



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

NATIONAL BULLETIN NO. 07 (AS/02/2024)

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DATED: 15.10.2024

FROM: INDIA METEOROLOGICAL DEPARTMENT

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Sub: (A) Low Pressure Area over southeast Bay of Bengal and (B) Depression over westcentral Arabian Sea off Oman coast

(A) Low Pressure Area over southeast Bay of Bengal

The low pressure area over southeast Bay of Bengal persisted over the same region at 2330 hours IST of yesterday, the 14th October 2024.

It is likely to move west-northwestwards and become a well marked low pressure area over central parts of south Bay of Bengal by morning of today, the 15th October. Thereafter, it is likely to intensify into a depression and 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 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 and extremely heavy rainfall at isolated places is very likely on 15th & 16th and heavy rainfall at isolated places is likely on 17th 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 evening of today, the 15th October. It is likely to increase thereafter 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 evening of today, the 15th October. 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 on 15th October.
- Southwest and adjoining westcentral Bay of Bengal from 15th to 17th October.
- Fishermen out at sea are advised to return to coasts.

❖ 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]

- Fishermen are advised not to venture into
 - Southeast and adjoining central Bay of Bengal on 15th October.
 - Southwest and adjoining westcentral Bay of Bengal from 15th to 17th October.
 - Fishermen out at sea are advised to return to coasts.
- 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 westcentral Arabian Sea off Oman coast

The Depression over central Arabian sea moved westwards with a speed of 8 kmph during past 6 hours, and lay centred at 2330 hours IST of yesterday, the 14th October, 2024 over westcentral Arabian Sea off Oman coast near latitude 16.1°N and longitude 61.5°E, about 580 km south-southeast of Masirah (Oman), 800 km east of Salalah (Oman) and 1010 km east of Al Ghaidah (Yemen).

It is likely to move nearly westwards towards Oman coast and weaken gradually into a well-marked low pressure area during next 12 hours.

Warnings:

(i) Wind warning:

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over westcentral Arabian Sea till 16th morning and decrease gradually thereafter.

(ii) Sea condition:

- 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

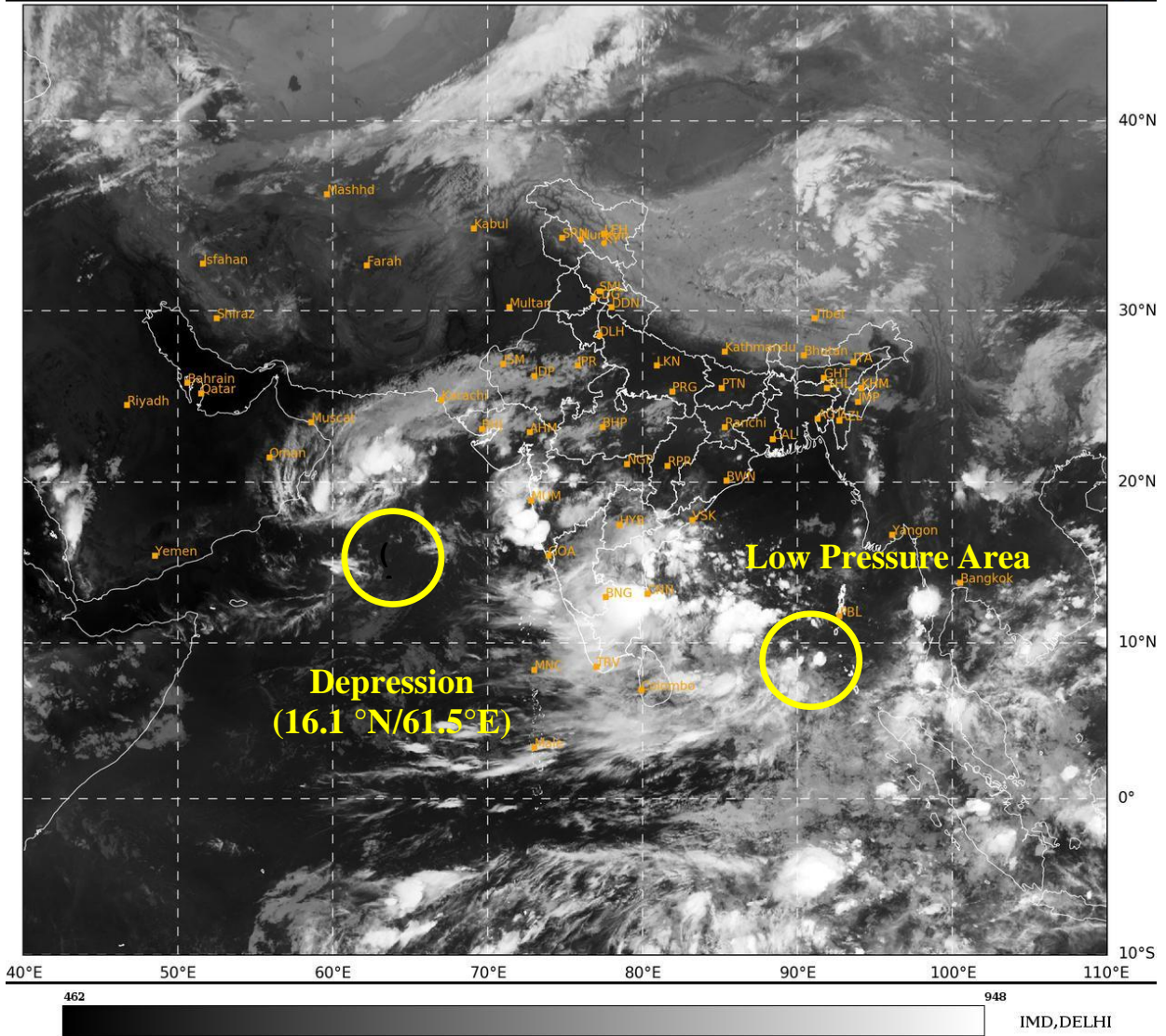
Fishermen are advised not venture into

- 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