



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

**NATIONAL BULLETIN NO. 9 (LAND/02/2024)**

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**DATED: 26.08.2024**

**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, JHARKHAND (FAX NO. 0651-2400255)**

**CHIEF SECRETARY, BIHAR (FAX NO. 0612-2217085)**

**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) Deep Depression over north Gujarat and adjoining southeast Rajasthan**

The deep depression over East Rajasthan moved nearly westwards with a speed of 10 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 26<sup>th</sup> August over north Gujarat and adjoining southeast Rajasthan near latitude 23.8°N and longitude 73.0 °E, about 90 km east-southeast of Deesa (Gujarat), 110 km northeast of Ahmedabad (Gujarat), 180 km northeast of Surendranagar (Gujarat) and 330 km east-northeast of Bhuj (Gujarat).

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

**(b) Well Marked Low Pressure Area over Gangetic West Bengal and adjoining Jharkhand**

The well marked low pressure area over Gangetic West Bengal moved west-northwestwards and lay over Gangetic West Bengal and adjoining Jharkhand at 1730 hours IST of today, the 26<sup>th</sup> August 2024. It is likely to move west-northwestwards across Gangetic West Bengal, Jharkhand and adjoining north Odisha during next 2 days.

## **Warnings:**

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

**Madhya Pradesh:** 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.

**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. Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely on 27<sup>th</sup> August.

### **Gujarat State:**

**(a) 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 27<sup>th</sup> August and heavy rainfall at isolated places on 28<sup>th</sup> August.

**(b) 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 on 26<sup>th</sup> and 27<sup>th</sup> August; heavy to very heavy rainfall at isolated places is likely on 28<sup>th</sup> & 29<sup>th</sup> August and heavy rainfall at isolated places on 30<sup>th</sup> August.

**(c) Central parts of Gujarat region and northern districts of Saurashtra:** Light to moderate rainfall at most places with **extremely heavy to exceptionally heavy rainfall at isolated places is likely over central parts of Gujarat region and northern districts of Saurashtra region** on 26<sup>th</sup> August.

**Konkan & Goa:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places is likely on 26<sup>th</sup> and heavy rainfall on 27<sup>th</sup> & 28<sup>th</sup> August.

**Madhya Maharashtra:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places is likely on 26<sup>th</sup> and heavy rainfall at isolated places is likely on 27<sup>th</sup> & 28<sup>th</sup> August.

**Odisha:** Light to moderate rainfall at most places with heavy rainfall at isolated places is likely during 26<sup>th</sup> to 28<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 26<sup>th</sup> August and heavy rainfall at isolated places is likely on 27<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 and heavy rainfall at isolated places is likely on 27<sup>th</sup> & 28<sup>th</sup> August.

**Bihar:** Light to moderate rainfall at many places with heavy rainfall at isolated places is likely during 26<sup>th</sup> to 28<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 on 26<sup>th</sup> August.

- Strong surface wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over South Rajasthan on 26<sup>th</sup> and 27<sup>th</sup> August.
- Strong surface wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Gujarat state, along and off Gujarat & adjoining Pakistan and north Maharashtra coasts and northeast Arabian Sea during 26<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> and 30<sup>th</sup> August. Squally wind speed reaching 40-50 kmph gusting to 60 kmph would prevail over interior districts 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 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)

