



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

**Press Release
Date: 25th September, 2023
Time of Issue: 1315 hours IST**

**Subject: 1) Southwest Monsoon has withdrawn from parts of southwest Rajasthan today, the 25th September, 2023.
2) A Low Pressure Area is likely to form over north Andaman Sea & adjoining Eastcentral Bay of Bengal by around 30th September, 2023. Thereafter, it is likely to move west-northwestwards with possibility of gradual intensification.**

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

- ❖ **Withdrawal of Southwest Monsoon: (Annexure II)**
- ✓ **Southwest Monsoon** has withdrawn from parts of southwest Rajasthan today, the 25th September, 2023 against its normal date of withdrawal from southwest Rajasthan of 17th September. The withdrawal of Southwest Monsoon is based on the following meteorological conditions:
 - Anti-cyclonic circulation at 850 hPa level,
 - No rainfall during last 5 days
 - Water vapour imagery indicates dry weather conditions over the region.
- ✓ The line of withdrawal of Southwest Monsoon passes through 28.3°N/72.0°E, Nokhra, Jodhpur, Barmer, 25.7°N/70.3°E.

Significant Weather features:

- ❖ A cyclonic circulation lies over Southeast Uttar Pradesh & neighbourhood and a trough runs from this cyclonic circulation to west Assam in lower tropospheric levels.
- ❖ Another cyclonic circulation lies over south Chhattisgarh and a trough runs from this cyclonic circulation to south Konkan in middle tropospheric levels.
- ❖ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 29th September. Under its influence a **Low Pressure Area** is likely to form over north Andaman Sea & adjoining Eastcentral Bay of Bengal during subsequent 24 hours. Thereafter, it is likely to move west-northwestwards with possibility of gradual intensification.

Weather Forecast and Warnings: (Annexure III)

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Bihar on 25th; Andaman & Nicobar Islands during 25th-29th September.

Isolated very heavy rainfall very likely over Andaman & Nicobar Islands during 27th-29th September.

South India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Coastal Andhra Pradesh, Telangana, Tamil Nadu on 25th, 28th & 29th; Coastal Karnataka and Kerala on 28th & 29th; North Interior Karnataka, Rayalaseema on 25th & 29th and South Interior Karnataka on 28th September.

Isolated very heavy rainfall very likely over Tamil Nadu toady.

West India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan & Goa, Madhya Maharashtra during 25th-29th and Marathwada, Gujarat Region on 25th & 26th and Saurashtra on 25th September.

Northeast India: Light/moderate fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Arunachal Pradesh, Assam & Meghalaya on 25th September.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Vidarbha and Chhattisgarh on 25th September.

No significant weather over rest parts of the country.