 0830 hours IST of today, the 15th October, 2024.

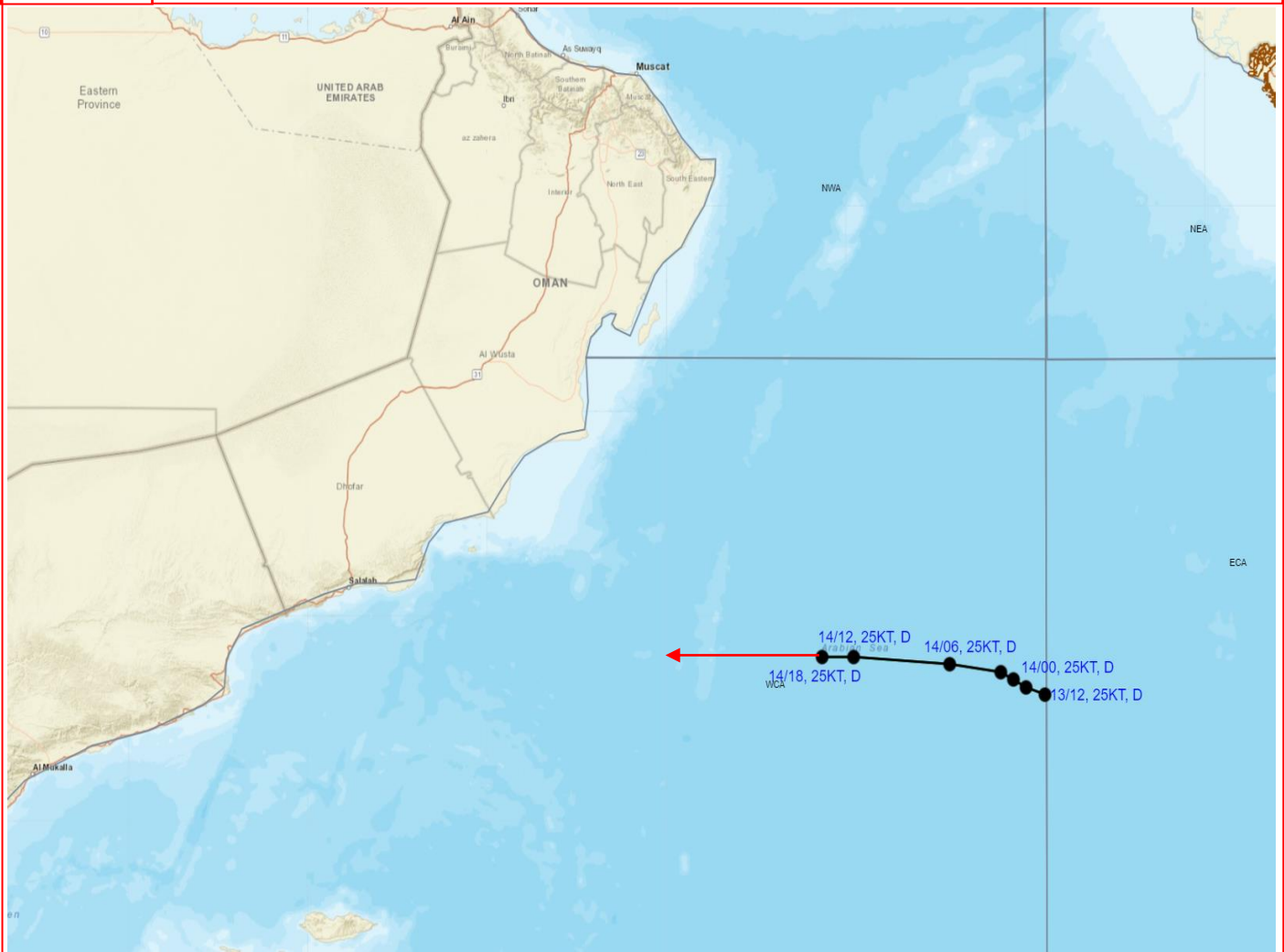
(Dr. JOHNY C J)
Scientist-D, RSMC & IMD, New Delhi

