

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 40 (BOB/07/2024)

TIME OF ISSUE: 0215 HOURS IST DATED: 02.12.2024

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Sub: Depression (Remnant of Cyclonic Storm "FENGAL") over north coastal Tamil Nadu

The Depression (Remnant of Cyclonic Storm "FENGAL") over north coastal Tamil Nadu & Puducherry moved west-northwestwards with a speed of 7 kmph during past 06 hours and lay centered at 2330 hours IST of yesterday, the 1st December 2024, over the north coastal Tamil Nadu near latitude 12.2°N and longitude 79.2°E, about 40 km northwest of Villupuram, 70 km west-northwest of Puducherry, about 80 km northwest of Cuddalore and 140 km southwest of Chennai.

It is likely to continue to move west-northwestwards and weaken gradually into a Well Marked Low pressure area over north interior Tamil Nadu during the next 6 hours. The remnant low pressure area is likely to emerge over southeast and adjoining east-central Arabian Sea off north Kerala-Karnataka coasts around 3rd December 2024.

The system is being continuously monitored by the Doppler Weather Radar at Karaikal.

Warnings:

(i) Rainfall Warning:

Tamil Nadu & Puducherry: Light to moderate rainfall at few places with **heavy to very rainfall at** isolated places is very likely over North Tamil Nadu & Puducherry on 1st & 2nd December and **heavy rainfall** at isolated places over the interior districts of Tamil Nadu adjoining to Kerala on 03rd December.

Rayalaseema: Light to moderate rainfall at many places with **heavy rainfall** at isolated places is very likely on 01st and 2nd December.

South Interior Karnataka: Light to moderate rainfall at many places with **heavy rainfall** at isolated places is very likely on 01st & 3rd December and heavy to very heavy rainfall at isolated places is very likely on 2nd December.

Coastal Karnataka: Light to moderate rainfall at many places with **heavy rainfall** at isolated places is very likely on 2nd and 3rd December.

Kerala: Light to moderate rainfall at a few places with isolated heavy to very heavy rainfall is likely on 1st December. Rainfall activity will increase with light to moderate rainfall at most places with heavy to very heavy rainfall at a few places & extremely heavy at isolated places on 2nd and heavy rainfall at isolated places on 3rd December.

(ii) Wind warning:

- Southwest Bay of Bengal and along & off North Tamil Nadu Puducherry coasts: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing. It is likely to decrease becoming squally wind speed reaching 35-45 kmph gusting to 55 kmph from morning of 2nd December and decrease gradually thereafter.
- Adjoining areas of westcentral Bay of Bengal and along & off South Andhra Pradesh
 coast: Squally wind speed reaching 30-40 kmph gusting to 50 kmph is likely to prevail over
 adjoining areas of westcentral Bay of Bengal till morning of 2nd December. It is likely to decrease
 thereafter.
- Along & off South Tamil Nadu coast and Gulf of Mannar: Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail till 2nd December and gradually decrease thereafter.

(iii) Sea condition:

Rough Sea conditions is likely to prevail over southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, and along & off North Tamil Nadu-Puducherry coasts, Gulf of Mannar, along & off South Andhra Pradesh and north Sri Lanka coasts till morning of 2nd December. It will gradually improve thereafter.

(iv) Fisherman warning (Graphics Attached):

- Total suspension of fishing operations till 1st December over southwest and adjoining westcentral Bay of Bengal.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and North Sri Lanka coasts till 1st December.

(v) Flash Flood Guidance (Graphics Attached):

Persistent Flash Flood Threat (PFFT) till 2330 IST of 01-12-2024 :

Moderate flash flood threat likely over few watersheds & neighbourhoods of following Met Subdivisions during next 6 hours. Rayalaseema - Chittoor district. Tamil Nadu - Puducherry & Karaikal - Dharampuri, Krishnagiri, Tiruvannamalai, Vellore and Villupuram districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map (Annexure) due to expected rainfall occurrence in next 6 hours

(vi) Impact Expected:

- Major damage to Kutcha and minor damage to Pucca roads.
- Some damage to paddy crops, banana, papaya, drum sticks (moringa) trees and orchards.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Damage to horticulture and standing crops including vegetable crops in some areas due to inundation.

(vii) Action Suggested:

- Total suspension of fishing operations till 1st December.
- Fishermen are advised not to venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and North Sri Lanka coasts till 1st December.
- The ships plying over the area need to regulated.
- 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.
- Special care may be taken for fishing ponds and poultries over coastal areas.
- Avoid staying in vulnerable structure.

(viii) Agromet advisories:

Provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric, tobacco and vegetable fields, coconut and banana orchards. Provide mechanical support to banana plants to prevent lodging.

