



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

NATIONAL BULLETIN NO. 40 (LAND/02/2024)

TIME OF ISSUE: 0230 HOURS IST

DATED: 01.09.2024

FROM:INDIA METEOROLOGICAL DEPARTMENT

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Sub: (a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northwest and adjoining northeast Arabian Sea and (b) Depression over Westcentral & adjoining Northwest Bay of Bengal.

(a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northwest and adjoining northeast Arabian Sea

The **Cyclonic Storm "ASNA" (pronounced as As-Na)** over central parts of North Arabian Sea moved west-southwestwards with a speed of 12 kmph during past 6 hours and lay centered at 2330 hours IST of yesterday, 31st August, 2024 over northwest and adjoining northeast Arabian Sea near latitude 23.5°N and longitude 63.3°E, 570 km west of Naliya (Gujarat), 420 km west-southwest of Karachi (Pakistan), 200 km south of Pasni (Pakistan) and 510 km east of Muscat (Oman).

It is likely to continue to move west-southwestwards over northwest Arabian Sea and maintain its intensity till forenoon of 1st September. Thereafter, it is likely to move southwestwards for subsequent 24 hours and weaken gradually into a depression over northwest Arabian Sea by morning of 2nd September 2024.

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
31.08.24/2330	23.5/63.3	70-80 gusting to 90	Cyclonic Storm
01.09.24/0530	23.4/62.6	65-75 gusting to 85	Cyclonic Storm
01.09.24/1130	23.2/62.0	60-70 gusting to 80	Cyclonic Storm
01.09.24/1730	23.0/61.5	50-60 gusting to 70	Deep Depression
01.09.24/2330	22.6/61.0	40-50 gusting to 60	Depression
02.09.24/1130	21.7/60.1	20-30 gusting to 40	Well Marked Low

Warnings:

(i) Wind warning:

- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail along & off Pakistan during next 24 hours.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over central parts of north Arabian Sea during next 12 hours. It will further decrease thereafter.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph prevailing over northwest Arabian Sea. It would gradually decrease becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph by evening of 1st September and improve thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over central Arabian Sea till 2nd September morning and improve gradually thereafter.
- Strong wind speed reaching 30-40 kmph gusting to 50 kmph is likely along and off Gujarat, Maharashtra and Karnataka coast during next 24 hours.

(ii) Sea condition:

- Squally weather with Rough to very Rough sea conditions is likely along & off Pakistan coast till during next 12 hours.
- Very rough to high sea condition is likely to prevail over central parts of north Arabian Sea during next 12 hours and becoming very rough to rough sea condition from evening of 1st September till morning of 2nd September and improve thereafter.
- Rough sea condition is likely over adjoining westcentral Arabian Sea till 2nd September.

(iii) Fishermen warning:

Fishermen are advised not venture into

- North Arabian Sea and along & off Pakistan coasts till 1st September.
- Adjoining westcentral Arabian Sea till 2nd September.

(b) Depression over north Andhra Pradesh coast, close to southwest of Kalingapatnam

The depression over westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh & South Odisha coasts moved northwestwards with a speed of 6 Kmph during past 6 hours and lay centered at 2330 hours IST of yesterday, the 31st August, 2024 over north Andhra Pradesh coast, close to southwest of Kalingapatnam near latitude 18.2°N and longitude 83.8°E, about 40 km southwest of Kalingapatnam (Andhra Pradesh), 80 km northeast of Visakhapatnam (Andhra Pradesh) and 160 km southwest of Gopalpur (Odisha).

It is likely to continue to move northwestwards and cross north Andhra Pradesh and adjoining south Odisha coasts during between Visakhapatnam and Gopalpur close to Kalingapatnam during next few hours.

Warnings:

(i) Rainfall Warning:

Odisha and Chhattisgarh: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places over south Odisha and south Chhattisgarh during next 24 hours.

Coastal Andhra Pradesh: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall likely during next 24 hours.

Telangana: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall during next 24 hours.

Vidarbha: Light to moderate rainfall at most places with extremely heavy rainfall at isolated places during next 24 hours.

(ii) Wind warning:

- Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral and adjoining Northwest Bay of Bengal during next 24 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail along & off North Andhra Pradesh & south Odisha coasts on during next 24 hours.
- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along and off north Odisha and south Andhra Pradesh coasts on during next 24 hours.

(iii) Sea condition:

- Rough to very rough sea condition is very likely to prevail over Westcentral and adjoining Northwest Bay of Bengal during next 24 hours.
- Rough to very rough sea condition is very likely to prevail along & off North Andhra Pradesh & south Odisha coasts during next 24 hours.

