

India Meteorological Department

(Ministry of Earth Sciences)

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Sub: Depression over Northeast Madhya Pradesh and adjoining south Uttar Pradesh

The depression over Northeast Madhya Pradesh moved slowly nearly north-northwestwards with a speed of 15 kmph during past 6 hours and lay centred at 1730 hours IST of today, the 11th September near latitude 25.0°N and longitude 79.6°E over northeast Madhya Pradesh and adjoining south Uttar Pradesh, about 30 km west of Khajuraho (Madhya Pradesh), 110 km south-southwest of Hamirpur (Uttar Pradesh), 110 km east-southeast of Jhansi (Uttar Pradesh) and 190 km southeast of Gwalior (Madhya Pradesh).

It is likely to move slowly north-northwestwards during next 24 hrs. The system is under continuous surveillance of Doppler Weather Radar at Bhopal (Madhya Pradesh).

Warnings:

(i) Rainfall warning

East Madhya Pradesh: 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 11th; **heavy to very heavy rainfall** at few places on 12th and heavy rainfall at isolated places on 13th and 14th September.

West Madhya Pradesh: Light to moderate rainfall at many places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on11th & 12th; **heavy to very heavy rainfall** at a few places on 13th & 14th September and **heavy rainfall** at a few places on 15th September.

West Uttar Pradesh: Light to moderate rainfall at many places is very likely with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places on11th, 12th and 13th and heavy rainfall at a few places on 14th & 15th September.

East Uttar Pradesh: Light to moderate rainfall at many places is very likely with heavy rainfall at isolated places on 11th; heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places on12th and heavy rainfall at a few places on 13th, 14th & 15th September.

East Rajasthan: Light to moderate rainfall at many places is very likely with **heavy to very heavy** rainfall at a few places on 11th, 12th & 13th and **heavy rainfall** at isolated places on 14th & 15th September.

West Rajasthan: Light to moderate rainfall at many places is very likely with **heavy rainfall** at a few places on 11th & 12th September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 12-09-2024:

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of

West Uttar Pradesh - Auraiya, Etah, Hamirpur, Jalaun, Jhansi, Lalitpur and Mahoba districts.

East Madhya Pradesh - Chhatarpur, Damoh and Sagar districts.

West Madhya Pradesh - Ashoknagar, Bhind, Bhopal, Datia, Guna, Morena, Rajgarh, Sheopur, Shivpur and videsha 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

(iii) Wind warning:

Strong wind speed reaching 30-40 kmph gusting to 50 kmph is likely to prevail over North Madhya Pradesh and adjoining South Uttar Pradesh during next 24 hours.

(iv) Impact Expected (East Madhya Pradesh, West Madhya Pradesh, West Uttar Pradesh, East Uttar Pradesh, East Rajasthan and West Rajasthan due to heavy rainfall)

- ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ✓ Occasional reduction in visibility due to heavy rainfall.
- ✓ Disruption of traffic in major cities and roadways due to water logging in roads leading to increased travel time.
- ✓ Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

(v) Action Suggested (East Madhya Pradesh, West Madhya Pradesh, West Uttar Pradesh, East Uttar Pradesh, East Rajasthan and West Rajasthan)

- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ Check for traffic congestion on your route before leaving for your destination.
- ✓ Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- ✓ Avoid staying in vulnerable structure.

(vi) Agromet advisories for Heavy Rainfall likely over various parts of the country

- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.

