengal.

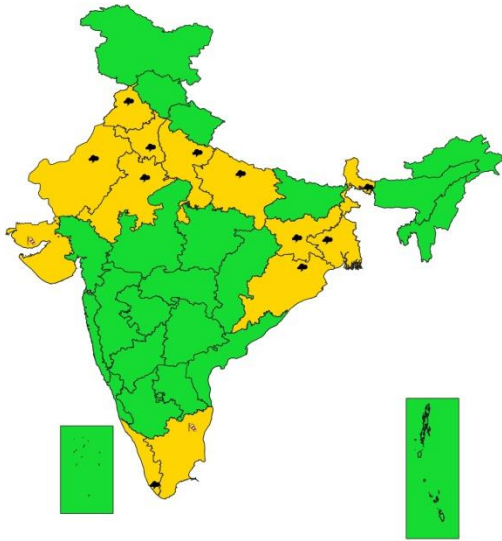








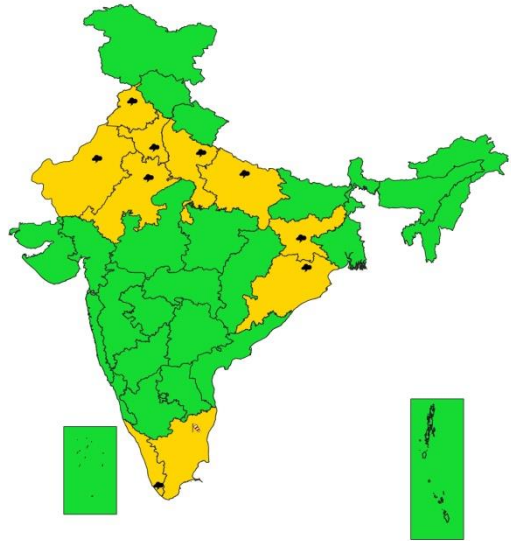
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
( 27-5-2023)**



- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <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)      |
| Hallstorm                  | Fog                  | WARNING (TAKE ACTION)    |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
( 28-5-2023)**



- |                            |                      |                          |
|----------------------------|----------------------|--------------------------|
| <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)      |
| Hallstorm                  | Fog                  | WARNING (TAKE ACTION)    |

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

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✓ **24<sup>th</sup> May:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Bengal & Sikkim, Bihar, Jharkhand

✓ **25<sup>th</sup> May:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Bengal & Sikkim, Bihar, Jharkhand

**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 Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Assam, Meghalaya, NMMT and Kerala.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Rajasthan, West Bengal, Sikkim and Jharkhand.

**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.

<b>SPATIAL DISTRIBUTION</b> (% 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)

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