



Government of India  
Ministry of Earth Sciences  
India Meteorological Department

Press Release

Date: 23<sup>rd</sup> May, 2023

Time of Issue: 1315 hours IST

**Subject: (i) Wet spell over northwest India due to an active Western Disturbance during 23<sup>rd</sup> evening to 26<sup>th</sup> May.**  
**(ii) Enhanced rainfall/thunderstorm activity over east and northeast India during 23<sup>rd</sup> to 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 Western Disturbance lies over Iran & neighbourhood
- ❖ A cyclonic circulation lies over central Pakistan 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.
- ❖ 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 23<sup>rd</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 on 24<sup>th</sup> & 25<sup>th</sup> and over Punjab, Haryana-Chandigarh-Delhi on 24<sup>th</sup>; and over West Uttar Pradesh on 25<sup>th</sup> May.
- ❖ **Heavy rainfall** very likely at isolated places over Himachal Pradesh on 23<sup>rd</sup> & 24<sup>th</sup> May; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, south Haryana on 24<sup>th</sup> May.
- ❖ **Hailstorm** very likely at isolated places over Himachal Pradesh on 23<sup>rd</sup> & 24<sup>th</sup>; Uttarakhand

during 23<sup>rd</sup> to 25<sup>th</sup>; over Punjab & Haryana on 24<sup>th</sup> and West Uttar Pradesh and north Rajasthan on 24<sup>th</sup> & 25<sup>th</sup> May.

❖ **Duststorm/Thunderstorm** with gusty winds (40-50 kmph) likely over Rajasthan during 23<sup>rd</sup>-25<sup>th</sup> May, 2023.

❖ **Strong Surface winds** (speed 25-35 kmph) very likely over plains of northwest India during 23<sup>rd</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 4 days.

❖ **Heavy rainfall** at isolated places over Assam & Meghalaya during 23<sup>rd</sup> to 26<sup>th</sup> and Nagaland, Manipur, 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 5 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 on 25<sup>th</sup> & 26<sup>th</sup> and over Jharkhand on 26<sup>th</sup> May.

❖ **Hailstorm** very likely at isolated places over Bihar and West Bengal & Sikkim on 23<sup>rd</sup> & 24<sup>th</sup> May.

❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over Gangetic West Bengal on 23<sup>rd</sup> & 24<sup>th</sup> May.

#### **Central India:**

❖ Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds over Madhya Pradesh and Chhattisgarh during next 5 days.

#### **South India:**

❖ Light/moderate isolated to scattered rainfall over many parts of the region during next 5 days and with thunderstorm/lightning/gusty winds very likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and Lakshadweep during next 5 days and over Karnataka, Andhra Pradesh on 23<sup>rd</sup> & 24<sup>th</sup> May.

❖ **Heavy rainfall** very likely at isolated places over Kerala on 23<sup>rd</sup>, 26<sup>th</sup> & 27<sup>th</sup> May.

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

❖ Yesterday, Maximum Temperatures were in the range of 40-45°C over most parts of plains of Northwest India, Central India and interior parts of West, East & northern parts of Peninsular India and below 40°C over rest parts of the country.

❖ Maximum Temperatures were either normal or above normal by 2-4°C over most parts of the country except over many parts of Arunachal Pradesh, Assam & Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal, Telangana and many parts of Madhya Pradesh and Vidarbha where these are below normal by about 2°C.

❖ Yesterday, **Heat wave conditions** prevailed in some parts of Delhi and in isolated pockets of South Haryana, southwest Uttar Pradesh, North Madhya Pradesh and East Jharkhand.

#### **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. Fall in maximum temperatures by 2-4°C very likely over East India during next 3 days and no significant change thereafter. No significant change in maximum temperature very likely over Central & West India during next 48 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.

❖ **Heat wave conditions** in isolated pockets very likely over Delhi, Southwest Uttar Pradesh, North Madhya Pradesh and East Jharkhand on 23<sup>rd</sup> May.

