



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

Press Release.

Date: 04th October, 2023

Time of Issue: 1315 hours IST

Subject: 1) Exceptionally heavy rainfall recorded over Gangetic West Bengal : Barisha (West Midnapore)-52 cm
2) A Low Pressure Area lies over western parts of Gangetic West Bengal & adjoining Jharkhand. It is very likely to move slowly northeastwards during next 2 days across West Bengal.
3) Isolated extremely heavy rainfall very likely over West Bengal & Sikkim and Assam & Meghalaya during next 2 days and Exceptionally heavy rainfall over Sub-Himalayan West Bengal & Sikkim on 05th October.
4) Isolated very heavy rainfall to continue over Bihar, Jharkhand, Gangetic West Bengal during next 24 hours and occur over Arunachal Pradesh on 05th October and decrease over the region thereafter.

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

- ❖ Conditions are becoming favourable for further withdrawal of Southwest Monsoon from remaining parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Gujarat state; some parts of East Uttar Pradesh, East Madhya Pradesh, Maharashtra during next 2-3 days.

Significant Weather features:

- ❖ Yesterday's **Low Pressure Area** over southeast Jharkhand & neighbourhood now lies over western parts of Gangetic West Bengal & adjoining Jharkhand. **It is very likely to move slowly northeastwards during next 2 days across West Bengal.**
- ❖ A trough runs from Sikkim to south Chhattisgarh across the Low Pressure area over western parts of Gangetic West Bengal in lower tropospheric levels.

Weather Forecast and Warnings: (Annexure II)

East India: Rainfall warning: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy to very heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim during 04th to 06th; Jharkhand, Bihar, Gangetic West Bengal on 04th & 05th; north Odisha on 04th and over Andaman & Nicobar Islands during 04th to 08th October.

Isolated extremely heavy rainfall very likely over West Bengal & Sikkim on 04th and over Sub-Himalayan West Bengal & Sikkim on 05th October.

Northeast India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy to very heavy rainfall** very likely over Assam & Meghalaya, Arunachal Pradesh during 04th-06th and over Nagaland, Manipur on 04th & 05th October.

Isolated extremely heavy rainfall very likely over west Assam & Meghalaya on 04th & 05th October.

Central India: Light/moderate scattered rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over north Chhattisgarh on 04th October.

South India: Light/moderate scattered rainfall with isolated **heavy rainfall** very likely over south Tamil Nadu today.

Northwest & West India: Mainly dry weather over the region during next 5 days.

For Flash Flood Guidance Map (Annexure IV)

For more details kindly refer:

[https://mausam.imd.gov.in/responsive/all india forecast bulletin.php](https://mausam.imd.gov.in/responsive/all%20india%20forecast%20bulletin.php)

Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 04th October, 2023):

- ❖ **Exceptionally heavy rainfall recorded over Gangetic West Bengal: Barisha (West Midnapore)-52 cm**
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places over Gangetic West Bengal; **Heavy to very heavy rainfall** at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha and **heavy rainfall** at isolated places over Chhattisgarh, Bihar, Jharkhand, Kerala and Tamil Nadu.

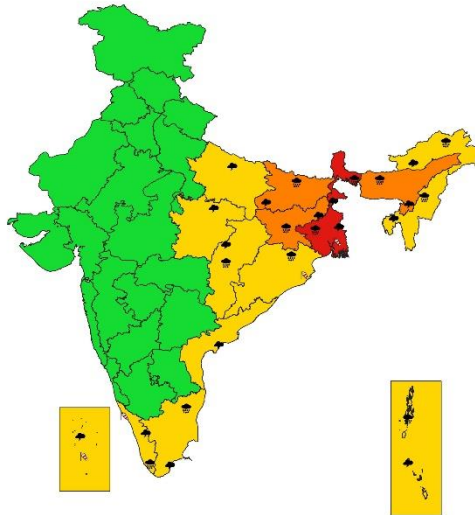
Significant rainfall recorded (in cm):