**(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 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

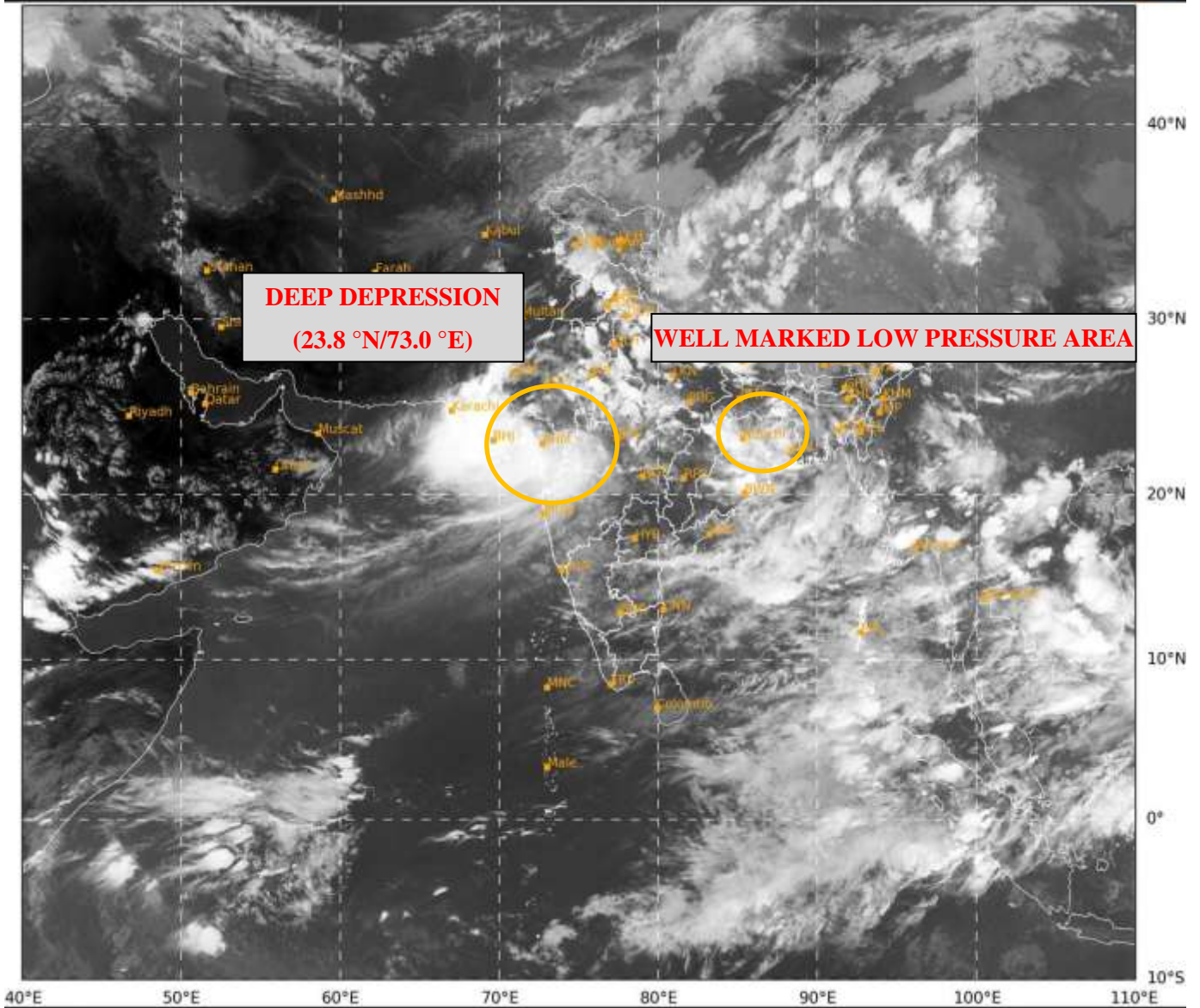
- Make provision for draining out excess water from crop fields to avoid water stagnation in Madhya Pradesh, South Rajasthan, Gujarat State and North Maharashtra.
- Provide mechanical support to horticultural crops and staking to vegetables.

Significant Rainfall (in cm) recorded during past 24 hours till 0830 hours IST of today, the 26.08.2024 is placed at Annexure-1.

