



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

**NATIONAL BULLETIN NO. 31 (LAND/02/2024)**

**TIME OF ISSUE: 2230 HOURS IST**

**DATED:30.08.2024**

**FROM:INDIA METEOROLOGICAL DEPARTMENT**

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**Sub: (a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northeast Arabian Sea off Pakistan coast 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 Pakistan coast**

The **Cyclonic Storm "ASNA" (pronounced as As-Na)** over northeast Arabian Sea off Kachchh and adjoining Pakistan coasts moved westwards with a speed of 8 kmph during past 6 hours and lay centered at 2030 hours IST of 30<sup>th</sup> August, 2024 over northeast Arabian Sea off Pakistan coast near latitude 23.5°N and longitude 67.0°E, 190 km west of Naliya (Gujarat), 150 km south of Karachi (Pakistan) and 400km east-southeast of Pasni (Pakistan)

It is likely to continue to move nearly west-northwestwards over northeast Arabian Sea away from Indian coast during next 24 hours and west-southwest wards subsequently.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
30.08.24/2030	23.5/67.0	65-75 gusting to 85	Cyclonic Storm
30.08.24/2330	23.5/66.5	65-75 gusting to 85	Cyclonic Storm
31.08.24/0530	23.6/65.6	70-80 gusting to 90	Cyclonic Storm
31.08.24/1130	23.7/64.8	70-80 gusting to 90	Cyclonic Storm
31.08.24/1730	23.8/64.0	60-70 gusting to 80	Cyclonic Storm
01.09.24/0530	23.6/62.5	50-60 gusting to 70	Deep Depression
01.09.24/1730	23.3/61.1	40-50 gusting to 60	Depression
02.09.24/0530	23.0/59.6	30-40 gusting to 50	Well Marked Low Pressure Area

### **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:**

- Gale wind speed reaching 65-75 kmph gusting to 80 kmph is prevailing along & off Pakistan and adjoining Saurashtra & Kachchh coasts. It is likely to decrease becoming squally wind speed reaching 55-65 kmph gusting to 75 kmph from 31<sup>st</sup> morning and 40-50 kmph gusting to 60 kmph from 31<sup>st</sup> August night. It will further decrease thereafter.
- Gale wind speed reaching 65-75 kmph gusting to 80 kmph is prevailing over northeast & adjoining eastcentral Arabian Sea. It is likely to increase becoming 70-80 kmph gusting to 90 kmph over northeast Arabian Sea off Pakistan coast from morning to evening of 31<sup>st</sup> August and decrease gradually becoming squally wind speed reaching 40-50 kmph gusting to 50 kmph from morning of 1<sup>st</sup> September.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over northwest Arabian Sea off Pakistan coast from night of 30<sup>th</sup> August and increase gradually becoming Gale wind speed reaching 70-80 kmph gusting to 90 kmph from morning of 31<sup>st</sup> August morning. Thereafter, the winds would gradually decrease becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph from morning and 40-50 kmph gusting to 60 kmph by evening of 1<sup>st</sup> September.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely along & off Pakistan coast till 1<sup>st</sup> September.
- Strong wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail adjoining central Arabian Sea till 2<sup>nd</sup> September morning and along and off Gujarat & north Maharashtra coasts till 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.
- Squally weather with Rough sea conditions is likely along & off Pakistan coast till 1<sup>st</sup> September.
- Very rough to high sea condition is likely to prevail over northeast Arabian Sea off Pakistan coast during 30<sup>th</sup> to 31<sup>st</sup> August and improve thereafter.
- Very rough to high Sea condition is likely to prevail over northwest Arabian Sea off Pakistan and southeast Iran coasts from 31<sup>st</sup> August till 1<sup>st</sup> September, Rough sea condition on 2<sup>nd</sup> September and improve thereafter.

**(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 coast from 31<sup>st</sup> August till 2<sup>nd</sup> September.

**(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 2030 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<sup>st</sup> 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.

