



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

NATIONAL BULLETIN NO. 11 (LAND/02/2024)

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Sub: (a) Deep Depression over north Gujarat

The deep depression over north Gujarat moved slowly westwards with a speed of 4 kmph during past 6 hours and lay centered at 0530 hours IST of today, the 27th August over the same region near latitude 23.8°N and longitude 72.2 °E, close to Patan, about 40 km south of Deesa (Gujarat), 90 km north-northwest of Ahmedabad (Gujarat), 130 km north-northeast of Surendranagar (Gujarat) and 250 km east-northeast of Bhuj (Gujarat).

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

(b) Low Pressure Area over Jharkhand and Neighbourhood

The well marked low pressure area over Jharkhand and Neighbourhood moved west-northwestwards and lay as a low pressure area over the same region at 0530 hours IST of today, the 27th August 2024. It is likely to move west-northwestwards across Jharkhand, and north Chhattisgarh & adjoining southeast Uttar Pradesh and weaken gradually further during next 24 hours.

Warnings:

(i) Rainfall Warning:

Gujarat State:

(a) North Gujarat region: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is very likely over North Gujarat on 27th August and heavy rainfall at isolated places on 28th August.

(b) South Gujarat Region and 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 27th & 28th heavy to very heavy rainfall at isolated places is likely on 29th August and heavy rainfall at isolated places on 30th August.

West Madhya Pradesh: Light to moderate rainfall at most places with heavy rainfall at isolated places over West Madhya Pradesh is very likely on 27th August.

South Rajasthan: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places over South Rajasthan is very likely on 27th August.

Konkan & Goa: Light to moderate rainfall at most places with isolated heavy rainfall on 27th & 28th August.

Madhya Maharashtra: Light to moderate rainfall at most places with heavy rainfall at isolated places is likely on 27th & 28th August.

Odisha: Light to moderate rainfall at most places with heavy rainfall at isolated places is likely during 27th to 28th August.

Gangetic West Bengal: Light to moderate rainfall at most places with heavy rainfall at isolated places is likely on 27th August.

Jharkhand: Light to moderate rainfall at many places with heavy rainfall at isolated places is likely on 27th & 28th August.

Bihar: Light to moderate rainfall at many places with heavy rainfall at isolated places is likely during 27th to 28th August.

(ii) Wind warning:

- Strong surface wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over the districts of North Gujarat region on 27th August; Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely over the districts of South Gujarat Region and Saurashtra & Kutch during 27th-29th August.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely to prevail along & off Gujarat coasts & adjoining Pakistan coasts and northeast and adjoining eastcentral Arabian Sea during 27th-30th August.
- Strong surface wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over South Rajasthan on 27th August.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail along and off north Maharashtra coasts on 27- 29th 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 30th 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 30th 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.
- 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.

