

இந்திய அரசு
இந்திய வானிலை ஆய்வு துறை
மண் டல வானிலை ஆய்வு மையம்
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GOVERNMENT OF INDIA
INDIA METEOROLOGICAL DEPARTMENT
Regional Meteorological Centre
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Date: 10th December 2022

Time of Issue: 04:00 IST

From: REGIONAL METEOROLOGICAL CENTRE, CHENNAI

To:

The Commissioner of Revenue Administration, Govt of Tamilnadu
The Special branch CID, O/o the DGP Campus, Mylapore
The Commissioner of Chennai /IS- INSPECTOR CONTROLROOM /
The Commissioner of Greater Chennai Corporation (tnstateeoc1@gmail.com,
tn.relief@gmail.com,
isrcrcni@gmail.com,
sbcid.city@gmail.com,
commissioner@chennaicorporation.gov.in,
tndgpcontrolroom@gmail.com)
The Commissioner of fisheries
(tnfisheries@nic.in, FisheriesTamilNaducoffisheries@gmail.com)
The Chief Secretary, Puducherry
The Commissioner-cum-Secretary(Revenue), Puducherry
The Special Secretary to Government-cum- District Collector, Puducherry
The District Collector, Karaikal
(cs.pon@nic.in, secyfin.pon@nic.in, dcrev.pon@nic.in, collr.kkl@nic.in)

Sub: Cyclonic Storm “Mandous over Southwest Bay of Bengal crossed coast

The cyclonic storm “Mandous” pronounced as “Man-Dous” over Southwest Bay of Bengal moved northwestwards and crossed north Tamilnadu, Puducherry and adjoining south Andhra Pradesh coasts near latitude 12.6°N and longitude 80.15°E, close to **Mamallapuram** during 2330 hrs IST of 09th December and 0130 IST of 10th December 2022 as a cyclonic storm with a maximum sustained wind speed of **65-75 kmph gusting to 85 kmph**. It lay centred at 0230 hrs IST of 10th December over North Coastal Tamilnadu near latitude 12.8°N and longitude 80.0°E about 30 km northwest of Mamallapuram and 30 km southwest of Chennai. It is very likely to move nearly west-northwestwards and gradually weaken into a Deep depression by early morning and further into a Depression by noon of 10th December.

Under its influence, light to moderate rainfall at most places with **heavy to very heavy** rainfall at isolated places likely over north Tamil Nadu on 10th December, 2022.

(i) Heavy rainfall warning:

Date	Warning
10.12.2022	Heavy to very heavy rain is likely to occur at isolated places over Krishnagiri, Dharmapuri, Tirupattur, Vellore, Ranipet, Tiruvannamalai, Kancheepuram and Tiruvallur districts of Tamilnadu.

	Heavy rain is likely to occur at isolated places over Nilgiris, Erode, Salem, Kallakurichi, Villupuram, Chengalpattu and Chennai districts of Tamilnadu and Puducherry.
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(ii) Wind warning:

Sea area	Warning
Southwest Bay of Bengal	Gale wind, speed reaching 60-70 gusting to 80 kmph prevails over southwest Bay of Bengal during next 2 hours. It would decrease gradually becoming 55-65 kmph gusting to 75 kmph by 10 th December early morning and 30-40 kmph gusting to 50 kmph by 10 th December afternoon
along & off Tamilnadu, Puducherry, south Andhra Pradesh and north Sri Lanka coasts	Gale wind, speed reaching 60-70 kmph gusting to 80 kmph very likely to prevail during next 2 hours. It is likely to reduce gradually thereafter becoming 55-65 kmph gusting to 75 kmph by early morning of 10 th December and 30-40 kmph gusting to 50 kmph by 10 th December afternoon.
Gulf of Mannar	Squally wind, speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over Gulf of Mannar till early hours of 10 th December and reduce thereafter becoming 40-50 kmph gusting to 60 kmph by 10 th 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 10 th December early morning and reduce thereafter gradually becoming 30-40 kmph gusting to 50 kmph by 10 th December afternoon.

(iii) Sea condition

Sea area	Sea condition
Southwest Bay of Bengal	Sea condition likely to be high over Southwest Bay of Bengal till early hours of 10 th December and would improve thereafter becoming very rough to rough from 10 th December early morning to evening.
West Central Bay of Bengal	The sea condition would be rough to very rough over adjoining areas of Westcentral Bay of Bengal till afternoon of 10 th December.
along & off South Andhra Pradesh, Tamil Nadu, Puducherry and Sri Lanka coasts	Sea condition very likely to be high along & off north Tamilnadu and Puducherry coasts during next 2 hours and rough to very rough thereafter till 10 th December afternoon. It is likely to be rough to very rough along and off north Srilanka and south Tamilnadu coasts till early morning of 10th December. It will gradually improve thereafter, becoming rough to very rough over these regions till 10th December afternoon.

(v) Fishermen warning:

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.

(vi) Adverse weather warning for onshore and offshore operations:

Regulate on-shore and off-shore operations over Southwest Bay of Bengal; along & off Tamilnadu-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 6 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.

IMD is continuously monitoring the situation and updates would be sent regularly.

Dr.S.BALACHANDRAN
Scientist-G & Head
Regional Meteorological Centre, Chennai

LEGEND:

Spatial rainfall distribution:

% Stations reporting Rainfall	Category
76-100	Widespread (WS/ most places)
51-75	Fairly Widespread (FWS/ many places)
26-50	Scattered (SCT/ few places)
1 -25	Isolated (ISOL)
No Rain	Dry

Rainfall intensity:

Light rain	0.1-7.6 mm (upto 1 cm)
Moderate rain	7.7-64.4 mm (2- 6 cm)
Heavy rain	64.5 – 115.5 mm (7 – 11 cm)
Very heavy rain	115.6- 204.4 mm (12 - 20 cm)
Extremely heavy rain	>204.4 mm (21 cm or more)

Sea condition:

Descriptive term	Wave height in metres
Slight	0.5-1.25
Moderate	1.25- 2.5
Rough	2.5-4.0
Very rough	4.0-6.0
High	6.0-9.0
Very high	9.0-14.0
Phenomenal	Over 14

