

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON CYCLONIC STORM "MANDOUS"

BULLETIN NO. 01

DATE: 09-12-2022 TIME OF ISSUE: 2000 HRS IST

DATE/TIME (IST) OF	DACED ON 00 42 2022 (4020 LIDE LET)
DATE/TIME (IST) OF OBSERVATION	BASED ON 09-12-2022 (1830 HRS IST)
	THE CYCLONIC STORM "MANDOUS" PRONOUNCED AS "MAN-
LOCATION	
LATITUDE/LONGITUDE	DOUS" OVER SOUTHWEST BAY OF BENGAL MOVED
	NORTHWESTWARDS WITH A SPEED OF 14 KMPH DURING
	PAST 06 HOURS AND LAY CENTERED AT 1830 HOURS IST OF
	TODAY, THE 09 TH DECEMBER, 2022 OVER SOUTHWEST BAY OF
	BENGAL OFF NORTH TAMILNADU AND PUDUCHERRY COASTS
	NEAR LATITUDE 12.1°N AND LONGITUDE 80.7°E, ABOUT 80 KM
	SOUTHEAST OF MAMALLAPURAM AND ABOUT 110 KM SOUTH-
	SOUTHEAST OF CHENNAI.
CURRENT INTENSITY	70-80 KMPH GUSTING TO 90 KMPH.
NEAR CENTRE	
PAST MOVEMENT	MOVED NORTHWESTWARDS WITH A SPEED OF 14 KMPH
	DURING PAST 06 HOURS.
FORECAST MOVEMENT,	IT IS VERY LIKELY TO MOVE NEARLY NORTHWESTWARDS
•	
INTENSITY AND	
LANDFALL	ADJOINING SOUTH ANDHRA PRADESH COASTS BETWEEN
	PUDUCHERRY AND SRIHARIKOTA AROUND MAMALLAPURAM
	(MAHABALIPURAM) AS A CYCLONIC STORM WITH A MAXIMUM
	SUSTAINED WIND SPEED OF 65-75 KMPH GUSTING TO 85
	KMPH DURING MIDNIGHT OF TODAY, THE 09TH DECEMBER TO
	EARLY HOURS OF TOMORROW, THE 10TH DECEMBER.
	THEREAFTER IT WOULD GRADUALLY WEAKEN INTO A DEEP
	DEPRESSION BY EARLY MORNING AND INTO A DEPRESSION
	BY NOON OF 10 TH DECEMBER.
FORFOACT WIND	ALONG & OFF TAMIL MARIL BURLIOUFRRY AND COUTLY
FORECAST WIND	ALONG & OFF TAMIL NADU, PUDUCHERRY AND SOUTH ANDHRA PRADESH COASTS:- GALE WIND, SPEED REACHING
	65-75 KMPH GUSTING TO 85 KMPH VERY LIKELY TO PREVAIL
	TILL EARLY HOURS OF 10 TH DECEMBER. IT IS LIKELY TO
	REDUCE GRADUALLY THEREAFTER BECOMING 55-65 KMPH
	GUSTING TO 75 KMPH BY MORNING OF 10TH DECEMBER AND
	THEN TO 30-40 KMPH GUSTING TO 50 KMPH BY 10TH
	DECEMBER EVENING.
	09TH DECEMBER: - LIGHT TO MODERATE RAINFALL AT MOST
FORECAST RAINFALL	PLACES WITH HEAVY TO VERY HEAVY RAINFALL AT A FEW
	PLACES AND EXTREMELY HEAVY RAINFALL AT ISOLATED
	PLACES VERY LIKELY OVER NORTH COASTAL TAMIL NADU, PUDUCHERRY AND ISOLATED HEAVY TO VERY HEAVY
	RAINFALL LIKELY OVER ADJOINING SOUTH COASTAL ANDHRA
	INAINI ALL LINLLI OVLIN ADJOINING SOUTH COASTAL ANDHRA

	PRADESH AND NORTH INTERIOR TAMILNADU AND RAYALASEEMA.
	10 TH DECEMBER:- IT IS LIKELY TO REDUCE TO LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL AT ISOLATED PLACES OVER NORTH INTERIOR TAMIL NADU AND RAYALASEEMA AND ADJOINING SOUTH ANDHRA PRADESH.
FORECAST STORM SURGE	THE STORM SURGE OF ABOUT 0.5 M HEIGHT ABOVE THE ASTRONOMICAL TIDE LIKELY TO INUNDATE LOW LYING AREAS OF NORTH COASTAL TAMILNADU AND PUDUCHERRY DURING THE TIME OF LANDFALL.



OBSERVED AND FORECAST TRACK OF CYCLONIC STORM 'MANDOUS' OVER SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 09th 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 ₱ 120 KT)

LESS THAN 34 KT 34.47 KT

≥ 48 KT

OBSERVED TRACK FORECAST TRACK

CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'MANDOUS' OVER SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 09th 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 />110)	Phonomonal	Total evenoneign of fiching operations	