



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



## National Flash Flood Guidance Bulletin

**DATED: 04-12-2024**

**TIME OF ISSUE: 0630 IST**

**VALID TILL: 1130 IST**

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

**To: All RMC's, MC's and concerned FMO's.**

**Area of Concern (AoC): NIL**

**Diagnostic Guidance:** Based on Merged Mean Areal Precipitation at 0530 IST, rainfall is up to 20 mm in last 6 hours and up to 50 mm in last 24 hours over few watersheds and neighborhood of Kerala & Mahe and Coastal Karnataka Met Sub-divisions. Land Surface Model shows few nearly saturated watersheds up to 70 to 80 % over Tamil Nadu, Puducherry & Karaikal Met Sub-division and up to 50 % soil saturation over remaining parts of the country.

**Prognostic Guidance:** Dynamic Global (GFS) & Mesoscale Model (WRF & NCUM) forecasts rainfall up to 50 mm in next 24 hours.

**Observed Flash Flood Threat (IFFT) till 0530 IST of 04-12-2024 :**

No Flash flood threat observed during last 06 hours.



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

Contact: WMO Regional Centre (SASIAFFGS),  
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**Persistent Flash Flood Threat (PFFT) till  
1130 IST of 04-12-2024 :**

No Flash flood threat likely during next 06 hours.



**24 hours Outlook for the Flash Flood Risk  
(FFR) till 0530 IST of 05-12-2024 :**

No Flash flood risk likely in next 24 hours.



**Note: Next Bulletin will be issued based on 1130 IST of 04-12-2024 .**

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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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