



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

**Press Release
Date: 23rd May, 2023
Time of Issue: 1315 hours IST**

**Subject: (i) Wet spell over northwest India due to an active Western Disturbance during 23rd evening to 26th May.
(ii) Enhanced rainfall/thunderstorm activity over east and northeast India during 23rd to 26th 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 23rd to 26th 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 23rd to 26th May with maximum intensity on 24th & 25th May.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over Uttarakhand on 24th & 25th and over Punjab, Haryana-Chandigarh-Delhi on 24th; and over West Uttar Pradesh on 25th May.
- ❖ **Heavy rainfall** very likely at isolated places over Himachal Pradesh on 23rd & 24th May; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, south Haryana on 24th May.
- ❖ **Hailstorm** very likely at isolated places over Himachal Pradesh on 23rd & 24th; Uttarakhand

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

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

❖ **Strong Surface winds** (speed 25-35 kmph) very likely over plains of northwest India during 23rd to 25th 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 23rd to 26th and Nagaland, Manipur, Mizoram & Tripura on 24th - 26th 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 24th & 25th ; over Sub-Himalayan West Bengal & Sikkim on 25th & 26th and over Jharkhand on 26th May.

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

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

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

For more details kindly refer:

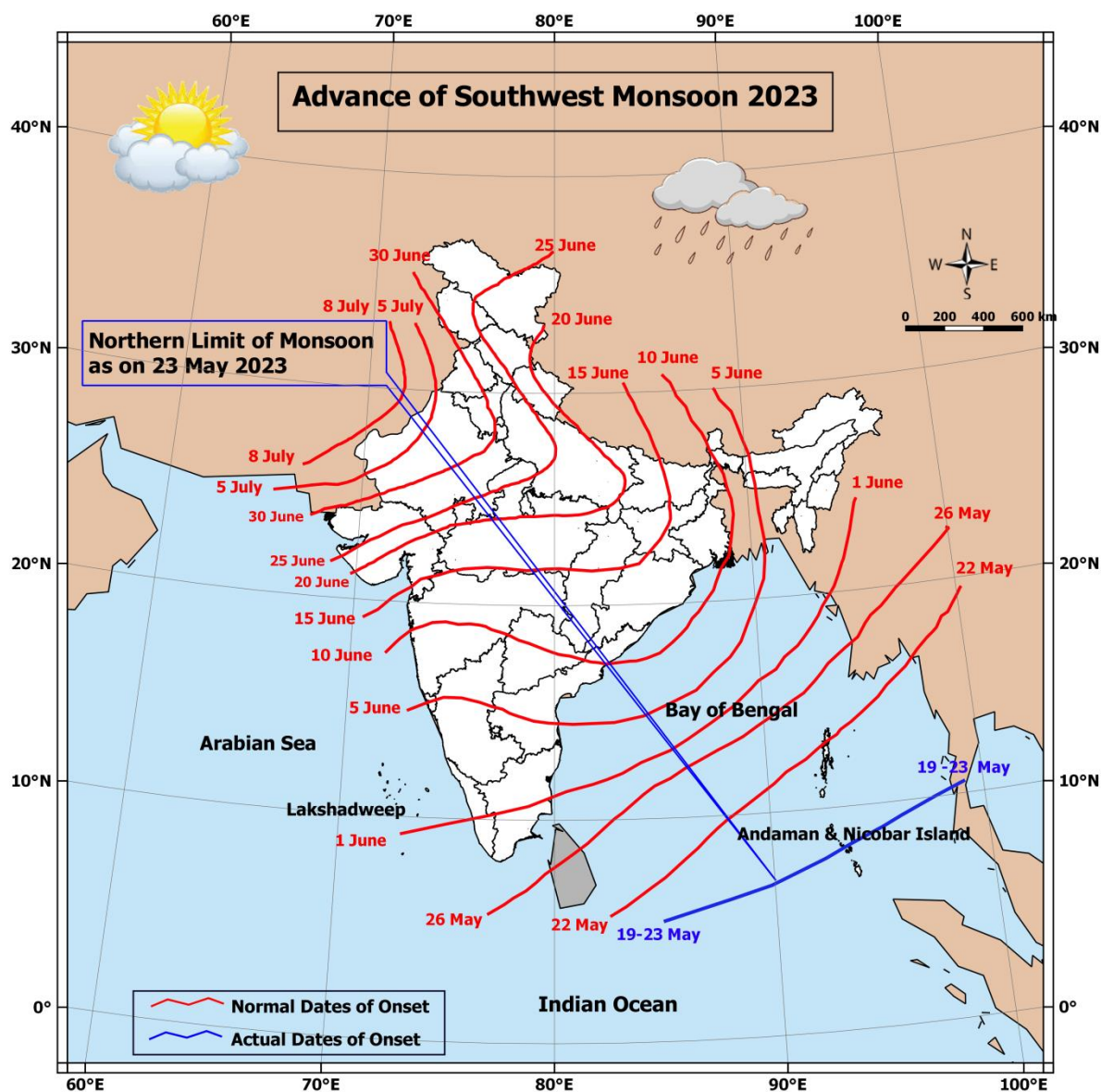
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

