



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

NATIONAL BULLETIN NO. 17 (BOB/05/2024)

TIME OF ISSUE: 0230 HOURS IST

DATED: 17.10.2024

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, 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)

CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913)

CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176)

CHIEF SECRETARY, LAKSHADWEEP (FAX NO. 04896-268124)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2334145)

Sub: Depression over westcentral and adjoining southwest Bay of Bengal

The depression over southwest and adjoining westcentral Bay of Bengal moved west-northwestwards with a speed of 22 kmph during past 6 hours and lay centered at 2330 hours IST of yesterday, the 16th October 2024 over westcentral and adjoining southwest Bay of Bengal close to south Andhra Pradesh-north Tamil Nadu Coasts, near latitude 13.4° N and longitude 80.8° E, about 80 km east-northeast of Chennai (Tamil Nadu) and 150 km southeast of Nellore (Andhra Pradesh).

It is likely to move west-northwestwards and cross north Tamil Nadu - South Andhra Pradesh coasts between Puducherry and Nellore, close to north of Chennai by early morning of today, 17th October. Thereafter, it is very likely to continue to move west-northwestwards and weaken into a well marked low pressure area over south coastal Andhra Pradesh and adjoining north Tamil Nadu by morning of today, the 17th October.

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
16.10.24/2330	13.4/80.8	35-45 gusting to 55	Depression
17.10.24/1130	13.9/79.5	25-35 gusting to 45	Well Marked Low Pressure Area

Warnings:

(i) Rainfall Warning:

Tamil Nadu & Puducherry: Isolated heavy rainfall likely over north interior Tamil Nadu on 17th October.

South Coastal Andhra Pradesh & Rayalaseema: Heavy rainfall at isolated places is likely on 17th October.

South Interior Karnataka: Heavy rainfall at isolated places is likely on 17th October.

Kerala: Light to moderate rainfall at most places with isolated heavy rainfall is likely over Kerala on 17th October.

(ii) Wind Warning:

Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over southwest and adjoining westcentral Bay of Bengal and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts in early morning of the 17th October.

(iii) Sea Condition:

Rough to very Rough Sea condition is likely to prevail over southwest & adjoining westcentral Bay of Bengal and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till noon of 17th October and improve gradually thereafter.

(iv) Fishermen Warning:

Fishermen are advised not to venture into

- Southwest and adjoining westcentral Bay of Bengal till 17th October.

(v) Flash Flood Guidance:

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 17-10-2024:

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

Coastal Andhra Pradesh & Yanam - Guntur, Prakasam and Nellore districts.

Rayalaseema - Chittoor and Kadapa districts.

Tamil Nadu - Cuddalore, Dharampuri, Krishnagiri, Perambalur, Salem, Tiruchirappalli, Tiruvallur and Vellore 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.

❖ Significant Rainfall (in cm) recorded during past 24 hours till 0830 hours IST of today, the 16th October is given in Annexure-I

❖ 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
 - Southwest and adjoining westcentral Bay of Bengal till 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.

