



India Meteorological Department
(Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 3 (LAND/01/2024)

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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 0530 hours IST of today, the 3rd August over the same region near latitude 24.2°N and longitude 84.6°E, about 70 km south-southwest of Gaya (Bihar) and 60 km east-northeast of Daltonganj (Jharkhand).

It is likely to move west-northwestwards across northwest 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 over Northwest Jharkhand on 3rd August.

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.

Chhattisgarh:

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

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 also 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 also 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 also over southeast Uttar Pradesh is very likely on 3rd August.

Light to moderate rainfall at a few places with **heavy rainfall** at isolated places is very likely during 4th 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 kutchha 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.

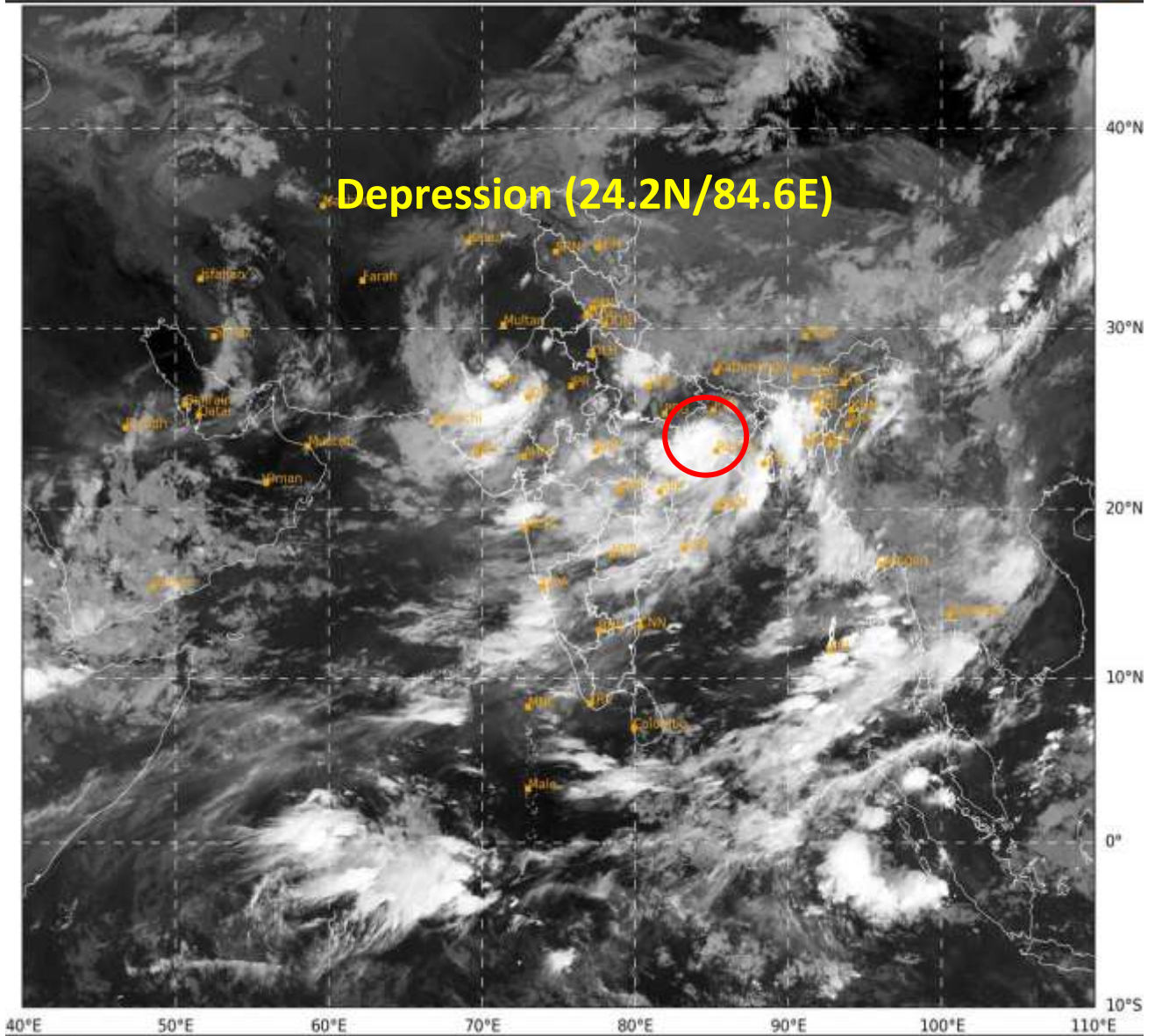
(v) Agromet advisories for Heavy Rainfall likely over various parts of the country

