



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

**NATIONAL BULLETIN NO. 2 (LAND/02/2024)**

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**Sub: (a) Depression over northwest Madhya Pradesh and adjoining east Rajasthan**

The depression over northwest Madhya Pradesh and neighbourhood moved westwards during past 3 hours and lay centered at 0830 hours IST of today, the 25<sup>th</sup> August over northwest Madhya Pradesh and adjoining east Rajasthan near latitude 24.5°N and longitude 76.8°E, about 60 km west-southwest of to Guna (West Madhya Pradesh) and 120 km southeast of Kota (East Rajasthan).

It is likely to move nearly west-southwestwards, intensify further into a deep depression over south Rajasthan and adjoining north Gujarat by 27th August. Thereafter, it will continue to move nearly west-southwestwards and emerge into northeast Arabian Sea off Saurashtra & Kutch and adjoining Pakistan coasts around 29th August.

**(b) Upper-air Cyclonic Circulation over south Bangladesh & neighbourhood**

The upper air cyclonic circulation over south Bangladesh & neighbourhood lay over the same region extending upto middle tropospheric level at 0830 IST of today, the 25th August 2024. Under its influence, a low pressure area is likely to form over the same region during next 03 hours. Thereafter, it is likely to become more marked and move west-northwestwards across Gangetic West Bengal, north Odisha and Jharkhand during subsequent 2 days.

## **Warnings:**

### **(i) Rainfall Warning:**

**West Madhya Pradesh:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places on 25<sup>th</sup> & 26<sup>th</sup> with extremely heavy rainfall at isolated places is likely on 25<sup>th</sup> August.

**East Madhya Pradesh:** Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places is likely on 25<sup>th</sup> and 26<sup>th</sup> August.

**East Rajasthan:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is likely on 25<sup>th</sup> and 26<sup>th</sup> August.

**West Rajasthan:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely during 25<sup>th</sup> to 27<sup>th</sup>.

**South Rajasthan:** Light to moderate rainfall at most places with isolated heavy to extremely heavy rainfall over **South Rajasthan** is likely on 27<sup>th</sup> August.

**Gujarat region:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall likely on 25<sup>th</sup> and 26<sup>th</sup> and heavy to very heavy with isolated extremely heavy rainfall over south Gujarat on 27<sup>th</sup> August.

**Saurashtra & Kutch:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is likely during 25<sup>th</sup> -28<sup>th</sup> August and heavy to extremely heavy rainfall at isolated places is likely on 29<sup>th</sup> August.

**Konkan & Goa:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is likely on 25<sup>th</sup> and 26<sup>th</sup> and heavy to very heavy rainfall on 27<sup>th</sup> August.

**Madhya Maharashtra:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is likely on 25<sup>th</sup> & 26<sup>th</sup> and heavy to very heavy rainfall at isolated places is likely on 27<sup>th</sup> August.

**Odisha:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely on 25<sup>th</sup> and 26<sup>th</sup> August.

**Gangetic West Bengal:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely on 25<sup>th</sup> and 26<sup>th</sup> August.

**Jharkhand:** Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places is likely on 25<sup>th</sup> and 26<sup>th</sup> August.

### **(ii) Wind warning:**

- Strong surface wind speed reaching 30-40 kmph gusting to 50 kmph is very likely to prevail over Madhya Pradesh during 25<sup>th</sup> & 26<sup>th</sup> August.

