



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



South Asia Flash Flood Guidance Bulletin

DATED: 03.12.2024 TIME OF ISSUE: 0700 UTC VALID TILL 1200 UTC

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

To: All National Meteorological and Hydrological Services (NMHS) – Nepal, Bhutan, Bangladesh and Sri Lanka.

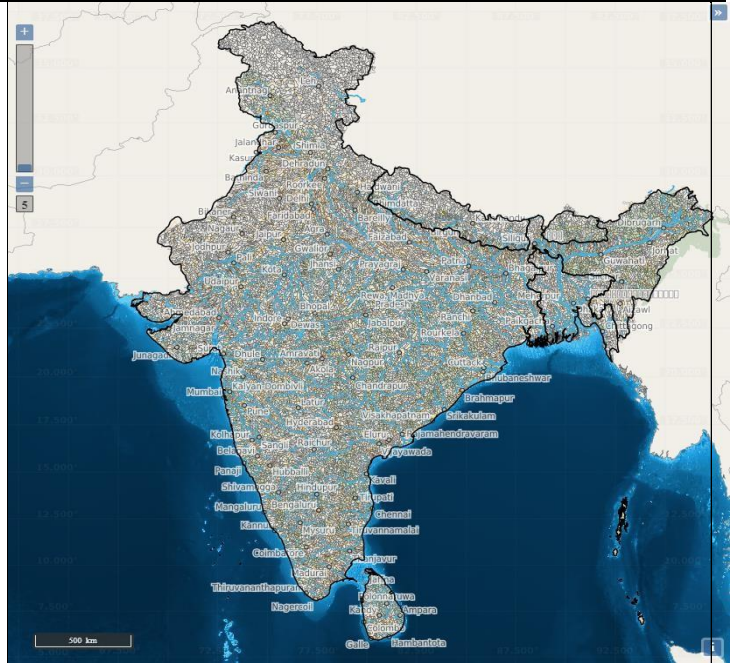
Area of Concern (AoC): Nil

Diagnostic Guidance: Based on Merged Mean Areal Precipitation at 0600 UTC, rainfall is up to 1 mm in last 6 hours and up to 6 mm in last 24 hours over Sri Lanka and Bhutan. Land Surface Model shows few nearly saturated watersheds up to 40 to 50% over Sri Lanka and up to 30% saturated over rest of the region.

Prognostic Guidance: Dynamic Global (GFS) & Mesoscale Model (WRF & NCUM) forecast rainfall up to 20 mm in next 24 hours over the region.

Observed Flash Flood Threat (IFFT)
Till 0600 UTC of 03.12.2024:

No flash flood threat observed in last 6 hours.



Regional Guidance Bulletin should be modified by the respective NMHS as per latest meteorological and hydrological conditions.

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

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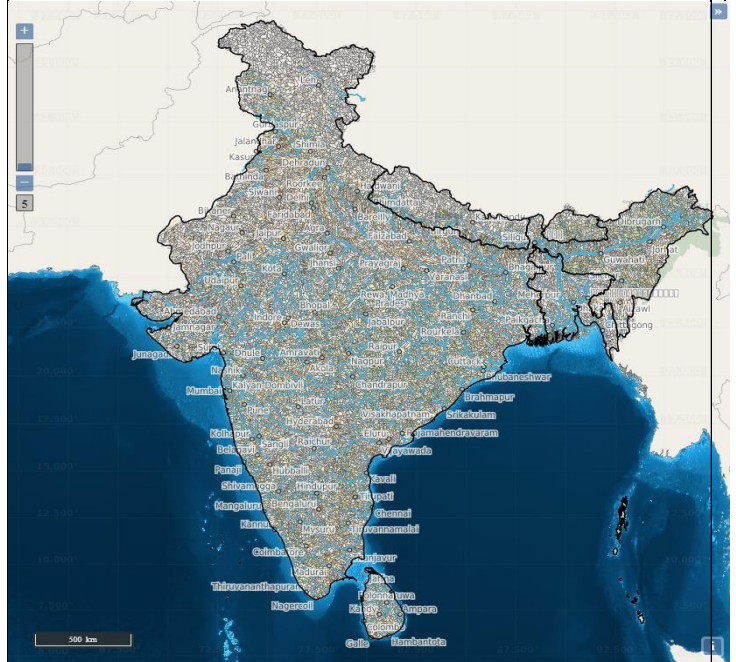


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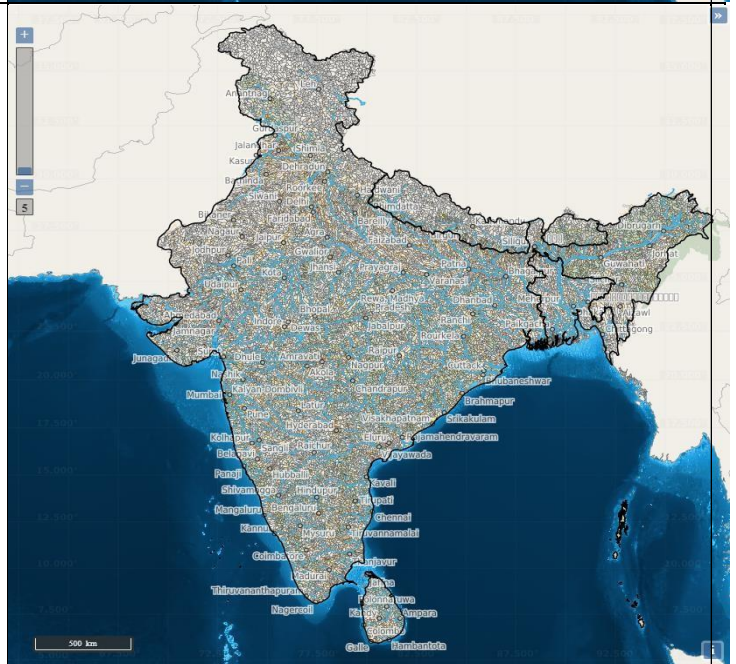
**Persistent Flash Flood Threat (PFFT)
Till 1200 UTC of 03.12.2024:**

No flash flood threat likely in next 6 hours.



**24 hours Flash Flood Risk Outlook till
0600 UTC of 04.12.2024:**

No flash flood risk likely in next 24 hours.



Note: Next Bulletin will be issued based on 0600 UTC 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 bank full 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.

Flash Flood Threat	Flash Flood Risk
 High Threat (Take Action)	 High Risk (Take Action)
 Moderate threat (Be Prepared)	 Moderate Risk (Be Prepared)
 Low Threat (Be Updated)	 Low Risk (Be Updated)

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