



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

**Press Release**

**Date: 18<sup>th</sup> October, 2021**

**Time of Issue: 1330 hrs IST**

**Subject: i) Intense spell of rainfall activity over Northwest India & Madhya Pradesh likely to continue till today, the 18<sup>th</sup> October, 2021 and reduction thereafter.**

**ii) Intense spell of rainfall activity very likely over East India till 20<sup>th</sup> and over Northeast India till 21<sup>st</sup> October, 2021.**

**iii) Fresh spell of rainfall activity over south peninsular likely from 20<sup>th</sup> October, 2021.**

**Significant Rainfall amount recorded (from 0830 hours IST of yesterday to 0830 hours IST of today):**

- **West Madhya Pradesh:-** Sheopur-31, Datia-17, Shivpuri-15, Bhind-14; Agar-Malwa, Rajgarh, Sehore-11 Each; Guna, Gwalior-10 Each; Indore, Ujjain, Shajapur-8 Each; Vidisha, Harda-7 Each; Barwani-6;
- **Odisha:-** Balasore-21, Mayurbhanj-13, Cuttack-11, Keonjhar-7;
- **Uttarakhand:-** Champawat-16, Nainital-10, Pithoragarh-9, Udham Singh Nagar-8, Almora-7;
- **East Rajasthan:-** Baran-16, Karauli-13, Bhilwara-7;
- **Kerala & Mahe:-** Thrissur-13, Ernakulam-11, Kozhikode-7;
- **Gangetic West Bengal:-** East Midnapore-12; South 24 Parganas, West Midnapore-11 Each.
- **Tamilnadu:-** Coimbatore-11;
- **East Madhya Pradesh:-** Tikamgarh-10;
- **Haryana:-** Palwal-9; Delhi:- Safdarjung-9, Aya Nagar-7;
- **Telangana:-** B. Kothagudem-7;

**Weather Systems, Forecast and Warnings:**

**i) A Low Pressure Area lies over southwest Madhya Pradesh & neighborhood. A Western Disturbance lies over east Afghanistan & adjoining Pakistan and it is interacting with easterlies at lower levels from Bay of Bengal. It is very likely to continue during next 2 days. Under their influence; fairly wide spread to wide spread light to moderate rainfall with heavy to very heavy falls at isolated places is very likely over Uttarakhand and Uttar Pradesh on 18<sup>th</sup> & and heavy falls on 19<sup>th</sup> October; with isolated heavy to very heavy falls over West Madhya Pradesh and isolated heavy rainfall over Himachal Pradesh, Haryana & Chandigarh, northeast Rajasthan and East Madhya Pradesh on 18<sup>th</sup> October. Isolated extremely heavy falls are also likely over Uttarakhand and West Uttar Pradesh on 18<sup>th</sup> October.**