**Next bulletin will be issued at 0230 hours IST of tomorrow, the 27<sup>th</sup> August, 2024.**

**(Dr. 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/MC, Ranchi*



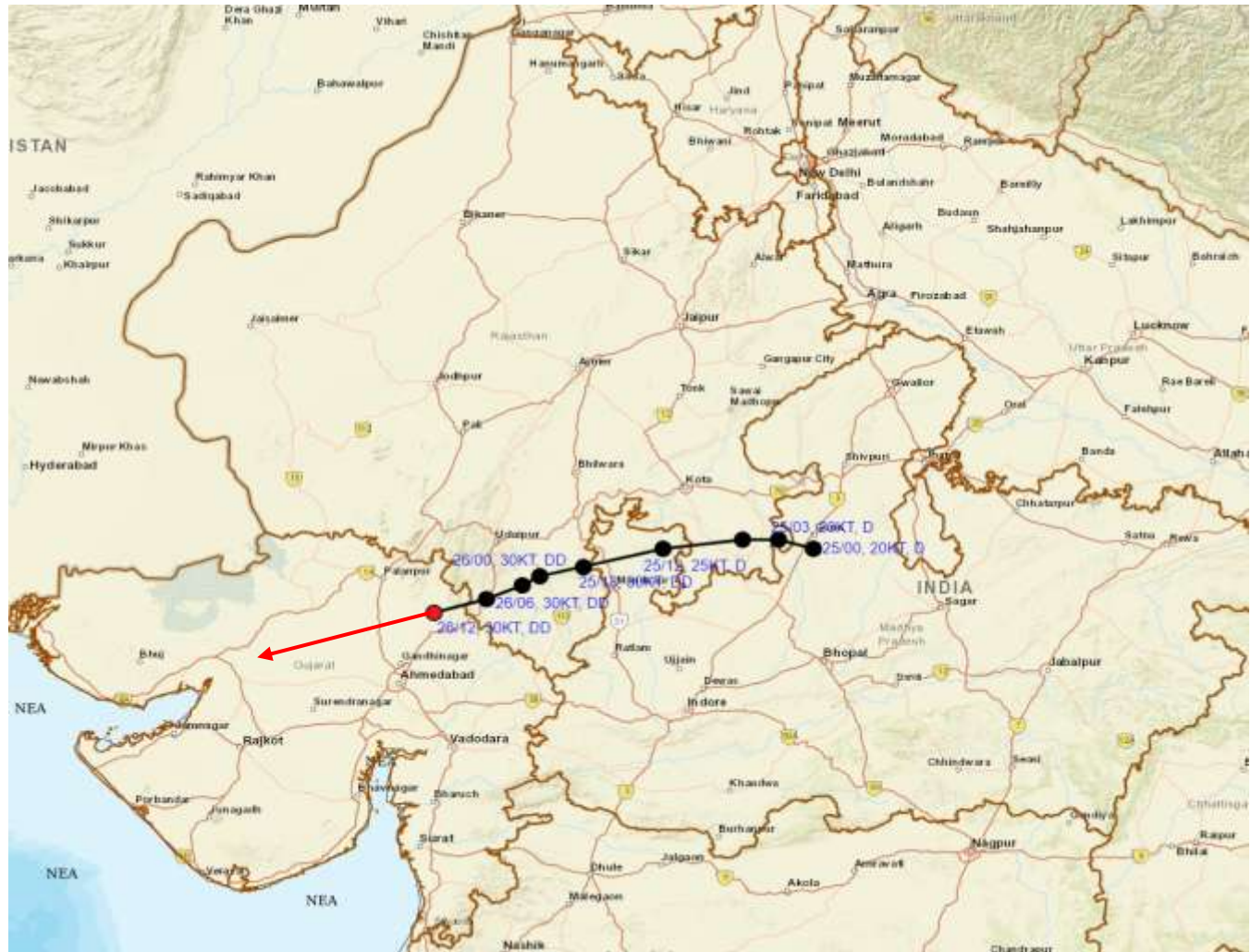
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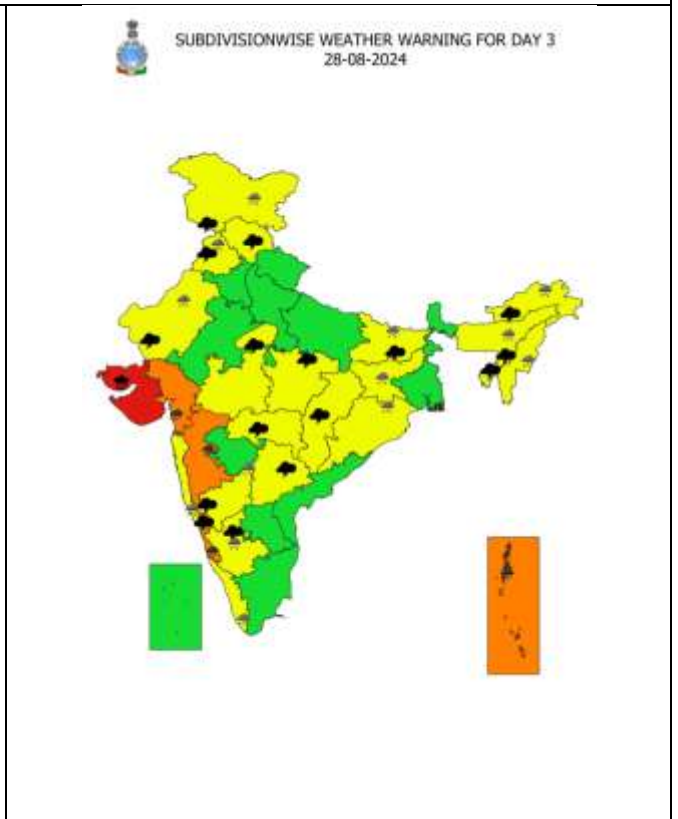
