



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY NO. 19

FROM: RSMC TROPICAL CYCLONES NEW DELHI DATED 10.12.2022

FROM: RSMC -TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 19 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0030 UTC OF 10.12.2022 BASED ON 0000 UTC OF 10.12.2022

Sub: Cyclonic Storm "Mandous" pronounced as "Man-Dous" crossed north Tamil Nadu coast close to Mamallapuram (Mahabalipuram).

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 0000 UTC 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 10^{TH} DECEMBER.

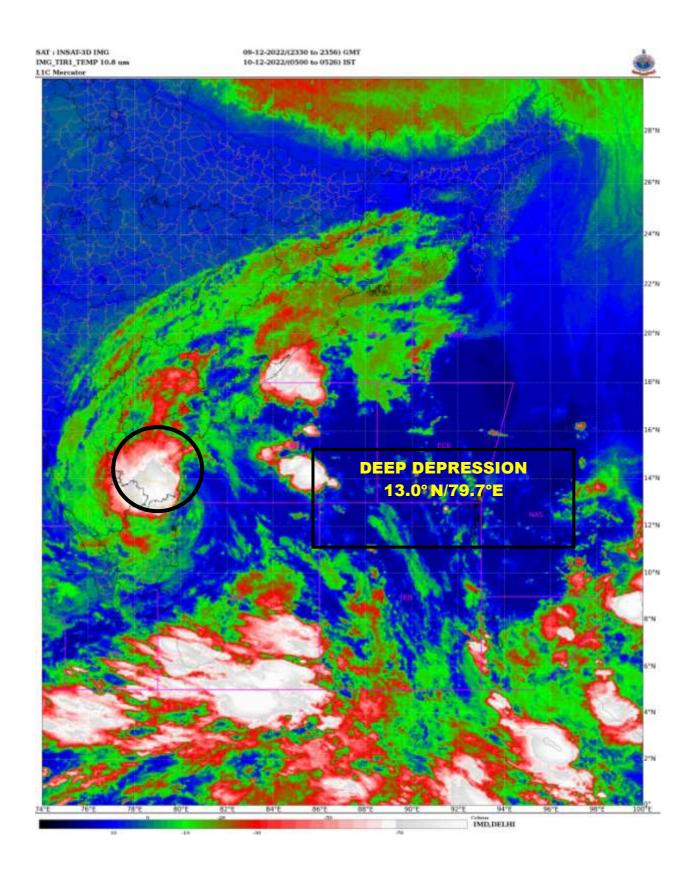
FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
10.12.22/0000	13.0/79.7	55-65 GUSTING TO 75	DEEP DEPRESSION
10.12.22/0600	13.1/79.3	40-50 GUSTING TO 60	DEPRESSION

ASSTD BROCKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER NORTHEAST TAMILNADU AND ADJOINING SOUTH ANDRA PRADESH SOUTH RAYALSEEMA AND MODERATE TO INTENSE CONVECTION OVER SOUTH WEST AND ADJOINING WEST CENTRAL BAY OFF NORTH TAMILNADU AND ADJOINING SOUTH ANDRA PRADESH COASTS.

THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 30 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA. SEA CONDITION IS HIGH OVER SOUTHWEST BAY OF BENGAL AND ROUGH TO VERY ROUGH OVER ADJOINING AREAS OF WEST CENTRAL BAY OF BENGAL AND GULF OF MANNAR. THE SYSTEM HAS SHOWED WEAKENING TREND DURING LAST 12 HOURS.

THIS IS THE LAST BULLETIN PERTAINING TO THIS SYSTEM. HOWEVER, UPDATE ON BABENGAL SYSTEM WILL BE PROVIDED AT 0600 UTC OF TODAY	VY OF
DR. M. T. BUSHAIRSCIENTIST-C, RSMC,NEW DELHI	





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

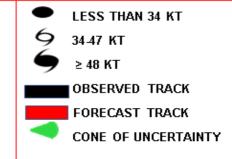
D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

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

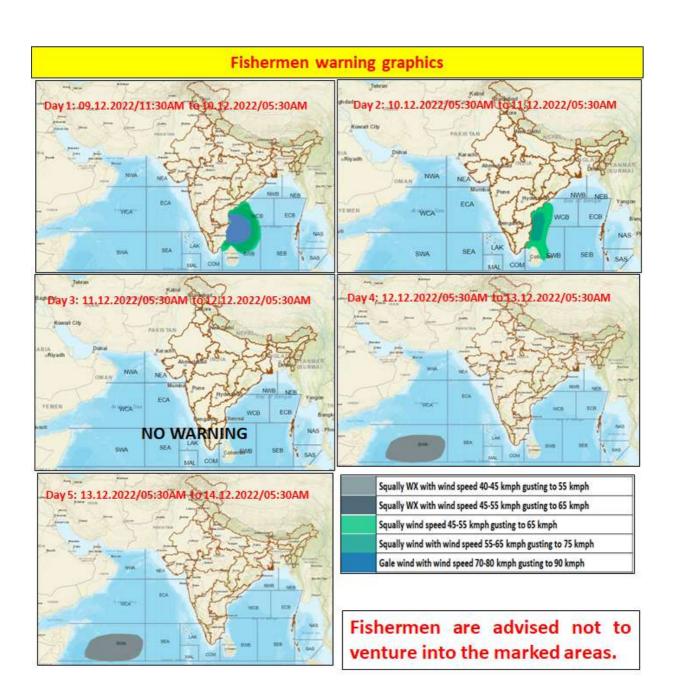


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥20 KT)

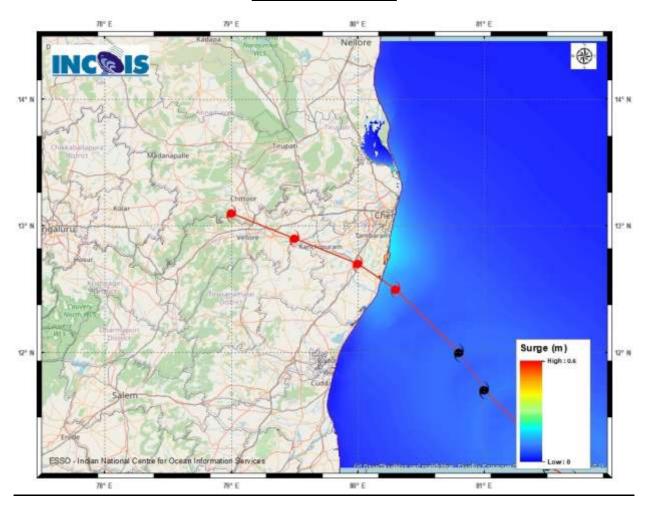
34.47 KT
≥ 48 KT
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY
AREA OF MAXIMUM SUSTAINED WIND SPEED:
28-33 KT (52-61 KMPH)
34-49 KT (62-91 KMPH)
50-63 KT (92-117 KMPH)
≥ 64 KT (≥118 KMPH)

LESS THAN 34 KT

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				



Storm Surge Guidance



STORM SURGE HEIGHT INFORMATION:

* The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITO RY	NEAREST PLACEOF HABITATION	. ' '	EXPECTED INUNDATION EXTENT (km)
Chengalpattu	Kancheepuram	Tamil Nadu	Muthukadu	0.3-0.7	Upto 0.13