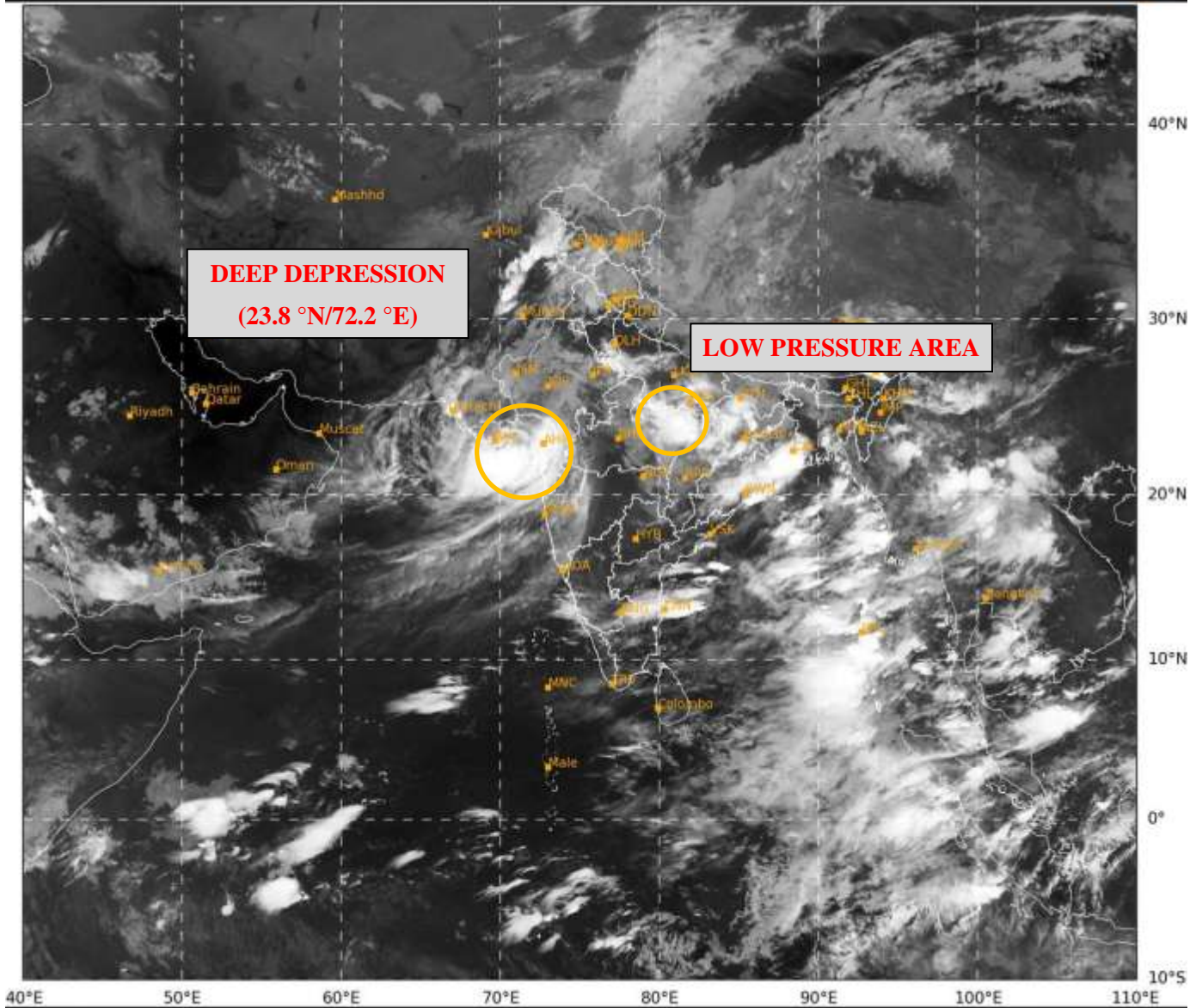
Significant Rainfall (in cm) recorded during 0830 hrs IST of yesterday, the 26th August to 0530 hrs IST of today, 27th August, 2024 is placed at Annexure-1.

Next bulletin will be issued at 1130 hours IST of today, the 27th August, 2024.

(Dr. Shashi Kant)

Scientist D, 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



DEEP DEPRESSION
(23.8 °N/72.2 °E)