- Strong surface wind speed reaching 30-40 kmph gusting to 50 kmph is very likely to prevail over South Rajasthan on 25<sup>th</sup> & 26<sup>th</sup> August and squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail on South Rajasthan on 27<sup>th</sup> August.
- Strong surface wind speed reaching 30-40 kmph gusting to 50 kmph is very likely over Gujarat state, along and off Gujarat & adjoining Pakistan and north Maharashtra coasts and northeast Arabian Sea on 26<sup>th</sup> August, becoming squally wind speed reaching 40-50 kmph gusting to 60 kmph over the same region on 27<sup>th</sup> & 28<sup>th</sup> August.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely to prevail along & off Gujarat & adjoining Pakistan coasts and northeast and adjoining eastcentral Arabian Sea on 29<sup>th</sup> August. Squally wind speed reaching 40-50 kmph gusting to 60 kmph for interior district of Gujarat state on 29<sup>th</sup> August.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail along and off north Maharashtra coasts on 28<sup>th</sup> & 29<sup>th</sup> August.

**(iii) Sea condition:**

- Squally weather with Rough to very Rough sea conditions is very likely to prevail along & off Gujarat & adjoining Pakistan and north Maharashtra Coasts and Northeast & adjoining Eastcentral Arabian Sea till 30<sup>th</sup> August.
- Squally weather with Rough Sea condition is very likely to prevail over North Bay of Bengal and along & off North Odisha, West Bengal, Bangladesh coasts on 25<sup>th</sup> and 26<sup>th</sup> August.

**(iv) Fisherman warning:**

- Fishermen are advised not venture into Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining Pakistan and north Maharashtra Coasts till 30<sup>th</sup> August.
- Fishermen are advised not to venture into North Bay of Bengal and along & off North Odisha, West Bengal, Bangladesh coasts on 25<sup>th</sup> and 26<sup>th</sup> August.

**(v) Advisory for offshore/onshore Exploration and Production (E & P) Operators:**

The small ships and offshore -onshore E & P operators, shipping and port authorities along & off Gujarat & north Maharashtra Coasts and Northeast & adjoining Eastcentral Arabian Sea are advised to keep watch on developing weather and take necessary actions.

**(vi) 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.
- Reduction of visibility over sea area due to sea spray induced by strong wind and 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)

**(v) Action Suggested**

- Fishermen are advised not venture into Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining Pakistan and north Maharashtra Coasts till 30th August.
- Fishermen are advised not to venture into North Bay of Bengal and along & off North Odisha, West Bengal, Bangladesh coasts on 25th and 26th August.
- Judicious regulation of offshore/onshore Operations
- 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.