- 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 1130 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



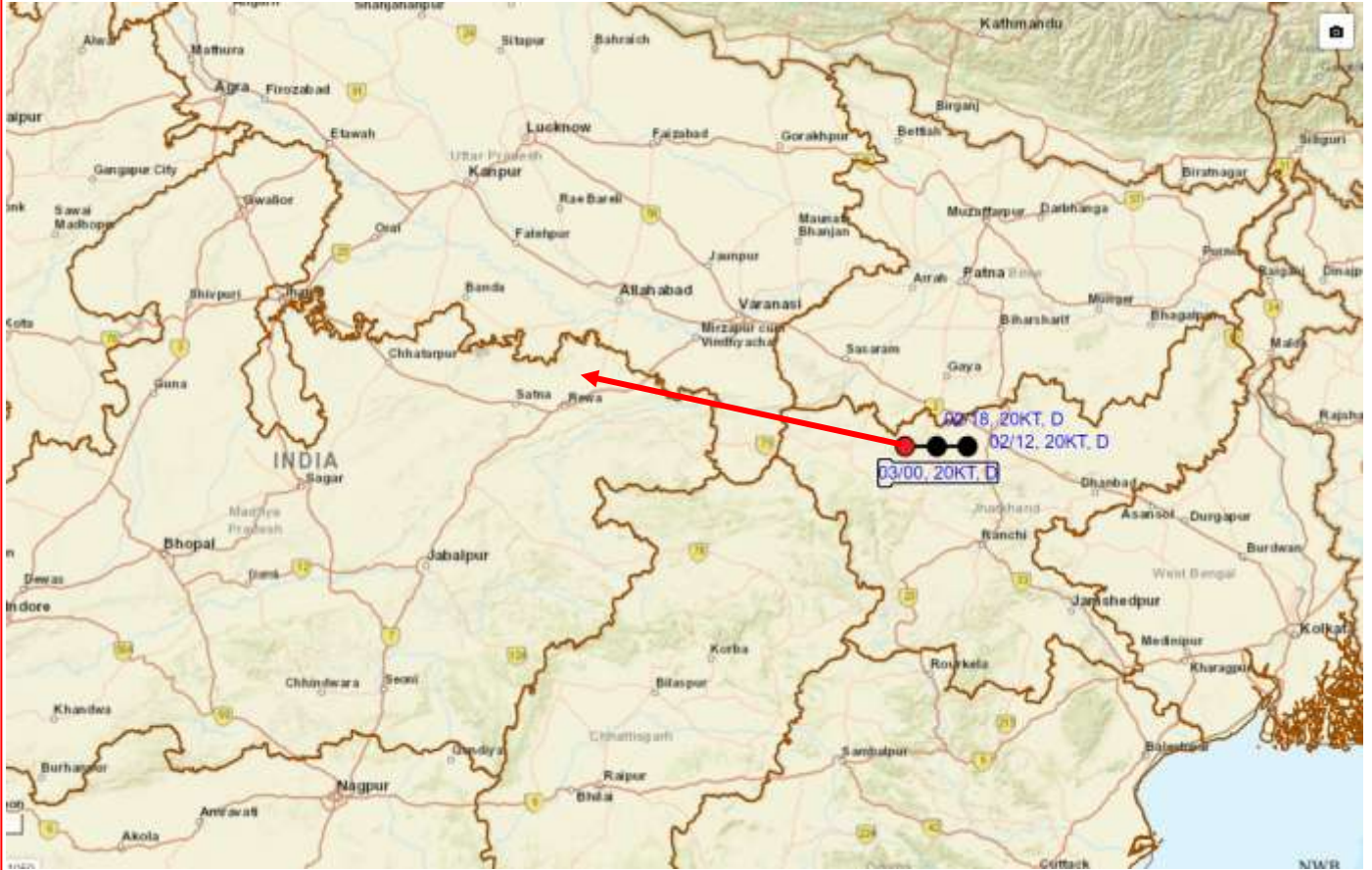