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 WESTCENTRAL ARABIAN SEA OFF OMAN COAST BASED ON 1800 UTC (2330 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**

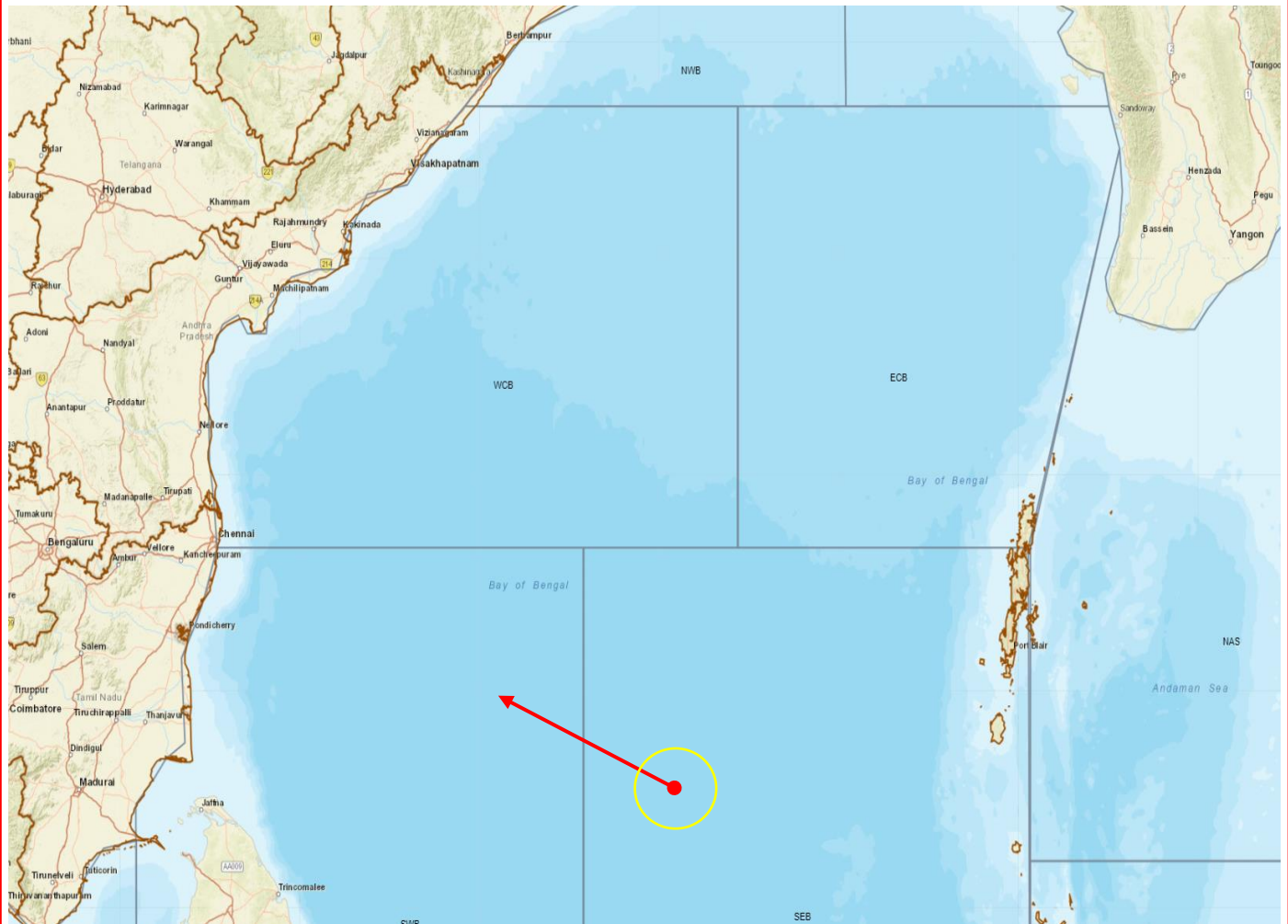
 **OBSERVED TRACK**

 **FORECAST TRACK**

 **CONE OF UNCERTAINTY**



**LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL BASED ON 1800 UTC
(2330 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)


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SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

