

India Meteorological Department (Ministry of Earth Sciences)

BULLETIN NO. 25 (BOB/09/2022)

DATED: 10.12.2022

TIME OF ISSUE:0610 HOURS IST

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Sub.: Cyclonic Storm "Mandous" pronounced as "Man-Dous" weakened into a Deep Depression over north Tamil Nadu.

The cyclonic storm "Mandous" pronounced as "Man-Dous" over north coastal Tamil Nadu moved northwestwards with a speed of 15 kmph during past 06 hours and weakened into a Deep Depression over north Tamil Nadu and lay centered at 0530 hrs IST of 10th December near latitude 13.0°N and longitude 79.7°E, about 70 km northwest of Mamallapuram (Mahabalipuram) and 50 km west of Chennai.

It is very likely to move nearly west-northwestwards and gradually weaken into a Depression by noon of 10th December.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
10.12.22/0530	13.0/79.7	55-65 gusting to 75	Deep Depression
10.12.22/1130	13.1/79.3	40-50 gusting to 60	Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

❖ 10th December:- Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places over north Tamil Nadu and Rayalaseema and adjoining south Andhra Pradesh.

(ii) Wind warning:

- ❖ Southwest Bay of Bengal:- Squally wind, speed reaching 55-65 kmph gusting to 75 kmph likely to prevail till 10th December morning. It is likely to reduce becoming 30-40 kmph gusting to 50 kmph by 10th December afternoon.
- ❖ Along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts:- Squally wind, speed reaching 55-65 kmph gusting to 75 kmph likely to prevail till 10th December morning. It is likely to reduce becoming 30-40 kmph gusting to 50 kmph by 10th December afternoon.
- ❖ **Gulf of Mannar:-** Squally wind, speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over Gulf of Mannar till 10th December morning.
- ❖ Westcentral Bay of Bengal:- Squally wind, speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over adjoining areas of Westcentral Bay of Bengal off south Andhra Pradesh coast till 10th December morning and reduce thereafter gradually becoming 30-40 kmph gusting to 50 kmph by 10th December afternoon.

(iii) Sea condition

- ❖ Sea condition likely to be rough to very rough over Southwest Bay of Bengal from 10th December early morning to evening. The sea condition would be rough to very rough over adjoining areas of Westcentral Bay of Bengal till afternoon of 10th December.
- ❖ Sea condition very likely to be rough to very rough along & off north Tamil Nadu and Puducherry coasts till 10th December afternoon. It is likely to be rough to very rough along and off north Srilanka and south Tamil Nadu coasts till 10th December afternoon.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into:

- Southwest Bay of Bengal till 10th December evening.
- Along & off north Sri Lanka coast till 10th December forenoon.
- Along & off Tamilnadu, Puducherry and South Andhra Pradesh coasts and Gulf of Mannar till 10th December evening.

(v) Adverse Weather Warning for onshore and off-shore operations

Regulate on-shore and off-shore operations over Southwest Bay of Bengal; along & off Tamil Nadu-Puducherry-South Andhra Pradesh coasts and Gulf of Mannar till 10th December afternoon.

(vi) Damage expected over north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh during next 3 hours.

- Damage to thatched houses/ huts. Unattached metal sheets may fly.
- Minor damage to power and communication lines leading to partial disruption in power and communication.
- Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- Breaking of tree branches, uprooting of small trees. Dead limbs blown from trees.
- 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

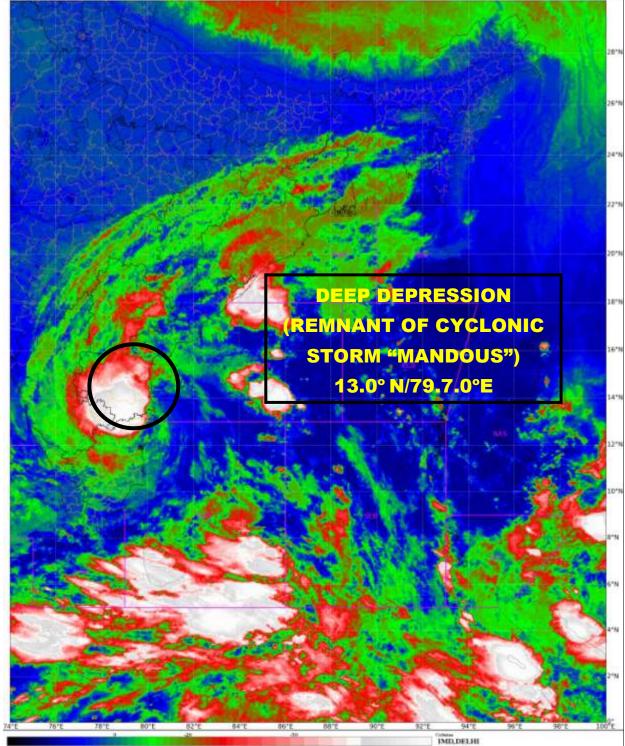
- ❖ Traffic may be disrupted due to poor visibility in association with heavy rain
 (vii) Action suggested over north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh
 - People in north coastal Tamil Nadu and Puducherry to remain in safe places till 10th December morning.
 - ❖ Total suspension of fishing operations till 10th December evening.
 - Regulate onshore and off-shore operations 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 1130 hours IST of 10th Dec, 2022.