**❖ 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.

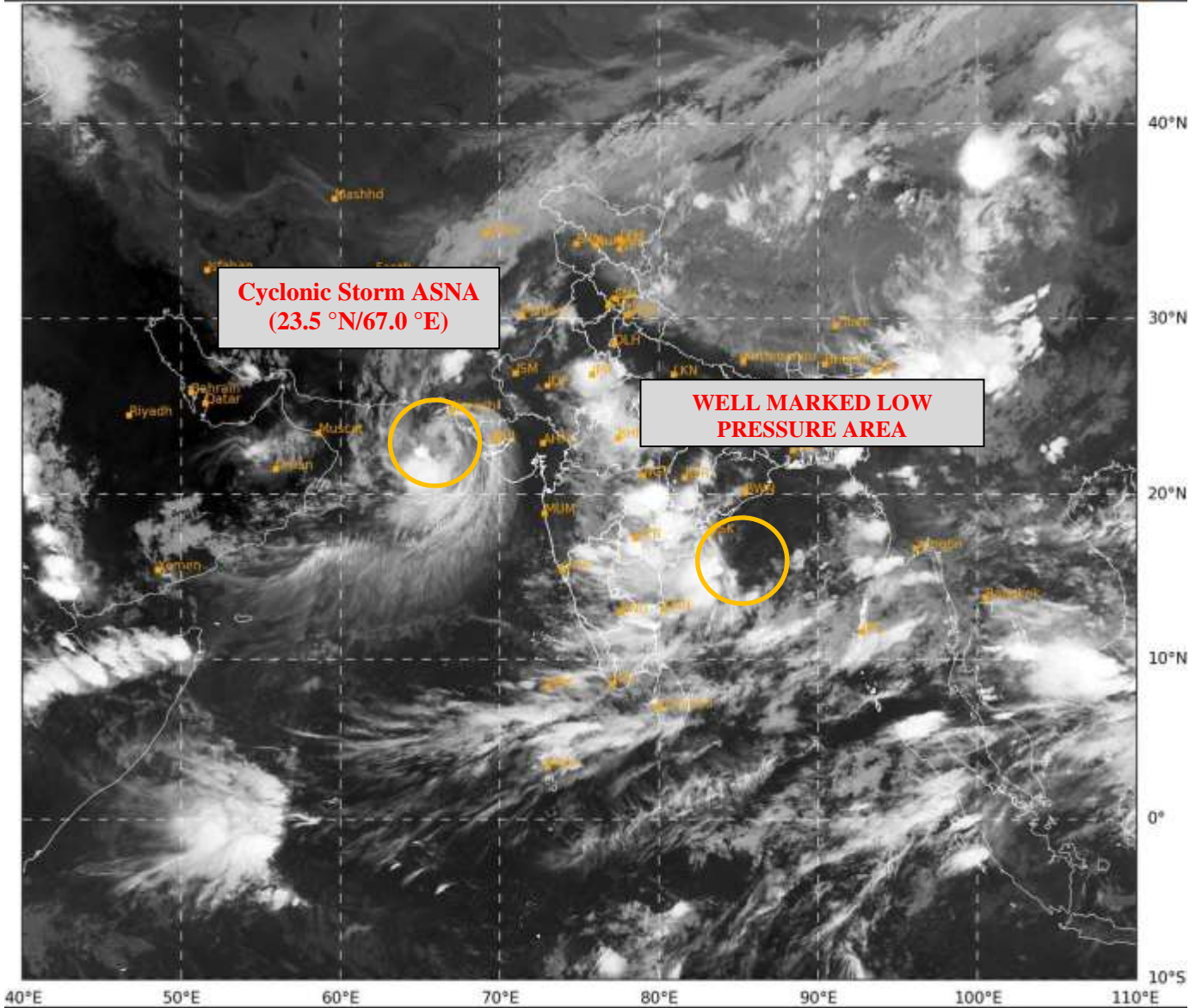
❖ **Agromet Advisories for Heavy Rainfall** likely over Gujarat, Odisha and Andhra Pradesh due to both systems

- 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 0230 hours IST of 31<sup>st</sup> August, 2024.**

**(Akhil Srivastava)**  
**Scientist-D, 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*



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IMD, DELHI



**OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER NORTHEAST ARABIAN SEA OFF KACHCHH AND PAKISTAN COAST BASED ON 1200 UTC (1730 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 NORTHEAST ARABIAN SEA OFF KACHCHH AND PAKISTAN COAST BASED ON 1200 UTC (1730 IST) OF 30<sup>TH</sup> AUGUST, 2024**