 **LESS THAN 34 KT**

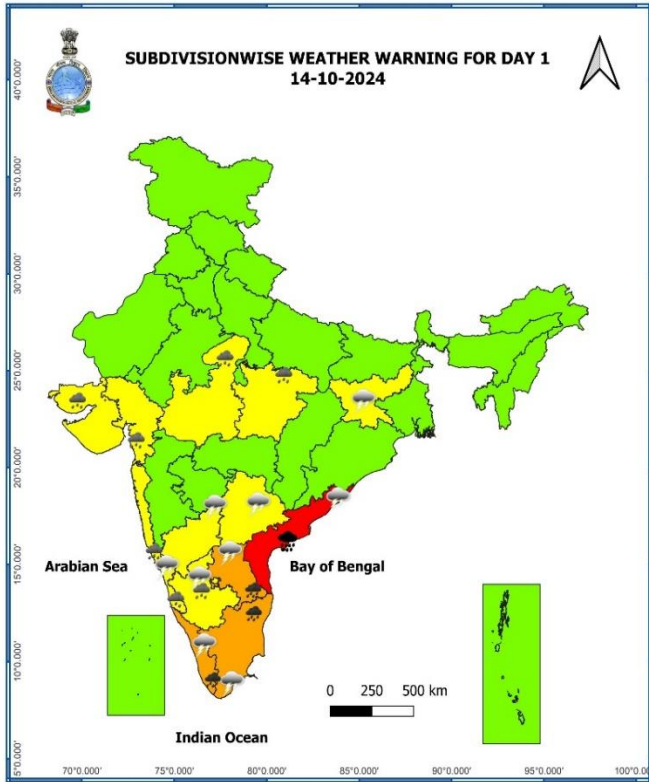
 **34-47 KT**

 **≥ 48 KT**

 **OBSERVED TRACK**

 **FORECAST TRACK**

 **CONE OF UNCERTAINTY**



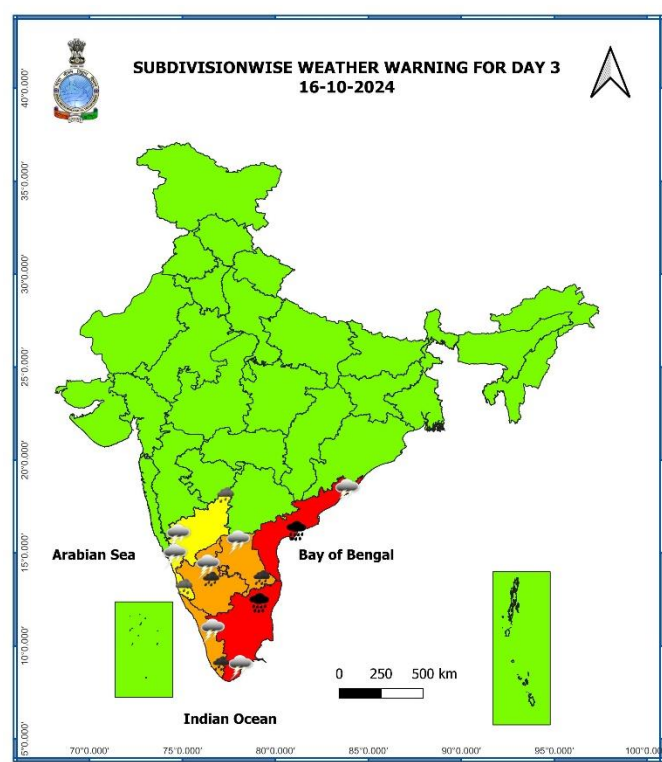
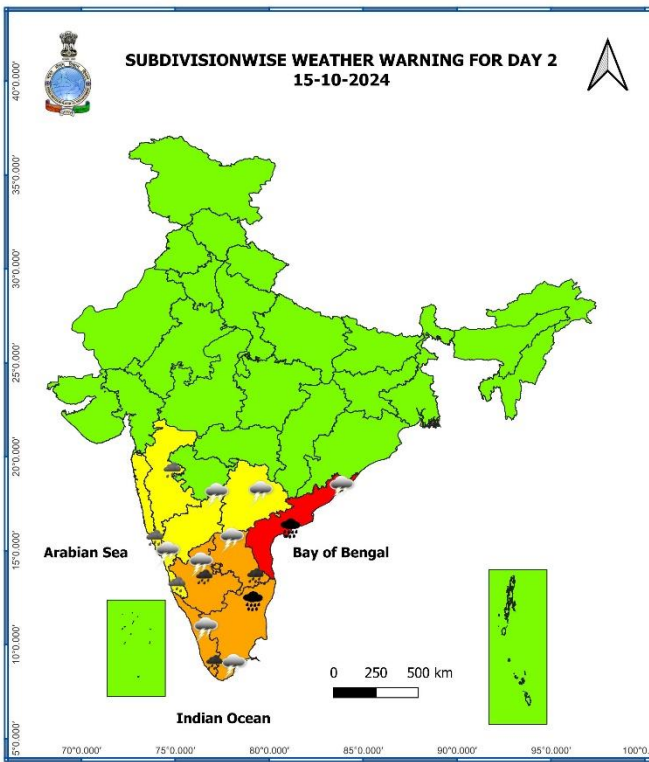
- Fog
- Heavy Rain
- Very Heavy Rain
- Extremely Heavy Rain
- Thunder & Lightning
- Hailstorm
- Dust Raising Winds
- Heavy Snow
- Dust Storm
- Heat Wave
- Warm Night
- Hot Day
- Hot & Humid
- Cold Wave
- Cold Day
- Ground Frost
- Strong Surface Winds