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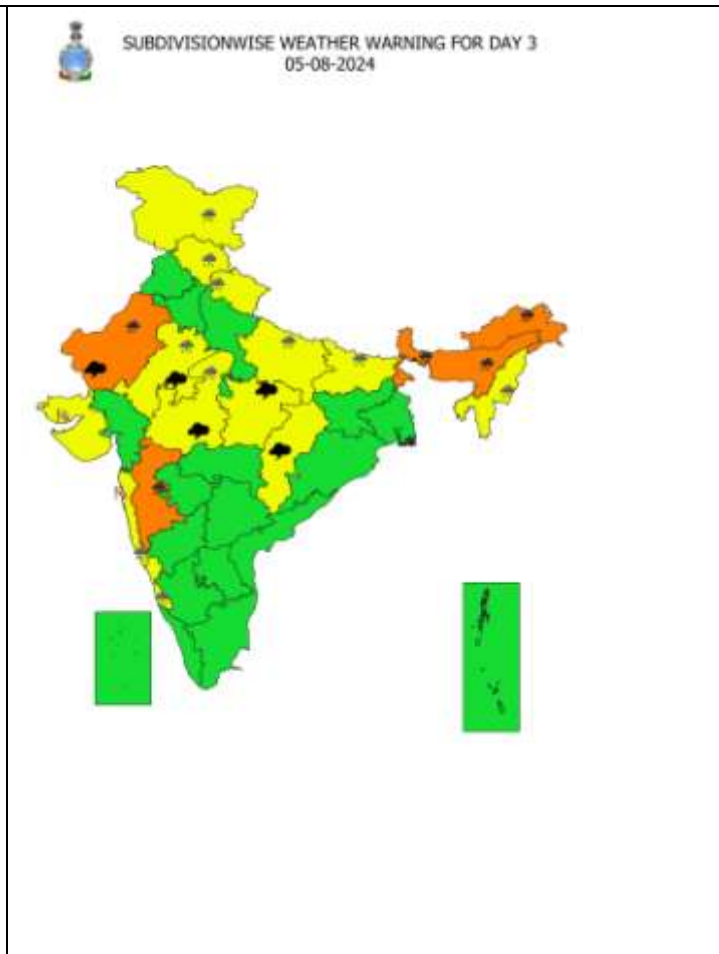
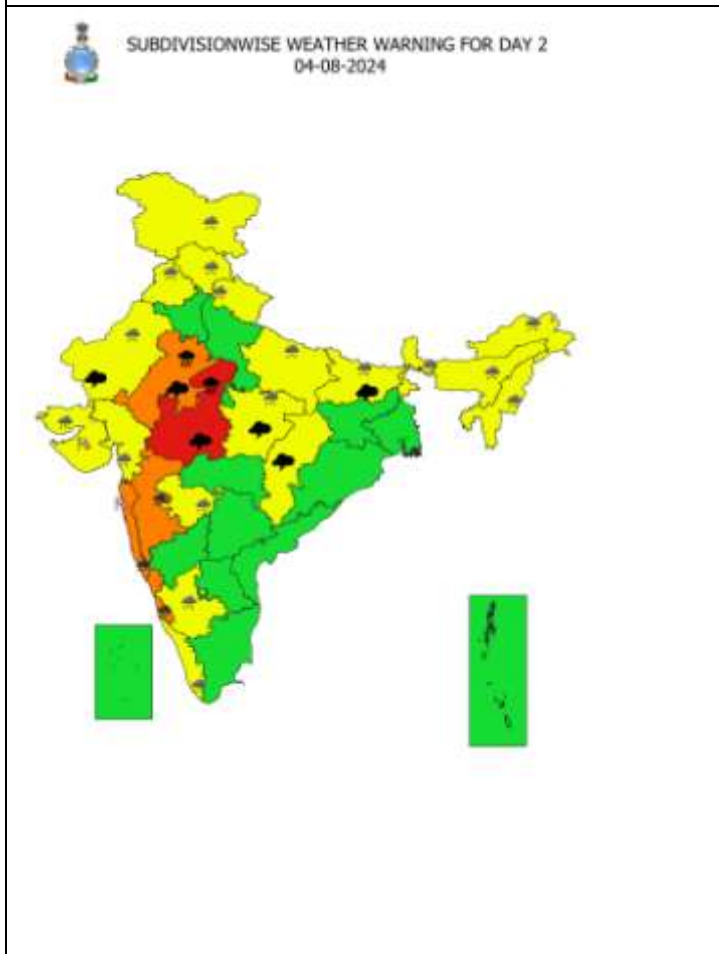
