



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

Press Release.

Date: 05th October, 2023

Time of Issue: 1315 hours IST

Subject: Isolated extremely heavy rainfall very likely over Sub-Himalayan West Bengal and Assam & Meghalaya and Isolated very heavy rainfall over Sikkim during next 24 hours and gradual reduction 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 days.

Significant Weather features:

- ❖ Yesterday's **Low Pressure Area** now lies over western parts of Gangetic West Bengal & neighbourhood. It is very likely to move gradually northeastwards towards Northwest Bangladesh during next 48 hours and become less marked thereafter. Under its influence:
Isolated extremely heavy rainfall very likely over Sub-Himalaya West Bengal and Isolated very heavy rainfall over Sikkim during next 24 hours.
- ❖ A trough runs from the cyclonic circulation associated with the Low Pressure Area over western parts of Gangetic West Bengal & neighbourhood to East Uttar Pradesh in lower tropospheric levels.
- ❖ A fresh Western Disturbance likely to affect Northwest India from the night of 08th October, 2023.

Weather Forecast and Warnings: (Annexure II)

East India: Rainfall warning: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim on 05th & 06th; Jharkhand, Bihar, Gangetic West Bengal on 05th and over Andaman & Nicobar Islands during 05th to 09th October. **Isolated extremely heavy rainfall very likely over Sub-Himalaya West Bengal and Isolated very heavy rainfall over 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 during 05th-07th; Arunachal Pradesh and Nagaland, Manipur on 05th & 06th October.

Isolated extremely heavy rainfall very likely over Meghalaya on 05th October.

Northwest India: Light/moderate scattered rainfall/thunderstorm & lightning very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 09th October.

West & South India: No significant 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

Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 05th October, 2023):

- ❖ **Heavy to very heavy rainfall** at isolated places over West Bengal & Sikkim, Jharkhand, Bihar and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala and Konkan.

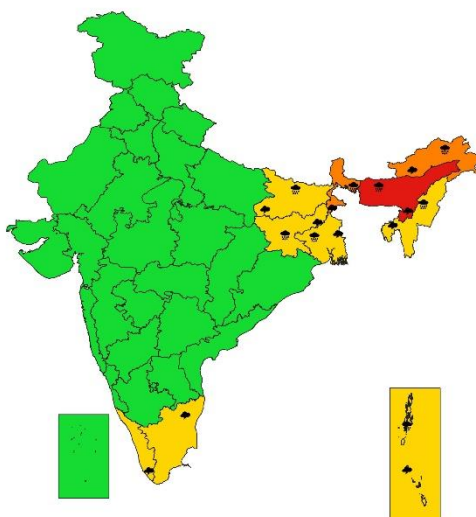
Significant rainfall recorded (in cm):

- ✓ **Bihar:** Sonhaura (dist Bhagalpur) 20, Dhenraghat (dist Purnea) 19, Sabour (dist Bhagalpur) 17, Ghurriya (dist Banka) 15, Bhagalpur (dist Bhagalpur) 12, Sultanganj (dist Bhagalpur) 10, Banka (dist Banka) 9, Amarpur (dist Banka) 9, Taibpur (dist Kishanganj) 9, Barari (dist Katihar) 8, Amdabad (dist Katihar) 8, Shambhuganj (dist Banka) 7, Bihpur (dist Bhagalpur) 7, Colgaon (dist Bhagalpur) 7,
- ✓ **Jharkhand:** Sundarpahari-18; Rajmahal-17; Pathargama-16; Basantra-15; Mahagama, Borio-14 each; Meharna-11; Thakurgangti, Panchet-10 each, Gobindpur-9, Nirsa, Panchet-8 each; Kone, Littipara, Koner-7 each;
- ✓ **Sub-Himalaya West Bengal & Sikkim:** Bagrakote, Malda-12 each
- ✓ **Gangetic West Bengal:** Luchipur- 10, Mamudpur- 10, Sundarpur-9 , Tarakeshwar- 9, Tarakeshwar- 9, Panagarh-8, Chittaranjan-7, Narayanpur- 7, Natungram-7, Berhampore Org- 7, Kandi-7, Durgapur- 7, Bongaon-7, Durgapur- 7, Amtala-7, Damodar Railway Bridge- 7, Durgapur Barrage- 7,
- ✓ **Kerala:** Peerumedu (Idukki district)-10
- ✓ **Konkan:** Sawantwadi (dist Sindhudurg) 8
- ✓ **Arunachal Pradesh:** Pakke Awa (Dist: Pakke Kesang) 8 , Mc Itanagr (Dist Papumpara) 7.
- ✓ **Assam & Meghalaya:** Kokrajhar (Dist: Kokrajhar) 7, Chandarpur (Dist: Kamrup) 7

