



India Meteorological Department  
(Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 5 (LAND/02/2024)

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FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, MADHYA PRADESH (FAX NO. 0755-2441076)

CHIEF SECRETARY, RAJASHTHAN (FAX NO. 0141-2227114)

CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594)

CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305)

CHIEF SECRETARY, DAMAN & DIU (FAX NO. 0260-2230775)

CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466)

CHIEF SECRETARY, GOA (FAX NO. 0832-2415201)

**Sub: (a) Depression intensified into Deep Depression over East Rajasthan and adjoining West Madhya Pradesh.**

The depression over northwest Madhya Pradesh and adjoining East Rajasthan moved west-southwestwards with a speed of 15 kmph during past 6 hours, intensified into a **Deep Depression** and lay centered at 2330 hours IST of yesterday, the 25<sup>th</sup> August over East Rajasthan and adjoining West Madhya Pradesh near latitude 24.3°N and longitude 74.7°E, about 70 km south-southeast of Chittorgarh (Rajasthan), 90 km southeast of Udaipur (East Rajasthan) and 250 km east of Deesa (Gujarat).

It is likely to continue to move west-southwestwards across south Rajasthan and Gujarat region and reach Saurashtra & Kutch and adjoining areas of Pakistan and northeast Arabian Sea by morning of 29<sup>th</sup> August.

**(b) Low Pressure Area over Bangladesh & adjoining Gangetic West Bengal**

The low pressure area over **south Bangladesh & neighbourhood** lay over Bangladesh and adjoining Gangetic West Bengal at 2330 hours IST of yesterday, the 25<sup>th</sup> August 2024. It is likely to become more marked and move west-northwestwards across Gangetic West Bengal, north Odisha and Jharkhand during next 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 with isolated extremely heavy rainfall during next 12 hours. Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places very likely on 26<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 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 26<sup>th</sup> August.

**West Rajasthan:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places likely during 26<sup>th</sup> and 27<sup>th</sup> August.

**South Rajasthan:** Light to moderate rainfall at most places with isolated heavy to extremely heavy rainfall over **South Rajasthan** likely during 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 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 26<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 likely on 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 likely on 26<sup>th</sup> and heavy to very heavy rainfall at isolated places 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 26<sup>th</sup> August.

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

- Strong surface wind speed reaching 35-45 kmph gusting to 55 kmph is very likely to prevail over South Rajasthan on 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 35-45 kmph gusting to 55 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 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 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 to 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 Madhya Pradesh, South Rajasthan, Gujarat State and North Maharashtra

- 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.

Realised rainfall (in cm) during 0830-1730 hrs IST is placed at Annexure-1.

