



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

**NATIONAL BULLETIN NO. 29 (LAND/02/2024)**

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**FROM:INDIA METEOROLOGICAL DEPARTMENT**

**(FAX NO. 24643965/24699216/24623220)**

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**Sub: (a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northeast Arabian Sea off Kachchh and Pakistan coasts and (b) Well Marked Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal.**

**(a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northeast Arabian Sea off Kachchh and Pakistan coasts**

The **Cyclonic Storm "ASNA" (pronounced as As-Na)** over Kachchh coast and adjoining areas of Pakistan & Northeast Arabian Sea moved westwards with a speed of 12 kmph during past 6 hours and lay centered at 1430 hours IST of 30<sup>th</sup> August, 2024 over northeast Arabian Sea off Kachchh and adjoining Pakistan coasts near latitude 23.5°N and longitude 67.5°E, 240 km west of Bhuj (Gujarat), 140 km west-northwest of Naliya (Gujarat) and 160 km south-southeast of Karachi (Pakistan).

It is likely to continue to move nearly west-northwestwards over northeast Arabian Sea away from Indian coast during subsequent 2 days.

Forecast track and intensity are given in the following table:

<b>Date/Time(IST)</b>	<b>Position (Lat. °N/ long. °E)</b>	<b>Maximum sustained surface wind speed (Kmph)</b>	<b>Category of cyclonic disturbance</b>
30.08.24/1430	23.5/67.5	60-70 gusting to 80	Cyclonic Storm
30.08.24/1730	23.5/67.3	65-75 gusting to 85	Cyclonic Storm
30.08.24/2330	23.6/66.8	70-80 gusting to 90	Cyclonic Storm
31.08.24/0530	23.7/65.9	70-80 gusting to 90	Cyclonic Storm
31.08.24/1130	23.8/65.1	70-80 gusting to 90	Cyclonic Storm
31.08.24/2330	23.7/63.3	60-70 gusting to 80	Cyclonic Storm
01.09.24/1130	23.6/61.7	50-60 gusting to 70	Deep Depression
01.09.24/2330	23.0/60.5	40-50 gusting to 60	Depression

### **Warnings:**

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

##### **Gujarat State:**

**Saurashtra & Kachchh:** Light to moderate rainfall at most places **heavy to very heavy rainfall** at isolated places over Kachchh and adjoining districts of Saurashtra on 30<sup>th</sup> August.

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

- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely over the interior districts of South Gujarat Region and Saurashtra & Kutch on the 30<sup>th</sup> August.
- Squally wind speed reaching 60-70 kmph gusting to 80 kmph is prevailing along & off Gujarat coasts & adjoining Pakistan coasts and over northeast & adjoining eastcentral Arabian Sea. It is likely to increase becoming 70-80 kmph gusting to 90 kmph over northeast & adjoining eastcentral Arabian Sea from night of 30<sup>th</sup> August till 1<sup>st</sup> September morning and decrease gradually thereafter.
- Gale wind speed reaching 60-80 kmph gusting to 90 kmph is likely to prevail over northwest and adjoining westcentral Arabian Sea off Pakistan and southeast Iran coasts from morning of 31<sup>st</sup> August till 1<sup>st</sup> September, morning. Thereafter, the winds would gradually decrease gradually becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph by evening of 1<sup>st</sup> September and 40-50 kmph gusting to 60 kmph by morning of 2<sup>nd</sup> September.
- Strong wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail along and off north Maharashtra coasts during 30<sup>th</sup> to 31<sup>st</sup> August.

#### **(iii) Sea condition:**

- Squally weather with Rough to very Rough sea conditions is very likely to prevail along & off Gujarat & adjoining north Maharashtra Coasts till 31<sup>st</sup> August.
- Very rough to high sea condition is likely to prevail over northeast & adjoining eastcentral and Arabian Sea off Gujarat coast and along & off Pakistan coasts during 30<sup>th</sup> August to 1<sup>st</sup> September.
- Very rough to high Sea condition is likely to prevail over northwest and adjoining westcentral Arabian Sea off Pakistan and southeast Iran coasts from 31<sup>st</sup> August till 2<sup>nd</sup> September.