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



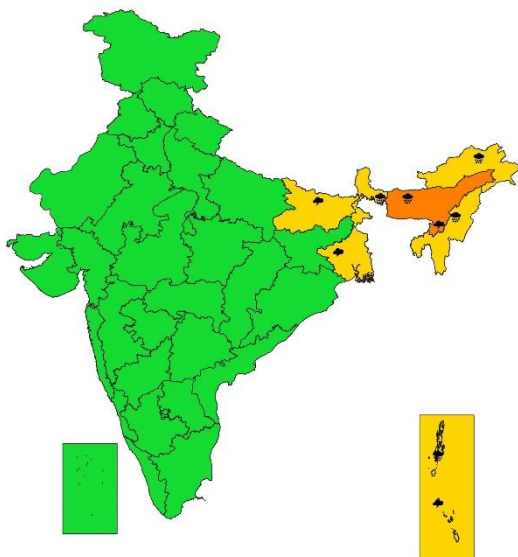
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1 (5-10-2023)



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



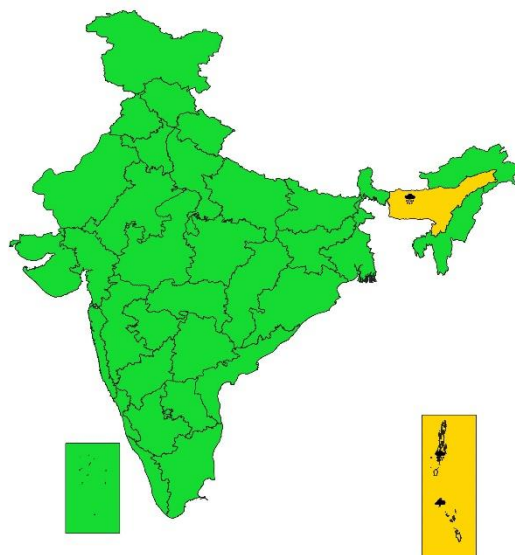
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2 (6-10-2023)