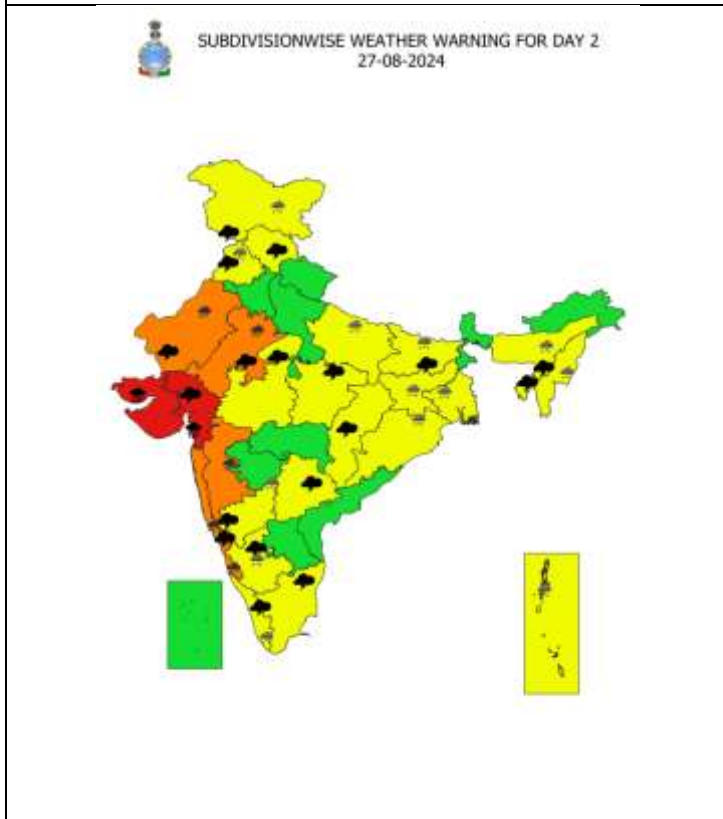
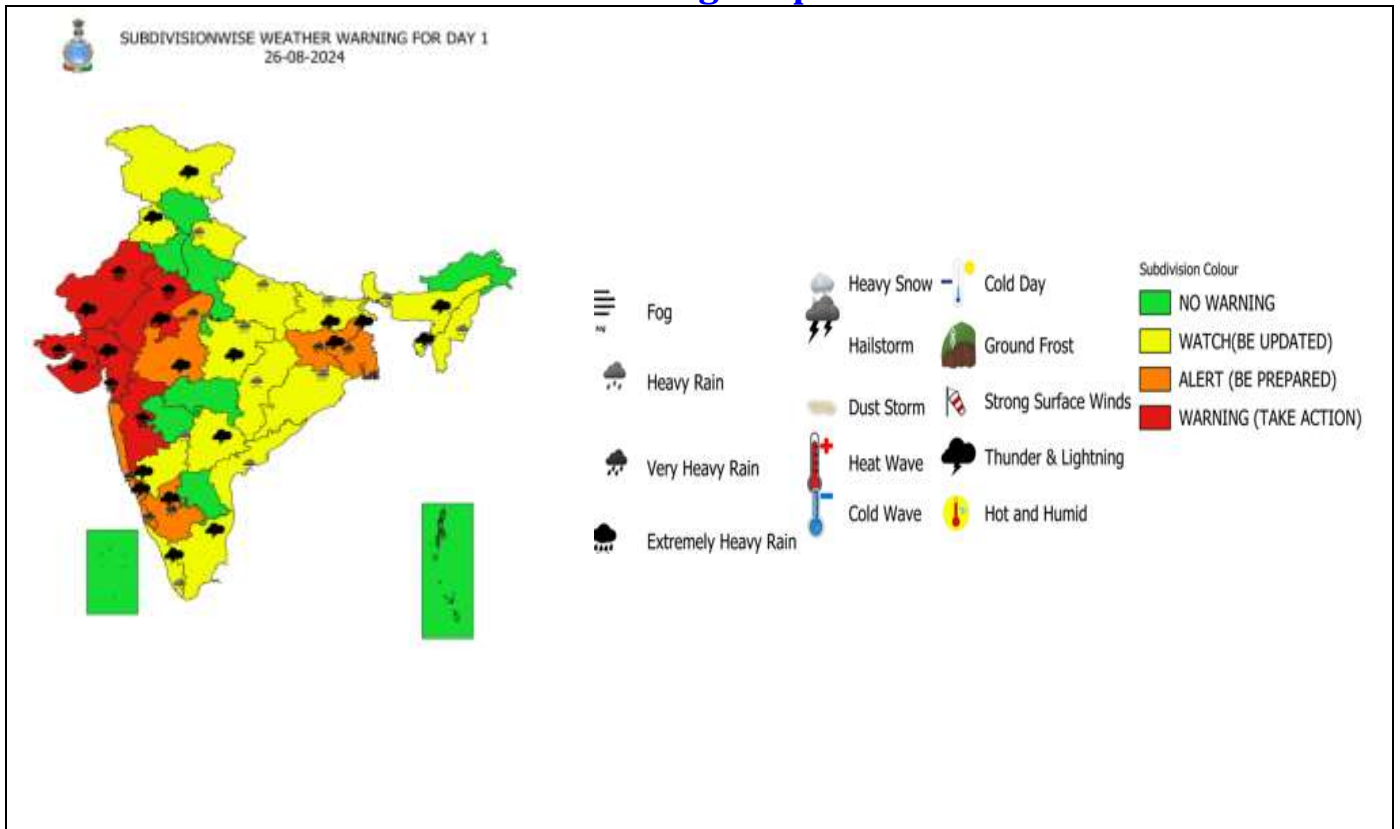
**OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER NORTH GUJARAT AND ADJOINING SOUTHEAST RAJASTHAN BASED ON 1200 UTC (1730 IST) OF 26<sup>TH</sup> AUGUST, 2024.**

