



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

**NATIONAL BULLETIN NO. 41 (LAND/02/2024)**

**TIME OF ISSUE: 0530 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 crossed north Andhra Pradesh and south Odisha coast, near to Kalingapatnam between 0030 hrs and 0230 hrs IST of 01<sup>st</sup> September 2024**

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

The **Cyclonic Storm "ASNA" (pronounced as As-Na)** over northwest and adjoining northeast Arabian Sea moved west-southwestwards with a speed of 12 kmph during past 6 hours and lay centered at 0230 hours IST of today, the 01<sup>st</sup> September, 2024 over the same region near latitude 23.4°N and longitude 63.0°E, 600 km west of Naliya (Gujarat), 450 km west-southwest of Karachi (Pakistan), 210 km south-southwest of Pasni (Pakistan) and 480 km east of Muscat (Oman).

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

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>
31.08.24/0230	23.4/63.0	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 1<sup>st</sup> September and improve thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over central Arabian Sea till 2<sup>nd</sup> 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 1<sup>st</sup> September till morning of 2<sup>nd</sup> September and improve thereafter.
- Rough sea condition is likely over adjoining westcentral Arabian Sea till 2<sup>nd</sup> September.

#### **(iii) Fishermen warning:**

Fishermen are advised not venture into

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

#### **(b) Depression crossed north Andhra Pradesh and south Odisha coast, near to Kalingapatnam between 0030 hrs and 0230 hrs IST of 01<sup>st</sup> September 2024.**

The depression over north Andhra and south Odisha coasts moved northwestwards with a speed of 10 Kmph during the past 6 hours, crossed north Andhra Pradesh & south Odisha coasts near Kalingapatnam between 0030 and 0230 hrs IST of 01<sup>st</sup> September and lay centered at 0230 hours IST of today, the 01<sup>st</sup> September, 2024 over north Coastal Andhra Pradesh near latitude 18.4°N and longitude 83.5°E, about 70 km west of Kalingapatnam (Andhra Pradesh), 80 km north-northeast of Visakhapatnam (Andhra Pradesh) and 170 km southwest of Gopalpur (Odisha).

It is likely to continue to move northwestwards across north Andhra Pradesh & adjoining south Odisha, Chhattisgarh and Telangana during the next 24 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 12 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail along & off North Andhra Pradesh & south Odisha coasts during next 12 hours.

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

- Rough sea condition is very likely to prevail over Westcentral and adjoining Northwest Bay of Bengal during next 12 hours.
- Rough sea condition is very likely to prevail along & off North Andhra Pradesh & south Odisha coasts during next 12 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 on today, the 1<sup>st</sup> 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**