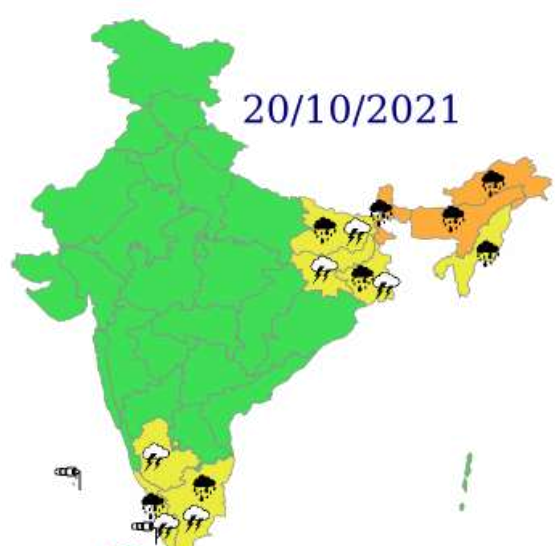
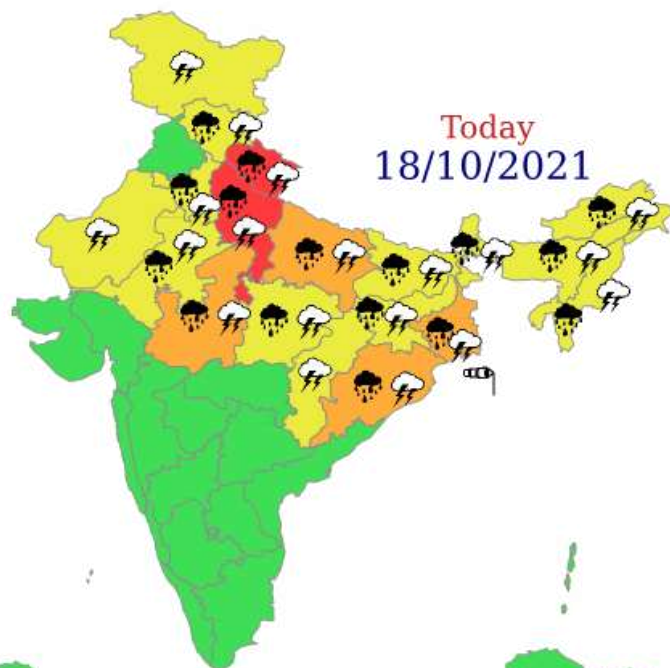
**ii) A Low Pressure Area lies over Gangetic West Bengal & adjoining north Odisha. Also due to strong easterly winds from Bay of Bengal, heavy spell of rainfall activity very likely to continue over east India till 20<sup>th</sup> October with** Fairly wide spread to wide spread light to moderate rainfall with **heavy rainfall with thunderstorms and lightning** at isolated places is very likely over Odisha and Jharkhand on 18<sup>th</sup> & 19<sup>th</sup>; over West Bengal & Sikkim and Bihar during 18<sup>th</sup>-20<sup>th</sup>. Isolated **Very heavy falls** also very likely over Gangetic West Bengal and Odisha on 18<sup>th</sup>; over Bihar on 19<sup>th</sup> and over Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup> October. Isolated **extremely heavy falls** are also likely over Sub-Himalayan West Bengal & Sikkim on 19<sup>th</sup> October.

**iii) Due to strong southerly/southeasterly from Bay of Bengal over northeast India during 19<sup>th</sup> - 21<sup>st</sup> October, 2021** Fairly wide spread to wide spread light to moderate rainfall with **heavy rainfall** very likely over northeast India during 18<sup>th</sup>-21<sup>st</sup>. Isolated **Very heavy falls** also very likely over Arunachal Pradesh and Assam & Meghalaya on 19<sup>th</sup> & 20<sup>th</sup> October.

**iv) A fresh spell of easterly wave is likely to affect south Peninsular India from 20<sup>th</sup> October** and cause fairly widespread to wide spread rainfall with **isolated heavy falls** likely over Kerala & Mahe and Tamilnadu Puducherry & Karaikal during 20<sup>th</sup>-22<sup>nd</sup>, over Rayalaseema, coastal & South Interior Karnataka on 21<sup>st</sup> & 22<sup>nd</sup>. **Isolated very heavy falls** also very likely over Kerala & Mahe and Tamilnadu Puducherry & Karaikal on 21<sup>st</sup> & 22<sup>nd</sup> October.

**For detailed forecast and warning refer following page:**

[https://mausam.imd.gov.in/imd latest/contents/all india forcast bulletin.php](https://mausam.imd.gov.in/imd%20latest/contents/all%20india%20forcast%20bulletin.php)



## **EXPECTED IMPACT & ACTION SUGGESTED due to**

**(i) Extremely heavy falls** over Uttarakhand and West Uttar Pradesh on 18th and over Sub-Himalayan West Bengal on 19<sup>th</sup> October, 2021.

**(ii) Very Heavy Rainfall** over East Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal and Odisha on 18<sup>th</sup>; over Uttarakhand and Bihar on 19<sup>th</sup>; Sub-Himalayan West Bengal on 20<sup>th</sup>, Arunachal Pradesh, Assam & Meghalaya on 19<sup>th</sup> & 20<sup>th</sup> October, 2021.

