



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO. 26 (BOB/09/2022)

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FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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Sub.: Deep Depression (remnant of the cyclonic storm "Mandous" pronounced as "Man-Dous") over north Tamil Nadu

The Deep Depression (remnant of the cyclonic storm "Mandous" pronounced as "Man-Dous") over north Tamil Nadu moved nearly west-southwestwards with a speed of 09 kmph during past 06 hours and lay centred at 0830 hours IST of today, the 10th Dec, over north Tamil Nadu near latitude 12.8°N and longitude 79.5°E, about 40km west-southwest of Vellore and 140 km east-northeast of Krishnagiri. It is very likely to move nearly west-southwestwards and gradually weaken into a depression during next 6 hours.

Warnings:

(i) Rainfall (warning graphics enclosed)

- ❖ **10th December:-** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places likely over Rayalaseema, north Tamil Nadu and south interior Karnataka.

(ii) Wind warning:

- ❖ **Southwest Bay of Bengal and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts:-** Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely to prevail till noon and to reduce thereafter becoming 30-40 kmph gusting to 50 kmph by 10th December evening.

(iii) Sea condition

- ❖ **Sea condition** likely to be **rough to very rough** over **Southwest Bay of Bengal and adjoining areas of westcentral Bay of Bengal, along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts** till evening of 10th December.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into:

- ❖ Southwest Bay of Bengal and adjoining areas of westcentral Bay of Bengal, along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 10th December evening.

(vi) Damage expected over north Tamil Nadu, Rayalaseema and South Interior Karnataka during next 3 hours.

- ❖ Damage to banana, papaya trees and near coastal agriculture due to salt spray.
- ❖ Damage to paddy, other standing crops and horticulture crops.
- ❖ Inundation/localized flooding in low lying areas due to heavy rains
- ❖ Traffic may be disrupted due to poor visibility in association with heavy rain

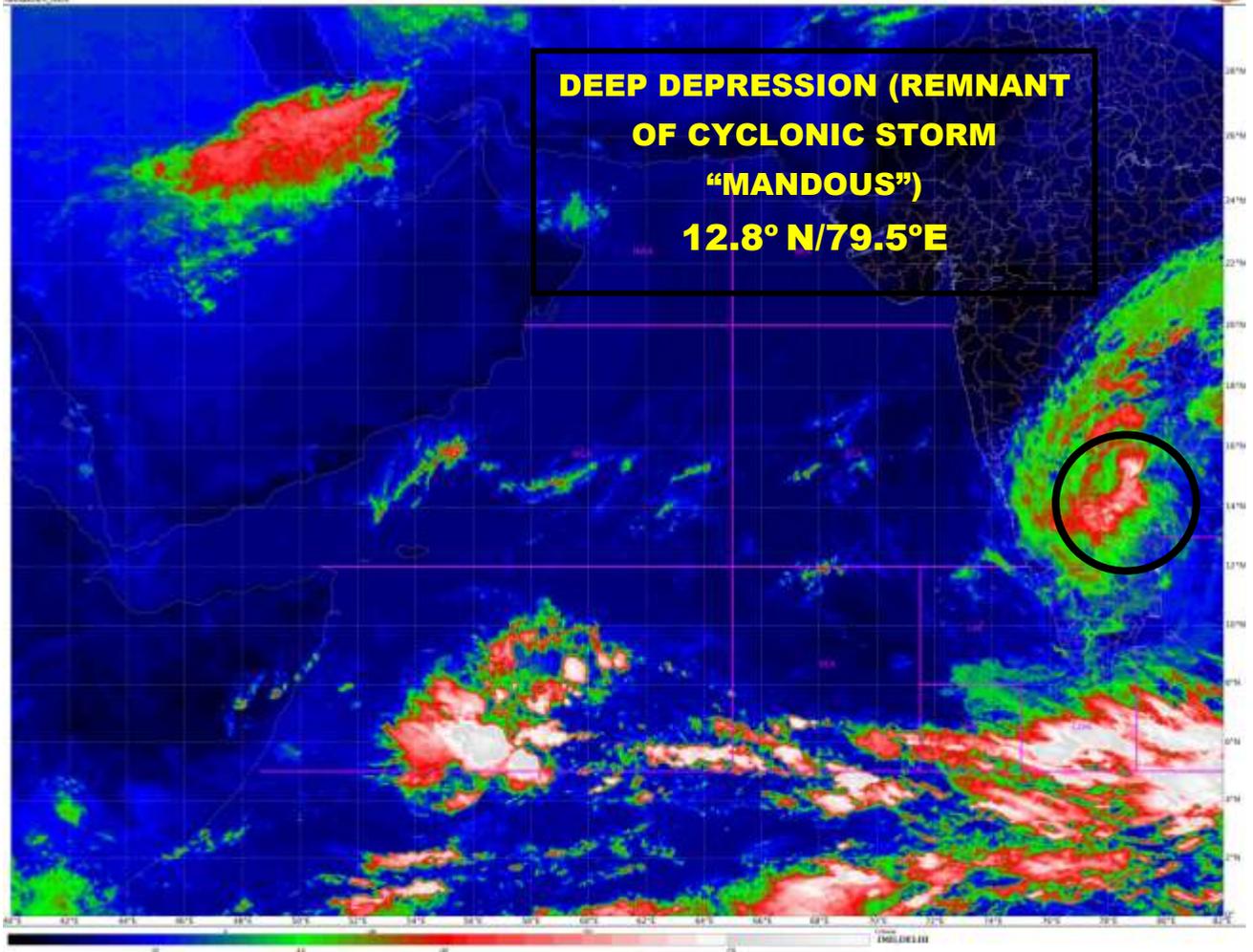
(vii) Action suggested over north Tamil Nadu, Rayalaseema and South Interior Karnataka

