



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI
TROPICAL WEATHER OUTLOOK**

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 06.03.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0230 UTC OF 06.03.2022 BASED ON 0000 UTC OF 06.03.2022.

DEPRESSION OVER SOUTHWEST BAY OF BENGAL

THE DEPRESSION OVER SOUTHWEST BAY OF BENGAL MOVED NEARLY SOUTHWESTWARDS WITH A SPEED OF ABOUT 07 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 0000 UTC OF TODAY THE 6TH MARCH 2022, OVER THE SAME REGION NEAR LATITUDE 11.2°N AND LONGITUDE 82.2°E, ABOUT 310 KM NORTH-NORTHEAST OF TRINCOMALEE (43418), 260 KM EAST-NORTHEAST OF NAGAPPATTINAM (43347), 270 KM EAST-SOUTHEAST OF PUDUCHERRY (43331) AND ABOUT 280 KM SOUTH-SOUTHEAST OF CHENNAI (43279).

IT IS LIKELY TO MOVE SOUTHWESTWARDS TOWARDS NORTH TAMIL NADU COAST AND WEAKEN GRADUALLY INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 06 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME (UTC)	FORECAST LEAD PERIOD	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
06.03.22/0000	00	11.2/82.2	40-50 GUSTING TO 60	DEPRESSION
06.03.22/1200	12	10.9/81.9	30-40 GUSTING TO 50	WELL MARKED LOW PRESSURE AREA

THE INTENSITY OF THE SYSTEM IS T1.5. INTENSE CONVECTIVE CLOUD MASS HAS SHEARED TO THE NE OF THE SYSTEM CENTRE. INTENSITY OF THIS CONVECTION HAS ALSO DECREASED MARGINALLY IN LAST 3 HRS. ASSOCIATED BROKEN LOW/MED CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER AREA BET LAT 10.0° N & 16.0° N AND LONG 81.5°E TO 90.0°E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.. CONVECTION WITHIN THE SYSTEM HAS DECREASED DURING LAST 06 HOURS

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH OVER SOUTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 1004 HPA.

REMARKS:

LOW LEVEL VORTICITY IS AROUND $100 \times 10^{-6} \text{ S}^{-1}$ SOUTH OF THE SYSTEM CENTRE. VERTICALLY, IT IS EXTENDING UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE HAS DECREASED AND IS AROUND $5 \times 10^{-5} \text{ S}^{-1}$ TO THE NORTHEAST OF THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS ABOUT $10 \times 10^{-5} \text{ S}^{-1}$ TO THE NORTHEAST OF

THE SYSTEM CENTRE. WIND SHEAR IS MODERATE (15 KNOTS) AROUND THE SYSTEM CENTRE AND INCREASES WESTWARDS TOWARDS TAMILNADU COAST.

UNDER THE INFLUENCE OF THE RIDGE IN MID-TROPOSPHERIC LEVEL OVER SOUTH PENINSULAR INDIA AND ADJOINING ARABIAN SEA, TO THE NORTHWEST OF THE SYSTEM, THE SYSTEM WOULD MOVE SOUTHWESTWARDS AND DUE TO DRY AIR INCURSION FROM SOUTHWEST SECTOR, INCREASING SHEAR AND DECREASED CORIOLIS PARAMETER, THE SYSTEM WOULD WEAKEN GRADUALLY.

MOST OF THE NUMERICAL MODELS ARE UNANIMOUS THAT THE SYSTEM WOULD MOVE SOUTHWESTWARDS DURING NEXT 12 HOURS.