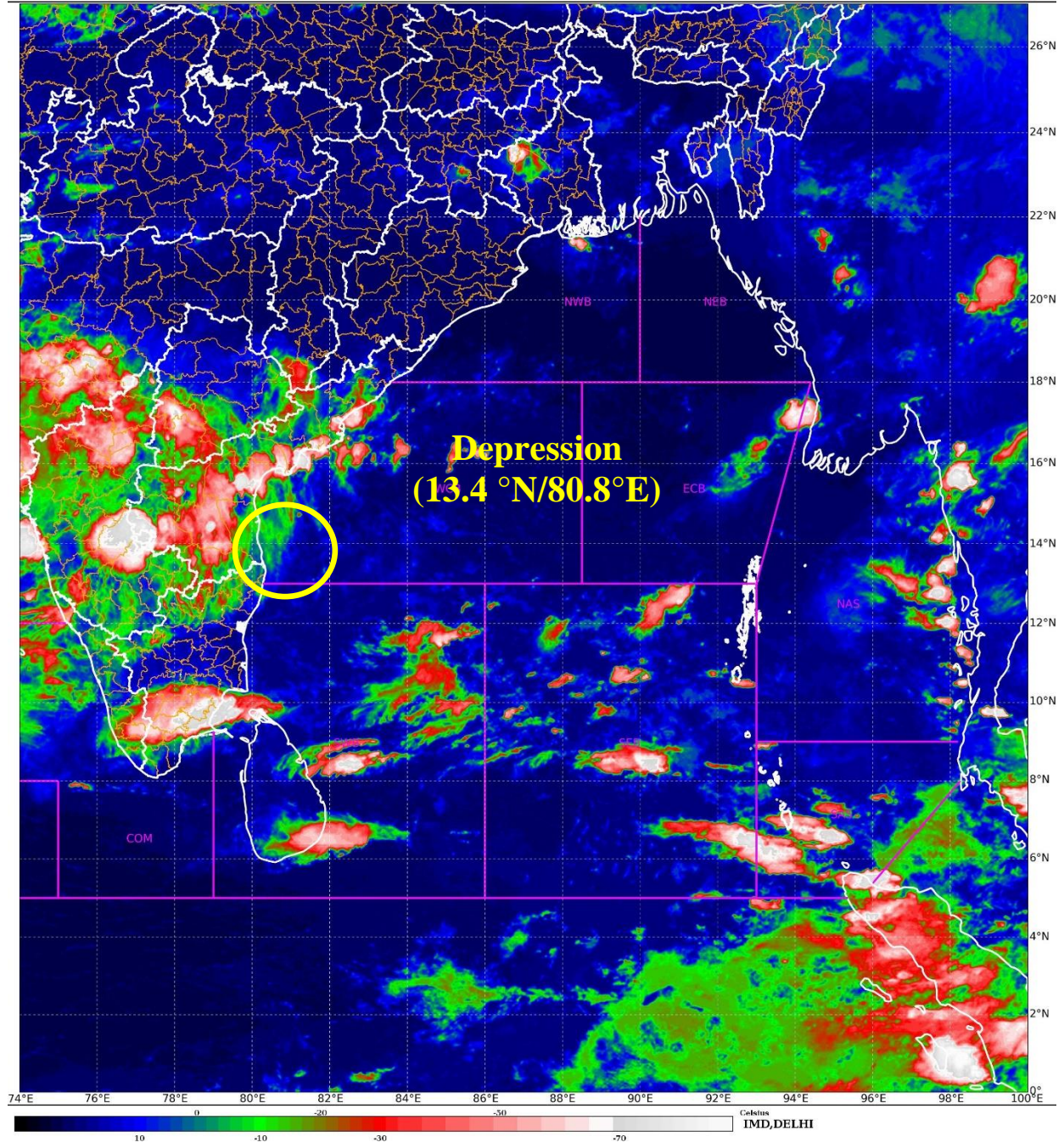
Agromet advisories for Heavy Rainfall

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

Next bulletin will be issued at 0830 hours IST of tomorrow, the 17th October, 2024.

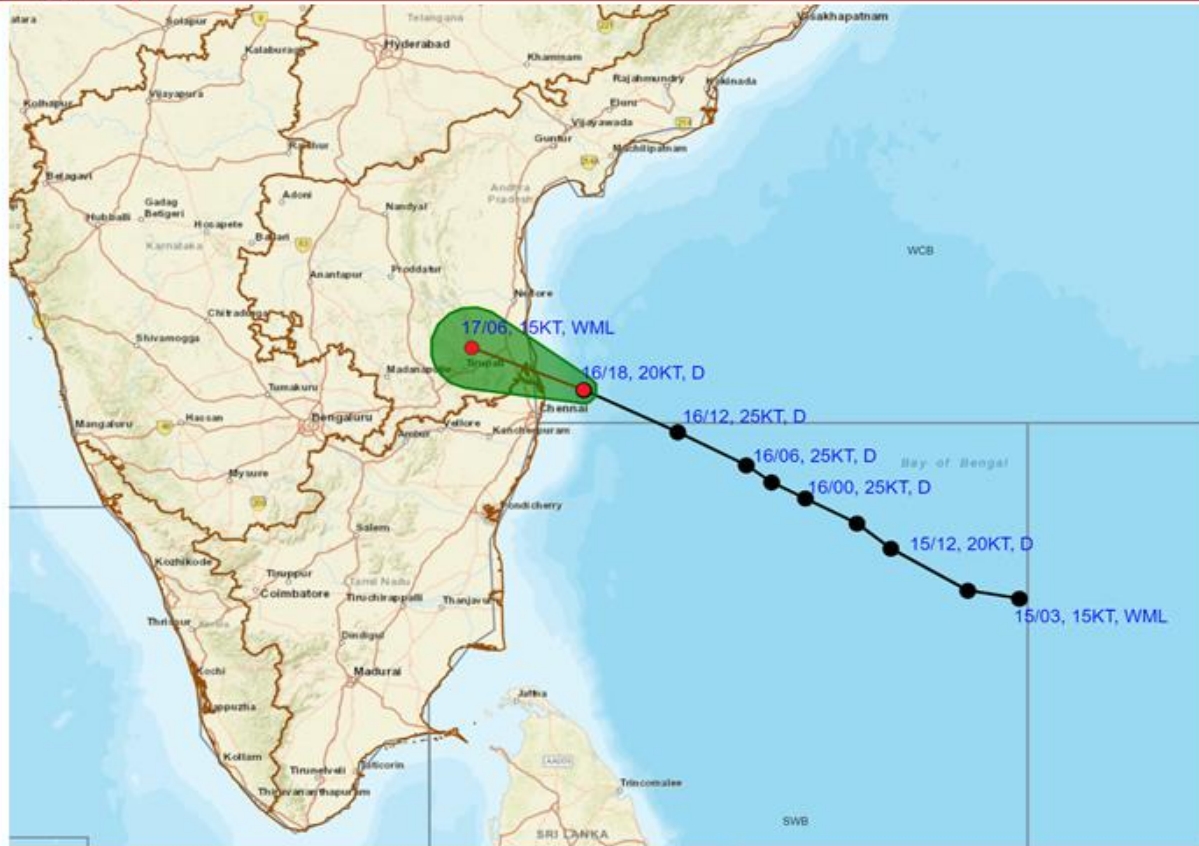
(Johny C J)
Scientist-D, RSMC & IMD, New Delhi

