



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 21.08.2022

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 21.08.2022 BASED ON 0300 UTC OF 21.08.2022.

(A) DEEP DEPRESSION WEAKENED INTO A DEPRESSION OVER NORTHWEST CHHATTISGARH AND ADJOINING NORTHEAST MADHYA PRADESH

YESTERDAY'S DEEP DEPRESSION OVER SOUTH JHARKHAND AND ADJOINING NORTH ODISHA MOVED WEST-NORTHWESTWARDS, WEAKENED INTO A DEPRESSION OVER NORTHWEST CHHATTISGARH AND ADJOINING NORTHEAST MADHYA PRADESH & SOUTHEAST UTTAR PRADESH IN THE MORNING (0000 UTC) OF TODAY, THE 21ST AUGUST, 2022. CONTINUING TO MOVE FURTHER WEST-NORTHWESTWARDS IT LAY CENTERED AT 0300 UTC OF TODAY, THE 21ST AUGUST, 2022 OVER NORTHWEST CHHATTISGARH AND ADJOINING NORTHEAST MADHYA PRADESH NEAR LATITUDE 23.8°N AND LONGITUDE 81.7°E, ABOUT 80 KM EAST-NORTHEAST OF UMARIA (42679), 120 KM SOUTHEAST OF SATNA (42571) AND 220 KM EAST OF DAMOH (42674).

IT WOULD CONTINUE TO MOVE WEST-NORTHWESTWARDS ACROSS NORTH MADHYA PRADESH AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 24 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
21.08.22/0300	23.8/81.7	40-50 GUSTING TO 60	DEPRESSION
21.08.22/0600	23.9/81.2	40-50 GUSTING TO 60	DEPRESSION
21.08.22/1200	24.0/80.2	35-45 GUSTING TO 55	DEPRESSION
21.08.22/1800	24.1/79.3	30-40 GUSTING TO 50	DEPRESSION
22.08.22/0000	24.2/78.4	25-35 GUSTING TO 45	WELL MARKED LOW

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AROUND SYSTEM CENTRE. UMARIA (42679) REPORTED LOWEST MEAN SEA LEVEL PRESSURE OF 994.3 HPA.

AS PER INSAT 3D IMAGERY AT 0300 UTC. ASSOCIATED SCATTERED TO BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER MADHYA PRADESH. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 80°C AND MODERATE TO INTENSE CONVECTION OVER NORTH CHHATTISGARH AND SOUTH UTTAR PRADESH.

REMARKS:

MADDEN JULIAN OSCILLATION (MJO) INDEX IS CURRENTLY IN PHASE 2 WITH AMPLITUDE CLOSE TO 1. IT IS LIKELY TO CONTINUE IN SAME PHASE DURING NEXT 3-4 DAYS. LOW LEVEL RELATIVE VORTICITY IS AROUND $150 \times 10^{-6} \text{ S}^{-1}$ AROUND SYSTEM CENTRE. LOW LEVEL CONVERGENCE IS ABOUT $15 \times 10^{-5} \text{ S}^{-1}$ TO THE SOUTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS ABOUT $10 \times 10^{-5} \text{ S}^{-1}$ TO THE EAST OF THE SYSTEM CENTRE.

VERTICAL WIND SHEAR MODERATE (15-20 KNOTS) NEAR THE SYSTEM CENTER AND ALONG THE FORECAST TRACK.

MOST OF THE NUMERICAL MODELS INDICATE THAT THE SYSTEM WOULD MAINTAIN IT'S INTENSITY AND MOVE WEST-NORTHWESTWARDS DURING NEXT 24 HOURS.

IN VIEW OF ALL THE ABOVE, CONTINUE TO MOVE WEST-NORTHWESTWARDS ACROSS NORTH MADHYA PRADESH AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 24 HOURS.

(B) BAY OF BENGAL:

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER WESTCENTRAL BAY OF BENGAL OFF SOUTH ANDHARA PRADESH COAST, SOUTHWEST BAY OF BENGAL OFF NORTH TAMILNADU COAST, NORTHEAST & EASTCENTRAL BAY OF BENGAL, NORTH ANDAMAN SEA AND TENASSERIM COAST. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER SOUTHEAST BAY OF BENGAL, SOUTH ANDAMAN SEA, GULF OF MARTABAN & ARAKAN COAST AND ISOLATED WEAK TO MODERATE CONVECTION OVER REST BAY OF BENGAL.

