



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



SOUTH ASIA FLASH FLOOD GUIDANCE BULLETIN

DATED: 17.10.2021 TIME OF ISSUE: 0700 UTC VALIDTILL 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.

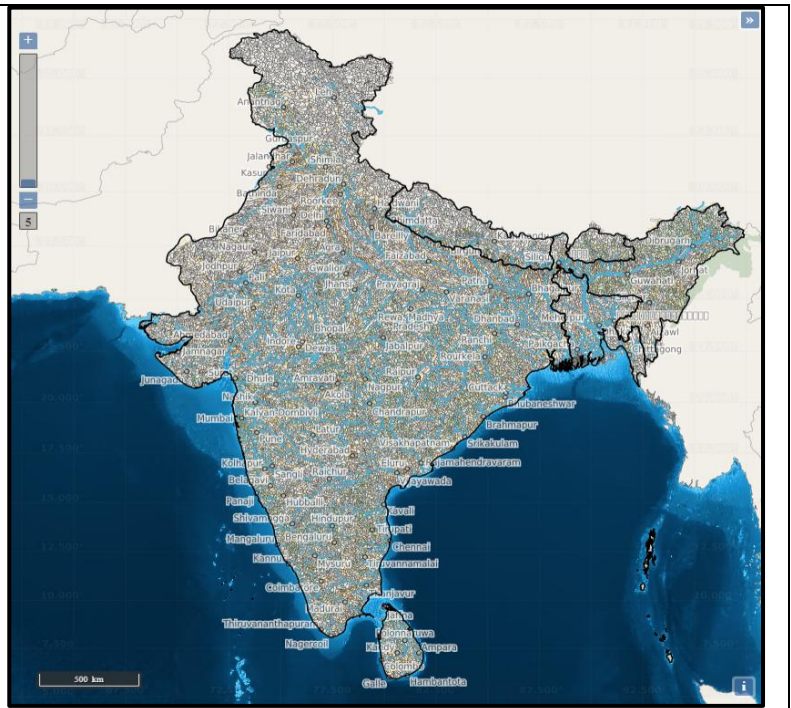
Area of Concern (AoC): NIL.

Diagnostic Guidance: Based on Merged Mean Areal Precipitation (Gauge and Satellite) at 0600 UTC, recorded rainfall is **4 mm** in last 6 hours & up to **23 mm** in last 24 hours over Bangladesh, Nepal. Land Surface Model shows dry watersheds up to 55% saturated over entire region.

Prognostic Guidance: Dynamic Global (GFS) & Mesoscale Model (WRF & NCUM) forecasts **low rainfall** up to **40 mm** in next 24 hours.

Imminent Flash Flood Threat (IFFT)
Till 0600 UTC of 17.10.2021:

No Flash Flood Threat indicated based on last 6 hours observed conditions.



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.

Contact: WMORegionalCentre (SASIAFFGS),
Hydromet Division, Flash Flood Guidance Cell

Phone: 011-43824359/011-43824410

Email: sasiaffg.imd@gmail.com

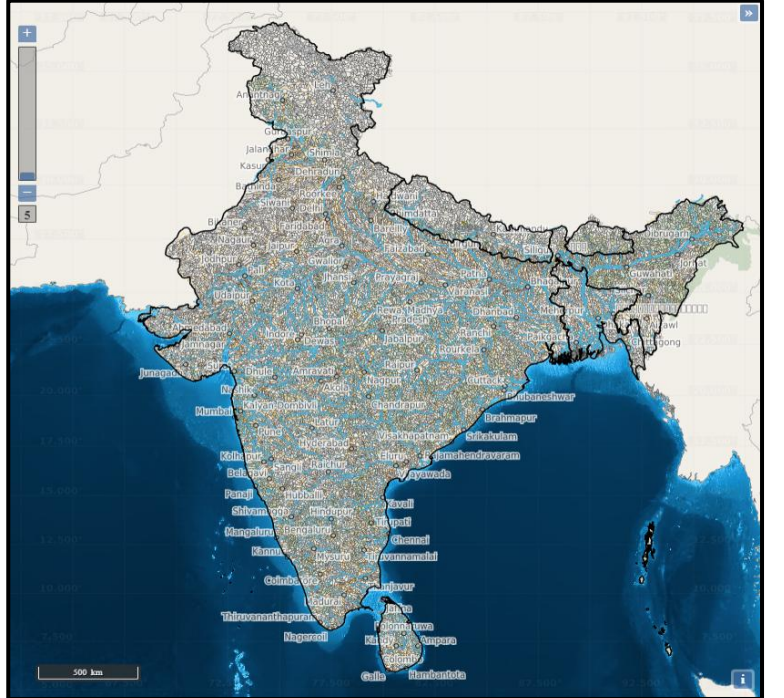


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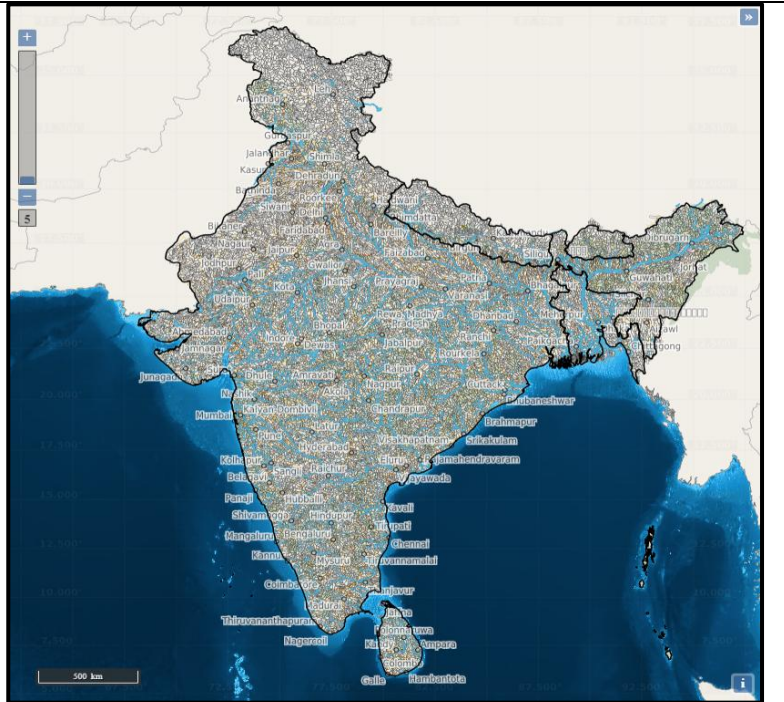
Forecasted Flash Flood Threat (FFFT)
Till 1200 UTC of 17.10.2021:

No Flash Flood Threat for next 6 hours.



24 hours Flash Flood Risk (FFR)
Outlook till 0600 UTC of 18.10.2021:

No Flash Flood Risk for next 24 hours.



Note: Next Bulletin will be issued based on 0600 UTC of 18.10.2021.

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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.