(iv) Fishermen warning:

Fishermen are advised not venture into

- Westcentral & adjoining northwest Bay of Bengal and along & off south Odisha and north Andhra Pradesh Coasts during next 24 hours.

❖ Impact Expected (Andhra Pradesh, south Odisha, Telangana and south Chhattisgarh)

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Breaking of tree branches.
- 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

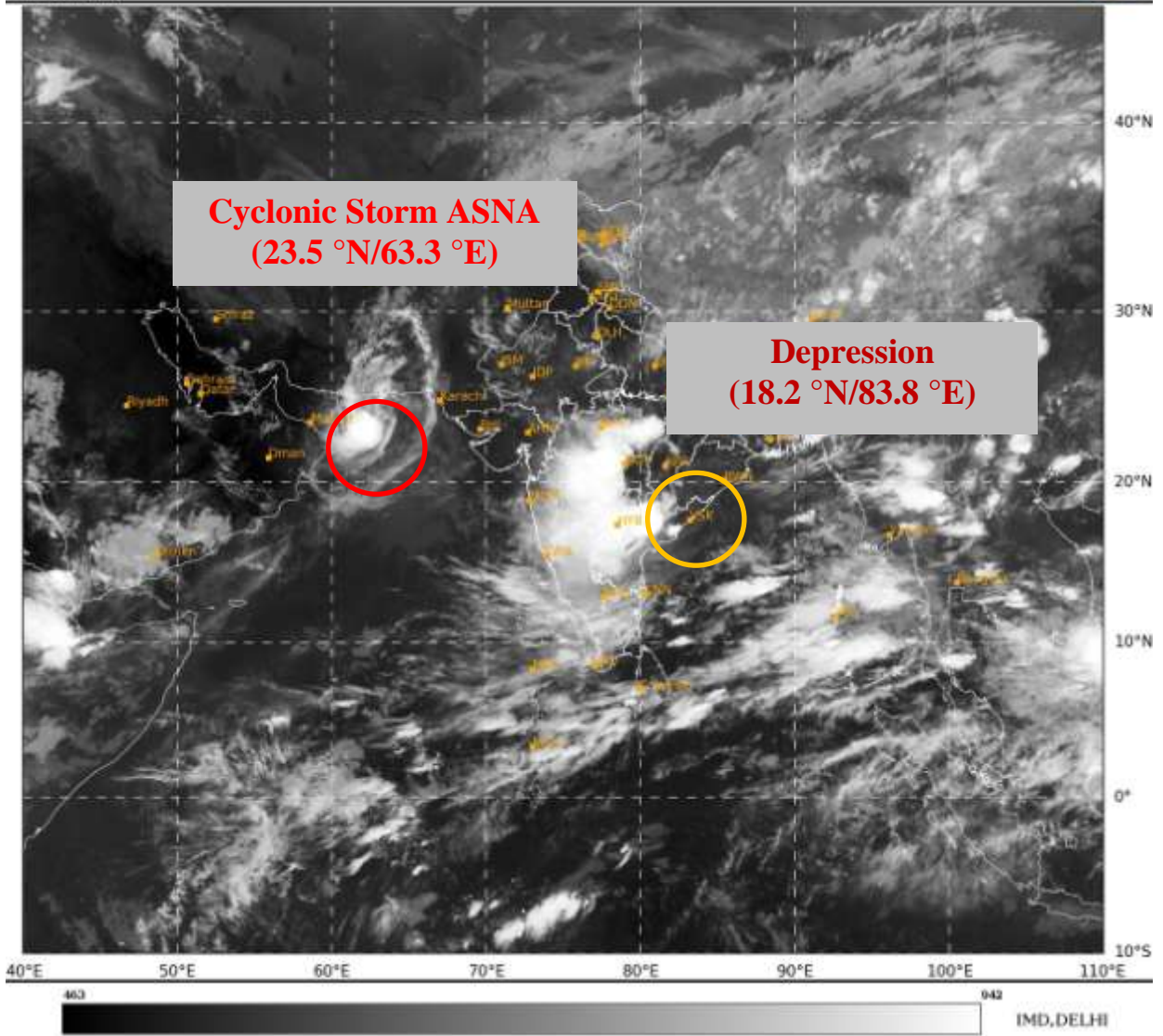
Fishermen are advised not venture into

- Northeast & adjoining eastcentral Arabian Sea off Gujarat coast and along & off Pakistan coasts during next 24 hours.
 - Northwest & adjoining westcentral Arabian Sea and along & off Pakistan and southeast Iran coasts from till 2nd September.
 - Westcentral & adjoining northwest Bay of Bengal and along & off south Odisha and north Andhra Pradesh Coasts during next 24 hours.
 - 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 Odisha and Andhra Pradesh due to both systems
- Make provision for draining out excess water from crop fields to avoid water stagnation in Odisha and Andhra Pradesh.
 - Provide mechanical support to horticultural crops and staking to vegetables.