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

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

(C) ARABIAN SEA:

LOW PRESSURE AREA OVER SOUTH PAKISTAN PERSISTS. SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER SOUTH PAKISTAN. MINIMUM CLOUD TOP TEMPERATURE IS -80°C.

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER EASTCENTRAL ARABIAN SEA ADJOINING SOUTH KARNATAKA COAST, SOUTH ARABIAN SEA, LAKSHADWEEP ISLAND AREA AND ISOLATED WEAK TO MODERATE CONVECTION LAY OVER REST ARABIAN SEA.

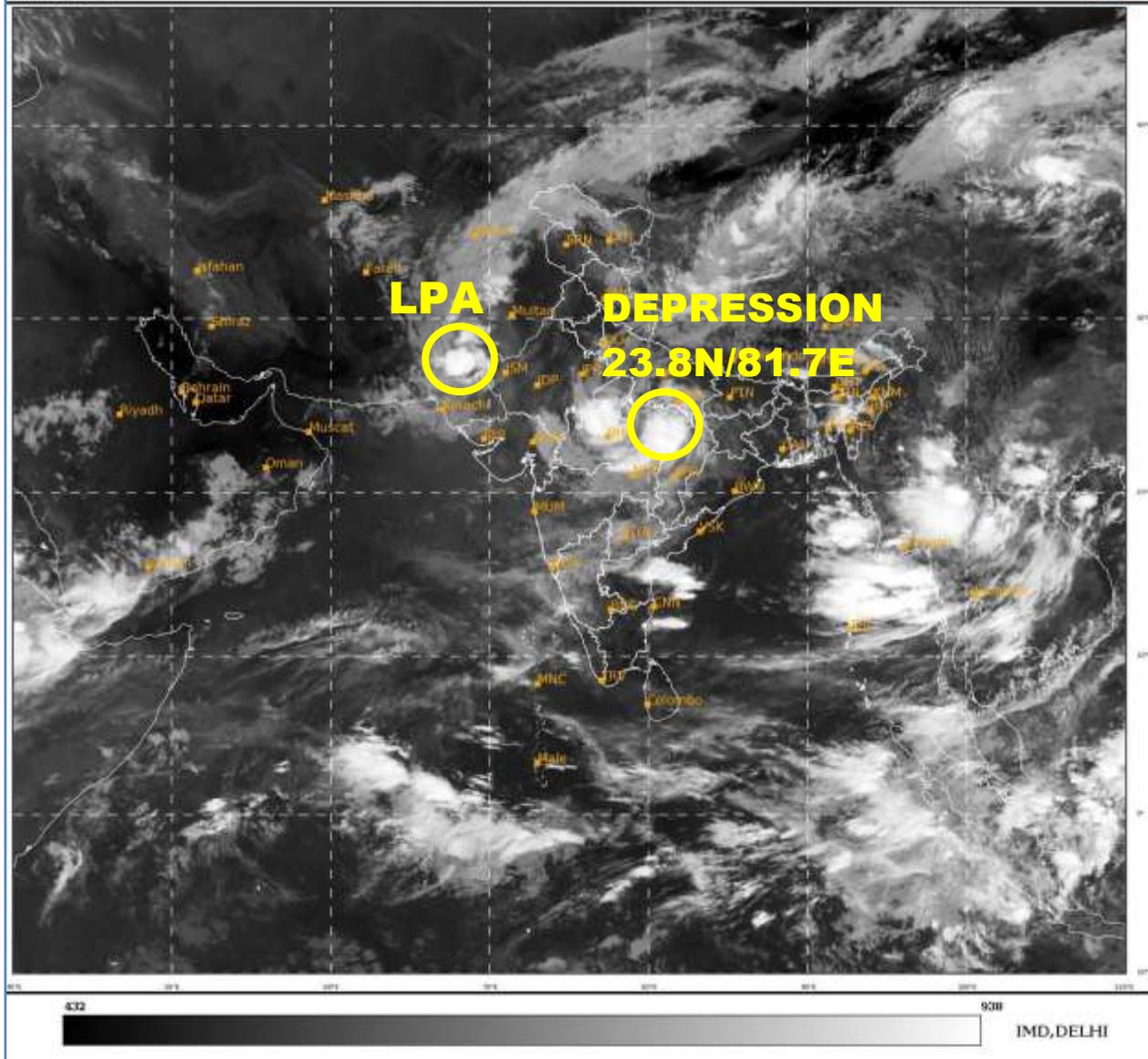
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**(M. SHARMA)
SCIENTIST-D
RSMC NEW DELHI**

