



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

NATIONAL BULLETIN NO. 33 (LAND/02/2024)

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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 Pakistan coast moved westwards with a speed of 13 kmph during past 6 hours and lay centered at 0230 hours IST of 31st August, 2024 over the same region near latitude 23.6°N and longitude 66.2°E, 270 km west of Naliya (Gujarat), 170 km south-southwest of Karachi (Pakistan) and 330 km 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
31.08.24/0230	23.6/66.2	65-75 gusting to 85	Cyclonic Storm
31.08.24/0530	23.7/65.6	70-80 gusting to 90	Cyclonic Storm
31.08.24/1130	23.8/64.8	70-80 gusting to 90	Cyclonic Storm
31.08.24/1730	23.8/64.0	60-70 gusting to 80	Cyclonic Storm
31.08.24/2330	23.7/63.2	55-65 gusting to 75	Cyclonic Storm
01.09.24/1130	23.4/61.8	50-60 gusting to 70	Deep Depression
01.09.24/2330	23.1/60.3	40-50 gusting to 60	Depression

Warnings:

(i) Wind warning:

- Squally wind speed reaching 55-65 kmph gusting to 75 kmph is prevailing along & off Pakistan and adjoining Saurashtra & Kachchh coasts. It is likely to decrease becoming squally wind speed reaching 40-50 kmph gusting to 60 kmph from 31st August night. It will further decrease thereafter.
- Gale wind speed reaching 65-75 kmph gusting to 85 kmph is prevailing over northeast & adjoining eastcentral Arabian Sea. It is likely to increase becoming 70-80 kmph gusting to 90 kmph from morning to evening of 31st August and decrease gradually becoming squally wind speed reaching 40-50 kmph gusting to 60 kmph from morning of 1st September.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing over northwest Arabian Sea off Pakistan coast and likely to increase gradually becoming Gale wind speed reaching 70-80 kmph gusting to 90 kmph from morning of 31st 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 1st September.
- Strong wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over adjoining central Arabian Sea till 2nd September morning and along and off Gujarat & north Maharashtra coasts till 31st August.

(ii) Sea condition:

- Squally weather with Rough to very rough sea conditions is very likely to prevail along & off Gujarat & adjoining north Maharashtra Coasts till 31st August.
- Squally weather with Rough sea conditions is likely along & off Pakistan coast till 1st September.
- Very rough to high sea condition is likely to prevail over northeast Arabian Sea off Pakistan coast during 31st 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 31st August till 1st September, Rough sea condition on 2nd September and improve thereafter.

(iii) Fishermen warning:

Fishermen are advised not venture into

- Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining north Maharashtra Coasts till 31st August.
- Northeast & adjoining eastcentral Arabian Sea off Gujarat coast and along & off Pakistan coasts during 31st August to 1st September.
- Northwest & adjoining westcentral Arabian Sea and along & off Pakistan coast from 31st August till 2nd 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 0230 hours IST of 31st 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 24 hours.

Warnings:

(i) Rainfall Warning:

Odisha: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places on 31st August. Light to moderate rainfall at most places with isolated heavy rainfall likely on 1st September.

Coastal Andhra Pradesh: Light to moderate rainfall at most places with heavy rainfall at isolated places during 31st August to 1st September and heavy to very heavy rainfall at isolated places on 31st August.

(ii) Wind warning:

- Squally weather with wind speed reaching 30-40 kmph gusting to 50 kmph is prevailing over Westcentral and adjoining Northwest Bay of Bengal and likely to increase becoming 45-55 kmph gusting to 65 kmph on 31st 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 31st August.