Next bulletin will be issued at 0530 hours IST of 01st September, 2024.

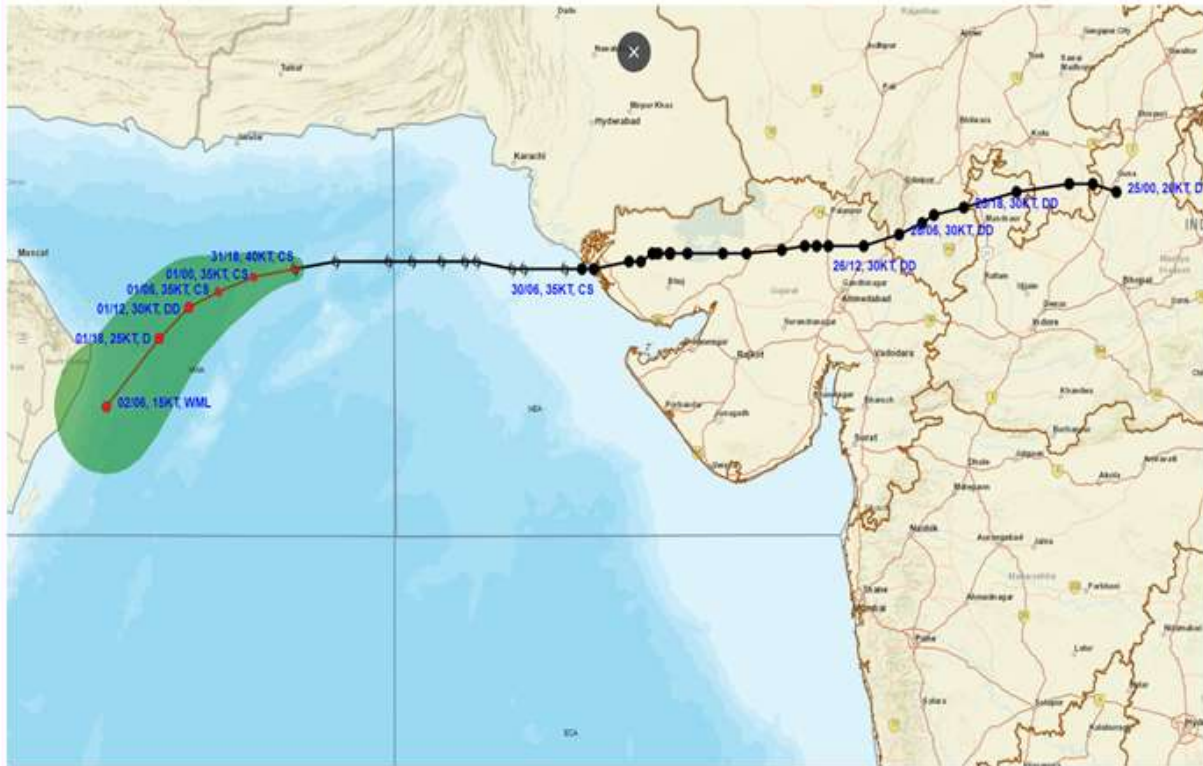
(Shibin Balakrishnan)
Scientist-D, RSMC,
IMD, New Delhi

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





OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER NORTHWEST AND ADJOINING NORTHEAST ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 31st 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 OF CYCLONIC STORM ASNA OVER NORTHWEST AND ADJOINING NORTHEAST ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 31ST AUGUST, 2024.