- ✓ **Gangetic West Bengal:** Barisha : 52, Amgachia, Sabang : 44, Panskura : 24, Haldia, Itamogra : 13, Tamluk : 12, Narajole : 11, Diamond Harbor, Ghatal CWC : 10, Uluberia : 9, Debagram, FMO Asl Obsy, Asansol CWC : 8, Alipore, Tarakeswar, Sundarpur CWC, Haringhata : 7
- ✓ **Sub-Himalaya West Bengal:** Pedong : 19, AMFU Kalimpong, Kalimpong PTO, Darjeeling PTO : 13, Darjeeling : 12, Lava : 11, Jhallong, Buxaduar : 10, Samsing : 8, Rongo, Hasimara, Bijonbari : 7,
- ✓ **Sikkim:** Mazitar : 13, Pakyong : 12, Rongli, Namchi (AWS) : 11, Damthang, Namthang (ARG) : 10
- ✓ **Odisha:** Jaleswar (dist Balasore) 15, Kakatpur (dist Puri) 9, Kendrapara (dist Kendrapara) 8, Batagaon (dist Sambalpur) 8, Udala (dist Mayurbhanj) 8, Deogaon (dist Jharsuguda) 7, Astaranga (dist Puri) 7, Kaptipada (dist Mayurbhanj) 7, Gop (dist Puri) 7, Naraj (dist Cuttack) 7, Kendrapada Pto (dist Kendrapara) 7,
- ✓ **Assam & Meghalaya:** Ranganadi Nt Road Crossing (Dist: Lahimpur) 12, North Lakhimpur (Dist: Lakhimpur) 09, Manas N H Xing (Dist: Barpeta) 09, Tinsukia (Dist: Tinsukia) 09
- ✓ **Tamil Nadu:** Mylaudy (dist Kanyakumari) 11, Kuzhithurai (dist Kanyakumari) 10, Anaikedanku (dist Kanyakumari), Mambzhathuraiyaru (dist Kanyakumari), Kanyakumari (dist Kanyakumari), Kozhiporvilai (dist Kanyakumari) 9 each, Kalial (dist Kanyakumari) 8, Nagercoil (dist Kanyakumari), Perunchani Dam (dist Kanyakumari) 7 each,
- ✓ **Kerala:** Thiruvananthapuram Airport-11,
- ✓ **Bihar:** Dinara (dist Rohtas) 10, Adhwara (dist Bhabua) 8, Jalalgarh (dist Purnea) 8, Dehri (dist Rohtas) 8, Dhenraghat (dist Purnea) 8, Indrapuri (dist Rohtas) 8, Gaunaha (dist West Champaran) 7, Bahargama (dist Araria) 7, Tribeni/balmikinagar (dist West Champaran) 7, Rampur (dist Bhabua) 7, Nabinagar (dist Aurangabad) 7, Barun (dist Aurangabad) 7,
- ✓ **Jharkhand:** Musabani, Chakradharpur-10 each; Latehar-9, Jamtara, Torpa, Dumriya-8 each, Garu, Bargar, Bhurkund, Ketar, Chainpur, Bandgaon, Bishunpur, Dumri, Diyakel Khunti-7 each
- ✓ **Chhattisgarh:** Ramanujganj (dist Balrampur) 8, Bhaiyathan (dist Surajpur) 7, Pratappur (dist Surajpur) 7,

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



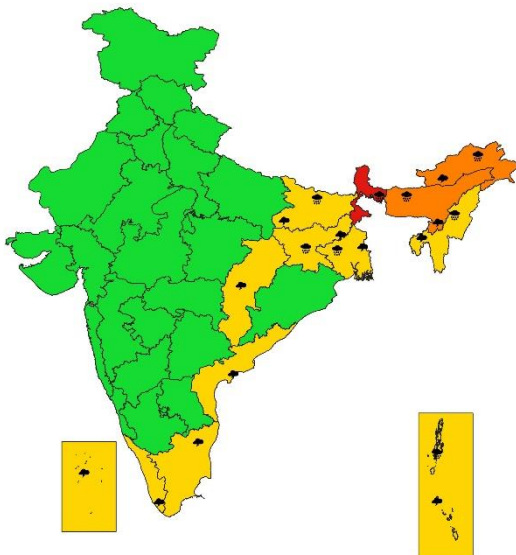
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(4-10-2023)