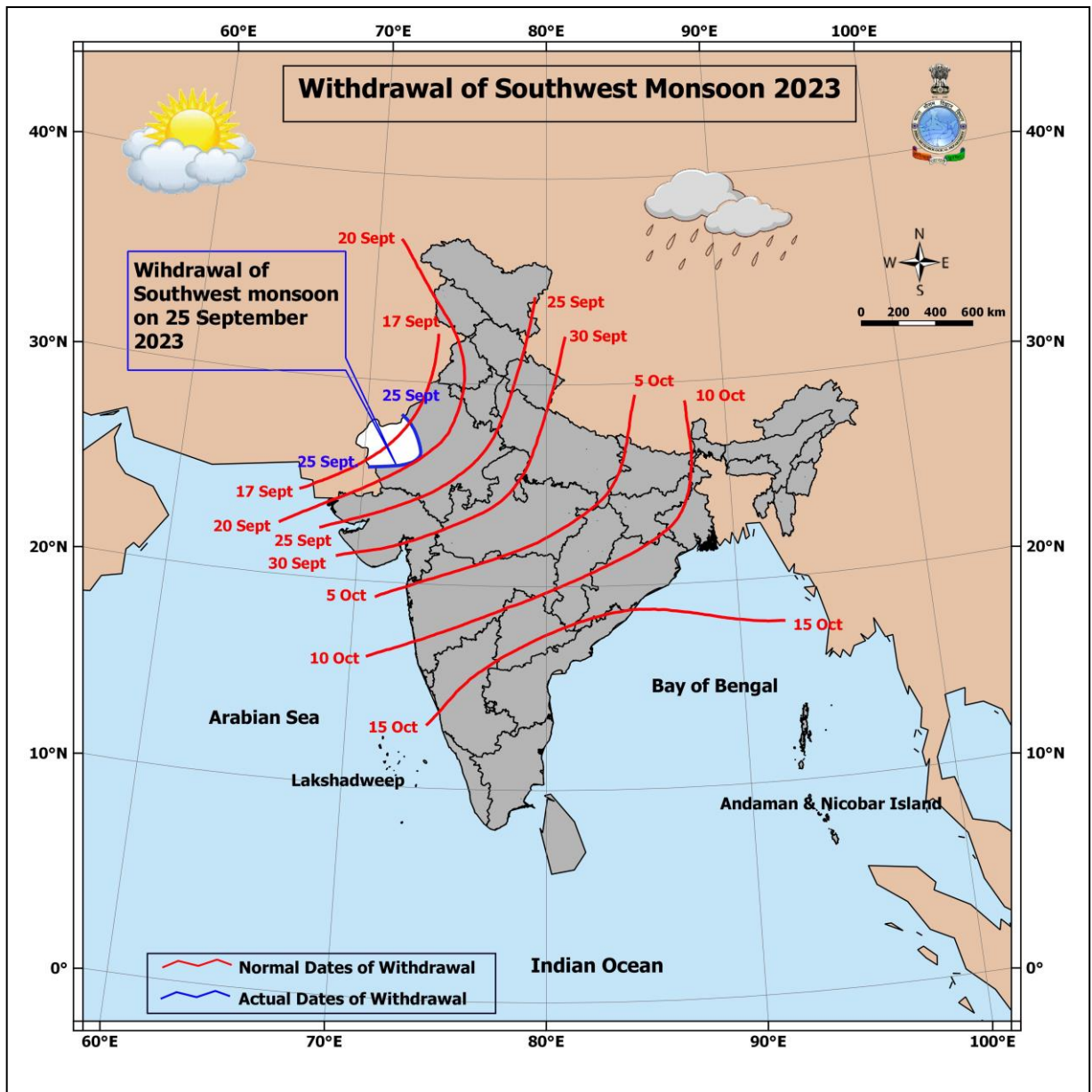
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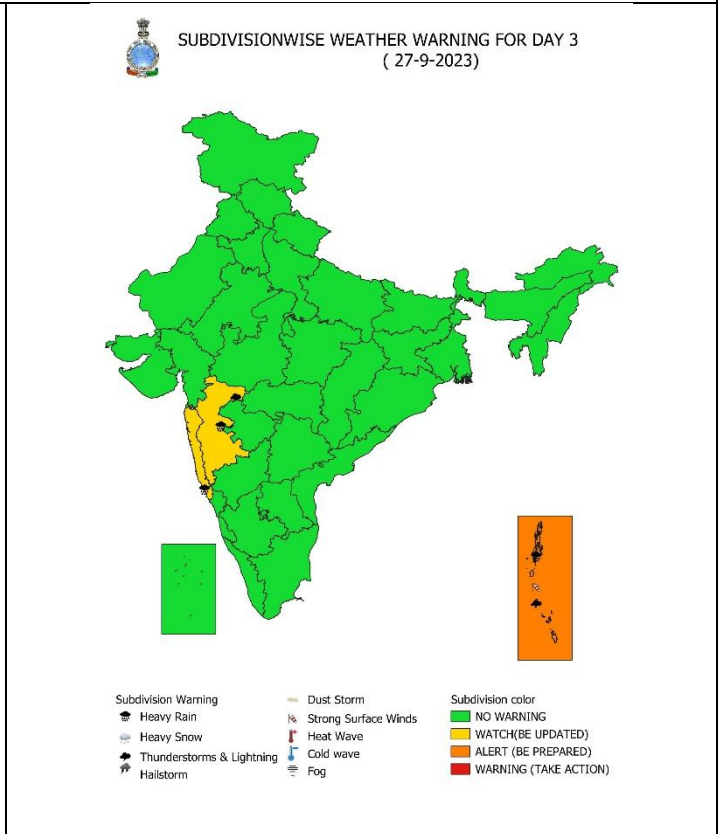