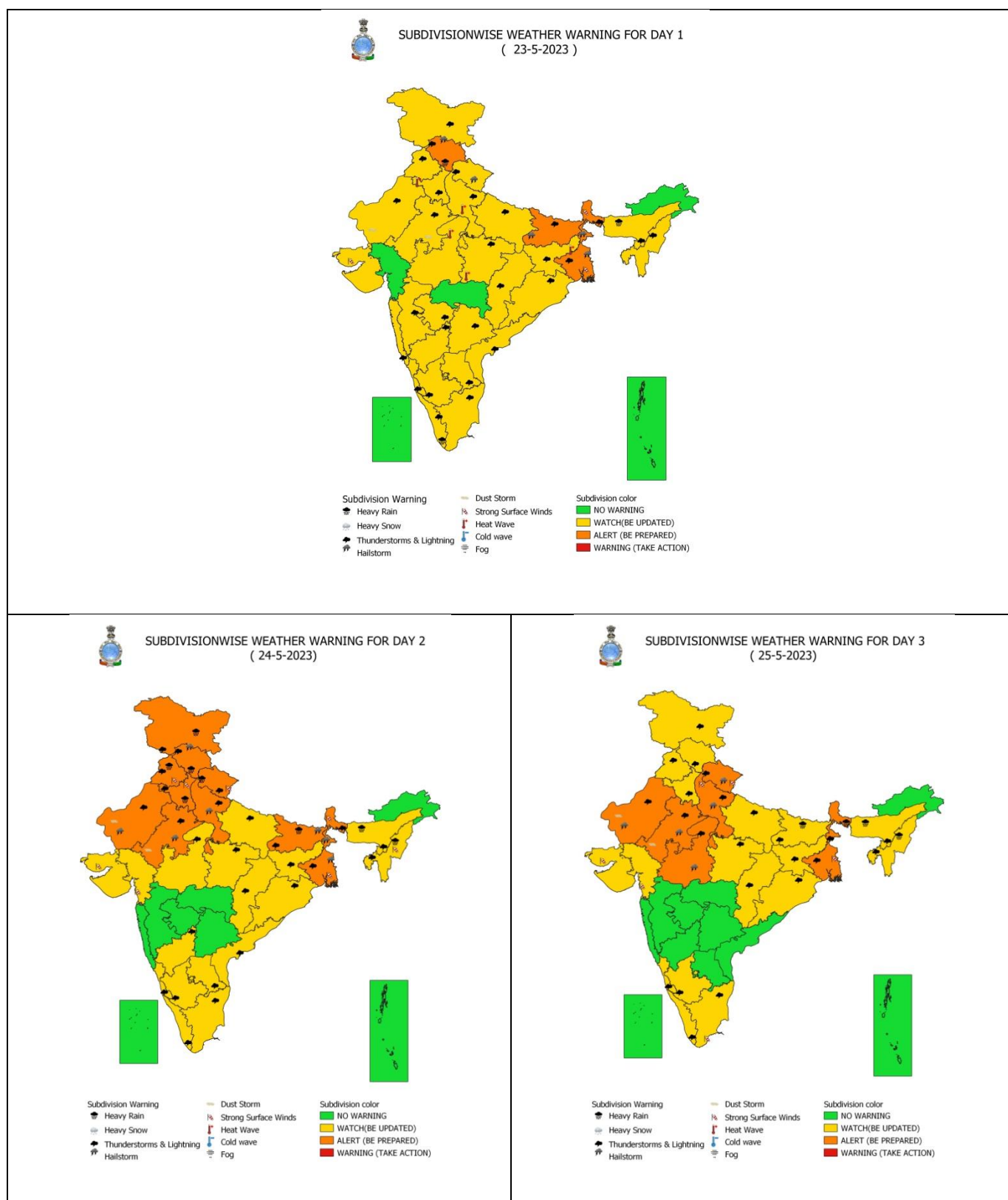
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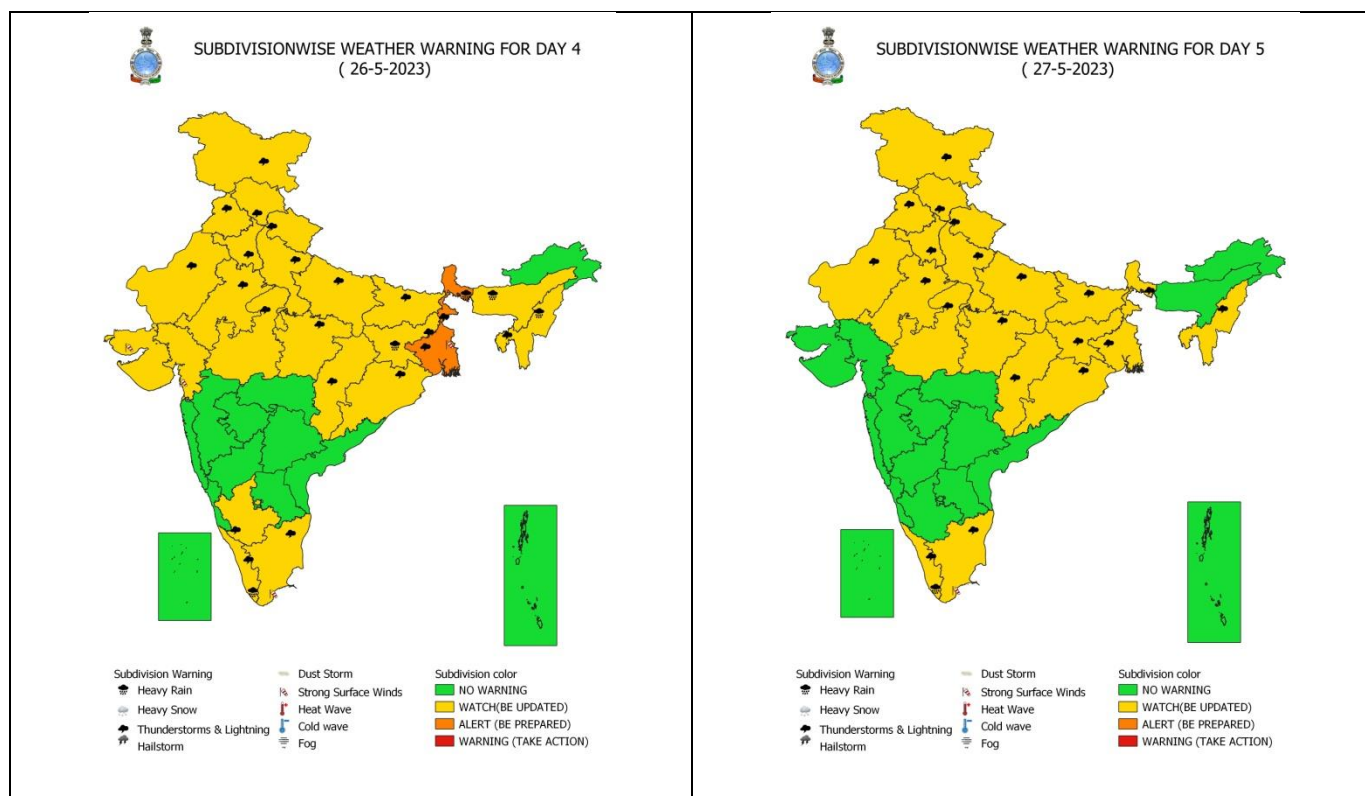
Annexure I

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.







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

- ✓ **23rd May:** Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Bihar
- ✓ **24th May:** Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, north Rajasthan, West Bengal & Sikkim, Bihar
- ✓ **25th 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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

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

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