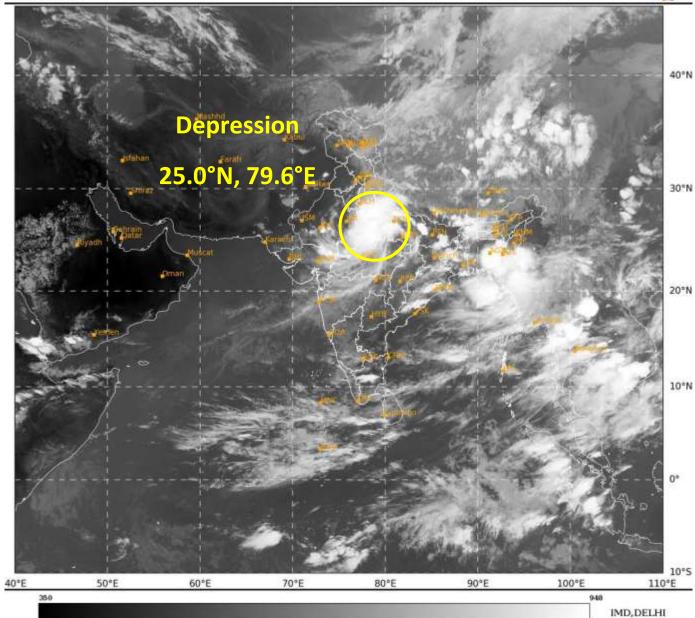
Significant amount of rainfall recorded from 0830 hours IST to 1730 hours IST of today, the 11th September (cm) is given in Annexure-I

The next bulletin will be issued at 0230 hrs IST of tomorrow, the 12th September. 2024.

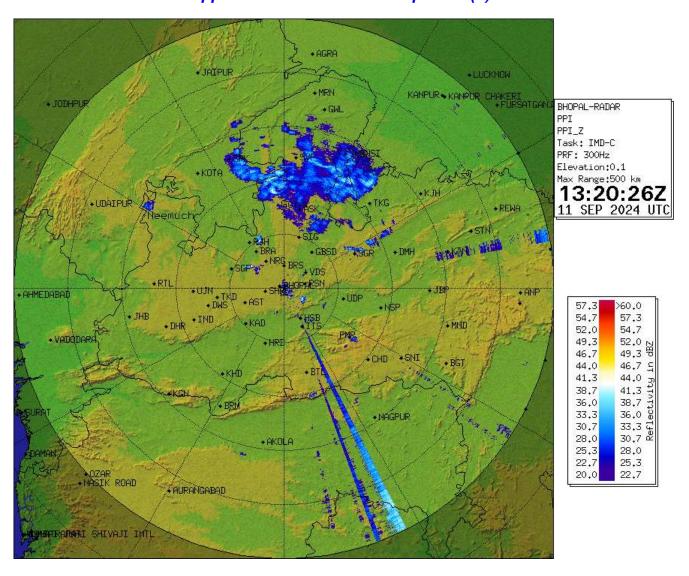
(Dr Ananda Kumar Das) Scientist- F, RSMC, New Delhi

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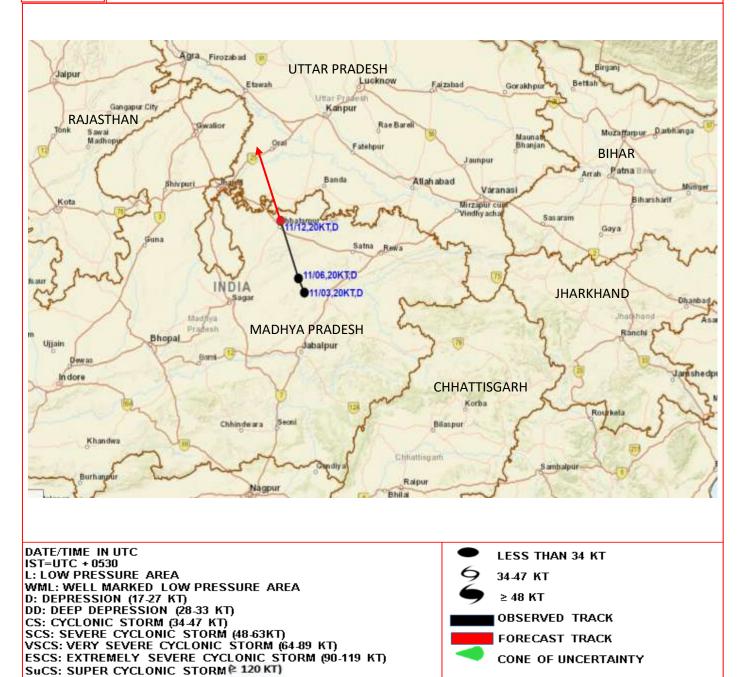


