



GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
INDIA METEOROLOGICAL DEPARTMENT  
HYDROMET DIVISION  
FLASH FLOOD GUIDANCE CELL



## National Flash Flood Guidance Bulletin

DATED: 01-09-2024

TIME OF ISSUE: 0712 IST

VALID TILL: 1130 IST

From: India Meteorological Department, New Delhi (Email Id: [sasiaffg.imd@gmail.com](mailto:sasiaffg.imd@gmail.com))

To: RMC Guwahati; RMC Chennai; RMC Nagpur; RMC Kolkata; RMC Mumbai; MC Agartala, MC Amaravati, MC Hyderabad, MC Raipur, MC Bhopal, MC Gangtok and all concerned FMO's.

**Area of Concern (AoC):** Few watersheds & neighborhoods of NMMT, Coastal AP & Yanam, Telangana, Chhattisgarh, East Madhya Pradesh, Vidarbha, West Madhya Pradesh, SHWB & Sikkim and Marathwada Met subdivisions.

**Diagnostic Guidance:** Based on Merged Mean Areal Precipitation at 0530 IST, rainfall is up to 109 mm in last 6 hours and up to 167 mm in last 24 hours over few watersheds and neighborhood of AoC. Land Surface Model shows few nearly saturated watersheds up to 90 to 100 % over AoC and up to 50 % soil saturation over remaining parts of the country.

**Prognostic Guidance:** Dynamic Global (GFS) & Mesoscale Model (WRF) forecasts extremely heavy rainfall up to 245 mm in next 24 hours.

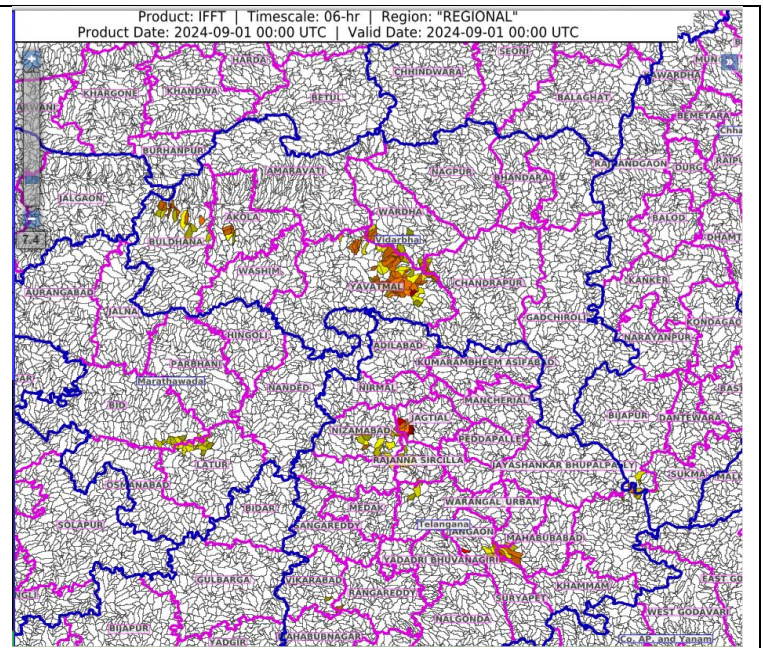
### Observed Flash Flood Threat (IFFT) till 0530 IST of 01-09-2024 :