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

21-08-2022/(0300 to 0326) GMT
21-08-2022/(0830 to 0856) IST



LPA: LOW PRESSURE AREA

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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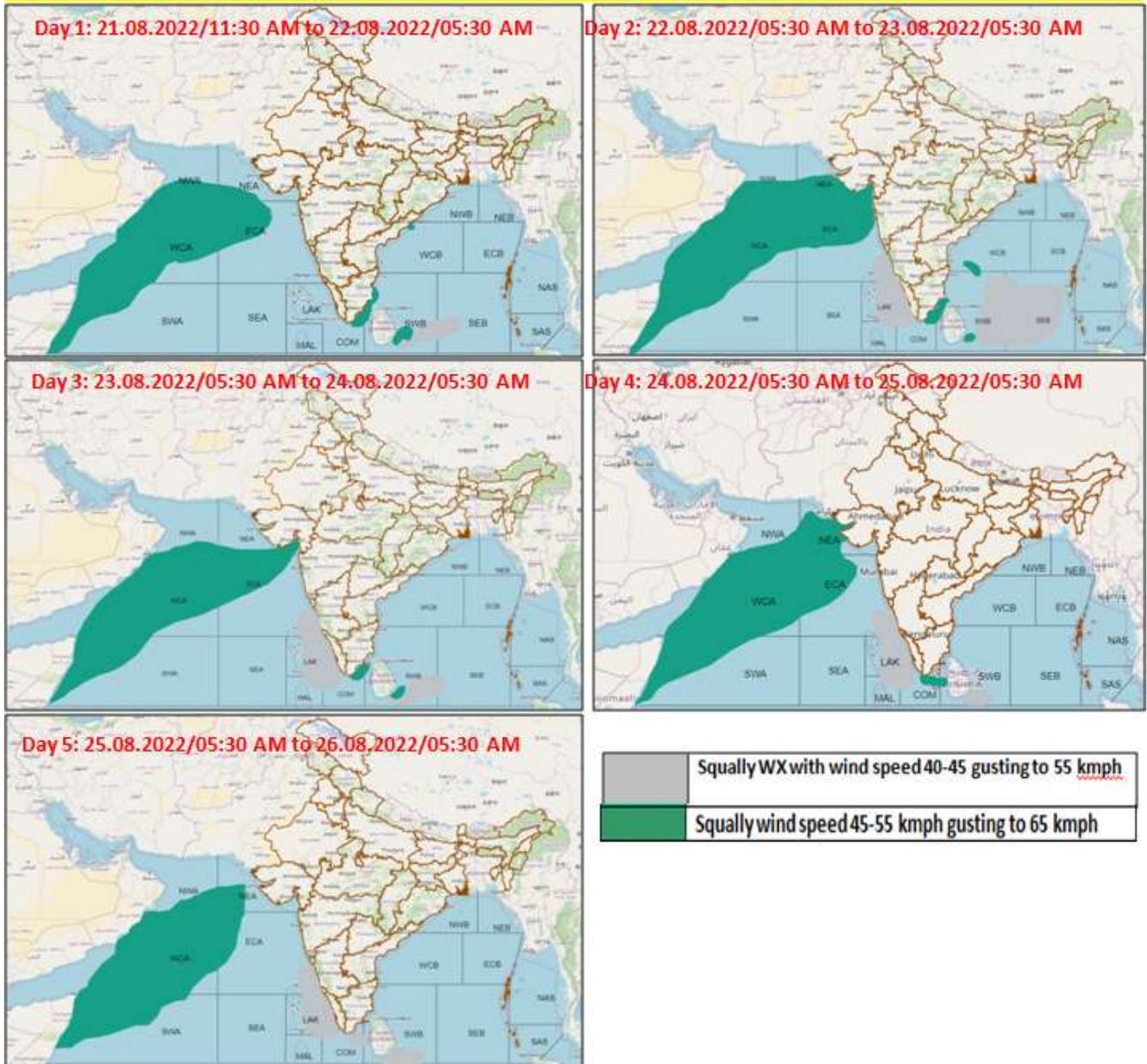
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTHWEST CHHATISGARH AND ADJOINING NORTHEAST MADHYA PRADESH BASED ON 0300 UTC OF 21st AUGUST, 2022



