



**India Meteorological Department
(Ministry of Earth Sciences)**

NATIONAL BULLETIN NO. 2 (LAND/01/2024)

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DATED:03.08.2024

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Sub: Depression over north Jharkhand and neighbourhood

The depression over north Jharkhand and neighbourhood moved westwards with a speed of 5 kmph during past 6 hours, and lay centered at 2330 hours IST of 2nd August over the same region near latitude 24.2°N and longitude 84.9°E, about 60 km south of Gaya (Bihar) and 90 km east-northeast of Daltonganj (Jharkhand).

It is likely to move west-northwestwards across Jharkhand, southeast Uttar Pradesh, east Madhya Pradesh and adjoining north Chhattisgarh during next 48 hours.

Warnings:

(i) Rainfall Warning:

Jharkhand:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places is very likely on 3rd and isolated **extremely heavy rainfall** is also very likely till 3rd August morning.

Bihar:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is very likely over Bihar during 3rd to 6th August. Isolated **extremely heavy rainfall** is also very likely till morning of 3rd August.

Chhattisgarh:

Light to moderate rainfall at most places with **heavy to extremely heavy rainfall** at isolated places is very likely over north Chhattisgarh till morning of 3rd August.

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places is very likely till 3rd Morning and isolated **heavy rainfall** is very likely on 3rd August.

West Bengal:

Light to moderate rainfall at most places with **heavy to extremely heavy rainfall** at isolated places is very likely over Sub-Himalayan West Bengal during 3rd to 6th August.

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is very likely over Gangetic West Bengal till 3rd Morning and isolated **heavy rainfall** is very likely over on 3rd August thereafter.

East Madhya Pradesh:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is very likely during 3rd to 4th and **extremely heavy rainfall** at isolated places is very likely on 3rd August.

West Madhya Pradesh:

Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places is very likely during 3rd to 5th and **extremely heavy rainfall** at isolated places is very likely on 3rd and 4th August.

East Uttar Pradesh:

Light to moderate rainfall at many places with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places over southeast Uttar Pradesh is very likely till morning of 3rd August.

Light to moderate rainfall at a few places with **heavy rainfall** at isolated places is very likely during 3rd to 6th August.

East Rajasthan:

Light to moderate rainfall at most places with heavy rainfall at isolated places is very likely during 3rd to 6th; very heavy rainfall at isolated places on 3rd and **extremely heavy rainfall** is very likely on 4th August.

(ii) Wind warning:

- Strong wind speed reaching 30-40 kmph gusting to 50 kmph is very likely over Gangetic West Bengal, Jharkhand, south Bihar, north Odisha, north Chhattisgarh and adjoining southeast Uttar Pradesh on 3rd August.
- Strong wind speed reaching 30-40 kmph gusting to 50 kmph is very likely over East Madhya Pradesh, north Chhattisgarh, south Bihar and adjoining south Uttar Pradesh on 3rd and 4th August.
- Strong wind speed reaching 30-40 kmph gusting to 50 kmph is very likely over west Madhya Pradesh and adjoining east Rajasthan on 4th and 5th August.

(iii) Impact Expected

- 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 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.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

(iv) Action Suggested

- 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.

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

- Make provision for draining out excess water from crop fields to avoid water stagnation in West Bengal, Sub Himalayan West Bengal, Odisha, Jharkhand, Bihar, Rajasthan, Madhya Pradesh, Chhattisgarh.
- Provide mechanical support to horticultural crops and staking to vegetables.