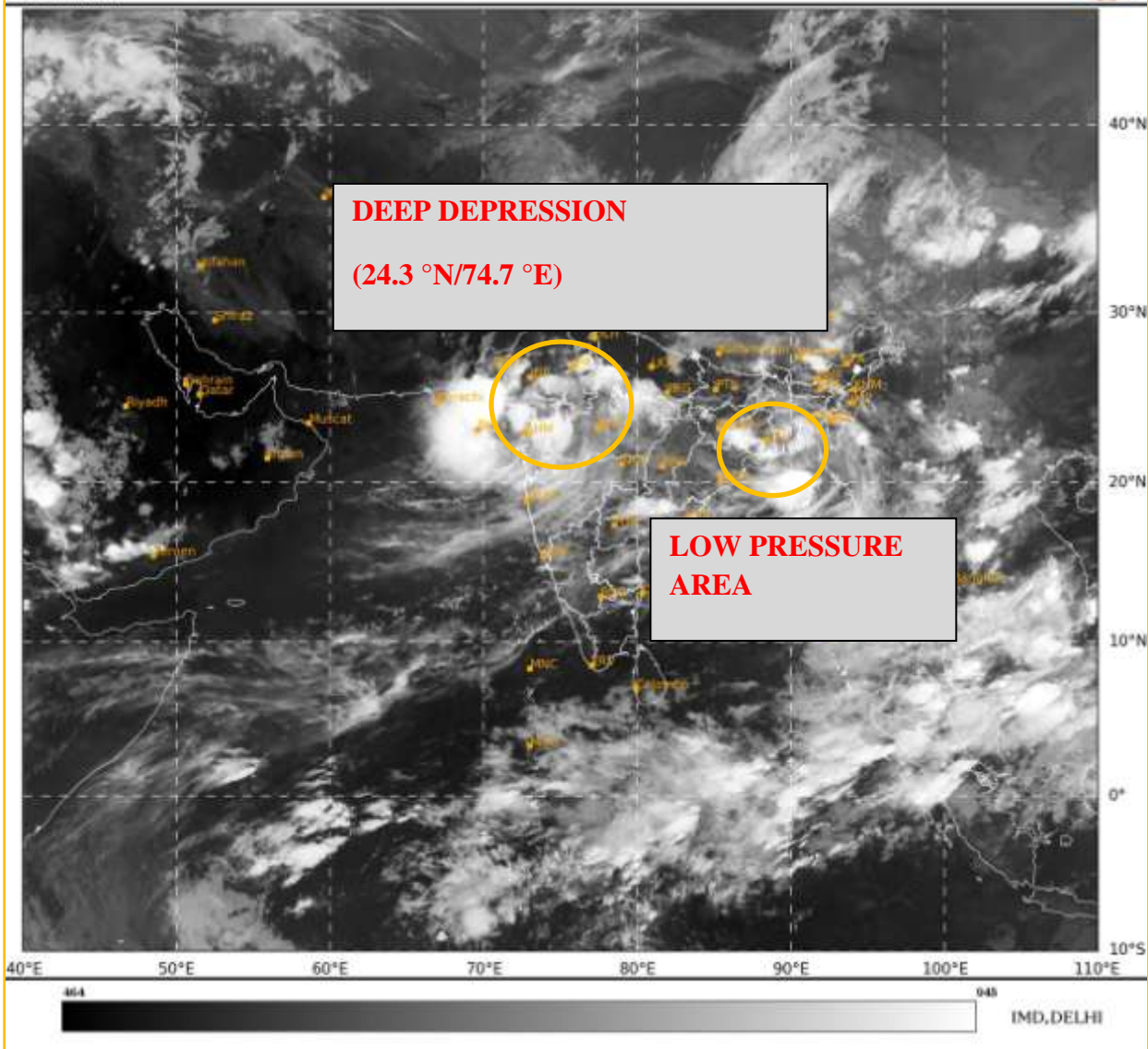
**Next bulletin will be issued at 0830 hours IST of today, the 26<sup>th</sup> August, 2024.**

**(D R Pattanaik)**  