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





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY (COU) OF DEPRESSION OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL BASED ON 1800 UTC (2330 Hrs. IST) OF 16th OCTOBER, 2024

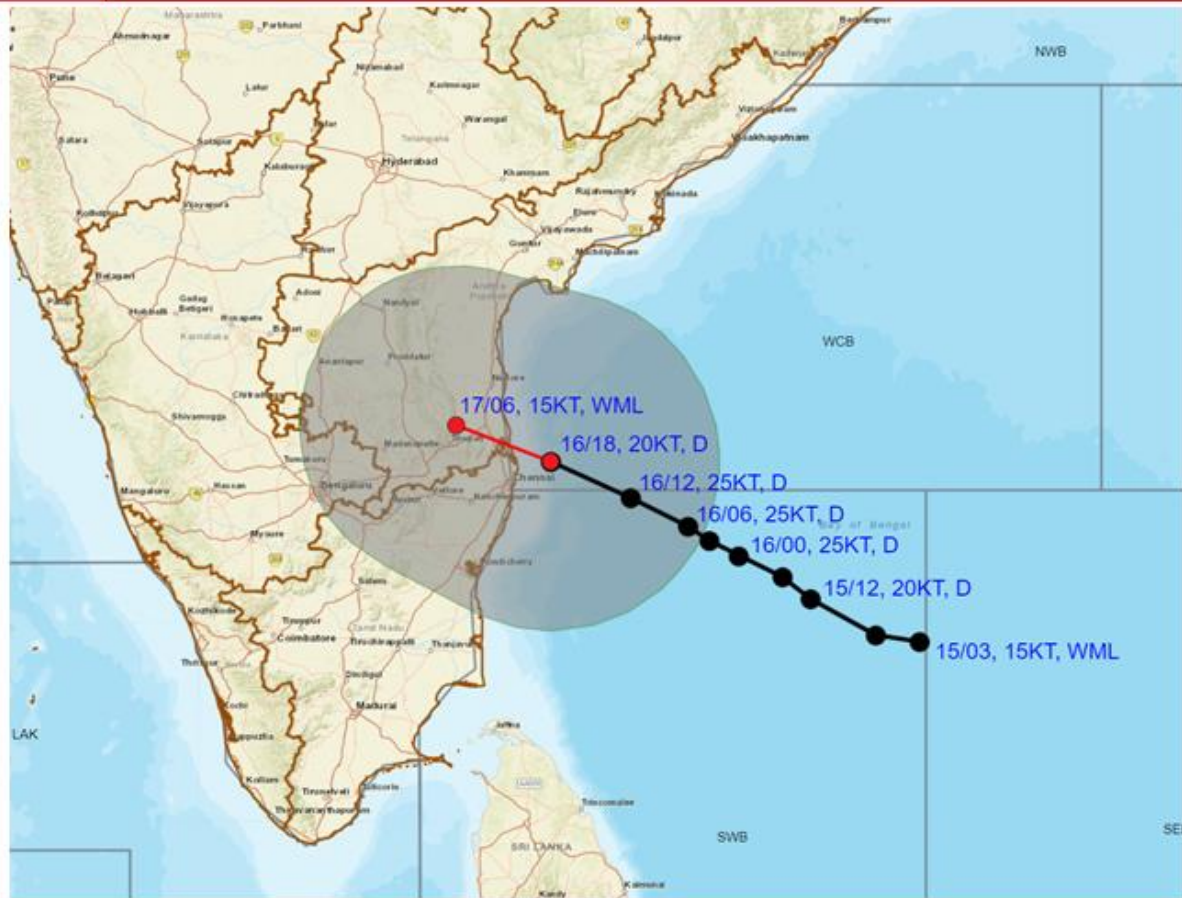


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

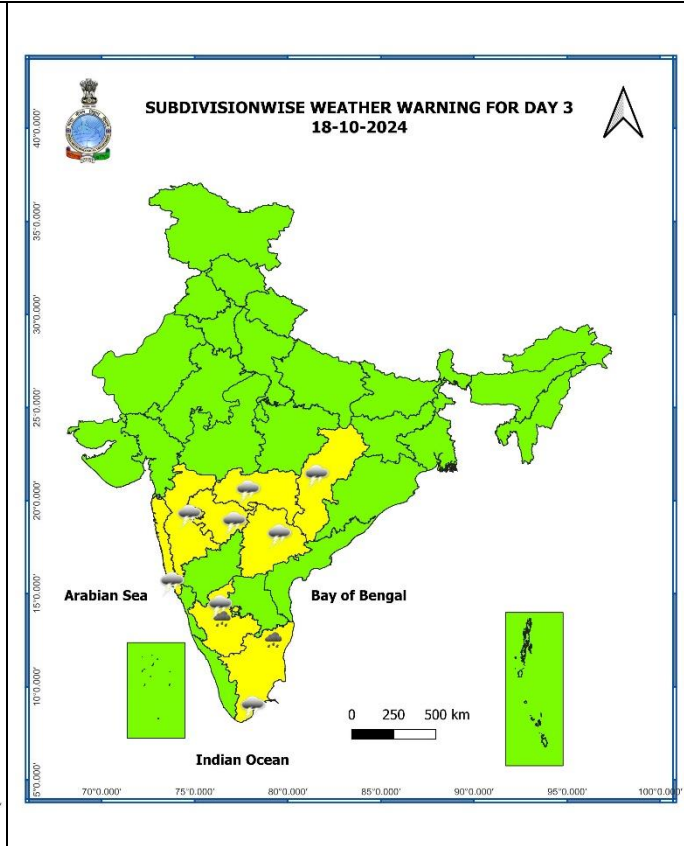
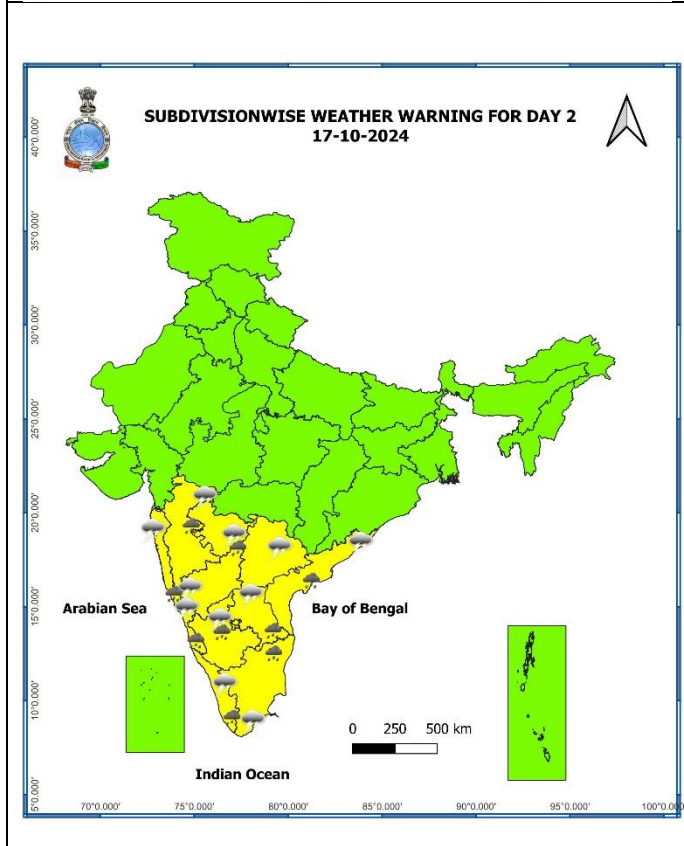
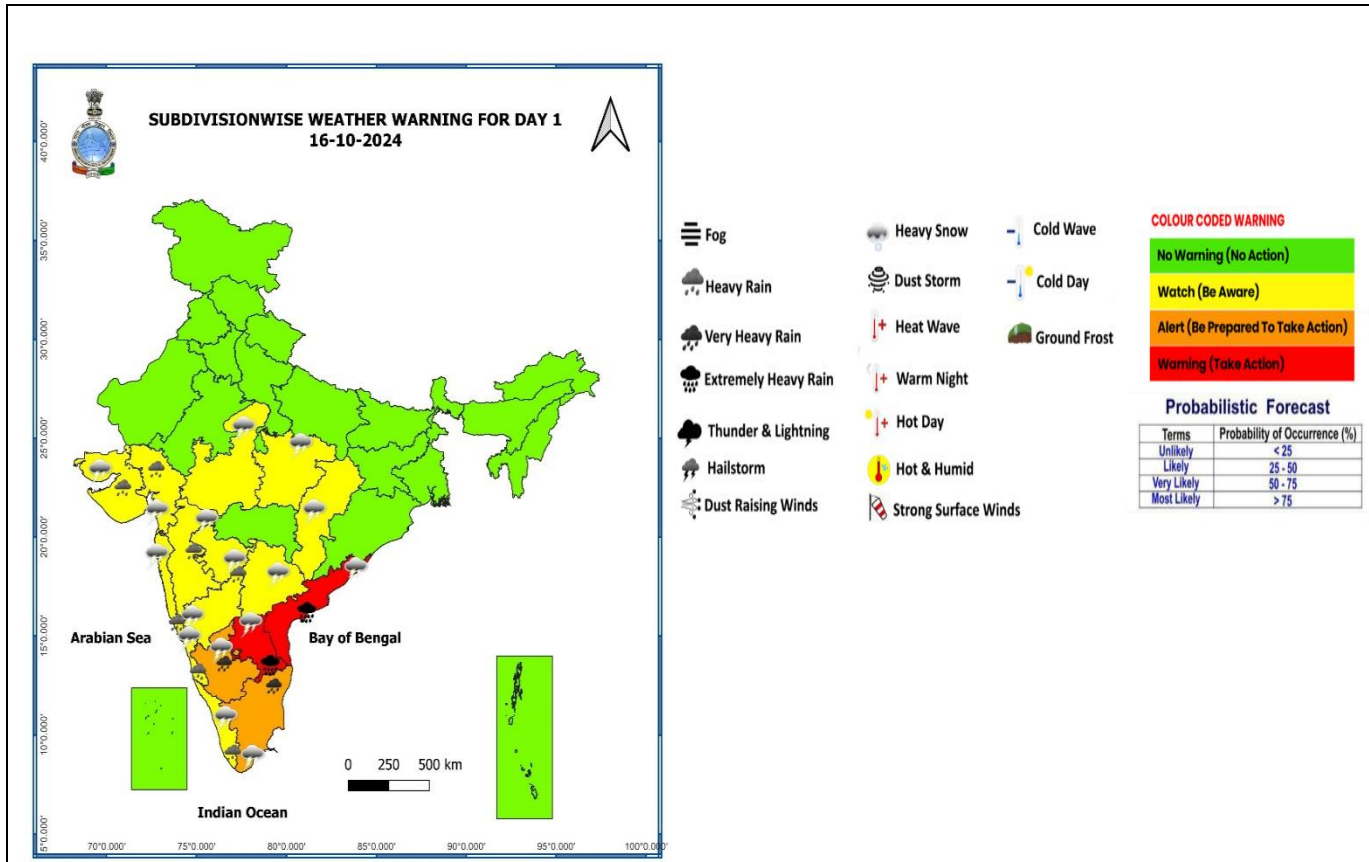