(iii) Sea condition:

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

(iv) Fishermen warning:

Fishermen are advised not venture into

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

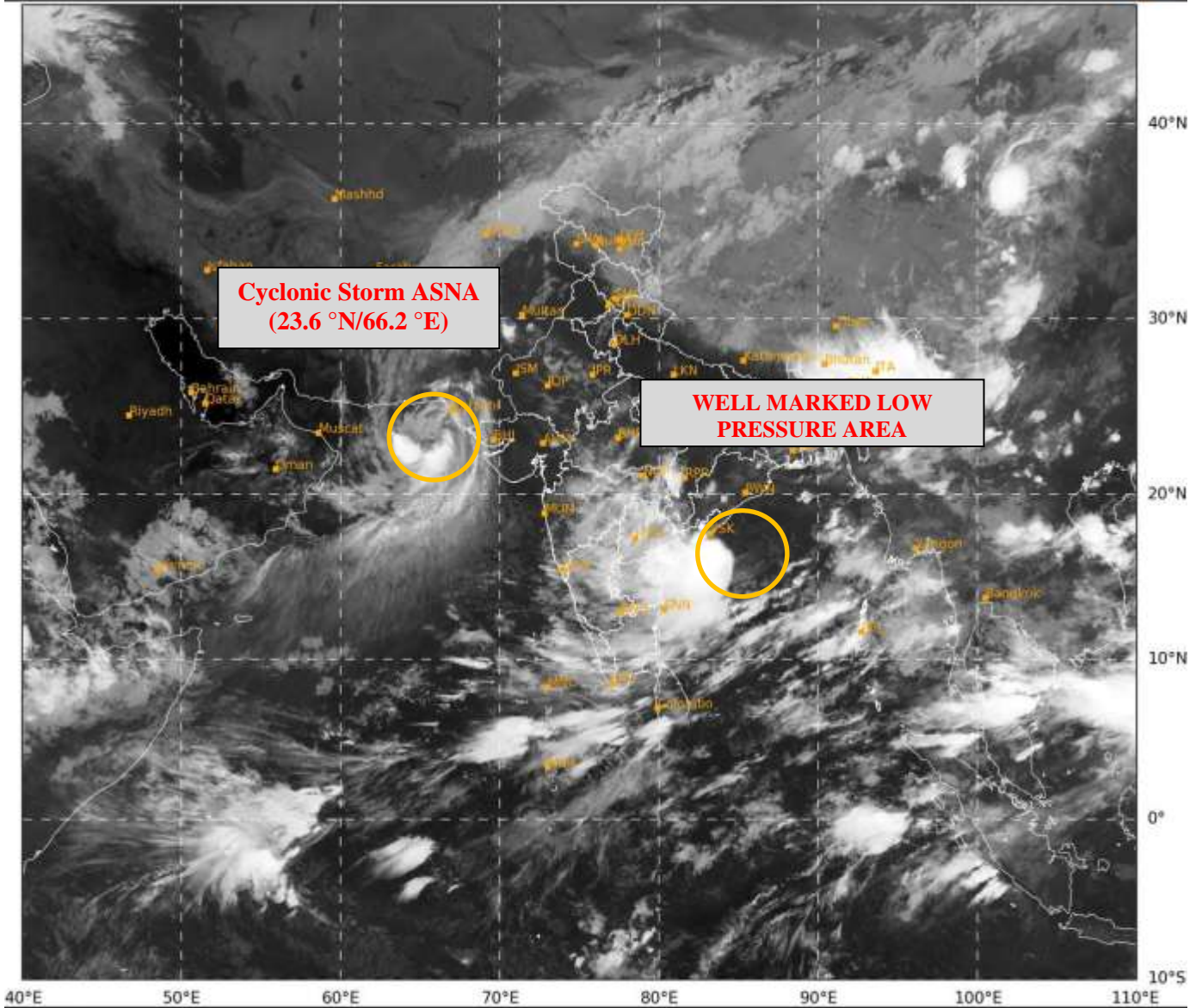
❖ **Agromet Advisories for Heavy Rainfall** likely over Gujarat, Odisha and Andhra Pradesh due to both systems

- 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 0830 hours IST of 31st 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