For more details kindly refer:

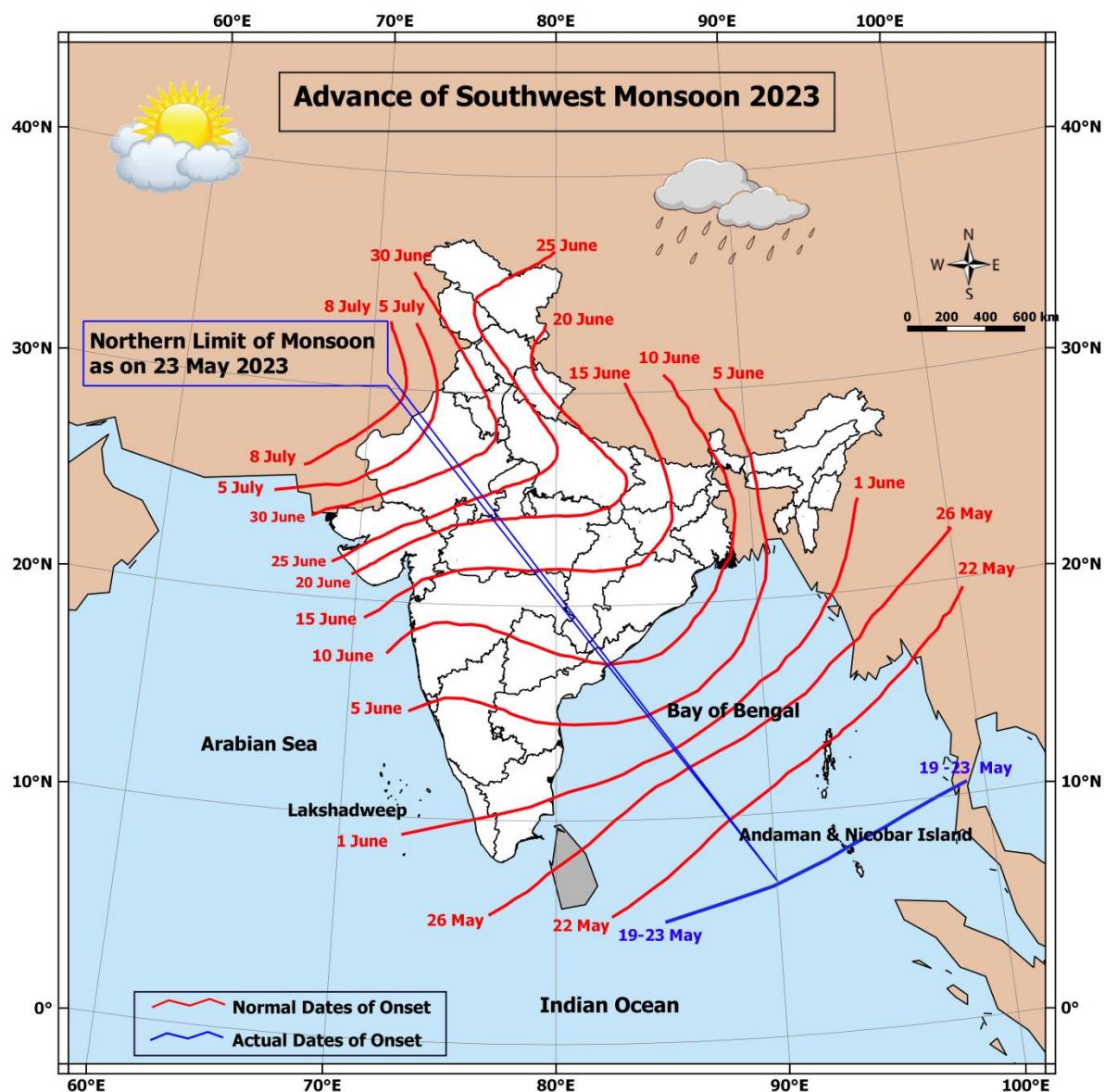
[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