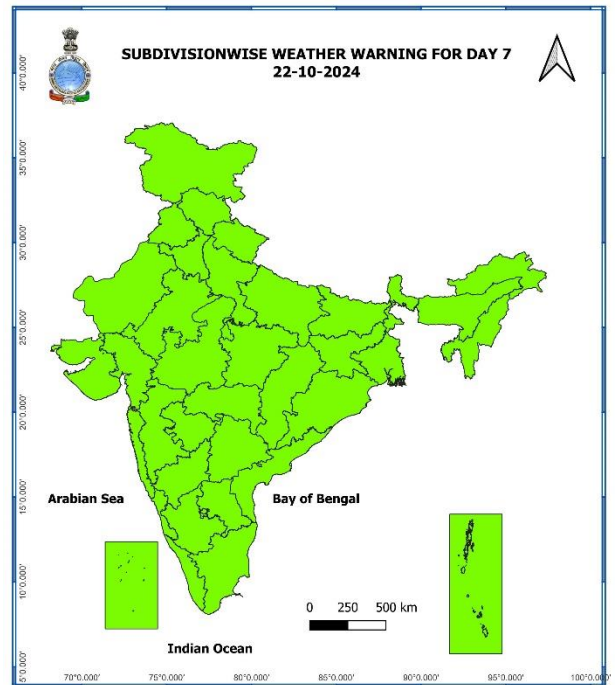
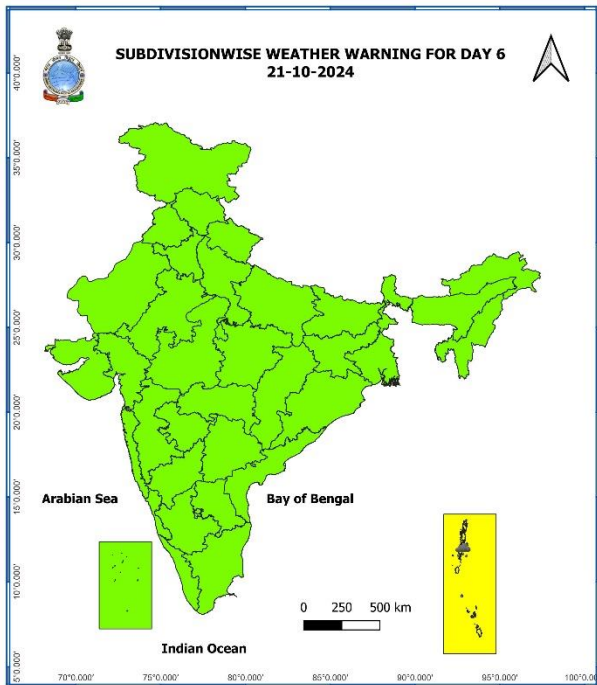
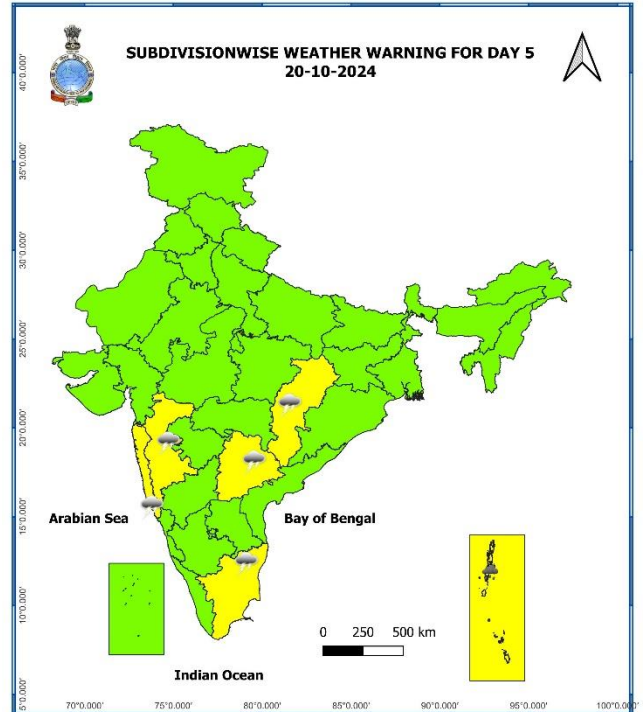
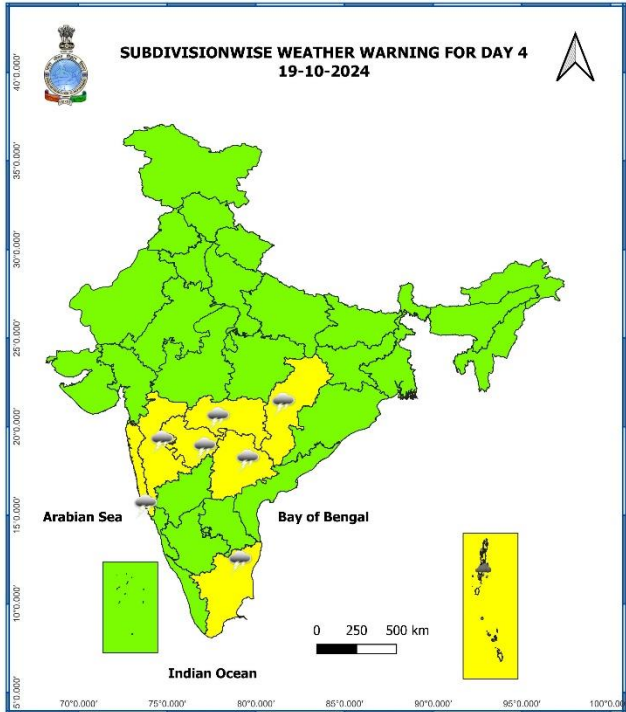
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL BASED ON 1800 UTC (2330 Hrs. IST) OF 16th OCTOBER, 2024