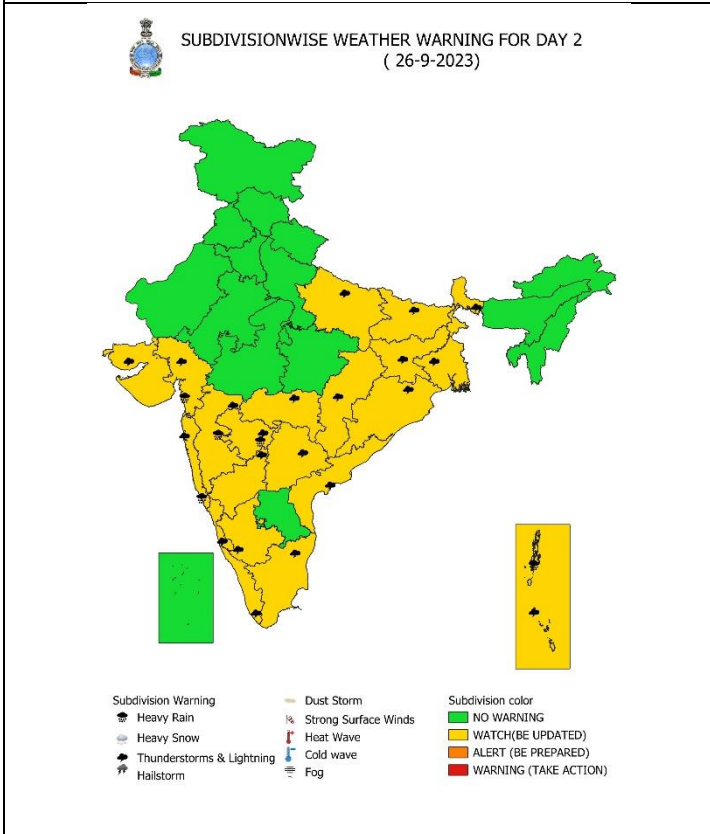
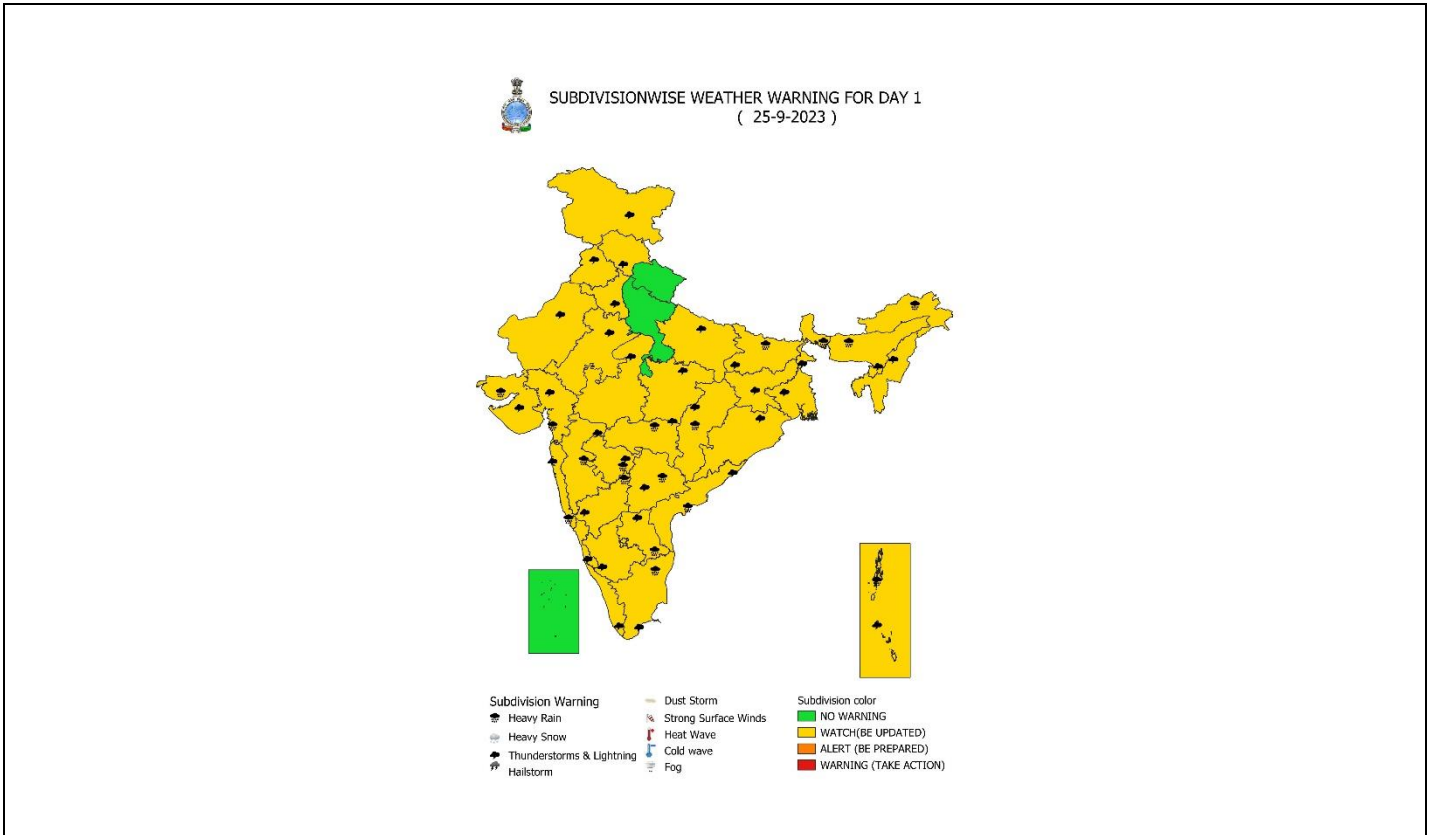
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