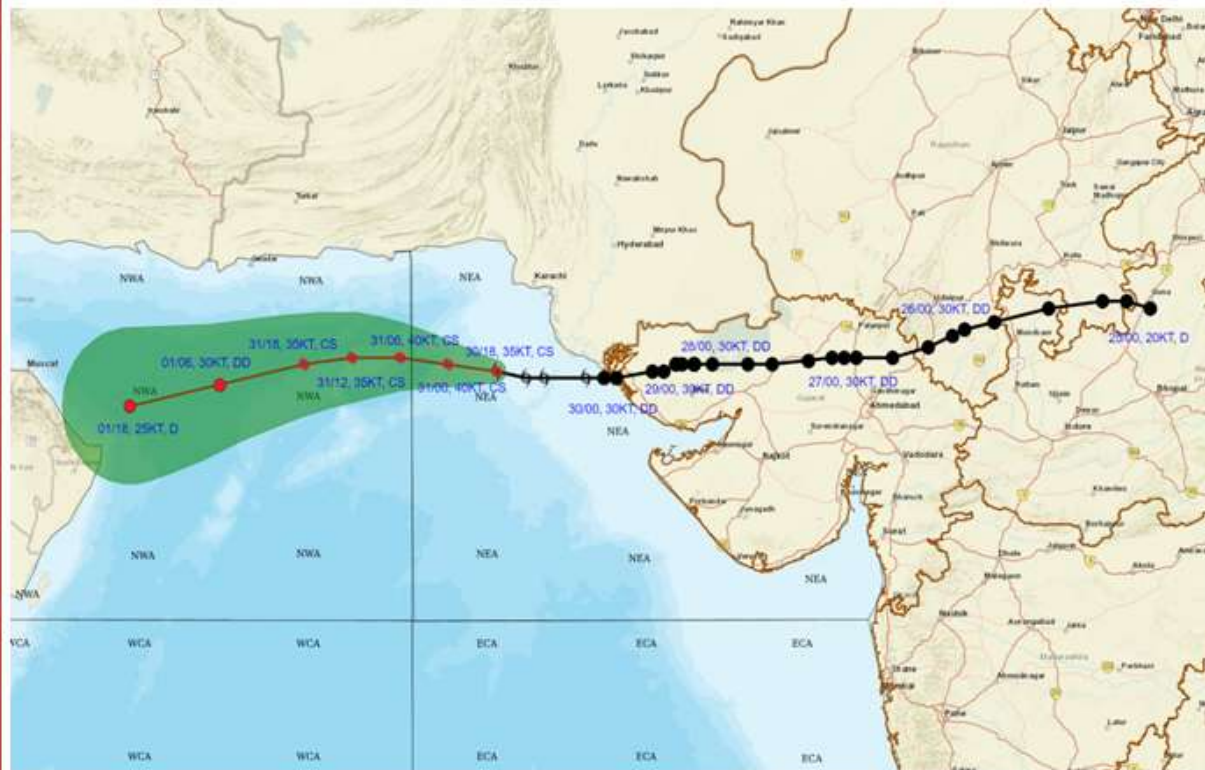
513

944

IMD, DELHI



OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER NORTHEAST ARABIAN SEA OFF PAKISTAN COAST BASED ON 1800 UTC (2330 IST) OF 30TH 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 PAKISTAN COAST BASED ON 1800 UTC (2330 IST) OF 30TH AUGUST, 2024