**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*

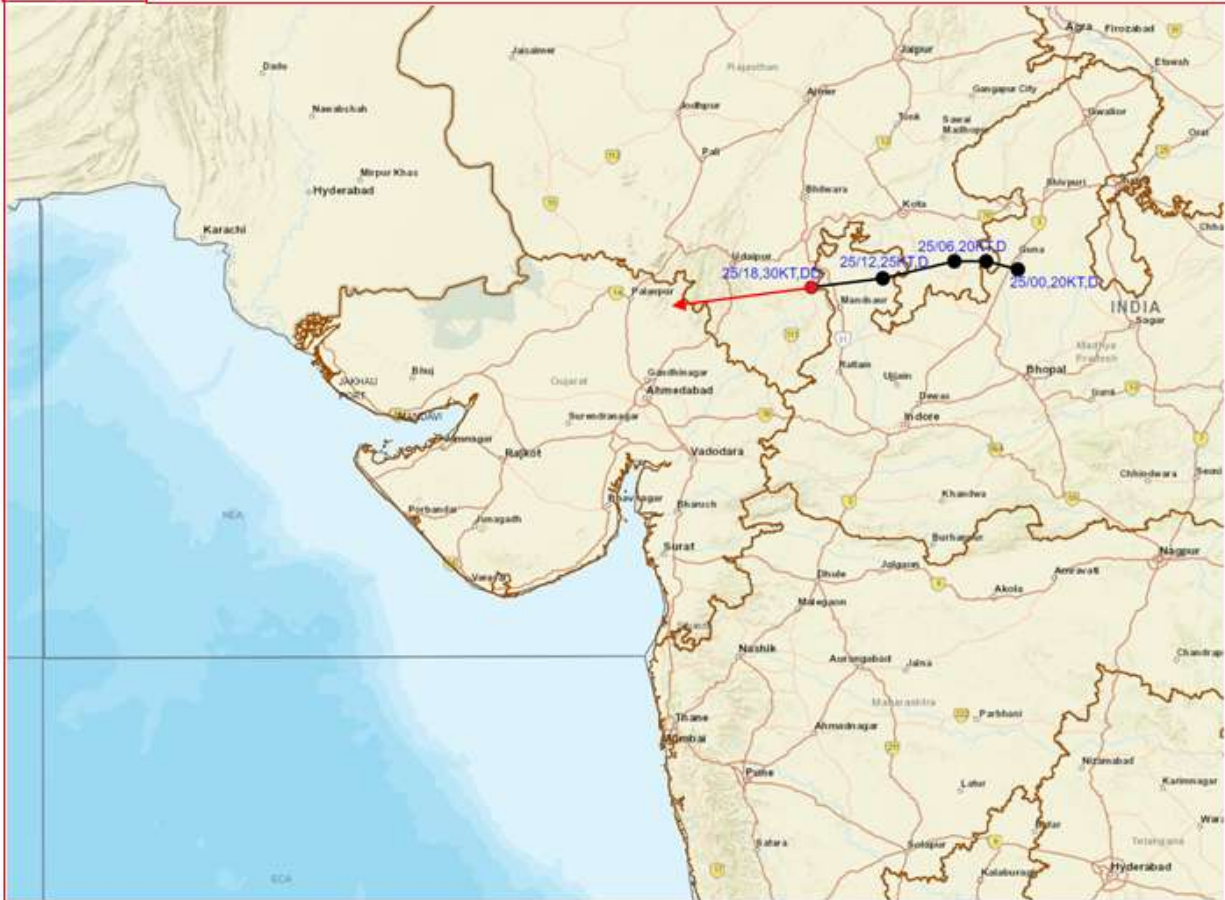
SAT : INSAT-3DR IMG  
IMC\_TIR1 10.8 um  
LIC Mercator