LOW PRESSURE AREA











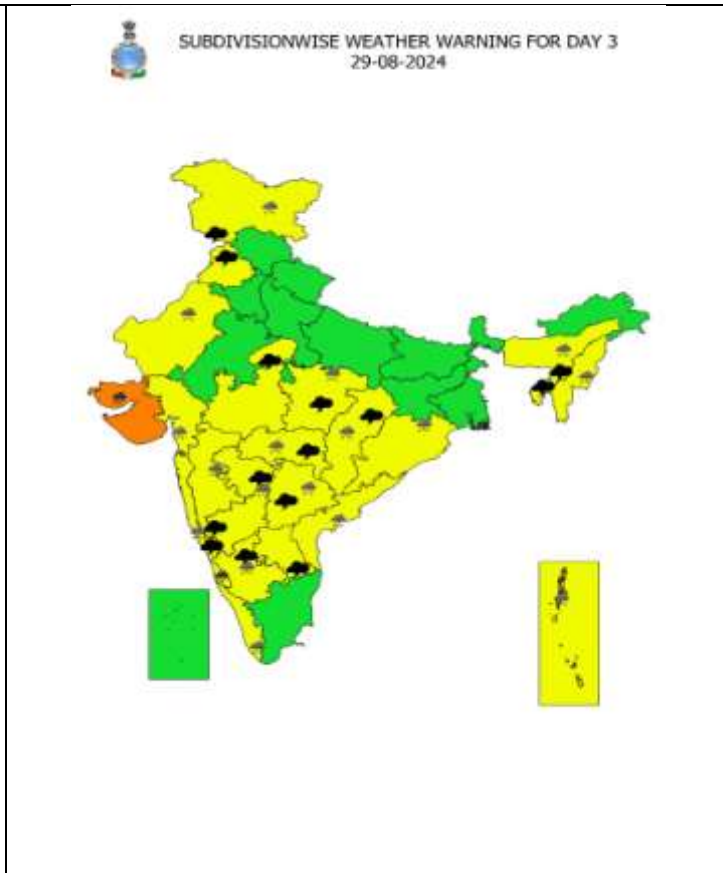
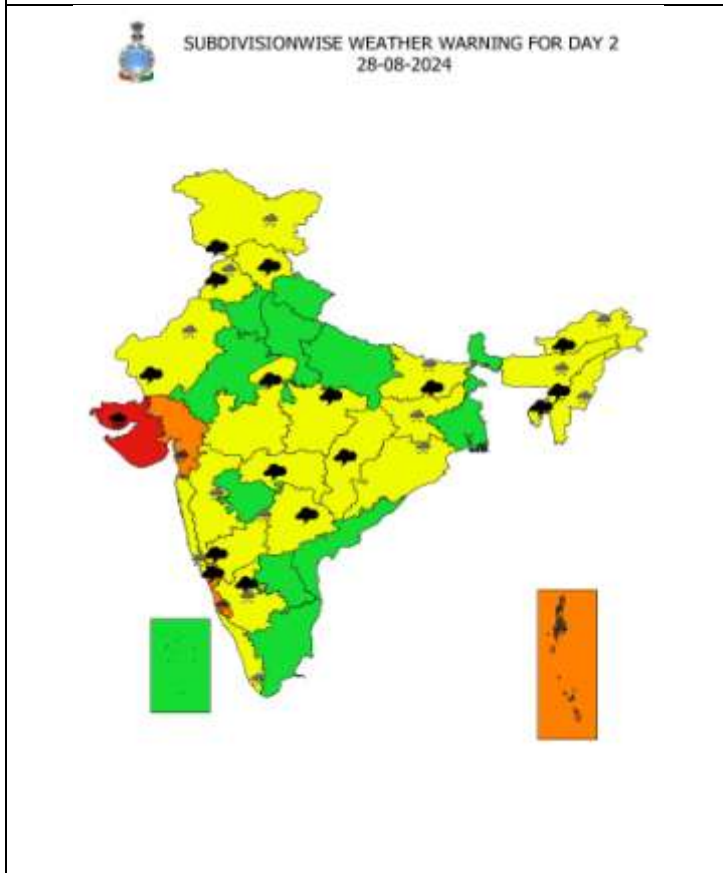
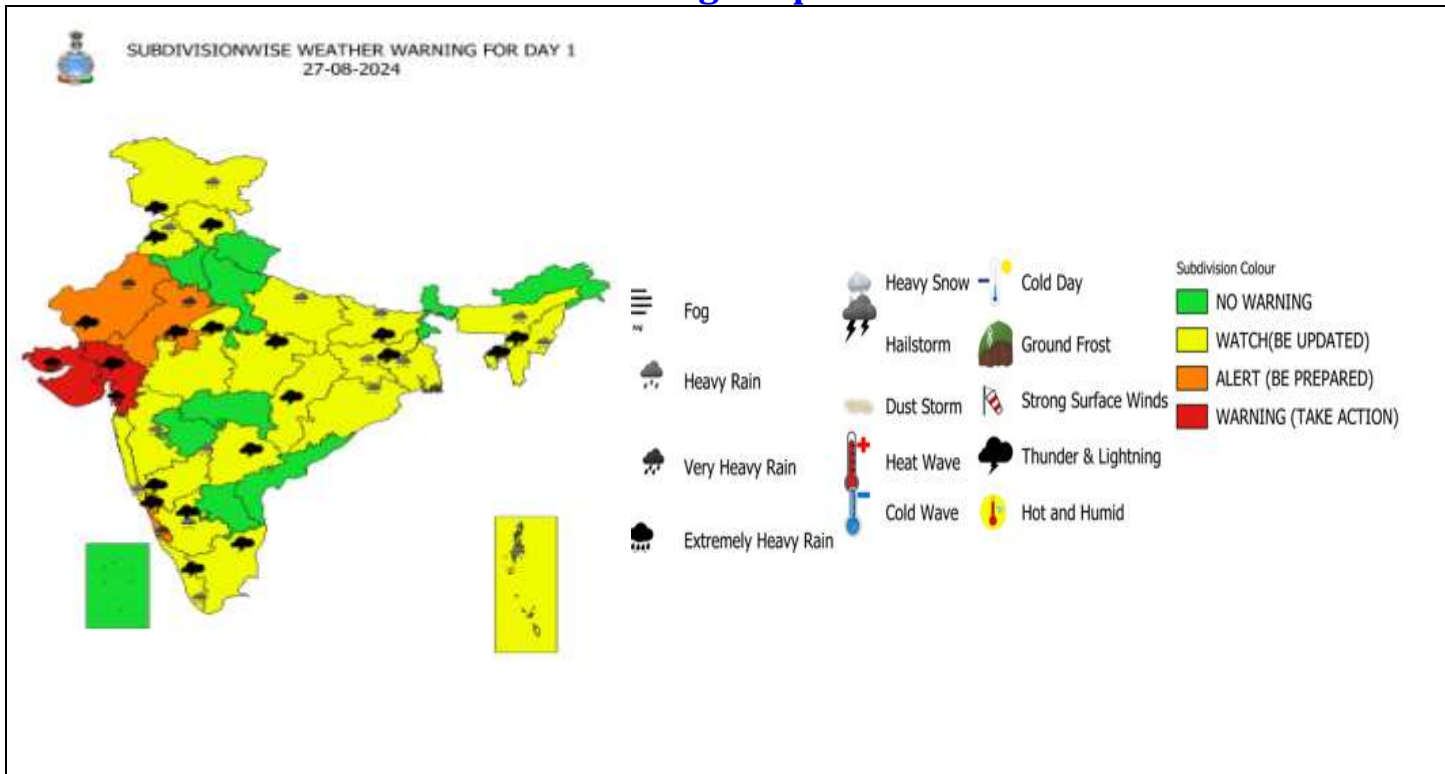
OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER NORTH GUJARAT BASED ON 0000 UTC (0530 IST) OF 27TH AUGUST, 2024.