Doppler Weather Radar at Bhopal PPI(Z)

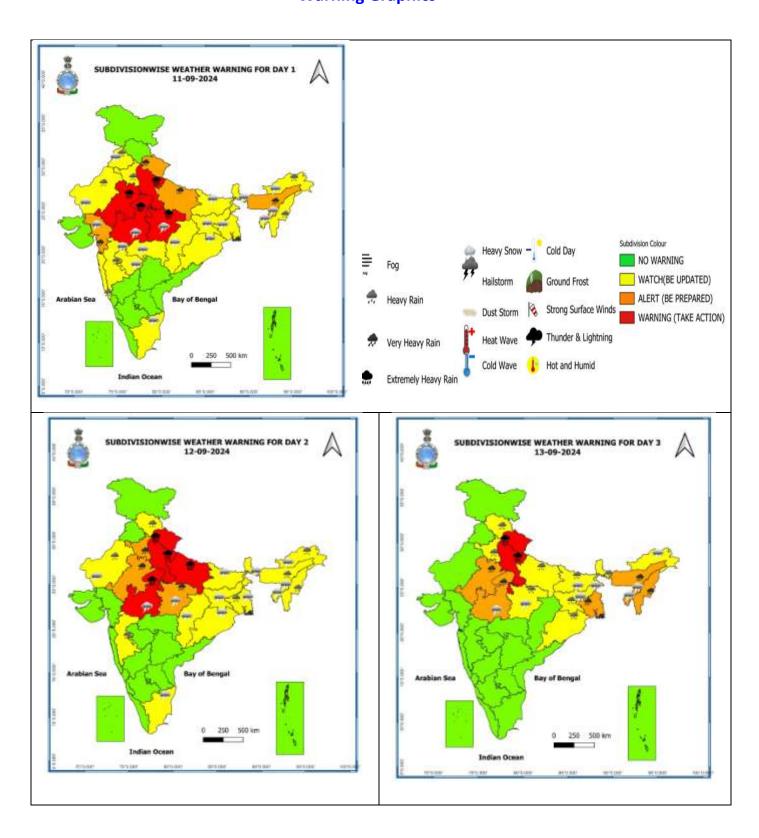


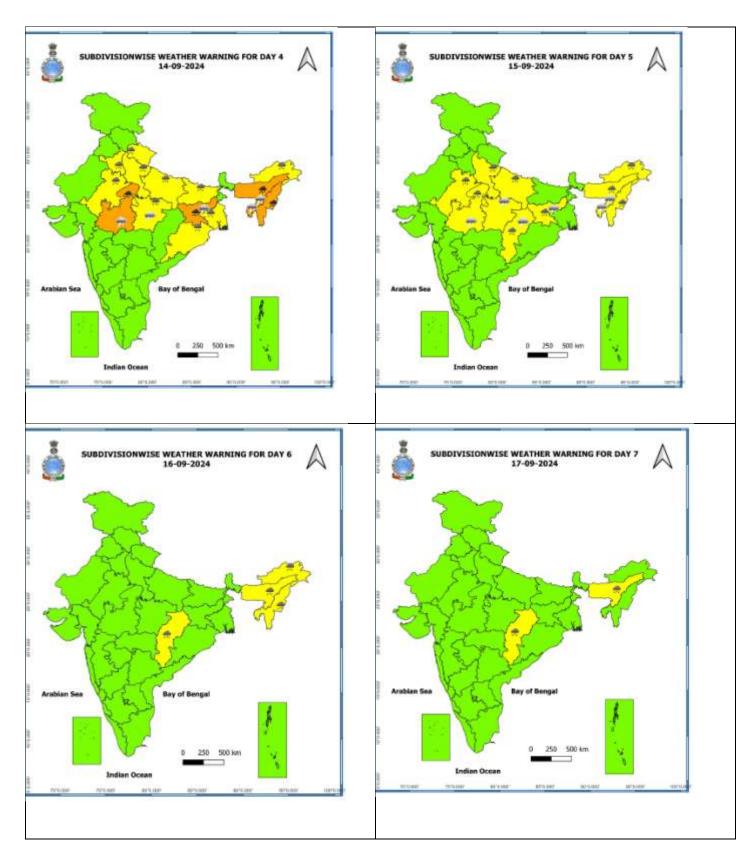


OBSERVED AND FORECAST TRACK OFDEPRESSION OVER NORTHEAST MADHYA PRADESH AND ADJOINING SOUTH UTTAR PRADESH BASED ON 1200 UTC (1730 IST) OF 11TH SEPTEMBER, 2024.