- Make arrangements to drain out excess water from the standing crop fields and fruit orchards.
- Harvest the matured crops and keep it in safe place.
- Provide mechanical support to horticultural crops and staking to vegetable crops.

Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of today) (in cm):

Tamil Nadu, Puducherry & Karaikal: Tiruvannamalai 15, Yercaud 7, Tiruppattur, Dharmapuri, Cuddalore 3 each, Vellore, Parangipettai, Salem 2 each;

Kerala & Mahe: Ranni_Chethackal (Pathanamthitta), Seethathode (Pathanamthitta), Laha (Pathanamthitta) 7 each, Kunnamthanam (Pathanamthitta) 5; Kottayam, Konni (Pathanamthitta), Thycattussery (Alappuzha) 3 each, Kumarakom_Afmu (Kottayam) 2;

Coastal Andhra Pradesh & Yanam: Chittor 4;

Rayalaseema: Arogyavaram 2.

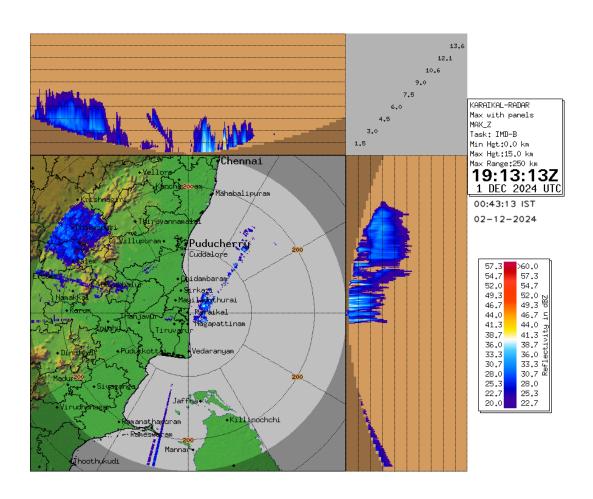
Next bulletin will be issued at 0530 hours IST of today, the 2nd December, 2024.

(Dr Trisanu Banik) Scientist D, RSMC, New Delhi

Copy to: ACWC Kolkata/ACWC Chennai/CWC Bhubaneswar/MC, Amaravati/MC, Thiruvananthapuram/CWC, Vishakhapatnam

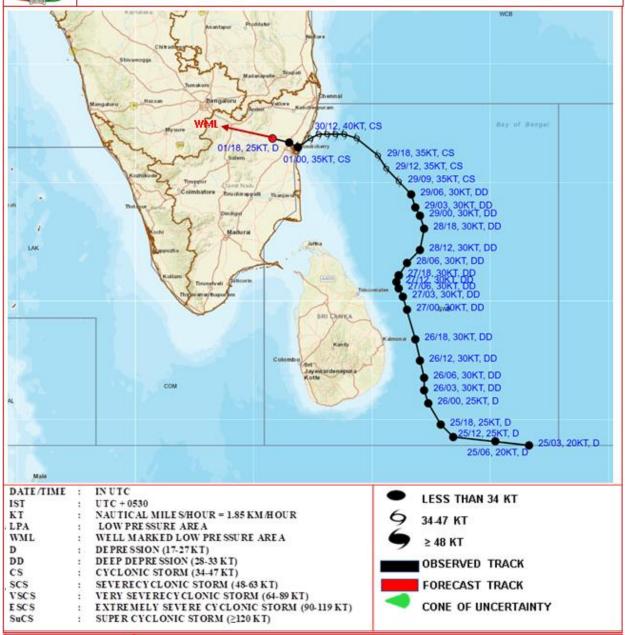
Celsius IMD,DELHI

MAXIMUM REFLECTIVITY IMAGERY FROM DOPPLER WEATER RADAR, KARIKAL



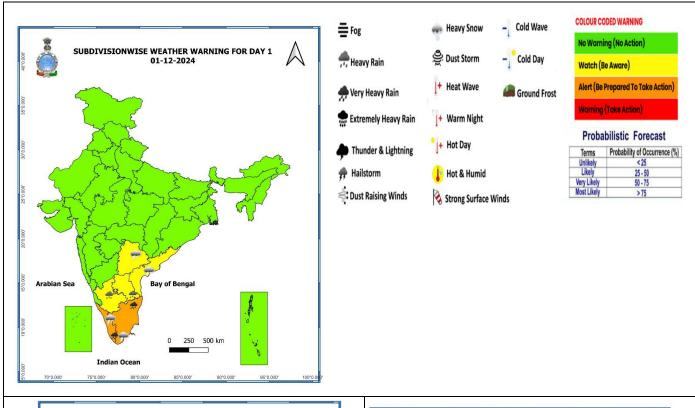


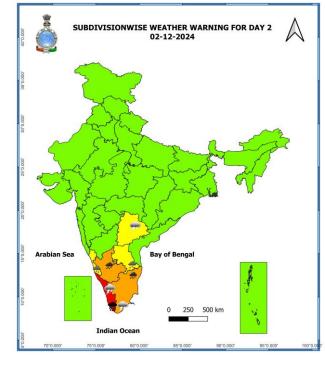
OBSERVED AND FORECAST TRACK ALONG WITH CONE OF UNCERTAINITY OF DEPRESSION (REMNANT OF CYCLONIC STORM "FENGAL") OVER NORTH COASTAL TAMIL NADU BASED ON 1800 UTC (2330 HRS. IST) OF 01st DECEMBER, 2024.