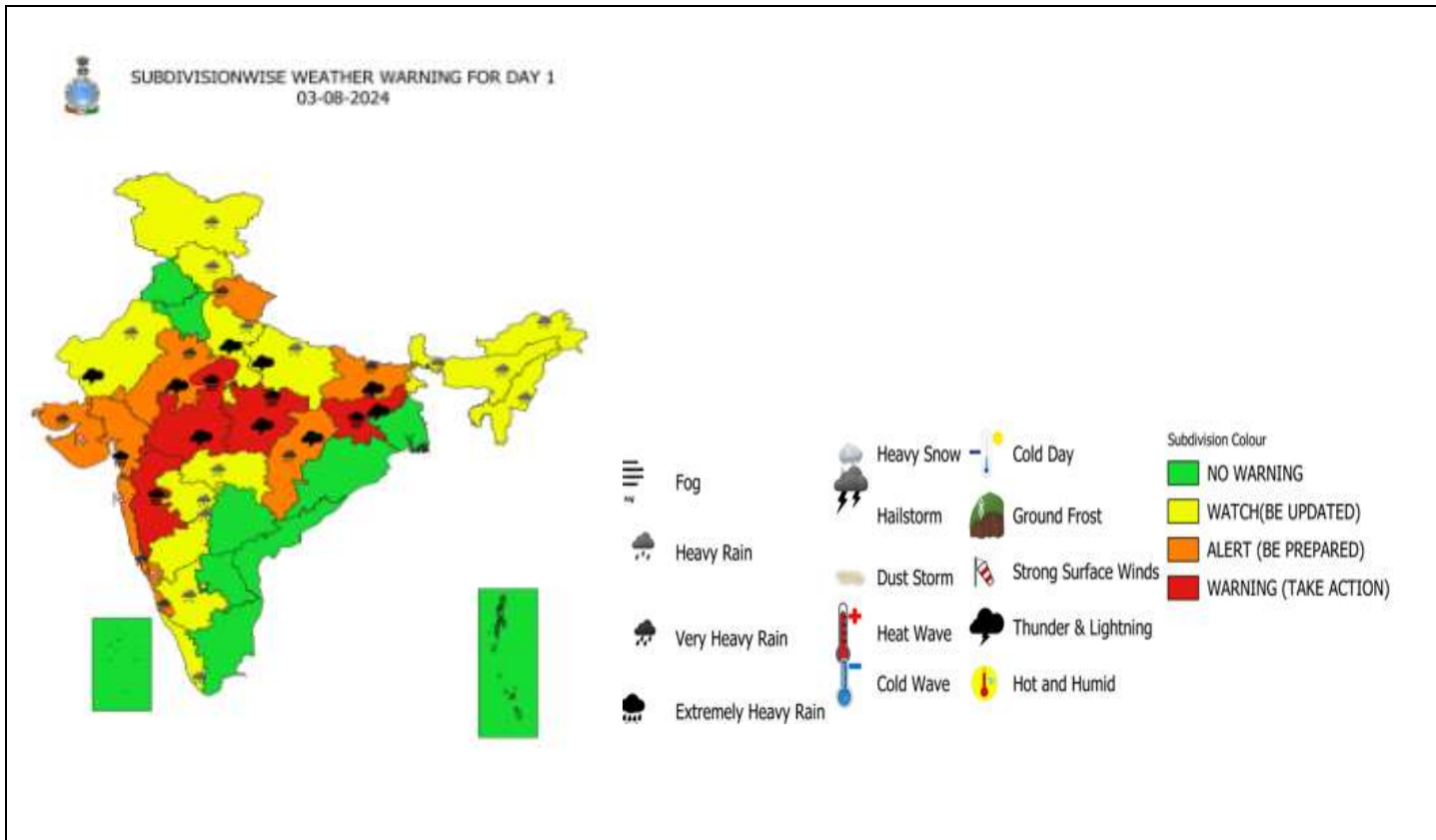
OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTH JHARKHAND AND NEIGHBOURHOOD BASED ON 0000 UTC OF 03RD AUGUST, 2024.

