



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

NATIONAL BULLETIN NO. 05 (AS/02/2024)

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FROM: INDIA METEOROLOGICAL DEPARTMENT

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Sub: (A) Low Pressure Area over southeast Bay of Bengal and (B) Depression over central Arabian Sea

(A) Low Pressure Area over southeast Bay of Bengal

The low pressure area over southeast Bay of Bengal persisted over the same region at 1130 hrs IST of today, the 14th October 2024.

It is likely to move west-northwestwards and become well marked low pressure area over central parts of south Bay of Bengal by 15th October. Thereafter, it is likely to continue to move west-northwestwards towards north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh coasts during subsequent 2 days.

Warnings:

(i) Rainfall Warning:

Tamil Nadu & Puducherry: Light to moderate rainfall over most places with heavy to very heavy rainfall at isolated places is very likely on 14th & 15th and heavy to very heavy rainfall at a few places over Tamil Nadu & Puducherry with extremely heavy rainfall at isolated places over north Tamil Nadu is likely on 16th October.

Light to moderate rainfall over most places with heavy to very heavy rainfall at isolated places is very likely over interior Tamil Nadu on 17th October.

South Andhra Pradesh & Rayalaseema: Light to moderate rainfall over most places heavy to very heavy rainfall at a few places is very likely on 14th; heavy to very heavy rainfall at isolated places on 15th & 17th and heavy to extremely heavy rainfall at isolated places is very likely on 16th October.

Kerala & south Interior Karnataka: Light to moderate rainfall over most places with heavy to very heavy rainfall at isolated places is likely over Kerala and south Interior Karnataka on 16th & 17th October.

(ii) Wind Warning:

Squally weather with wind speed reaching 35-45 kmph gusting 55 kmph is likely to prevail over southeast and adjoining southwest & central Bay of Bengal till 15th evening. Thereafter, it is likely to increase becoming squally wind speed reaching 40-50 kmph gusting to 60 kmph over southwest and adjoining westcentral Bay of Bengal and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till morning of 17th October and decrease gradually thereafter.

(iii) Sea Condition:

Moderate to Rough Sea condition is likely to prevail over southeast and adjoining southwest & central Bay of Bengal till 15th evening. It is likely to become Rough Sea condition thereafter over southwest & adjoining westcentral Bay of Bengal and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till morning of 17th October and improve gradually thereafter.

(iv) Fishermen Warning:

Fishermen are advised not to venture into

- Southeast and adjoining central Bay of Bengal during 14th to 15th October.
- Southwest and adjoining westcentral Bay of Bengal from 15th to 17th October.
- Fishermen out at sea are advised to return to coasts by today, the 14th October.

❖ Impact Expected [Tamil Nadu (including Chennai) and Andhra Pradesh due to heavy rainfall]

- 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.
- Disruption of traffic in major cities and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents
- Likely disruption of marine and inland water transportation like small boats and trawlers.
- 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 and wind.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

❖ Action Suggested [Tamil Nadu and Andhra Pradesh due to heavy rainfall]

- Judicious regulation of surface transports including railways and roadways and onshore/offshore activities.
- 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

- Provide mechanical support to horticultural crops & staking to vegetables.
- Keep the harvested produce at safer place.

(B) Depression over central Arabian Sea

The Depression over central Arabian sea moved west-northwestwards with a speed of 10 kmph during past 6 hours, and lay centred at 1130 hours IST of today, the 14th October, 2024 over the same region near latitude 16.0°N and longitude 64.0°E, about 750 km southeast of Masirah (Oman), 1060 km east of Salalah (Oman) and 1270 km east of Al Ghaidah (Yemen).

It is likely to move west-northwestwards towards Oman coast and weaken gradually into a well-marked low pressure area during next 24 hours.

Warnings:

(i) Wind warning:

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over central parts of Arabian Sea till 14th October evening and decrease gradually thereafter.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over adjoining central parts of north Arabian Sea till 14th October evening and decrease gradually thereafter.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over westcentral Arabian Sea from 14th night till 16th morning and decrease gradually thereafter.