#### **(iv) Fishermen warning:**

Fishermen are advised not venture into

- Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining north Maharashtra Coasts till 31<sup>st</sup> August.
- Northeast & adjoining eastcentral Arabian Sea off Gujarat coast and along & off Pakistan coasts during 30<sup>th</sup> August to 1<sup>st</sup> September.
- Northwest & adjoining westcentral Arabian Sea and along & off Pakistan and southeast Iran coasts from 31<sup>st</sup> August till 2<sup>nd</sup> September.

**(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 on 30<sup>th</sup> August.

**(b) Well Marked Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal**

The well marked low pressure area over westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh & South Odisha persisted and lay over the same region at 1430 hours IST of 30<sup>th</sup> August, 2024.

It is likely to move further west-northwestwards towards north Andhra Pradesh and adjoining south Odisha coasts, intensify into a depression over westcentral and adjoining northwest Bay of Bengal during next 36 hours.

**Warnings:**

**(i) Rainfall Warning:**

**Odisha:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places during 30<sup>th</sup> to 31<sup>st</sup> August. Light to moderate rainfall at most places with isolated heavy rainfall likely on 1<sup>st</sup> September.

**Coastal Andhra Pradesh:** Light to moderate rainfall at most places with heavy rainfall at isolated places during 30<sup>th</sup> August to 1<sup>st</sup> September and heavy to very heavy rainfall at isolated places on 30<sup>th</sup> and 31<sup>st</sup> August.

**(ii) Wind warning:**

- Squally weather with wind speed reaching 30-40 kmph gusting to 50 kmph is likely to prevail over Westcentral and adjoining Northwest Bay of Bengal on 30<sup>th</sup> becoming 45-55 kmph gusting to 65 kmph on 31<sup>st</sup> August.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail along & off North Andhra Pradesh & south Odisha coasts on 31<sup>st</sup> August.

**(iii) Sea condition:**

- Rough sea condition is very likely to prevail over Westcentral and adjoining Northwest Bay of Bengal till 31<sup>st</sup> August.
- Rough sea condition is very likely to prevail along & off North Andhra Pradesh & south Odisha coasts on 31 August.

**(iv) Fishermen warning:**

Fishermen are advised not venture into

- Westcentral & adjoining northwest Bay of Bengal till 31<sup>st</sup> August and along & off south Odisha and north Andhra Pradesh Coasts on 31<sup>st</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 north Andhra Pradesh & south Odisha coasts and westcentral and adjoining northwest Bay of Bengal are advised to keep watch on developing weather and take necessary actions on 30<sup>th</sup> August.

### ❖ **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)

### ❖ **Action Suggested**

Fishermen are advised not venture into

- Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining north Maharashtra Coasts till 31<sup>st</sup> August.
- Northeast & adjoining eastcentral Arabian Sea off Gujarat coast and along & off Pakistan coasts during 30<sup>th</sup> August to 1<sup>st</sup> September.
- Northwest & adjoining westcentral Arabian Sea and along & off Pakistan and southeast Iran coasts from 31<sup>st</sup> August till 2<sup>nd</sup> September.
- Westcentral & adjoining northwest Bay of Bengal till 31<sup>st</sup> August and along & off south Odisha and north Andhra Pradesh Coasts on 31<sup>st</sup> 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.

