



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

**Press Release
Date: 22nd May, 2023
Time of Issue: 1500 hours IST**

Subject: (i) Wet spell over northwest India due to an active Western Disturbance during 23rd to 25th May.

(ii) Heat wave conditions over south Haryana, southern parts of Uttar Pradesh, Gangetic West Bengal, Bihar and Jharkhand on 22nd May and abate thereafter.

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:

- ❖ Strong southwesterly winds from Bay of Bengal to northeast India are prevailing at lower tropospheric levels.
- ❖ A fresh Western Disturbance is likely to affect northwest India from 23rd May.

Forecast and warning over the country during next 5 days:

Northwest India:

- ❖ In association with above; 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 May.
- ❖ **Heavy rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 23rd & 24th May and over Punjab on 24th May.
- ❖ **Hailstorm** very likely at isolated places over Himachal Pradesh on 23rd; Haryana on 24th and north Rajasthan on 24th & 25th May.
- ❖ **Duststorm/Thunderstorm** with gusty winds (40-50 kmph) likely over Rajasthan during 23rd-25th May, 2023.

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 during 22nd 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 Sub-Himalayan West Bengal & Sikkim on 23rd & 25th May.
- ❖ **Hailstorm** very likely at isolated places over Bihar and West Bengal & Sikkim on 23rd & 24th May.

Central India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning/gusty winds over Madhya Pradesh, Vidarbha & Chhattisgarh during next 3 days.
- ❖ **Hailstorm** very likely at isolated places over West Madhya Pradesh on 24th & 25th May.

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 Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal on 22nd May.
- ❖ **Heavy rainfall** very likely at isolated places over South Interior Karnataka, south Tamil Nadu and Kerala on 22nd 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 & 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 where these are below normal by 2-4°C.
- ❖ Yesterday, Heat wave conditions prevailed in some parts of West Rajasthan and in isolated pockets over south Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal.

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

- ❖ No significant change in maximum temperature very likely over Northwest & Central India during next 24 hours and fall by 3-5°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 Jharkhand on 22nd & 23rd and south Haryana, southern parts of Uttar Pradesh, East Madhya Pradesh, Bihar, Gangetic West Bengal on 22nd May.
- ❖ Due to humid air & high temperature, **Hot and Discomfort weather** is very likely over Marathawada, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe on 22nd May.

