



Government of India
Ministry of Earth Sciences



India Meteorological Department

PRESS RELEASE-1

Time of issue: 1700 hours IST

Dated: 15th October, 2024

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

(A) Well Marked Low Pressure Area over southwest and adjoining southeast Bay of Bengal

A cyclonic circulation lay over southeast and adjoining North Equatorial Indian Ocean in the morning (0830 hours IST) of the 12th October, 2024. It moved west-northwestwards and under its influence, a **Low Pressure Area** formed over southeast Bay of Bengal in the early morning (0530 hours IST) of the 14th October 2024. It lay as a **Well Marked Low Pressure Area** over the central parts of south Bay of Bengal in the early morning (0530 hours IST) of today, the 15th October 2024.

It moved west-northwestwards and lay centered over southwest and adjoining southeast Bay of Bengal around noon (1130 hours IST) of today, the 15th October 2024.

It is likely to move west-northwestwards and intensify into a depression over southwest Bay of Bengal during next 12 hours. It is likely to continue to move west-northwestwards thereafter and reach near north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh coasts by 17th October early morning as a depression.

Warnings:

(i) Rainfall Warning:

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

Light to moderate rainfall over most places with heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places is very likely over north Tamil Nadu & Puducherry on 16th October and isolated heavy to very heavy rainfall over north interior Tamil Nadu on 17th October.

Light to moderate rainfall over most places with heavy rainfall at isolated places is very likely over south Tamil Nadu during 15th to 17th October.

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

Contact: Cyclone Warning Division, Office of the Director General of Meteorology, India Meteorological Department, Ministry of Earth Sciences, E-mail: cyclonewarningdivision@gmail.com, Website: rsmcnewdelhi.imd.gov.in, Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%, Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(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 to very Rough Sea condition thereafter over southwest & adjoining westcentral Bay of Bengal and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 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.

(v) Flash Flood Guidance:**24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 16-10-2024 :**

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

Coastal Andhra Pradesh – Nellore and Prakasham district

Rayalaseema – Kadapa and Chittoor districts

Tamil Nadu– Thiruvallur district.

Surface runoff/ Inundation may occur at some fully saturated soil & low-lying areas over area of concern as shown in map due to expected rainfall occurrence in next 24 hours.

❖ 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 Webpage of Central Water Commission)

❖ 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.

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(B) Depression over Westcentral Arabian Sea off Oman coast

A cyclonic circulation lay over South Kerala & neighbourhood in the morning (0830 hours IST) of the 7th October, 2024. Under its influence, a **Low Pressure Area** formed over Lakshadweep and adjoining southeast & eastcentral Arabian Sea in the morning (0830 hours IST) of the 9th October, 2024. It lay as a **Well Marked Low Pressure Area** over eastcentral Arabian Sea off Karnataka-Goa coasts in the morning (0830 hours IST) of the 10th October 2024. It intensified into a **Depression** in the evening (1730 hours IST) of yesterday, the 13th October, 2024 over central Arabian Sea and lay centred at 1130 hours IST of today, the 15th October, 2024 over the same region near latitude 17.5°N and longitude 59.8°E, about 320 km southeast of Duqm (Oman), 360 km south-southeast of Masirah (Oman), 610 km east of Salalah (Oman) and 840 km east-northeast of Al Ghaidah (Yemen).

It is likely to move nearly north-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 15th October and decrease gradually thereafter.

(ii) Sea condition:

- Rough to very rough sea condition is likely to prevail only over westcentral Arabian Sea till 15th October and improve gradually thereafter.

(iii) Fishermen warning:

Fishermen are advised not venture into 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.