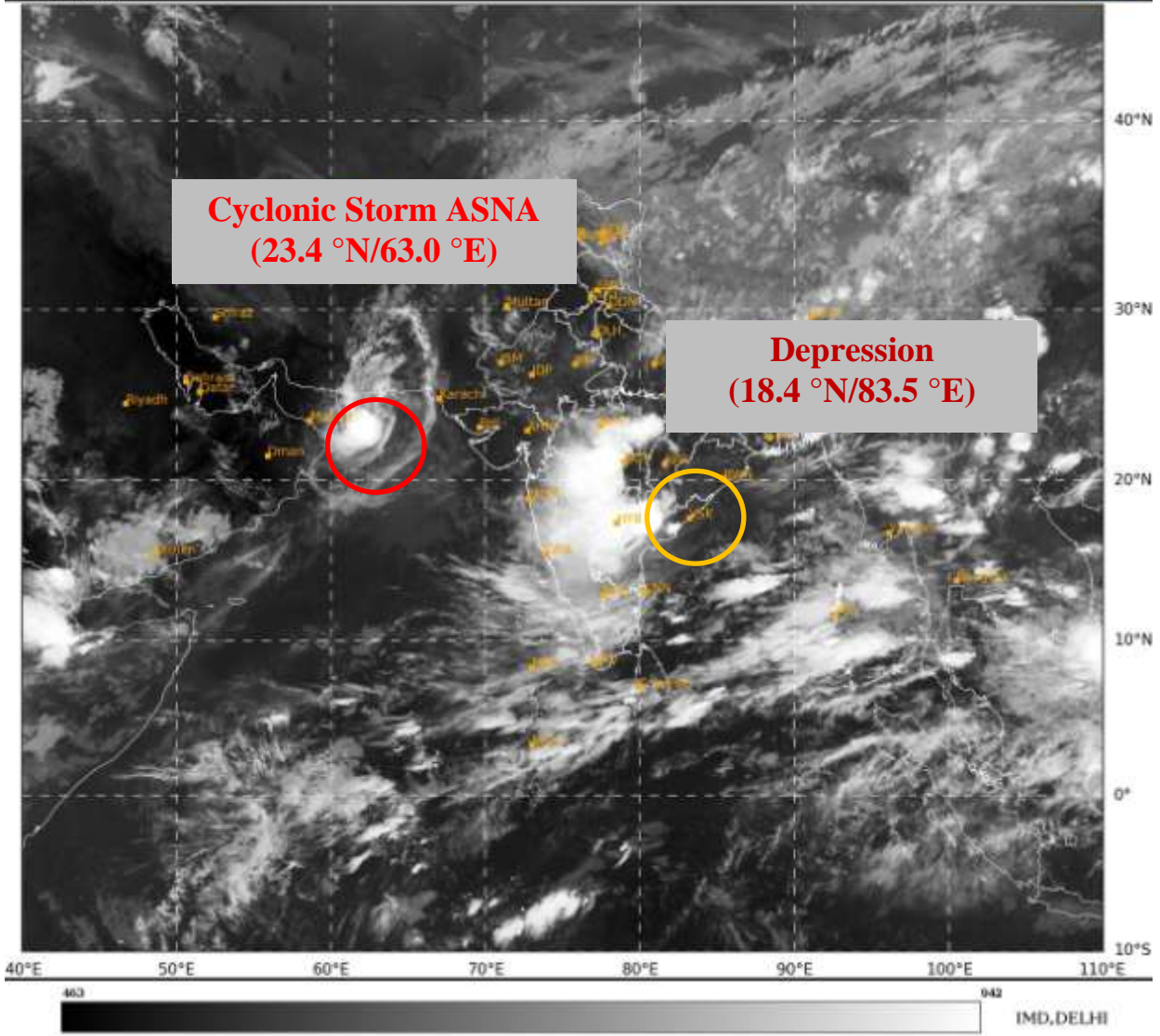
Fishermen are advised not venture into

- Northeast & adjoining eastcentral Arabian Sea 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 2<sup>nd</sup> 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 0830 hours IST of 01<sup>st</sup> September, 2024.**

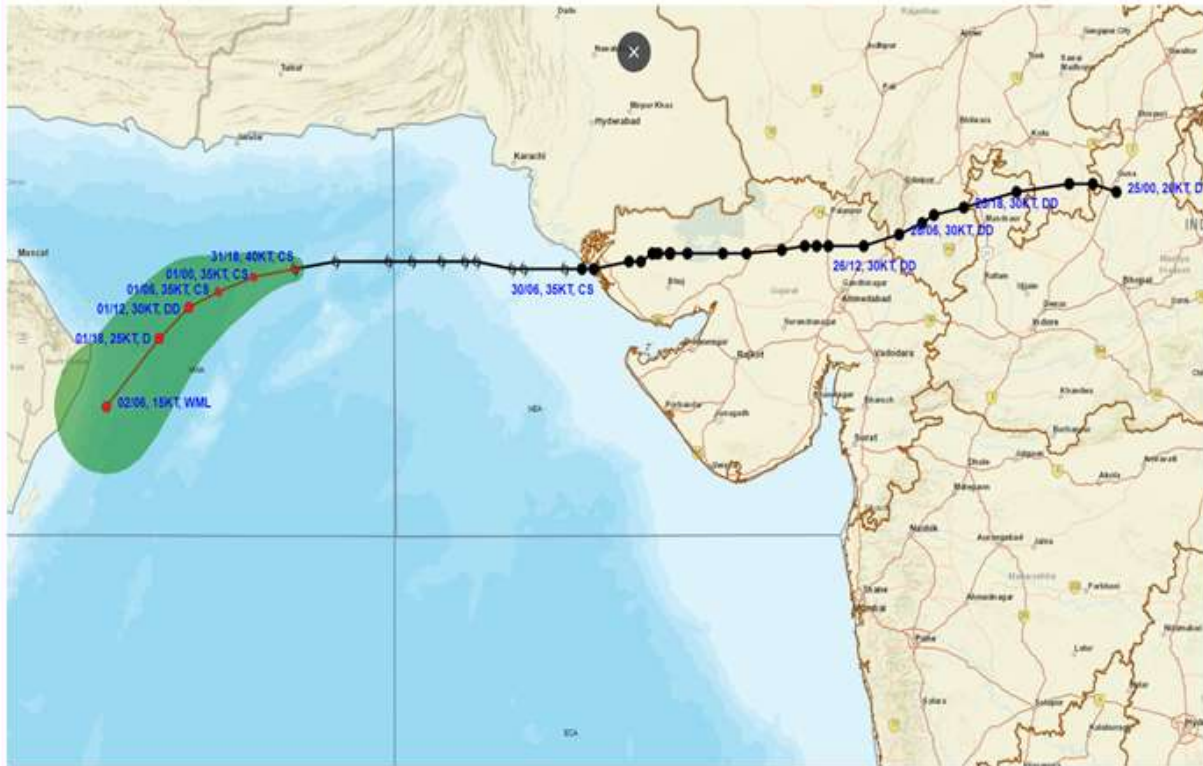
**(Shibin Balakrishnan)  
Scientist-D, RSMC,  
IMD, New Delhi**