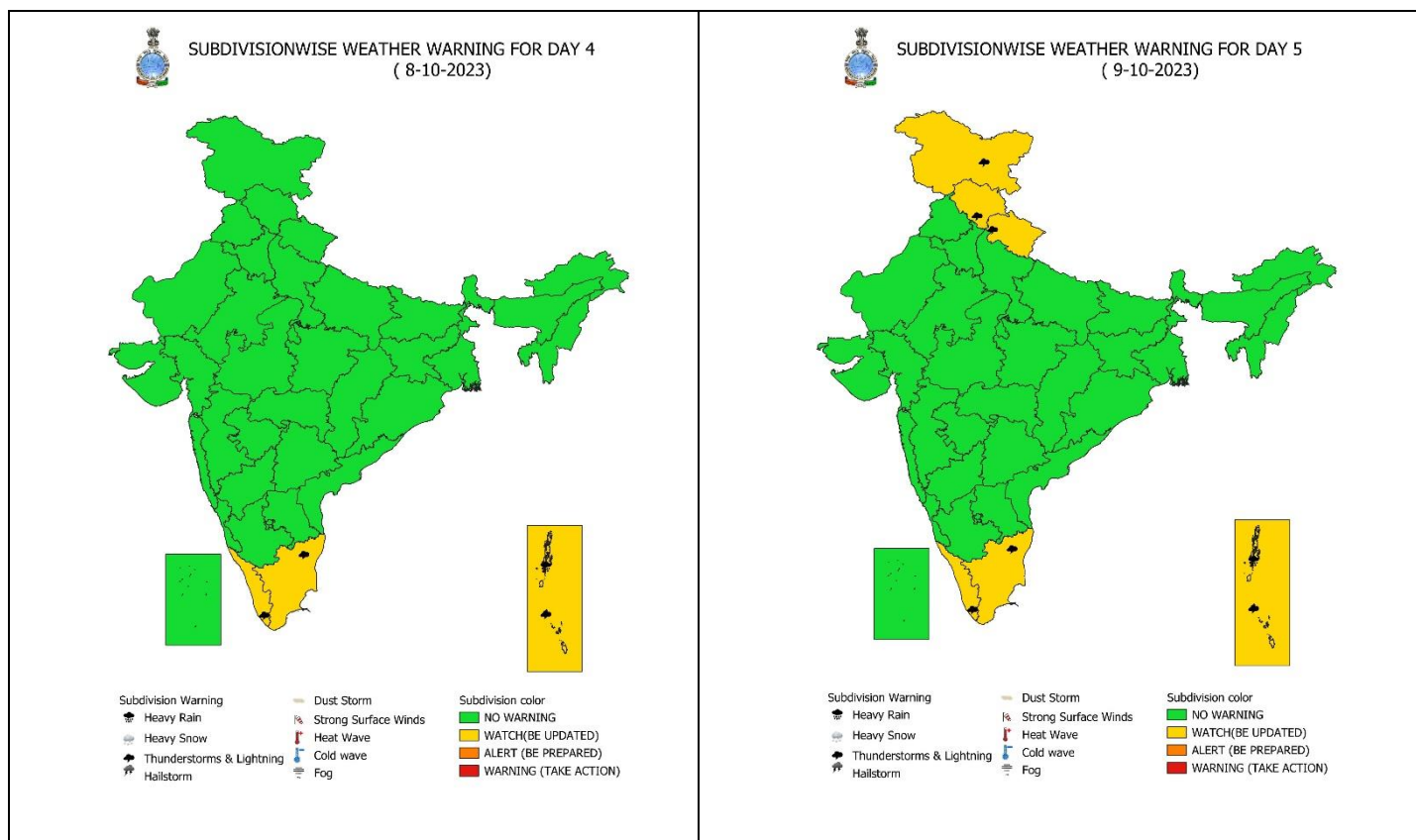
- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED)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



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3 (7-10-2023)



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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) |



