



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

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 13.08.2022**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1430 UTC OF 13.08.2022 BASED ON 1200 UTC OF 13.08.2022.**

**(A) DEPRESSION OVER NORTHWEST ARABIAN SEA WEAKENED INTO A WELL MARKED LOW PRESSURE AREA**

THE DEPRESSION OVER NORTHWEST ARABIAN SEA WEAKENED INTO A WELL MARKED LOW PRESSURE AREA AND LAY CENTERED AT 1200 UTC OF TODAY, THE 13TH AUGUST, 2022, OVER THE NORTHEAST & ADJOINING NORTHWEST ARABIAN SEA.

IT IS VERY LIKELY TO MOVE FURTHER NORTHEASTWARDS AND WEAKEN GRADUALLY INTO A LOW PRESSURE AREA DURING NEXT 24 HOURS.

AS PER INSAT 3D IMAGERY AT 1200 UTC, INTENSITY OF THE SYSTEM IS CHARACTERISED AS T 1.0. THE CLOUD MASS HAS FURTHER SHEARED TO THE WEST OF SYSTEM CENTRE. BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTHWEST AND ADJOINING WESTCENTRAL ARABIAN SEA AND OMAN. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 72<sup>0</sup>C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 20 KNOTS GUSTING TO 30 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH OVER CENTRAL & ADJOINING NORTH ARABIAN SEA AND ALONG & OFF GUJARAT (INDIA) & OMAN COASTS. THE ESTIMATED CENTRAL PRESSURE IS 992 HPA.

**(B) WELL MARKED LOW PRESSURE AREA OVER NORTHWEST BAY OF BENGAL**

THE LOW PRESSURE AREA OVER NORTH BAY OF BENGAL LAY AS A WELL MARKED LOW PRESSURE AREA OVER NORTHWEST BAY OF BENGAL OFF NORTH ODISHA AND WEST BENGAL COASTS AT 1200 UTC OF TODAY, THE 13<sup>TH</sup> AUGUST. IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION DURING NEXT 24 HOURS.

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH & CENTRAL BAY OF BENGAL, EAST ODISHA AND COSTAL WEST BENGAL. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93<sup>0</sup>C.

SEA CONDITION IS LIKELY TO BE ROUGH TO VERY ROUGH OVER NORTH AND ADJOINING CENTRAL BAY OF BENGAL AND ALONG & OFF BANGLADESH, WEST BENGAL, ODISHA AND ADJOINING NORTH ANDHRA PRADESH COASTS ON 13<sup>TH</sup> AND 14<sup>TH</sup> AUGUST.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
LOW	MOD	NIL	NIL	NIL

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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**REMARKS:  
ARABIAN SEA:**

SEA SURFACE TEMPERATURE IS AROUND 28-29°C OVER NORTH ARABIAN SEA. LOW LEVEL VORTICITY IS THE SAME DURING PAST 6 HOURS IS AROUND  $100 \times 10^{-6} \text{ S}^{-1}$  TO THE SOUTH OF SYSTEM CENTRE. LOW LEVEL CONVERGENCE IS AROUND  $20 \times 10^{-5} \text{ S}^{-1}$  TO THE WEST-SOUTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND  $10 \times 10^{-5} \text{ S}^{-1}$  TO THE SOUTHWEST AS WELL AS NORTHWEST OF SYSTEM CENTRE. WIND SHEAR IS HIGH (25-30 KNOTS) OVER THE SYSTEM AREA.

IN VIEW OF CURRENT ENVIRONMENTAL CONDITIONS, THE DEPRESSION OVER NORTHWEST ARABIAN SEA RECURVED TOWARDS NORTHEASTWARDS AND WEKENED INTO A WELL MARKED LOW PRESSURE AREA. IT IS VERY LIKELY TO WEKEN FURTHER TO BECOME A LOW PRESSURE AREA DURING NEXT 24 HOURS.