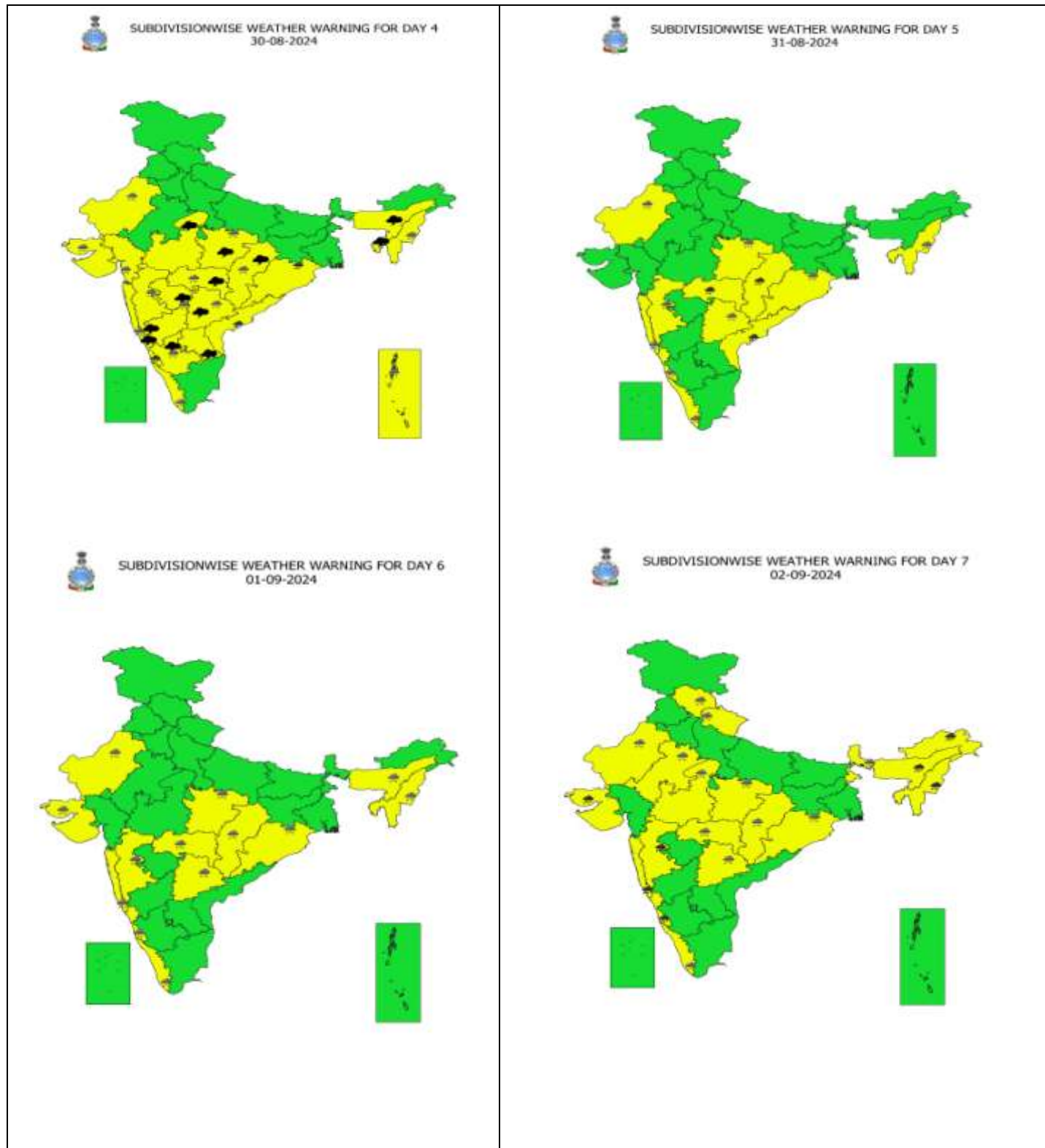


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119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



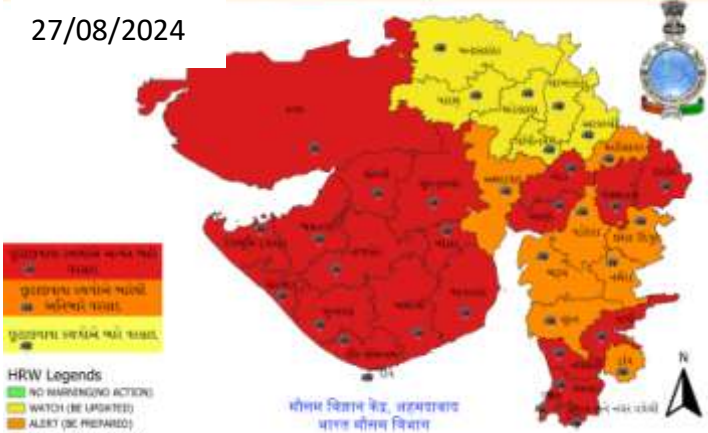


- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

District wise Warning Graphics

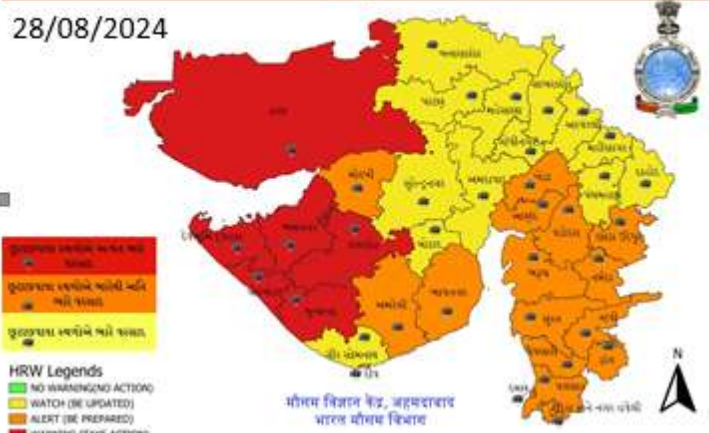
દિવસ - 2 જુજ્જવત સત્ત્વ અને દીવ, દમણ દાદરા નજર લલેલો ની 27-08-2024 માટે 'ભારે વરસાદ ની લેનવલોી'