DATE/TIME IN UTC
IST=UTC + 0530

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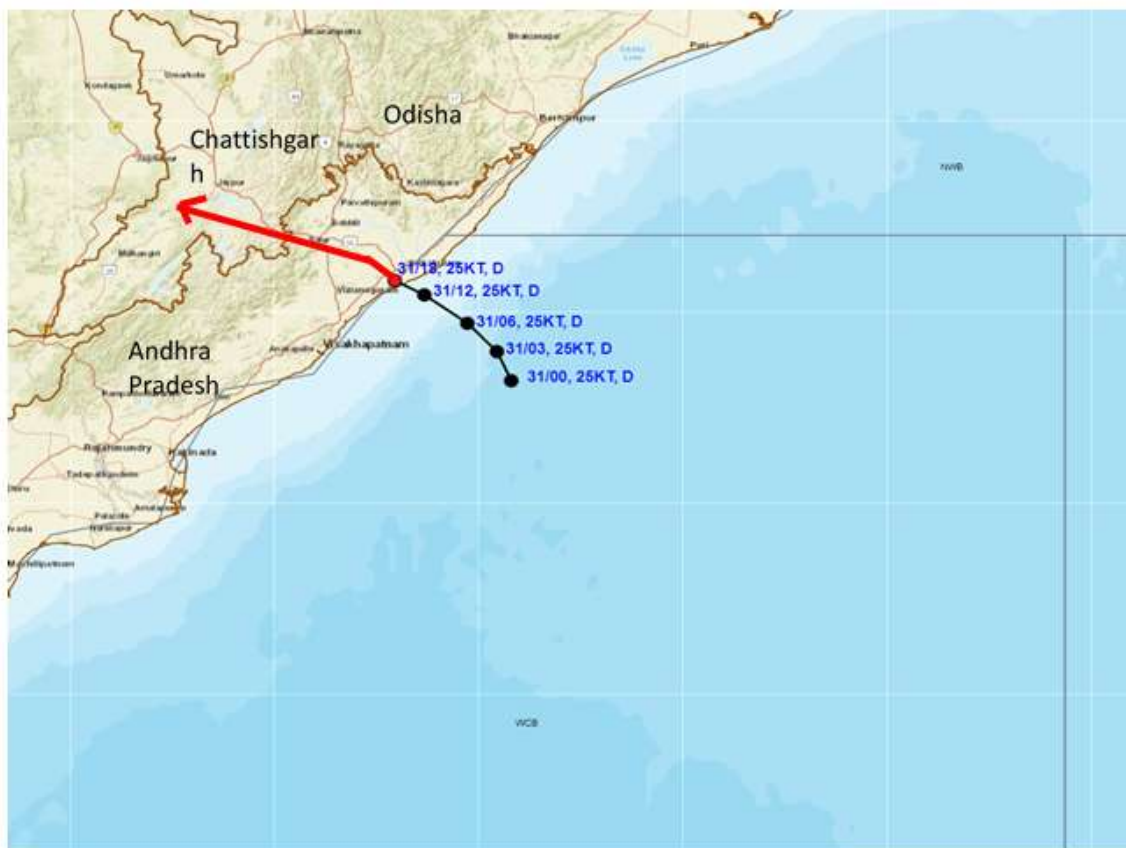
● LESS THAN 34 KT
○ 34-47 KT
● ≥ 48 KT
— OBSERVED TRACK
— FORECAST TRACK
CONE OF UNCERTAINTY
AREA OF MAXIMUM SUSTAINED WIND SPEED:
28-33 KT (52-61 KMPH)
34-49 KT (62-91 KMPH)
50-63 KT (92-117 KMPH)
≥ 64 KT (≥118 KMPH)

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



OBSERVED AND FORECAST TRACK OF DEPRESSION OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 31ST AUGUST, 2024.