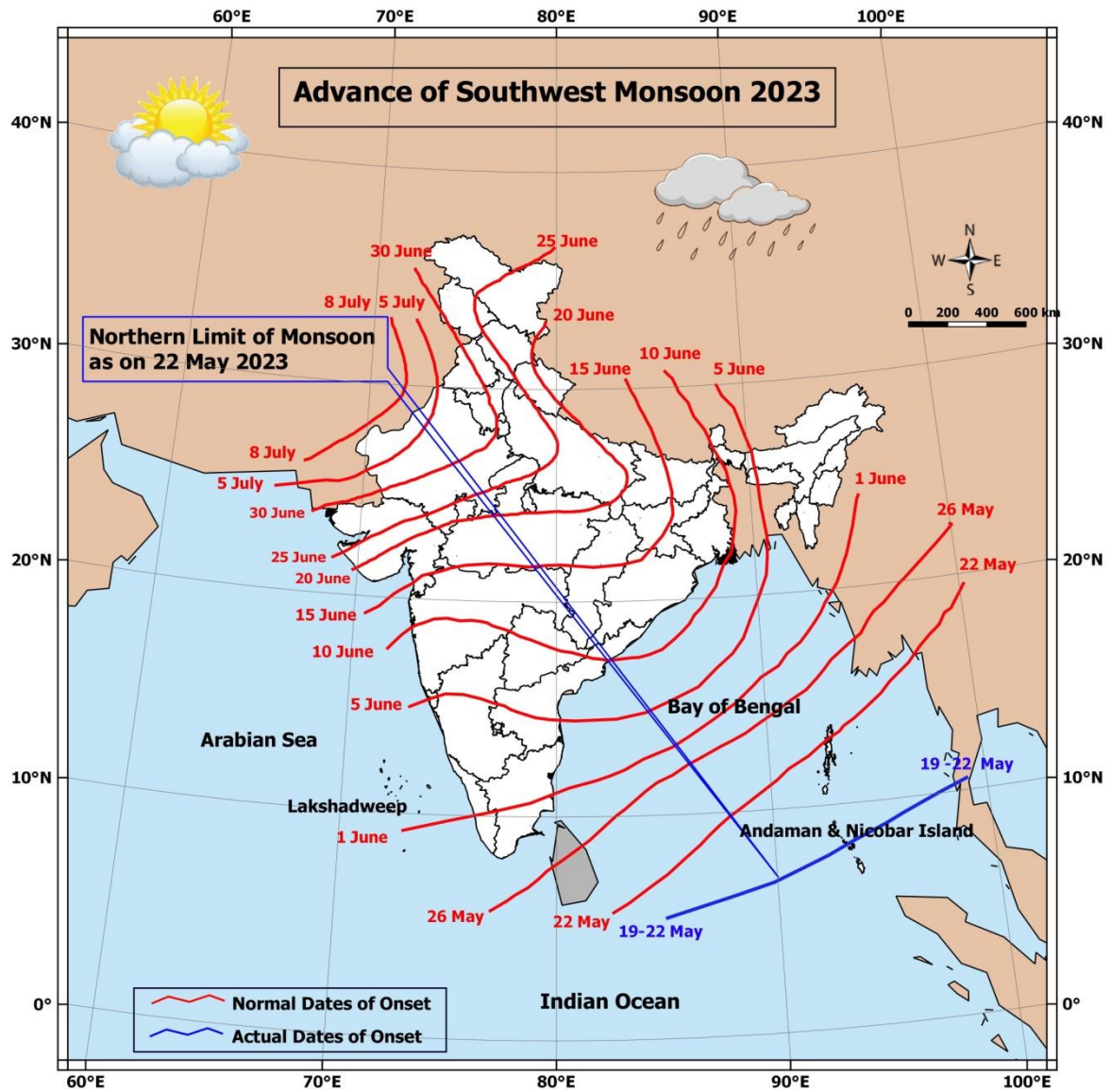
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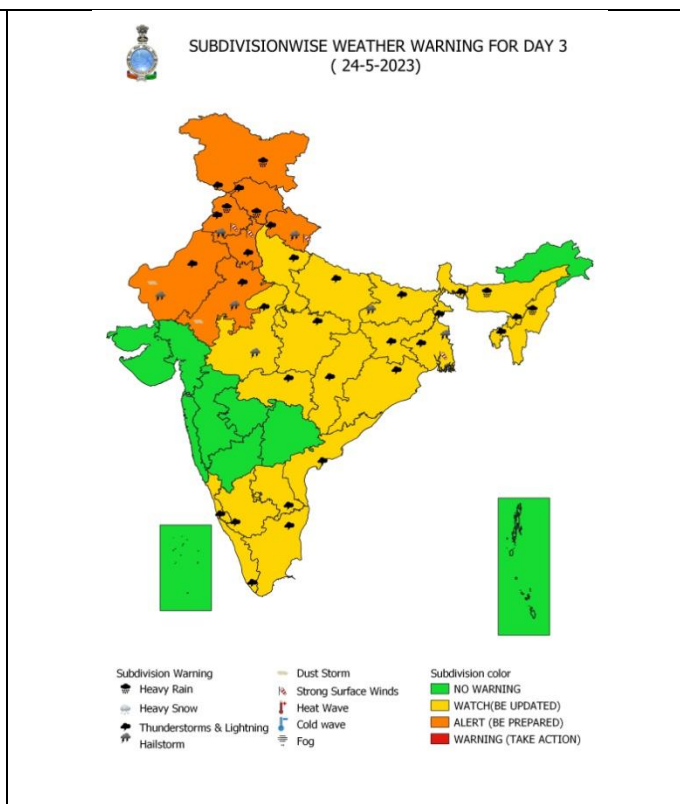
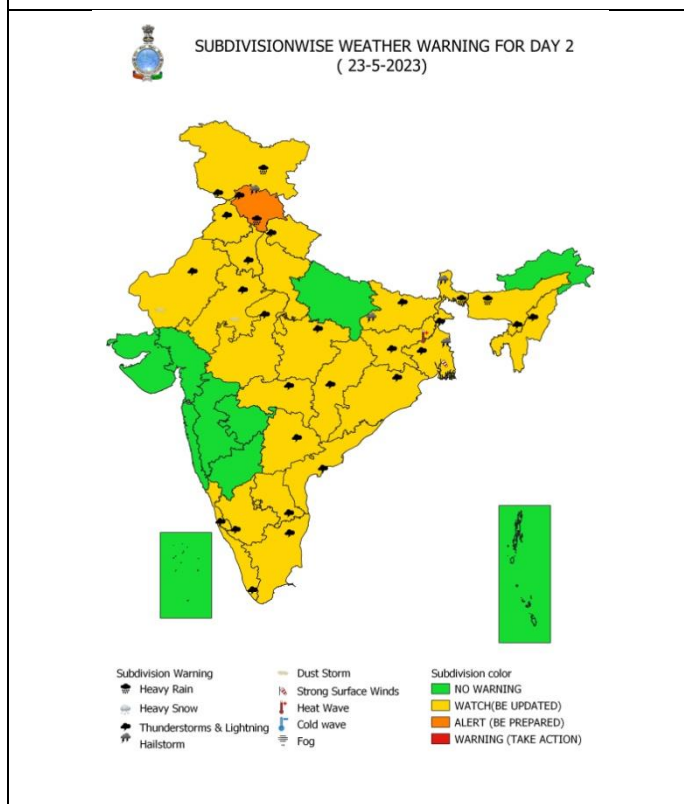
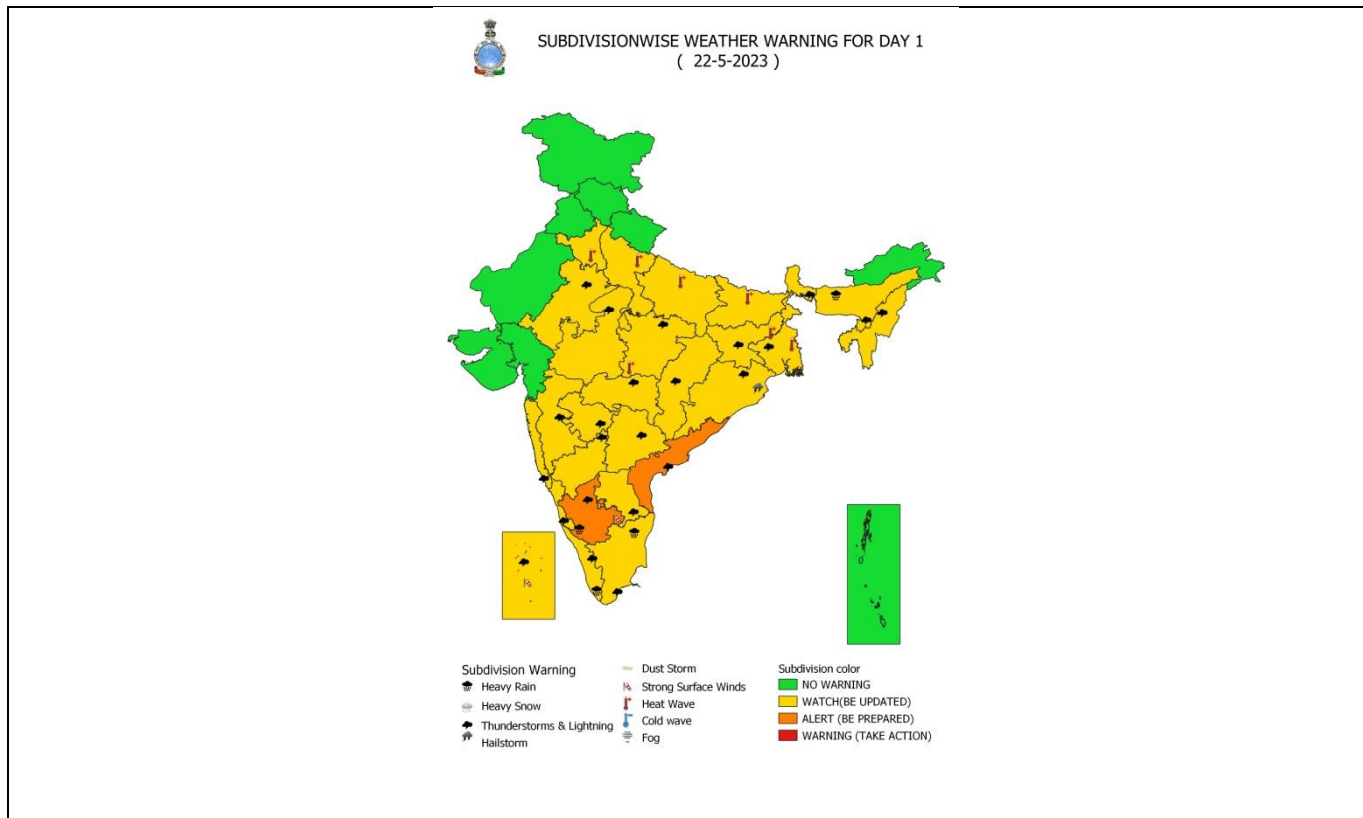
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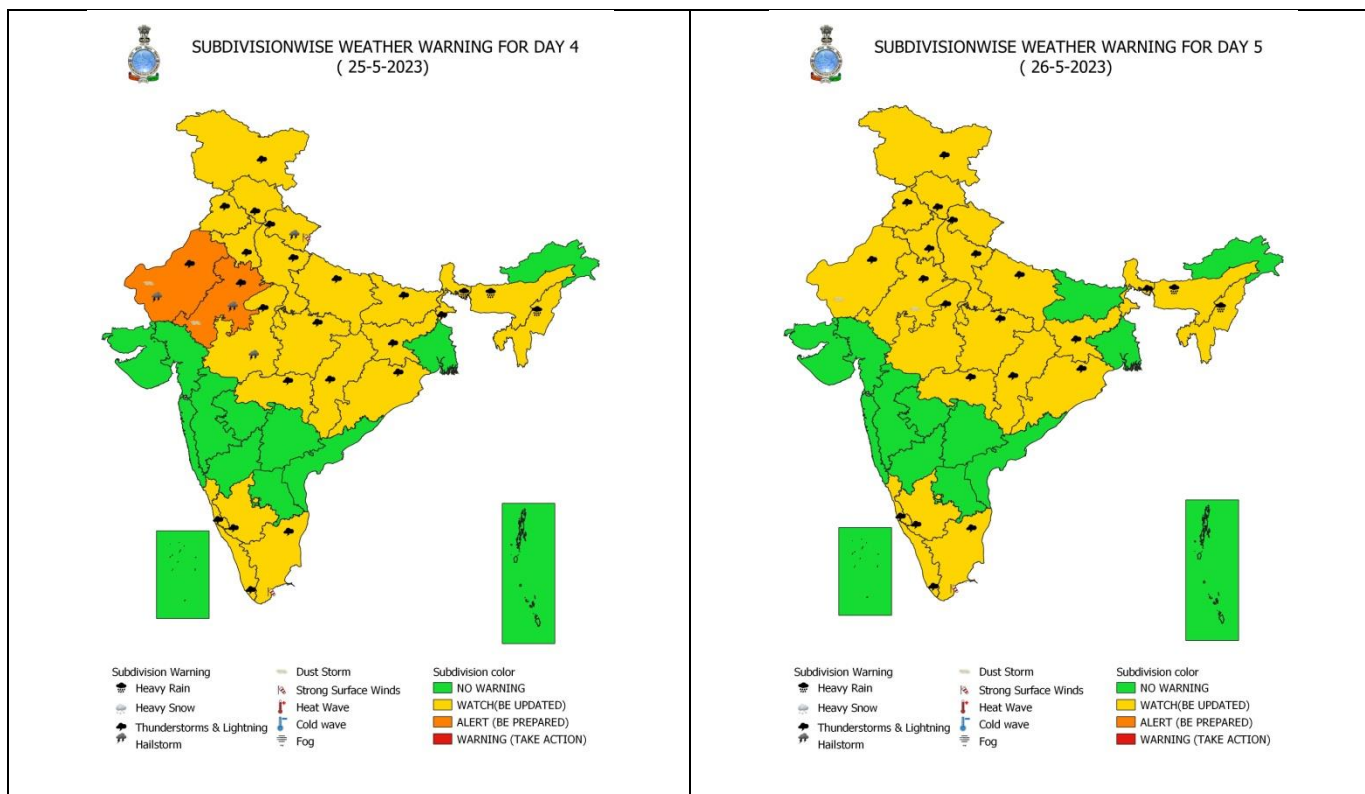
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Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- **Rainfall/thundershowers** observed **at most places** over Arunachal Pradesh, Assam & Meghalaya, Coastal & South Interior Karnataka; **at many places** over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe; **at a few places** over Telangana, Rayalaseema, North Interior Karnataka, Lakshadweep and **at isolated places** over Andaman & Nicobar Islands, Bihar, Jharkhand, Odisha, Gangetic