*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 31<sup>st</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 OF CYCLONIC STORM ASNA OVER NORTHWEST AND ADJOINING NORTHEAST ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 31<sup>ST</sup> AUGUST, 2024.**



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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 31<sup>ST</sup> AUGUST, 2024.**



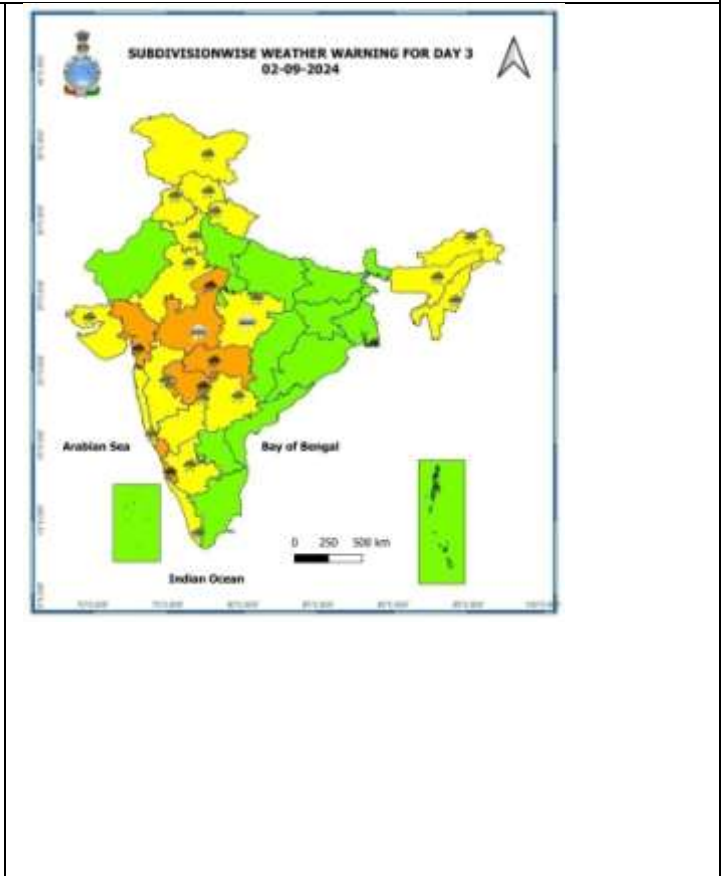
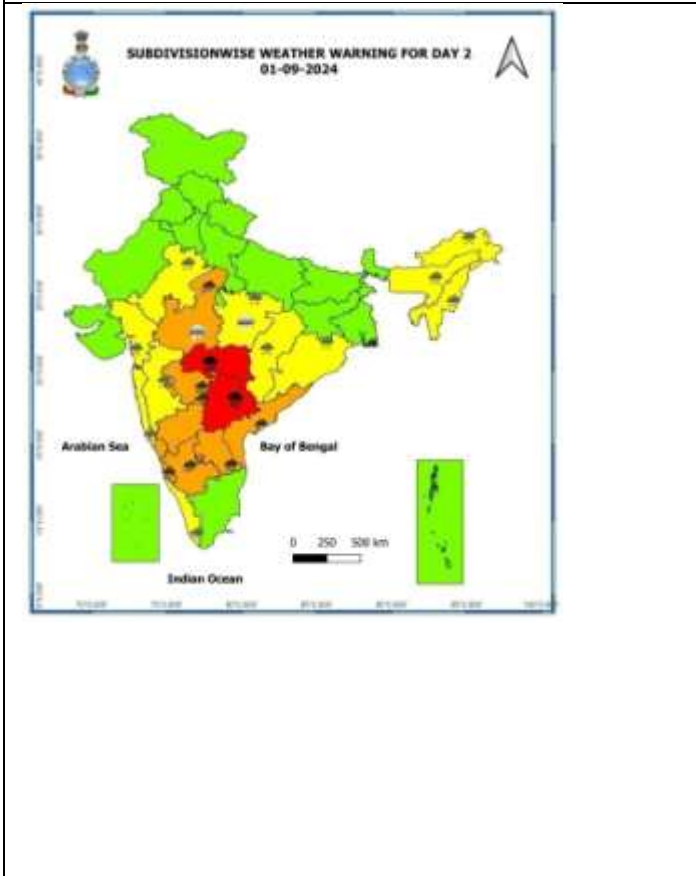
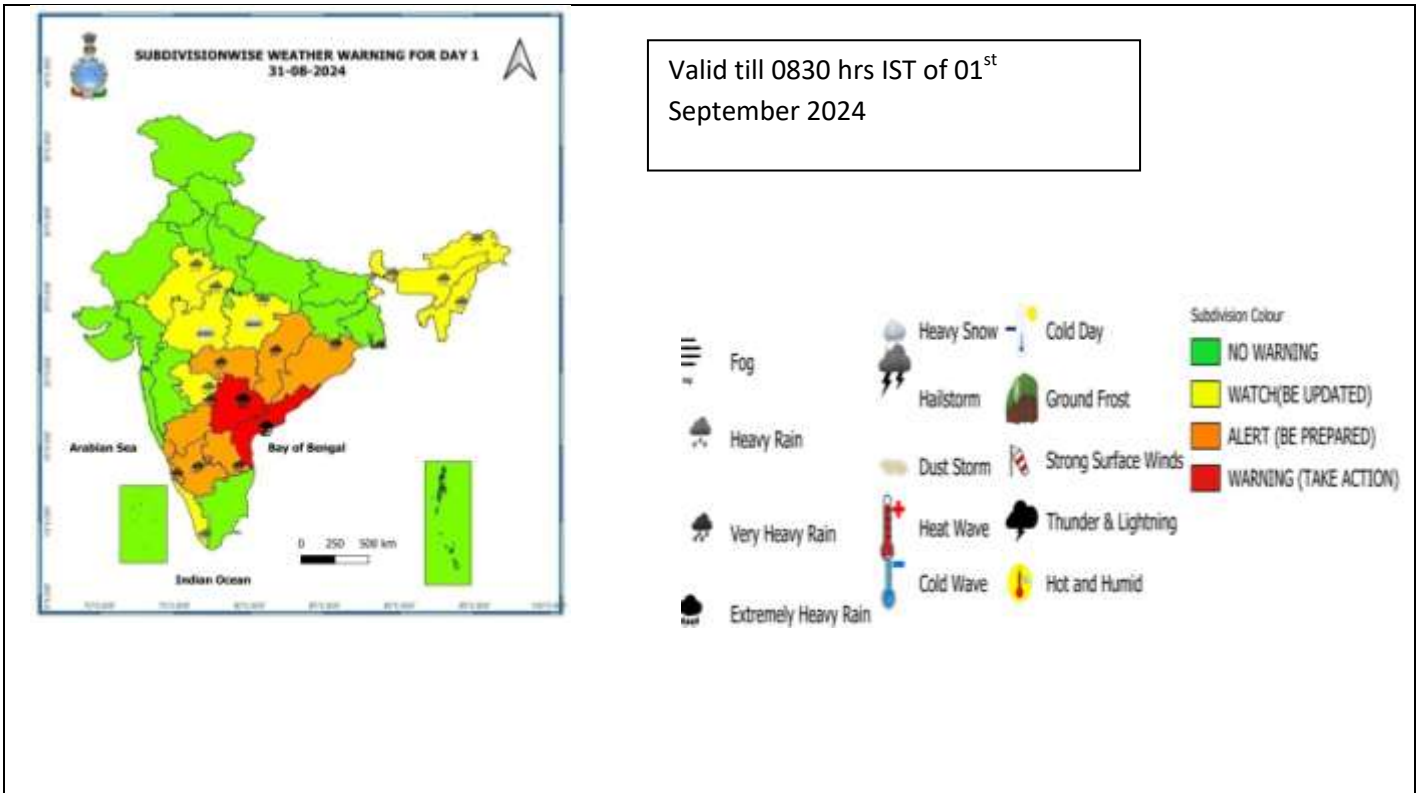
DATE/TIME IN UTC  
IST=UTC + 0530  
L: LOW PRESSURE AREA  
WML: WELL MARKED LOW PRESSURE AREA  
D: DEPRESSION (17-27 KT)  
DD: DEEP DEPRESSION (28-33 KT)  
CS: CYCLONIC STORM (34-47 KT)  
SCS: SEVERE CYCLONIC STORM (48-63KT)  
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
SuCS: SUPER CYCLONIC STORM ( $\geq$  120 KT)

