



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

**Press Release**

**Date: 01<sup>st</sup> August, 2023**

**Time of Issue: 1330 hours IST**

- Subject: i) Deep Depression over Northeast Bay of Bengal off Bangladesh coast**  
**ii) Isolated heavy to very heavy rainfall activity likely over east and eastcentral India during next 3-4 days with extremely heavy falls likely over south Gangetic West Bengal today, north Odisha on 01<sup>st</sup> & 02<sup>nd</sup> and east Madhya Pradesh on 03<sup>rd</sup> August, and decrease thereafter.**  
**iii) Increase in rainfall activity over northwest India during 03<sup>rd</sup>-06<sup>th</sup> August.**  
**iv) Increase in rainfall activity along Konkan coast & adjoining Madhya Maharashtra during next 3 days and reduction in rainfall activity would continue over peninsular India during next 5 days.**

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

**Significant Weather features:**

- ❖ **Deep Depression over Northeast Bay of Bengal off Bangladesh coast:** Yesterday's **Well Marked Low Pressure Area** over central parts of North Bay of Bengal intensified into a Depression over Northeast Bay of Bengal at 0530 hrs IST of today and further intensified into a Deep Depression and lay centred at 0830 hours IST of today, the 1<sup>st</sup> August, 2023 over the northeast Bay of Bengal off Bangladesh coast near latitude 21.2°N and longitude 91.2°E, about 160 km east-southeast of Khepupara (Bangladesh) and 420 km east of Digha (West Bengal). It is likely to move northwestwards and cross Bangladesh coast close to east of Khepupara by evening of today, the 1<sup>st</sup> August. Thereafter, it is very likely to move west-northwestwards across Gangetic West Bengal during subsequent 24 hours.
- ❖ The Western end of the Monsoon Trough at mean sea level runs close to foothills of the Himalayas and the Eastern end now passes through Gorakhpur, Patna, Sriniketan, Canning, center of Deep Depression and thence east-southeastwards to Eastcentral Bay of Bengal. The eastern end of the Monsoon trough likely to shift northwards towards foothills of the Himalayas by 06<sup>th</sup> August.

**Weather Forecast and Warning (Annexure II):**

**East India:** Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning and **heavy to very heavy rainfall** at isolated places very likely over Bihar during 01<sup>st</sup>-05<sup>th</sup> August; Odisha during 01<sup>st</sup>-03<sup>rd</sup> August; over Gangetic West Bengal and Jharkhand during 01<sup>st</sup>-02<sup>nd</sup> August; over Sub-

Himalaya West Bengal & Sikkim during 01<sup>st</sup>-04<sup>th</sup> August.

**Isolated extremely heavy rainfall also very likely over Odisha on 01<sup>st</sup> & 02<sup>nd</sup> and over Gangetic West Bengal on 01<sup>st</sup> August, 2023.**

**Central India:** Light/moderate scattered to fairly widespread rainfall with isolated **heavy to very heavy rainfall** is very likely over East Madhya Pradesh during 01<sup>st</sup>-04<sup>th</sup>; north Chhattisgarh during 01<sup>st</sup>-03<sup>rd</sup>; west Madhya Pradesh during 02<sup>nd</sup>-04<sup>th</sup> and Vidarbha on 02<sup>nd</sup> August. **Isolated extremely heavy rainfall also likely over East Madhya Pradesh on 03<sup>rd</sup> August.**

**Northwest India:** Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, East Uttar Pradesh during 01<sup>st</sup>-05<sup>th</sup> August; Himachal Pradesh, Haryana, West Uttar Pradesh during 03<sup>rd</sup>-05<sup>th</sup> August; West Uttar Pradesh & East Rajasthan during 02<sup>nd</sup>-05<sup>th</sup> August.

**Isolated very heavy rainfall also likely over East Uttar Pradesh during 01<sup>st</sup>-03<sup>rd</sup>; Uttarakhand during 03<sup>rd</sup>-05<sup>th</sup>; Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>; West Uttar Pradesh and East Rajasthan on 03<sup>rd</sup> August.**

**Northeast India:** Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over the region during next 5 days with isolated **very heavy rainfall** over Tripura on 01<sup>st</sup> August, 2023.

**West India:** Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during next 5 days, Marathwada on 02<sup>nd</sup> August and over Gujarat Region on 01<sup>st</sup>, 04<sup>th</sup> & 05<sup>th</sup> August, 2023.

**South India:** Light/moderate widespread rainfall with **isolated heavy rainfall** very likely over Coastal Karnataka during 02<sup>nd</sup>-04<sup>th</sup> August, Coastal Andhra Pradesh on 01<sup>st</sup> August and reduced rainfall activity over the remaining regions.

