



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

NATIONAL BULLETIN NO. 38 (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 central parts of North Arabian Sea and (b) Depression over Westcentral & adjoining Northwest Bay of Bengal.

(a) Cyclonic Storm "ASNA" (pronounced as As-Na) over central parts of North Arabian Sea

The **Cyclonic Storm "ASNA" (pronounced as As-Na)** over northeast & adjoining northwest Arabian Sea moved westwards with a speed of 15 kmph during past 6 hours and lay centered at 1730 hours IST of 31st August, 2024 over central parts of North Arabian Sea near latitude 23.6°N and longitude 64.0°E, 500 km west of Naliya (Gujarat), 350 km west-southwest of Karachi (Pakistan), 190 km south-southeast of Pasni (Pakistan) and 580 km east of Muscat (Oman).

It is likely to continue to move nearly westwards over north Arabian Sea and maintain its intensity till morning of 1st September. Thereafter, it is likely to move west-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
31.08.24/1730	23.6/64.0	70-80 gusting to 90	Cyclonic Storm
31.08.24/2330	23.6/64.0	70-80 gusting to 90	Cyclonic Storm
01.09.24/0530	23.5/62.6	65-75 gusting to 85	Cyclonic Storm
01.09.24/1130	23.3/61.9	60-70 gusting to 80	Cyclonic Storm
01.09.24/1730	23.0/61.4	50-60 gusting to 70	Deep Depression
02.09.24/0530	22.3/60.9	40-50 gusting to 60	Depression

Warnings:

(i) Wind warning:

- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing along & off Pakistan till 1st September.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph prevailing over central parts of north Arabian Sea during night of 31st August and decrease gradually thereafter becoming squally wind speed reaching 40-50 kmph gusting to 60 kmph by morning of 1st September. It will further decrease thereafter.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph prevailing over adjoining 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 adjoining central Arabian Sea till 2nd September morning and improve gradually thereafter.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely along & off Saurashtra & Kachchh coasts on 31st August.
- Strong wind speed reaching 30-40 kmph gusting to 50 kmph is likely along and off Maharashtra & Karnataka coasts on 31st August & 1st September and along & off Gujarat coast on 1st September.

(ii) Sea condition:

- Squally weather with Rough to very Rough sea conditions is likely along & off Pakistan coast till 1st September morning.
- Very rough to high sea condition is likely to prevail over central parts of north Arabian Sea during 31st August till 1st September afternoon 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

- Northeast & adjoining Eastcentral Arabian Sea along & off Gujarat & adjoining north Maharashtra Coasts till 31st August.
- North Arabian Sea and along & off Pakistan coasts till 1st September.
- Adjoining westcentral Arabian Sea till 2nd September.

(b) Depression over Westcentral & adjoining Northwest Bay of Bengal

The depression over westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh & South Odisha coasts moved northwestwards with a speed of 07 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 31st August, 2024 over the same region near latitude 18.1°N and longitude 84.0°E, about 30 km south-southwest of Kalingapatnam (Andhra Pradesh), 90 km east-northeast of Visakhapatnam (Andhra Pradesh) and 160 km Southwest of Gopalpur (Odisha).

It is likely to move further northwestwards and cross north Andhra Pradesh and adjoining south Odisha coasts between Visakhapatnam and Gopalpur close to Kalingapatnam during night of today, the 31st August 2024.

Warnings:

(i) Rainfall Warning:

Odisha and Chhattisgarh: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places on 31st August & 1st September over south Odisha and south Chhattisgarh.

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

Telangana: Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places on 31st August and isolated heavy to very heavy rainfall on 1st September.

Vidarbha: Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places on 31st August & 1st September and extremely heavy rainfall at isolated places on 1st September.

(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 on 31st August and 1st September.
- 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 and 1st September.
- 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 31st August and 1st September.

(iii) Sea condition:

- Rough to very rough sea condition is very likely to prevail over Westcentral and adjoining Northwest Bay of Bengal on 31st August and 1st September.
- Rough to very rough sea condition is very likely to prevail along & off North Andhra Pradesh & south Odisha coasts on 31st August and 1st September.