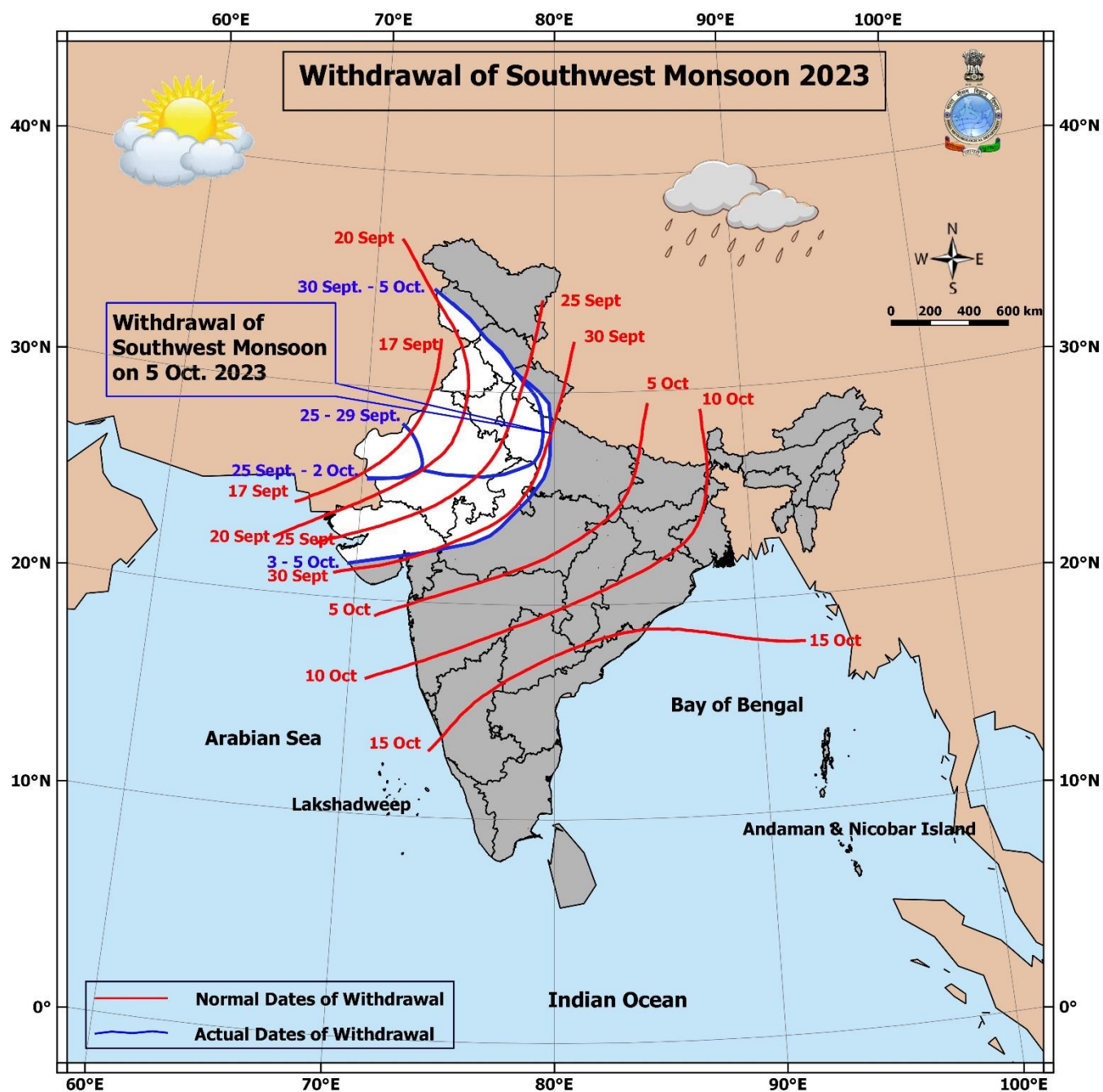
Impact & Action Suggested due to very heavy rainfall/extremely heavy rainfall over Assam & Meghalaya on 05th & 06th; Sub-Himalaya West Bengal & Sikkim and Arunachal Pradesh on 05th October, 2023.

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

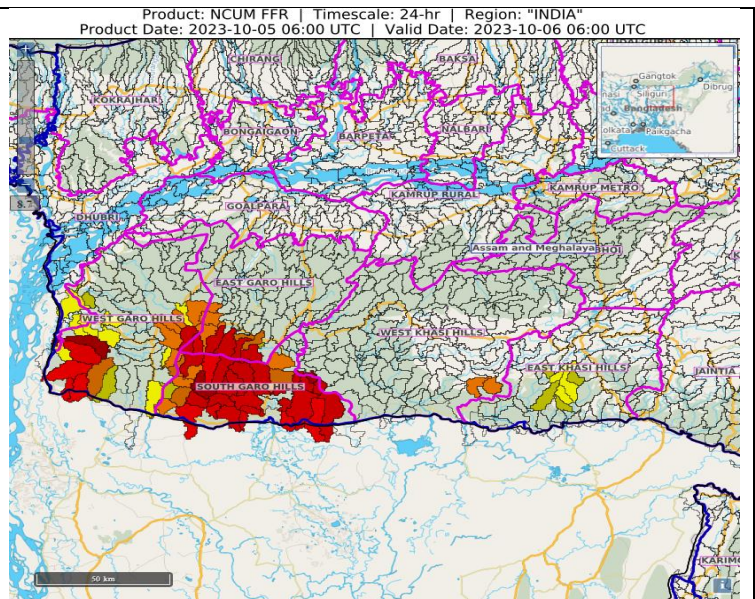


Flash Flood Guidance Map

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 06-10-2023 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of South-Western parts of Assam & Meghalaya 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
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 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
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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)