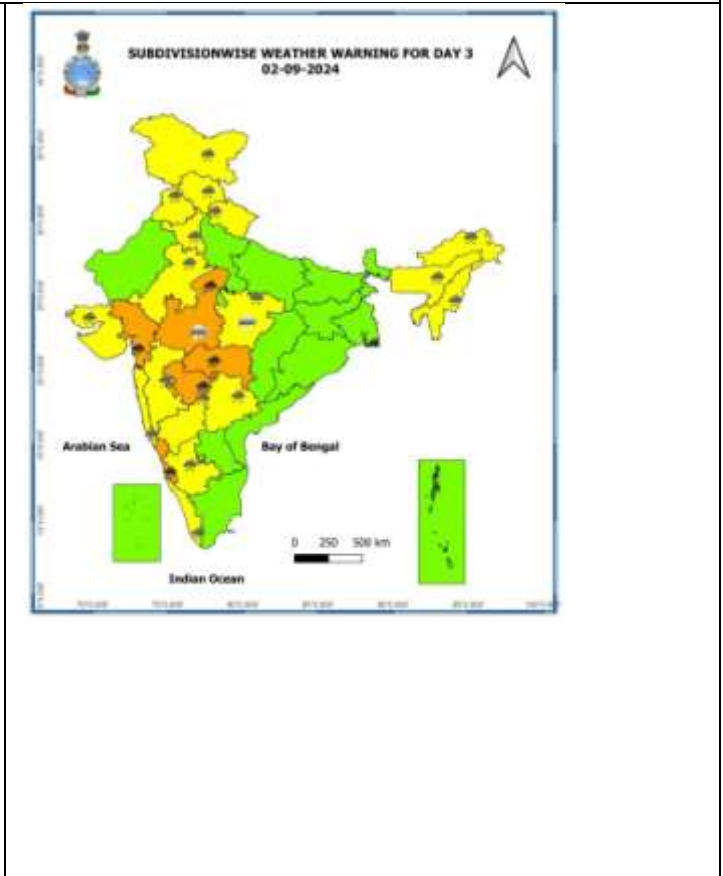
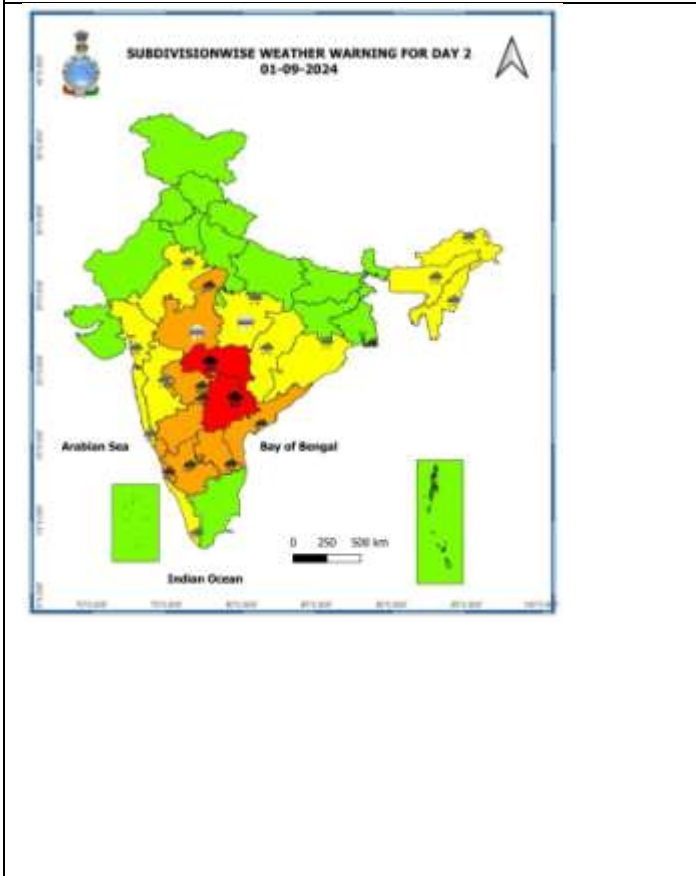
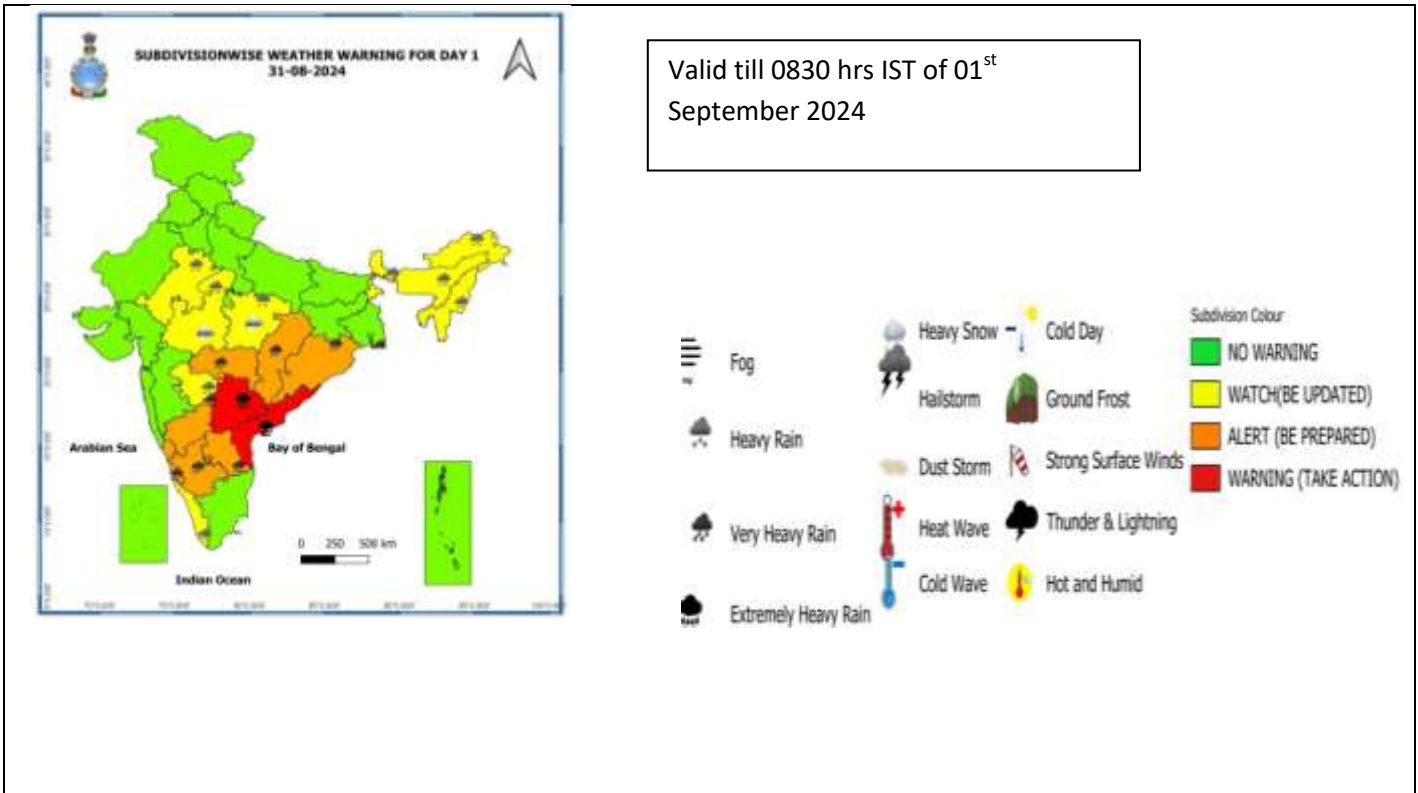


