



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

**Press Release  
Date: 01<sup>st</sup> May, 2023  
Time of Issue: 1400 hours IST**

- Subject: (i) Enhanced thunderstorm activity likely to continue over the country during 01<sup>st</sup> & 02<sup>nd</sup> May.  
(ii) Moderate to severe thunderstorm accompanied with lightning, gusty winds & hailstorm over Northwest, Central, East and southeast peninsular India during 01<sup>st</sup>-02<sup>nd</sup> May and decrease gradually thereafter.  
(iii) Isolated heavy rainfall likely over Northwest India (Jammu region, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> May) and decrease thereafter  
(iv) Isolated heavy to very heavy rainfall over South India (Andhra Pradesh, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe) during 01<sup>st</sup>-03<sup>rd</sup> May and decrease thereafter.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I for details)**

- ❖ **Rainfall/thundershowers observed: at most places** over Arunachal Pradesh, West Bengal & Sikkim, Uttarakhand, Vidarbha, Chhattisgarh, Telangana, Rayalaseema; **at many places** over Assam & Meghalaya, Himachal Pradesh, Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat region, Kerala, Coastal Andhra Pradesh & Yanam, Lakshadweep; **at a few places** over Haryana, Chandigarh & Delhi, Odisha, Jharkhand, Bihar, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and **at isolated places** over Punjab, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra, Marathwada and Konkan & Goa. **Heavy to very heavy rainfall** at isolated places over Telangana and **heavy rainfall** at isolated places over Madhya Pradesh, East Rajasthan, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Rayalaseema, Kerala and Tamil Nadu. **Hailstorm Observed** at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Gangetic West Bengal, Bihar, Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathwada. **Thundersquall observed** at isolated places over Gangetic West Bengal.

**Significant Meteorological features:**

- ❖ A Western Disturbance as a cyclonic circulation lies over Haryana & neighbourhood in lower to upper tropospheric levels.
- ❖ Another Western Disturbance as a cyclonic circulation lies over south Pakistan in middle tropospheric levels.
- ❖ An Induced Cyclonic Circulation lies over northwest Rajasthan in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from west Vidarbha to South Interior Karnataka in lower tropospheric levels.

**Forecast and warning for next 5 days**

**Northwest India:**

- ❖ Light to moderate fairly widespread to widespread rainfall/snowfall with **thunderstorm/lightning/gusty winds (wind speed 30-50 kmph)** very likely over Northwest India during next 2 days and gradually reduction thereafter.
- ❖ **Hailstorm** activity very likely at isolated places over Uttarakhand during next 5 days; over Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh & Uttar Pradesh during 01<sup>st</sup> & 02<sup>nd</sup> May; over East Rajasthan on 01<sup>st</sup> May.
- ❖ **Thundersquall (wind speed 50-60 kmph)** very likely over Uttarakhand on 02<sup>nd</sup> & 03<sup>rd</sup> May.
- ❖ **Heavy rainfall** very likely at isolated places over Jammu division, Himachal Pradesh & Uttarakhand on 01<sup>st</sup> & 02<sup>nd</sup> May; Haryana, West Uttar Pradesh on 01<sup>st</sup> May over Punjab on 02<sup>nd</sup> May.
- ❖ **Duststorm** very likely at isolated places over West Rajasthan on 04<sup>th</sup> May.

**Central India:**

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 3 days(1-3 May) and reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh today 1 May and over East Madhya Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> May.

### **East India:**

- ❖ Light/moderate scattered to fairly widespread **rainfall** with thunderstorm/lightning/gusty winds very likely over the region during next 3 days and gradual reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over Jharkhand on 01st May and Gangetic West Bengal on 01<sup>st</sup> & 03<sup>rd</sup> May.
- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim during 01<sup>st</sup>-02<sup>nd</sup> May and over Odisha on 01st May.

### **South India:**

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 4 days.
- ❖ **Heavy to very Heavy rainfall** at isolated places over Coastal Andhra Pradesh, Rayalaseema & Tamil Nadu on 01st May and isolated **heavy rainfall** over South Interior Karnataka, Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala & Tamil Nadu during 01st-03rd May.
- ❖ **Hailstorm** very likely at isolated places over Telangana on 01<sup>st</sup> & 02<sup>nd</sup> May.

### **Northeast India:**

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya during 01<sup>st</sup>-04<sup>th</sup> May.

### **West India:**

- ❖ Light isolated rainfall with thunderstorm/lightning very likely over the region during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Marathawada on 01<sup>st</sup> & 02<sup>nd</sup> May.