(ii) Sea condition:

- Rough sea conditions is likely to prevail over central parts of Arabian Sea till 14th evening and improve thereafter.
- Rough sea condition is likely over central parts of north Arabian Sea till 14th evening.
- Rough sea condition is likely to prevail only over westcentral Arabian Sea from 14th night to 16th October morning.

(iii) Fishermen warning:

Fishermen are advised not venture into

- Central and adjoining north Arabian Sea till evening of 14th October.
- Westcentral Arabian Sea till morning of 16th October.

❖ Impact Expected over Sea area

- Reduction of visibility over sea area due to sea spray induced by strong wind and heavy rainfall.
- Impact expected for boats, motor boats, smaller ships and trawler used for fishing and other purposes.

❖ Action Suggested

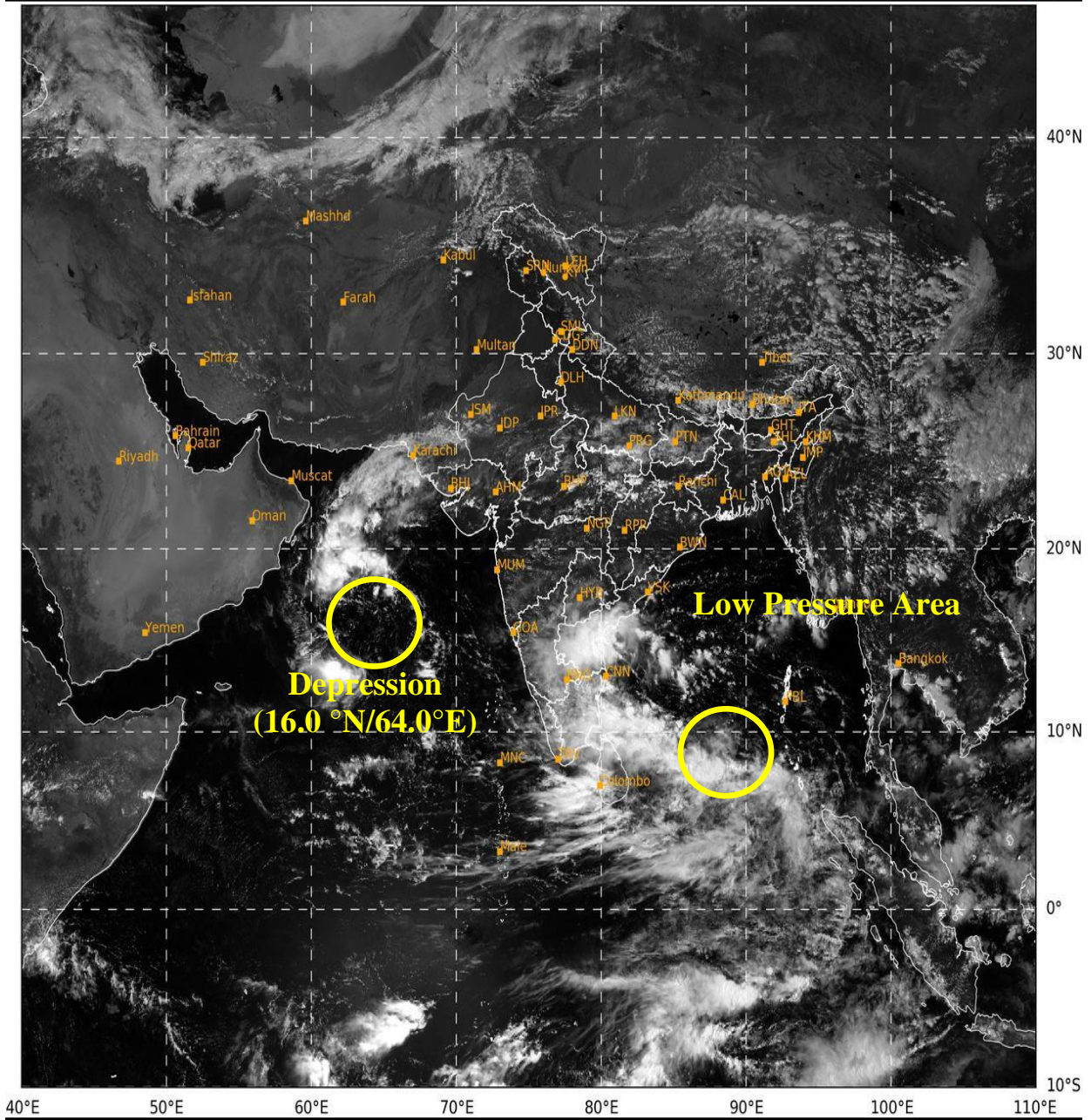
Fishermen are advised not venture into

- Central and adjoining north Arabian Sea till evening of 14th October.
- Westcentral Arabian Sea till morning of 16th October.

Next bulletin will be issued at 2030 hours IST of today, the 14th October, 2024.

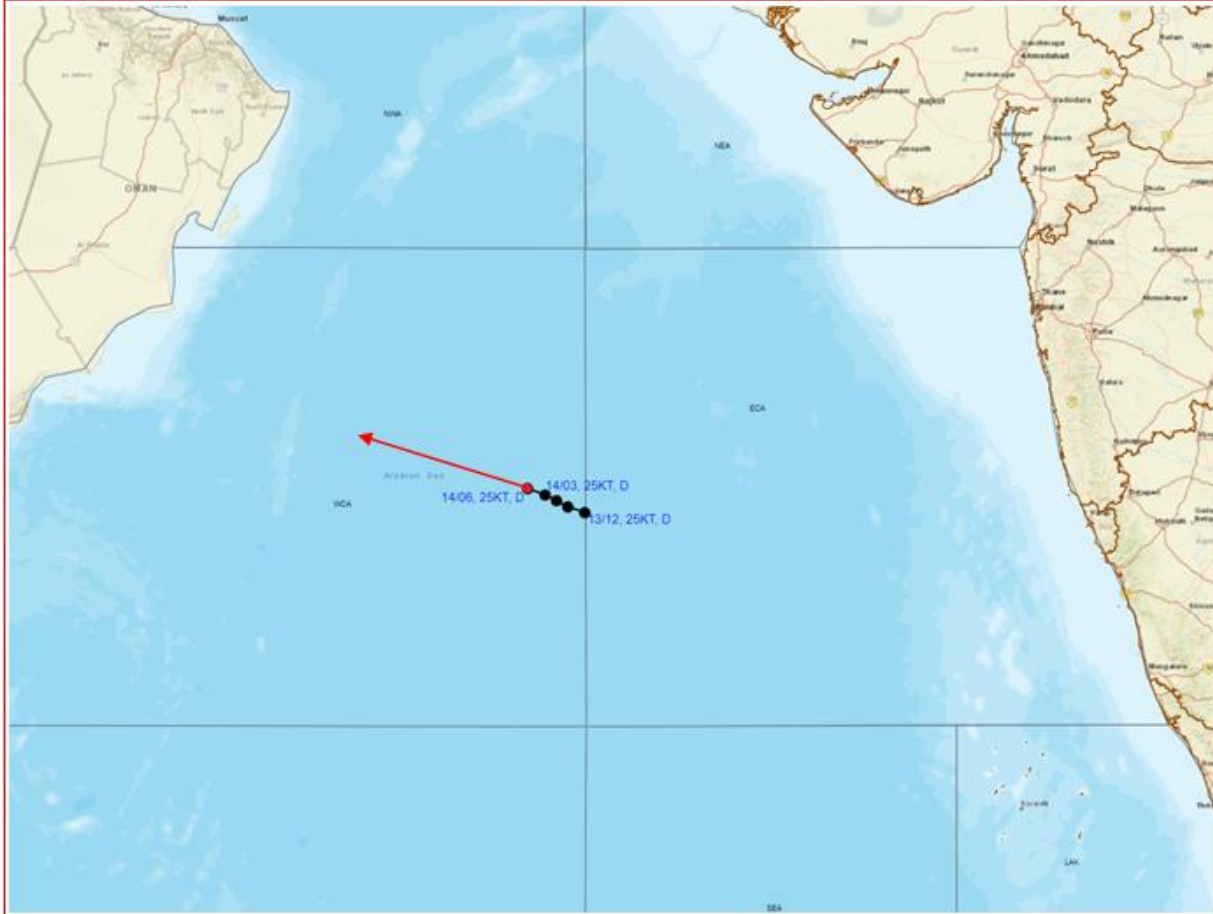
(Dr. Ananda Kumar Das)
Scientist-F, RSMC & IMD, New Delhi