27/08/2024



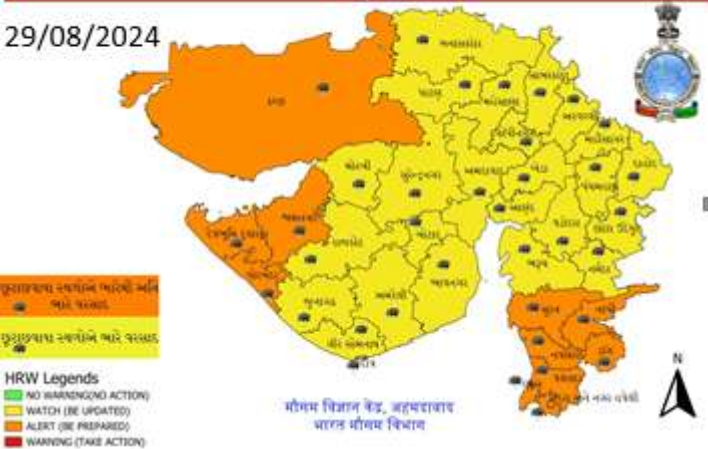
દિવસ - 3 જુજ્જવત સત્ત્વ અને દીવ, દમણ દાદરા નજર લલેલો ની 28-08-2024 માટે 'ભારે વરસાદ ની લેનવલોી'

28/08/2024



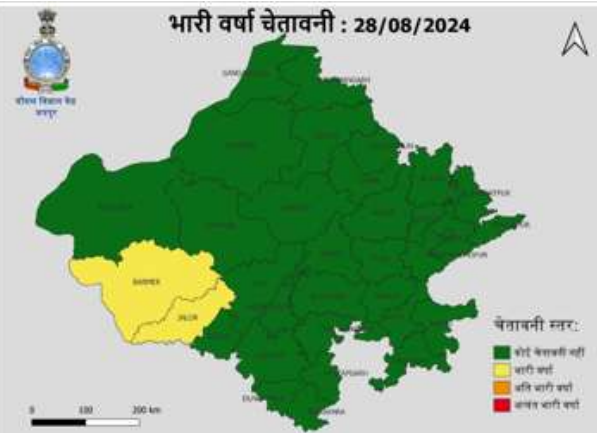
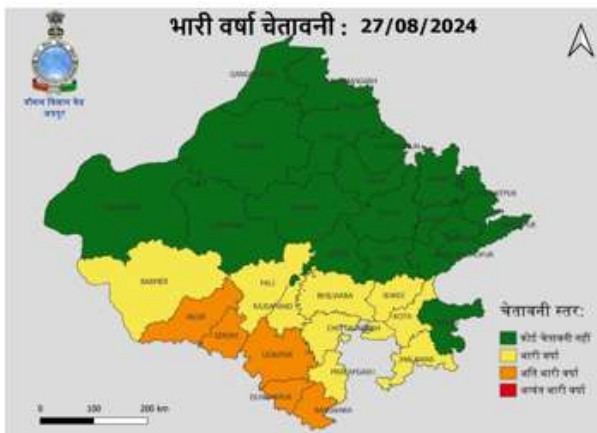
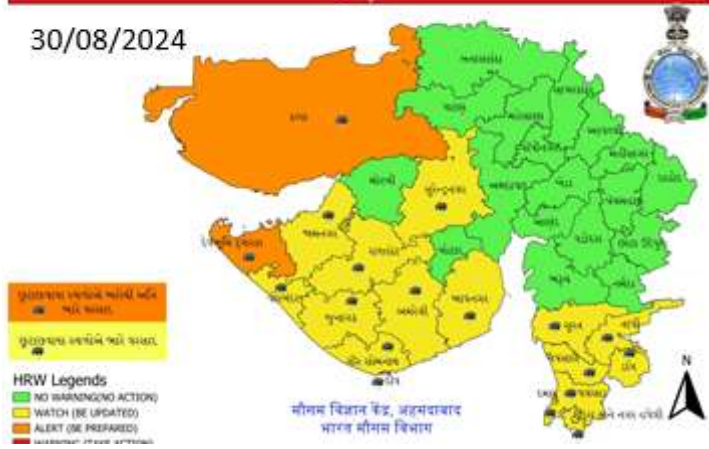
દિવસ - 4 જુજ્જવત સત્ત્વ અને દીવ, દમણ દાદરા નજર લલેલો ની 29-08-2024 માટે 'ભારે વરસાદ ની લેનવલોી'