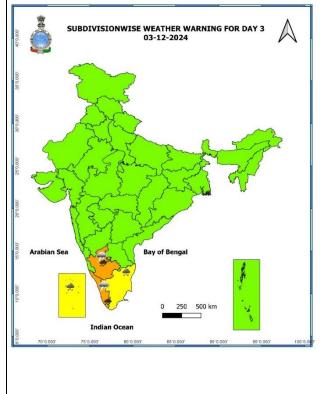


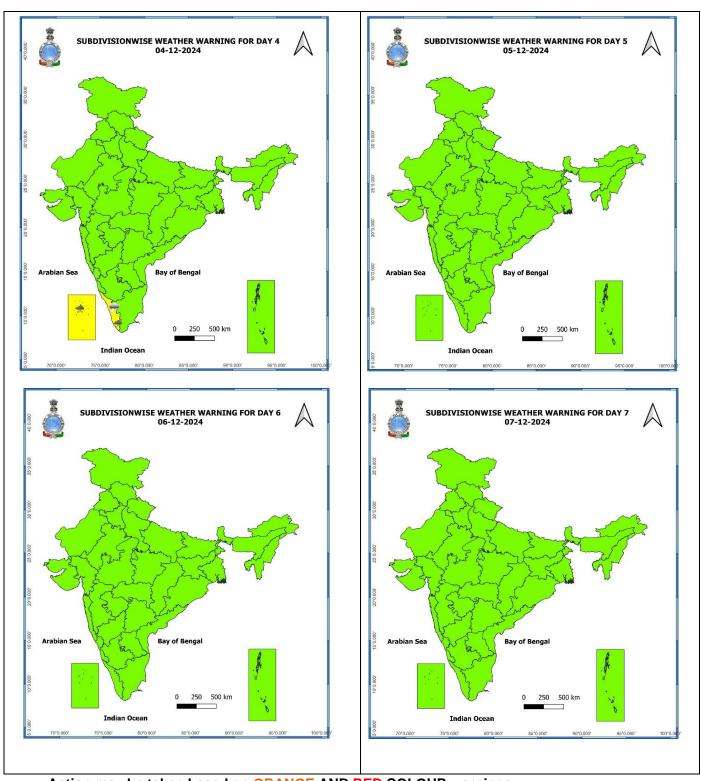
Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS			
Date and Time (UTC)	VILLUPURAM	MO PUDUCHERRY	CHENNAI/MINAMBA KKAM	CUDDALORE
01.12.24/1800	40,NW	70, WNW	140, SW	80, NW

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

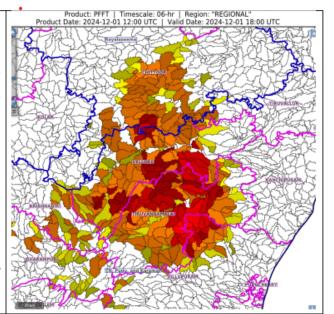
Persistent Flash Flood Threat (PFFT) till 2330 IST of 01-12-2024:

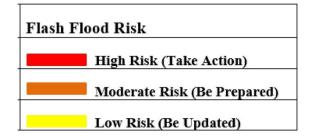
Moderate flash flood threat likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 6 hours.

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Tamil Nadu - Puducherry & Karaikal Dharampuri, Krishnagiri, Tiruvannamalai,
Vellore and Villupuram districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 6 hours.









Fishermen Warning Graphics Day 1: 01.12.2024/11:30AM to 02.12.2024/05:30AM Day 2: 02.12.2024/05:30AM to 03.12.2024/05:30AM Day 3: 03.12.2024/05:30AM to 04.12.2024/05:30AM Day 4: 04.12.2024/05:30AM to 05.12.2024/05:30AM Day 5: 05.12.2024/05:30AM to 06.12.2024/05:30AM Squally Weather with wind speed 35-45 kmph gusting to 55 kmph Squally wind with speed 45-55 kmph gusting to 65 kmph Deep depression with wind speed 55-65 kmph gusting to 75 kmph Fishermen are advised not to venture into the marked areas.