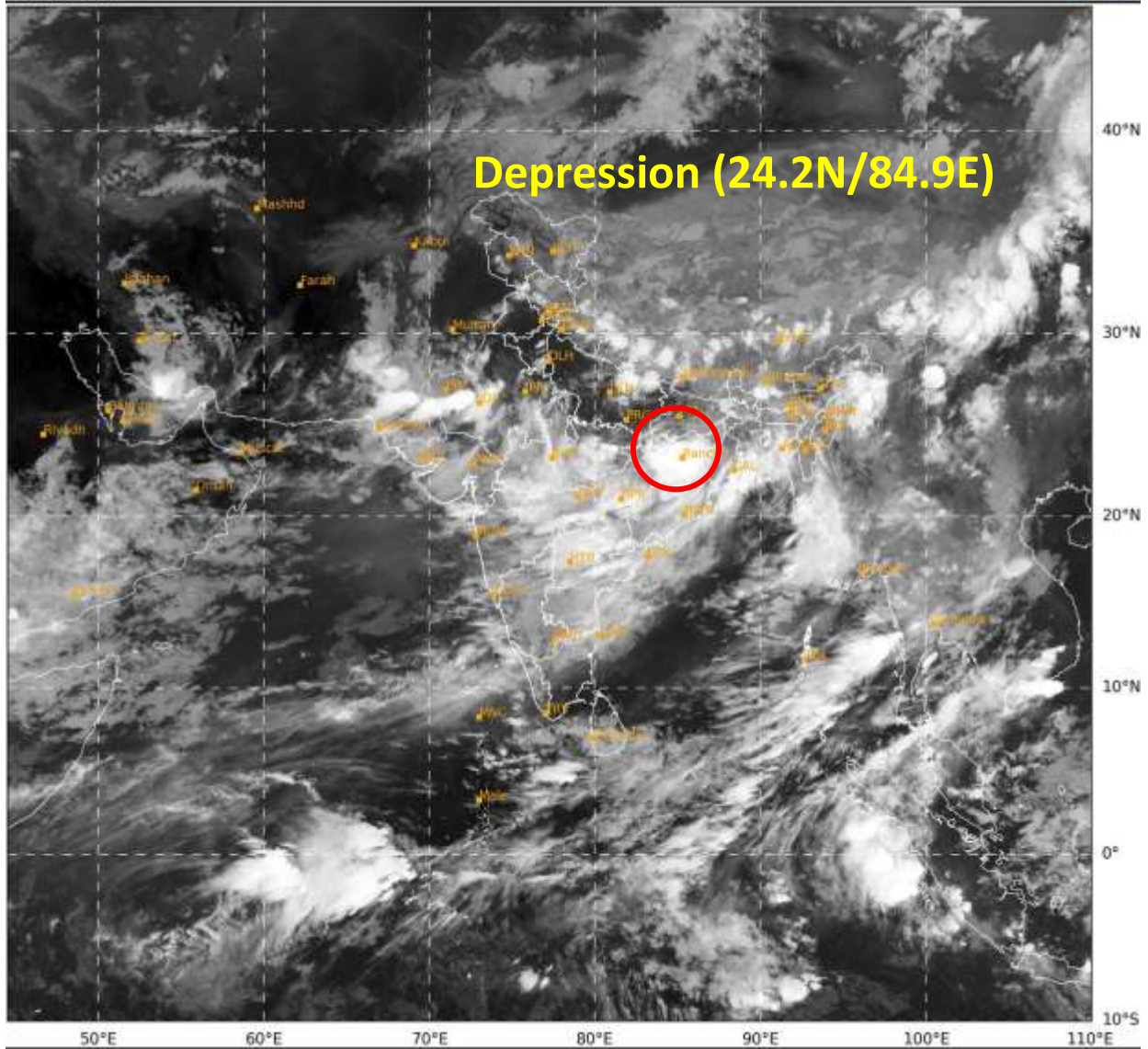
Next bulletin will be issued at 0830 hours IST of today, the 3rd August, 2024.