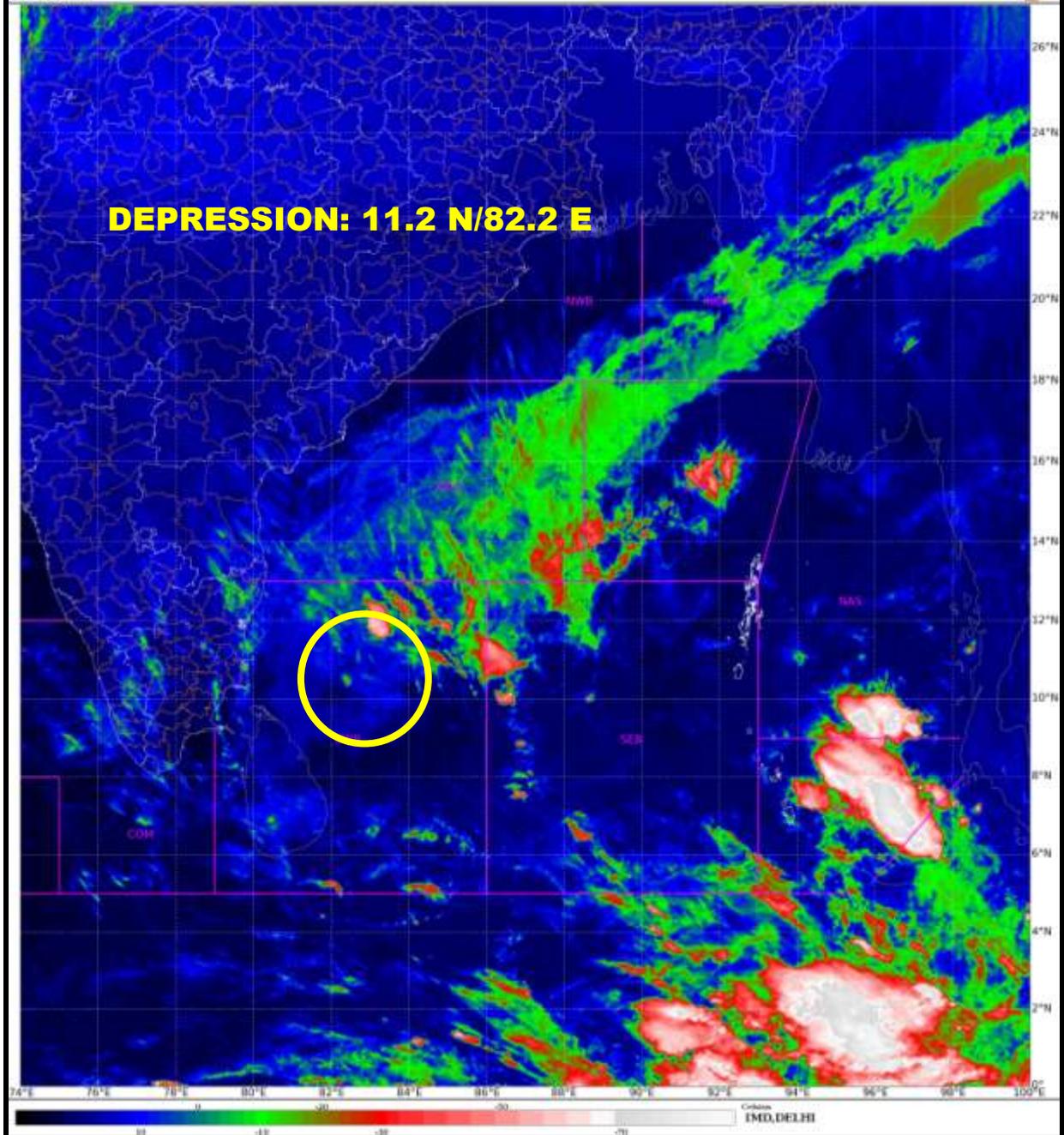
IN VIEW OF ALL THE ABOVE, IT IS INFERRED THAT THE DEPRESSION OVER SOUTHWEST BOB IS LIKELY TO MOVE SOUTHWESTWARD TOWARDS NORTH TAMILNADU COAST AND WEAKEN GRADUALLY INTO A WELL MARKED LOW PRESURE AREA DURING NEXT 06 HOURS.

THE NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 06TH MARCH, 2022.

(ANANDA KUMAR DAS)
SCIENTIST-E
RSMC, NEW DELHI

SAT : INSAT-3DR IMG
IMG_TIR1_TEMP 10.8 um
LIC Mercator

06-03-2022(0115 to 0142) GMT
06-03-2022(0645 to 0712) IST





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0000 UTC OF 6th MARCH, 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 (\geq 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	N:NORTH, NNE:NORTH-NORTHEAST, NE:NORTHEAST, ENE:EAST-NORTHEAST, E:EAST, SE:SOUTHEAST, SSE:SOUTH-SOUTHEAST, S:SOUTH, SSW:SOUTH-SOUTHWEST, SW:SOUTHWEST, WSW:WEST-SOUTHWEST, W:WEST, WNW:WEST-NORTHWEST, NW:NORTHWEST, NNW:NORTH-NORTHWEST
	06.03.22/0000	
TRINCOMALEE	310,NNE	
NAGAPATTINAM	260,ENE	
PUDUCHERRY	270,ESE	
CHENNAI	280, SSE	

Forecast distance (km) and direction of the centre of system from nearest 5 coastal stations					
Forecast Date/Time	Station 1	Station 2	Station 3	Station 4	Station 5
06.03.22/0000	Tharangambadi (260,E)	Karaikal (260,E)	Nagapattinam (260,E)	Velankanni (260,ENE)	Pudupattinam (270,ESE)
06.03.22/1200	Karaikal (220,E)	Nagapattinam (220,E)	Velankanni (230,E)	Pudupattinam (230,SE)	Parangipettai (230,ESE)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0000 UTC OF 6th MARCH, 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 (\geq 120 KT)

- LESS THAN 34 KT
 - ◐ 34-47 KT
 - \geq 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)
 - \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations

Fishermen Warning for North Indian Ocean