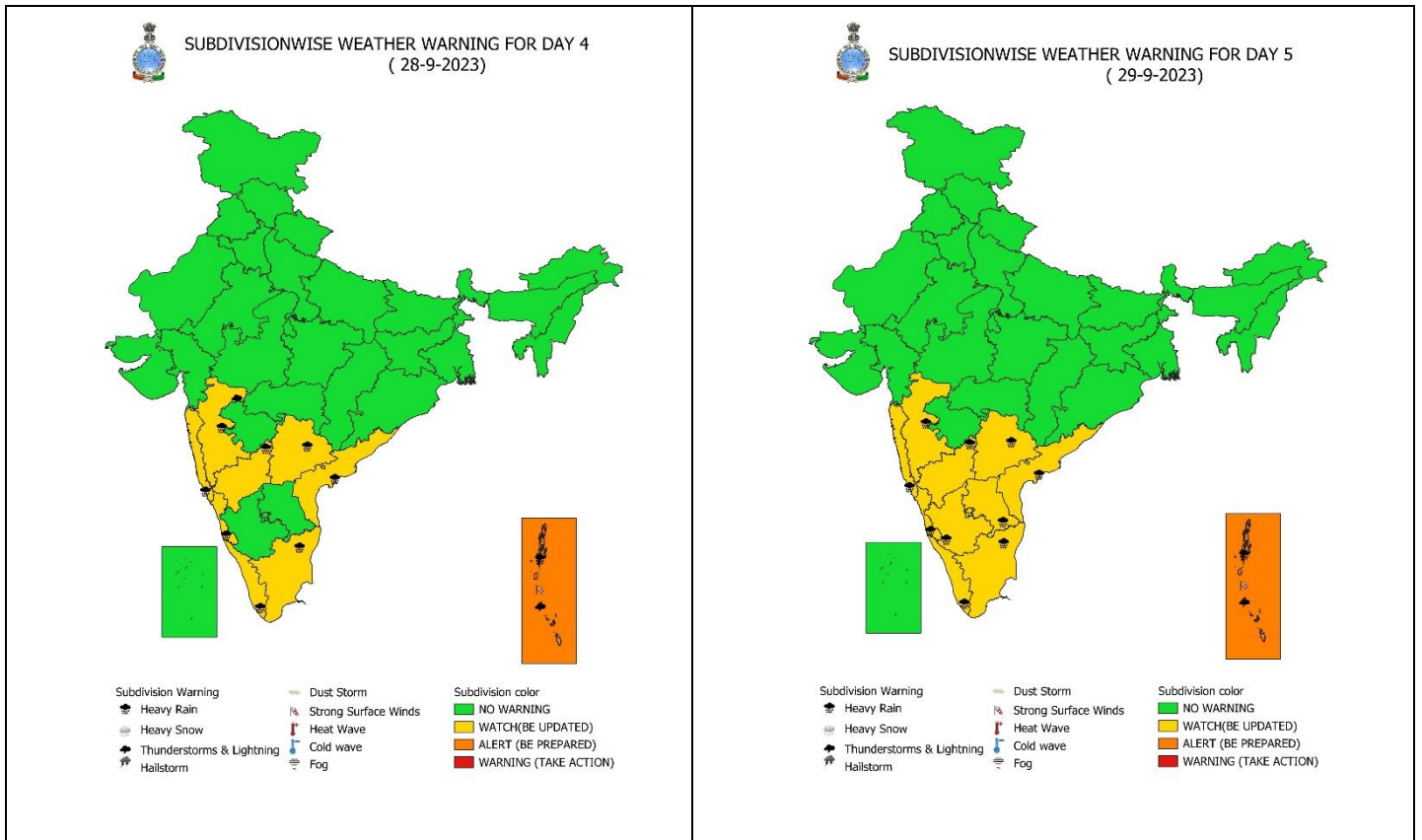
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 25th September, 2023):