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



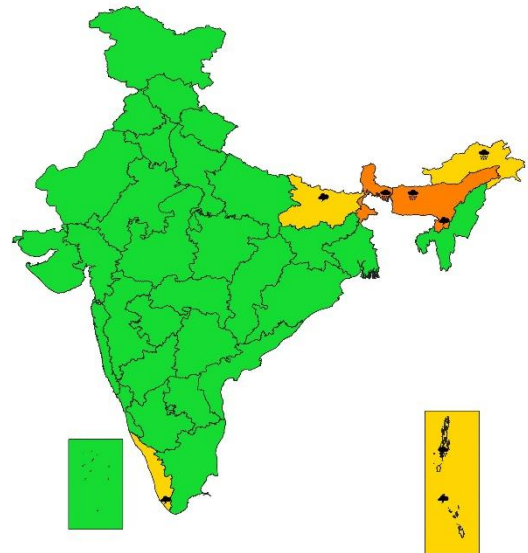
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(5-10-2023)



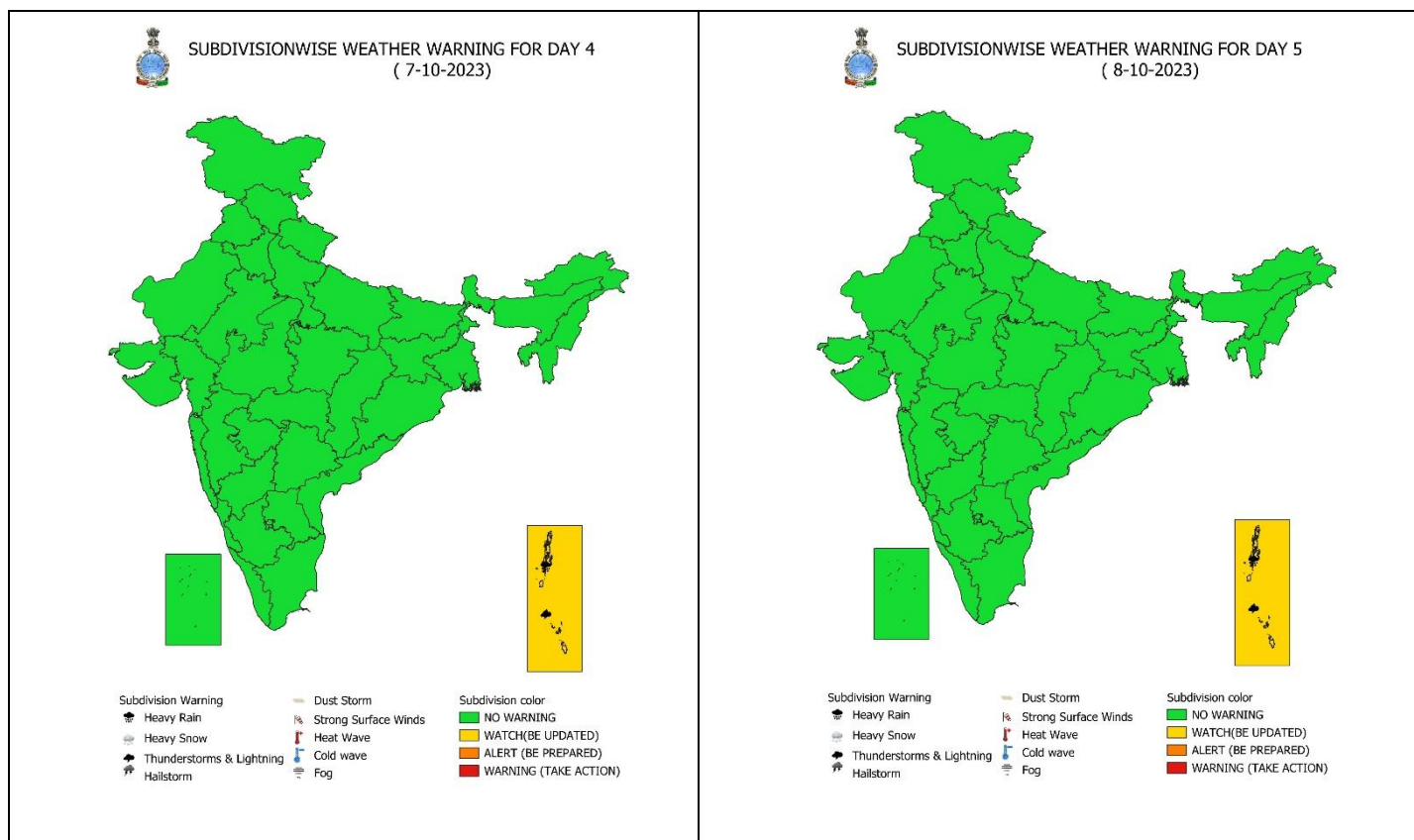
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|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms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