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)

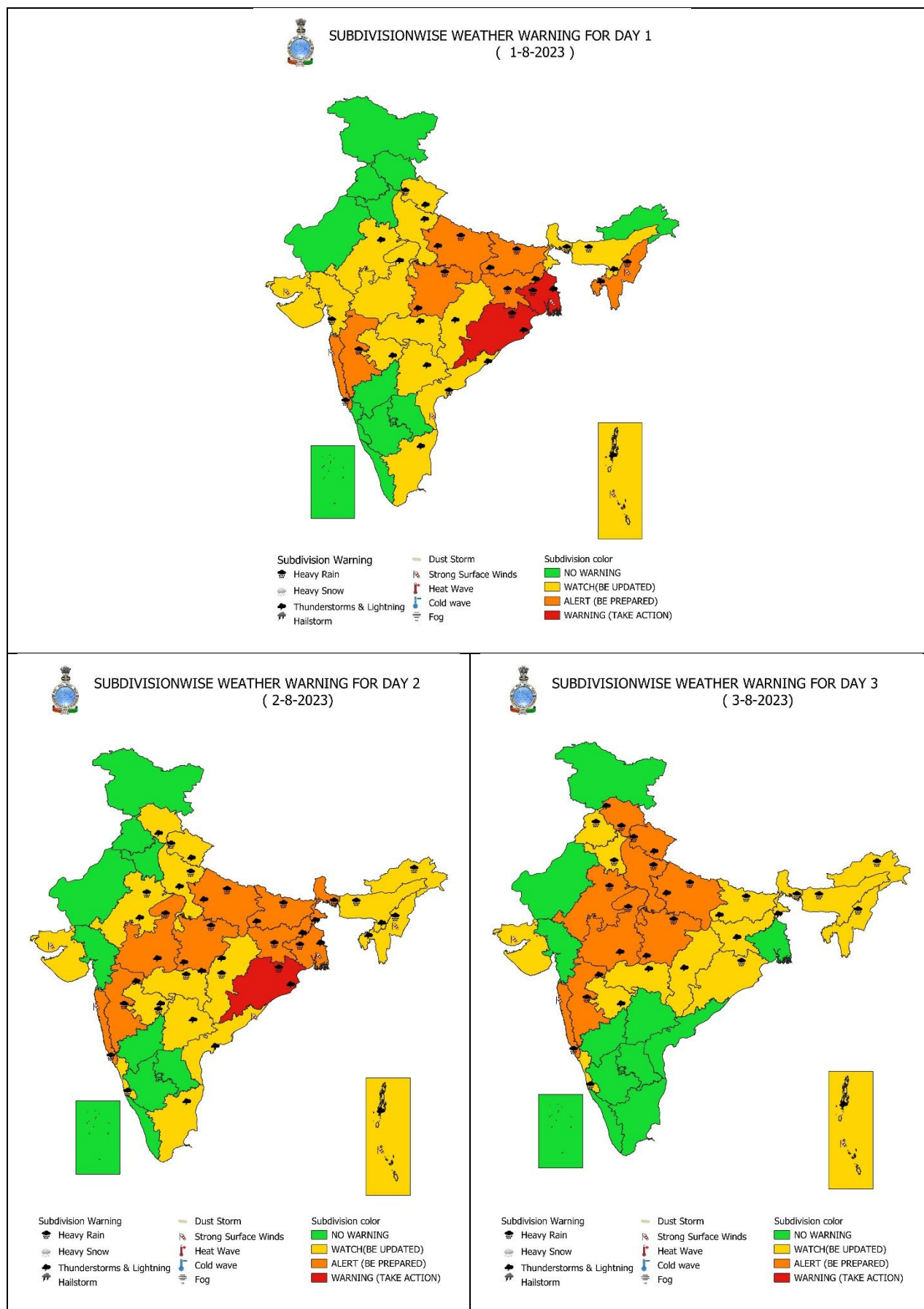
**Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 01<sup>st</sup> August, 2023):**