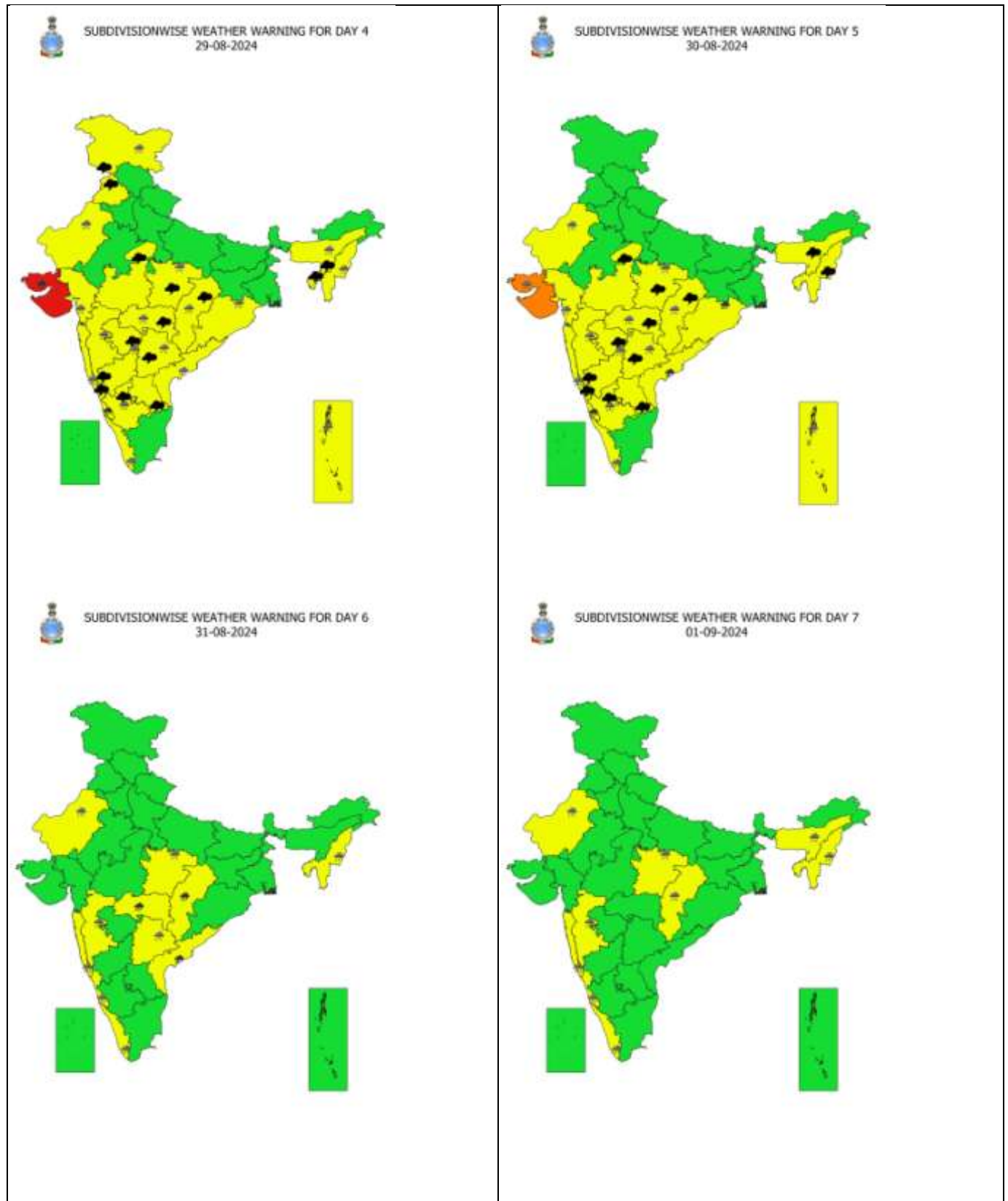


DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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