(iv) Fishermen warning:

Fishermen are advised not venture into

- Westcentral & adjoining northwest Bay of Bengal till 1st September and along & off south Odisha and north Andhra Pradesh Coasts till 1st September.

❖ 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 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 and southeast Iran coasts from 31st August till 2nd September.
- Westcentral & adjoining northwest Bay of Bengal till 1st September and along & off south Odisha and north Andhra Pradesh Coasts till 1st September.
- 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.

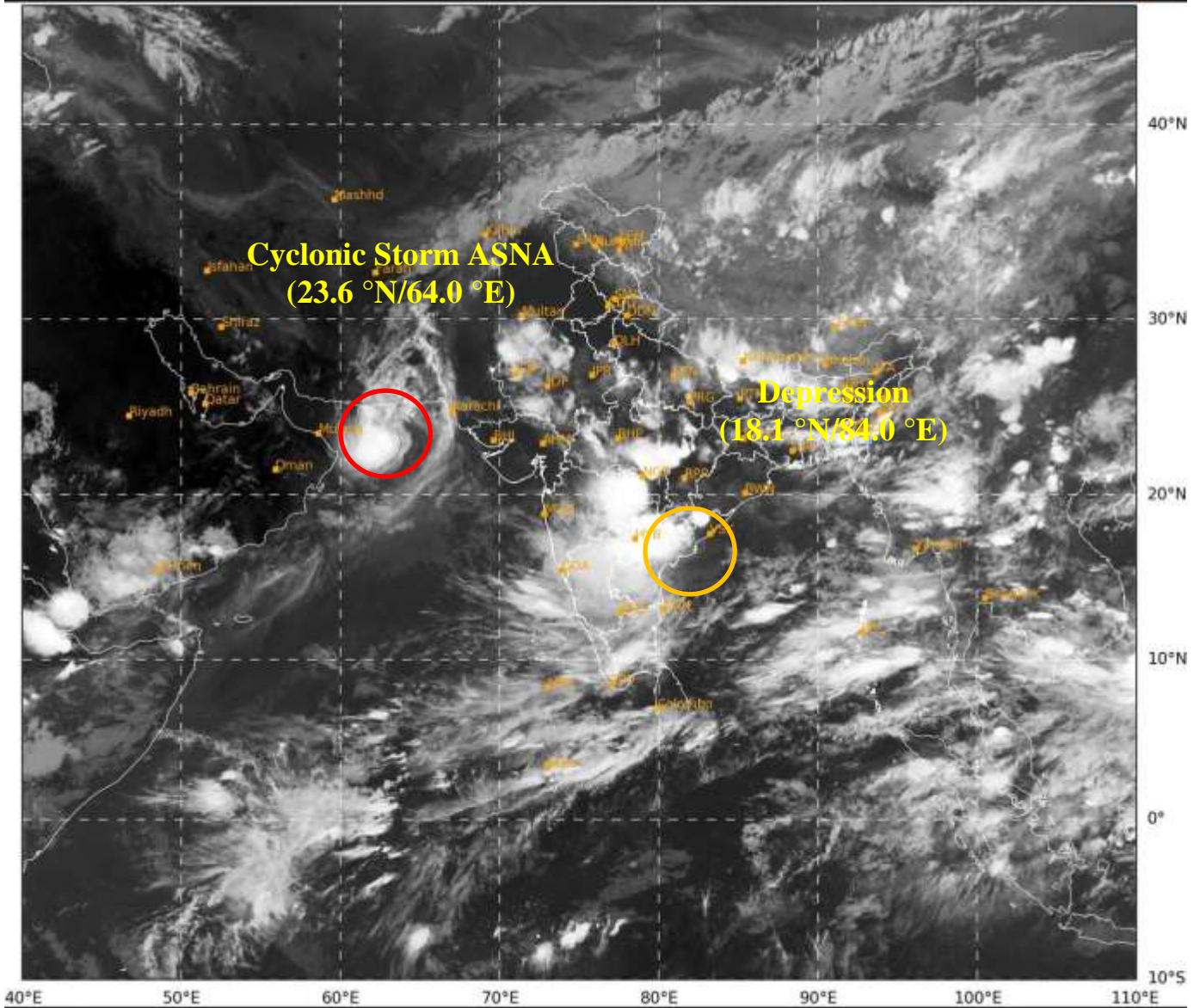
❖ **Agromet Advisories for Heavy Rainfall** likely over Odisha and Andhra Pradesh due to both systems

- 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 2330 hours IST of 31st August, 2024.