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

**Telangana** - Jagtial, Jangaon, Mahabubabad, Nizamabad, Rajanna Sircilla and Siddipet districts.

**Vidarbha** - Akola, Buldhana, Wardha and Yavatmal districts.

**Marathwada** - Bid and Jalna districts.



**Disclaimer:** This is only a guidance bulletin and not a warning for flash floods.

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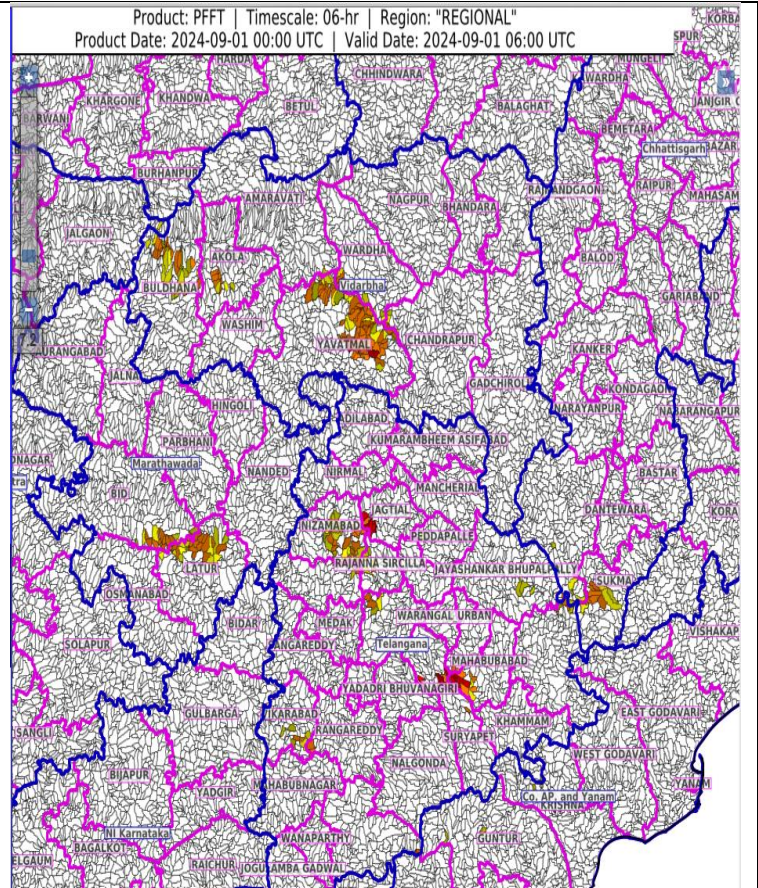


**Persistent Flash Flood Threat (PFFT) till  
1130 IST of 01-09-2024 :**

**Moderate to High flash flood threat** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 6 hours.

- Telangana** - J. Bhupalpally, Jagtial, Jangaon, Mahabubabad, Nizamabad, Rajanna Sircilla, Rangareddy, Siddipet and Vikarabad districts.
- Chhattisgarh** - Bijapur and Sukma districts.
- Vidarbha** - Akola, Buldhana, Wardha and Yavatmal districts.
- Marathawada** - Bid and Latur districts.

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 6 hours.

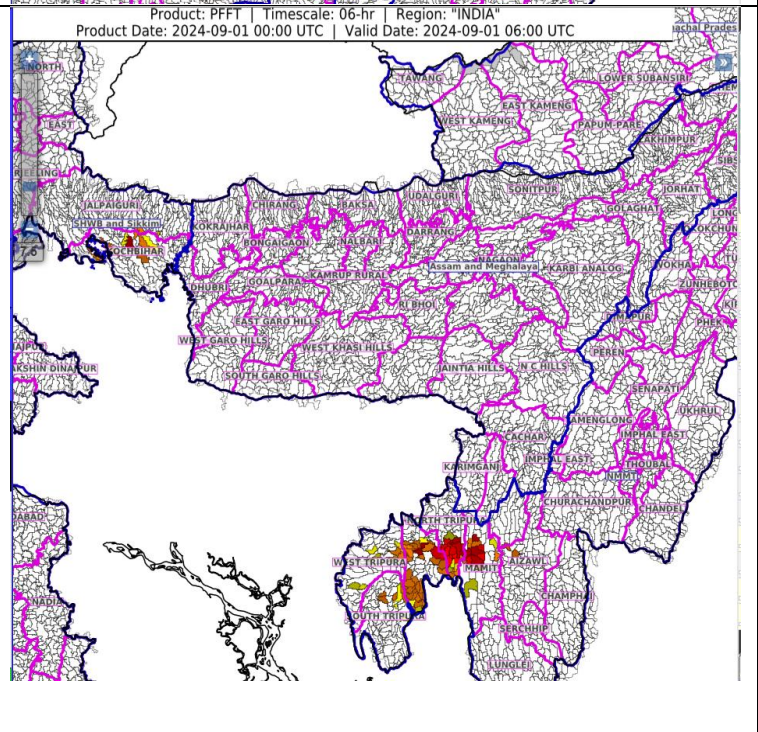


**Persistent Flash Flood Threat (PFFT) till  
1130 IST of 01-09-2024 :**

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

- NMMT** - Aizawl, Mamit, Dhalai, North Tripura, South Tripura and West Tripura districts.
- SHWB & Sikkim** - Jalpaiguri and Kochbihar districts.

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 6 hours.



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**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 02-09-2024 :**

**Moderate to High flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

**Coastal AP & Yanam** - East Godavari, Guntur, Krishna, Prakasam, Vishakhapatnam and West Godavari districts.

**Telangana** - B. Kothagudem, J. Bhupalpally, Jagtial, Jangaon, Kamareddy, Khammam, Mahabubnagar, Medak, Nalgonda, Nirmal, Nizamabad, Peddapalle, Rangareddy, Sangareddy, Siddipet, Suryapet, Vikarabad, Wanaparthy, Warangal\_Rural, Warangal\_Urban and Y. Bhuvanagiri districts.