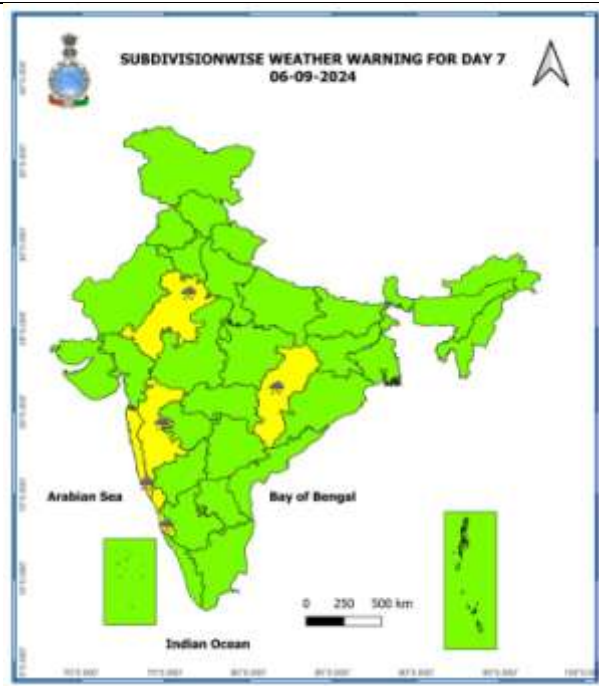
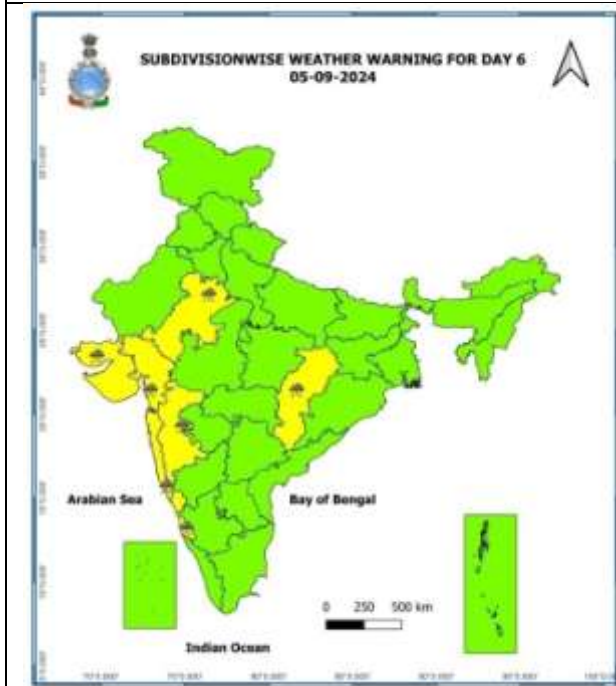
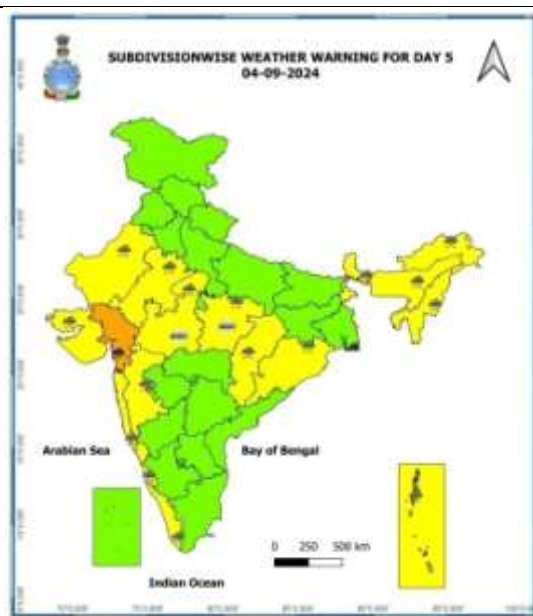
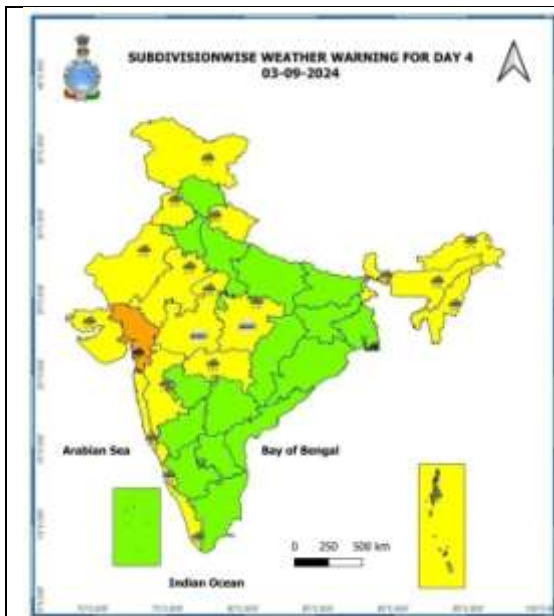
● LESS THAN 34 KT  
○ 34-47 KT  
○  $\geq$  48 KT  
— OBSERVED TRACK  
— FORECAST TRACK  
▲ CONE OF UNCERTAINTY