DATE/TIME IN UTC
IST=UTC + 0530

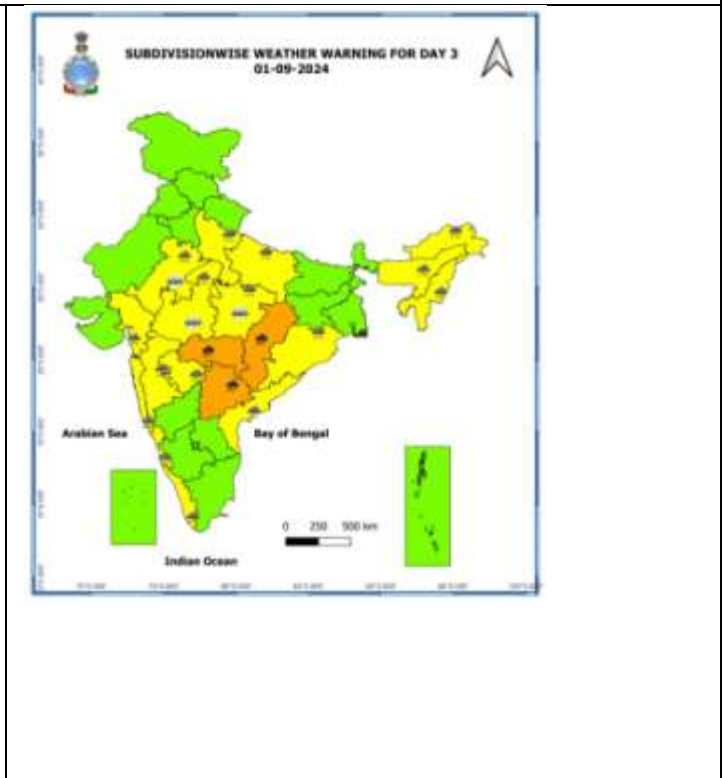
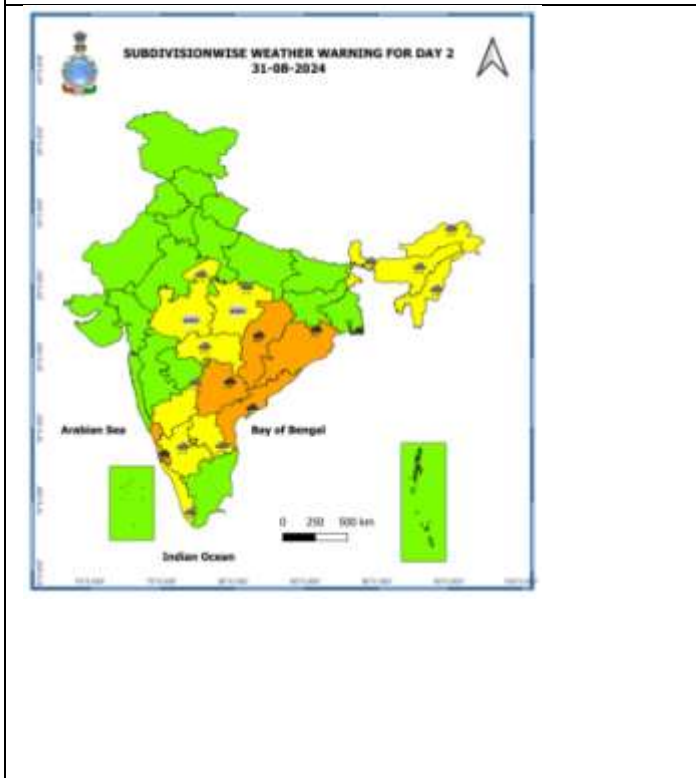
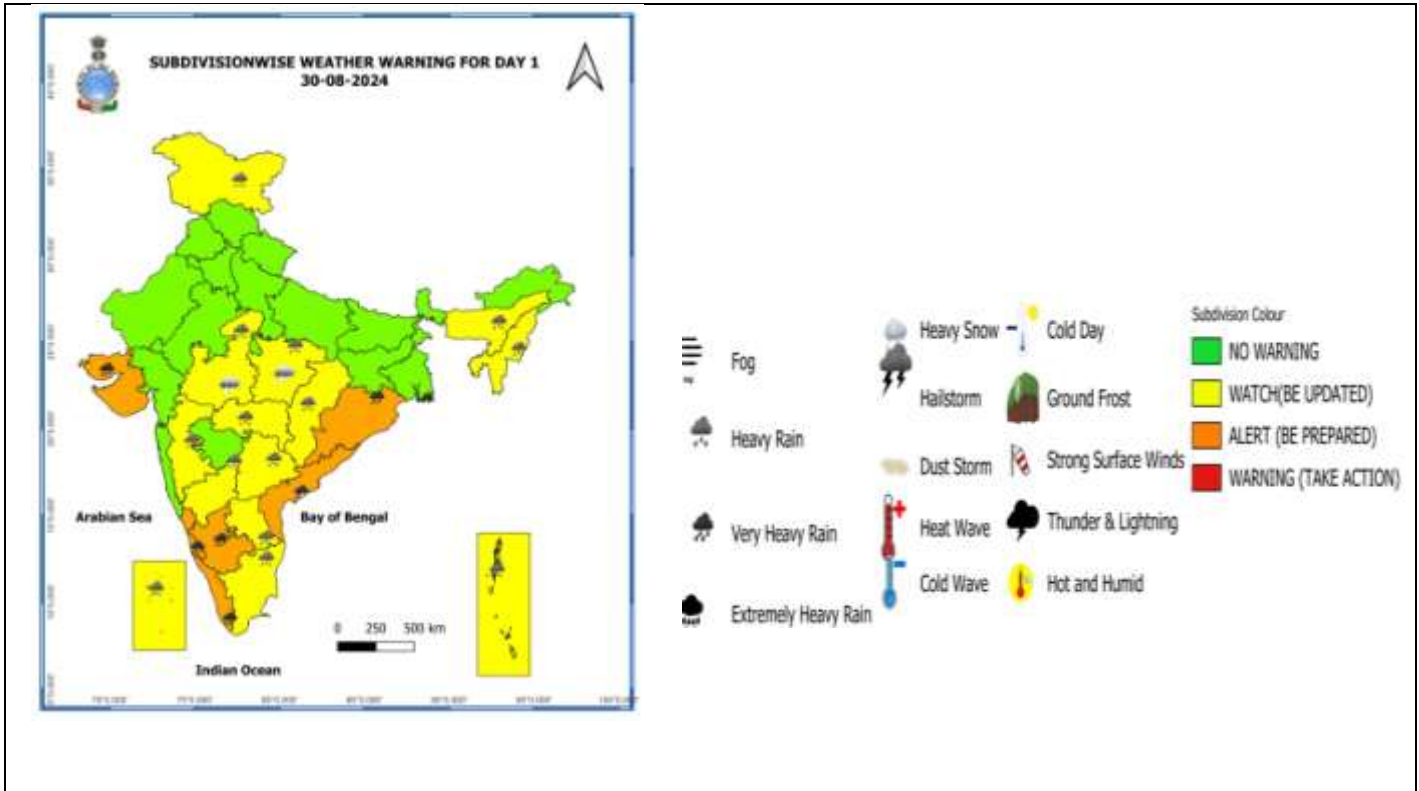
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
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SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