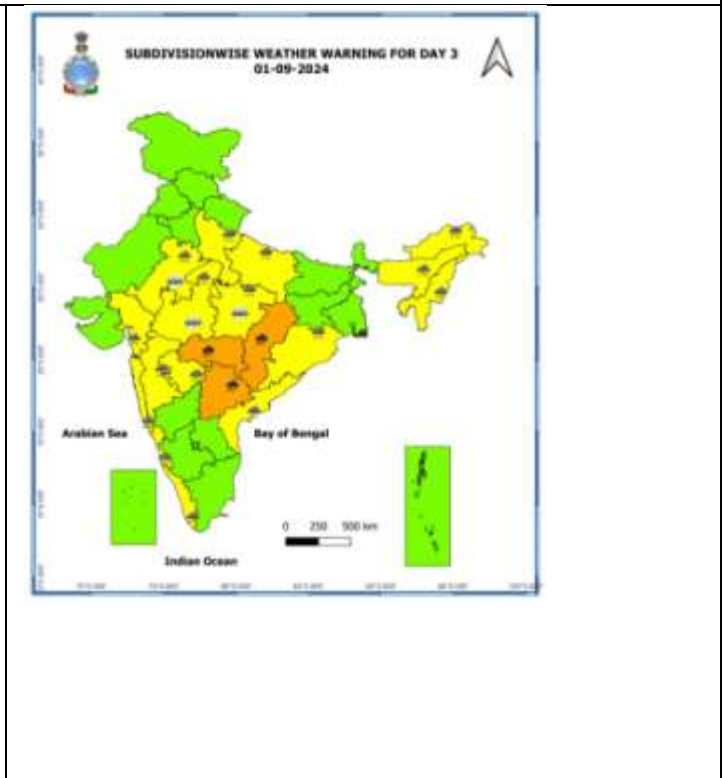
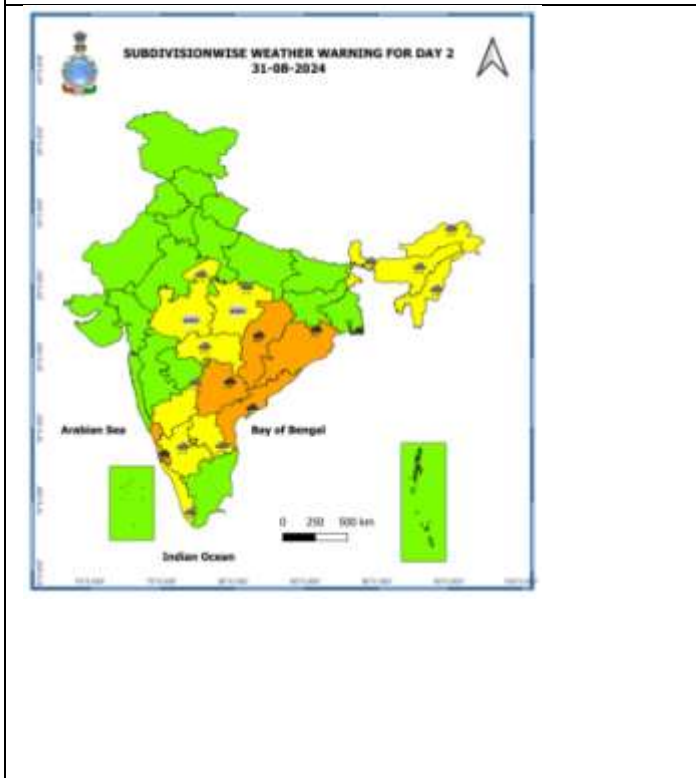
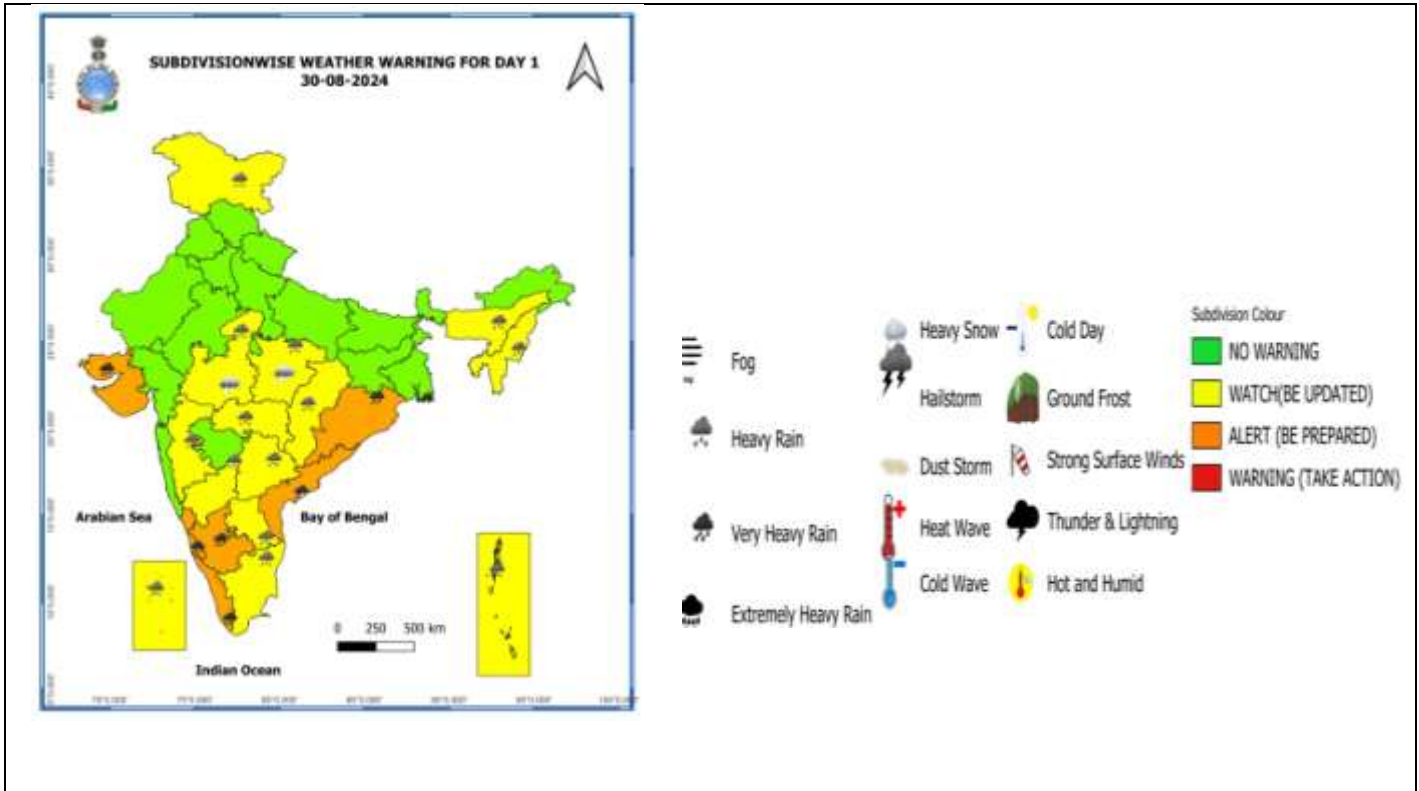
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
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 CS: CYCLONIC STORM (34-47 KT)  
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 VSCS: VERY SEVERE CYCLONIC STORM (64-89 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)