Copy to: ACWC Kolkata/ACWC Mumbai/ACWC Chennai/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam CWC, Thiruvananthapuram/ MC, Goa





**OBSERVED AND FORECAST TRACK OF DEPRESSION OVER CENTRAL ARABIAN SEA
BASED ON 0600 UTC (1130 Hrs IST) OF 14th OCTOBER, 2024**

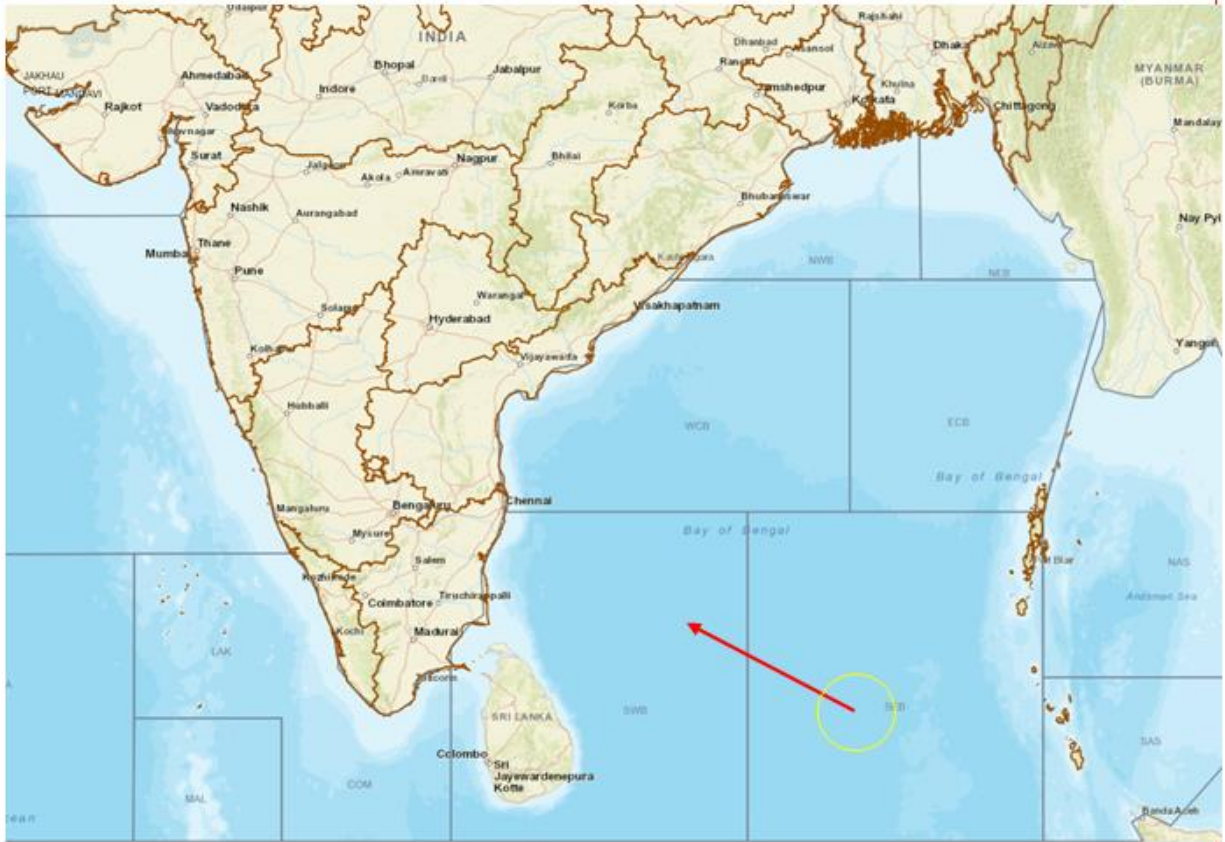


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119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