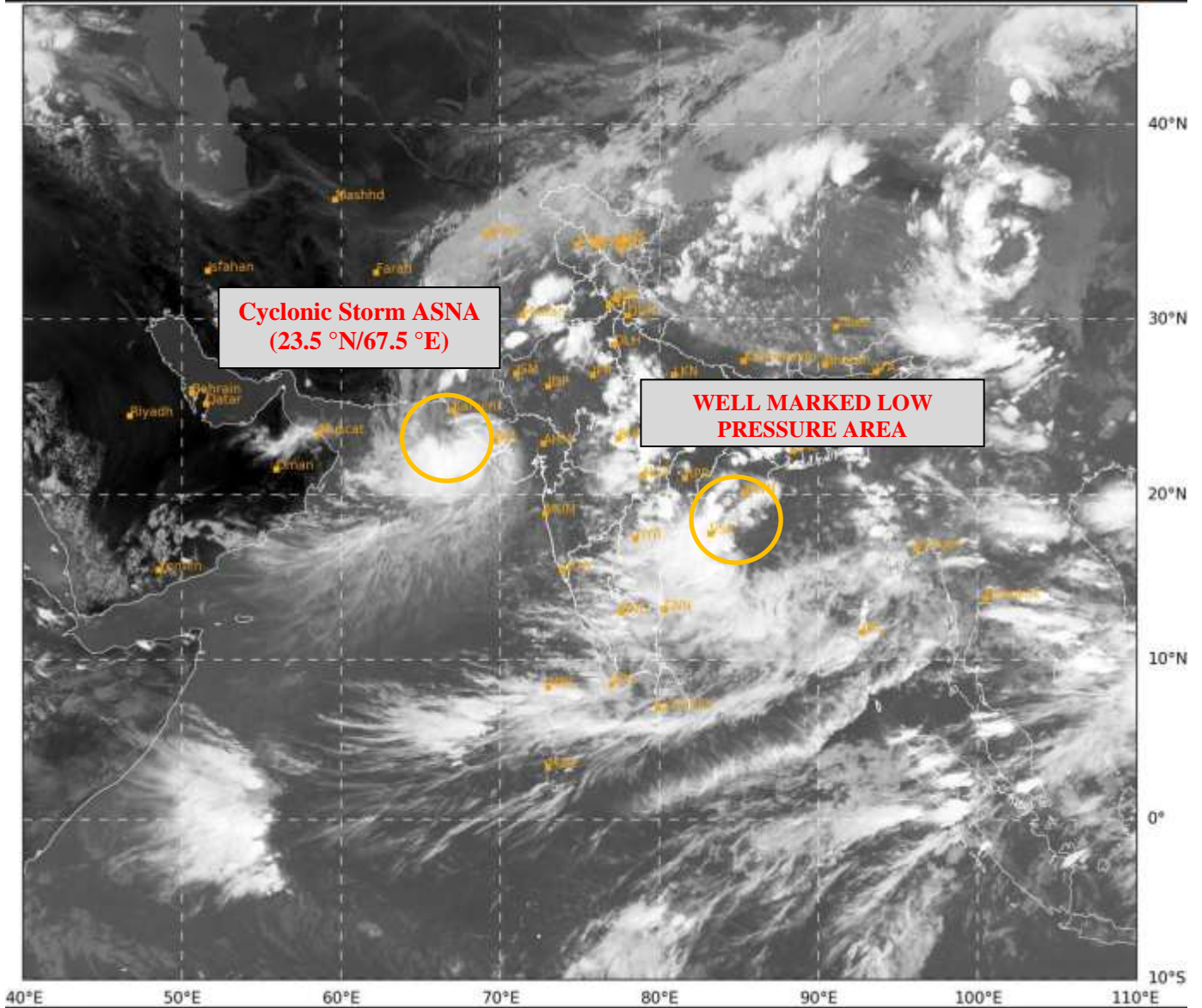
### ❖ **Agromet Advisories for Heavy Rainfall** likely over Gujarat, Odisha and Andhra Pradesh due to both systems

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

**Next bulletin will be issued at 2030 hours IST of today, the 30<sup>th</sup> August, 2024.**

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

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



**Cyclonic Storm ASNA  
(23.5 °N/67.5 °E)**

**WELL MARKED LOW  
PRESSURE AREA**

40°E 50°E 60°E 70°E 80°E 90°E 100°E 110°E





**OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER KACHCHH COAST AND ADJOINING AREAS OF PAKISTAN & NORTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 30<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



**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM ASNA OVER KACHCHH COAST AND ADJOINING AREAS OF PAKISTAN & NORTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 30<sup>TH</sup> AUGUST, 2024**