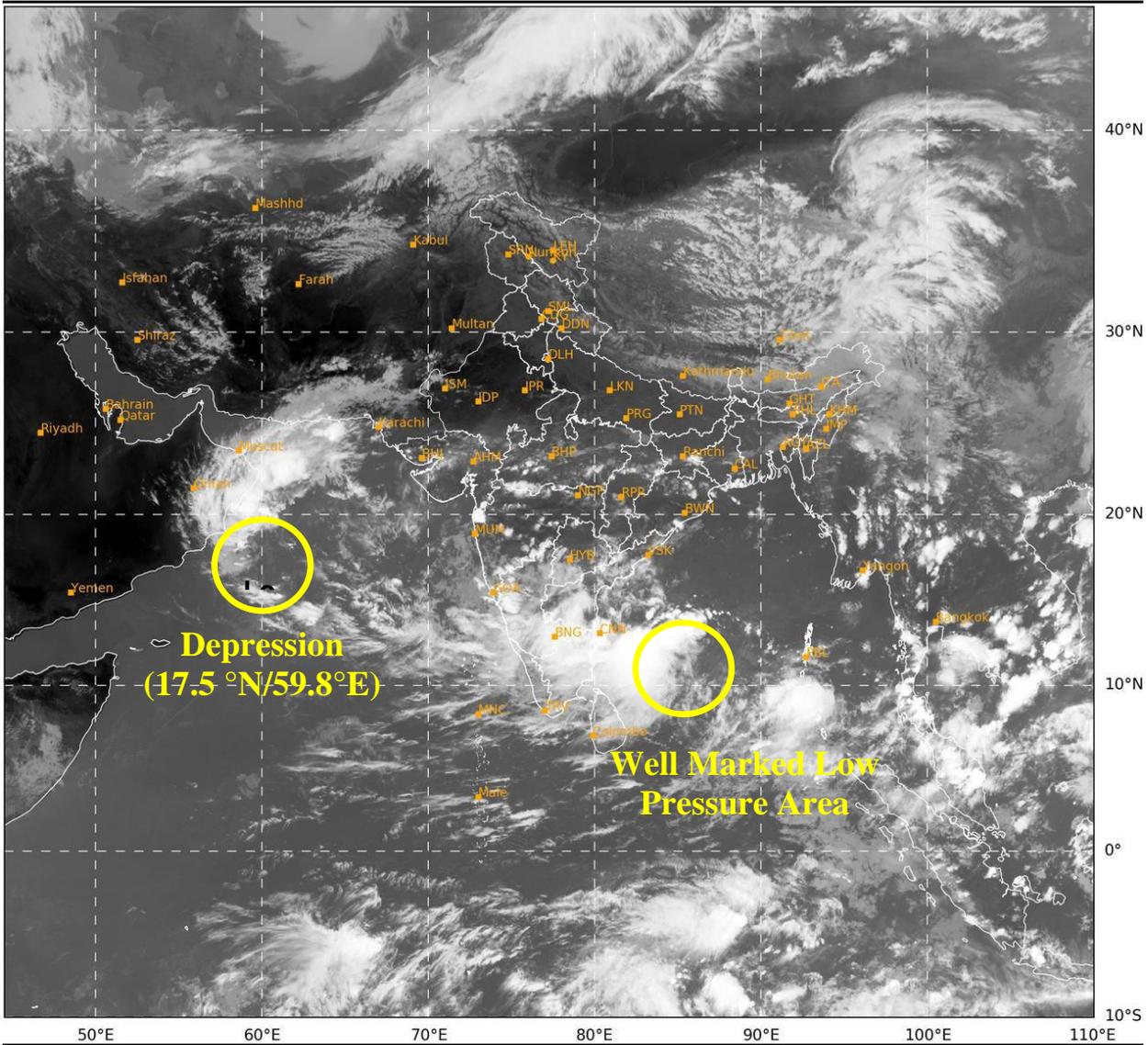
❖ Action Suggested

Fishermen are advised not venture into Westcentral Arabian Sea till morning of 16th October.

All associated graphics have been kept in Annexure-I.

Next Press Release will be issued at 1430 hours IST of tomorrow, the 16th October, 2024.

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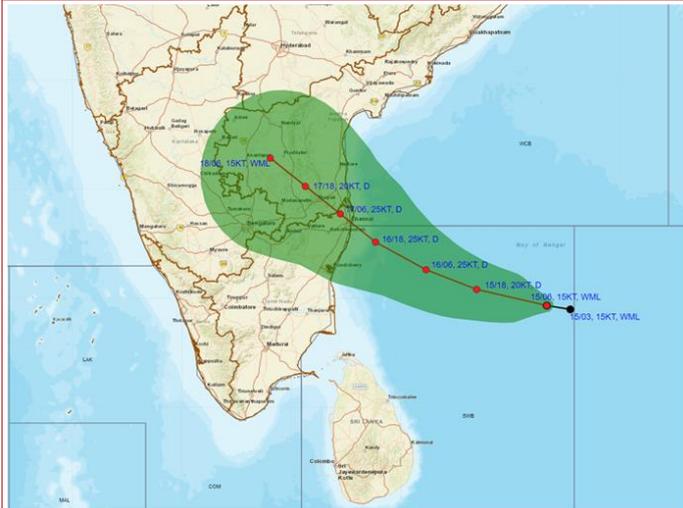
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IMD, DELHI