(Dr. D. R. Pattanaik)
Scientist-F, 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



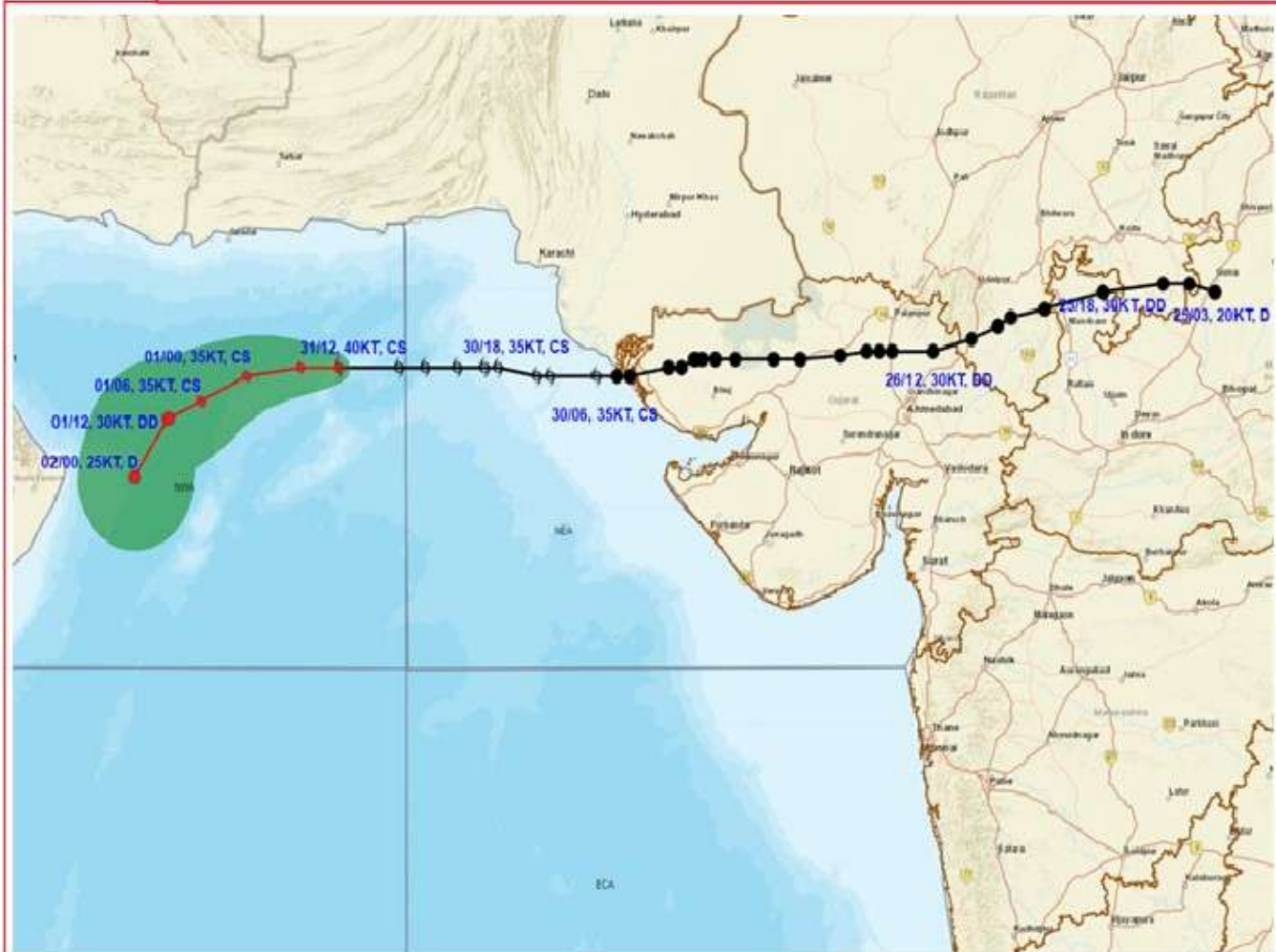
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IMD, DELHI



OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER CENTRAL PART OF NORTH ARABIAN SEA BASED ON 1200 UTC (1730 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 (\geq 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

⊖ \geq 48 KT

— OBSERVED TRACK

— FORECAST TRACK

● CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER CENTRAL PART OF NORTH ARABIAN SEA BASED ON 1200 UTC (1730 IST) OF 31st AUGUST, 2024.



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

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SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

● \geq 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)

— \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations



OBSERVED AND FORECAST TRACK OF DEPRESSION OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL BASED ON 1200 UTC (1730 IST) OF 31ST AUGUST, 2024.

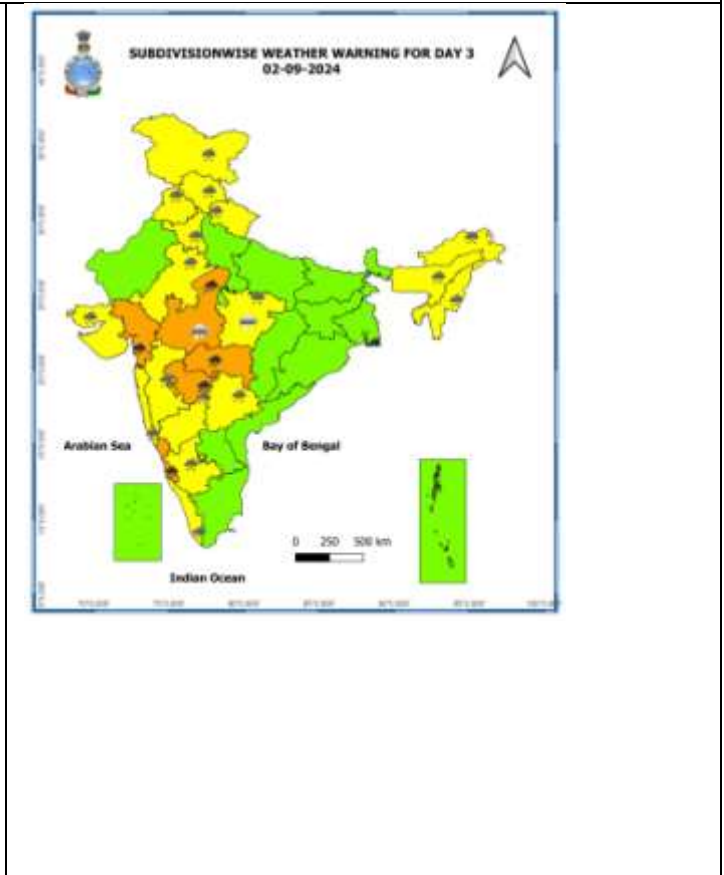
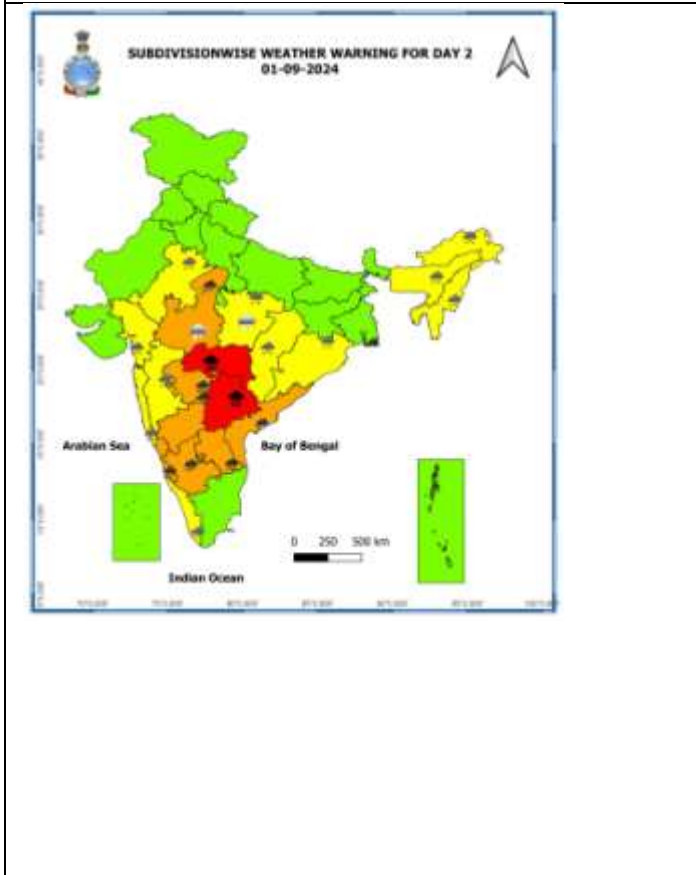
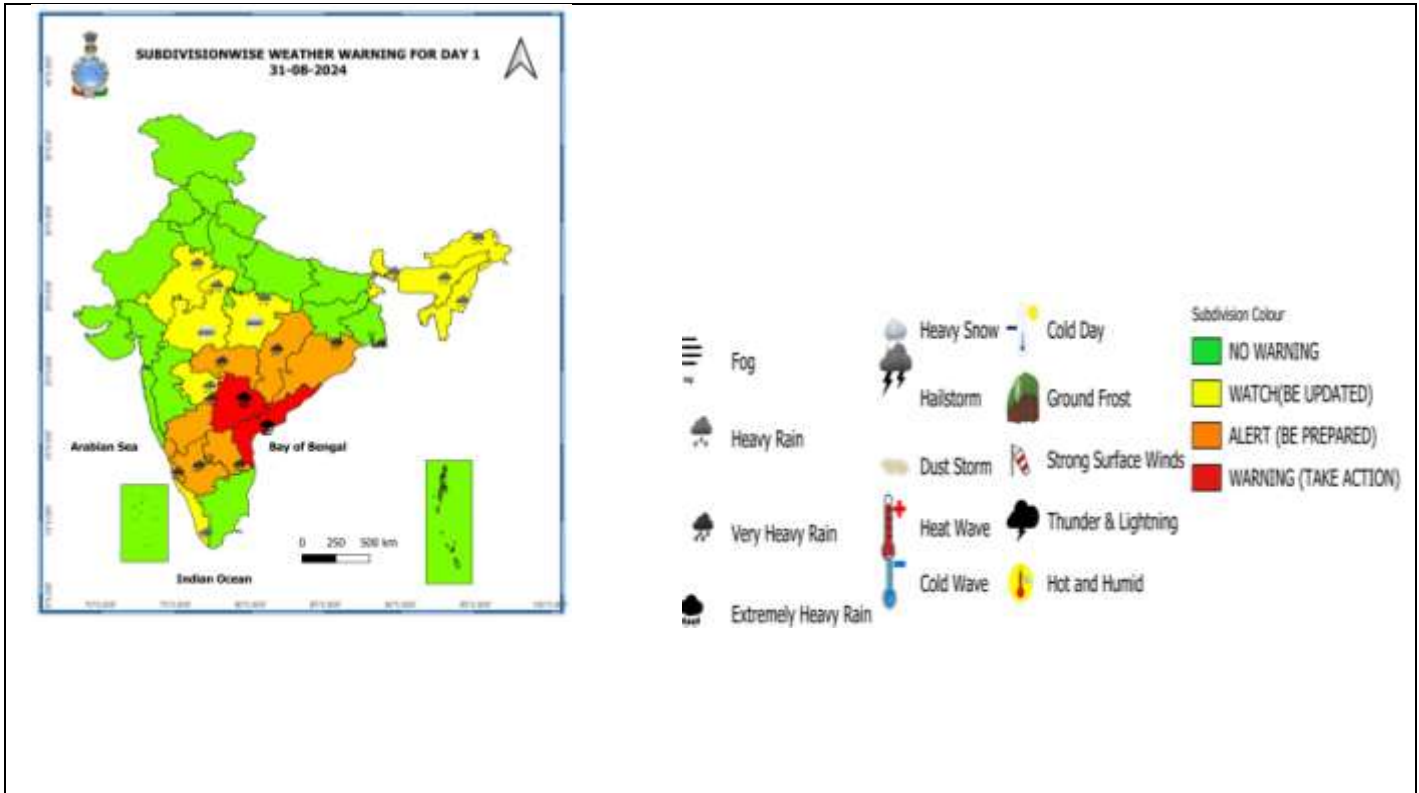


