



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

NATIONAL BULLETIN NO. 42 (LAND/02/2024)

TIME OF ISSUE: 0930 HOURS IST

DATED: 01.09.2024

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)
CONTROL ROOM NDMA (FAX.NO. 26701729)
CABINET SECRETARIAT (FAX.NO.23012284, 23018638)
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)
SECRETARY, MOES (FAX NO. 24629777)
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)
DIRECTOR GENERAL, DOORDARSHAN (23385843)
DIRECTOR GENERAL, AIR (23421105, 23421219)
PIB MOES (FAX NO. 23389042)
UNI (FAX NO. 23355841)
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)
DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)
CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)
CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)
CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)
CHIEF SECRETARY, TELANGANA (FAX NO. 040-23453700)
CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594)
CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305)
CHIEF SECRETARY, DAMAN & DIU (FAX NO. 0260-2230775)
CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466)
CHIEF SECRETARY, GOA (FAX NO. 0832-2415201)**

**Sub: (a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northwest Arabian Sea and (b) Depression over south Odisha and adjoining north Andhra Pradesh
(a) Cyclonic Storm "ASNA" (pronounced as As-Na) over northwest Arabian Sea**

The **Cyclonic Storm "ASNA" (pronounced as As-Na)** over northwest and adjoining northeast Arabian Sea moved west-southwestwards with a speed of 13 kmph during past 6 hours and lay centered at 0530 hours IST of today, the 01st September, 2024 over northwest Arabian Sea near latitude 23.2°N and longitude 62.6°E, 640 km west of Naliya (Gujarat), 500 km west-southwest of Karachi (Pakistan), 250 km south-southwest of Pasni (Pakistan) and 440 km east of Muscat (Oman).

It is likely to move southwestwards over northwest Arabian Sea and weaken gradually into a deep depression by evening of today, the 1st September and into a depression by morning of 2nd September over the same region.

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
01.09.24/0530	23.2/62.6	65-75 gusting to 85	Cyclonic Storm
01.09.24/1130	22.8/62.1	60-70 gusting to 80	Cyclonic Storm
01.09.24/1730	22.4/61.7	50-60 gusting to 70	Deep Depression
01.09.24/2330	22.0/61.4	40-50 gusting to 60	Depression
02.09.24/0530	21.6/61.1	35-45 gusting to 55	Depression

Warnings:

(i) Wind warning:

- Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off Pakistan during next 12 hours.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over central parts of north Arabian Sea during next 12 hours and decrease thereafter.
- Gale wind speed reaching 65-75 kmph gusting to 85 kmph prevailing are 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:

- High sea conditions would prevail over northwest Arabian Sea till night of 1st September and would become Very Rough to Rough till morning of 2nd September and would improve thereafter.
- Squally weather with Rough to Moderate Sea conditions are likely along & off Pakistan coast during next 12 hours.
- Very rough to rough sea conditions are likely over central parts of north Arabian Sea during next 12 hours and would improve thereafter.
- Rough sea condition is likely over adjoining westcentral Arabian Sea till 2nd September.

(iii) Fishermen warning:

Fishermen are advised not venture into

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

(b) Depression over South Odisha and adjoining areas north Andhra Pradesh & South Chhattisgarh

The depression over north Andhra Pradesh & south Odisha coasts moved west-northwestwards with a speed of 15 Kmph during the past 6 hours and lay centered at 0530 hours IST of today, the 01st September, 2024 over south Odisha and adjoining areas of north Andhra Pradesh & South Chhattisgarh near latitude 18.5°N and longitude 83.0°E, about 90 km north-northwest of Visakhapatnam (Andhra Pradesh), 120 km west of Kalingapatnam (Andhra Pradesh), 120 km east of Malkangiri (Odisha), 120 km east-southeast of Jagdalpur (Chhattisgarh) and 220 km west-southwest of Gopalpur (Odisha) and 380 km east of Ramagundam (Telangana).

It is likely to move west-northwestwards across South Odisha & South Chhattisgarh and weaken into a Well Marked Low Pressure Area during next 24 hours.

Warnings:

(i) Rainfall Warning:

South Odisha: Light to moderate rainfall at most places with heavy rainfall at isolated places likely during next 24 hours.

South Chhattisgarh and Southeast Madhya Pradesh: Light to moderate rainfall at most places with heavy to very rainfall at isolated places is likely during next 24 hours.