(Dr. Shashi Kant)
Scientist D, Cyclone Warning Division, New Delhi

Copy to: ACWC Kolkata/RMC, New Delhi/RMC, Nagpur/MC, Ranch/MC, Raipur/MC, Patna/MC, Bhopal/MC, Jaipur/CWC Bhubaneswar/MC, Lucknow

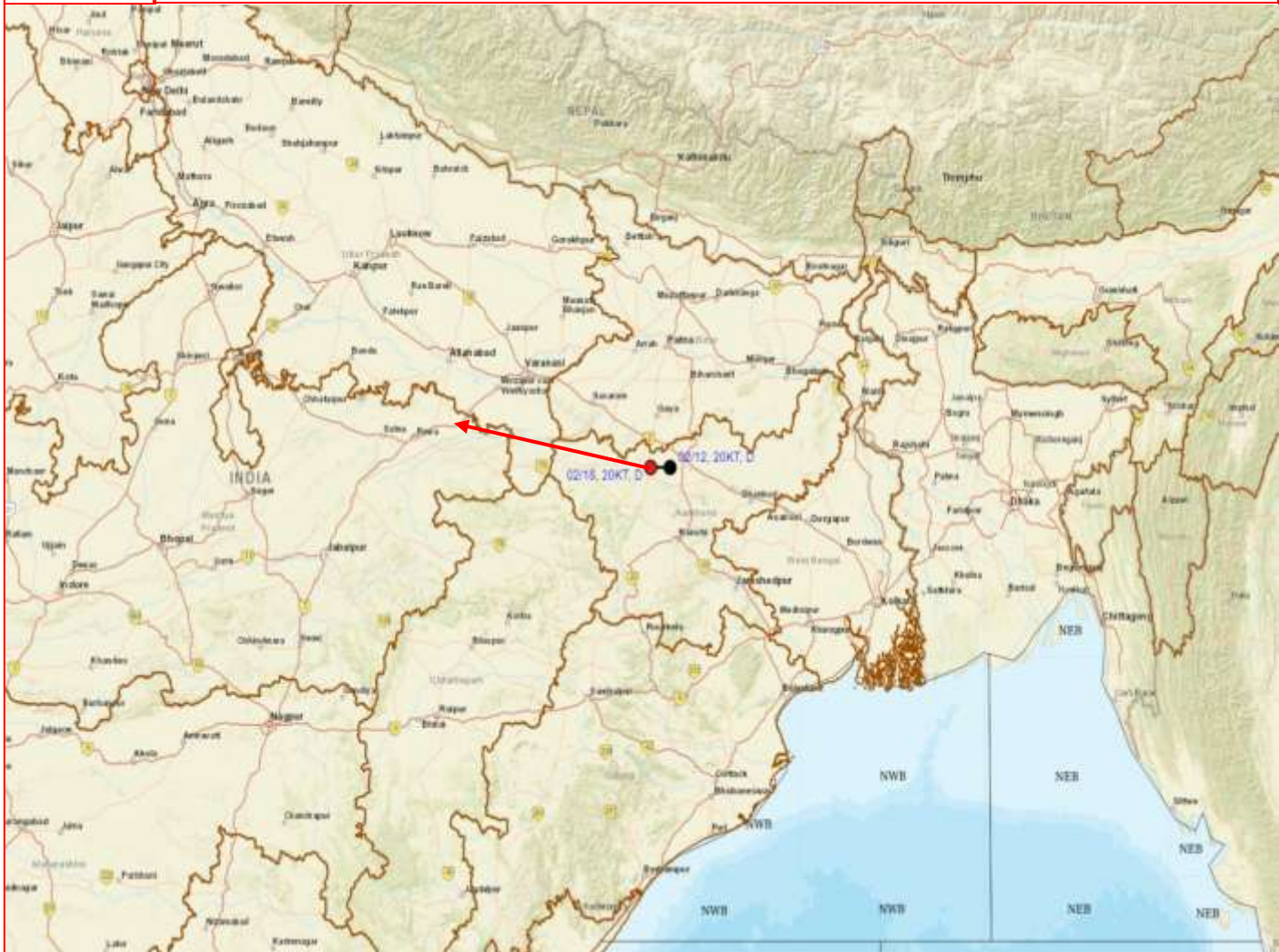
SAT : INSAT-3DR IMG
IMG_TIR1 10.8 um
LIC Mercator

02-08-2024/(1745 to 1812) GMT
02-08-2024/(2315 to 2342) IST





OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTH JHARKHAND AND NEIGHBOURHOOD BASED ON 1800 UTC OF 02ND AUGUST, 2024.