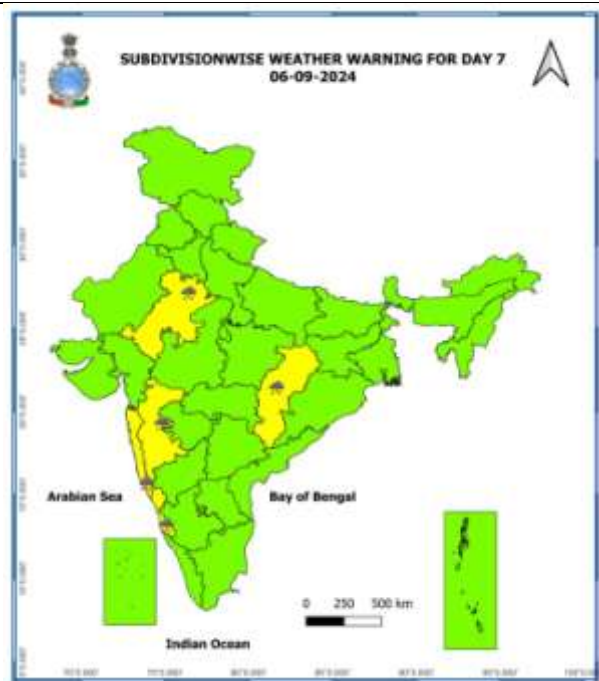
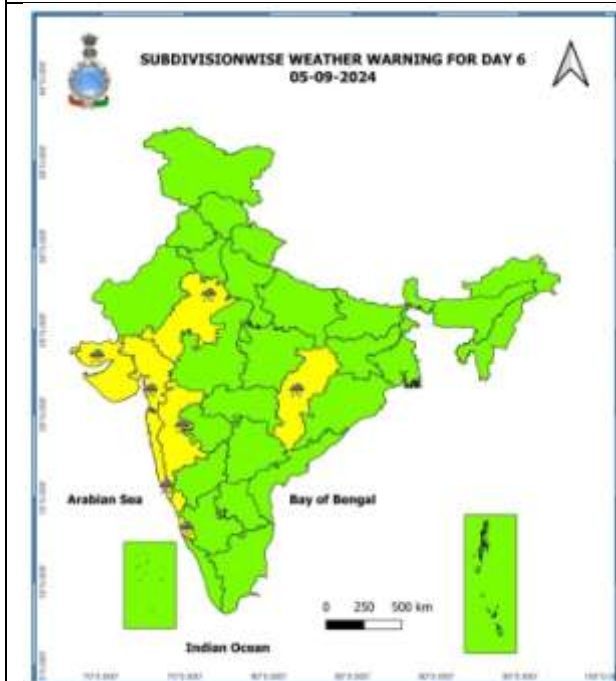
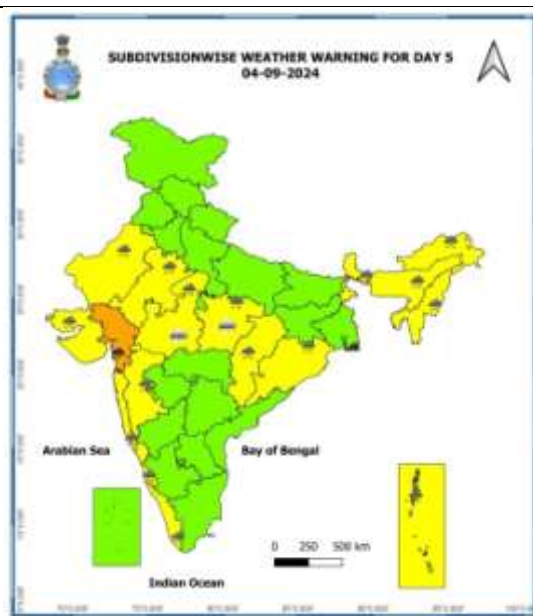
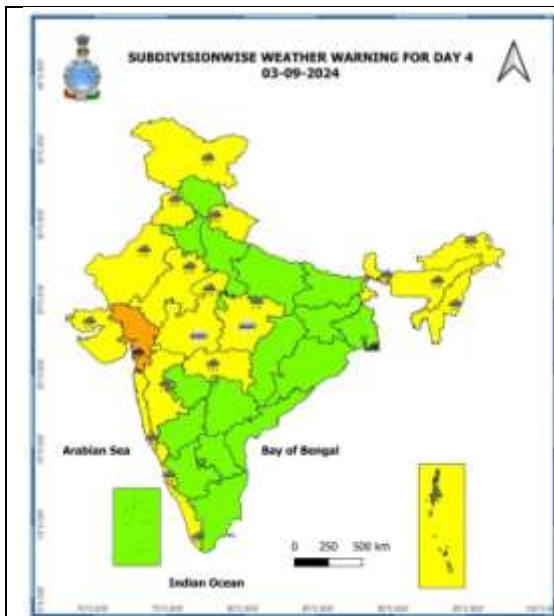
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 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT
 ○ 34-47 KT
 ⊗ \geq 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ▲ CONE OF UNCERTAINTY