29/08/2024

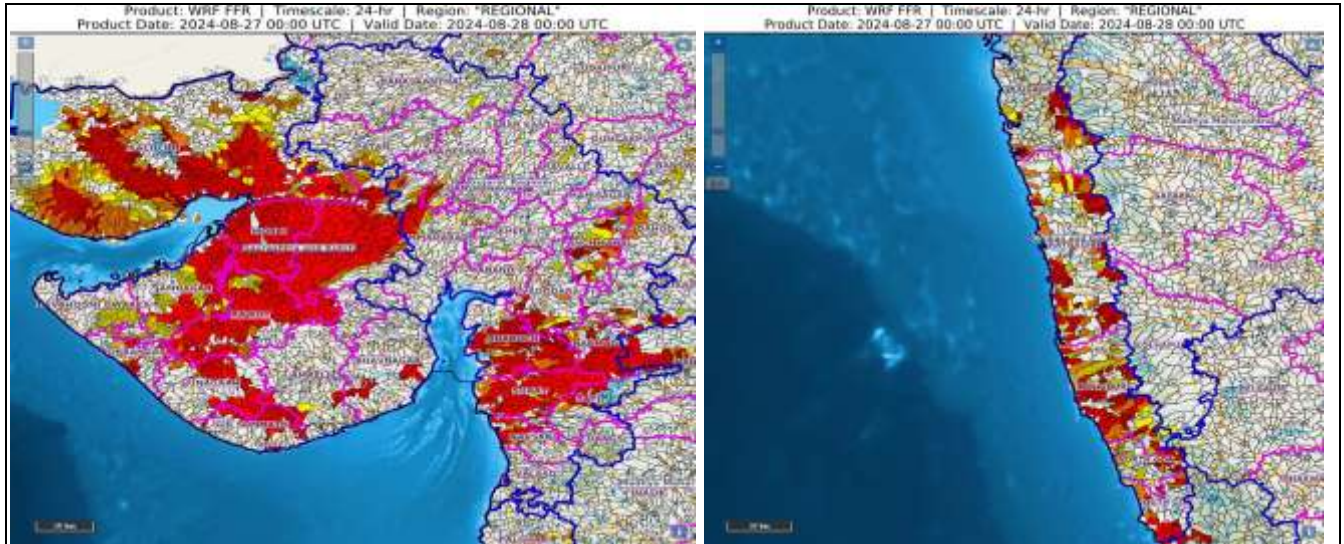


દિવસ - 5 જુજ્જવત સત્ત્વ અને દીવ, દમણ દાદરા નજર લલેલો ની 30-08-2024 માટે 'ભારે વરસાદ ની લેનવલોી'

30/08/2024



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 0530 IST of 28-08-2024 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of

Gujarat Region - Bharuch, Chhota Udepur, Narmada, Navsari, Surat, Tapi and Vadodara districts.

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

Low flash flood risk likely over few watersheds & neighbourhoods of

Konkan & Goa - North Goa, South Goa, Mumbai City, Palghar, Raigarh, Ratnagiri, Sindhudurg and Suburban Mumbai 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



	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.

ANNEXURE I

**Significant amount of rainfall observed from 0830 hrs IST of 26.08.2024 to 0530 hrs
IST of 27.08.2024 (in cm):**

Gujarat Region: Baroda-28, Ahemdabad-12, Surat-4;

Saurashtra & Kutch: Rajkot-19, Bhuj-8, Naliya-8, Okha & Dwarka -7each, Porbandar-5;

Gangetic West Bengal: Bankura-10, Diamond Harbour-9, Kolkata (Alipore)-6, Kolkata
(Dum Dum)-4;

East Madhya Pradesh: Satna-6;

Odisha: Paradip-5, Bhubaneshwar-3;

East Rajasthan: Jaipur-5, Ajmer & Udaipur -2 each;

Jharkhand: Jamshedpur-4;

Konkan & Goa: Ratnagiri-3, Panjim-2;

West Madhya Pradesh: Gwalior-2;

Madhya Maharashtra: Nasik-2.