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

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

West Madhya Pradesh and Marathwada: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places during next 24 hours.

(ii) Wind warning:

- Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph likely over Westcentral and adjoining Northwest Bay of Bengal and along & off North Andhra Pradesh & south Odisha coasts during next 12 hours and would gradually decrease thereafter.
- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely over South Odisha, North Andhra Pradesh South Chhattisgarh and Telangana on 1st September.

(iii) Sea condition:

- Rough sea condition is very likely to prevail over Westcentral and adjoining Northwest Bay of Bengal and along & off North Andhra Pradesh & south Odisha coasts during next 12 hours.

(iv) Fishermen warning:

Fishermen are advised not to venture into

- Westcentral & adjoining northwest Bay of Bengal and along & off south Odisha and north Andhra Pradesh Coasts on 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 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.

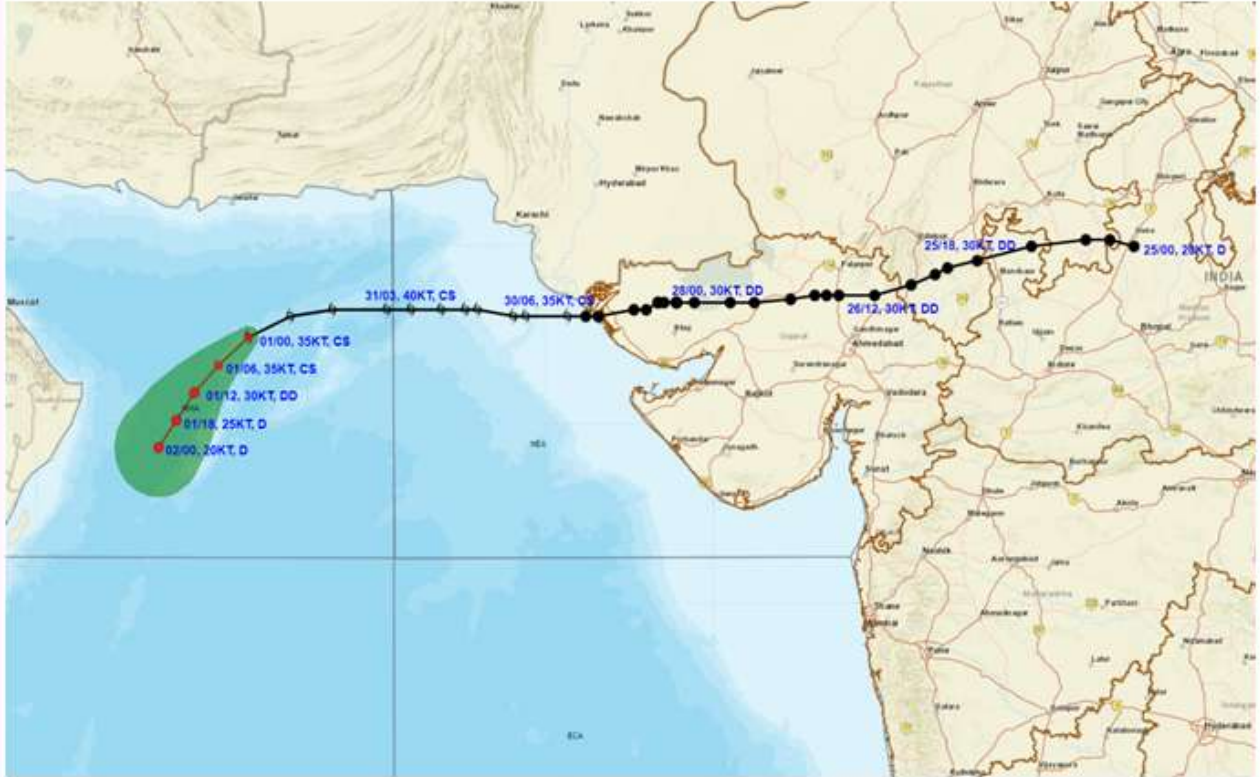
Next bulletin will be issued at 1130 hours IST of 01st September, 2024.

(M SHARMA)
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 ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 1ST SEPTEMBER, 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 NORTHWEST ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 1st SEPTEMBER, 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)

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

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 SOUTH ODISHA AND ADJOINING AREAS OF NORTH ANDHRA PRADESH AND SOUTH CHHATTISGARH BASED ON 0000 UTC (0530 IST) OF 1ST SEPTEMBER, 2024.

