



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 22.11.2022**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0700 UTC OF 22.11.2022 BASED ON 0300 UTC OF 22.11.2022.**

**SUB: WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL & ADJOINING SOUTHWEST BAY OF BENGAL OFF SOUTH ANDHRA PRADESH-NORTH TAMIL NADU COASTS**

THE DEPRESSION OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL MOVED WEST-NORTHWESTWARDS AND WEAKENED INTO A WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL OFF SOUTH ANDHRA PRADESH-NORTH TAMIL NADU COASTS AT 0300 UTC OF TODAY, THE 22<sup>ND</sup> NOVEMBER, 2022.

IT IS LIKELY TO MOVE SLOWLY WEST-NORTHWESTWARDS AND WEAKEN FURTHER DURING NEXT 24 HOURS.

AS PER INSAT 3D IMAGERY, THE INTENSITY OF THE SYSTEM IS CHARACTERISED AS T1.0. ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER WESTCENTRAL AND ADJOINING SOUTHWEST BAY OF BENGAL BETWEEN LAT 13.0°N TO 17.0°N AND LONG 80.0°E TO 84.0°E & COASTAL ANDHRA PRADESH AND ADJOINING COASTAL TAMILNADU. MINIMUM CLOUD TOP TEMPERATURE IS -85°C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 15 KNOTS GUSTING TO 25 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 1006 HPA. SEA CONDITION IS LIKELY TO BE ROUGH OVER WESTCENTRAL & ADJOINING SOUTHWEST BAY OF BENGAL, ALONG & OFF SOUTH ANDHRA PRADESH – TAMIL NADU-PUDUCHERRY COASTS, GULF OF MANNAR AND NORTH SRI LANKA COASTS.

AT 0300 UTC, THE COASTAL STATIONS OF SOUTH ANDHRA PRADESH & NORTH TAMIL COASTS REPORTED PRESSURE DEPARTURE OF ABOUT -0.5 HPA DURING PAST 24 HOURS AND DEPARTURE FROM NORMAL OF ABOUT -2.0 HPA TO -3.0 HPA, , INDICATING FILLING (WEAKENING) OF THE SYSTEM.

**REMARKS:**

LOW LEVEL RELATIVE VORTICITY IS ABOUT  $50 \times 10^{-6} \text{S}^{-1}$  AND LIES AROUND THE SYSTEM CENTER. VERTICALLY IT IS EXTENDING UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS  $05 \times 10^{-5} \text{S}^{-1}$  AROUND SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS  $10 \times 10^{-5} \text{S}^{-1}$  TO THE NORTH OF SYSTEM CENTRE. WIND SHEAR IS MODERATE (15-20 KNOTS) AROUND THE SYSTEM CENTER. TOTAL PRECIPITABLE WATER IMAGERY AT 0300 UTC OF 22ND IS INDICATING DECREASE IN INTENSITY OF WARM MOIST AIR ADVECTION INTO THE CORE OF SYSTEM. FURTHER, IT IS ALSO INDICATING DRY & COLD AIR ADVECTION FROM SOUTHERN PENINSULAR REGION INTO THE SOUTHWEST & SOUTHEAST SECTOR OF SYSTEM. THE