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WELL MARKED LOW PRESSURE AREA OVER SOUTHWEST ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0600 UTC (1130 Hrs. IST) OF 15th 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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF WELL MARKED LOW PRESSURE AREA OVER SOUTHWEST ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0600 UTC (1130 Hrs. IST) OF 15th OCTOBER, 2024

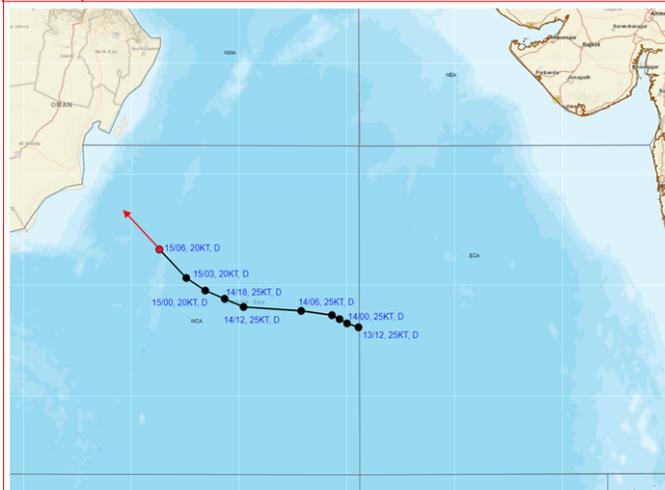


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— OBSERVED TRACK
— FORECAST TRACK
■ CONE OF UNCERTAINTY
■ AREA OF MAXIMUM SUSTAINED WIND SPEED:
■ 20-30 KT (35-55 kmph)



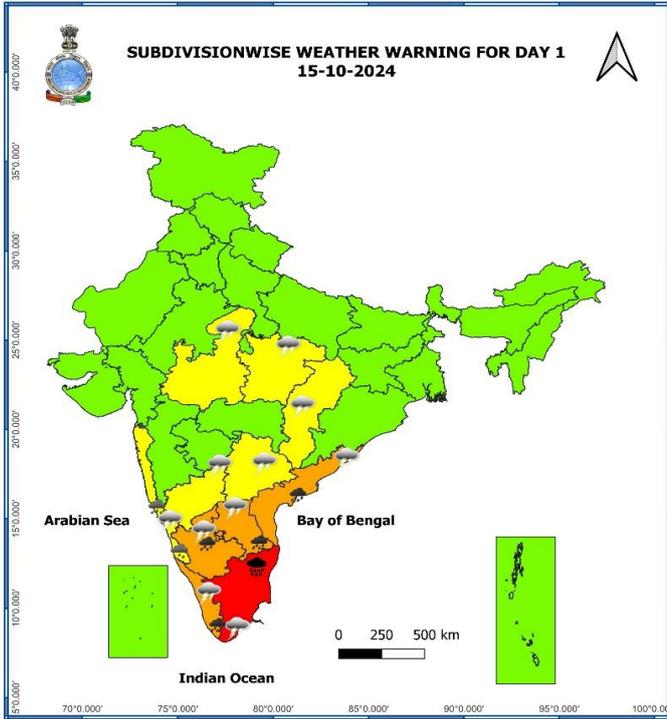
OBSERVED AND FORECAST TRACK OF DEPRESSION OVER WESTCENTRAL ARABIAN SEA BASED ON 0600 UTC (1130 Hrs. IST) OF 15th OCTOBER, 2024