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)


CS: CYCLONIC STORM (34-47 KT)


SCS: SEVERE CYCLONIC STORM (48-63KT)


VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (\geq 120 KT)


 LESS THAN 34 KT

 34-47 KT

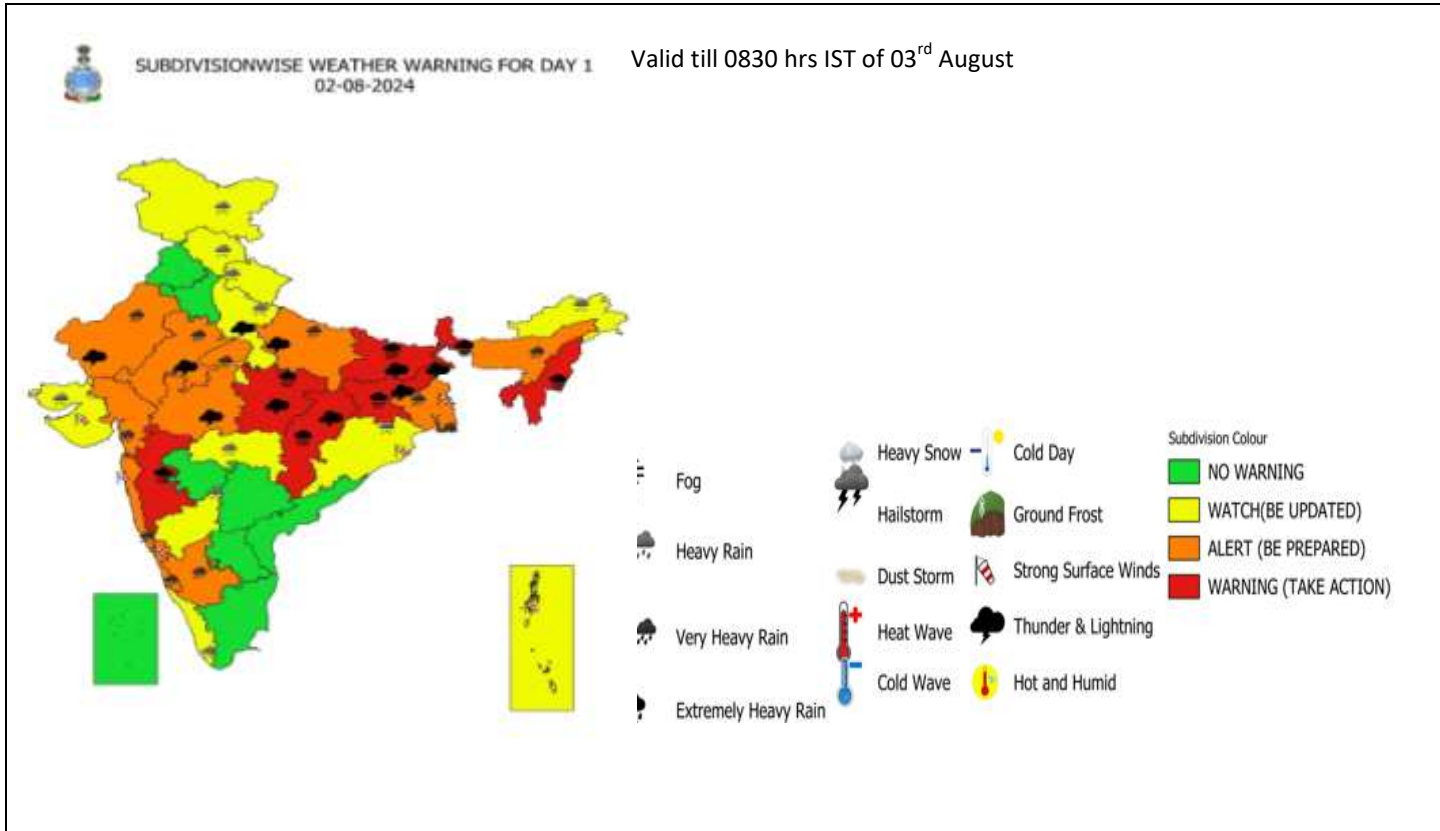
 \geq 48 KT

 OBSERVED TRACK