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)

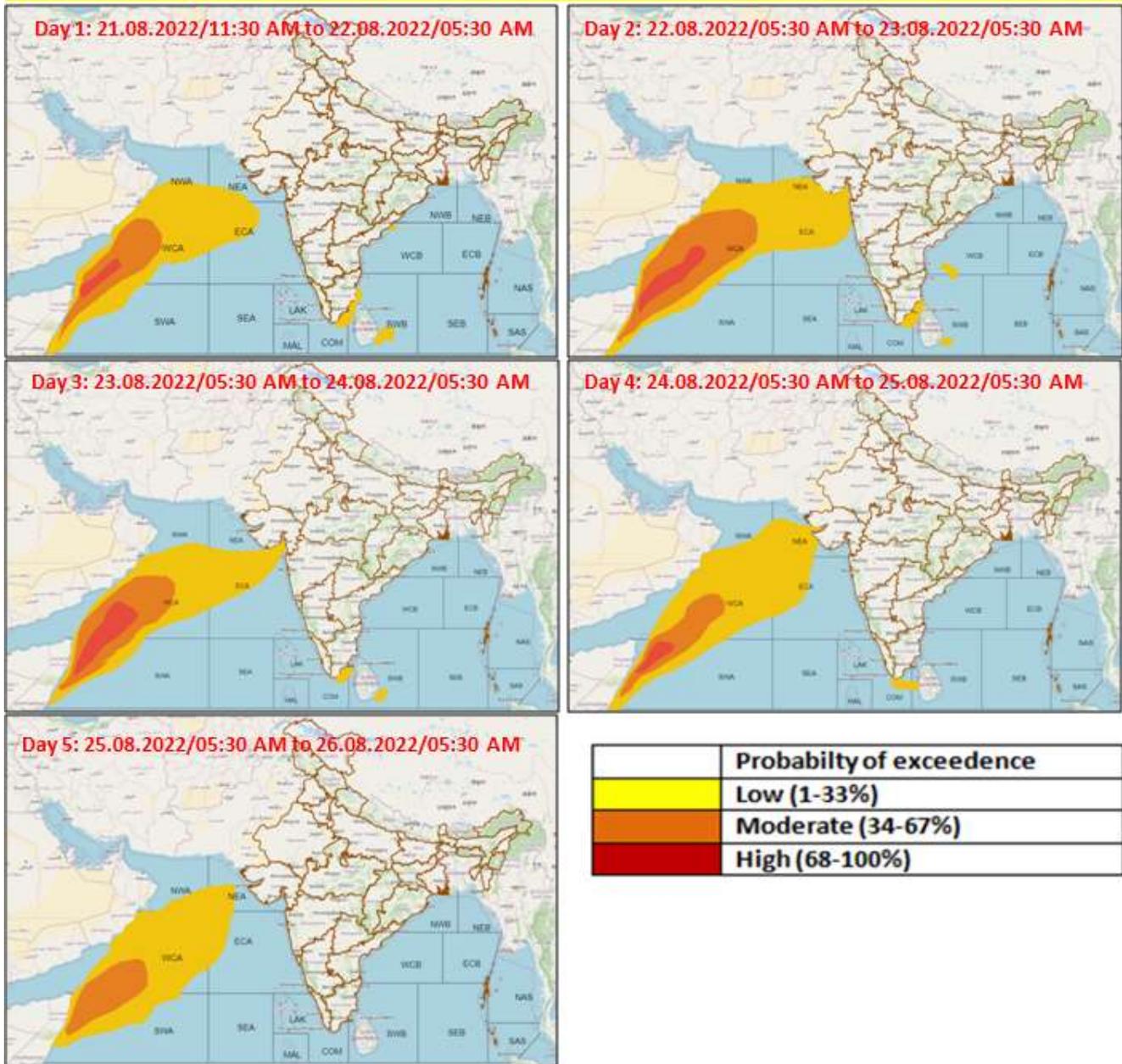
- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

Fishermen warning graphics



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Probability of exceedance of maximum sustained winds ≥ 45 kmph



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