DATE/TIME IN UTC  
IST=UTC + 0530

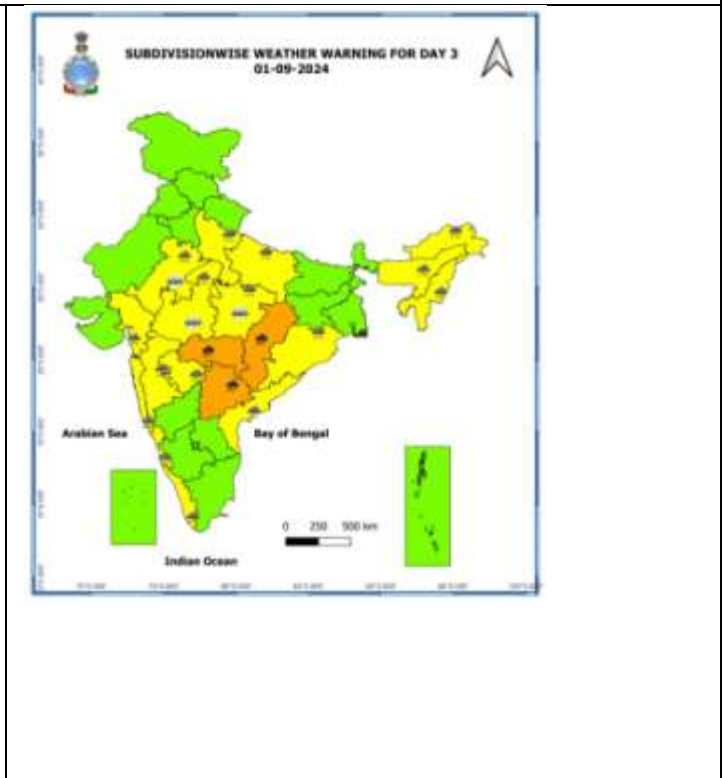
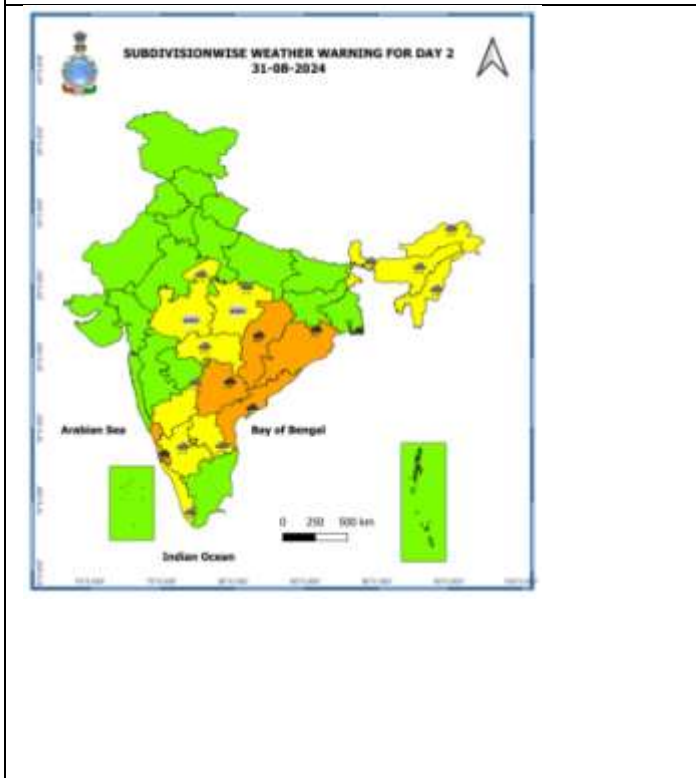
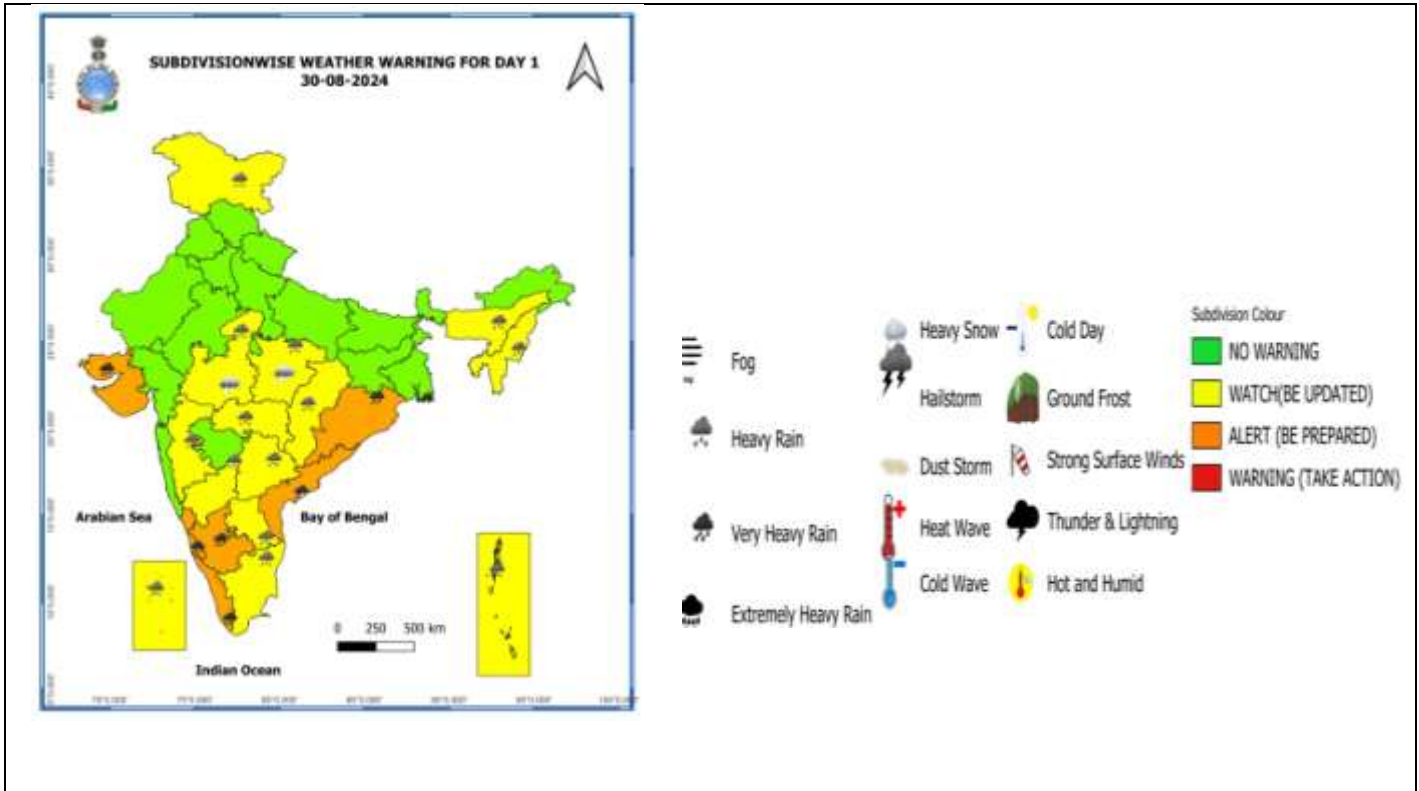
L: LOW PRESSURE AREA  
WML: WELL MARKED LOW PRESSURE AREA  
D: DEPRESSION (17-27 KT)  
DD: DEEP DEPRESSION (28-33 KT)  
CS: CYCLONIC STORM (34-47 KT)  
SCS: SEVERE CYCLONIC STORM (48-63KT)  
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
SuCS: SUPER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