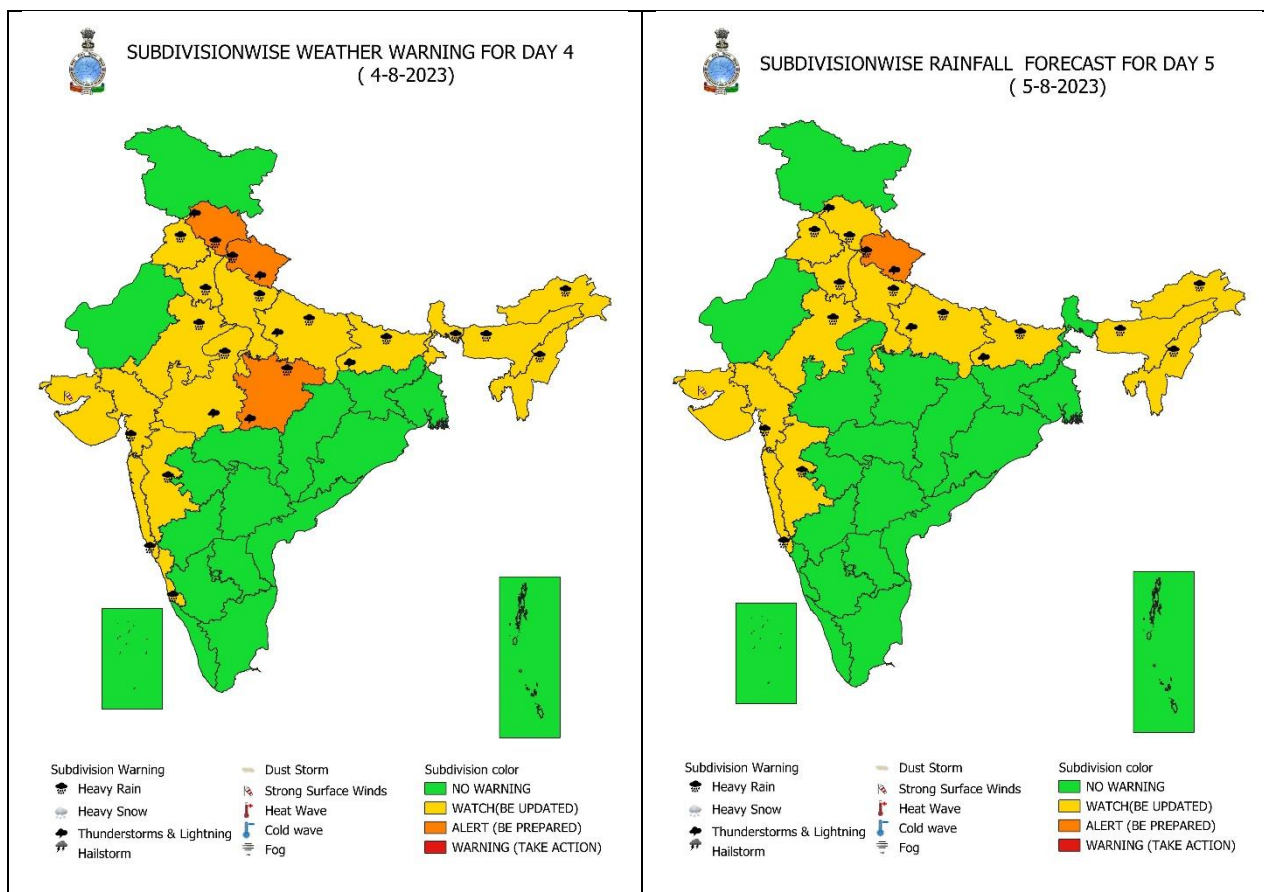
➤ **Extremely heavy rainfall** at isolated places over Odisha; **Heavy to very heavy rainfall** at isolated places over Jharkhand, East Madhya Pradesh, Madhya Maharashtra and heavy rainfall at isolated places over East Rajasthan, Gujarat Region, Uttar Pradesh, Bihar, Punjab, Chhattisgarh, Gangetic West Bengal, Telangana and Konkan & Goa.

➤ **Significant rainfall recorded (in cm):**

- ✓ **Odisha:** Bhubaneswar Aero (dist Khurda) 26, Satyabadi (dist Puri) 11, Kantapada (dist Cuttack) 10, Tihidi (dist Bhadrak) 10, Bhuban (dist Dhenkanal) 10, Bhandaripokhari (dist Bhadrak) 9, Puri (dist Puri) 9, Chandbali (dist Bhadrak) 9, Pipili (dist Puri) 9, Jatni (dist Khurda) 9, Cuttack (dist Cuttack) 8, Rairangpur (dist Mayurbhanj) 8, Rajkanika (dist Kendrapara) 8, Barpalli (dist Bargarh) 7, Lahuni para (dist Sundargarh) 7, Banki (dist Cuttack) 7, Udala (dist Mayurbhanj) 7, Gop (dist Puri) 7, Tigiria (dist Cuttack) 7,
- ✓ **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy (dist Satara) 14,
- ✓ **East Madhya Pradesh:** Devendranagar (dist Panna) 12, Churhat (dist Sidhi) 6,
- ✓ **Bihar:** Wazirganj-11, Aurangabad-6
- ✓ **Konkan & Goa:** Chiplun (dist Ratnagiri) 11, Dapoli\_agri (dist Ratnagiri) 11, Mandangad (dist Ratnagiri) 8, Guhagarh (dist Ratnagiri) 8, Wakwali\_agri (dist Ratnagiri) 8, Lanja (dist Ratnagiri) 7, Khed (dist Ratnagiri) 7, Poladpur (dist Raigad) 7,
- ✓ **Chhattisgarh:** Kunkuri (dist Jashpur) 10, Duldula (dist Jashpur) 7,
- ✓ **Gangetic West Bengal:** Bankura-10, North 24 Parganas-7
- ✓ **Uttar Pradesh:** Banda-10, Hamirpur-7
- ✓ **East Rajasthan:** Jhadol Sr (dist Udaipur) 9,
- ✓ **Punjab:** Bhatinda Iaf (dist Bhatinda) 9,
- ✓ **Jharkhand:** Chandil-13, Simdega-12, Jamshedpur-8, Arki-7
- ✓ **Gujarat Region:** Lunawada (dist Mahisagar) 7,
- ✓ **Telangana:** Naga Reddipet (dist Kamareddy) 7,

❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation





### Impact & Action Suggested due to very heavy rainfall over:

Odisha, Jharkhand, Bihar, Gangetic West Bengal, north Chhattisgarh during 01<sup>st</sup>-02<sup>nd</sup> August  
 East Madhya Pradesh during 01<sup>st</sup>-04<sup>th</sup>; West Madhya Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup> August  
 Uttarakhand during 03<sup>rd</sup>-05<sup>th</sup>, Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup> August.

#### 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 kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides in the hilly areas.
- ❖ 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

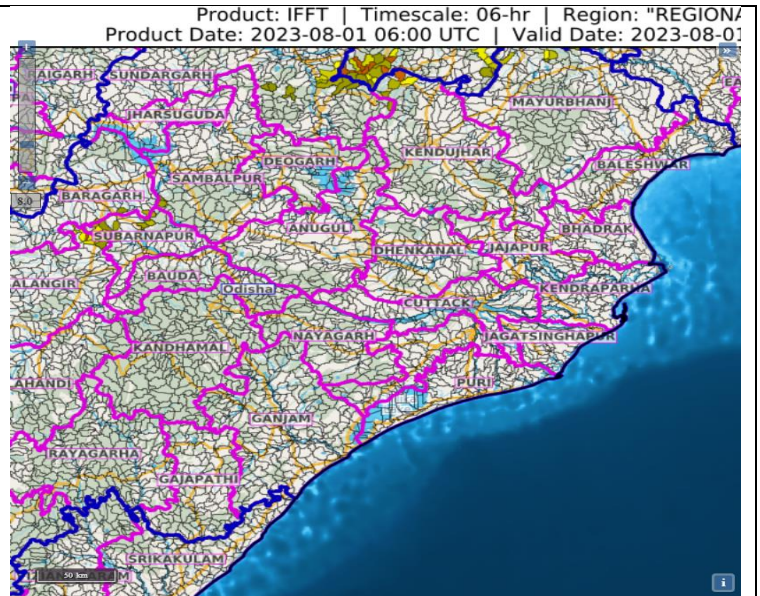
- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.



Observed Flash Flood Threat (IFFT) till 1130 IST of 01-08-2023 :

Low to Moderate flash flood threat observed over few watersheds & neighbourhoods of following Met Sub-divisions during last 6 hours.

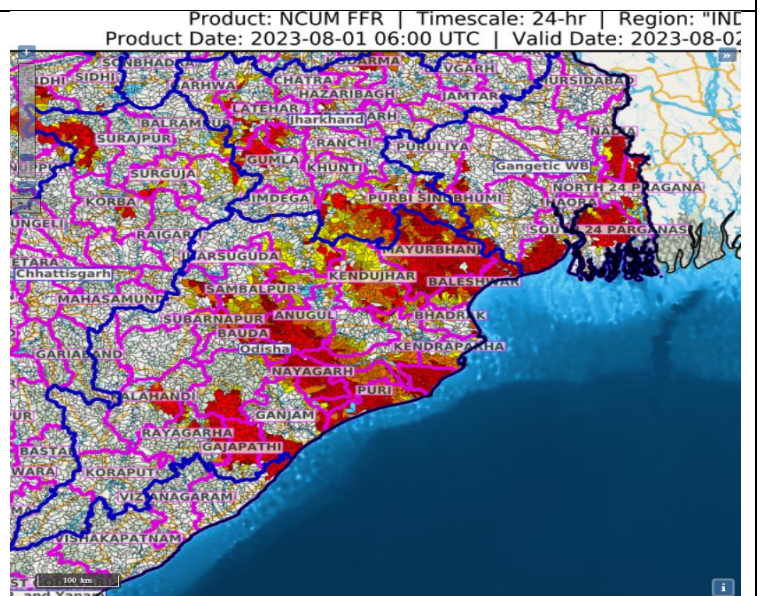
Odisha - Balangir, Baragarh, Subarnapur and Sundargarh districts.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 02-08-2023 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of north Chhattisgarh, Odisha, Gangetic West Bengal and Jharkhand Met Sub-divisions during next 24 hours.














Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



## Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station
- ❖ **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, Tamil Nadu, 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