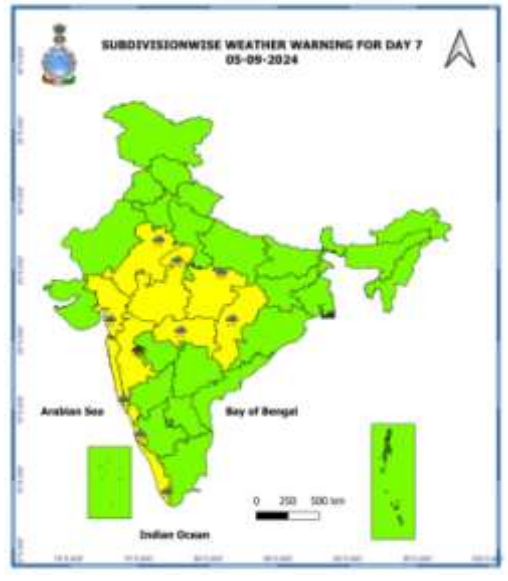
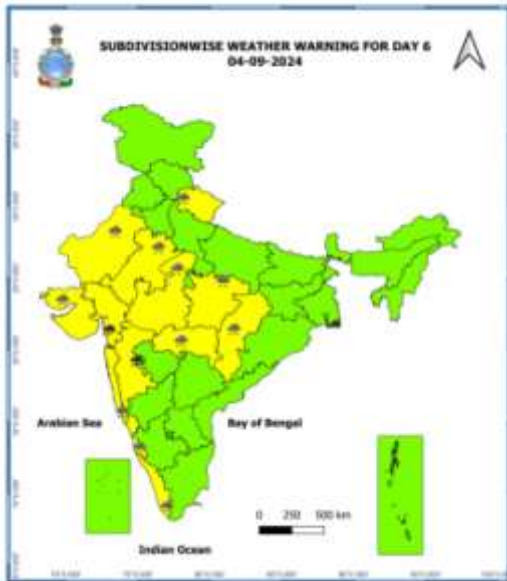
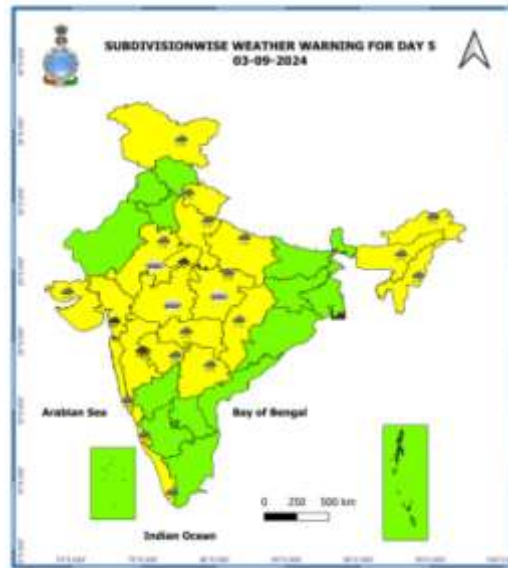
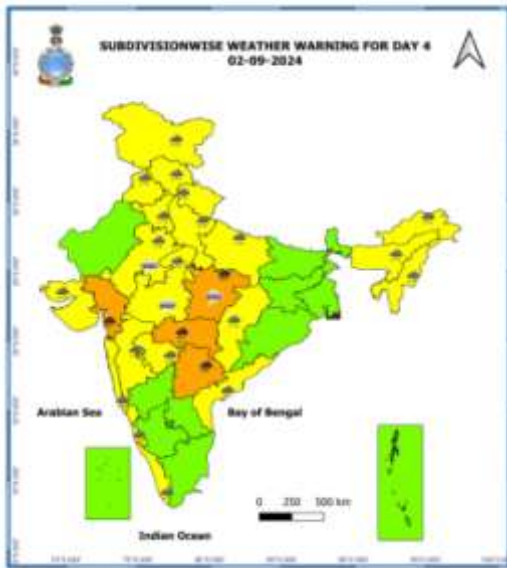
● LESS THAN 34 KT
○ 34-47 KT
⦿ ≥ 48 KT
— OBSERVED TRACK
— FORECAST TRACK
— CONE OF UNCERTAINTY
AREA OF MAXIMUM SUSTAINED WIND SPEED:
28-33 KT (52-61 KMPH)
34-49 KT (62-91 KMPH)
50-63 KT (92-117 KMPH)
≥ 64 KT (≥118 KMPH)