● LESS THAN 34 KT  
○ 34-47 KT  
● ≥ 48 KT  
— OBSERVED TRACK  
— FORECAST TRACK  
— CONE OF UNCERTAINTY  
AREA OF MAXIMUM SUSTAINED WIND SPEED:  
■ 28-33 KT (52-61 KMPH)  
■ 34-49 KT (62-91 KMPH)  
■ 50-63 KT (92-117 KMPH)  
■ ≥ 64 KT (≥118 KMPH)

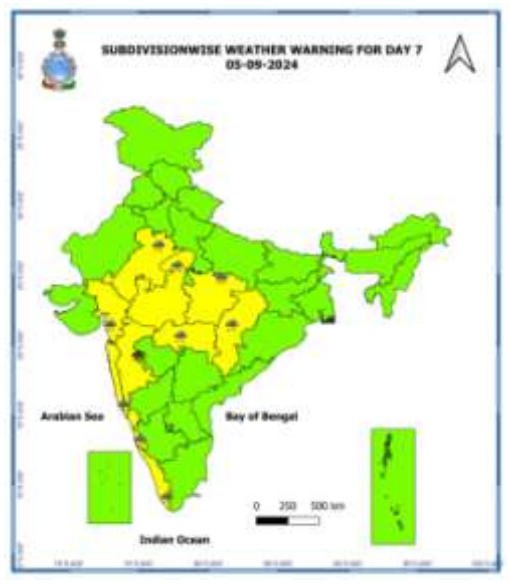
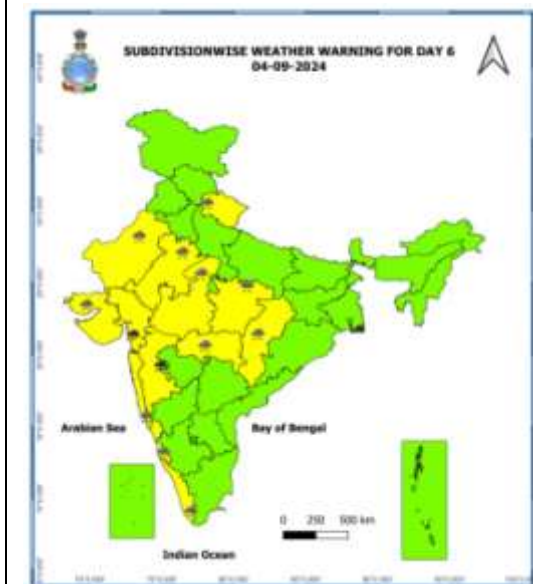
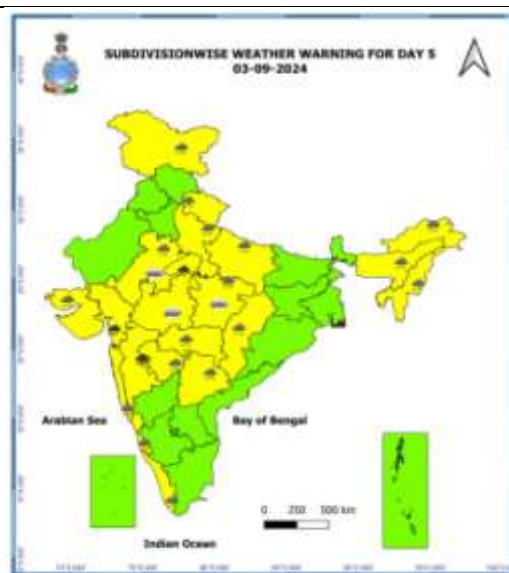
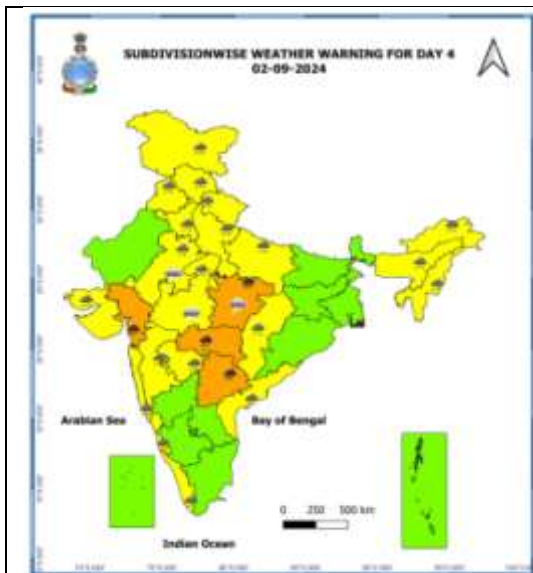
**IMPACT OVER THE SEA**