25-08-2024/(1715 to 1742) GMT  
25-08-2024/(2245 to 2312) IST





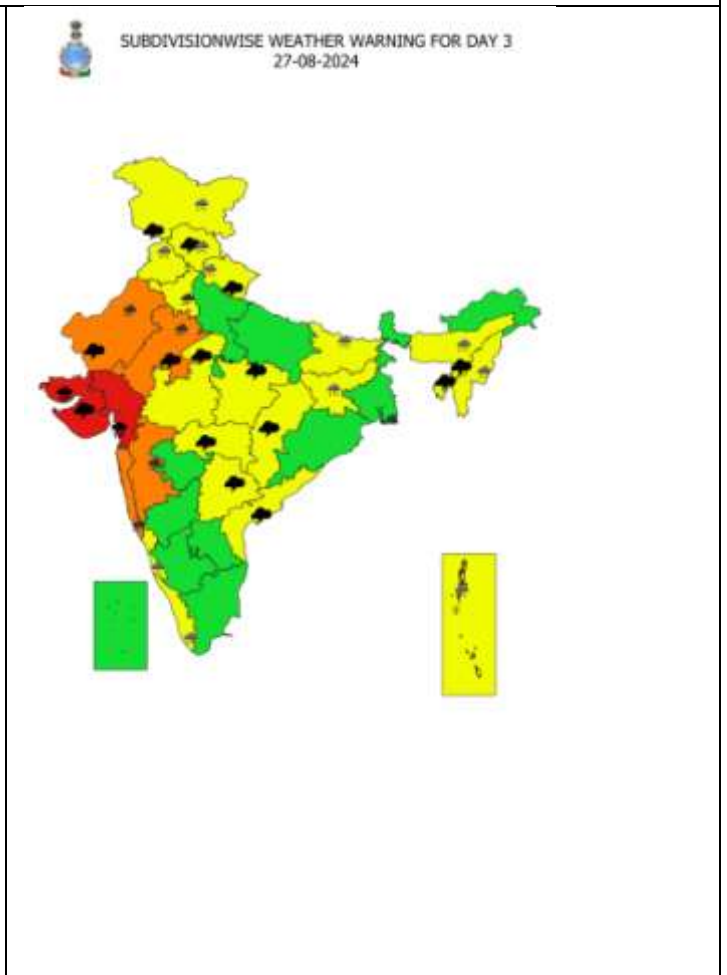
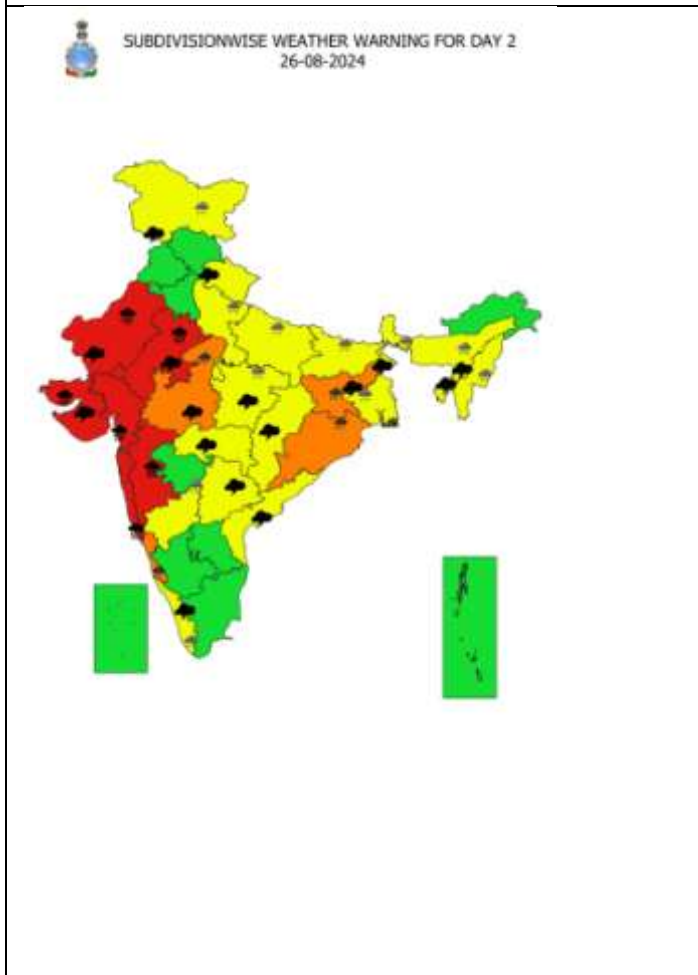
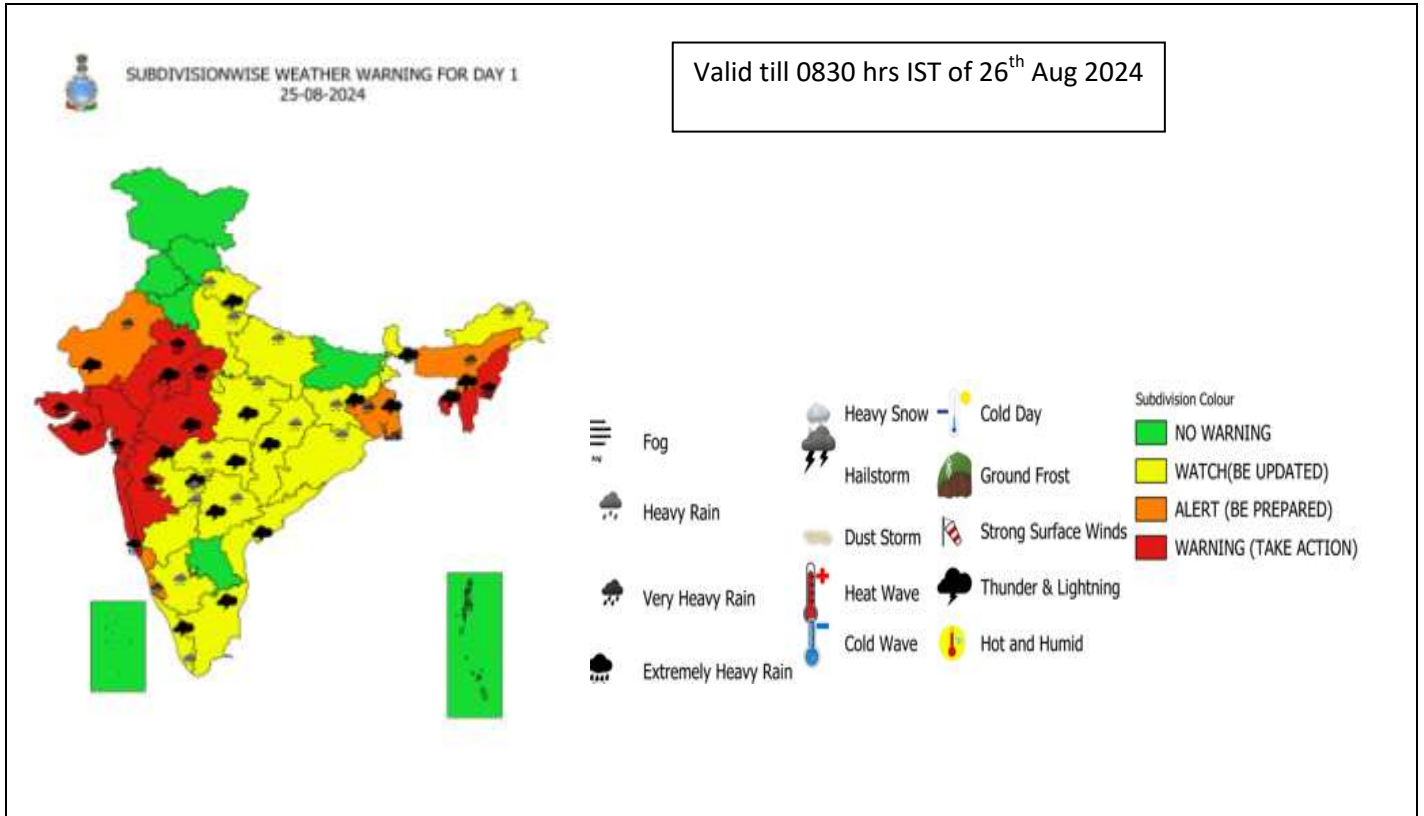
**OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER EAST RAJASTHAN AND ADJOINING WEST MADHYA PRADESH BASED ON 1800 UTC (2330 IST) OF 25<sup>TH</sup> AUGUST, 2024.**