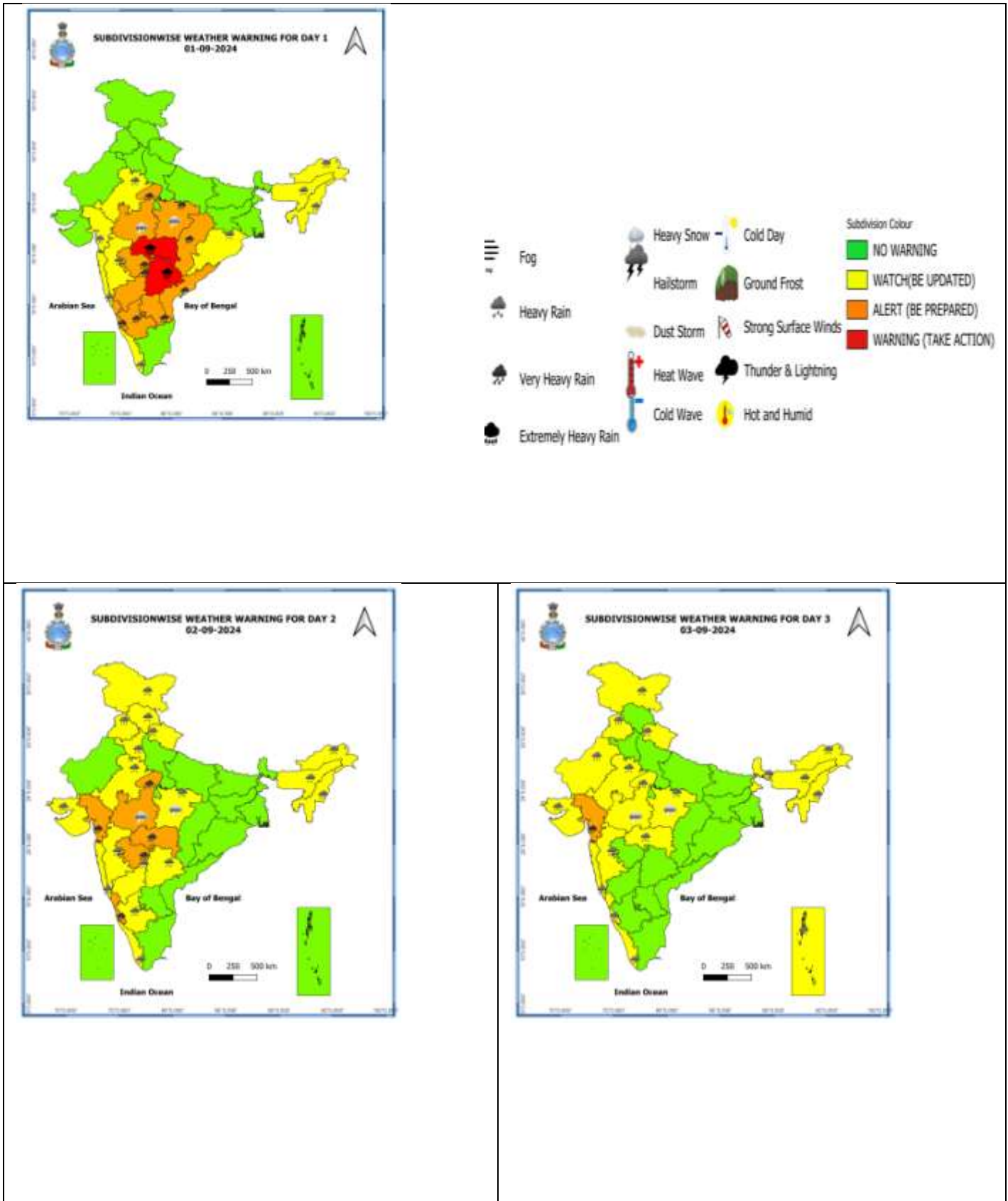


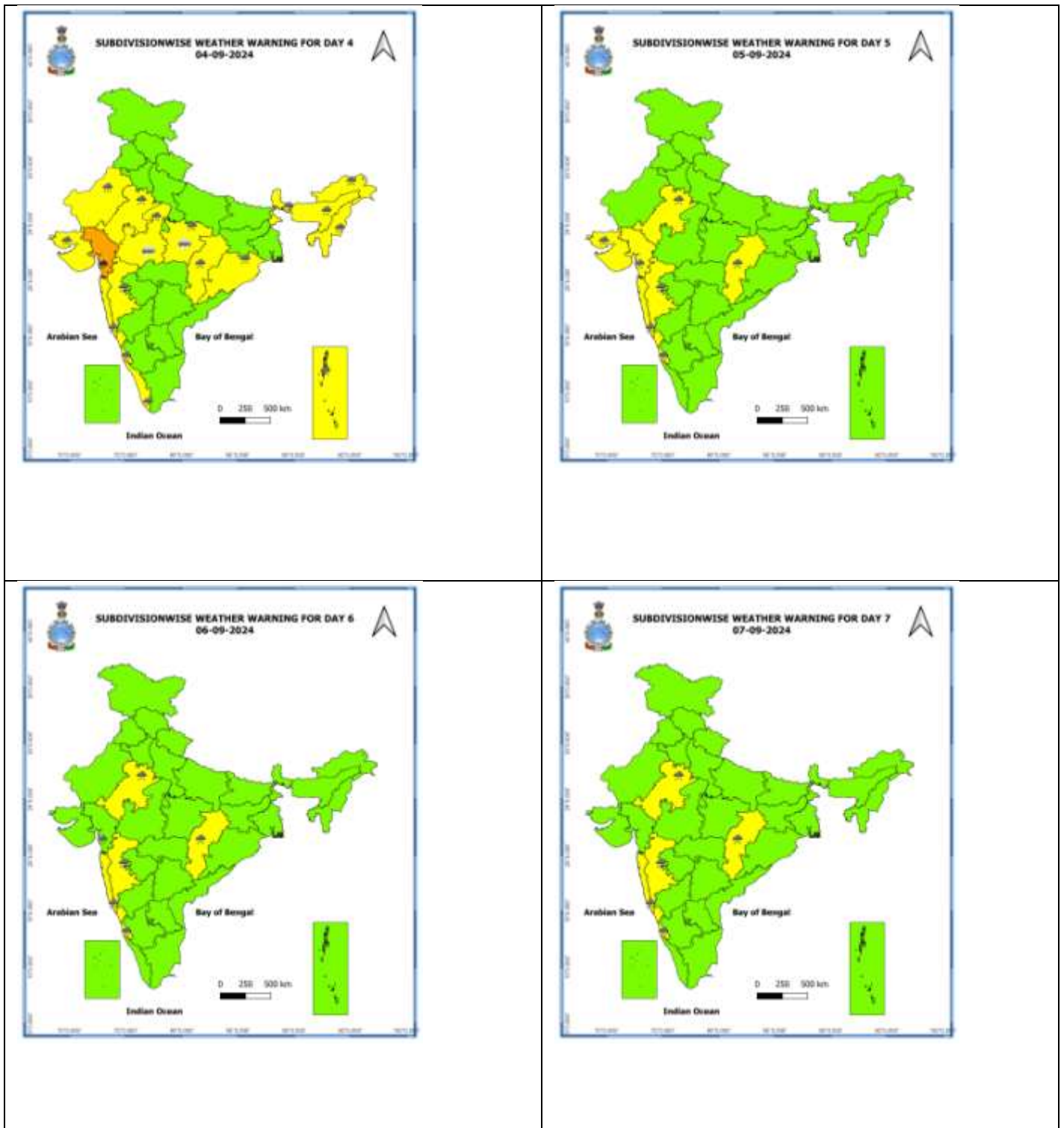
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