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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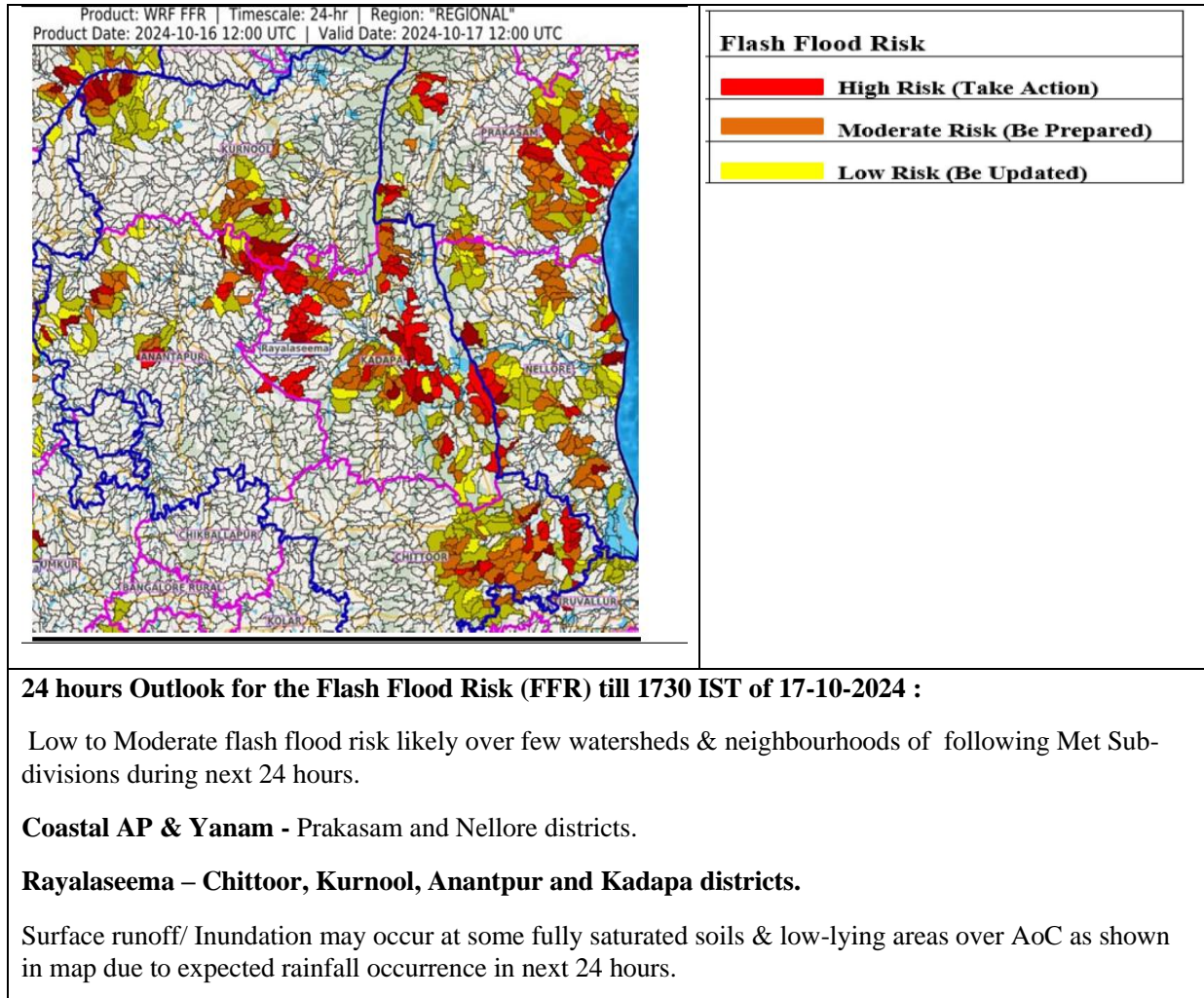
● LESS THAN 34 KT
○ 34-47 KT
● ≥ 48 KT
— OBSERVED TRACK
— FORECAST TRACK
CONE OF UNCERTAINTY
AREA OF MAXIMUM SUSTAINED WIND SPEED:
20-30 KT (35-55 KMPH)