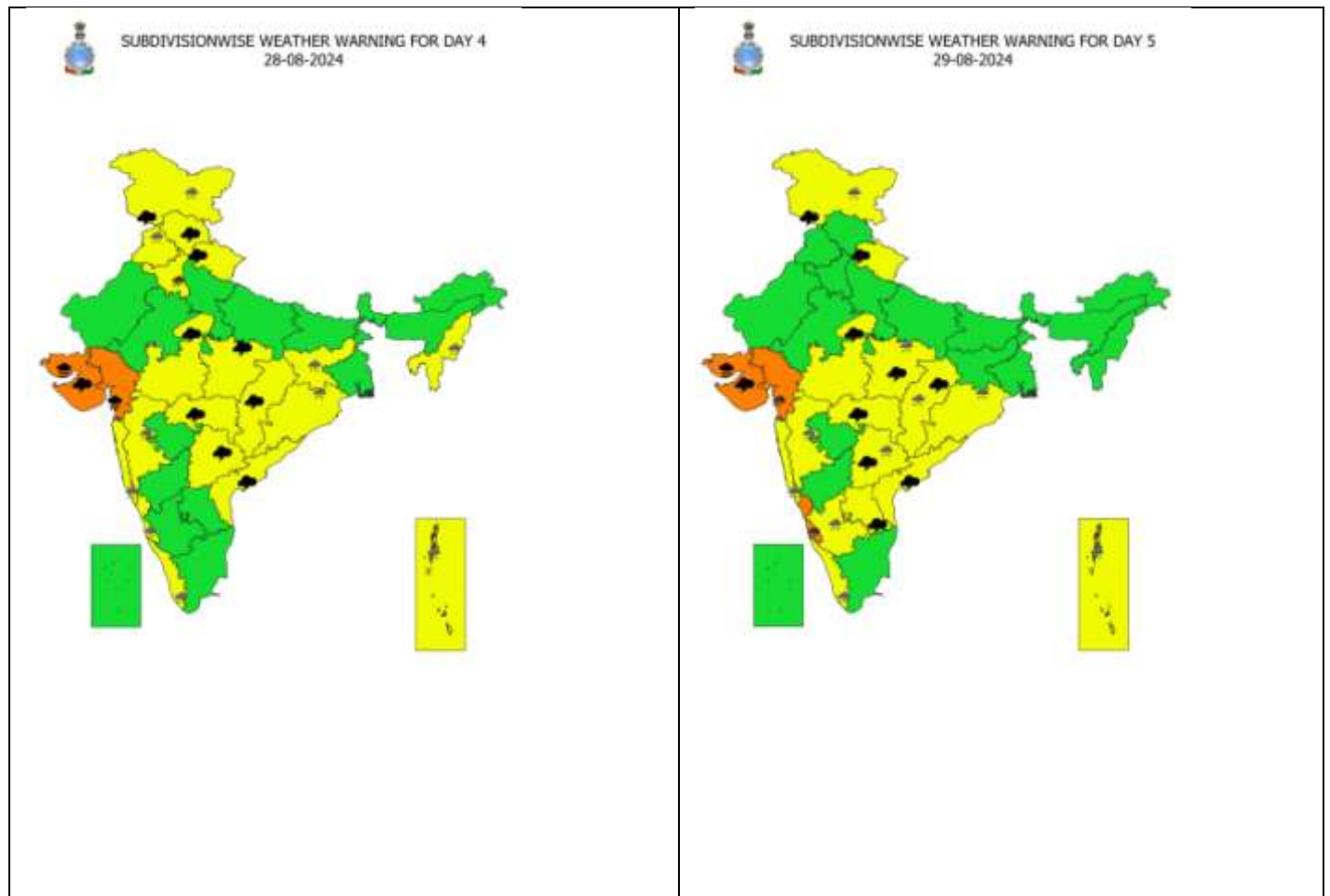


DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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