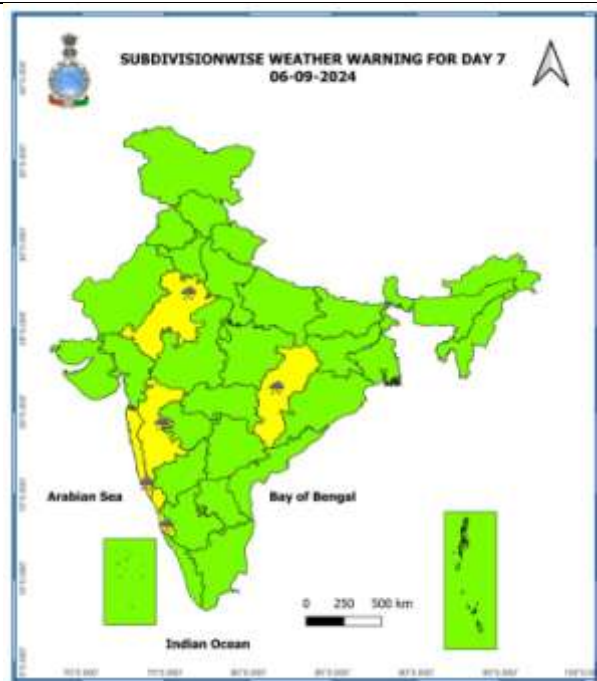
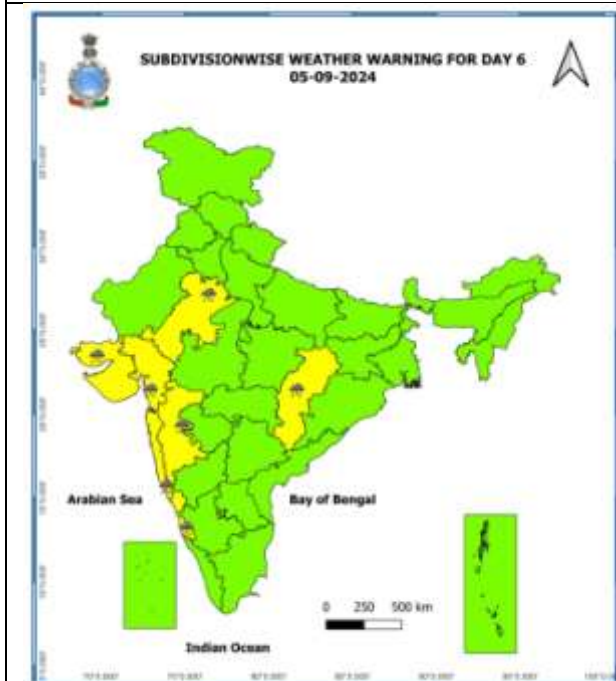
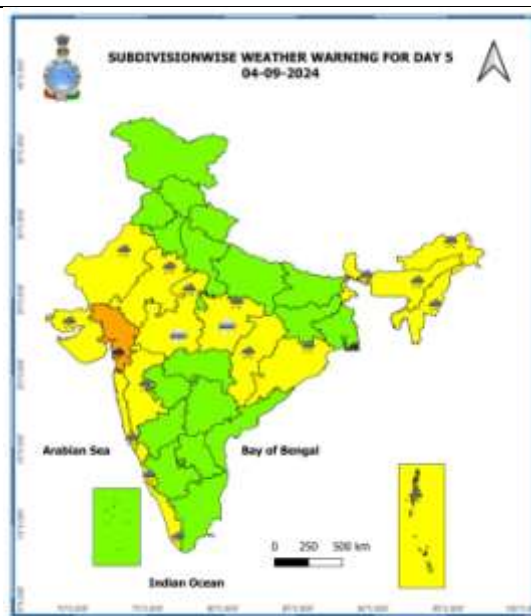
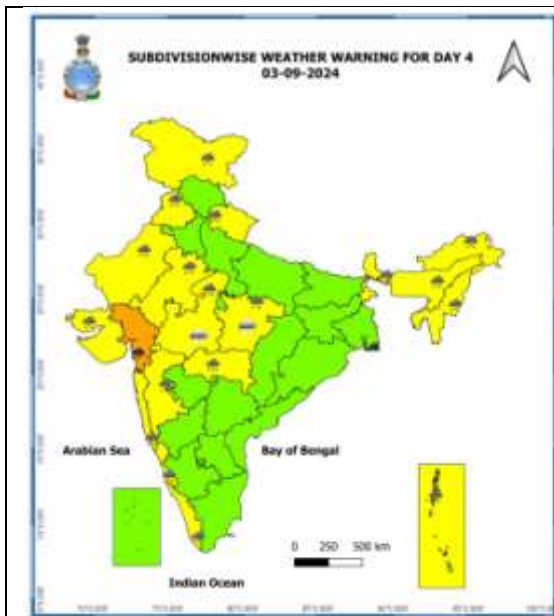
DATE/TIME IN UTC
IST=UTC + 0530
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WML: WELL MARKED LOW PRESSURE AREA
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VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT
○ 34-47 KT
○ ≥ 48 KT
— OBSERVED TRACK
— FORECAST TRACK
● CONE OF UNCERTAINTY