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

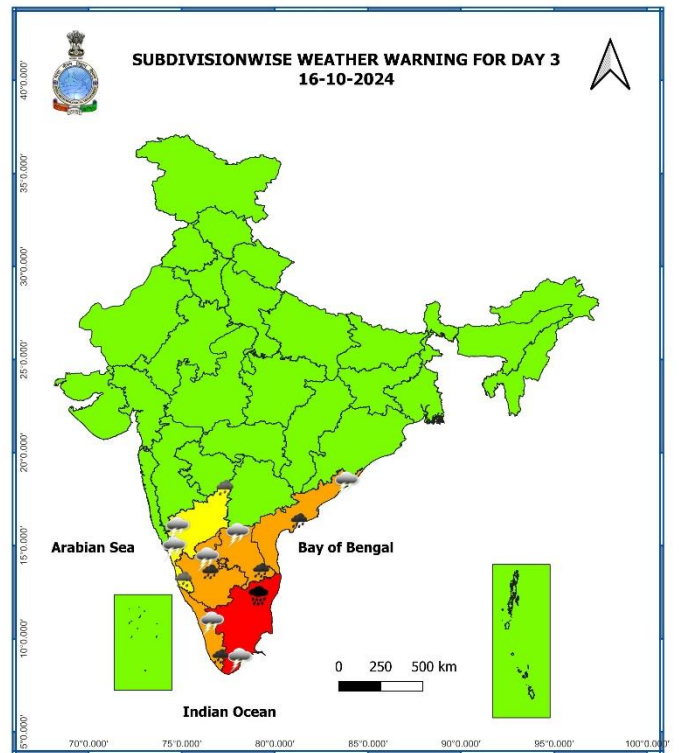
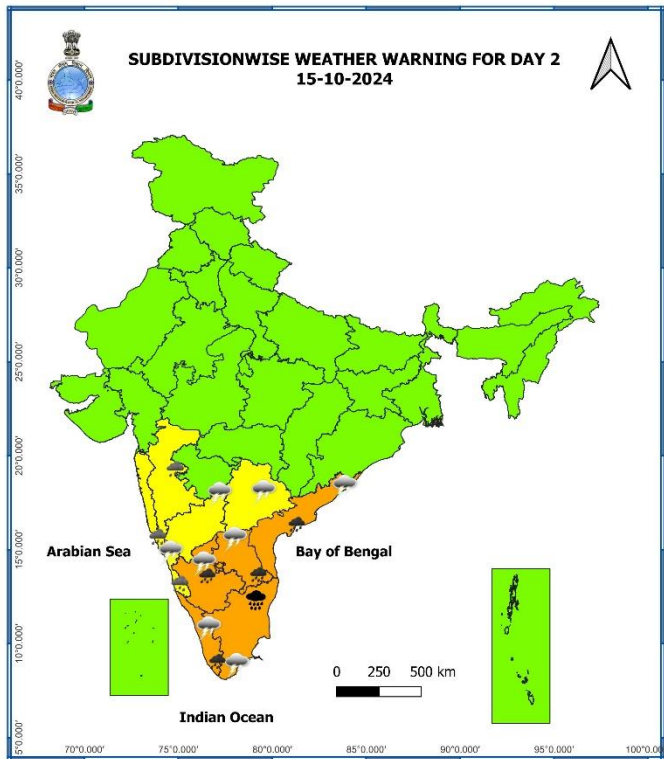
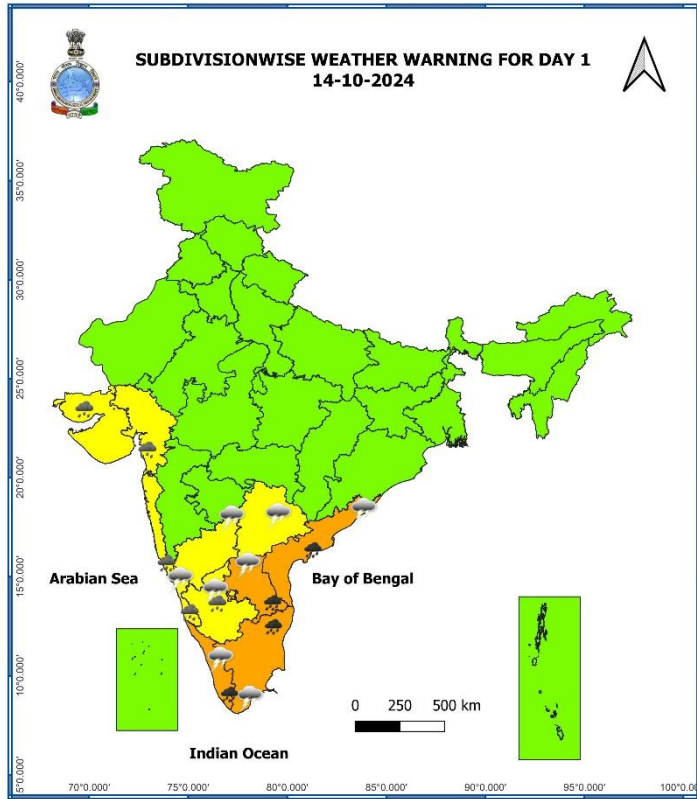