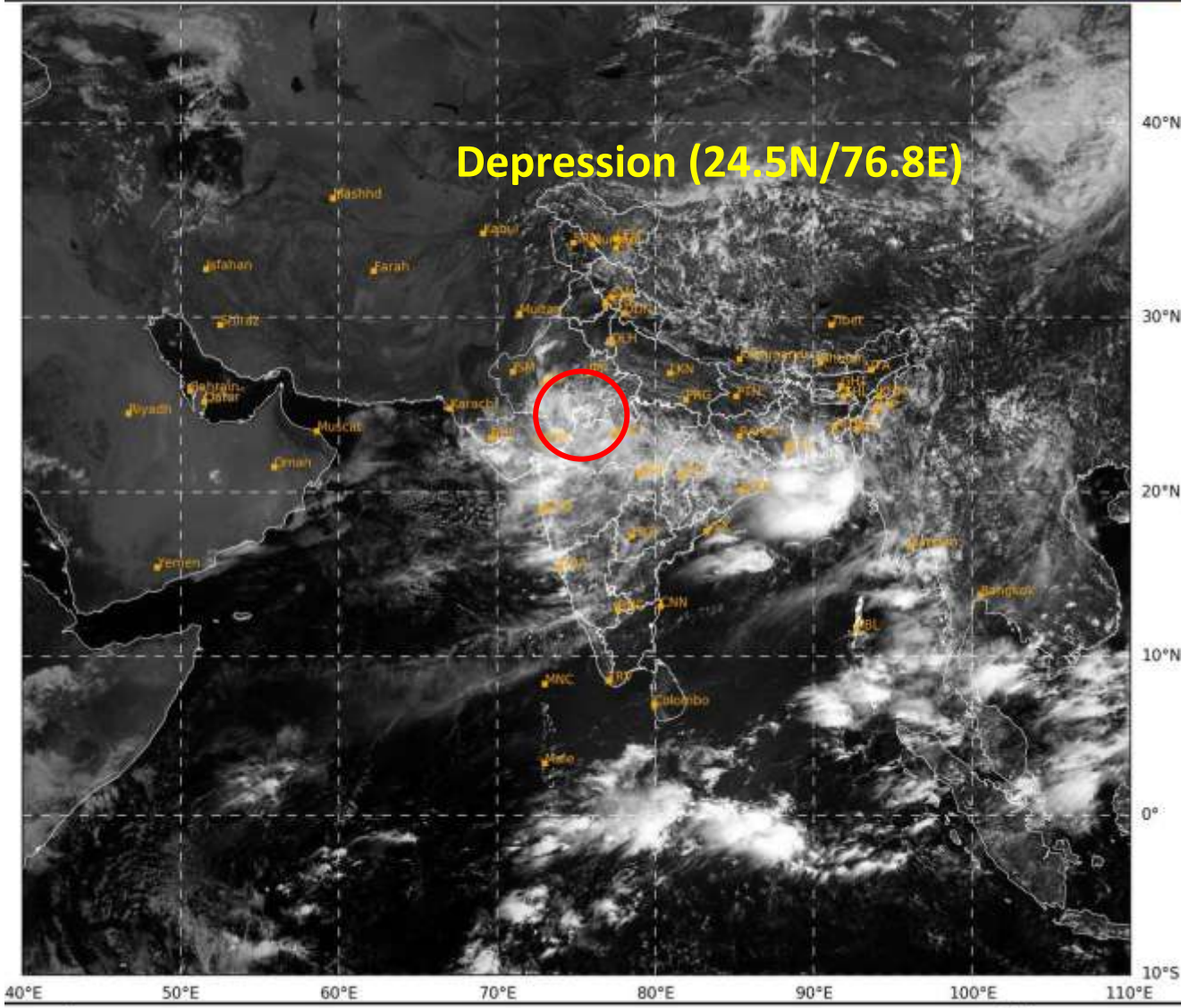
**(vi) Agromet. advisories for Heavy Rainfall likely over various parts of the country**

- Make provision for draining out excess water from crop fields to avoid water stagnation in Madhya Pradesh, South Rajasthan, Gujarat State and North Maharashtra.
- Provide mechanical support to horticultural crops and staking to vegetables.