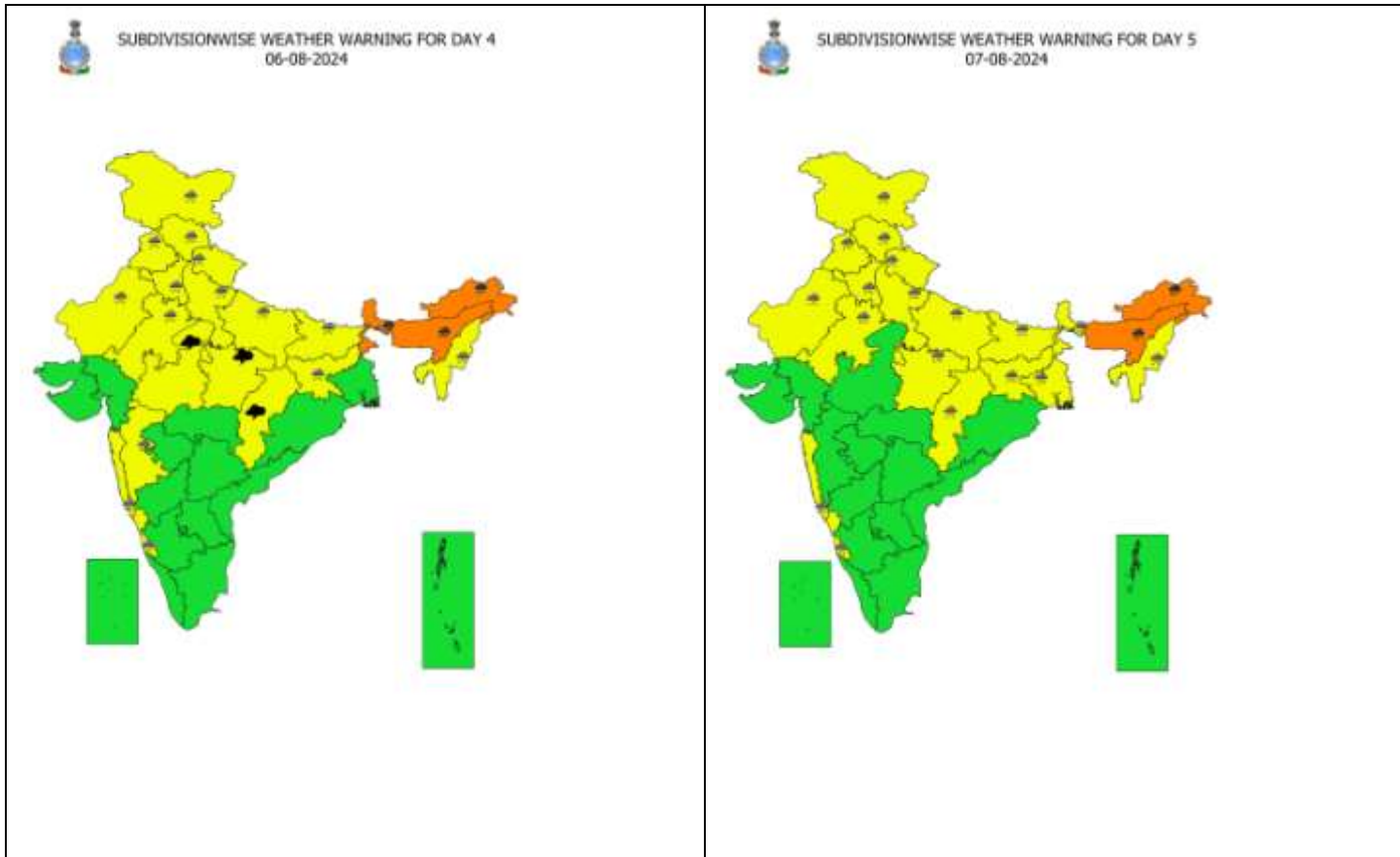


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63 KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

Warning Graphics





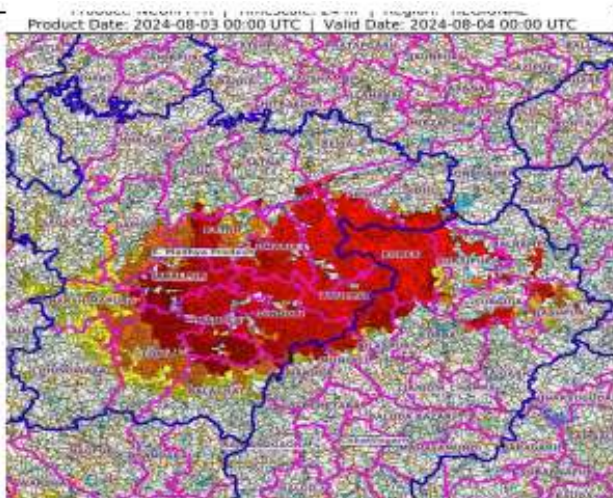
- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 04-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **East Madhya Pradesh adjoining Northern parts of Chhattisgarh** and 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 0530 IST of 04-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **South Gujarat Region and Northern parts of Madhya Maharashtra** 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.