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

Weather Warning Graphics



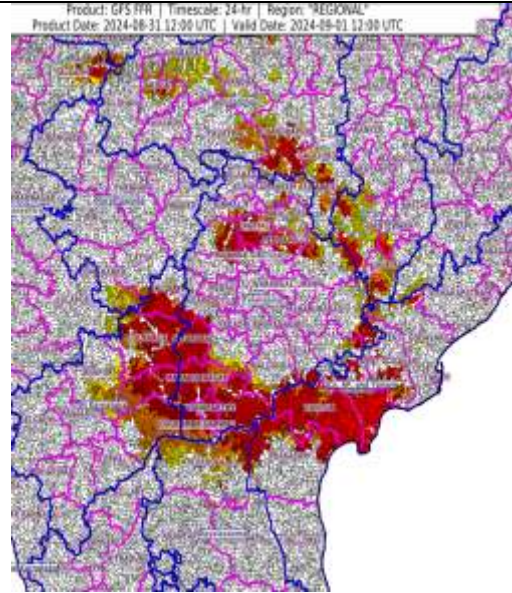


- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

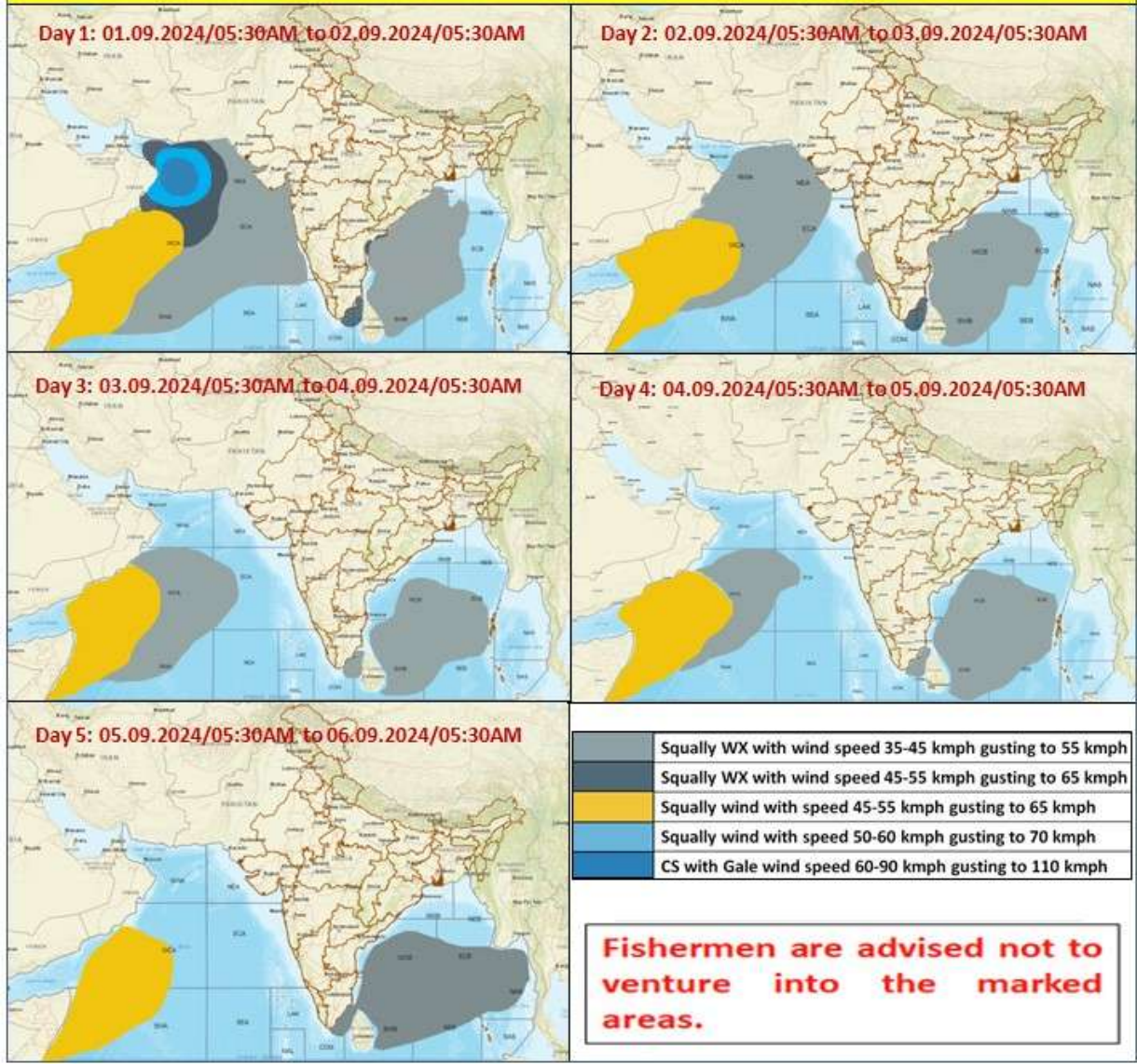
Flash Flood Guidance

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.



Fishermen Warning Graphics



Annexure –I

Significant amount of rainfall (from 0830 hours IST of 31st August to 0530 hours IST of 1st September) (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- 13, Vijaywada-10, 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;