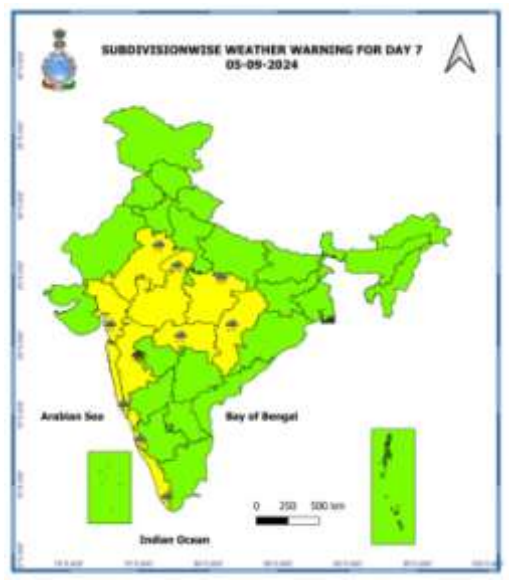
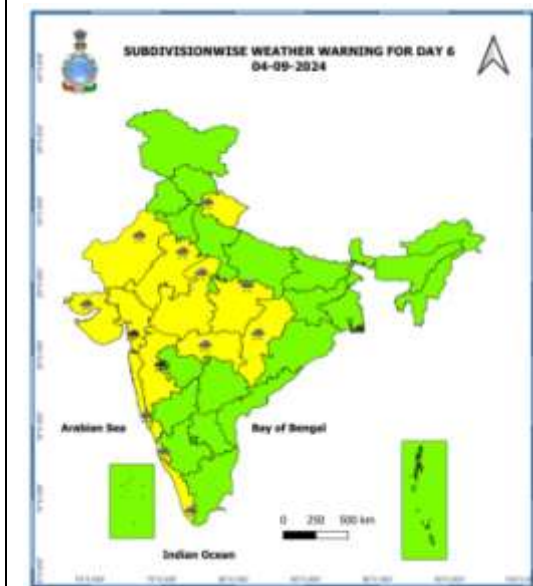
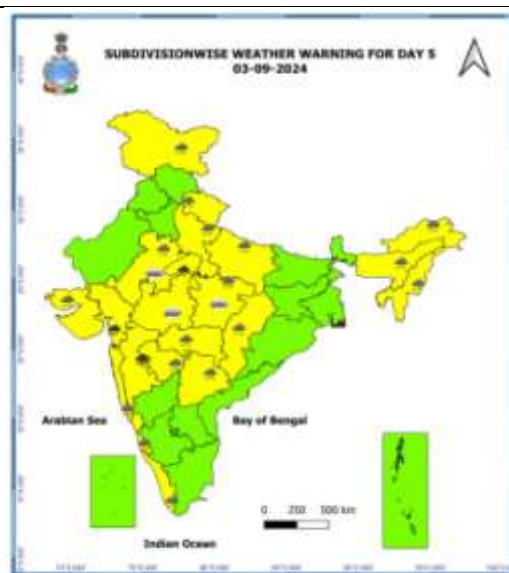
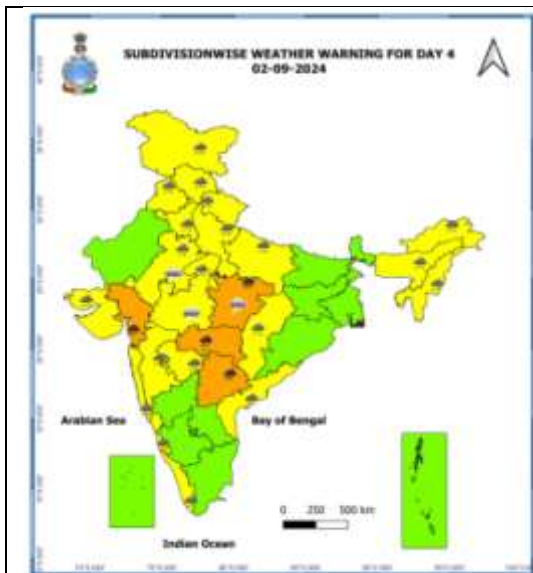
**IMPACT OVER THE SEA**