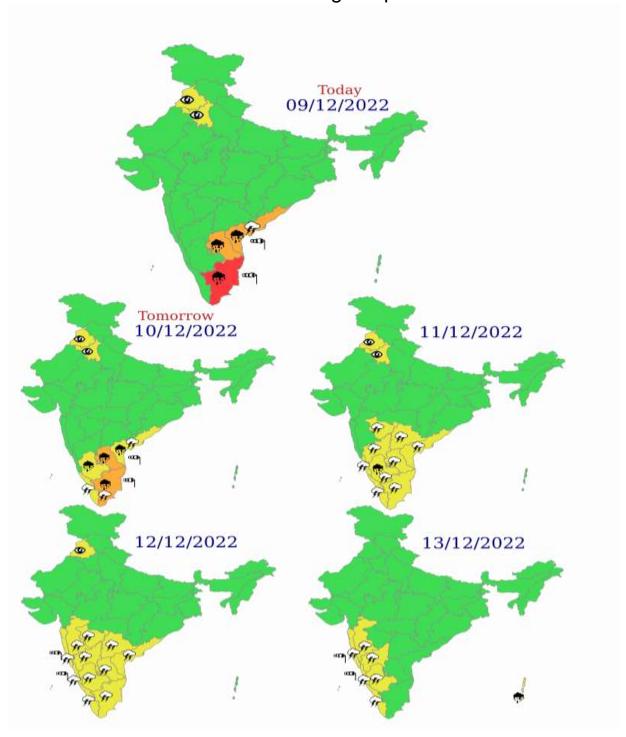
(SHASHI KANT) Scientist C, Cyclone Warning Division, New Delhi

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





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.





OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION REMNANT OF CYCLONIC STORM 'MANDOUS' OVER NORTH TAMILNADU BASED ON 0000 UTC OF 10th DECEMBER, 2022.



DATE/TIME IN UTC

IST=UTC + 0530 L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

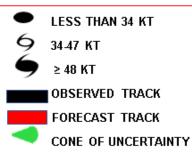
D: DEPRESSION (17-27 KT)

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 2 120 KT)





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION REMNANT OF CYCLONIC STORM 'MANDOUS' OVER NORTH TAMILNADU BASED ON 0000 UTC OF 10th DECEMBER, 2022



DATE/TIME IN UTC IST=UTC + 0530

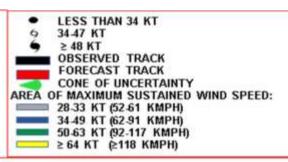
L: LOW PRESSURE AREA

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)



IMPACT	OVER	THE	SFA
HAIL MCI	OVER	1116	3634

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 Day 2: 10.12.2022/05:30AM to 11:12.2022/05:30AM Day 1: 09.12.2022/11:30AM to 19.12.2022/05:30AM NWA WCA SWA Day 3: 11,12.2022/05:30AM 1012:12.2022/05:30AM Day 4: 12.12.2022/05:30AM to 13.12.2022/05:30AM "WCA" NO WARNING SWA SAS/ Squally WX with wind speed 40-45 kmph gusting to 55 kmph Day 5: 13.12.2022/05:30AM 10.14.12.2022/05:30AM Squally WX with wind speed 45-55 kmph gusting to 65 kmph Squally wind speed 45-55 kmph gusting to 65 kmph Squally wind with wind speed 55-65 kmph gusting to 75 kmph Gale wind with wind speed 70-80 kmph gusting to 90 kmph

Fishermen are advised not to venture into the marked areas.