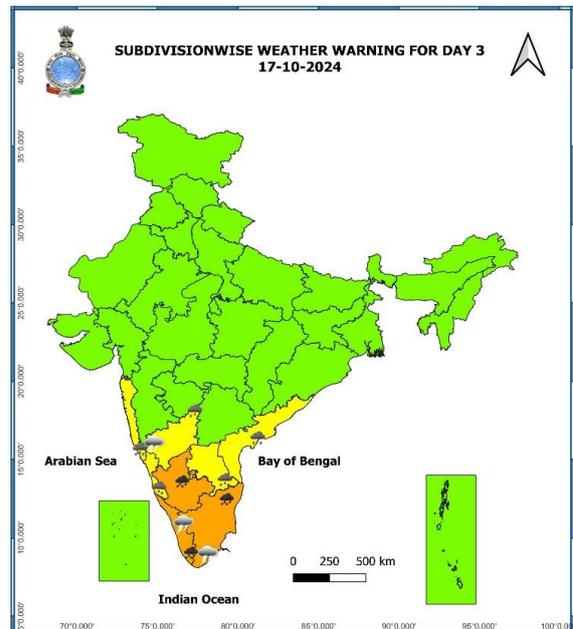
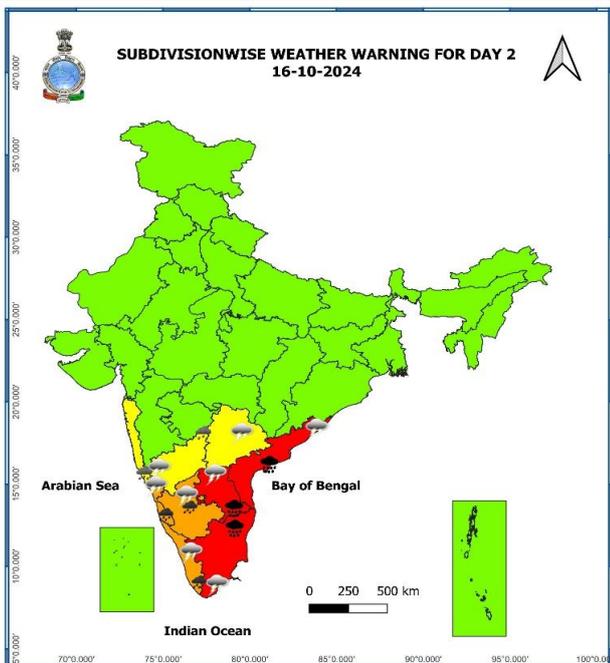
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— OBSERVED TRACK
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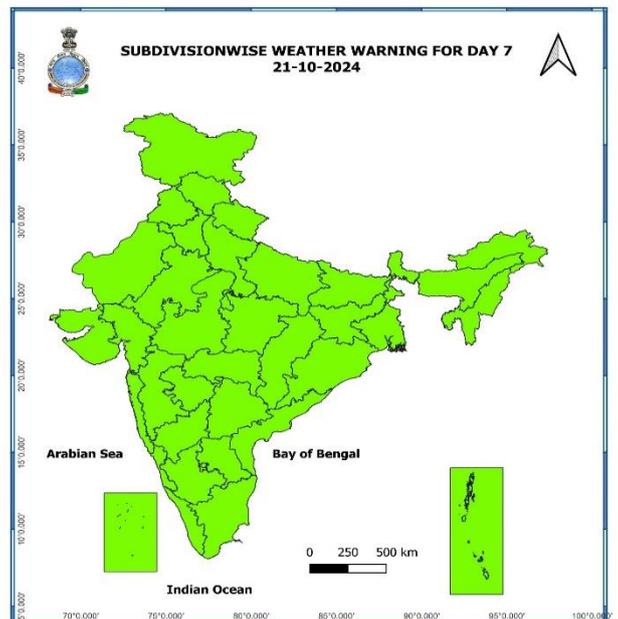
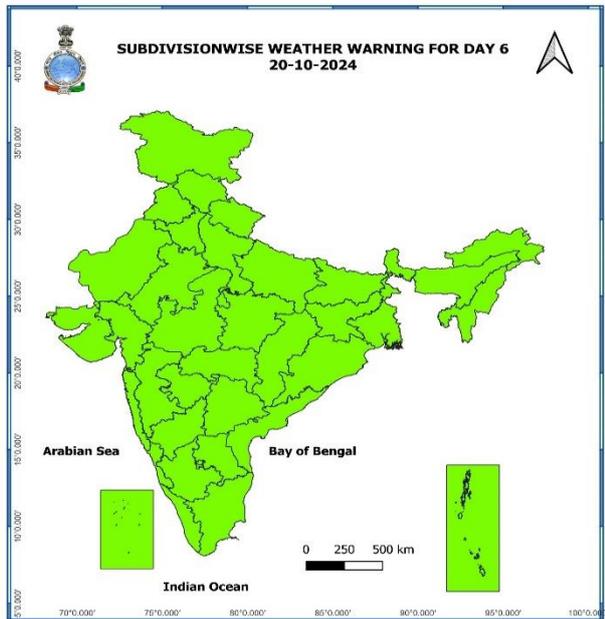
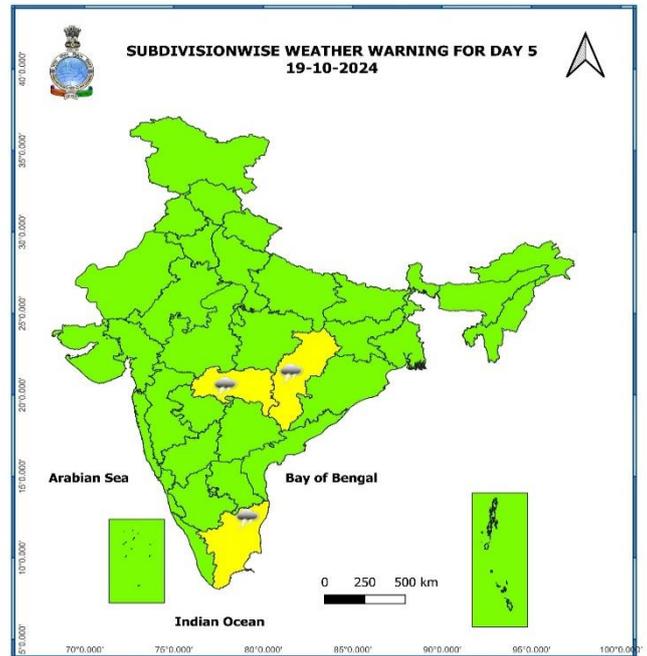
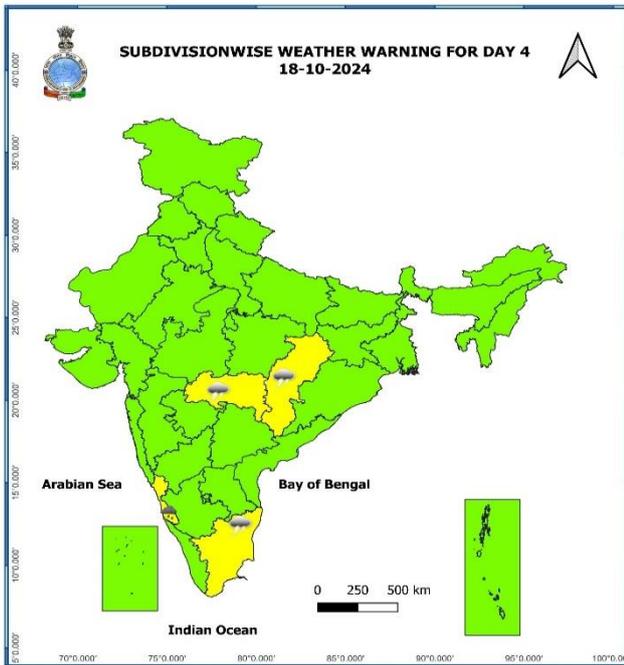
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| Fog | Heavy Snow | Cold Wave | COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) | | | | | | | | | | |