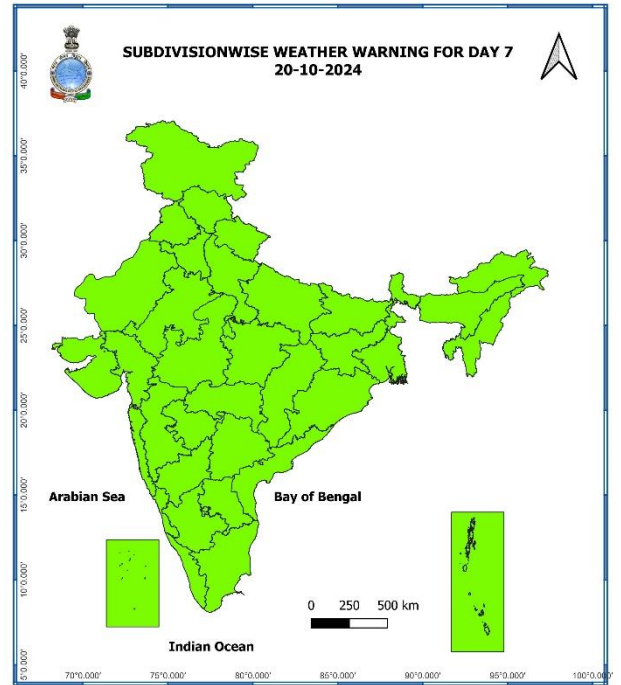
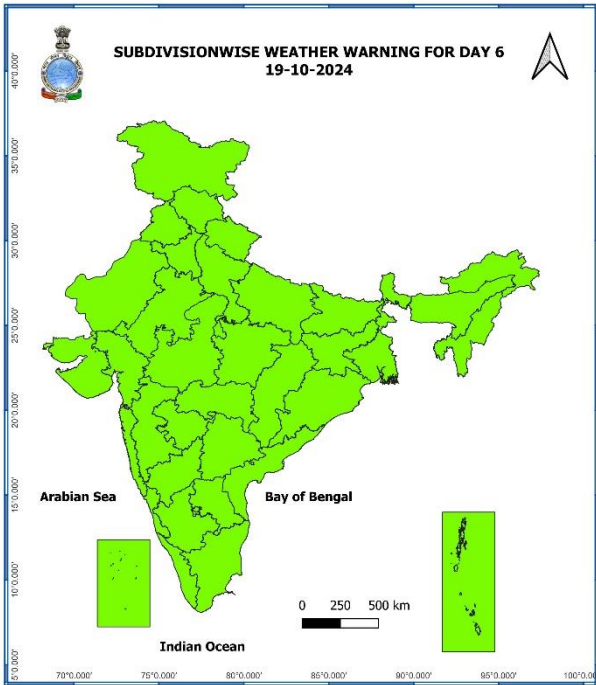
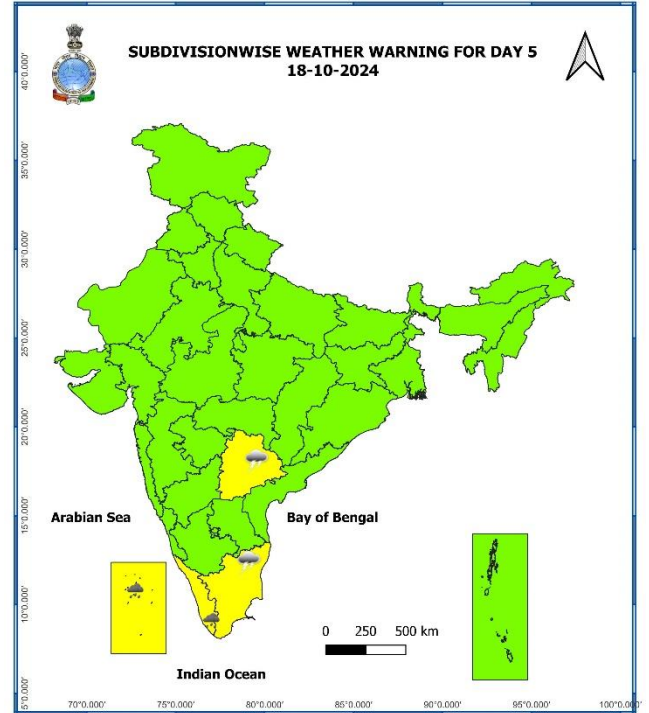
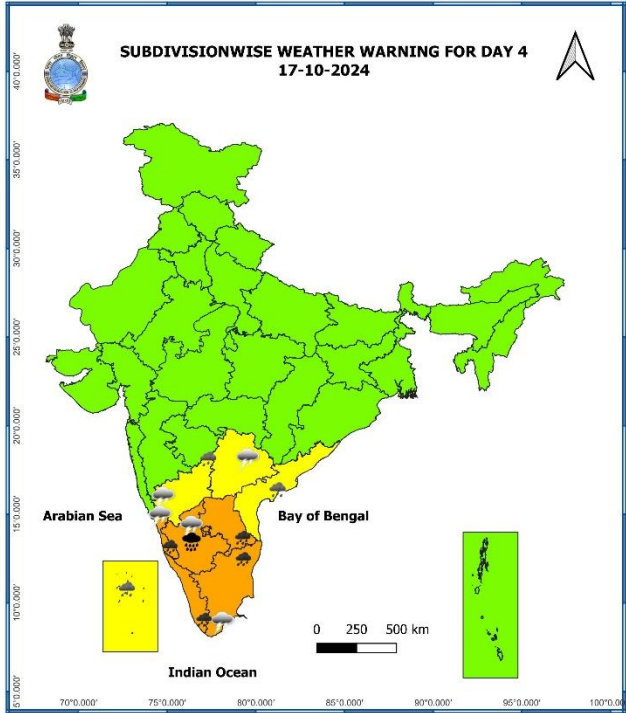
LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL BASED ON 0600 UTC (1130 Hrs IST) OF 14th OCTOBER, 2024



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IST=UTC + 0530
L: LOW PRESSURE AREA
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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





- 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.

Fishermen Warning Graphics