 FORECAST TRACK

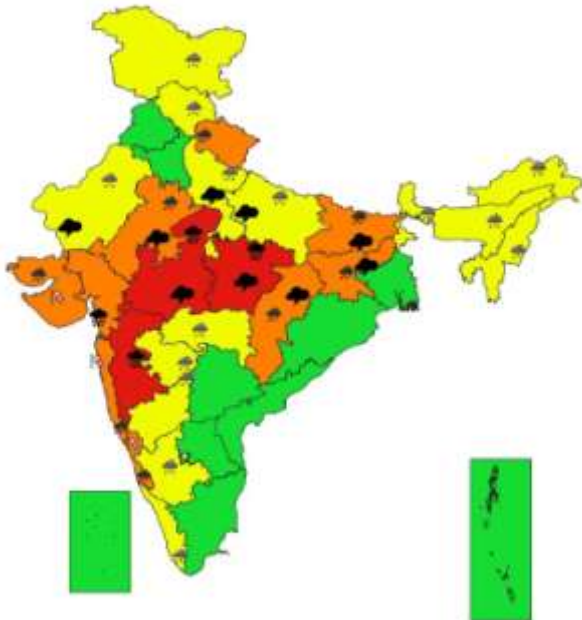
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Warning Graphics

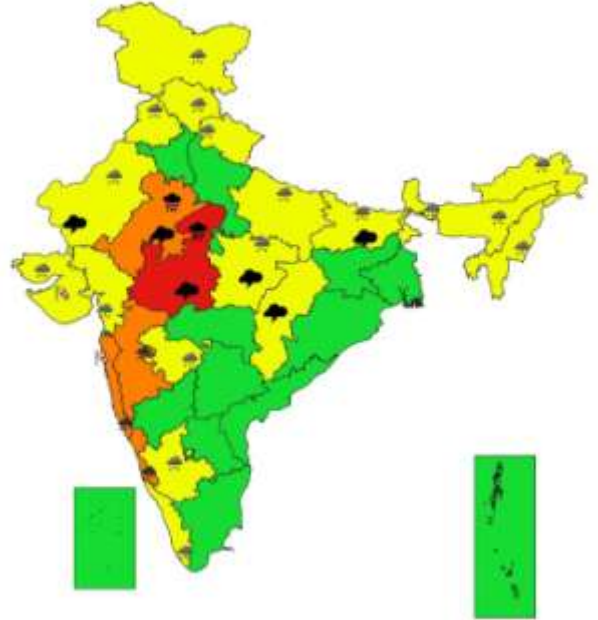




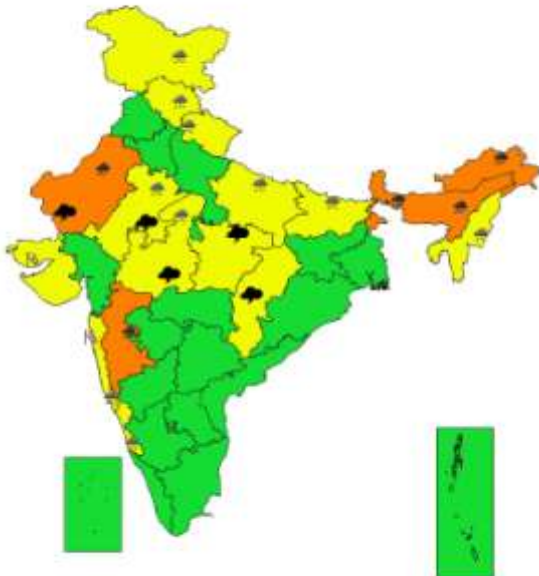
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
03-08-2024