West Bengal, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- **Heavy Rainfall** observed at isolated places over South Interior Karnataka and Rayalaseema.
- **Significant rainfall recorded** (in cm): **Rayalaseema:** Pulivendla (dist Ysr District) 8, Hindupur (dist Sri Sathyasai District) 6, Penu Konda (dist Sri Sathyasai District) 4, **South Interior Karnataka:** Tyagarthi (dist Shivamogga) 7, Yagati (dist Chikkamagaluru) 6, Davanagere (dist Davangere) 5, Kadur (dist Chikkamagaluru) 4, Konanur (dist Hassan) 4, **Tamil Nadu:** Madathukulam (dist Tiruppur) 5, Tiruvallur (dist Tiruvallur), Dharmapuri PTO (dist Dharmapuri), Thuraiyur (dist Trichy), Chennimalai (dist Erode) 3 each, **Kerala:** Konni (Pathanamthitta district) 4, C.I.A.L. Kochi (Ernakulam district), Kurudamannil (Pathanamthitta district), Kollengode (Palakkad district), Ambalavayal (Wayanad district) & Mahe (Puducherry UT) 3 each, **Coastal Karnataka:** Sulya (dist Dakshina Kannada) 5, Puttur Hms (dist Dakshina Kannada) 3, **Telangana:** Regode (dist Medak) 4, Rajendranagar(a) (dist Rangareddy) 4, **North Interior Karnataka:** Gangavathi (dist Koppal) 3, **Coastal Andhra Pradesh & Yanam:** Narsipatnam (dist Anakapalli) 3, **Assam & Meghalaya:** Badatighat (dist Lakhimpur) 4, **Chhattisgarh:** Tokapal (dist Bastar) 5; **Odisha:** Kalinga (dist Kandhamal) 5, Gunupur (dist Rayagada) 5, Kaptipada (dist Mayurbhanj) 4, G Udayagiri (dist Kandhamal) 4, Basudevapur (dist Bhadrak) 4.
- **Hailstorm** observed at isolated places over West Madhya Pradesh, Telangana 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:

- ✓ **22nd May:** Odisha
- ✓ **23rd May:** Himachal Pradesh, West Bengal & Sikkim, Bihar
- ✓ **24th May:** Uttarakhand, Haryana, Chandigarh & Delhi, north Rajasthan, West Madhya Pradesh, West Bengal & Sikkim, Bihar
- ✓ **25th May:** Uttarakhand, north Rajasthan, 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, Assam, Meghalaya, Tamil Nadu, South Interior Karnataka and Kerala.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Apply light and frequent irrigation to standing crops in South Haryana, South Uttar Pradesh, Rajasthan, East Madhya Pradesh, Gangetic West Bengal, Bihar and Jharkhand.
- Use hail nets to protect orchards in Himachal Pradesh, West Bengal, Sikkim, Odisha, 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	 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