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

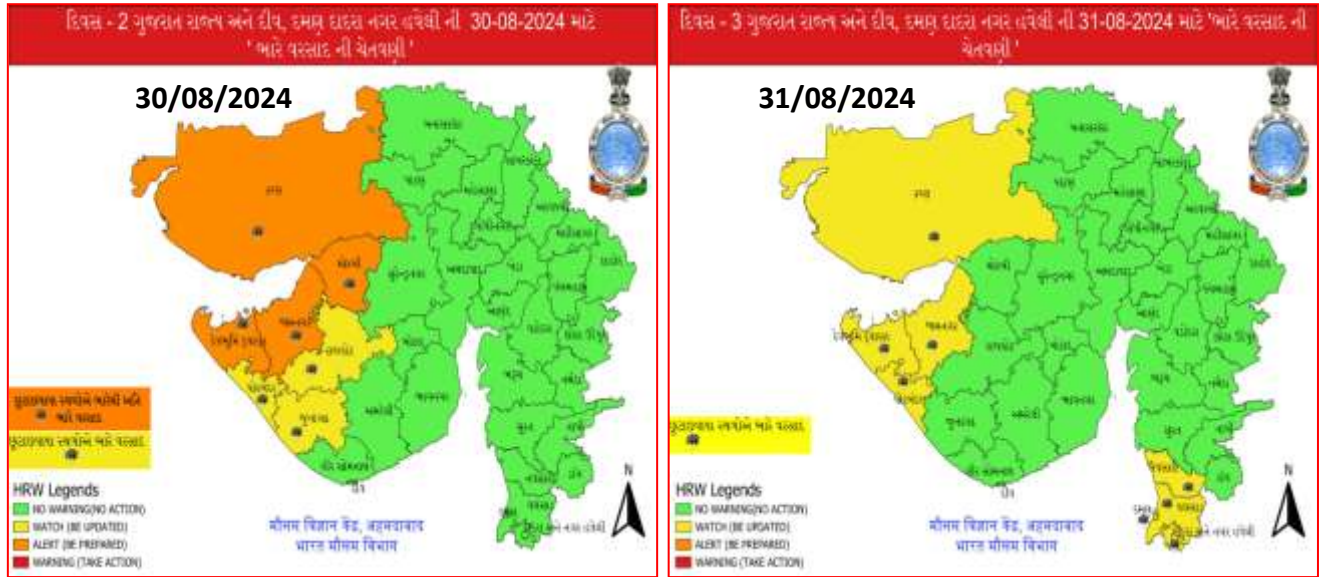
Weather Warning Graphics





- 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

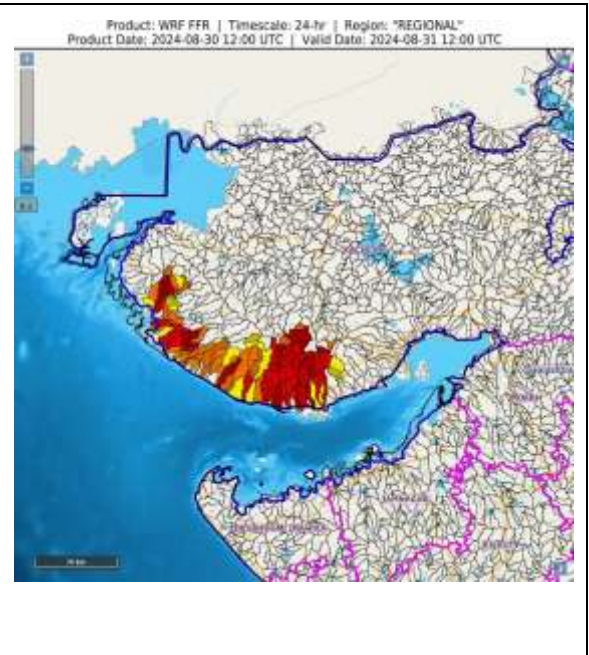


Flash Flood Guidance