### **A. Impact Expected**

- Localized Flooding of roads, inundation and 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 Mudslides/Landslides.
- 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.

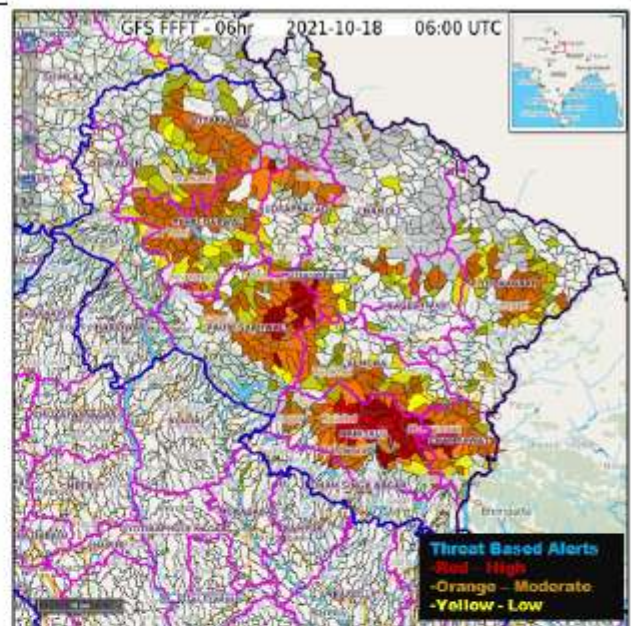


## Flash Flood Guidance

### **Forecasted Flash Flood Threat (PFFT)** **Till 1730 IST of 18.10.2021:**

Moderate to High Threat likely over few watersheds and neighborhoods in the Nainital, Champawat, Almora, Pauri Garwal, Teri Garwal, Rudraprayag, Uttarkashi, Pütoragarh, Chamoli Bageshwar, districts of Uttarakhand in next 6 hours.

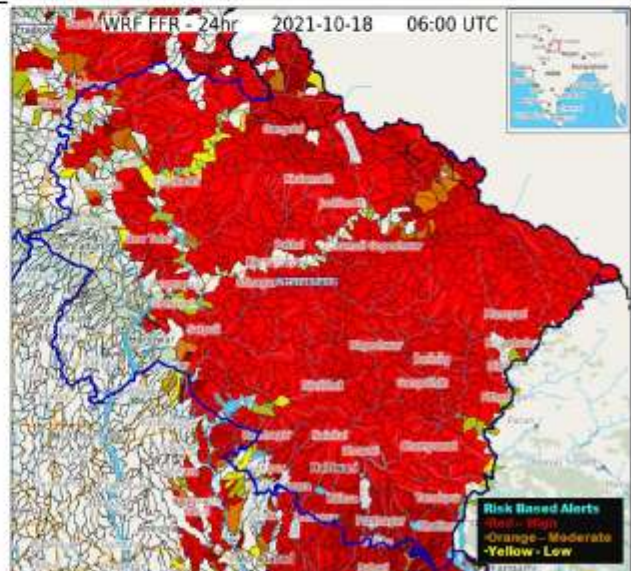
Surface runoff/Inundation may occur at some fully saturated watersheds & low-lying areas due to continuous persistent rainfall for next 6 hours.



### **24 hours Flash Flood Risk Outlook Till** **1130 IST of 19.10.2021:**

High Risk likely over few watersheds and neighborhoods of Uttarakhand met subdivisions in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted 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** > 204.4 mm.

### Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **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)



Heavy Rain



Strong Winds



Thunderstorm with Lightning

### WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

### Probabilistic Forecast

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

Kindly download **MAUSAM** APP for location specific forecast & warning, **MEGHDOOT** APP for Agromet advisory and **DAMINI** APP for Lightning Warning & visit state MC/RMC websites for district wise warning.