**Next bulletin will be issued at 1430 hours IST of today, the 25<sup>th</sup> August, 2024.**

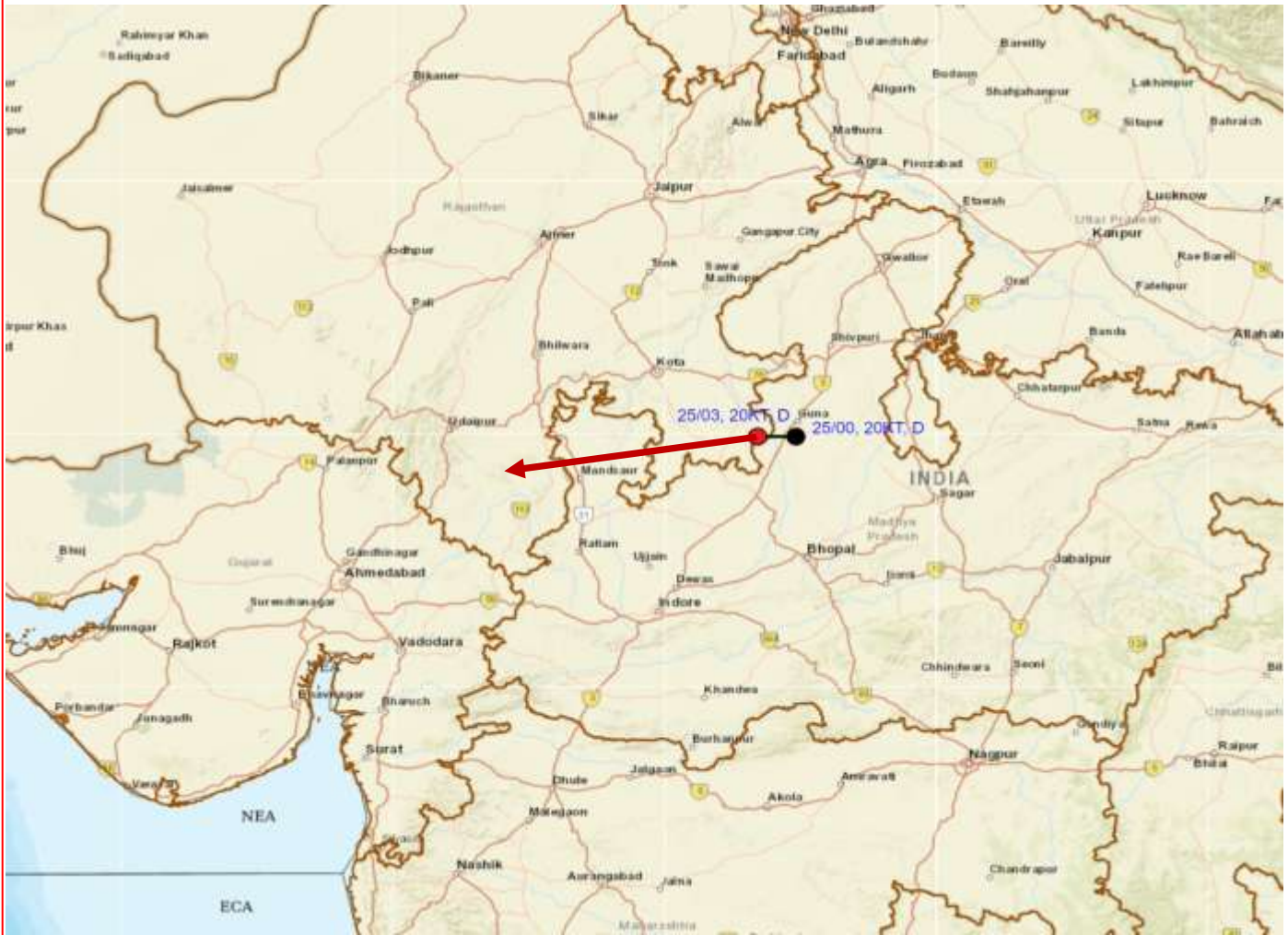
**(Dr. Ananda Kumar Das)**  
**Scientist F, Cyclone Warning, New Delhi**

*Copy to: ACWC Kolkata/ACWC Mumbai/RMC Mumbai/CWC Ahmedabad/MC, Jaipur/RMC, Nagpur/MC, Bhopal//CWC Bhubaneswar/MC, Goa*