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

# Weather Warning Graphics

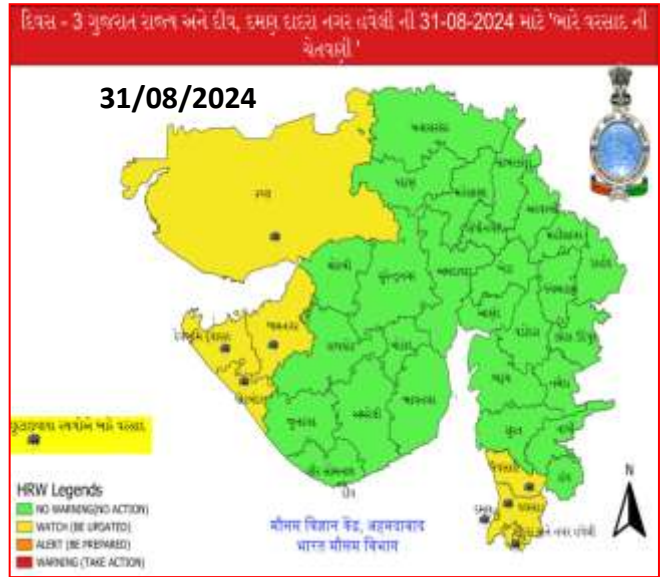
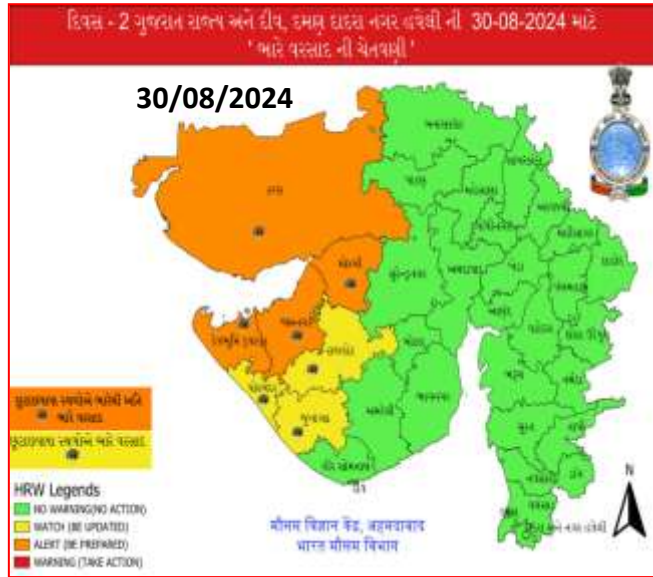






- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

## District wise Warning Graphics Gujarat



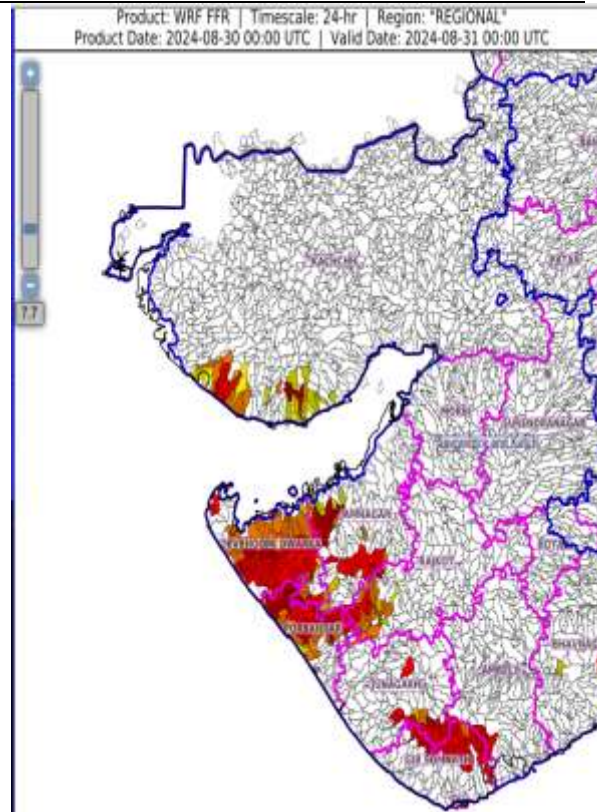
## Flash Flood Guidance

### 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 31-08-2024 :

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

Saurashtra & Kutch - Amreli, Bhavnagar, Devbhoomi Dwarka, Gir Somnath, Jamnagar, Junagarh, Porbandar, Rajkot 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