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(6-10-2023)



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



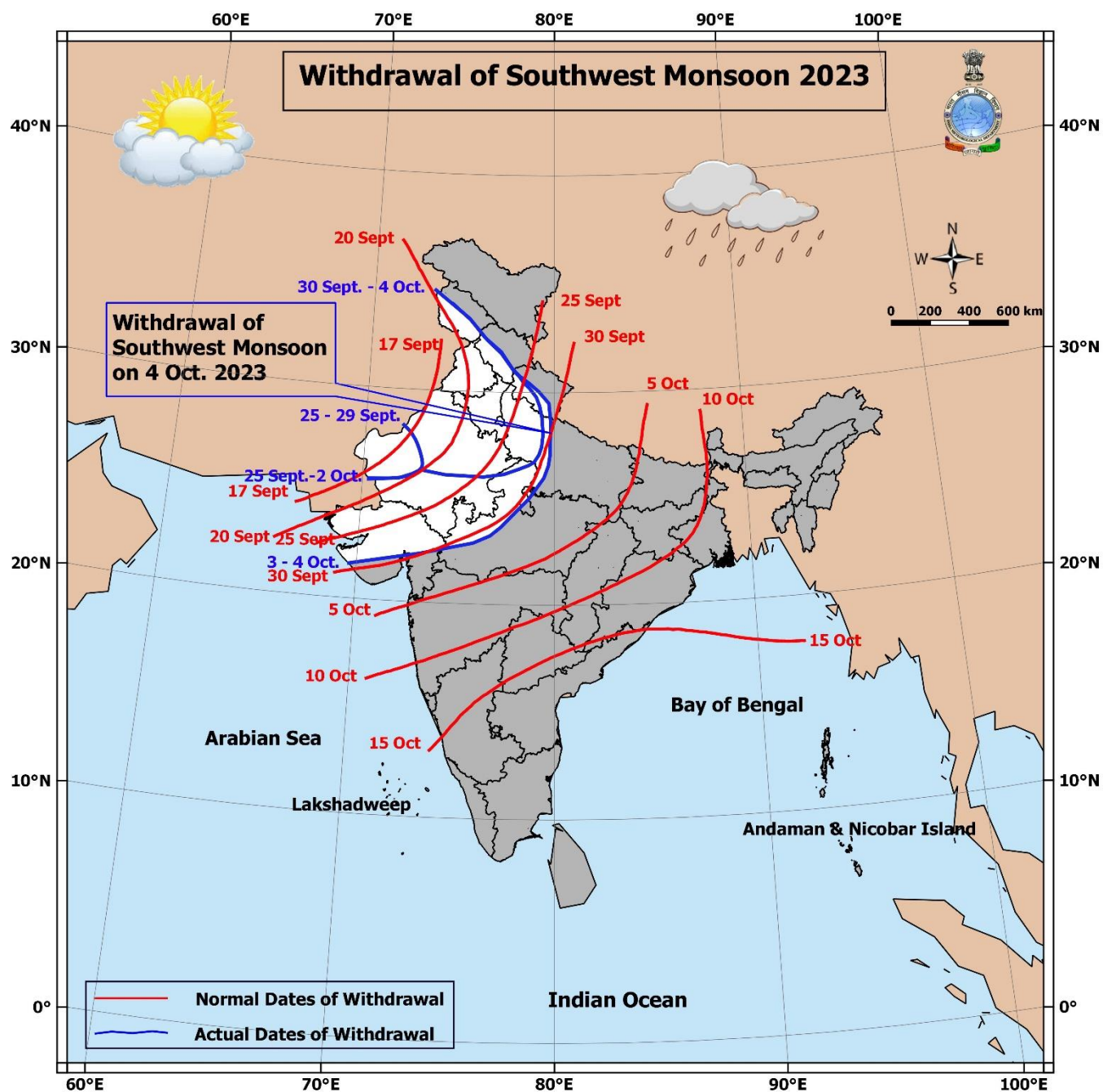
Impact & Action Suggested due to very heavy rainfall/extremely heavy rainfall over Assam & Meghalaya during 04th-06th; West Bengal & Sikkim, Bihar, Jharkhand, north Odisha on 04th and Arunachal Pradesh, Sub-Himalaya West Bengal & Sikkim on 05th October, 2023.