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.

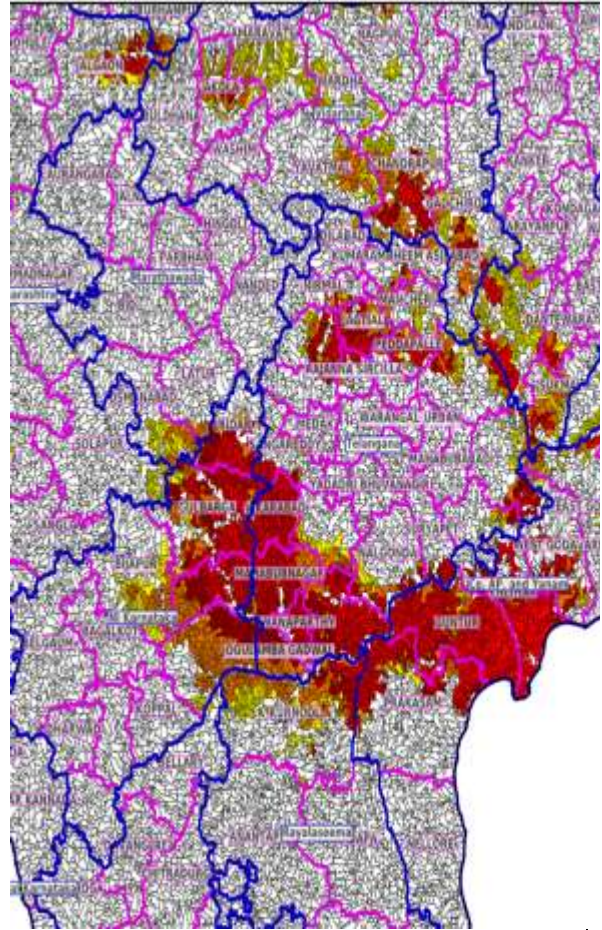
Rayalaseema - Kurnool district.