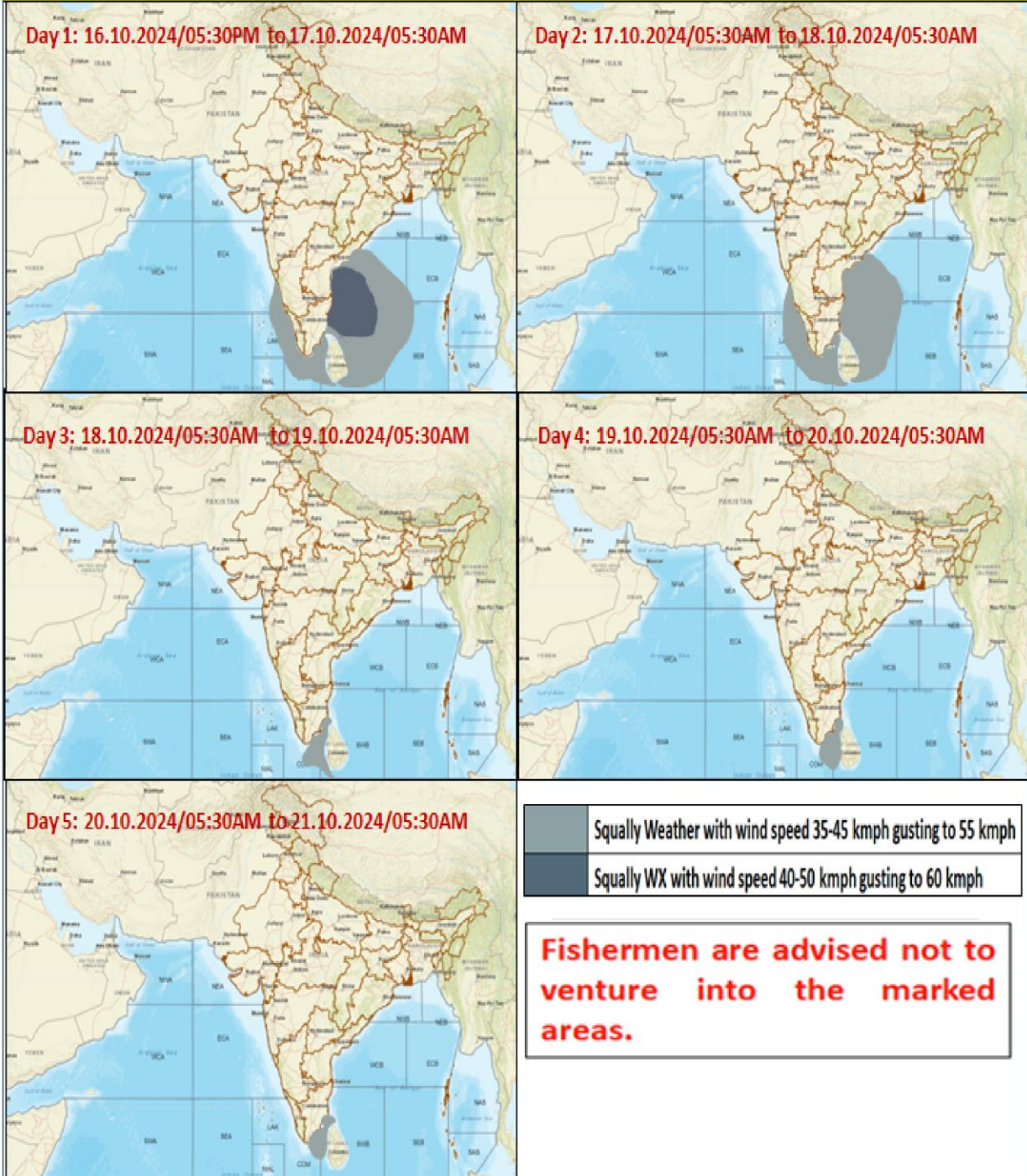


- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance



Fishermen Warning Graphics



ANNEXURE-I

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 16.10.2024 (in cm):

❖ Tamil Nadu, Puducherry & Karaikal:

Extremely heavy rainfall (> 20 cm): Cholavaram (Tiruvallur) 30, Red Hills (Tiruvallur) 28, Avadi (Tiruvallur) 25, Zone 01 Kathivakkam (Chennai) 23, Zone 02 D15 Manali (Chennai) 21,

Very heavy rainfall (20 cm ≤ and ≥ 12cm): Zone 06 T.V.K Nagar (Chennai) 19, Zone 06 D65 Kolathur (Chennai), Zone 13 U39 Adyar (Chennai), Puzhal ARG (Tiruvallur), Zone 07 Ambattur (Chennai) 18 each, Zone 01 Thiruvottiyur (Chennai), Perungudi (Chennai), Zone 02 Manali (Chennai), Hindustan_University (Kancheepuram), Ennore AWS (Chennai) 17 each, Perambur (Chennai), Zone 08 Malar Colony (Chennai), Good Will School Villivakkam ARG (Tiruvallur), Zone 03 Puzhal (Chennai), Ayanavaram Taluk Office (Chennai), Anna University ARG (Chennai), Ponneri (Tiruvallur), Thamaraipakkam (Tiruvallur) 16 each, Ambathur (Chennai), Anna University (Chennai), MGR Nagar (Chennai), Sholinganallur (Chennai), Thiru-Vi-Ka Nagar (Chennai), Tondiarpet (Chennai), Zone 05 Royapuram (Chennai), Adayar (Chennai) 15 each, Zone 03 Madhavaram (Chennai), Zone 04 Tondiarpet (Chennai), Chennai(N) AWS (Chennai), Chennai (N) (Chennai), CD Hospital Tondiarpet (Chennai), YMCA Nandnam ARG (Chennai), Kodambakkam (Chennai) 14 each, Zone 08 Anna Nagar (Chennai), Anna Nagar (Chennai), Zone 07 U18 D81 Vanagaram (Chennai), Chennai Collector Office (Chennai), Zone 10 Kodambakkam (Chennai), DGP Office (Chennai), Royapuram (Chennai) 13 each, Zone 09 Ice House (Chennai), NIOT_Pallikaranai ARG (Chennai), Zone 09 Teynampet (Chennai), Teynampet (Chennai), Alandur (Chennai), Chennai (AP) (Chennai), Meenambakkam AWS (Chennai), Zone 11 U32 Maduravoyal (Chennai) 12 each,

Heavy rainfall (11 cm ≤ and ≥ 7cm): Zone 12 Meenambakkam (Chennai), Kolapakkam ARG (Kancheepuram), Zone 11 Valasaravakkam (Chennai), Zone 15 Uthandi (Chennai), Zone 05 GCC (Chennai), Tiruvottiyur (Chennai), Zone Adyar Eco Park (Chennai) 11 each, Zone 12 D156 Mugalivakkam (Chennai), Jaya Engg College AWS (Tiruvallur), Zone 14 Perungudi (Chennai), Zone 15 Sholinganallur (Chennai), Tiruppur IB PWD (Tiruppur) 10 each, Gummidipoondi (Tiruvallur), Zone 14 U41 Perungudi (Chennai), Uthukottai (Tiruvallur), Manimutharu Dam PWD (Kallakurichi), Tiruvallur (Tiruvallur), KCS Mill-2 Kachirayaopalayam (Kallakurichi), Mahabalipuram (Chengalpattu), Satyabama Uty ARG (Kancheepuram), Poonamallee (Tiruvallur), Chembarabakkam (Kancheepuram) 9 each, Zone Adyar (Chennai), ACS Medical College ARG (Kancheepuram), Bhuvanagiri (Cuddalore), VIT_Chennai AWS (Chengalpattu), RSCL-2 Valavanur (Villupuram), Mahabalipuram AWS (Chengalpattu), Koratur (Tiruvallur), RSCL-2 Koliyanur (Villupuram) 8 each, Uthangarai (Krishnagiri), Tiruttani (Tiruvallur), Pallipattu (Tiruvallur), Kundrathur (Kancheepuram), Tambaram (Chengalpattu), Tiruppur South (Tiruppur) 7 each;

❖ **Rayalaseema:** Sullurpeta (Tirupati) 22, Tada (Tirupati) 12, Tirupati Aero (Tirupati) 11, Satyavedu (Tirupati) 10, Porumamilla (Ysr District) 9, Srikalahasti (Tirupati) 8, Thottambedu (Tirupati) 8, Venkatagiri (Tirupati) 8, Penagaluru (Annamayya District) 8, Kodur (Ysr District) 8, Nagari (Chittoor) 8, Gudur (Tirupati) 7, Pullampeta (Annamayya District) 7;

❖ **Coastal Andhra Pradesh & Yanam:** Kavali (Nellore) 18, Nellore (Nellore) 13, Kandukur (Nellore) 10, Seetharamapuram (Nellore) 10, Vinjamur (Nellore) 9, Udayagiri (Nellore) 9;

❖ **South Interior Karnataka:** Bengaluru Hal Ap Obsy (Bengaluru Urban) 9, Hesaraghatta (Bengaluru Urban) 7, Bellur (Mandya) 7, Bengaluru City Obsy (Bengaluru Urban) 7;