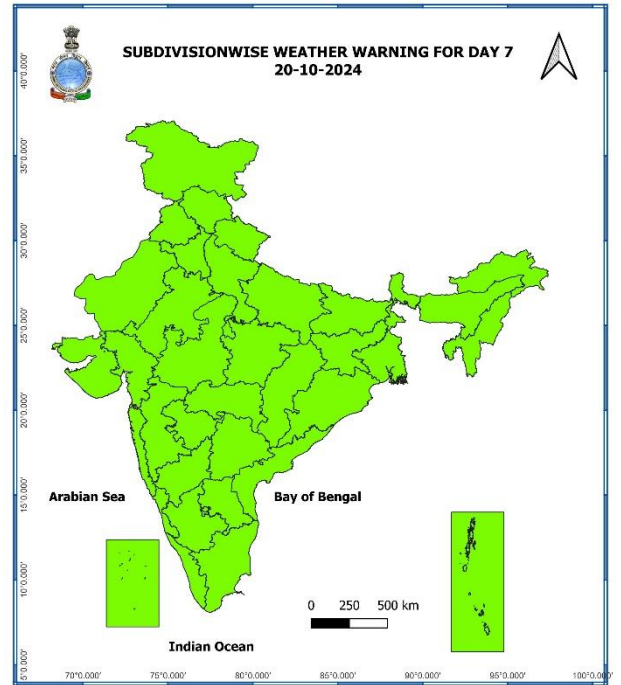
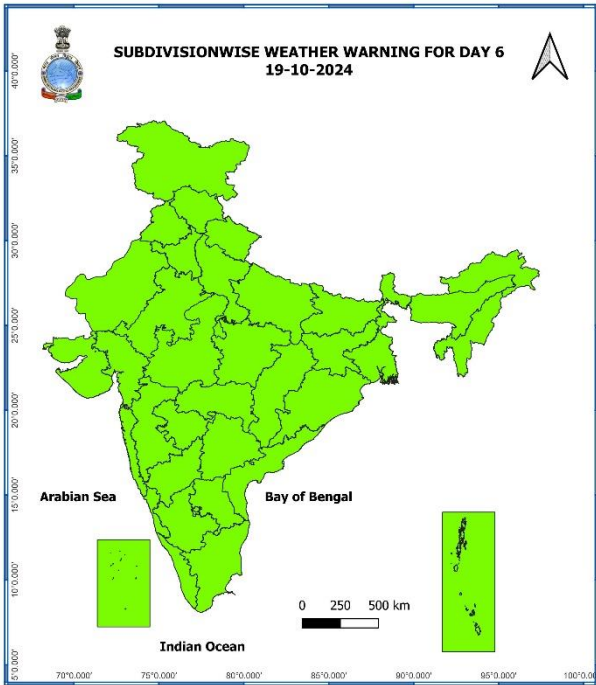
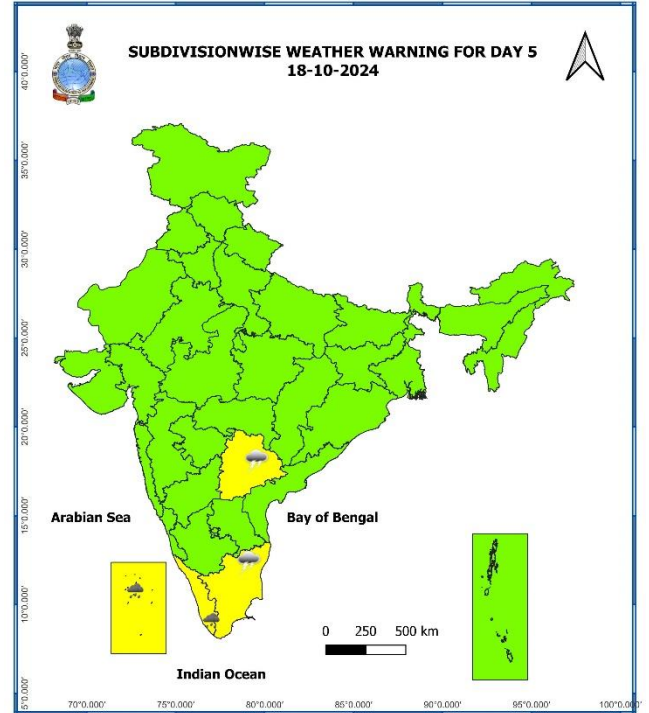
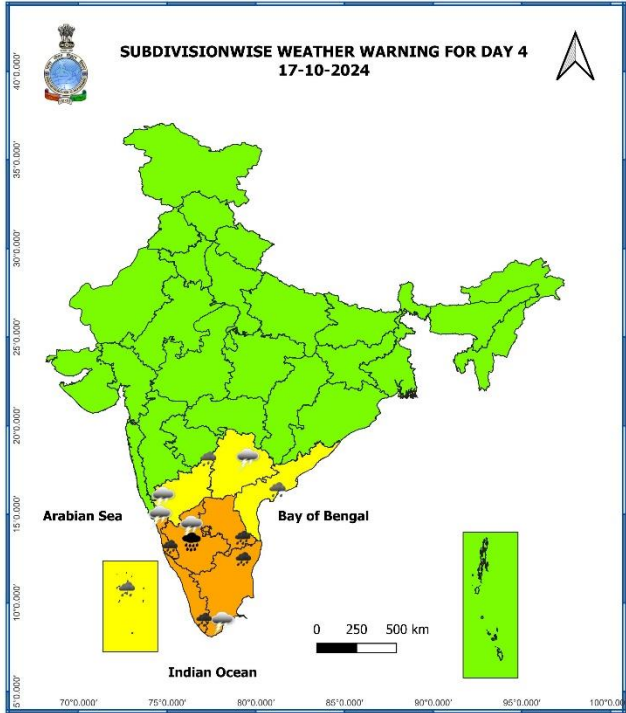
COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75





- 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

