

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON CYCLONIC STORM "MANDOUS"

BULLETIN NO. 05

DATE: 09-12-2022

TIME OF ISSUE: 2315 HRS IST

DATE/TIME (IST) OF	BASED ON 09-12-2022 (2230 HRS IST)	
OBSERVATION		
OBSERVATION LOCATION LATITUDE/LONGITUDE	THE CYCLONIC STORM "MANDOUS" PRONOUNCED AS "MAN- DOUS" OVER SOUTHWEST BAY OF BENGAL MOVED NORTHWESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 2230 HOURS IST OF TODAY, THE 09 TH DECEMBER, 2022 OVER SOUTHWEST BAY OF BENGAL OFF NORTH TAMILNADU AND PUDUCHERRY COASTS NEAR LATITUDE 12.40°N AND LONGITUDE 80.40°E, ABOUT 30 KM SOUTHEAST OF MAMALLAPURAM AND ABOUT 70 KM SOUTH-SOUTHEAST OF CHENNAI. THE CLOUD SPIRAL BANDS ARE ENTERING INTO LAND AREAS OF COASTAL TAMILNADU AND PUDUCHERRY.	
	HOWEVER, THE SYSTEM CENTER IS STILL OVER THE SEA AND LANDFALL PROCESS HAS COMMENCED.	
CURRENT INTENSITY	65-75 KMPH GUSTING TO 85 KMPH.	
NEAR CENTRE		
PAST MOVEMENT	MOVED NORTHWESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 06 HOURS.	
FORECAST MOVEMENT, INTENSITY AND LANDFALL	, IT IS VERY LIKELY TO MOVE NEARLY NORTHWESTWARDS AND CROSS NORTH TAMILNADU, PUDUCHERRY AND 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.	
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.	

FORECAST RAINFALL	 09TH DECEMBER: - LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL AT A FE PLACES VERY LIKELY OVER NORTH COASTAL TAMIL NAD PUDUCHERRY AND ISOLATED HEAVY TO VERY HEAV RAINFALL LIKELY OVER ADJOINING SOUTH COASTAL ANDHE PRADESH AND NORTH INTERIOR TAMILNADU AN RAYALASEEMA. 10TH DECEMBER:- IT IS LIKELY TO REDUCE TO LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VER 	
	HEAVY RAINFALL AT ISOLATED PLACES WITH HEAVT TO VERT 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.	