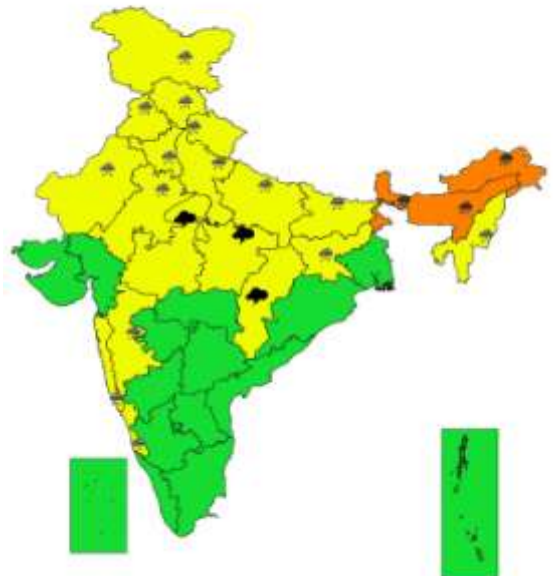
SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
04-08-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
05-08-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
06-08-2024

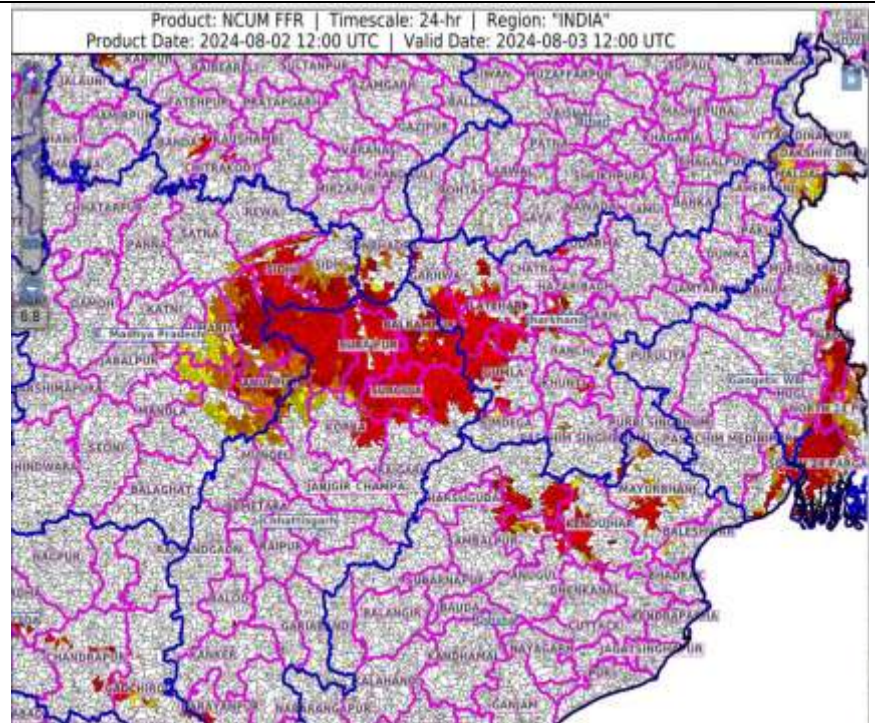


- Action may be taken based on **ORANGE AND RED COLOUR** warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 03-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Chhattisgarh, East Madhya Pradesh, Gangetic West Bengal and Jharkhand Met Sub-divisions during next 24 hours. 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 1730 IST of 03-08-2024 :

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