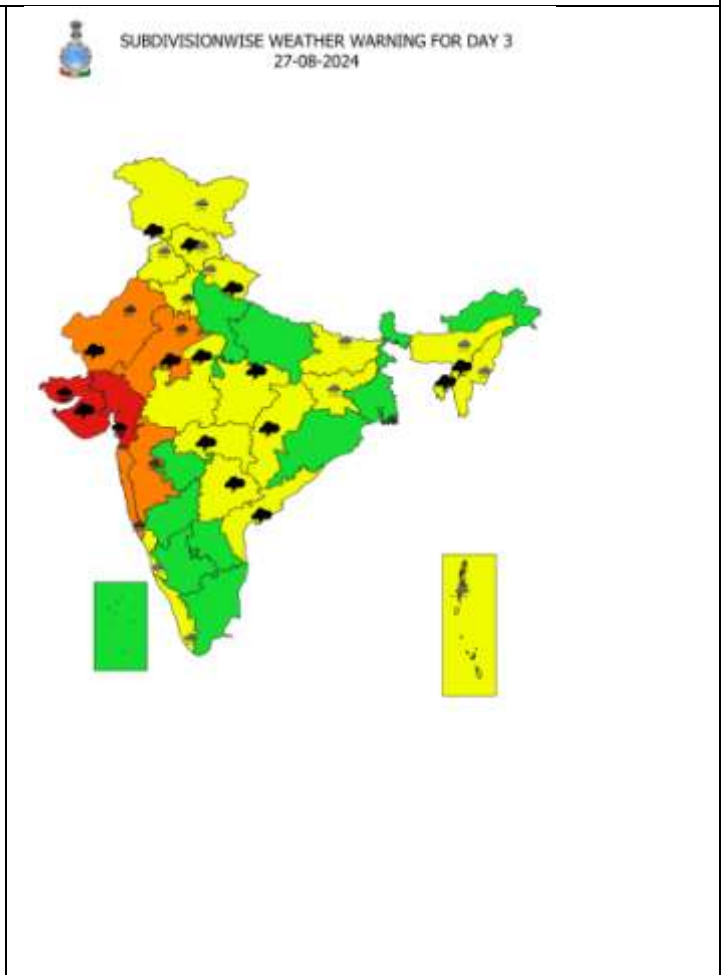
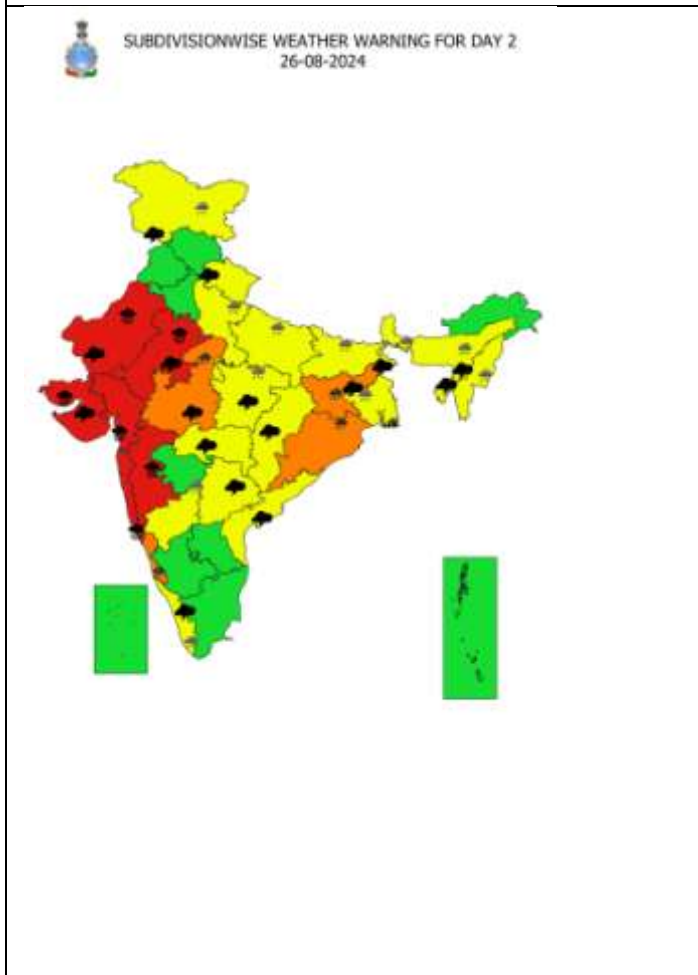
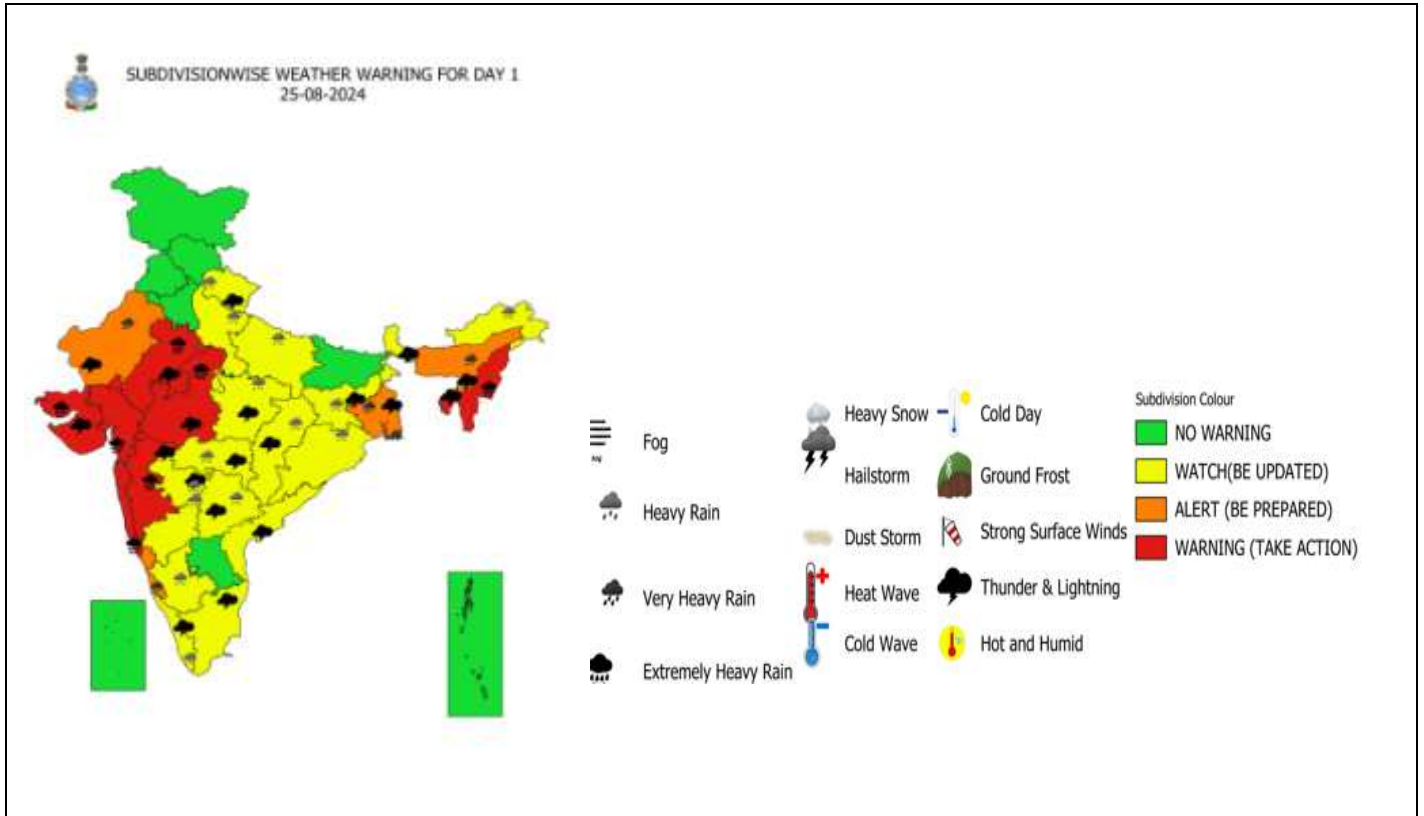
**OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTHWEST MADHYA PRADESH AND NEIGHBOURHOOD BASED ON 0300 UTC (0830 IST) OF 25<sup>TH</sup> AUGUST, 2024.**