- ❖ Fisherman are advised not to venture into Southwest Bay of Bengal and adjoining areas of westcentral Bay of Bengal, along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 10th December evening.
- ❖ People are advised to be cautious while going outside.
- ❖ Regulate traffic.
- ❖ People should not move nearby to vulnerable structures.

System is under continuous surveillance and the next bulletin will be issued at 1430 hours IST of 10th Dec, 2022.

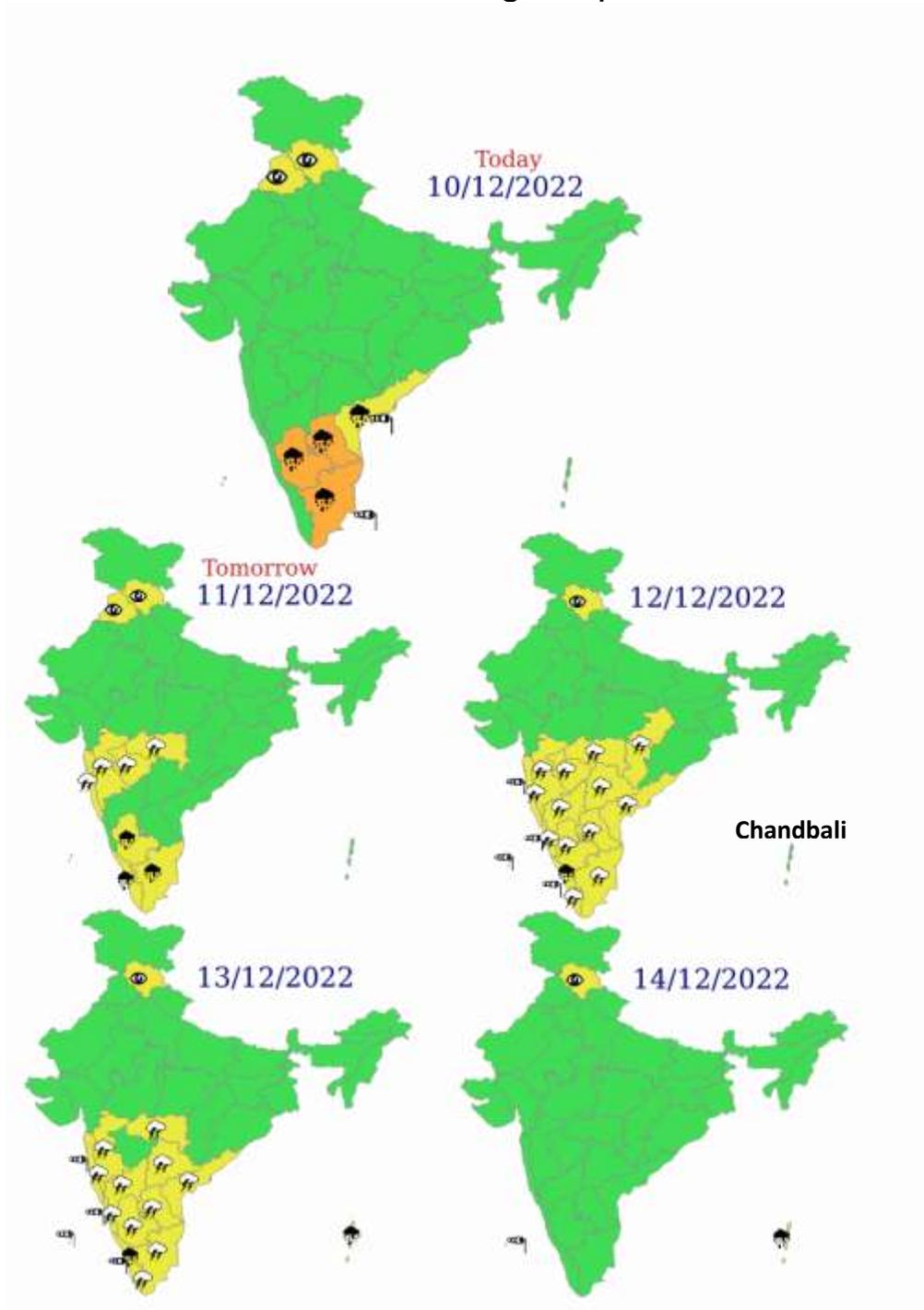
**(DR RK JENAMANI)
Scientist F, Cyclone Warning Division, New Delhi**

Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/MO Port Blair



**DEEP DEPRESSION (REMNANT
OF CYCLONIC STORM
"MANDOUS")
12.8° N/79.5°E**

Multi hazard Warning Graphics



LEGEND: 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.

WARNING		Probabilistic Forecast		Heavy Rain	Heavy Snow	Thunderstorm	Dust Storm
WARNING (TAKE ACTION)	Alert (BE PREPARED)	Terms	Probability of Occurrence (%)	Strong Winds	Visibility	Cyclone	Squall/ Hail
WATCH (BE UPDATED)	NO ACTION	Unlikely	< 25	Frost	Cold Wave	Heat Wave	Sea State
		Likely	25 - 50				
		Very Likely	51 - 75				
		Most Likely	> 75				



OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION REMNANT OF CYCLONIC STORM 'MANDOUS' OVER NORTH TAMILNADU BASED ON 0300 UTC OF 10th DECEMBER, 2022.