|----------------------|-------------------------------|----------------------|--|-------|-------------------------------|----------|------|--------|---------|-------------|---------|-------------|------|
| Heavy Rain | Dust Storm | Cold Day | | | | | | | | | | | |
| Very Heavy Rain | Heat Wave | Ground Frost | | | | | | | | | | | |
| Extremely Heavy Rain | Warm Night | Hot Day | | | | | | | | | | | |
| Thunder & Lightning | Hot & Humid | Strong Surface Winds | Probabilistic Forecast | | | | | | | | | | |
| Hailstorm | Dust Raising Winds | | | | | | | | | | | | |
| | | | <table border="1"> <thead> <tr> <th>Terms</th> <th>Probability of Occurrence (%)</th> </tr> </thead> <tbody> <tr> <td>Unlikely</td> <td>< 25</td> </tr> <tr> <td>Likely</td> <td>25 - 50</td> </tr> <tr> <td>Very Likely</td> <td>50 - 75</td> </tr> <tr> <td>Most Likely</td> <td>> 75</td> </tr> </tbody> </table> | Terms | Probability of Occurrence (%) | Unlikely | < 25 | Likely | 25 - 50 | Very Likely | 50 - 75 | Most Likely | > 75 |
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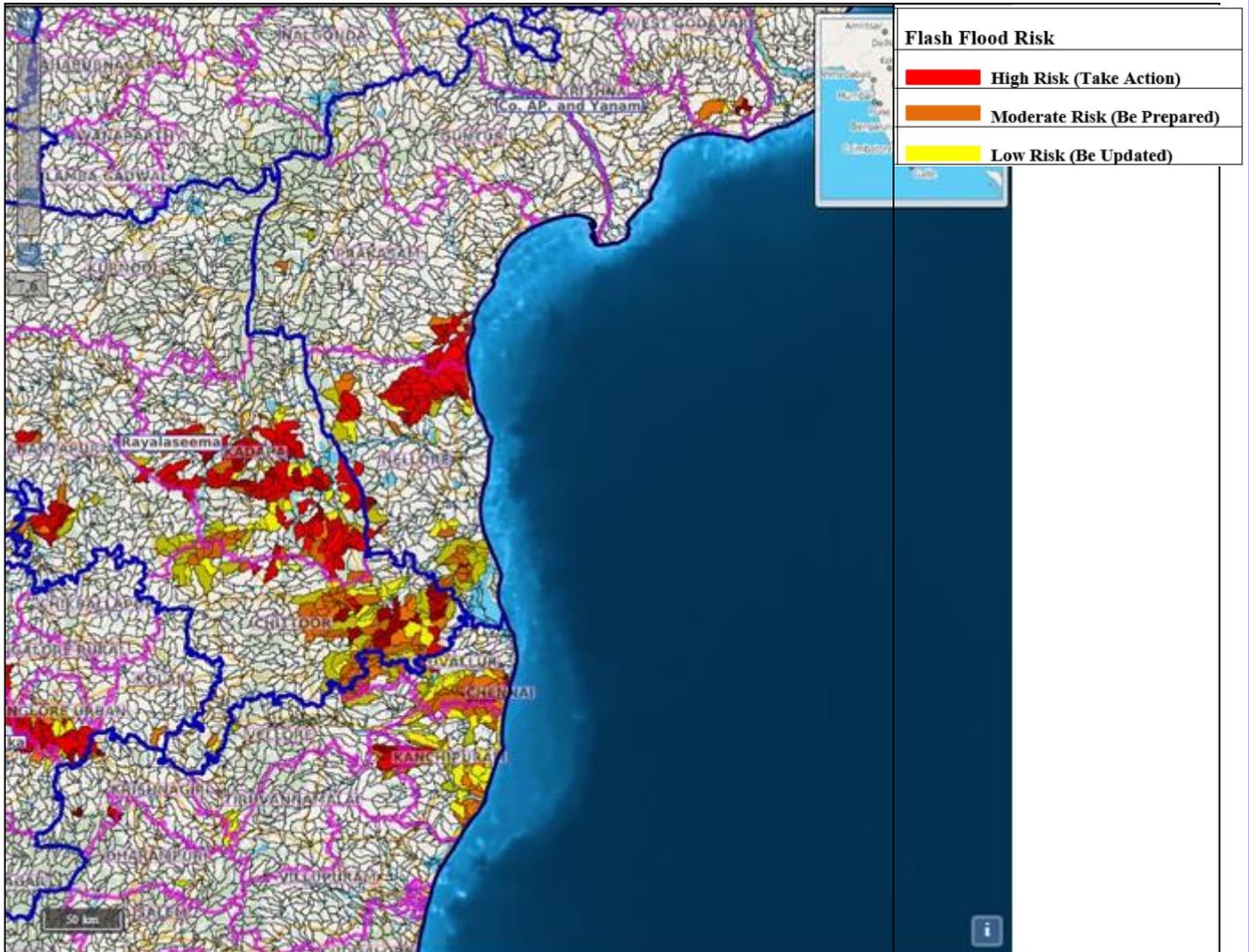
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- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