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 1130 IST of 01-09-2024 :

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

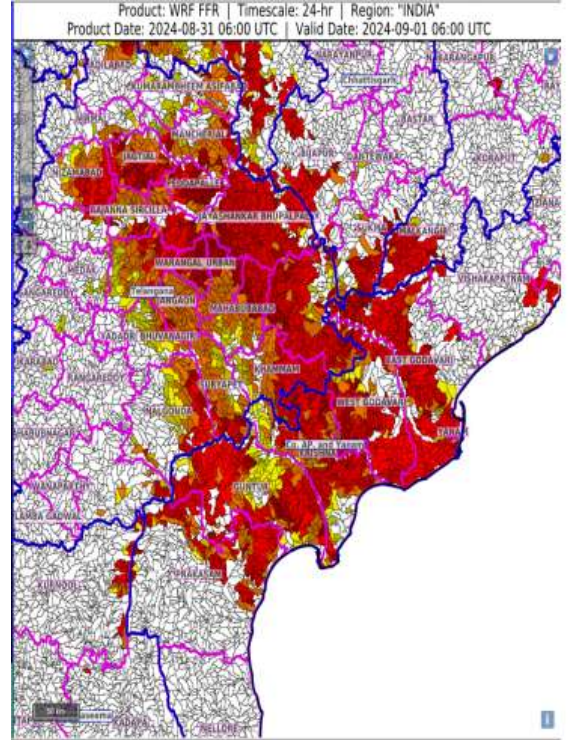
Coastal AP & Yanam - East Godavari, Guntur, Krishna, Prakasam, West Godavari, Visakhapatnam and Yanam districts.

Rayalaseema - Kurnool district.