WCB: WESTCENTRAL BAY OF BENGAL
 ECB: EASTCENTRAL BAY OF BENGAL
 NWB: NORTHWEST BAY OF BENGAL

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.

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 01-09-2024 :

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

Coastal AP & Yanam - East Godavari, Guntur, Krishna, Prakasam and West Godavari districts.

NI Karnataka - Bidar, Bijapur, Gulbarga, Raichur and Yadgir districts.

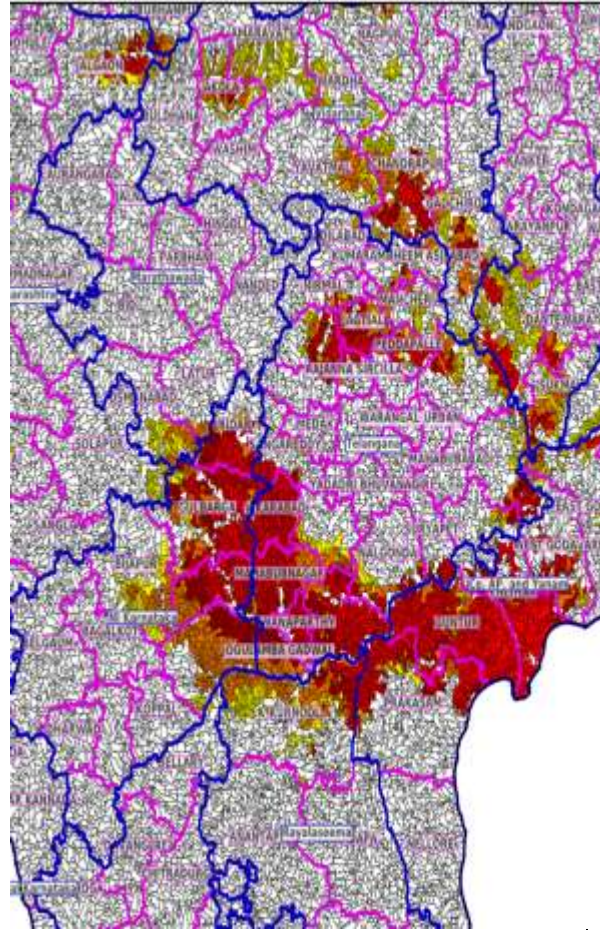
Rayalaseema - Kurnool district.

Telangana - B. Kothagudem, J. Bhupalpally, Jagtial, Jogulamba Gadwal, Khammam, Kumaram Bheem, Mahabubnagar, Mancherial, Nagarkurnool, Nalgonda, Nirmal, Nizamabad, Peddapalle, Rajanna Sircilla, Rangareddy, Sangareddy, Vikarabad and Wanaparthy districts.