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 (\geq 120 KT)



LESS THAN 34 KT



34.47 KT



\geq 48 KT



OBSERVED TRACK



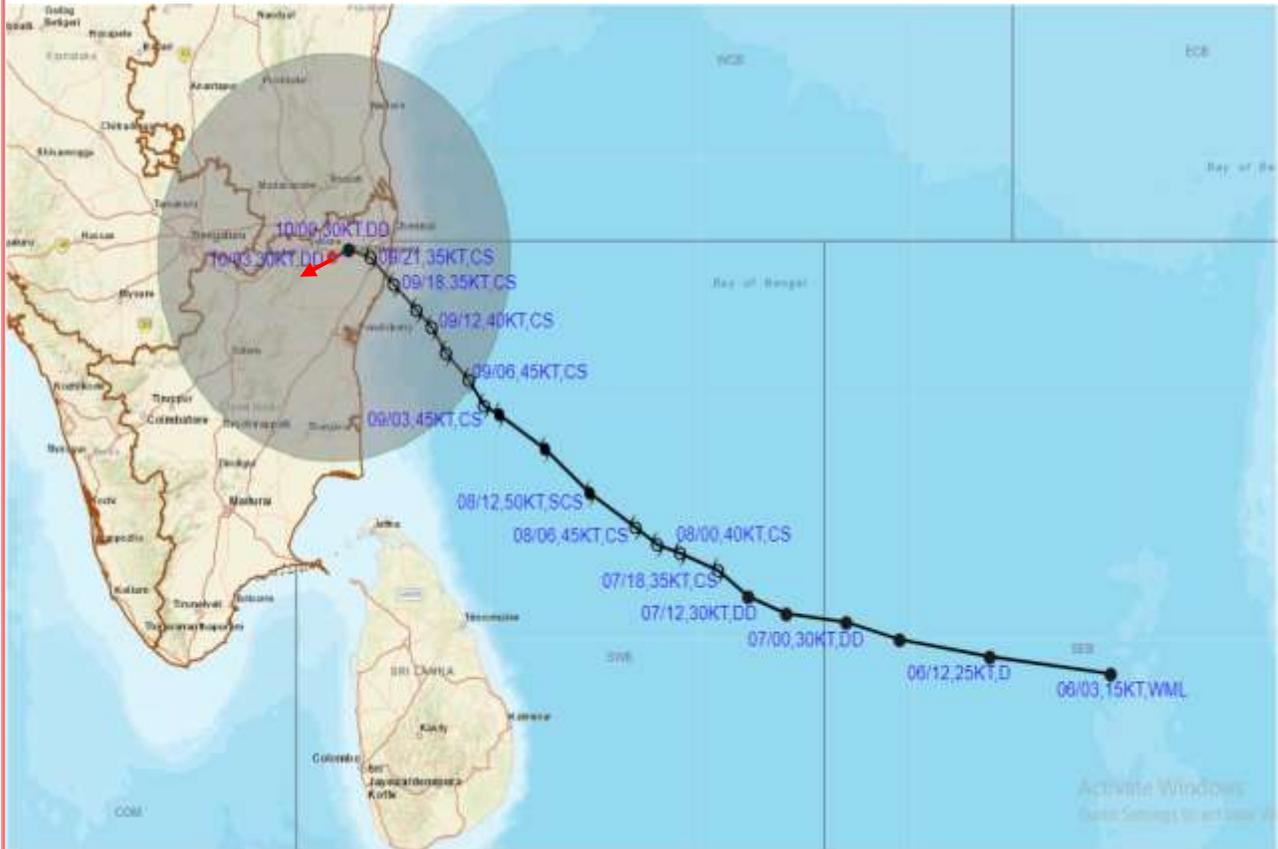
FORECAST TRACK



CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION REMNANT OF CYCLONIC STORM 'MANDOUS' OVER NORTH TAMILNADU BASED ON 0300 UTC OF 10th DECEMBER, 2022



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 (≥20 KT)

● LESS THAN 34 KT
 ○ 34-47 KT
 ● ≥ 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 — CONE OF UNCERTAINTY
 AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

Fishermen warning graphics



- Squally weather with wind speed 40-45 kmph gusting to 55 kmph
- Squally wind with wind speed 45-55 kmph gusting to 65 kmph
- Squally wind speed with wind speed 50-60 kmph gusting to 70 kmph

Fishermen are advised not to venture into the marked areas.