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

# Weather Warning Graphics

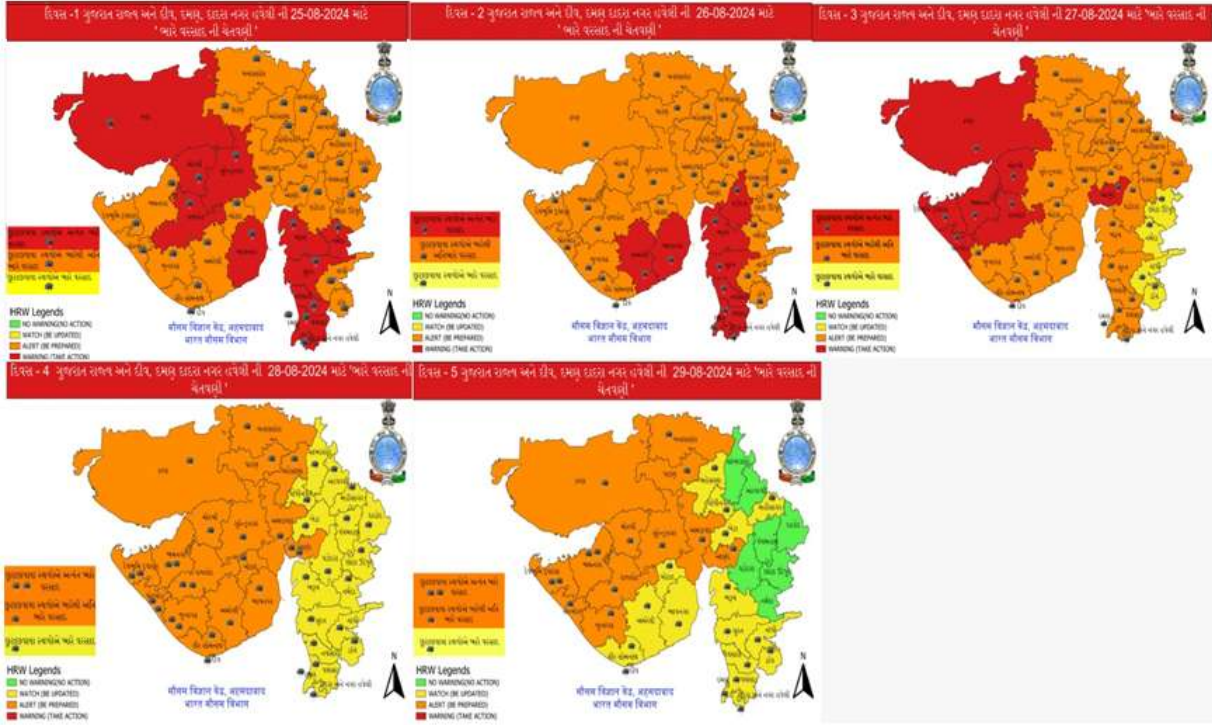




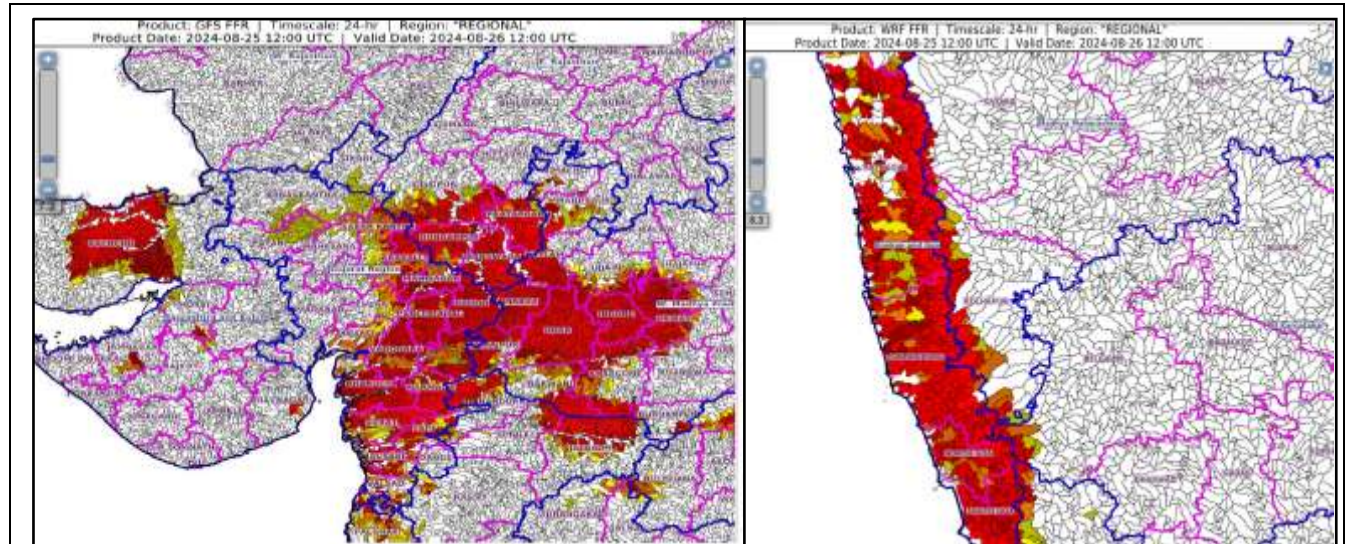
- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.






# District-wise Warning Graphics



## Flash Flood Guidance



### Flash Flood Risk

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

### 24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 26-08-2024 :

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

**East Rajasthan** - Banswara, Chittaurgarh, Dungarpur, Pratapgarh, Sirohi and Udaipur districts.

**West Madhya Pradesh** - Alirajpur, Barwani, Dewas, Dhar, Indore, Jhabua, Khargone, Mandsaur, Ratlam, Shajapur and Ujjain districts.

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

**Madhya Maharashtra** - Dhule and Jalgaon districts.

**Saurashtra & Kutch** - Bhavnagar, Jamnagar, 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.

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

**Konkan & Goa** - North Goa, South Goa, Ratnagiri and Sindhudurg 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**



	Squally WX with wind speed 35-45 kmph gusting to 55 kmph
	Squally WX with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind with speed 45-55 kmph gusting to 65 kmph
	Squally wind with speed 55-65 kmph gusting to 75 kmph

**Fishermen are advised not to venture into the marked areas.**

**Significant amount of Cumulative realised rainfall (in cm) during 0830 -1730 hours  
IST of 25th August**

**Saurashtra & Kutch:** Rajkot 17, Bhaunagar 3, Surendranagar 2;

**East Rajasthan:** Bhilwara 10, Beawar 7, Chittorgarh 8, Ajmer 3, Udaipur 2;

**West Madhya Pradesh:** Ujjain 3;

**East Madhya Pradesh:** Nowgong 2;

**State Government Data:**

**Gujarat state:**

**Navsari 24**, Narmada 17, Valsad 13, Rajkot 14, Dangs 13, Surendranagar 13, Chjotaudepur 13, Tapi 11, Morbi 12, Vadodara 11, Surat 8, Bharuch 7, Dahod 6,

**East Rajasthan**

Kareda(Dist. Bhilwara) 10, Sahada(Dist. Bhilwara) 8, Nimbahera (Dist. Chittorgarh) 8, Rashmi(Dist. Chittorgarh) 8, Jaitaran (Dist. Beawar) 7, Asind (Dist. Bhilwara) 7, Bhopalsagar(Dist. Chittorgarh) 7, Kapasan ( Dist. Chittorgarh) 7