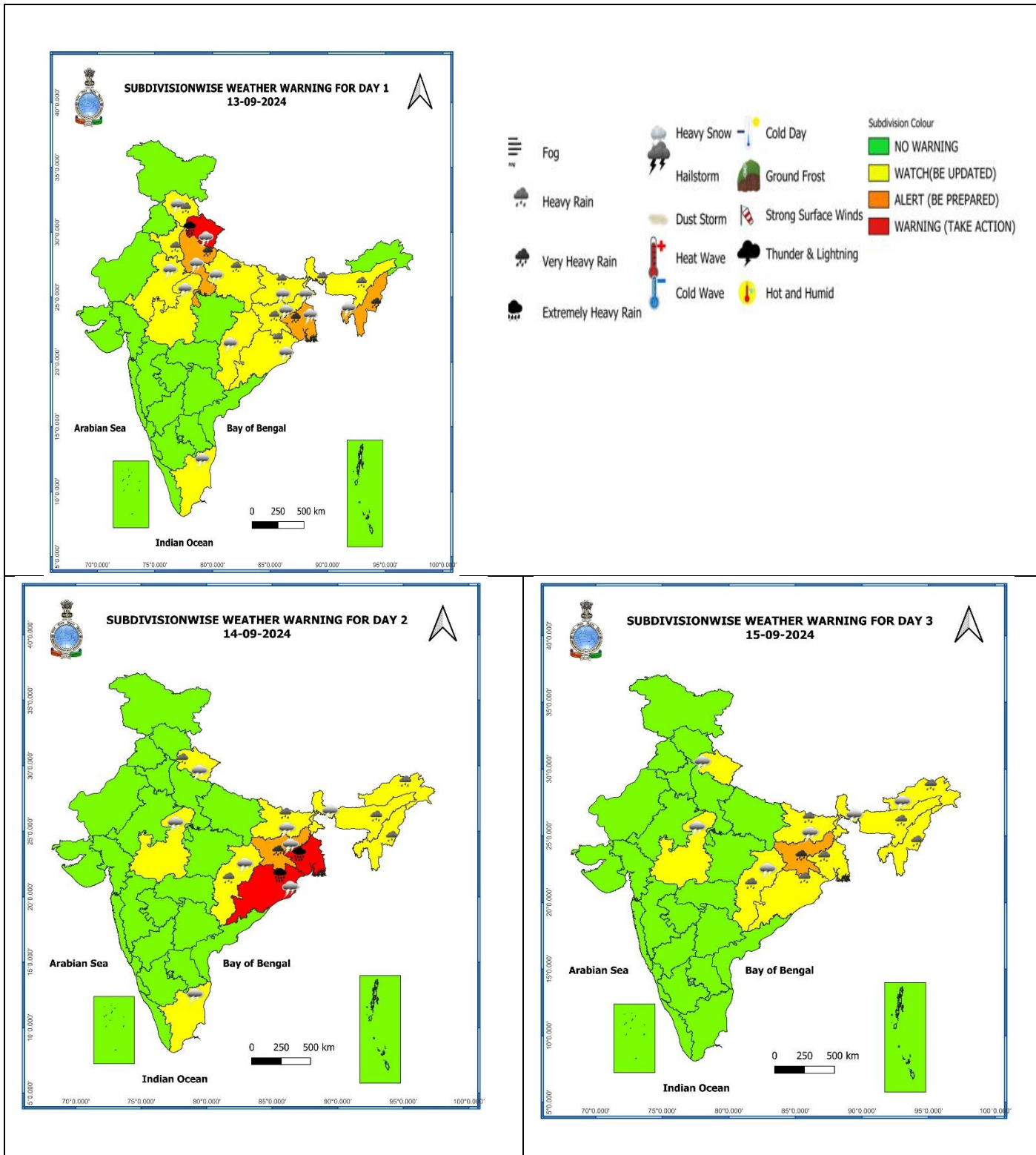


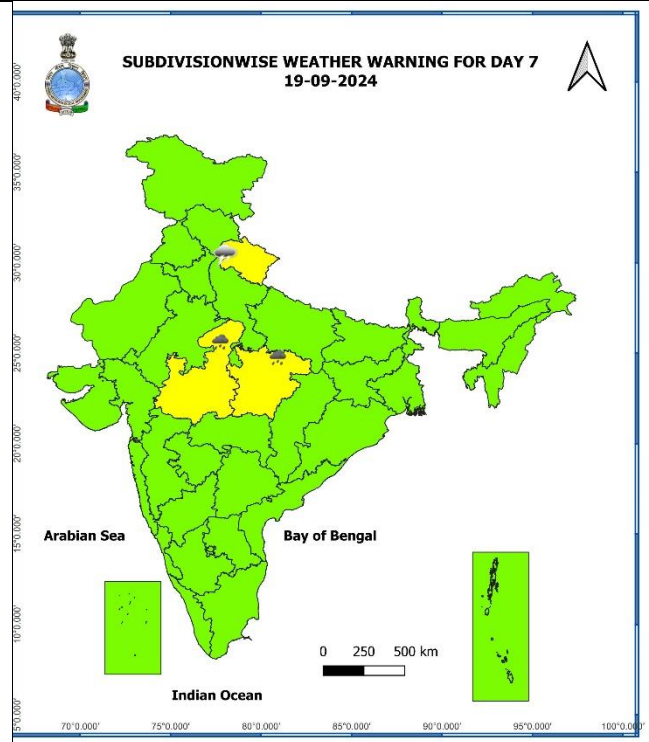
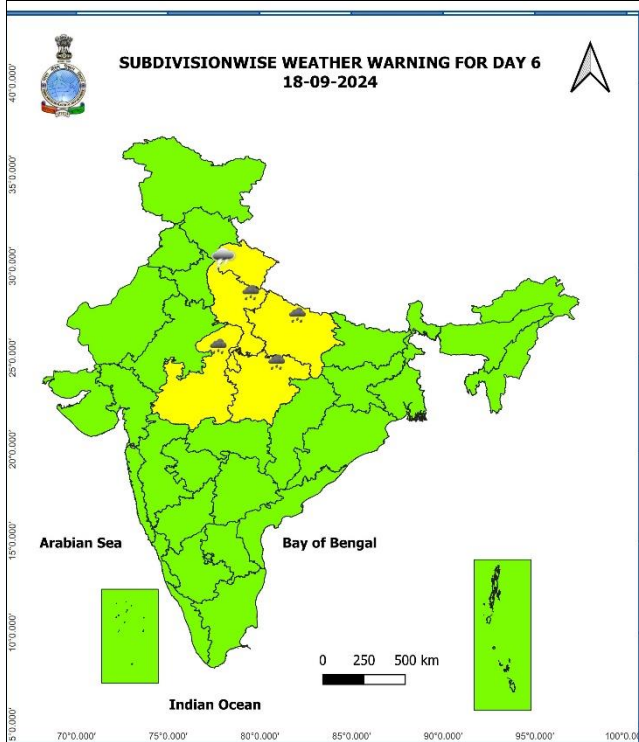