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



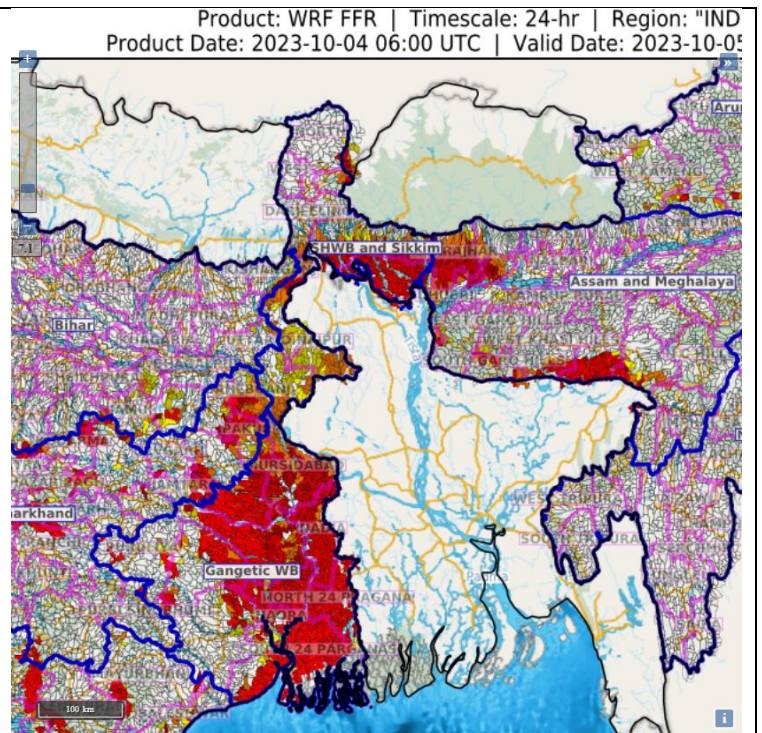
Flash Flood Guidance Map

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 05-10-2023 :

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of Gangetic West Bengal and SHWB & Sikkim adjoining Assam & Meghalaya Met Sub-divisions during next 24 hours.

Low flash flood risk likely over few watersheds and neighbourhoods of 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.
- ❖ **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
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 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)