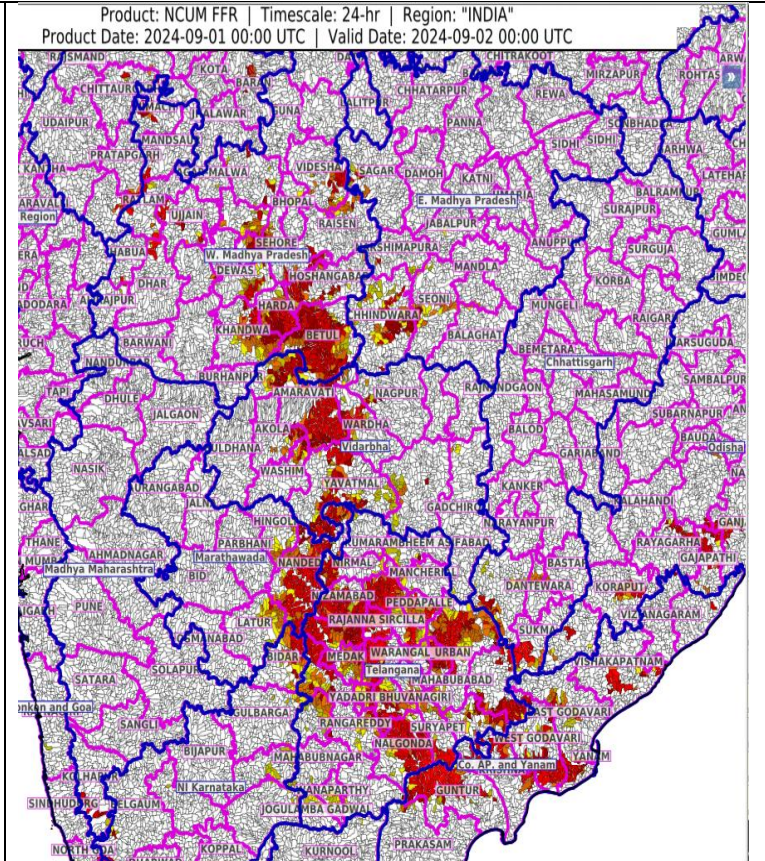
**East Madhya Pradesh** - Chhindwara, Narshimapura and Seoni districts.

**Vidarbha** - Akola, Amaravati, Chandrapur, Wardha and Yavatmal districts.

**West Madhya Pradesh** - Betul, Dewas, Dhar, Harda, Khandwa, Raisen, Sehore, Shajapur, Ujjain, Videsha and Hoshangabad districts.

**Marathawada** - Hingoli, Latur and Nanded districts.

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.



**Note: Next Bulletin will be issued based on 1130 IST of 01-09-2024 .**

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## Terms and Terminologies

### **Merged Mean Areal Precipitation (MAP)**

This product is derived for each basin based on the best available mean areal precipitation estimates from bias-adjusted satellite/radar estimated rainfall and Gauge data.

### **Flash Flood Guidance (FFG)**

The FFG value indicates the total volume of rainfall over the given duration which is just enough to cause bankfull flow at the outlet of the draining stream.

### **Imminent Flash Flood Threat (IFFT)**

The values indicate the difference of the Merged MAP and the corresponding FFG for the given duration. In this case, the IFFT value is considered a current “observation”.

### **Persistent Flash Flood Threat (PFFT)**







The values indicate the difference of recent persisted Merged MAP and the corresponding FFG of the given duration. In this case, the PFFT is considered a “forecast” with persistence of observed rainfall.

### **Forecast Flash Flood Threat (FFFT)**

The values indicate the difference of forecasts of mean areal rainfall by NWP models and the corresponding current FFG of the given duration.

### **Flash Flood Risk (FFR)**

Flash Flood Risk products of 12-hour, 24-hour and 36-hour are relative frequencies of positive flash flood threat for the entire forecast lead time interval. This is a measure of the forecast flash flood occurrence frequency and may be considered as a flash flood outlook.

<b>Flash Flood Threat</b>	<b>Flash Flood Risk</b>
 <b>High Threat (Take Action)</b>	 <b>High Risk (Take Action)</b>
 <b>Moderate threat (Be Prepared)</b>	 <b>Moderate Risk (Be Prepared)</b>
 <b>Low Threat (Be Updated)</b>	 <b>Low Risk (Be Updated)</b>

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