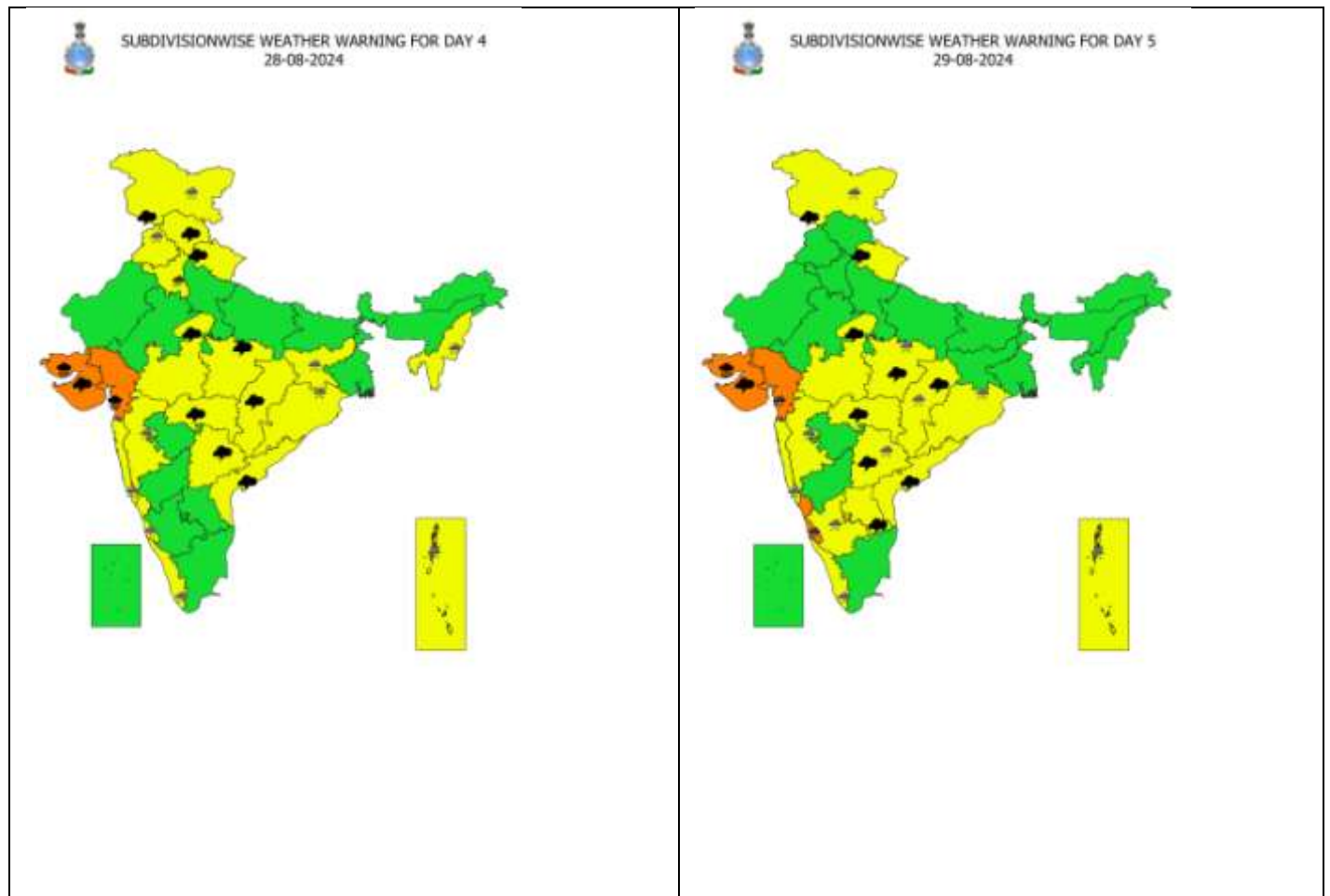


DATE/TIME IN UTC  
IST=UTC + 0530  
L: LOW PRESSURE AREA  
WML: WELL MARKED LOW PRESSURE AREA  
D: DEPRESSION (17-27 KT)  
DD: DEEP DEPRESSION (28-33 KT)  
CS: CYCLONIC STORM (34-47 KT)  
SCS: SEVERE CYCLONIC STORM (48-63KT)  
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
ESCS: EXTREMELY SEVERE CYCLONIC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