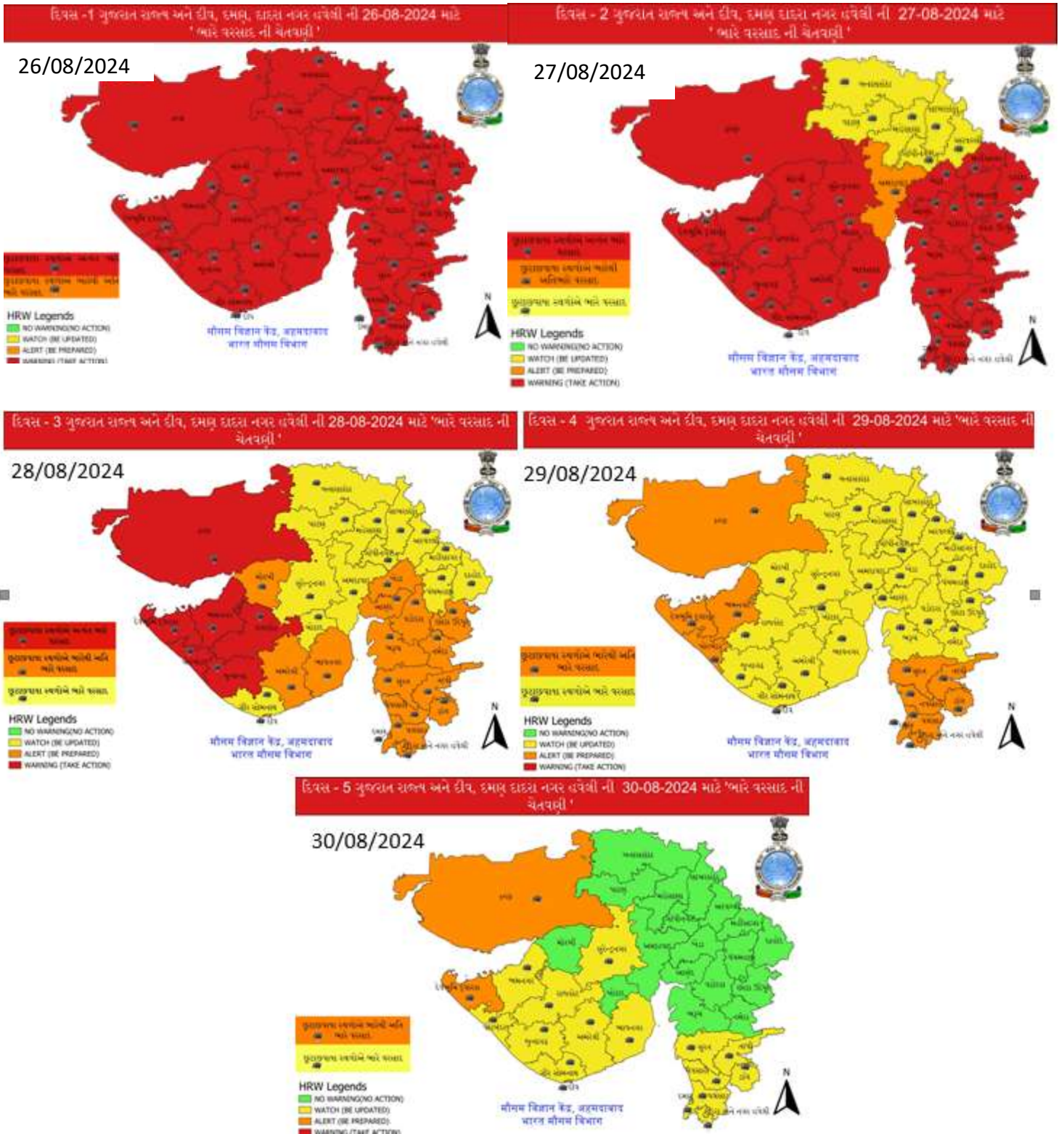


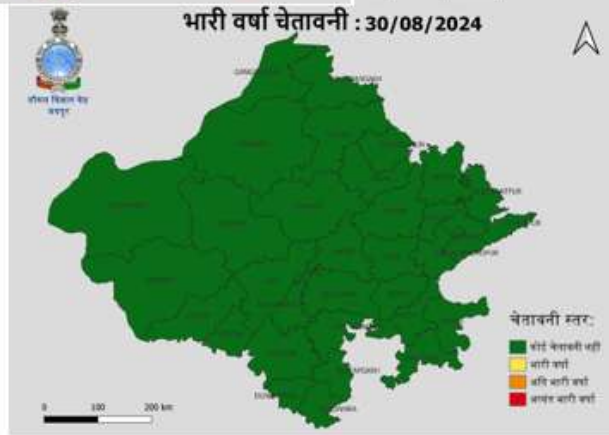
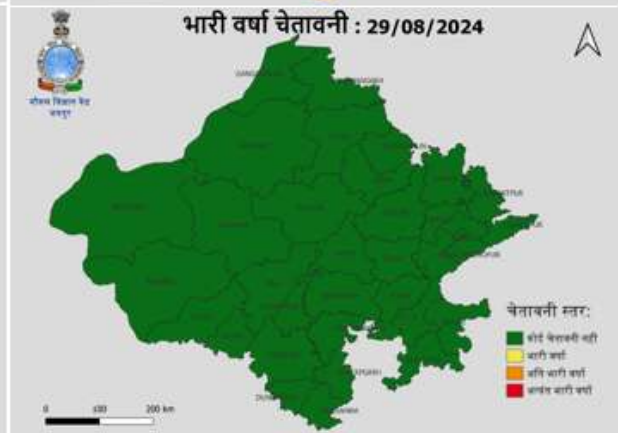
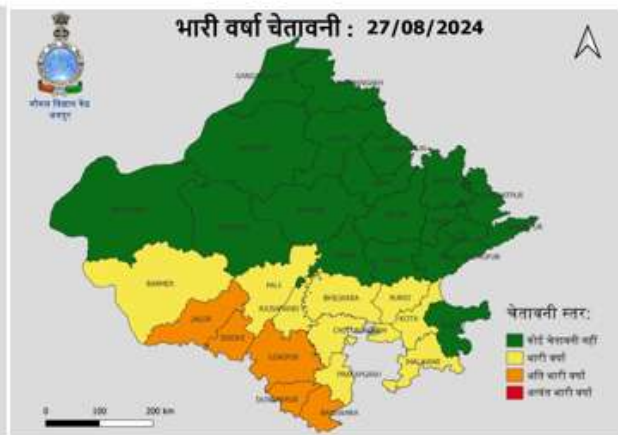
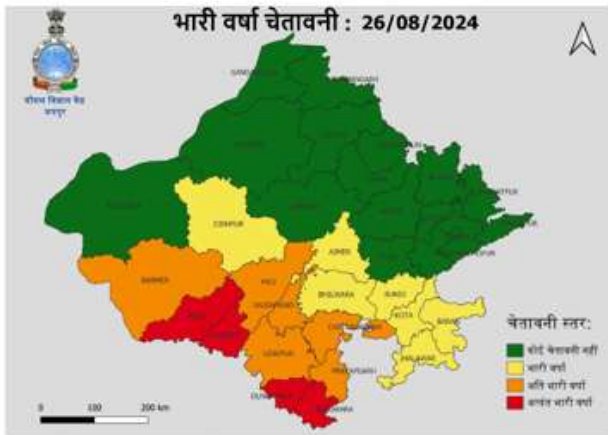


- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

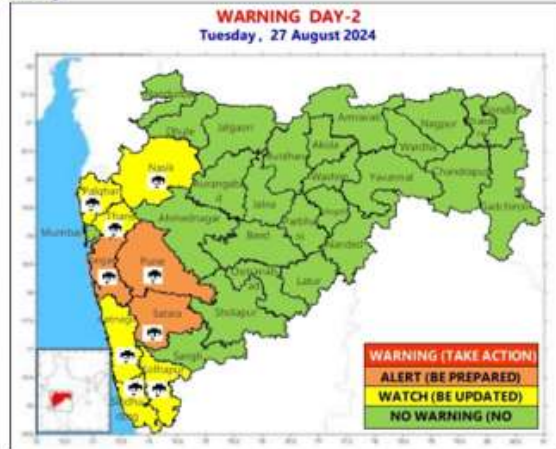
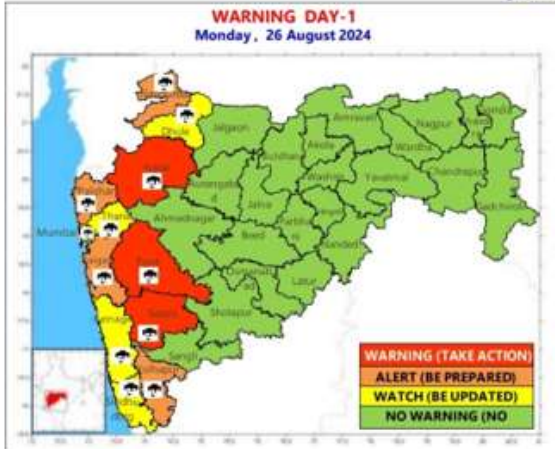


# District wise Warning Graphics

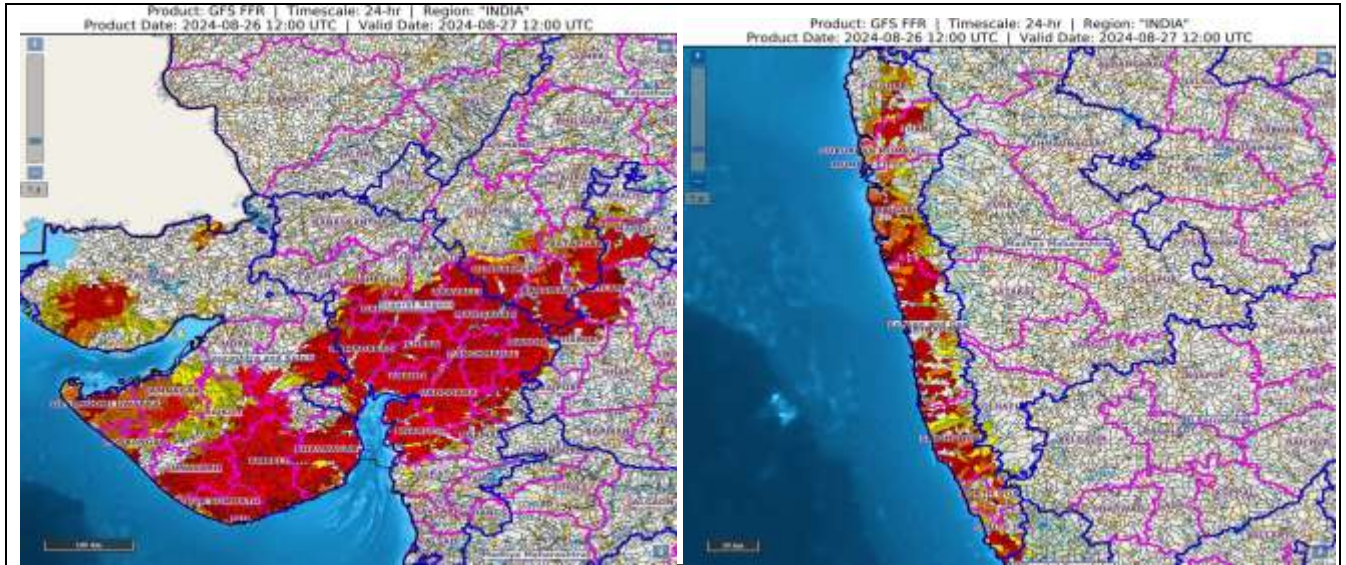




(WARNING)



## Flash Flood Guidance



### Flash Flood Risk

**High Risk (Take Action)**

**Moderate Risk (Be Prepared)**

**Low Risk (Be Updated)**

### 24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 27-08-2024 :

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

**East Rajasthan** - Banswara, Dungarpur, Pratapgarh and Udaipur districts. West Madhya Pradesh - Alirajpur, Jhabua, Mandasaur, Nimach and Ratlam districts.