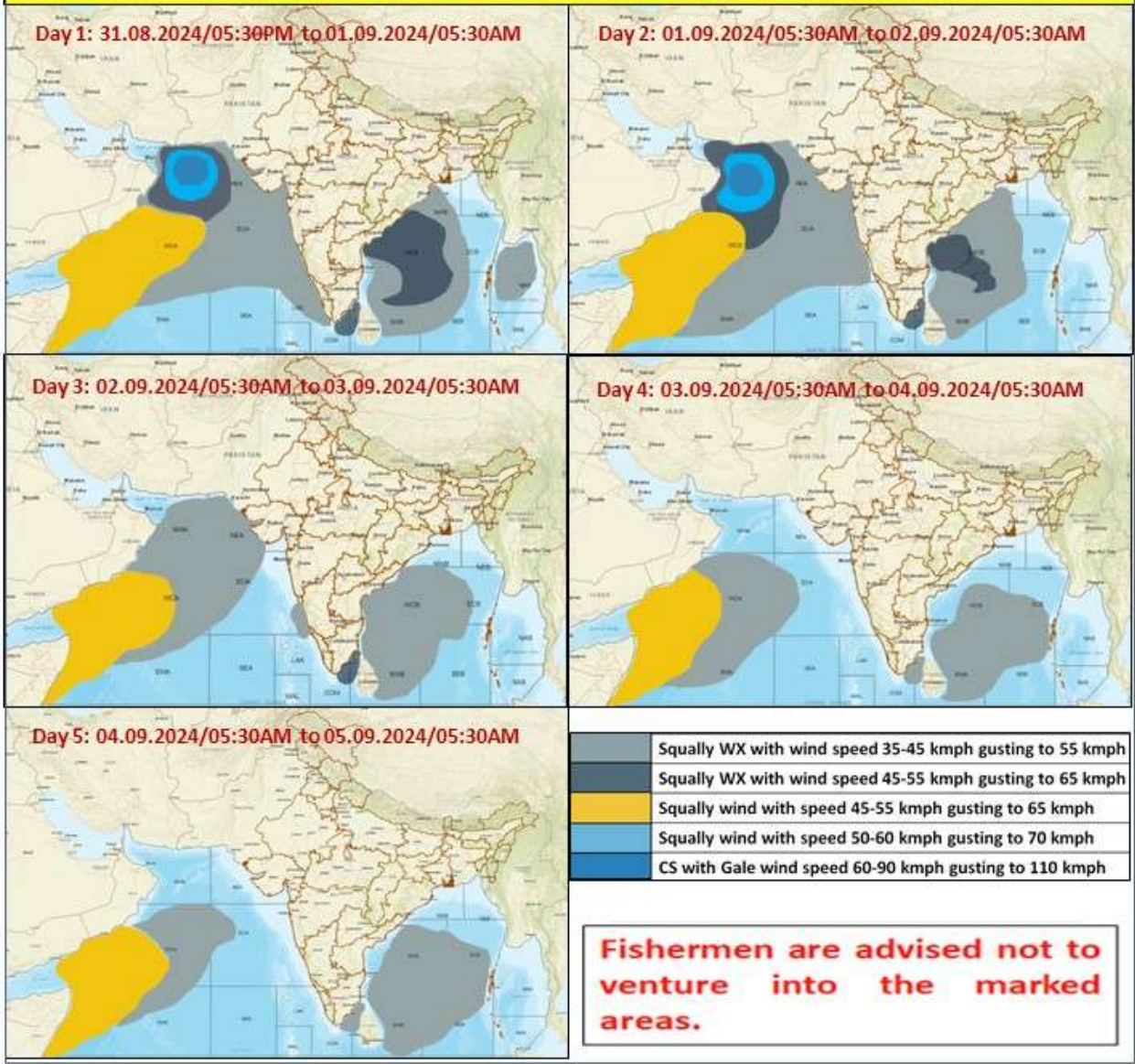
Chhattisgarh - Bijapur, Dantewara, Narayanpur and Sukma districts.

Vidarbha - Akola, Amaravati, Chandrapur, Gadchiroli, Wardha and Yavatmal districts.

Product: GFS FFR | Timescale: 24-hr | Region: "REGIONAL"
Product Date: 2024-08-31 12:00 UTC | Valid Date: 2024-09-01 12:00 UTC



Fishermen Warning Graphics



Annexure –I

Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of yesterday, 31st August) (in cm):

Coastal Andhra Pradesh & Yanam: SRM University (Guntur) 28, Amaravati 26, Inavolu (Guntur), NTR & Chandrala 22 each, MarketYard_Chenchupeta_ARG18, R&B_Bungalow_ARG 15, Nandigama 14, Bapatla & Gannavaram 11 each, Rentachintala 9, Ongole 6, Machilipatnam 5, Vishakhapatnam & Narsapur 2each;

Telangana : Hanamkonda & Khammam 3 each, Mahabubnagar 2;

***Madhya Pradesh:** Ujjain & Nowgong 2 each;

Vidarbha : Gadchiroli & Gondia 2 each;

Madhya Maharashtra: Jalgaon 2;

Gujarat state: Surat & Bhavnagar 2 each;

North Interior Karnataka: Raichur & Kalaburagi 2 each;