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C  
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100%  
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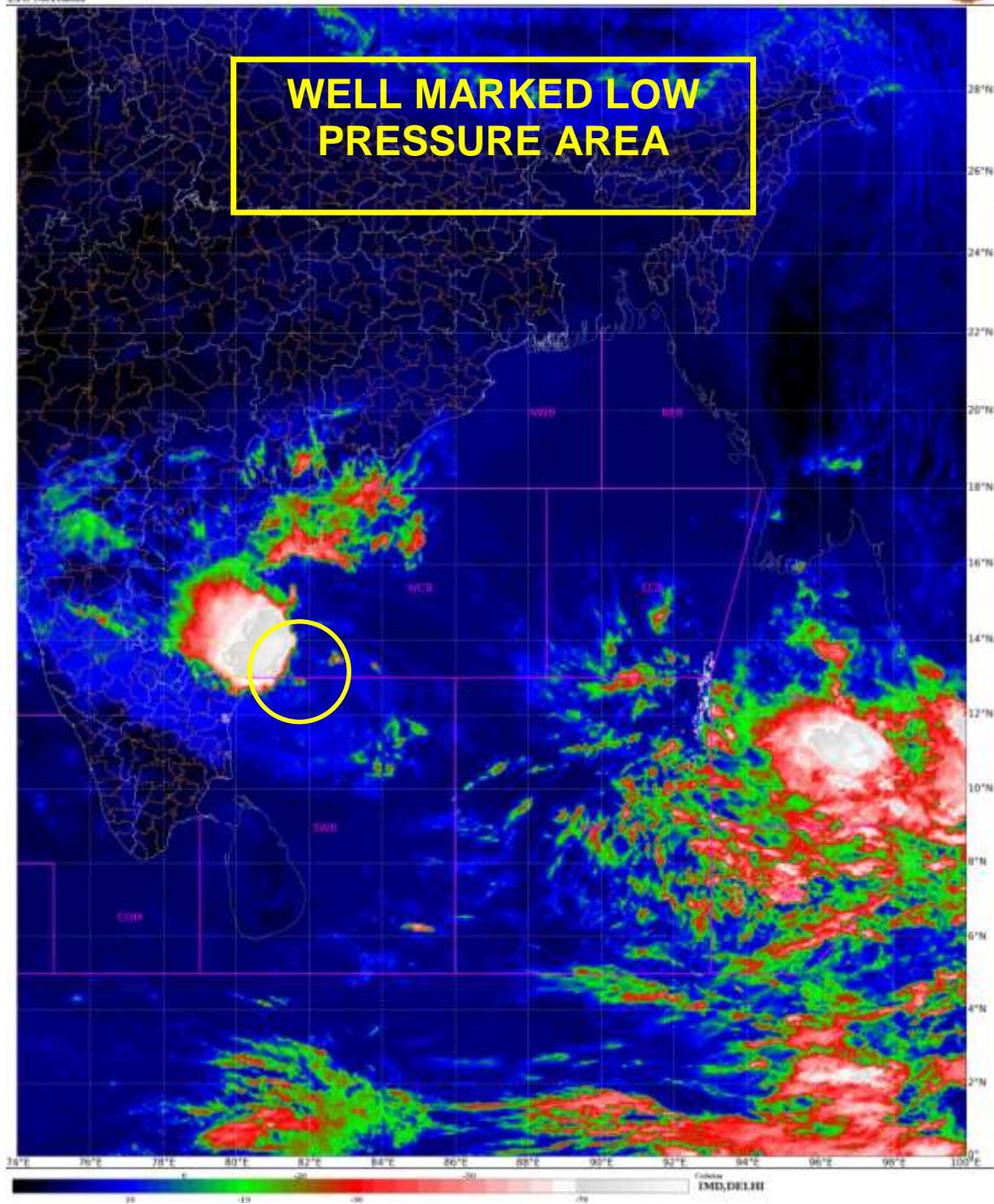
COLD DRY INCURSION IS EXPECTED TO CUT OFF THE WARM MOIST AIR SUPPLY INTO THE CORE LEADING TO FURTHER WEAKENING OF THE SYSTEM.

FURTHER WEAKENING OF SYSTEM DURING NEXT 24 HOURS WOULD CHANGE THE STEERING LEVEL LIMITED TO LOWER TROPOSPHERIC LEVEL. THUS, THE SYSTEM WOULD THEREAFTER MOVE SOUTHWESTWARDS UNDER THE INFLUENCE OF LOWER TROPOSPHERIC LEVEL MEAN NORTHEASTERLY WINDS.

MOST OF THE MODELS ARE INDICATING THAT THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS INITIALLY, WEAKEN GRADUALLY BY 23<sup>RD</sup> MORNING (0000 UTC) AND THEREAFTER MOVE SOUTHWESTWARDS.

IN VIEW OF ALL THE ABOVE, IT IS INFERRED THAT THE WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL & ADJOINING SOUTHWEST BAY OF BENGAL IS LIKELY TO MOVE SLOWLY WEST-NORTHWESTWARDS AND WEAKEN FURTHER DURING NEXT 24 HOURS. THEREAFTER, IT IS LIKELY TO CONTINUE IT'S WEAKENING TREND AND MOVE SOUTHWESTWARDS

(M. SHARMA)  
RSMC NEW DELHI





## OBSERVED TRACK OF DEPRESSION OVER BAY OF BENGAL DURING 20-22 NOVEMBER, 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 ( $\geq 20$  KT)

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



## Fishermen warning graphics



**Squally WX with wind speed 40-45 kmph gusting to 55 kmph**

**Fishermen are advised not to venture into the marked areas.**

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