- **Heavy to very heavy rainfall** at isolated places over Gujarat Region, West Madhya Pradesh, Sub-Himalaya West Bengal & Sikkim, Tamil Nadu and **heavy rainfall** at isolated places over Rajasthan, Bihar, Saurashtra, Rayalaseema, Telangana, Coastal Andhra Pradesh, Arunachal Pradesh and Assam & Meghalaya.
- **Significant rainfall recorded (in cm):**
- ✓ **Sub-Himalaya West Bengal & Sikkim:** Sonapur:18; Coochbehar:17; Tufanganj:15; Ghugumari, Shaladang:15; AMFU Pundibari:13; Suldaguri:11; Mathabhanga, Gangarampur:9; Alipuruduar:8;
- ✓ **West Madhya Pradesh:** Udainagar (dist Dewas) 15, Bhikangaon (dist Khargone) 7, Khandwa (dist Khandwa) 7, Gogawan (dist Khargone) 7, Hatpiplaya (dist Dewas) 7, KasarwadGogawan (dist Khargone) 7, Hatpiplaya (dist Dewas) 7,
- ✓ **Gujarat Region:** Rajpipala (dist Narmada) 15, Nandod (dist Narmada) 13, Maktampur_aws (dist Bharuch) 7, Tilakwada (dist Narmada) 7,
- ✓ **Tamil Nadu:** Gudiyatham (dist Vellore) 12, Melalathur (dist Vellore), Tiruvannamalai (dist Tiruvannamalai) 10 each, Kalasapakkam (dist Tiruvannamalai), Chetpet (dist Tiruvannamalai), Sriperumbudur (dist Kancheepuram), Thamaraipakkam (dist Tiruvallur), Sholinganallur (dist Chennai) 7 each,
- ✓ **Bihar:** Nirmali (dist Supaul) 9, Thakurganj (dist Kishanganj) 7, Taibpur (dist Kishanganj) 7,
- ✓ **Rayalaseema:** Santhipuram (dist Chittoor) 8, Simhadripuram (dist Ysr District) 7, Vallur (dist Ysr District) 7, Punganur (dist Chittoor) 7,
- ✓ **Telangana:** Addakal (dist Mahabubnagar) 8,
- ✓ **East Rajasthan:** Udaipur/d-aero (dist Udaipur) 7, Bari-sadri (dist Chittorgarh) 6, Behror (dist Alwar) 5,
- ✓ **West Rajasthan:** Fefana (Hanumangarh) 7,
- ✓ **Saurashtra:** Upleta (dist Rajkot) 7, Chuda (dist Surendranagar) 5,
- ✓ **Coastal Andhra Pradesh:** Srungavarapukota (dist Vizianagaram) 7,
- ✓ **Arunachal Pradesh:** NACHO (Distt. Upper Subansiri) 7
- ✓ **Assam & Meghalaya:** AMPATI (Distt. South West Garo Hills) 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 Andaman & Nicobar Islands during 27th–29th September.

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 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

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **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	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

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)