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

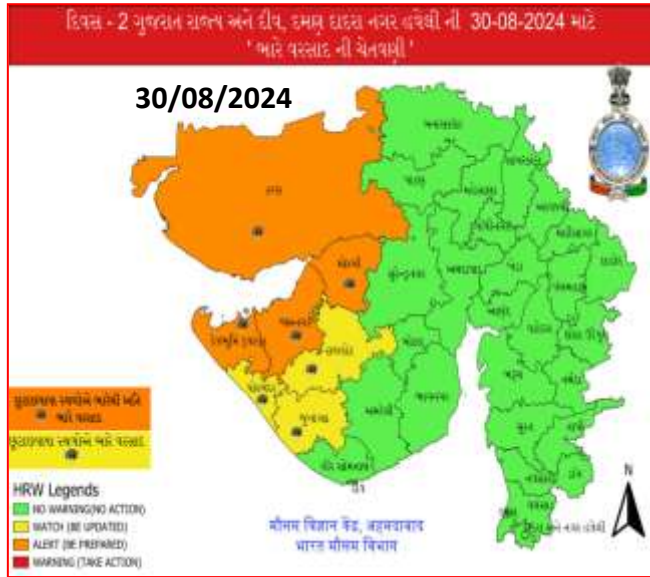






- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

## District wise Warning Graphics Gujarat

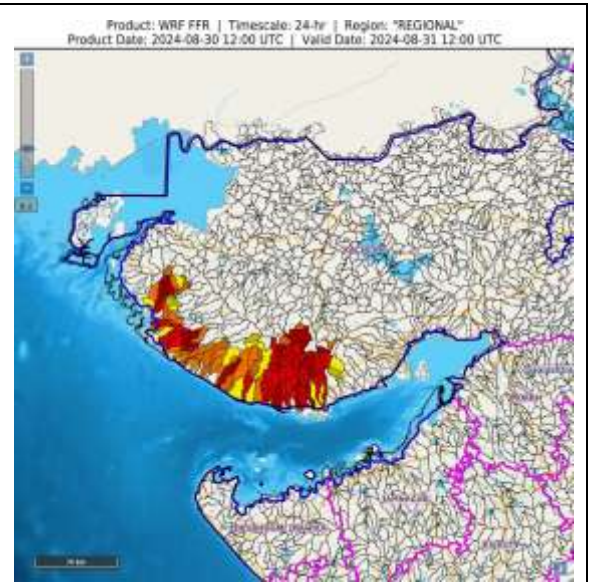


### Flash Flood Guidance

**24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 31-08-2024 :**

**Low flash flood risk** likely over few watersheds & neighbourhoods of **Saurashtra & Kutch** - Kachchh district.

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