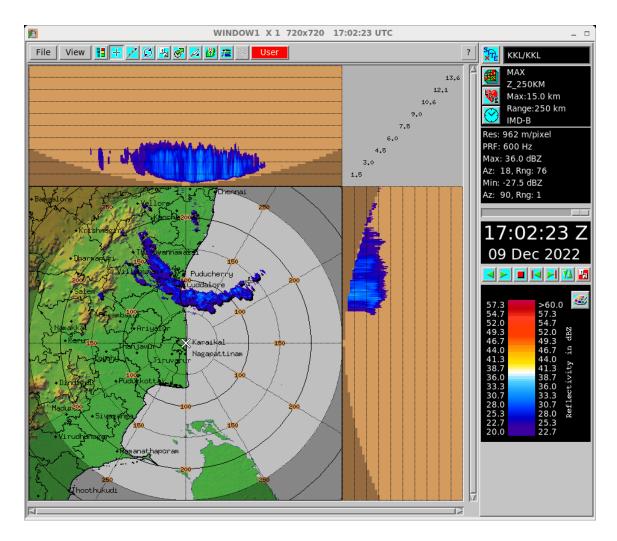
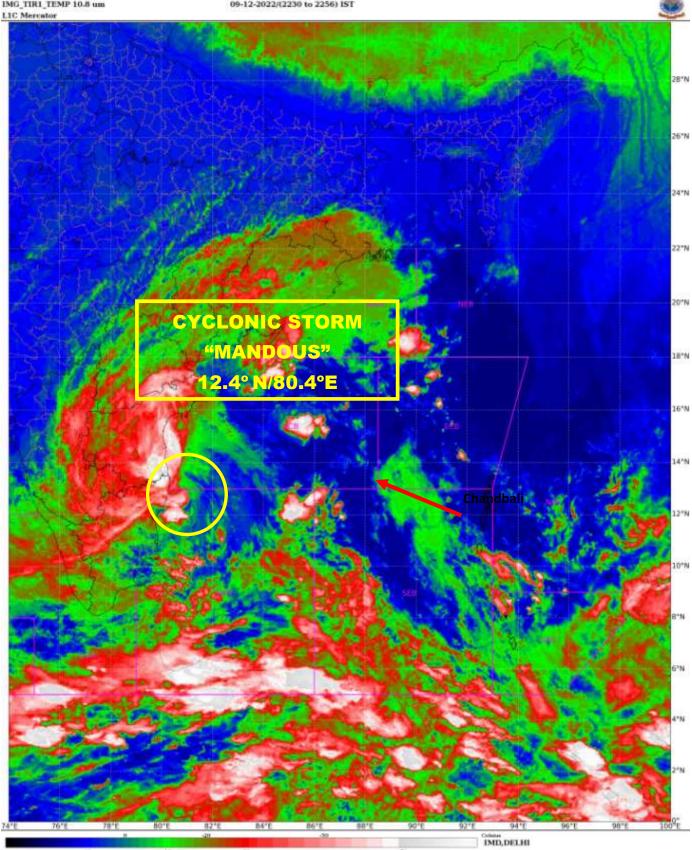
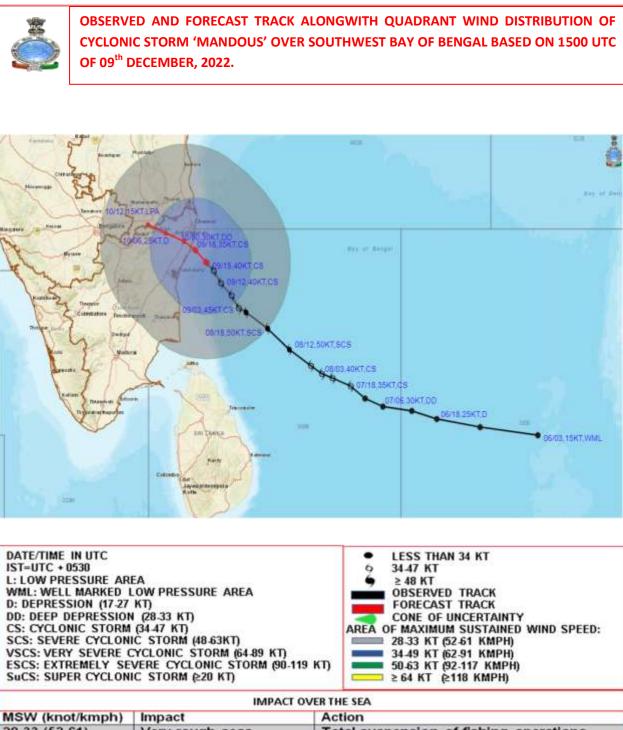


Image from Doppler Weather Radar Karaikal at 17 UTC.



SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um L1C Mercator

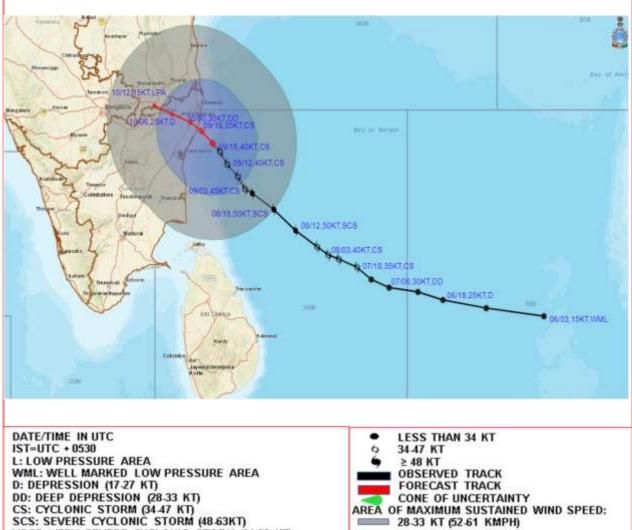
09-12-2022/(1700 to 1726) GMT 09-12-2022/(2230 to 2256) IST



MSVV (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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'MANDOUS' OVER SOUTHWEST BAY OF BENGAL BASED ON 1500 UTC OF 09th DECEMBER, 2022.



CS: CYCLONIC STORM (34-47 KT)	AREA OF MAXIMUM SUSTAINED
SCS: SEVERE CYCLONIC STORM (48-63KT)	28-33 KT (52-61 KMPH)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)	34-49 KT (62-91 KMPH)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)	50-63 KT (92-117 KMPH)
SuCS: SUPER CYCLONIC STORM (20 KT)	≥ 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		