**BAY OF BENGAL:**

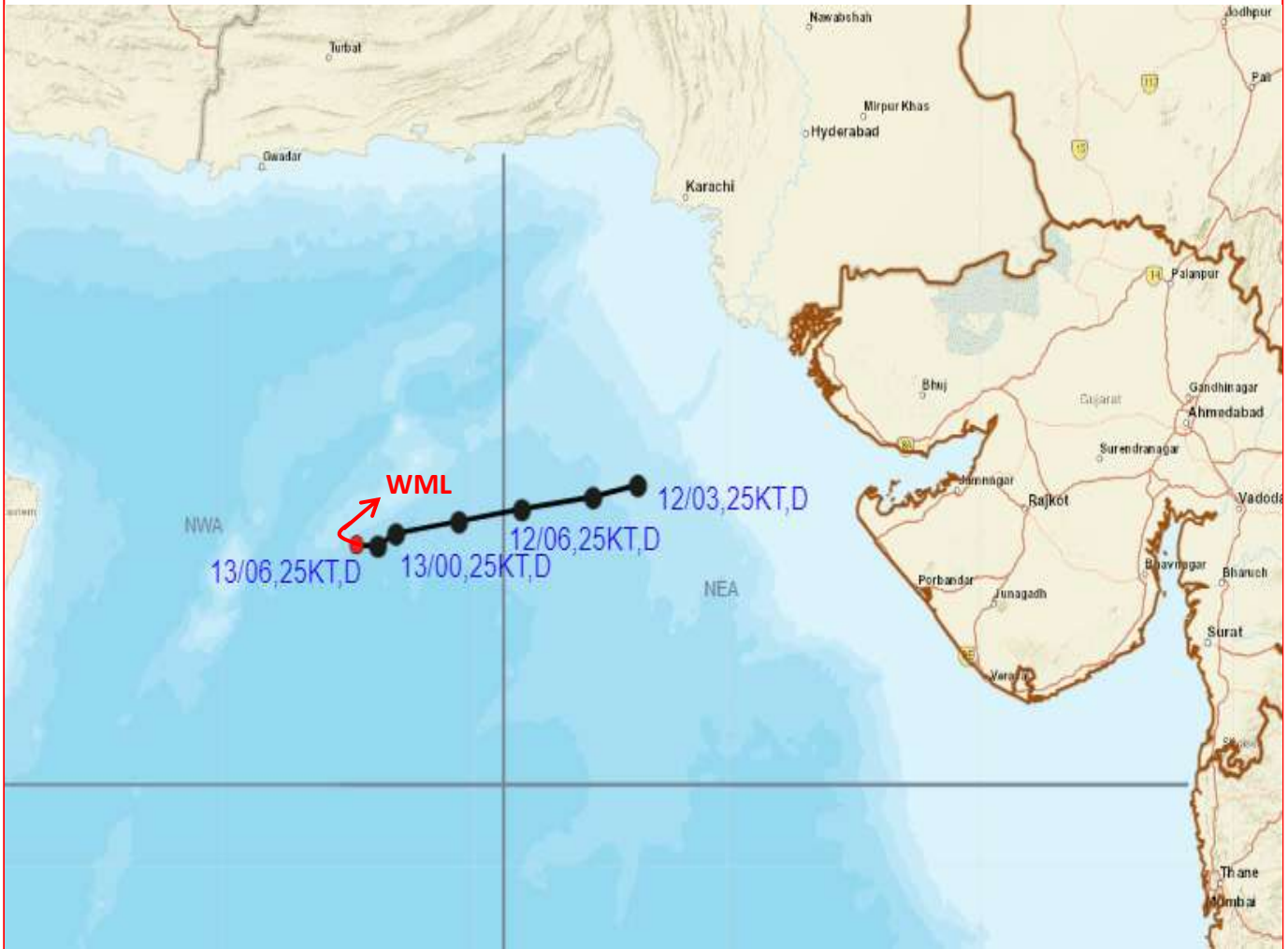
SEA SURFACE TEMPERATURE IS AROUND 28-29°C OVER NORTH BAY OF BENGAL. LOW LEVEL VORTICITY IS AROUND  $120 \times 10^{-6} \text{ S}^{-1}$  OVER NORTHWEST BOB. LOW LEVEL CONVERGENCE IS AROUND  $20 \times 10^{-5} \text{ S}^{-1}$  OVER NORTHWEST BOB AND ANOTHER ZONE OF  $20 \times 10^{-5} \text{ S}^{-1}$  OVER EASTCENTRAL BOB. POSITIVE UPPER LEVEL DIVERGENCE AROUND  $20 \times 10^{-5} \text{ S}^{-1}$  OVER CENTRAL BOB. WIND SHEAR IS LOW (10-20 KNOTS) OVER HEAD BOB AND HIGH (20-30 KNOTS) OVER ADJOINING CENTRAL BOB.

THE FAVORABLE MONSOON ENVIRONMENT IS SUPPORTING THE INTENSIFICATION OF THE SYSTEM AND MOST OF THE NWP MODELS ARE INDICATING LIKELY FORMATION OF A DEPRESSION OVER NORTHWEST BAY OF BENGAL AROUND 14<sup>TH</sup> AUGUST ALONG WITH A WEST-NORTHWESTWARDS MOVEMENT OF THE SYSTEM.

