



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

**Press Release**

**Date: 21<sup>st</sup> June, 2023**

**Time of Issue: 1315 hours IST**

**Subject: i) Heat Wave conditions over East India & adjoining Central India areas likely to abate from 23<sup>rd</sup> June.**

**ii) Very heavy to extremely heavy falls over Northeast India and Sub-Himalayan West Bengal & Sikkim very likely to continue during next 2 days and decrease gradually thereafter.**

**iii) Conditions continue to be favorable for further advance of Southwest Monsoon over some more parts of south Peninsular India, some parts of Odisha, some more parts of Gangetic West Bengal, Jharkhand, Bihar and some parts of East Uttar Pradesh during next 2-3 days.**

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

**Advance of Southwest Monsoon**

- ❖ Conditions are favorable for further advance of Southwest Monsoon over some more parts of south Peninsular India, some parts of Odisha, some more parts of Gangetic West Bengal, Jharkhand, Bihar and some parts of East Uttar Pradesh during next 2-3 days.

**Significant Weather features, Forecast and Warning during next 5 days: (Annexure II)**

**(A) Low Pressure Area (Remnant of Cyclonic Storm ‘Biparjoy’) over central parts of Uttar Pradesh**

A **Low Pressure Area** lies over central parts of Uttar Pradesh. Under its influence:

**Heavy Rainfall Warning:**

- Light to moderate rainfall at many places with isolated heavy rainfall is very likely over Uttar Pradesh on 21<sup>st</sup> June.

**(B) Weather Forecast and Warning for rest parts of the country due to strengthening of the Monsoon Flow over the Indian subcontinent:**

**Northeast & adjoining East India:**

- ❖ Light/moderate rainfall at most places with isolated thunderstorm & lightning very likely during next 5 days.
- ❖ Isolated **extremely heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 20<sup>th</sup>-21<sup>st</sup> and west Assam on 21<sup>st</sup> June and isolated **Heavy to Very Heavy falls** on 22<sup>nd</sup> June.
- ❖ Isolated **heavy rainfall** also likely over Bihar, Jharkhand on 21<sup>st</sup> & 22<sup>nd</sup>; Gangetic West Bengal on 22<sup>nd</sup> & 23<sup>rd</sup>, and Odisha during 21<sup>st</sup>-25<sup>th</sup> with isolated **Very Heavy falls** over Odisha 23<sup>rd</sup> and 24<sup>th</sup> June.

**Northwest & adjoining Central India:**

- ❖ Light/moderate fairly widespread rainfall with isolated thunderstorm & lightning over Himachal Pradesh, Uttarakhand, East Uttar Pradesh during 23<sup>rd</sup>-25<sup>th</sup> and isolated to scattered rainfall over plains of Northwest India on 24<sup>th</sup> & 25<sup>th</sup> June.
- ❖ Isolated **heavy rainfall** very likely over Uttarakhand during 23<sup>rd</sup>-25<sup>th</sup>; Uttar Pradesh on 25<sup>th</sup>; over East Madhya Pradesh, Chhattisgarh and Vidarbha on 24<sup>th</sup> & 25<sup>th</sup> June.

### South India:

- ❖ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm & lightning very likely over the region during next 5 days.
- ❖ **Isolated Heavy rainfall** also likely over South Interior Karnataka on 21<sup>st</sup>; Coastal Andhra Pradesh during 21<sup>st</sup>-25<sup>th</sup> and Coastal & North Interior Karnataka on 24<sup>th</sup> & 25<sup>th</sup> June.

### West India:

- ❖ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm & lightning very likely over the region during 22<sup>nd</sup>-24<sup>th</sup> June.
- ❖ **Isolated Heavy rainfall** also likely over south Konkan & Goa during 23<sup>rd</sup>-25<sup>th</sup>; over Madhya Maharashtra on 24<sup>th</sup> & 25<sup>th</sup> June.