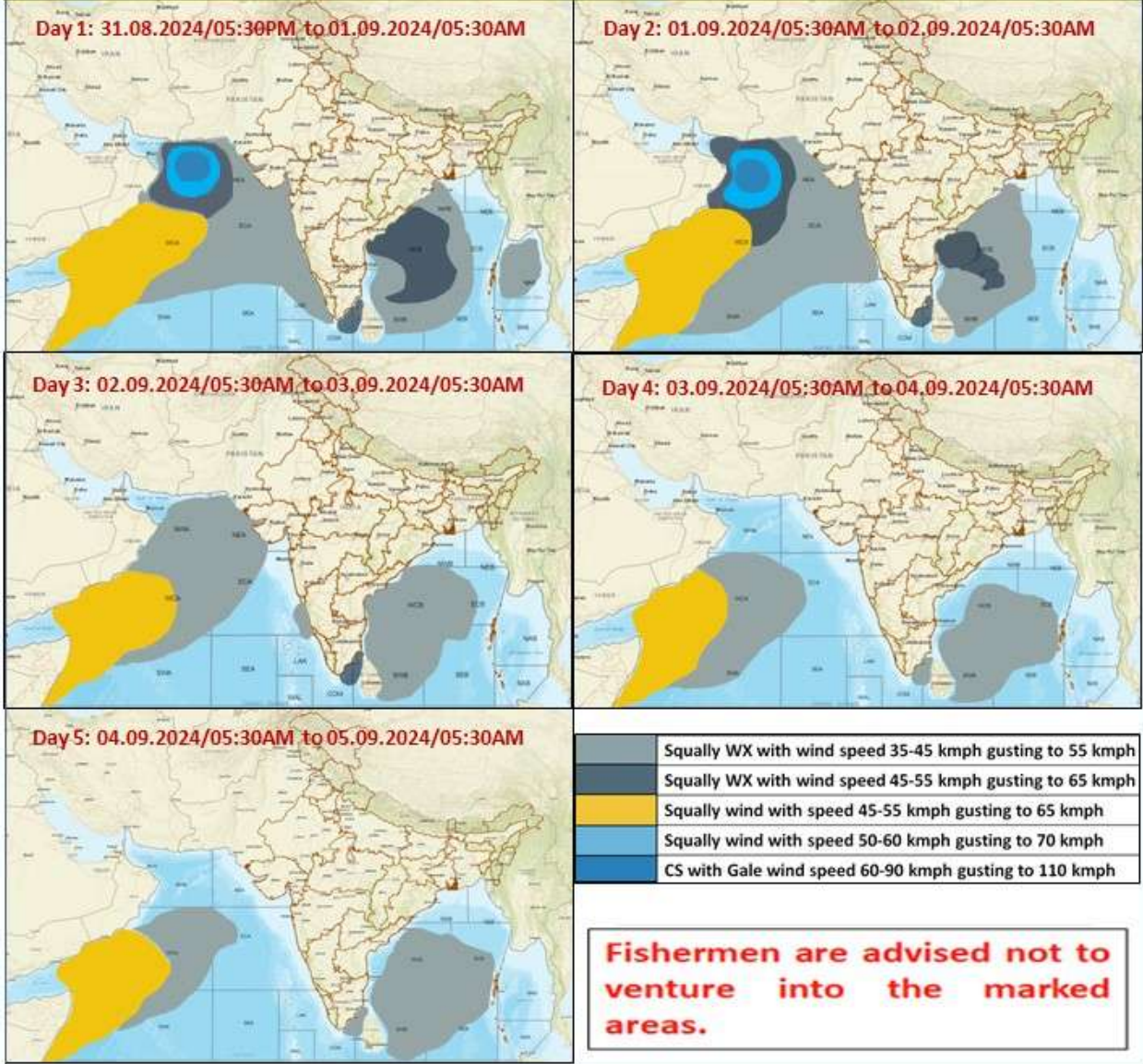
Telangana - Adilabad, B. Kothagudem, J. Bhupalpally, Jagtial, Jangaon, Khammam, Kumaram Bheem, Mahabubabad, Mancherial, Nalgonda, Nirmal, Nizamabad, Peddapalle, Rajanna Sircilla, Siddipet, Suryapet, Warangal_Rural and Warangal_Urban districts.

Chhattisgarh - Bijapur and Sukma 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



Annexure –I

Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of today, 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;