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

National Flash Flood Guidance Bulletin

DATED: 04-07-2026 **TIME OF ISSUE: 0700 IST** **VALID TILL: 1130 IST**

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

To: RMC Mumbai; MC Ahmedabad, MC Goa and all concerned FMO's.

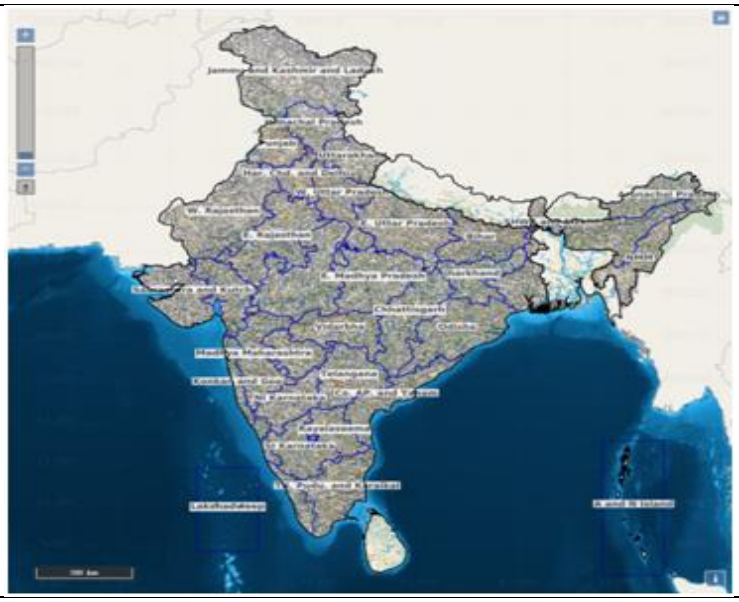
Area of Concern (AoC): Few watersheds & neighborhoods of Uttrakhand, Gujarat Region, Konkan & Goa Met subdivisions.

Diagnostic Guidance: Based on Merged Mean Areal Precipitation at 0530 IST, rainfall is up to 45 mm in last 6 hours and up to 105 mm in last 24 hours over few watersheds and neighborhood of Area of Concern (AoC) Met subdivisions. Land Surface Model shows few nearly saturated watersheds up to 80 to 90 % over Area of Concern (AoC) Met subdivisions and up to 45 % soil saturation over remaining parts of the country.

Prognostic Guidance: Dynamic Global (GFS) & Mesoscale Model (WRF & NCUM) forecasts extremely heavy rainfall up to 200 mm in next 24 hours.

Observed Flash Flood Threat (IFFT) till 0530 IST of 04-07-2026 :

No Flash flood threat observed in last 06 hours.



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

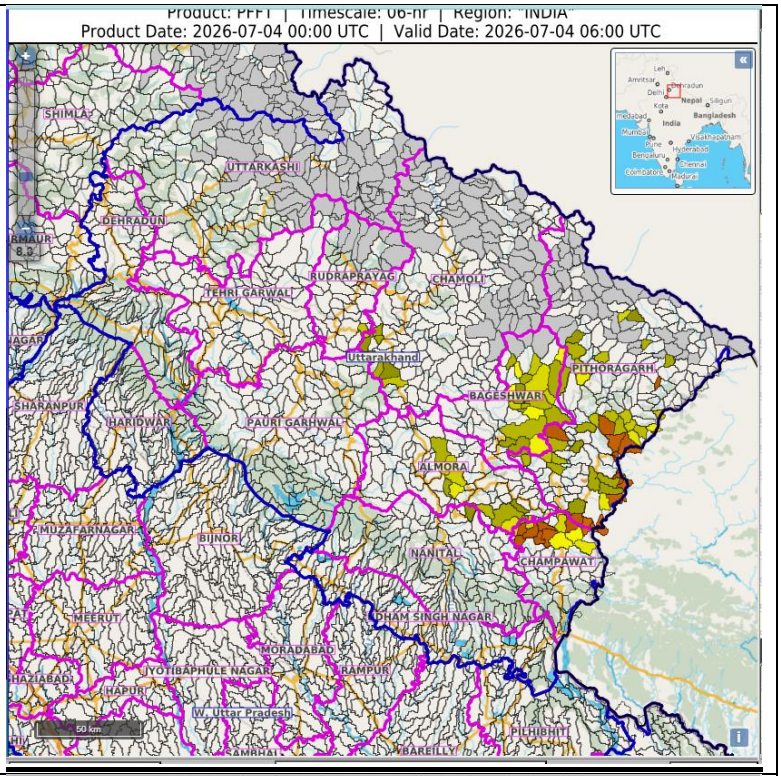
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Persistent Flash Flood Threat (PFFT) till 1130 IST of 04-07-2026 :

Low to Moderate flash flood threat likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 06 hours.
Uttarakhand – Pithoragarh, Champawat, Almora, Chamoli and Bageshwar districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 06 hours.

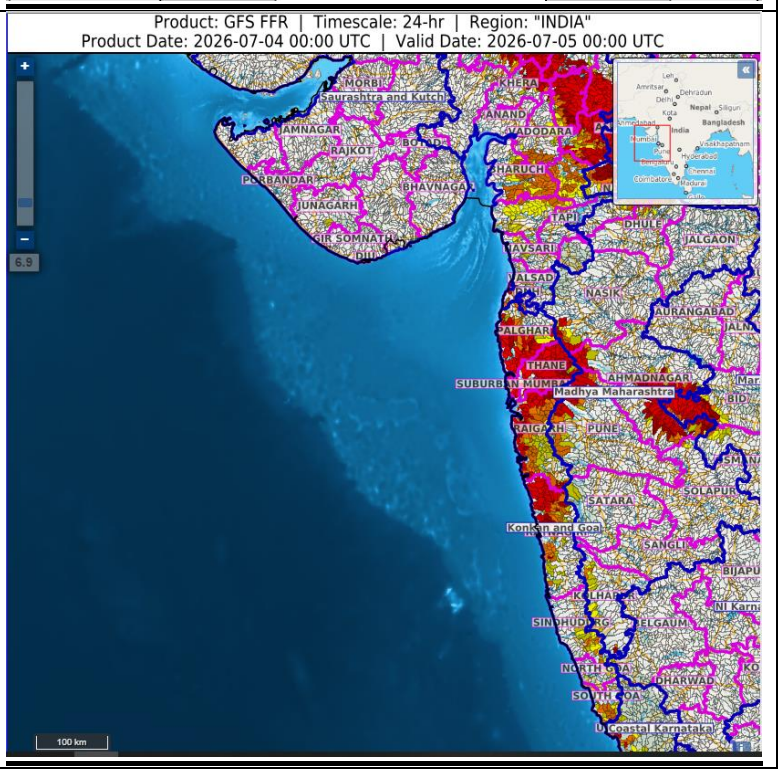


24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 05-07-2026 :

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

Konkan & Goa - North Goa, South Goa, Mumbai City, Palghar, Raigarh, Ratnagiri, Sindhudurg, Suburban Mumbai and Thane districts.
Gujarat Region - Dadar & Nagar Haveli, Daman, Aravalli, Bharuch, Chhota Udepur, Dahod, Mahisagar, Khera, Navsari, Panchmahal, Surat, Vadodara and districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (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 04-07-2026 .

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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.

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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