



Government of India  
Ministry of Earth Sciences  
India Meteorological Department

Press Release

Date: 29<sup>th</sup> May, 2023

Time of Issue: 1400 hours IST

**Subject: Rainfall and Thunderstorm activity likely to continue over Northwest India till 31<sup>st</sup> May and decrease gradually 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 24 hours.

**Significant Meteorological features:**

- ❖ The Western Disturbance as a northwest-southeast trough in middle and upper tropospheric westerlies between Long. 68°E/Lat. 37°N and Long. 77°E/Lat. 19°N.
- ❖ A cyclonic circulation lies over southwest Rajasthan & adjoining Pakistan in lower tropospheric levels.
- ❖ An east-west trough runs from the cyclonic circulation over southwest Rajasthan to central parts of south Uttar Pradesh in lower tropospheric levels.
- ❖ A north-south trough runs from cyclonic circulation over south Chhattisgarh to interior 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 (40-50 gusting to 60kmph) very likely over Northwest India till 31<sup>st</sup> May with peak activity on 29<sup>th</sup> & 30<sup>th</sup> May and gradual reduction from 01<sup>st</sup> June.
- ❖ **Hailstorm** very likely at isolated places over north Rajasthan, Jammu division, Himachal Pradesh on 29<sup>th</sup> & 30<sup>th</sup> and over Uttarakhand during 29<sup>th</sup>-31<sup>st</sup> May, Punjab on 29<sup>th</sup> May.
- ❖ **Thundersquall/Gusty Wind speed reaching 60-70 kmph** very likely at isolated places over Haryana, Delhi on 29<sup>th</sup>; Rajasthan on 29<sup>th</sup> & 30<sup>th</sup>; Uttarakhand on 31<sup>st</sup> May.
- ❖ **Heavy rainfall** very likely at isolated places over north Rajasthan on 29<sup>th</sup> May; Jammu & Kashmir and Himachal Pradesh on 31<sup>st</sup> May.

### **Central India:**

- ❖ Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over Madhya Pradesh during next 2 days and reduction thereafter.
- ❖ **Thundersquall/Gusty Wind speed reaching 50-60 kmph & hailstorm** very likely at isolated places over Madhya Pradesh on 29<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 29<sup>th</sup>, Kerala on 29<sup>th</sup> & 30<sup>th</sup> May; South Interior Karnataka on 30<sup>th</sup> & 31<sup>st</sup> and Coastal Karnataka on 31<sup>st</sup> May.

**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, Marathawada, south Andhra Pradesh 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,; by 3-5°C over Madhya Pradesh, Uttar Pradesh, north Chhattisgarh and near normal over rest parts of the country.

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

- ❖ No significant change in maximum temperature very likely over Northwest India during next 4 days and rise by 2-4°C thereafter. 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 29<sup>th</sup> May, 2023.