Warning Graphics





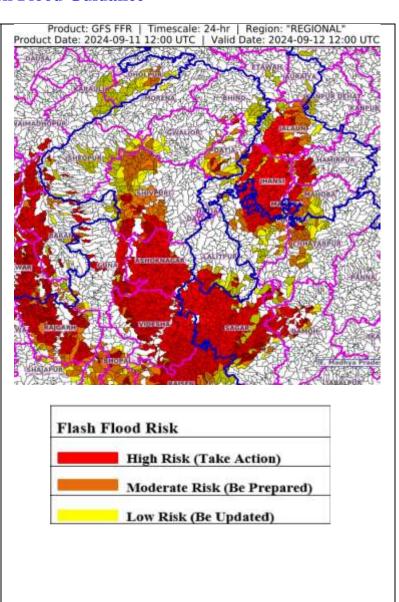
- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance

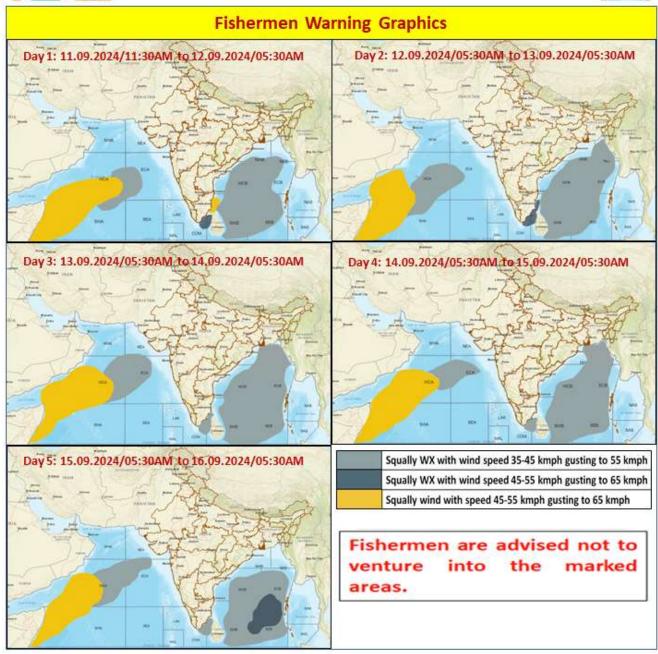
24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 12-09-2024:

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of West Uttar Pradesh -Etah, Hamirpur, Auraiya, Jalaun, Jhansi, Lalitpur and districts.East Mahoba **Pradesh** Madhya Chhatarpur, Damoh and Sagar Madhya districts.West Pradesh Ashoknagar, Bhind, Bhopal, Datia, Guna, Morena, Rajgarh, Sheopur, Shivpuri and Videsha 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.







Significant amount of rainfall recorded from 0830 hours IST to 1730 hours IST of today, the 11th September (cm):

East Rajasthan: Rajakhera (Dholpur)-14, Aklera (Jhalawar) & Dholpur-7 each, Pilani, Mount Abu & Vanasthali Vidyapeeth-1 each,

East Madhya Pradesh: Nowgong-10, Khajuraho-5, Malanjkhand & Sagar-1 each,

West Madhya Pradesh:Pachmarhi-11, Shivpuri-7, Gwalior-6, Bhopal-5, Raisen & Khargone-2 each,

West Uttar Pradesh: Jhansi-10, Deomali-4, Hamirpur-3, Bareilly & Orai-2 each,

Saurashtra & Kutch: Mahuva-4;

Madhya Maharashtra: Mahabaleshwar-3,