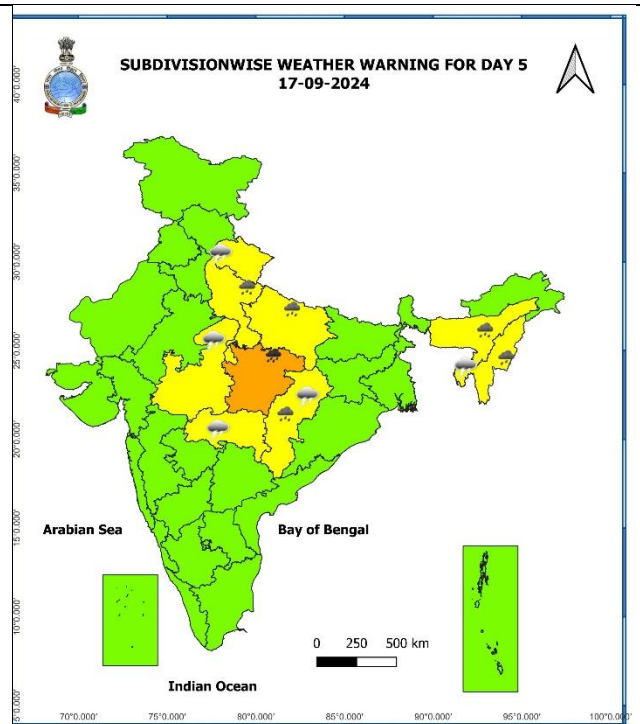
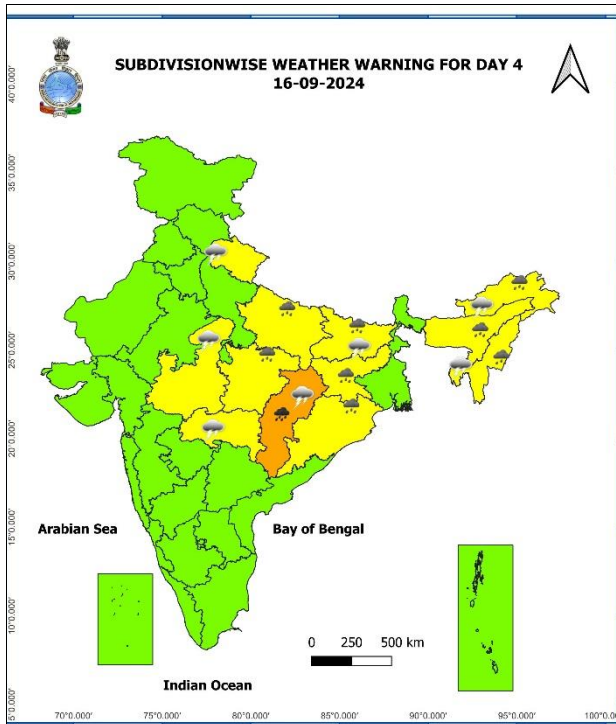
## Heavy Rainfall Warning based on 0300 UTC of 13<sup>th</sup> September, 2024