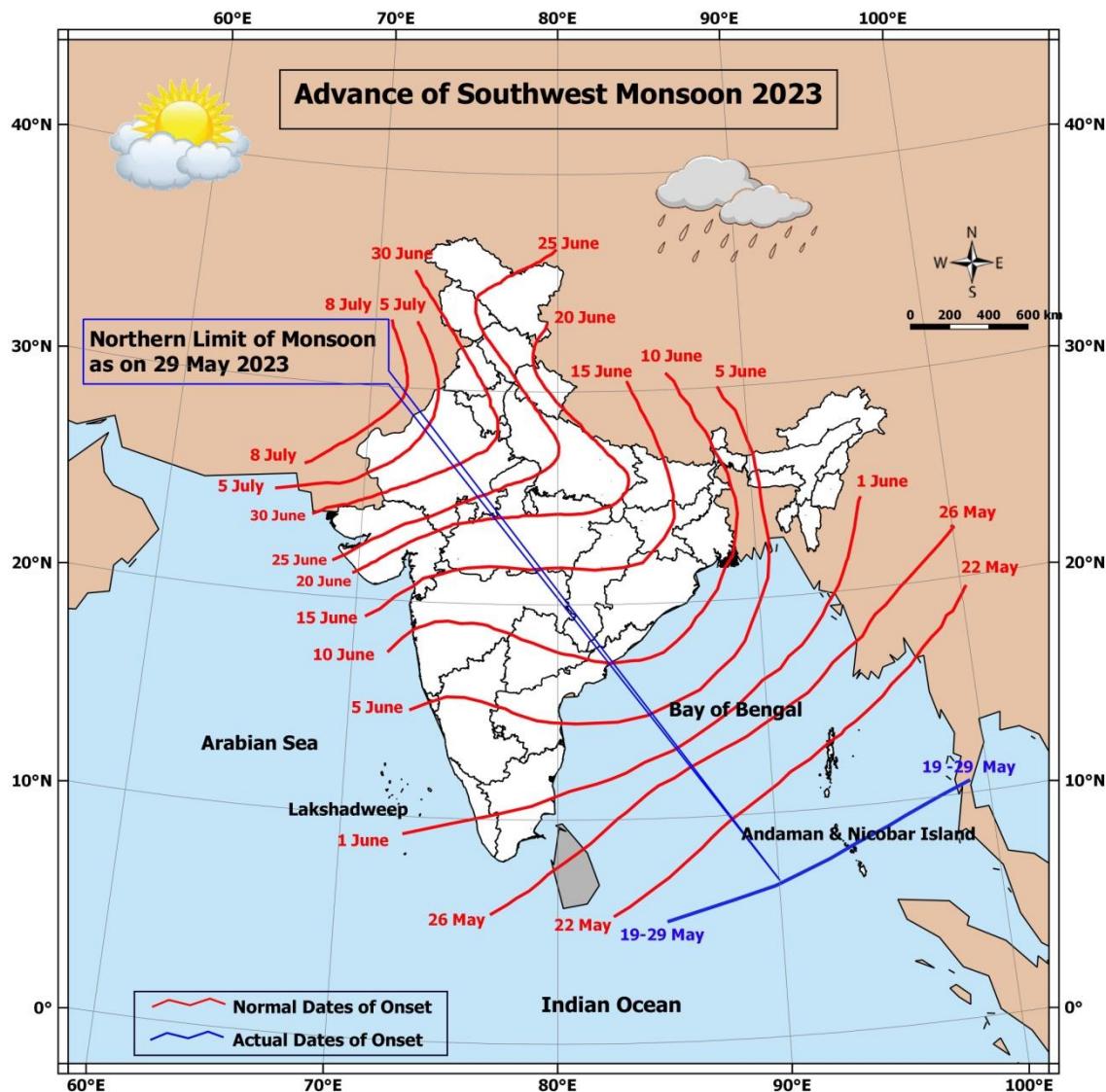
For more details kindly refer:

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

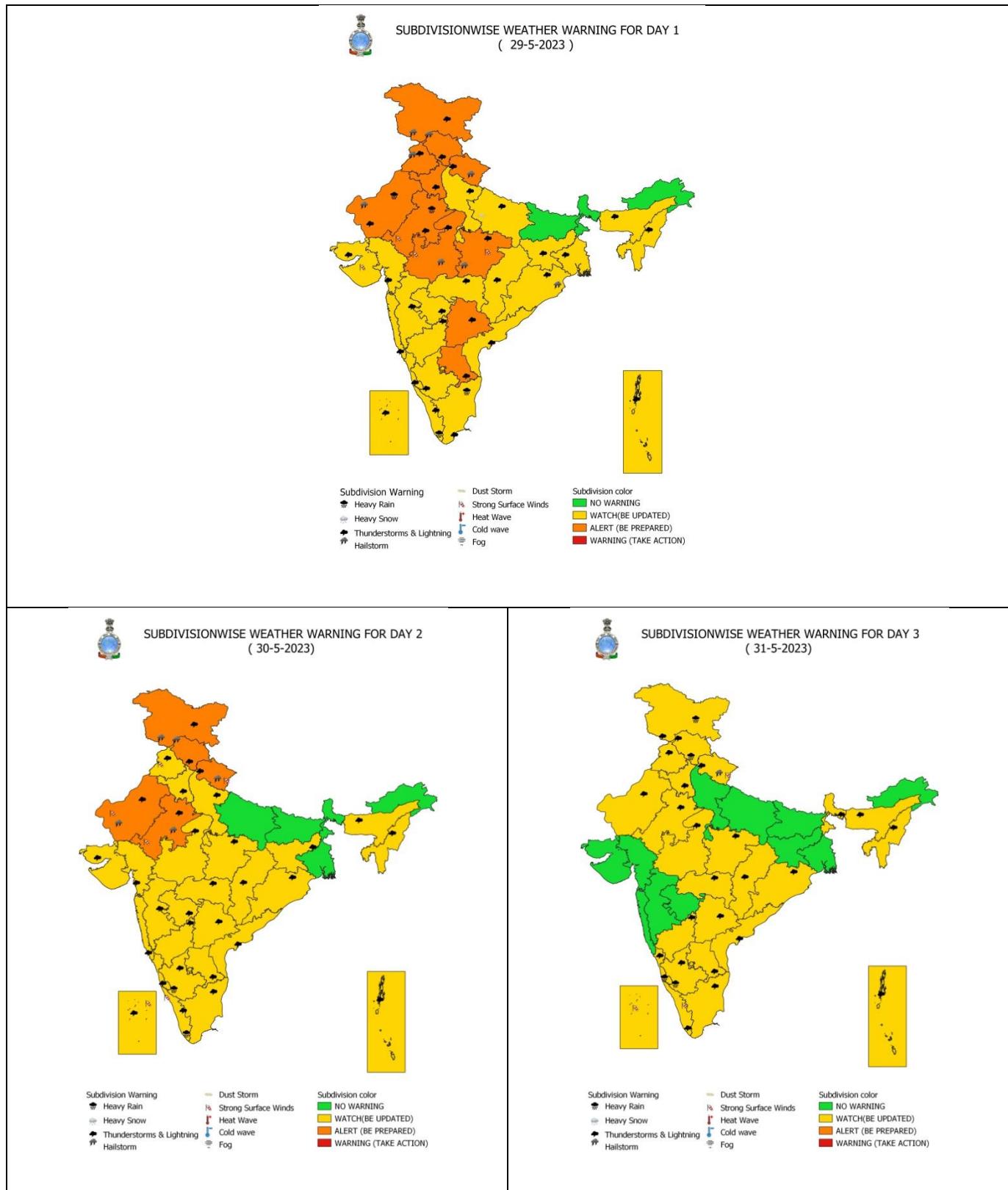
<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