(A K DAS)  
SCIENTIST E,  
RSMC, NEW DELHI



**OBSERVED AND FORECAST TRACK OF WELL MARKED LOW PRESSURE AREA OVER NORTHEAST AND ADJOINING NORTHWEST ARABIAN SEA BASED ON 1200 UTC OF 13<sup>th</sup> AUGUST, 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





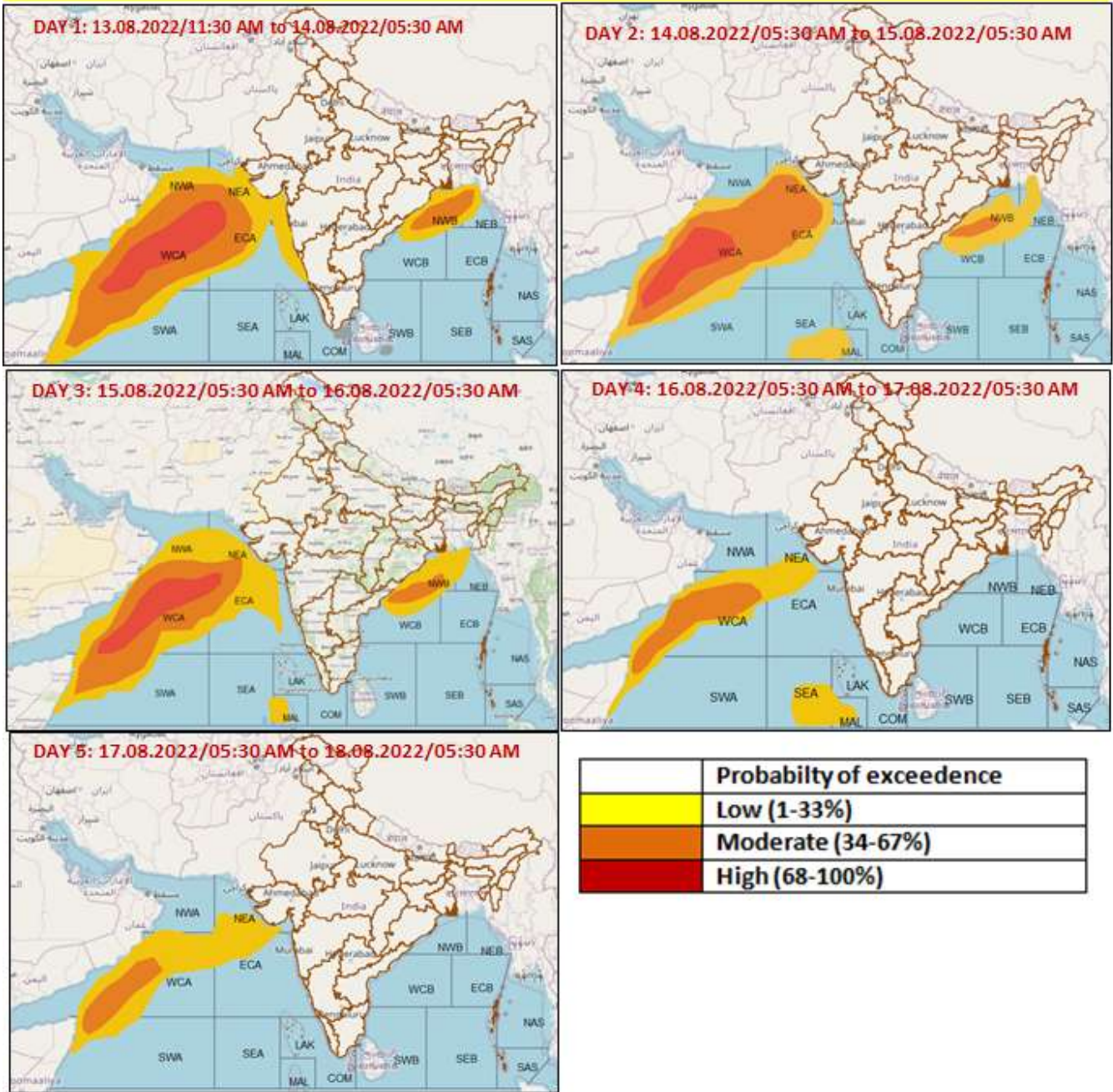
## Fishermen Warning Graphics



	Squally WX with wind speed 40-50 gusting to 60 kmph
	Squally WX with wind speed 45-55 gusting to 65 kmph
	Squally wind speed 45-55kmph gusting to 65 kmph
	Squally wind speed 50-60kmph gusting to 70 kmph

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**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):** NIL: 0%, LOW: 1-33%, MODERATE: 34-66% AND HIGH: 67-100%  
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## Probability of exceedance of maximum sustained winds $\geq 45$ kmph



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