### Maximum Temperatures and Heat Wave warning (Graphics in Annexure III):

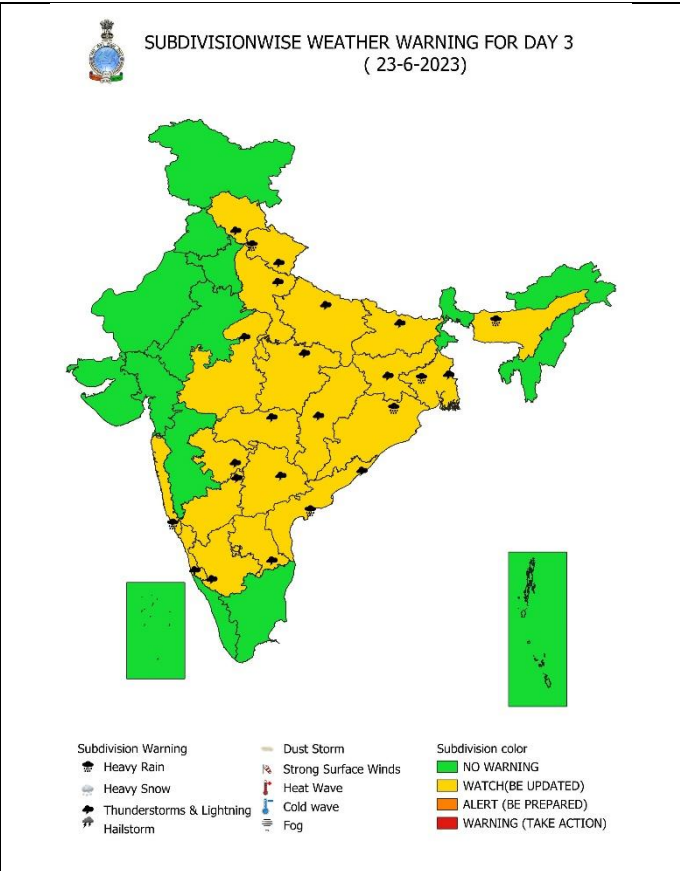
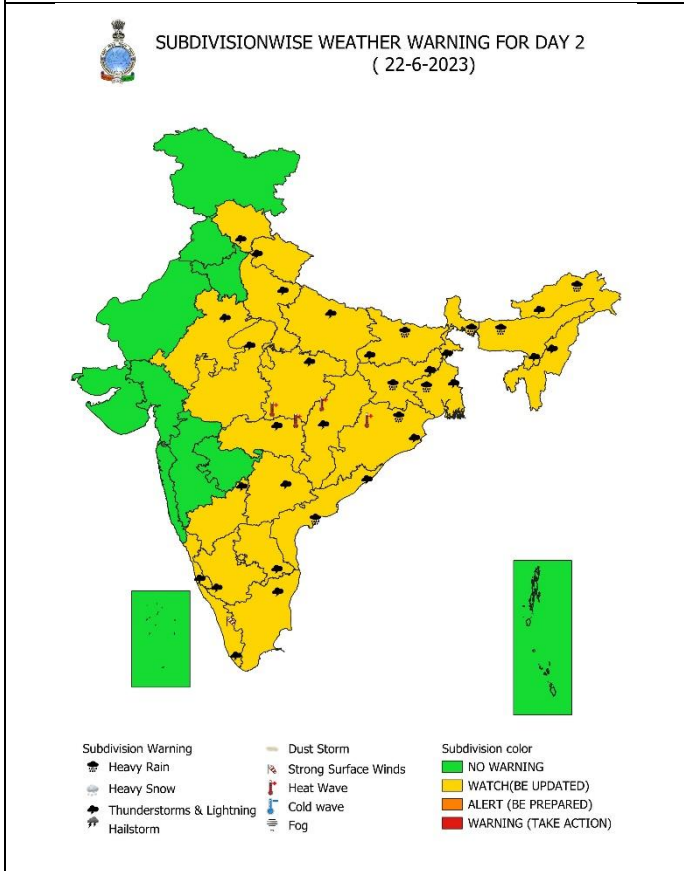
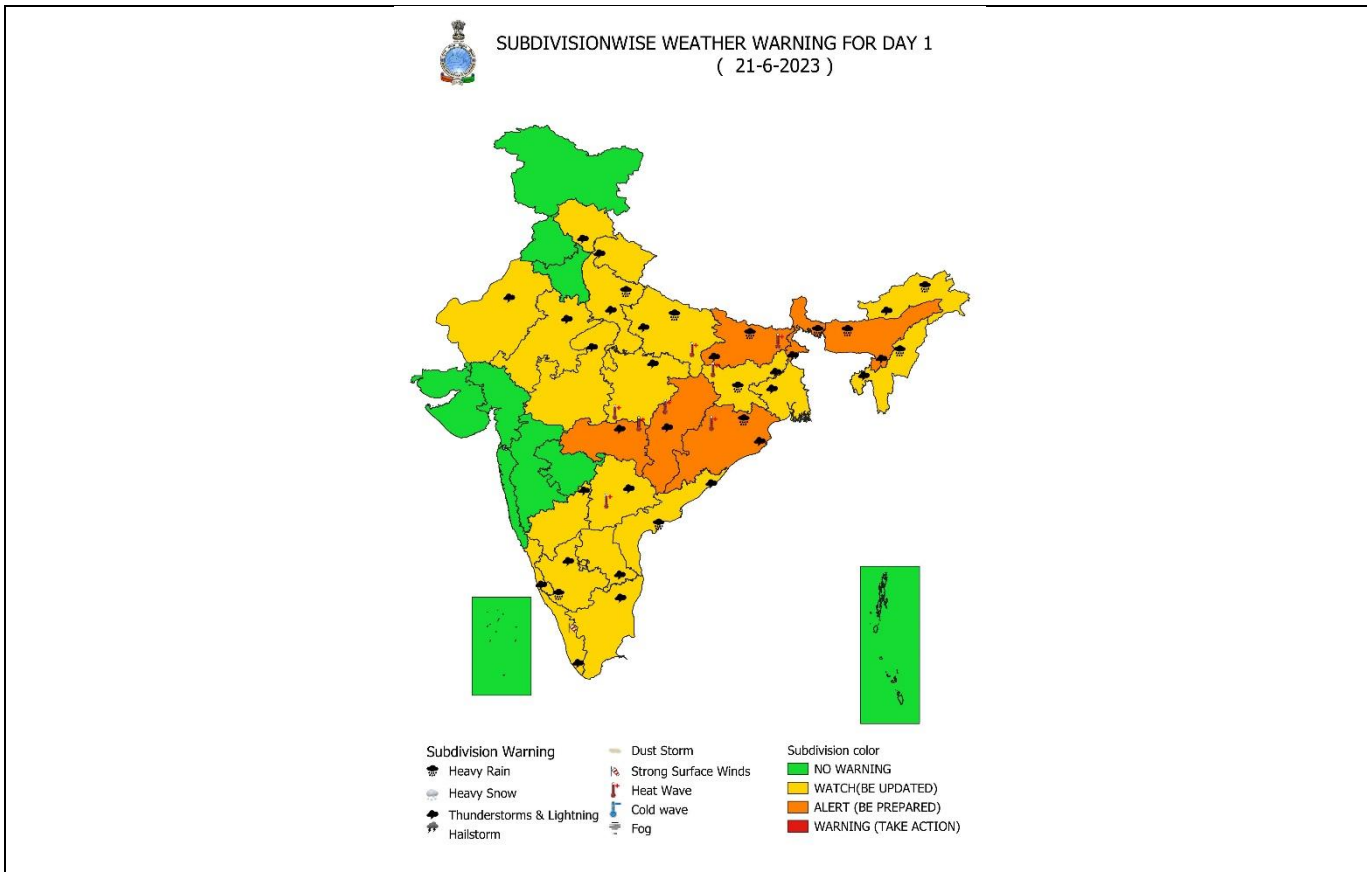
- ❖ Yesterday, Maximum Temperatures were in the range of 40-43°C over some parts of Chhattisgarh, Vidarbha; some parts of Bihar and isolated parts of interior Odisha, Telangana, East Uttar Pradesh, Jharkhand. Above normal 6-8° C at some parts over Chhattisgarh, Vidarbha, interior Odisha; 4-6° C over Telangana, Jharkhand, East Madhya Pradesh, south Madhya Maharashtra, North Interior Karnataka and normal/below normal over rest parts of the country.
- ❖ Yesterday, **Heat Wave to Severe Heat Wave conditions** prevailed over many parts of Chhattisgarh and Vidarbha; over some parts of East Madhya Pradesh and Interior Odisha. **Heat Wave conditions** prevailed in some parts of Telangana and in isolated pockets over East Uttar Pradesh, Bihar and Jharkhand.
- ❖ **Heat Wave/Severe Heat Wave conditions** have been prevailing over Odisha, Jharkhand, Telangana & north Coastal Andhra Pradesh for last 12-14 days and over East Uttar Pradesh, East Madhya Pradesh, Bihar, Chhattisgarh & Vidarbha for last 8-10 days.
- ❖ Fall by 2-4°C in maximum temperatures very likely over Northwest, Central and East India during next 4-5 days.
- ❖ **Heat Wave to severe heat wave conditions** very likely to continue in isolated pockets over Vidarbha, Chhattisgarh, interior Odisha on 21<sup>st</sup> & 22<sup>nd</sup> and **heat wave conditions** in isolated pockets over Bihar, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Telangana on 21<sup>st</sup> June and abatement of heat wave conditions over the region thereafter.