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.

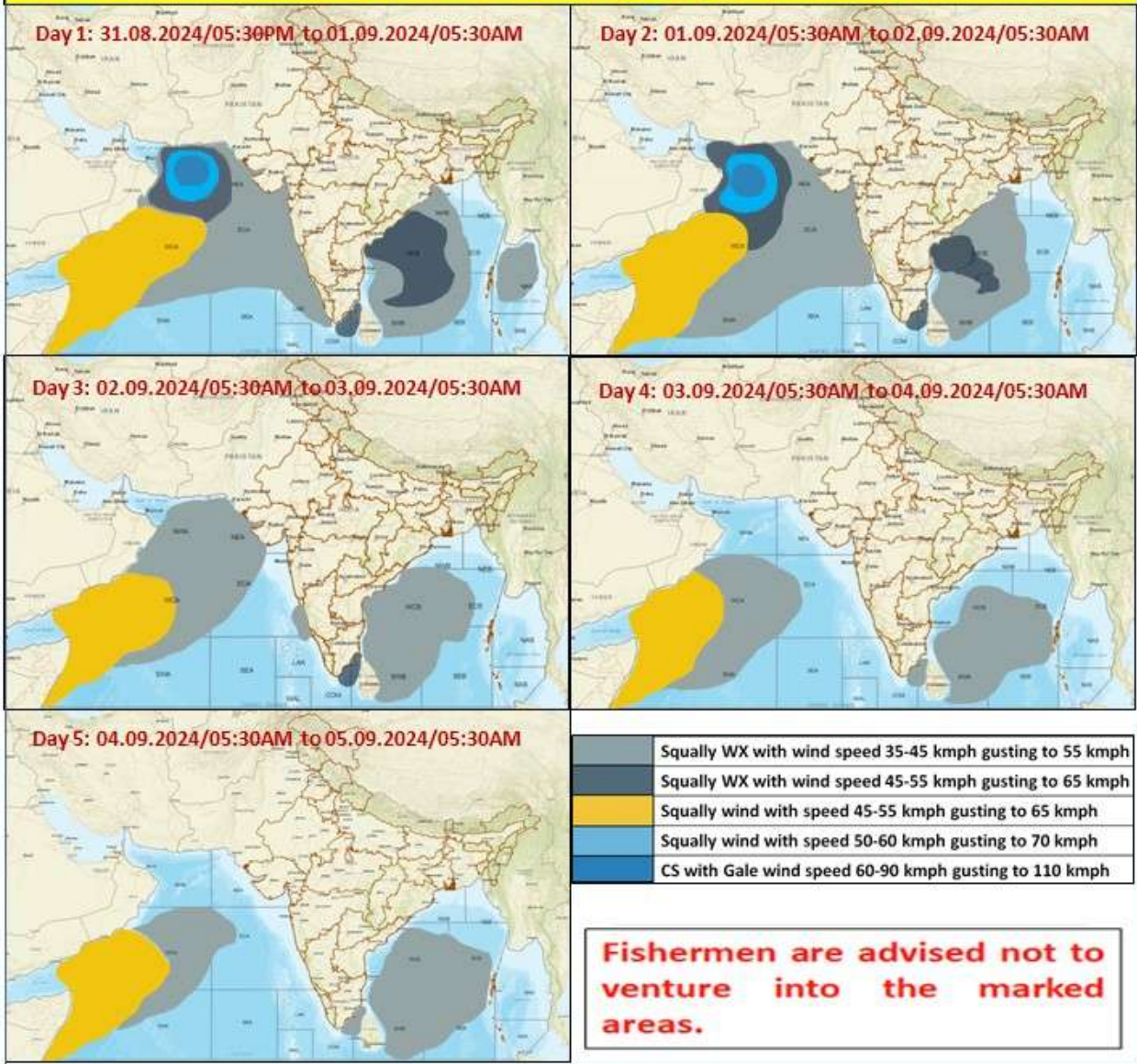
Chhattisgarh - Bijapur, Dantewara, Narayanpur and Sukma districts.

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, 31<sup>st</sup> 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;