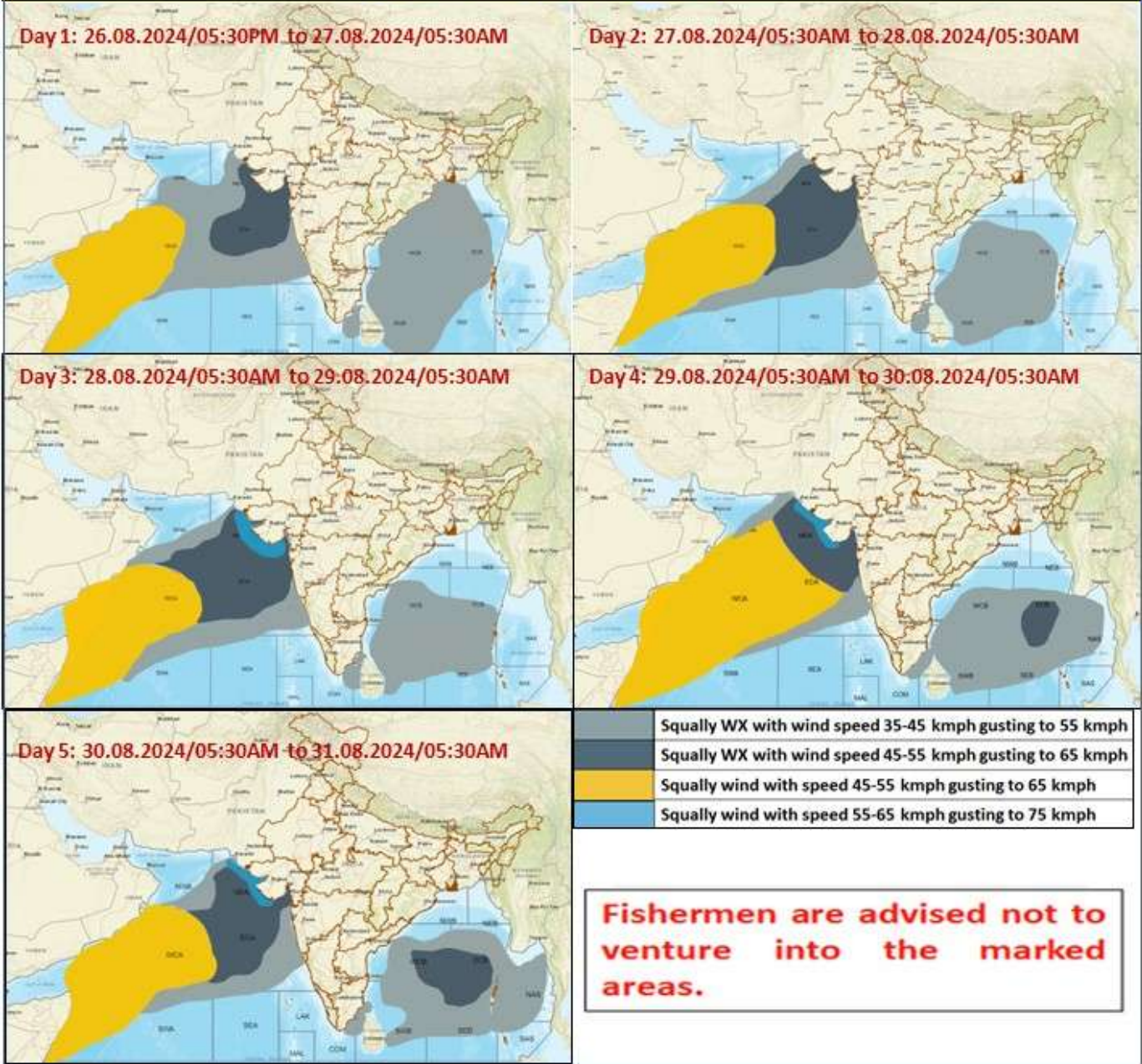
**Gujarat Region** - Ahmadabad, Anand, Aravalli, Bharuch, Chhota Udepur, Dahod, Gandhinagar, Khera, Mahesana, Mahisagar, Narmada, Panchmahal, Sabar Kantha and Vadodara districts.

**Saurashtra & Kutch** - Amreli, Bhavnagar, Botad, Devbhoomi Dwarka, Diu, Gir Somnath, Jamnagar, Junagarh, Porbandar, Rajkot, Surendranagar, Morbi and Kachchh districts.

**Konkan & Goa** - North Goa, South Goa, Mumbai City, Palghar, Raigarh, Ratnagiri, Sindhudurg, Suburban Mumbai and Thane districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.

**Fishermen Warning Graphics**



## ANNEXURE I

### **Significant Rainfall recorded during past 12 hours till 0830 hours IST to 1730 hours IST of today 26.08.2024 (in cm):**

**Gujarat Region:** Panchmahal-26; Barodara-24; Ananad-22; Kehda-17; Katch-14; Dahoda-13; Ahamdabad-11; Dangs-10; Mahisagar and Jamnagar-9 each; Gandhinagar-7; Bulshar-3;

**Saurashtra & Kutch:** Bhuj & Rajkot-6 each; New Kandla-4;

East Rajasthan: Alwar-3; Ajmer and Udaipur-1 each;

**Sub-Himalayan West Bengal & Sikkim:** Gangtok-4;

**Gangetic West Bengal:** Asansol-4; Midanapur-5;

**Odisha:** Jagatsinghpur-8; Paradip-4.