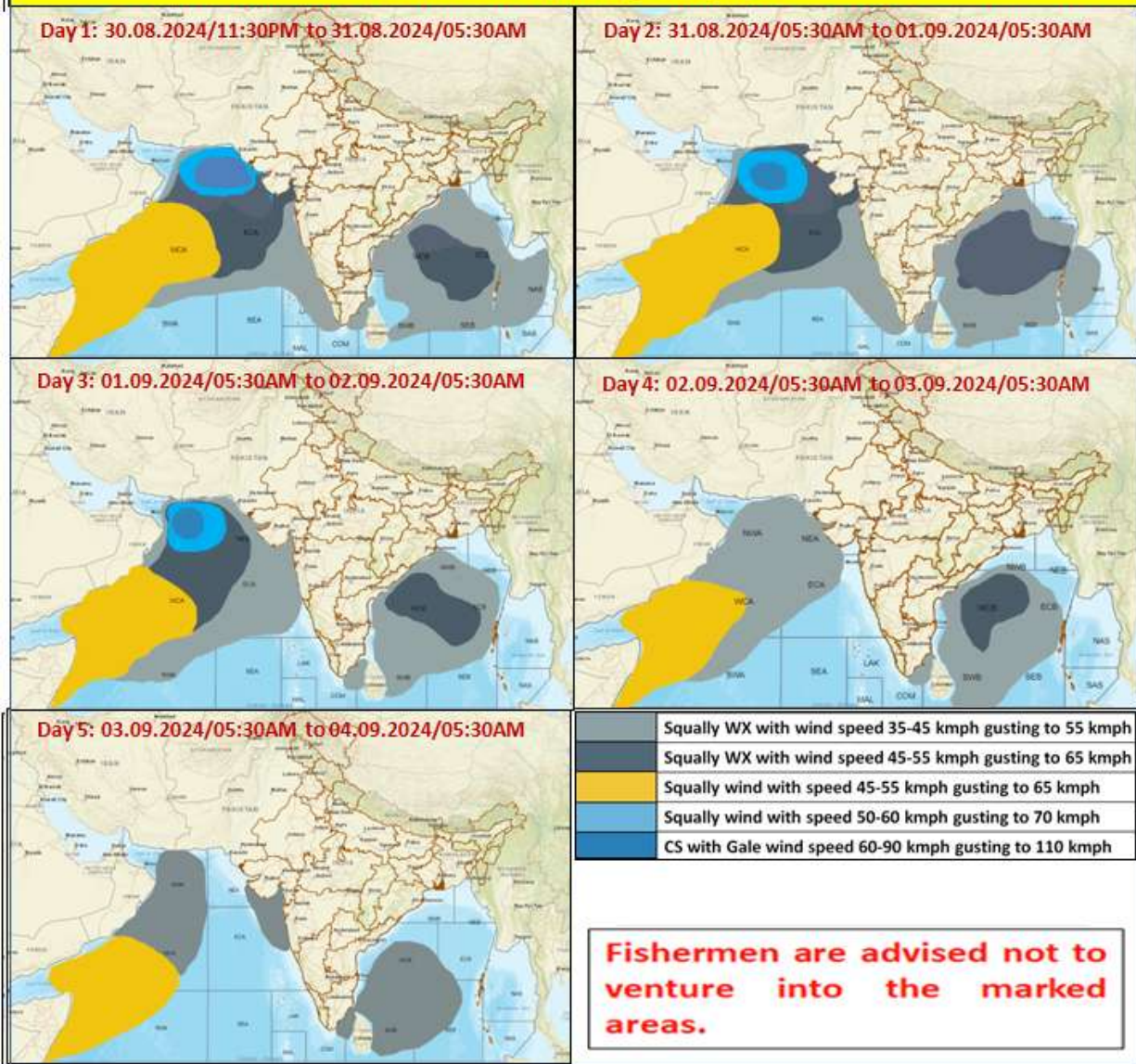
24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 31-08-2024 :

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



Fishermen are advised not to venture into the marked areas.