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Flash Flood Guidance



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 16-10-2024 :

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

Coastal Andhra Pradesh – Nellore and Prakasham district

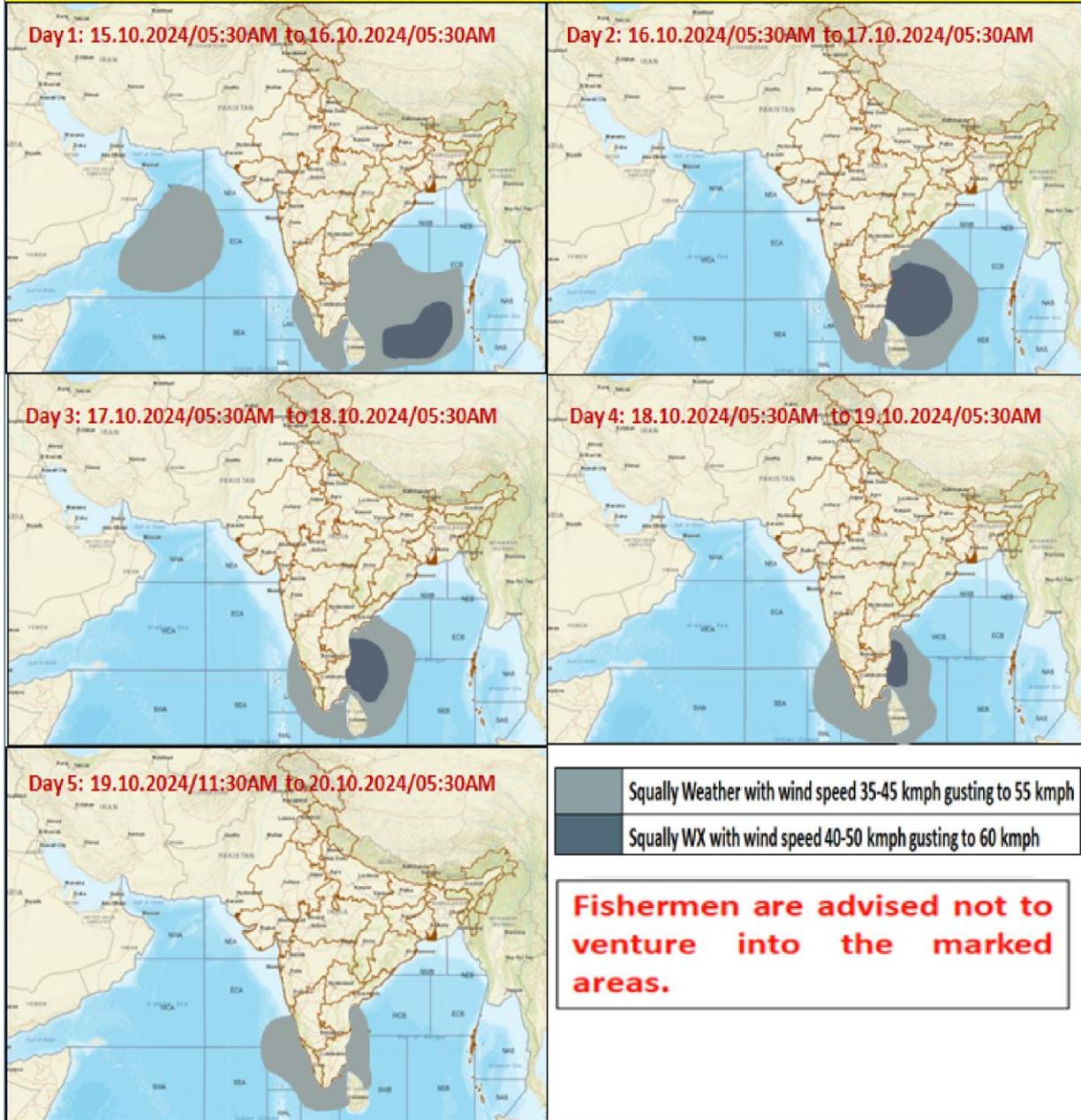
Rayalaseema – Kadapa and Chittoor districts

Tamil Nadu– Thiruvallur, Thruvanamalai, Chennai and Kanchipuram districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over area of concern as shown in map due to expected rainfall occurrence in next 24 hours.

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Fishermen Warning Graphics



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