### **Maximum Temperatures Forecast and Heat Wave Warnings (Graphics in Annexure II):**

- ❖ Maximum temperatures are very likely to be below normal to near normal during next 5 days.
- ❖ **No Heat wave conditions likely over any part of India during next 5 days.**

For more details kindly refer:

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

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

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

- ❖ 01st May: Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Jharkhand, Odisha, Marathawada, Telangana
- ❖ 02nd May: Uttar Pradesh, Punjab, Haryana, Chandigarh, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Marathawada
- ❖ 03rd May: Gangetic West Bengal

### **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.

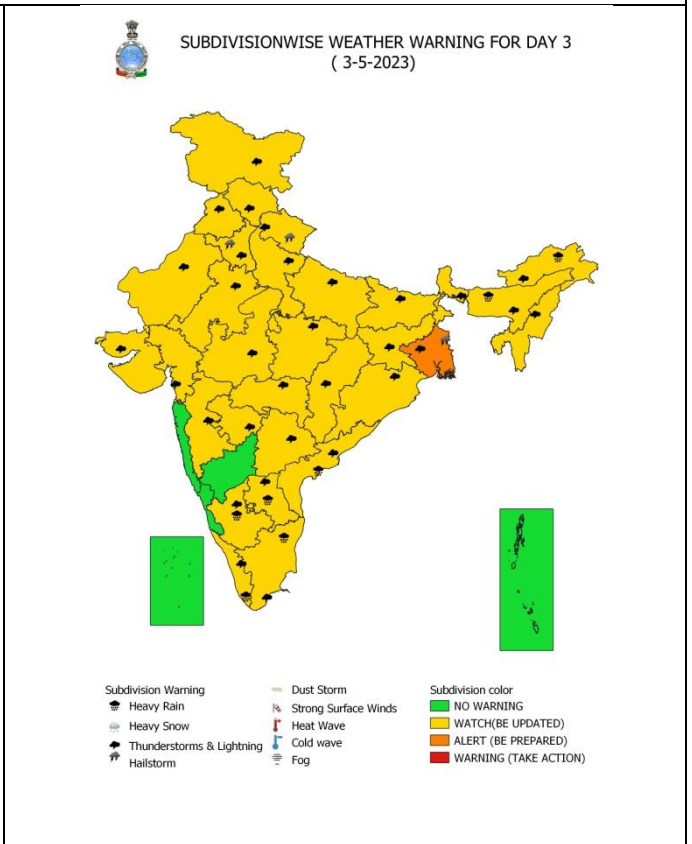
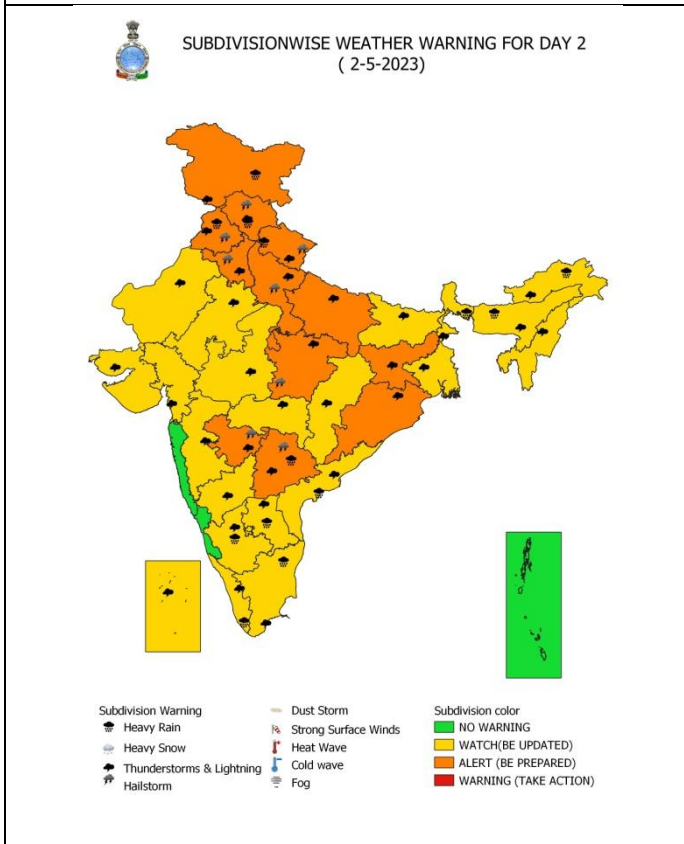
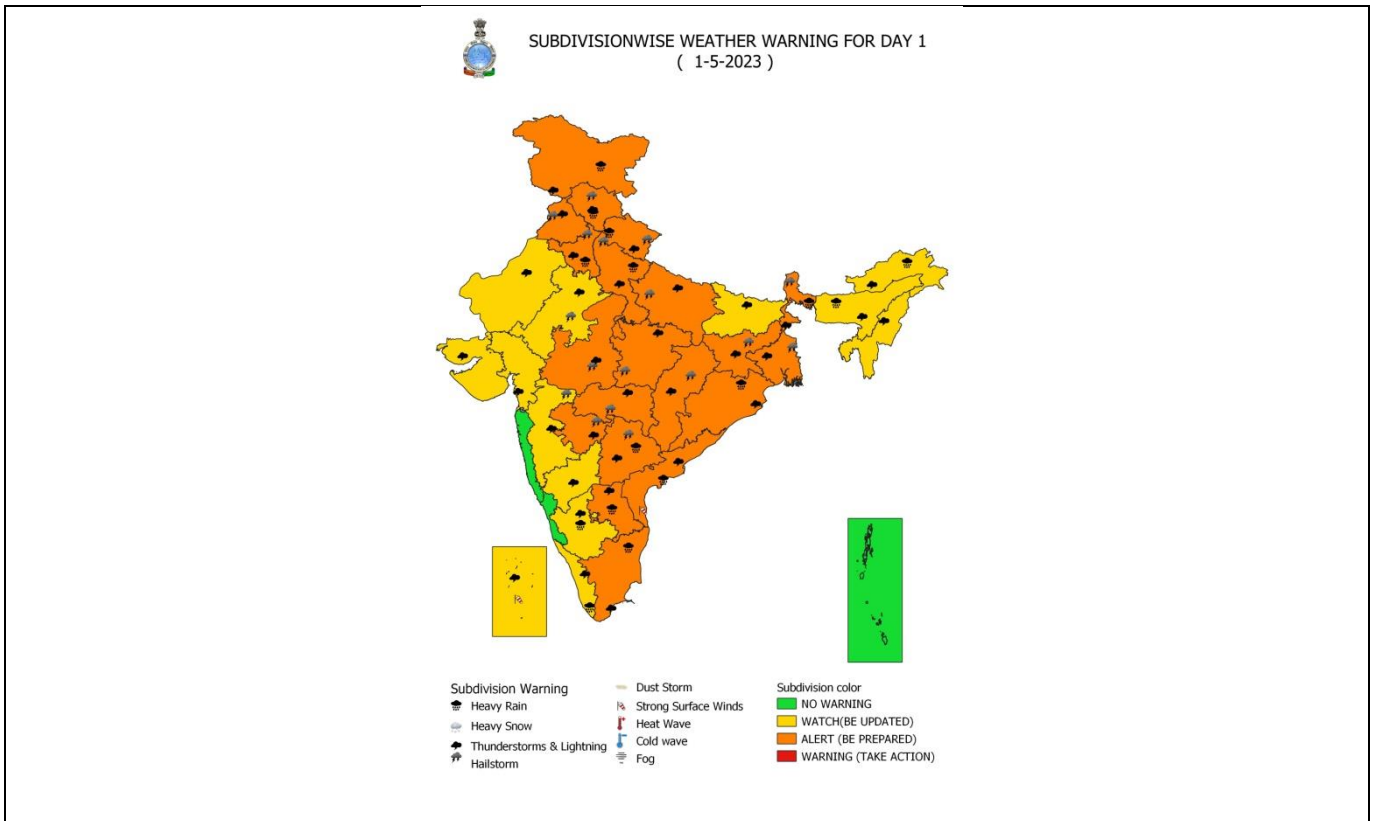
**Agromet advisories for thunderstorms/lightning/gusty winds/ Hailstorm likely over various parts of the country:**