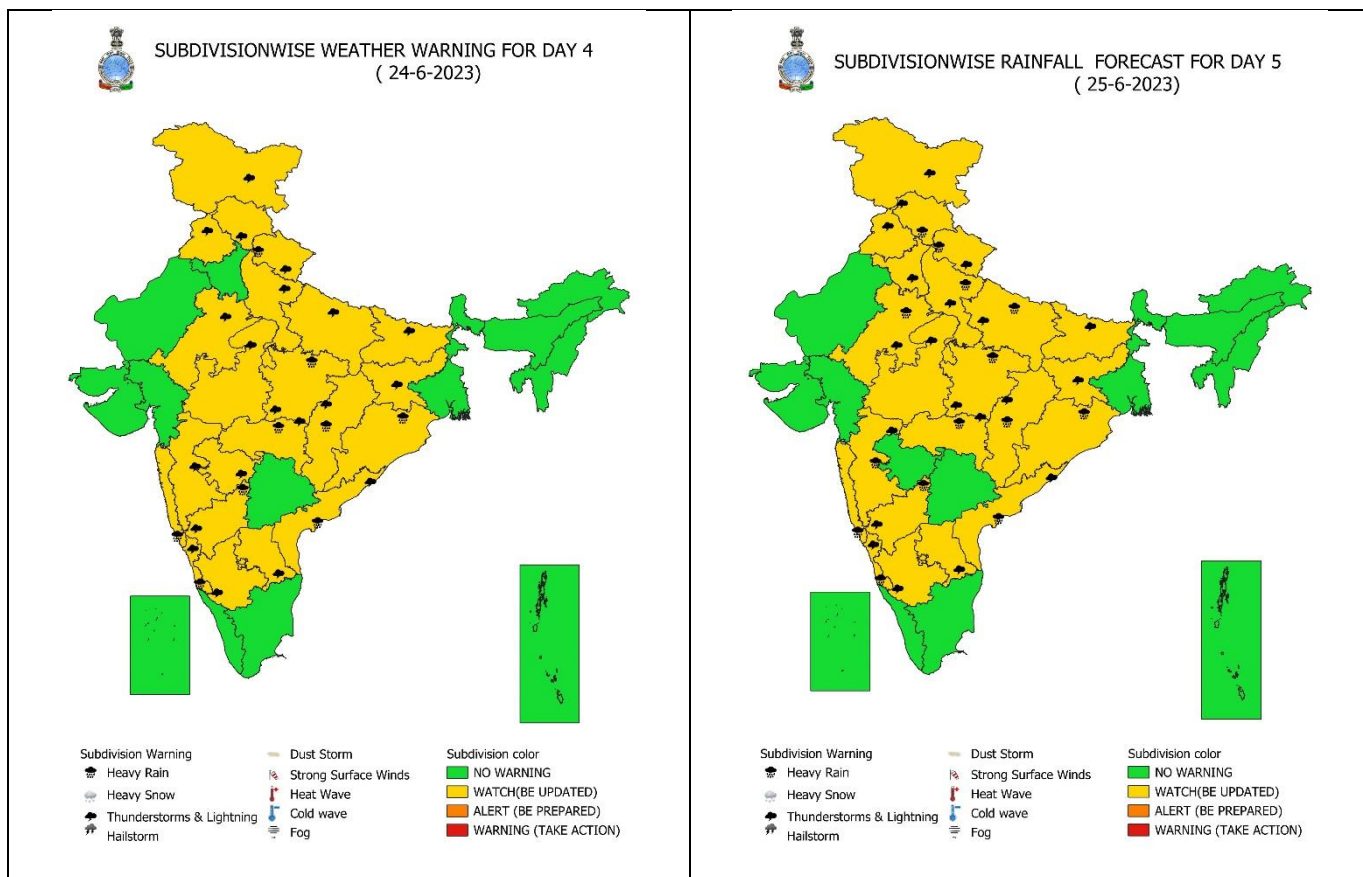
For more details kindly refer:

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

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

- ❖ **Rainfall/thundershowers observed: at most places over** Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **at many places** over Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Uttar Pradesh, Rayalaseema, Coastal & South Interior Karnataka and Lakshadweep; **at a few places** over Andaman & Nicobar Islands, Bihar, Himachal Pradesh, East Rajasthan, West Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall with extremely heavy falls at isolated places over Sub-Himalayan West Bengal & Sikkim, west Assam; Heavy to very heavy rainfall at isolated places Arunachal Pradesh, Meghalaya, West Uttar Pradesh and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Odisha, Tamil Nadu, Kerala, South Interior Karnataka and Tripura.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **East Rajasthan:** Phagi (dist Jaipur) 6, **Arunachal Pradesh:** Pasighat\_ Aero (dist East Siang) 10, Tezu (dist Lohit) 9, Roing (dist Lower Dibang Valley) 8, **Assam & Meghalaya:** Melabazar/matunga (dist Nalbari) 23, Goibargaon (dist Baksa) 20, Tamulpur (dist Baksa) 19, Drf (dist Baksa) 19, Hazuah (dist Barpeta) 18, Panbari (dist Chirang) 17, Beky Rly.bridge (dist Barpeta) 16, Shella (dist East Khasi Hills) 16, Barpeta (dist Barpeta) 16, Gossaigaon (dist Kokrajhar) 16, Kokrajhar (dist Kokrajhar) 15, Cherrapunji (dist East Khasi Hills) 13, Bijni Arg (dist Chirang) 12, **Tripura:** Kailashahar Aero (dist Unakoti) 7; **Sub-Himalayan west Bengal & Sikkim:** Jalpaiguri-23, Cooch Behar-13; **Odisha:** Dabugan (dist Nawarangpur) 7; **Himachal Pradesh:** Sirmaur-6; **Uttarakhand:** Uttarkashi: Barkot-7, **West Uttar Pradesh:** Mainpuri-13, **East Uttar Pradesh:** Barabanki-11, Baharaich-7, **Tamil Nadu:** Budalur (dist Thanjavur) 7, Kil Kotagiri Estate (dist Nilgiris) 6, Hogenekal (dist Dharmapuri), Minnal (dist Ranipet), Vedaranyam (dist Nagapattinam) 5 each, **Kerala & Mahe:** Mannarkkad (Palakkad district) 7 cm, **South Interior Karnataka:** Nayakanahatty (dist Chitradurga) 7, Bargur (dist Tumakuru) 6, Chamarajanagar (dist Chamarajanagar) 5, Malavalli (dist Mandya) 5, Malavalli Arg (dist Mandya) 5, **Coastal Andhra Pradesh:** Vepada (dist Vizianagaram) 7, Chodavaram (dist Anakapalli) 6, Paderu (dist Alluri Sitharamaraju) 6, Kandukur (dist Spsr Nellore) 5, Tenali (dist Guntur) 5, **Rayalaseema:** Gurramkonda (dist Annamayya District) 5, Nambulipulikunta (dist Sri Sathyasai District) 5, **Telangana:** Tekulapalle (dist B. Kothagudem) 5,





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

#### ❖ Yellow alert Areas:

- Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure, Wear lightweight, light colour, loose, cotton clothes, Cover your head, use a cloth, hat or umbrella.

#### ❖ Orange alert Areas:

- High temperature, Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work. High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Drink sufficient water- even if not thirsty, Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

### Agromet advisories for rainfall, thunderstorms/gusty winds and heatwave likely over various parts of the country

- Make arrangements for draining out excess water from crop fields to avoid water stagnation in Uttar Pradesh, West Bengal, Sikkim, Odisha, Bihar, Jharkhand, Coastal Andhra Pradesh, South Interior Karnataka and North Eastern States.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Apply light and frequent irrigation to standing crops in East Madhya Pradesh, Vidarbha, Chhattisgarh and Telangana.

**IMPACT & ACTION SUGGESTED due to extremely heavy rainfall** over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya on 21<sup>st</sup> June.

**A. Impact Expected**

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

**B. Action Suggested**

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

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

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