# Weather Warning





- 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 26-08-2024 :

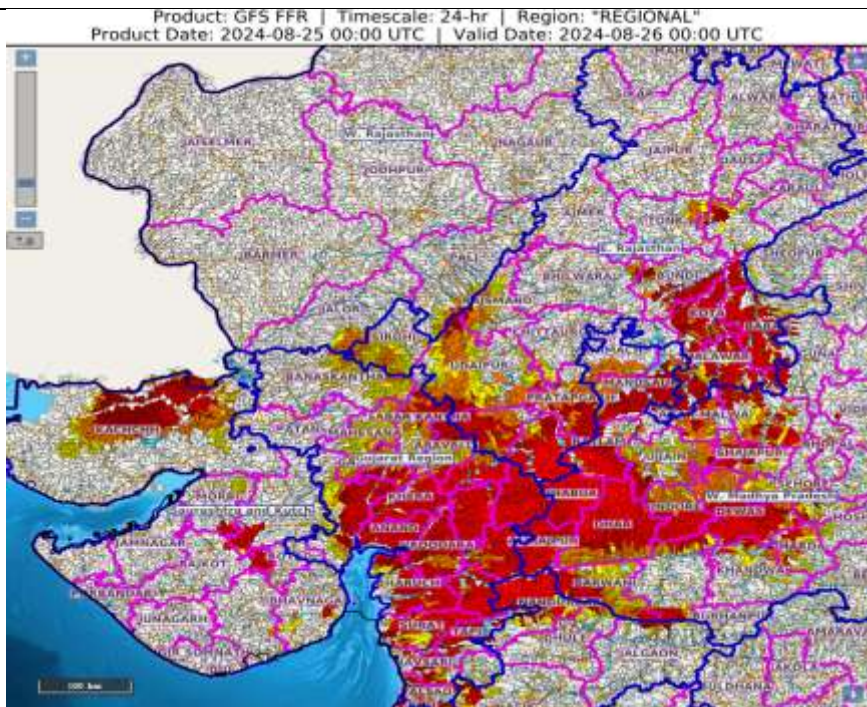
**Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.




**East Rajasthan** - Banswara, Baran, Bundi, Dungarpur, Jhalawar, Kota, Pratapgarh, Rajsmad, Sirohi, Swaimadhopur, Tonk and Udaipur districts.

**West Madhya Pradesh** - Agar-Malwa, Alirajpur, Ashoknagar, Barwani, Dewas, Dhar, Harda, Indore, Jhabua, Khandwa, Khargone, Mandsaur, Nimach, Rajgarh, Ratlam, Sehore, Shajapur and Ujjain districts.

**Gujarat Region** - Dadar & Nagar Haveli, Daman, Ahmadabad, Anand, Aravalli, Banaskantha, Bharuch, Chhota Udepur, Dahod, Dangs, Gandhinagar, Khera, Mahesana, Mahisagar, Narmada, Navsari, Panchmahal, Sabar Kantha, Surat, Tapi, Vadodara and Valsad districts.

**Madhya Maharashtra** -



Flash Flood Risk	
	<b>High Risk (Take Action)</b>
	<b>Moderate Risk (Be Prepared)</b>
	<b>Low Risk (Be Updated)</b>

Jalgaon, Nandurbar and  
Nasik districts.  
**Saurashtra & Kutch** -  
Bhavnagar, Rajkot,  
Surendranagar, Morbi and  
Kachchh 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.

## Fishermen Warning Graphics