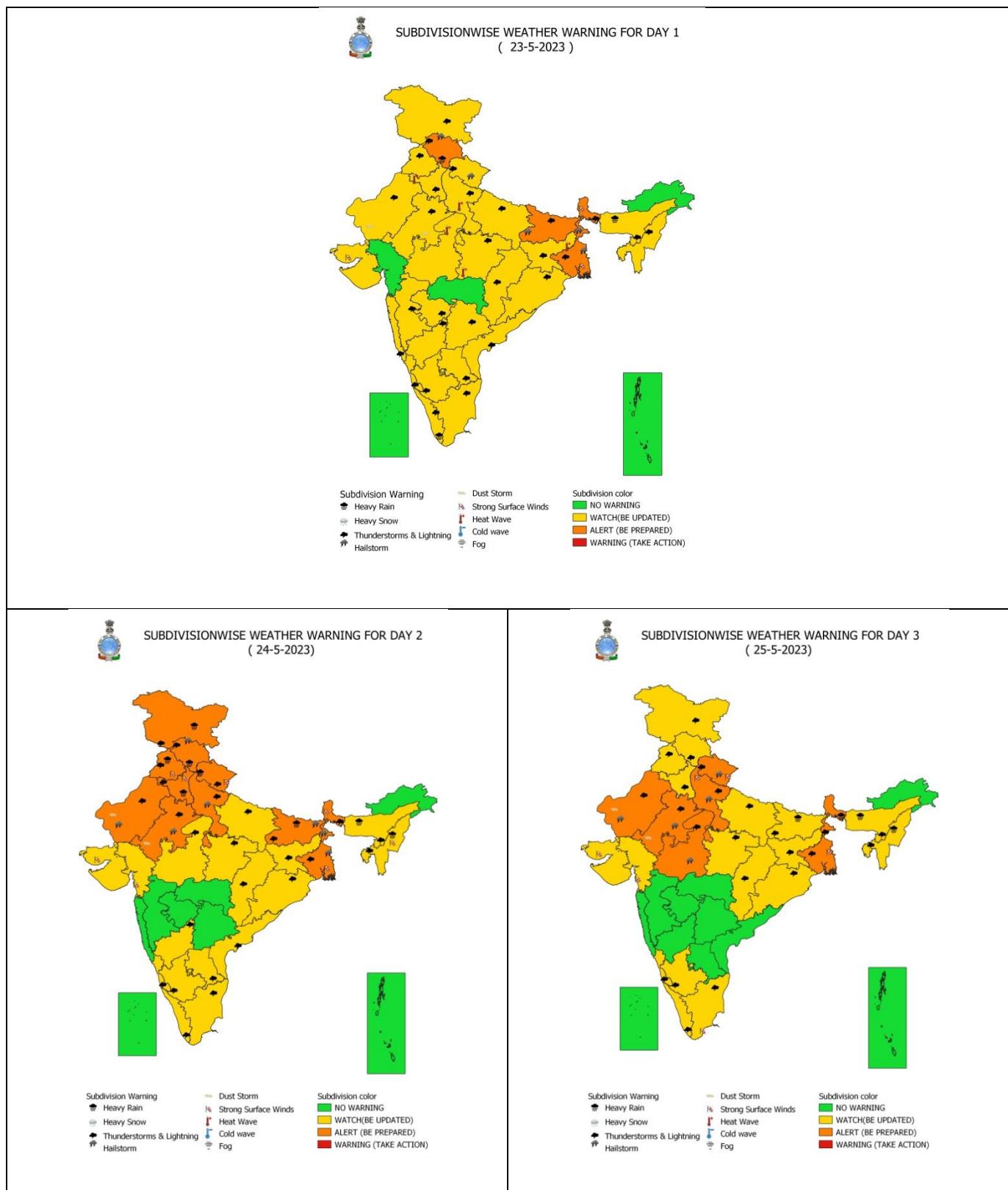
## Annexure I

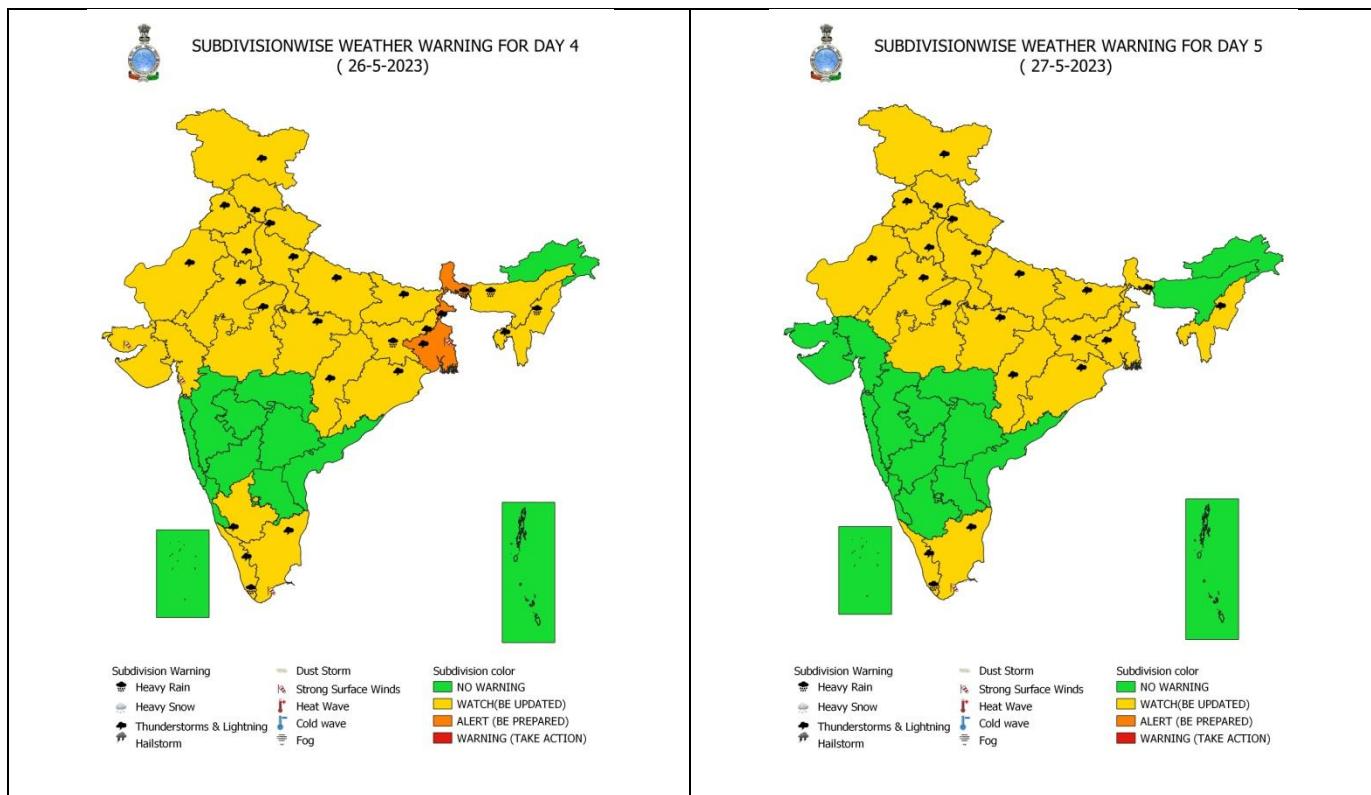
### Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- **Rainfall/thundershowers** observed **at most places** over Lakshadweep; **at many places** over Kerala & Mahe; **at a few places** over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka; **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- **Very heavy Rainfall** observed at isolated places over south Goa; **heavy Rainfall** observed at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe
- **Significant rainfall recorded** (in cm): **Goa:** Quepem (dist South Goa) 12, **Tamil Nadu:** Chittar (dist Kanyakumari) 9, Valparai PAP (dist Coimbatore), Valparai Taluk Office (dist Coimbatore) 8 each, Sivalogam (dist Kanyakumari), Upper Gudalur (dist Nilgiris) 6 each, Pechiparai (dist Kanyakumari), Thuraiyur (dist Trichy) 5 each; **Kerala & Mahe:** Konni (Pathanamthitta district) 9, Kurudamannil (Pathanamthitta district) & Vaikom (Kottayam district) 8 each, Anchal ARG (Kollam district) 7, Kanjirappally (Kottayam district) & West Kallada AWS (Kollam district) 5 each, **Karnataka:** Bellur (dist Mandya) 6, Kanabargi Aws (dist Belagavi) 6, Annigere Ars (dist Dharwad) 5, Manchikere (dist Uttara Kannada) 5.
- **Hailstorm** observed at isolated places over West Madhya Pradesh.
- **Gusty Winds** prevailed at isolated places over Madhya Pradesh, Chhattisgarh, Tamil Nadu and South Interior Karnataka.



### Annexure III





## IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:

### ❖ 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 colour, loose, cotton clothes, Cover your head, use a cloth, hat or umbrella.

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

- ✓ **23<sup>rd</sup> May:** Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Bihar
- ✓ **24<sup>th</sup> May:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, north Rajasthan, West Bengal & Sikkim, Bihar
- ✓ **25<sup>th</sup> May:** Uttarakhand, north Rajasthan, west Uttar Pradesh, West Madhya 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 Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Assam, Meghalaya, NMMT and Kerala.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Apply light and frequent irrigation to standing crops in South West Uttar Pradesh, Madhya Pradesh and Jharkhand.
- Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand, Punjab, Haryana,
- West Uttar Pradesh, West Bengal, Sikkim and Bihar.

## 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 Widespred (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