### (i) Rainfall warning

- **Uttarakhand:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on 13<sup>th</sup> and **heavy rainfall** at isolated places on 14<sup>th</sup> September.
- **Himachal Pradesh:** Light to moderate rainfall at most places is very likely with **heavy rainfall** at isolated places on 13<sup>th</sup> September.
- **Uttar Pradesh:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places on 13<sup>th</sup> and **heavy rainfall** at isolated places on 14<sup>th</sup> September.
- **Haryana:** Light to moderate rainfall at isolated places is very likely with **heavy rainfall** at isolated places on 13<sup>th</sup> & 14<sup>th</sup> September.
- **Flash Flood Guidance: (Graphics Attached)**
- **24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-09-2024:**
- Moderate to High flash flood risk likely over few watersheds & neighbourhoods of
- **Uttarakhand** - Almora, Bageshwar, Chamoli, Champawat, Nanital, Pauri Garhwal, Pithoragarh, Rudraprayag, Tehri Garwal, Udham Singh Nagar and Uttarkashi districts.
- **Himachal Pradesh**- Shiomla, Sirmour 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.
- **Gangetic West Bengal:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at few places and **extremely heavy rainfall** at isolated places on 14<sup>th</sup> ; **heavy to very heavy rainfall** at isolated places on 13<sup>th</sup> and **heavy rainfall** at isolated places on 15<sup>th</sup> September.
- **Odisha:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at few places and **extremely heavy rainfall** at isolated places on 14<sup>th</sup> and **heavy rainfall** at isolated places on 13<sup>th</sup> & 15<sup>th</sup> September.
- **Jharkhand:** Light to moderate rainfall at most places with isolated **heavy rainfall** very likely on 13<sup>th</sup> and **heavy to very heavy rainfall** at isolated places on 14<sup>th</sup> & 15<sup>th</sup> September.
- **Bihar:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places very likely during 13<sup>th</sup>-15<sup>th</sup> September.
- **Chhattisgarh:** Light to moderate rainfall at most places with isolated **heavy rainfall** on 14<sup>th</sup> & 15<sup>th</sup> September.
- **Mizoram & Tripura:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places on 13<sup>th</sup> and isolated **heavy rainfall** during 14<sup>th</sup> - 15<sup>th</sup> September.
- **Assam & Meghalaya:** Light to moderate rainfall at many places is very likely with isolated **heavy rainfall** is likely during 13<sup>th</sup> -15<sup>th</sup> September.

# Warning Graphics





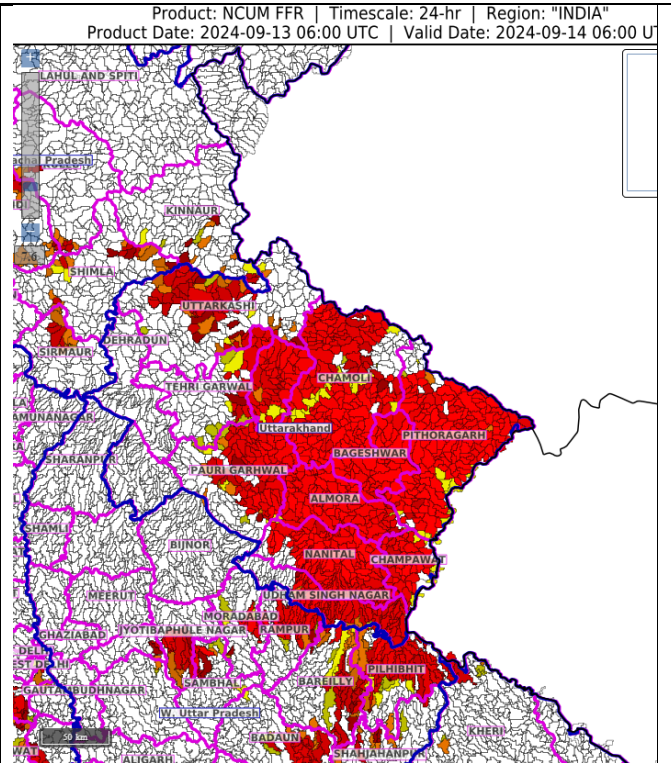
- Action may be taken based on **ORANGE AND RED COLOUR** warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases

## Flash Flood Guidance

**24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-09-2024:**

**Moderate to High flash flood risk** likely over few watersheds & neighbourhoods of **Uttarakhand** - Almora, Bageshwar, Chamoli, Champawat, Nanital, Pauri Garhwal, Pithoragarh, Rudraprayag, Tehri Garwal, Udham Singh Nagar and Uttarkashi districts.

**Himachal Pradesh**- Shiomla, Sirmour 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.



**24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-09-2024:**

**Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of **Gangetic West Bengal** – South and North 24 Paraganas, East Mednipur, Pashim Medipur, Haora, Hugli, Nadia and Bankura.

**Mizoram & Tripura** – Saiha, Lunglai, Serchip, Champai, Aizwal, Mamit and Lawngtai 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.