- ❖ Keep Postpone harvesting of green gram and black gram in Tamilnadu; wheat in Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- ❖ Complete harvesting of matured rice in Kerala, Odisha and Interior Karnataka during clear weather.
- ❖ Continue harvesting of matured maize, fruits (grapes, pomegranate, mango etc.), onion and other vegetables in Madhya Maharashtra, Marathwada and Vidarbha during clear weather.
- ❖ Keep the harvested produce of crops in safe places.
- ❖ Drain out excess water from crop fields to avoid water stagnation in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Sub Himalayan West Bengal, Odisha, Madhya Pradesh, Vidarbha, Tamil Nadu, Kerala, South Interior Karnataka, Andhra Pradesh and Telangana.
- ❖ Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, East Rajasthan, Madya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada, Vidarbha, Gangetic West Bengal, Jharkhand and Telangana.
- ❖ Provide mechanical support to horticultural crops and staking to vegetables.

## Annexure I

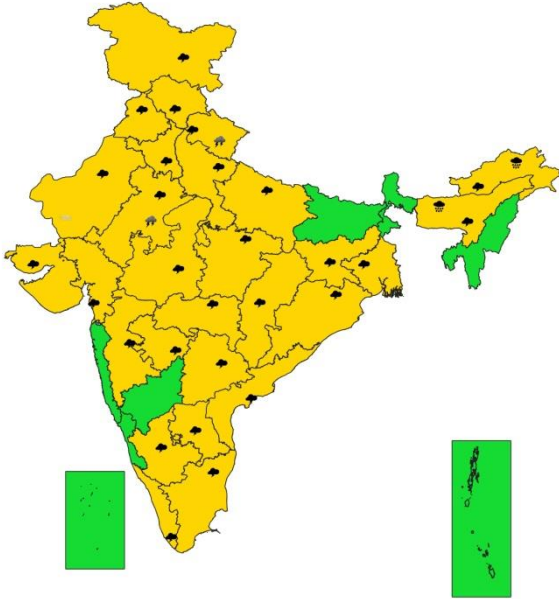
### Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Rainfall/thundershowers observed: at most places** over Arunachal Pradesh, West Bengal & Sikkim, Uttarakhand, Vidarbha, Chhattisgarh, Telangana, Rayalaseema; **at many places** over Assam & Meghalaya, Himachal Pradesh, Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat region, Kerala, Coastal Andhra Pradesh & Yanam, Lakshadweep; **at a few places** over Haryana, Chandigarh & Delhi, Odisha, Jharkhand, Bihar, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and **at isolated places** over Punjab, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra, Marathwada and Konkan & Goa. **Heavy to very heavy rainfall** at isolated places over Telangana and **heavy rainfall** at isolated places over Madhya Pradesh, East Rajasthan, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Rayalaseema, Kerala and Tamil Nadu. **Hailstorm Observed** at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Gangetic West Bengal, Bihar, Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathwada. **Thundersquall observed** at isolated places over Gangetic West Bengal.
- ❖ **Significant rainfall recorded**(in cm): **Tamil Nadu:** Chamraj Estate (dist Nilgiris), Coonoor (dist Nilgiris), Coonoor PTO (dist Nilgiris), Valparai PTO (dist Coimbatore) 7 each, **Coastal Andhra Pradesh:** Palnadu: Macherla-10, B. R Ambedkar Konaseema: Amalapuram-7, Eluru: Koyyalgudem-7, **Telangana:** Palakurthi (dist Jangaon) 13, Devaruppal (dist Jangaon) 12, Velagatoor (dist Jagtial) 9, Dharmasagar (dist Hanumakonda) 9, Zaffergadh (dist Jangaon) 9, Karimnagar (dist Karimnagar) 9, **Rayalaseema:** YSR ditric-10, Kurnool-7, Nandyal-6, , **Kerala:** Ottappalam (Palakkad district) 9, Kurudamannil (Pathanamthitta district) 7, **Sub-Himalayan West Bengal & Sikkim:** North Sikkim-7, Darzeeling-5, **Himchal Prdaesh:** Kangra, Shimla-5 each, **Odisha:** Kandhamal-8, **Uttarakhand:** Nainital-5, **Punjab:** Patti (dist Tarn Taran) 5, **East Rajasthan:** Bhilwara: Shahpura-7, **Madhya Pradesh:** Datia-aws (dist Datia) 8, Sausar (dist Chindwara) 7, Khajuraho Aero (dist Chhatarpur) 5, **West Uttar Pradesh:** Sambhal, Bareilly-7 each, Moradabad-6, Bulandshahar-5, **Arunachal Pradesh:** Mukto\_arg (dist Tawang) 5, Tawang\_ Aws (dist Tawang) 5, **Vidarbha:** Nagbhir (dist Chandrapur) 6.





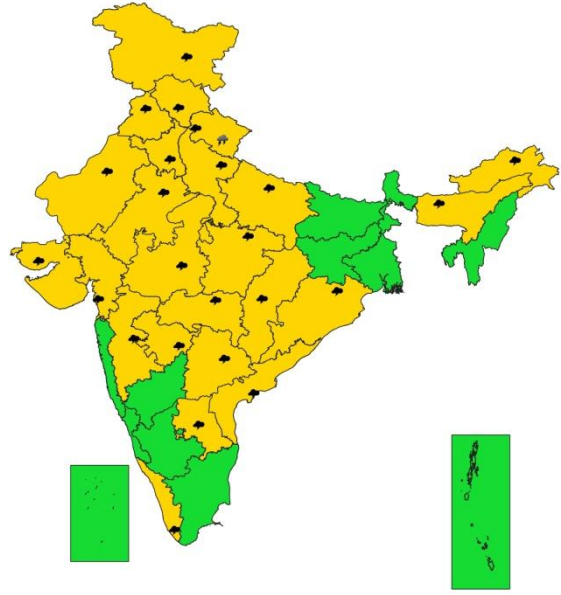
### SUBDIVISIONWISE WEATHER WARNING FOR DAY 4 ( 4-5-2023)



- |                             |                        |                         |
|-----------------------------|------------------------|-------------------------|
| 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) |



### SUBDIVISIONWISE WEATHER WARNING FOR DAY 5 ( 5-5-2023)



- |                             |                        |                         |
|-----------------------------|------------------------|-------------------------|
| 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) |














**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