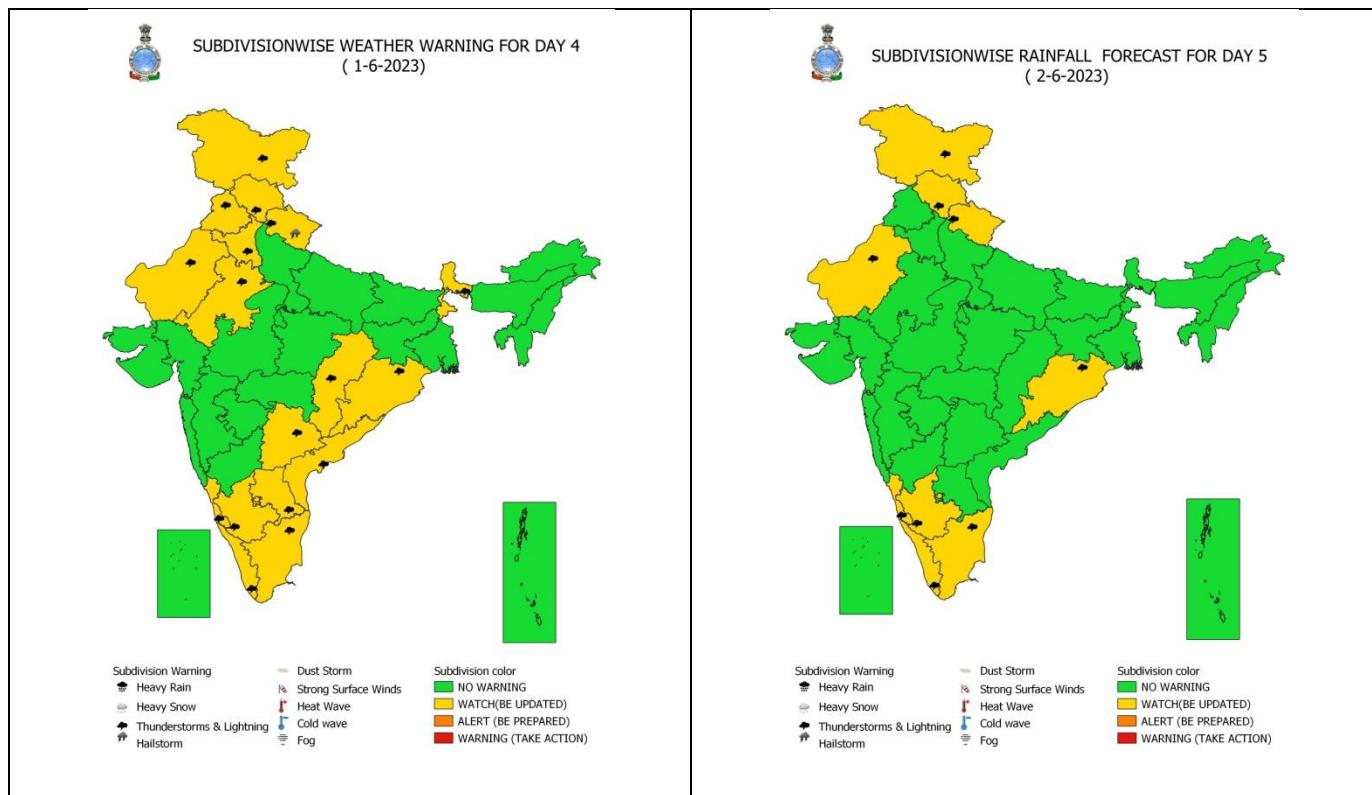
**Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- **Rainfall/thundershowers** observed **at most places** over Rajasthan; **at many places** over Lakshadweep, Gujarat Region; **at a few places** over Andaman & Nicobar Islands, Arunachal Pradesh, Haryana, Chandigarh & Delhi, Madhya Pradesh, East Rajasthan and **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra, Marathawada, Madhya Maharashtra, interior Karnataka, Telangana, Rayalaseema, Coastal Andhra Pradesh, Tamilnadu, Puducherry & Karaikal and Kerala.
- **Heavy Rainfall** observed at isolated places over Rajasthan, East Madhya Pradesh and Gujarat region.
- **Significant rainfall recorded** (in cm): **East Rajasthan:** Kumbhalgarh Sr (dist Rajsamand) 8, Sabla Sr (dist Dungarpur) 5, Aspur (dist Dungarpur) 4, Dungarpur Tehsil Sr (dist Dungarpur) 4, Deogarh (dist Rajsamand) 4, **West Rajasthan:** Erinpura/jawai Dam (dist Pali) 8, Bikaner (pbo) (dist Bikaner) 7; **East Madhya Pradesh:** Patharia (dist Damoh) 8, Amarwara (dist Chindwara) 5, Rehli (dist Sagar) 5, **West Madhya Pradesh:** Nagda (dist Ujjain) 6, Tal (dist Ratlam) 5, **Tamil Nadu:** Sivaganga (dist Sivaganga), Elanthakutti Medu (dist Erode) 4 each, **Kerala:** Idamalayar Dam AWS (Ernakulam district) 4, **South Interior Karnataka:** Balehonnur (dist Chikkamagaluru) 5, **Rayalaseema:** Palamaner (dist Chittoor) 4, **Telangana:** Wankdi (dist Kumaram Bheem) 3, Aswaraopeta (dist B. Kothagudem) 3, **Gujarat Region:** Becharaji (dist Mehsana) 7, Abad City (dist Ahmedabad) 5, Danta (dist Banaskantha) 5, **Saurashtra:** Shihor (dist Bhavnagar) 4, **Odisha:** Nuagada (dist Gajapati) 4.
- **Hailstorm** observed at isolated places over Madhya Pradesh and Rajasthan.
- **Thundersquall speed reaching 60-70 kmph** reported at isolated places over East Uttar Pradesh, Rajasthan and West Madhya Pradesh.



### Annexure III





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

**29<sup>th</sup> May:** Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Telangana, Rayalaseema

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

**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 kutch 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 arrangements for draining out excess water from crop fields to avoid water stagnation in Rajasthan, Tamil Nadu, Kerala and South Interior Karnataka.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Use hail nets to protect orchards in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Odisha, Madhya Pradesh and Telangana.

## 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