



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 15.08.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 15.08.2022 BASED ON 0300 UTC OF 15.08.2022.

INDIA IS CELEBRATING IT'S 76TH INDEPENDENCE DAY. INDIA METEOROLOGICAL DEPARTMENT WISHES A VERY HAPPY INDEPENDENCE DAY TO ALL.

BAY OF BENGAL:

SUB: DEPRESSION OVER NORTHWEST CHHATTISGARH AND ADJOINING EAST MADHYA PRADESH

YESTERDAY'S DEPRESSION OVER SOUTH JHARKHAND & ADJOINING NORTH ODISHA MOVED WEST-NORTHWESTWARDS WITH A SPEED OF 25 KMPH DURING LAST 6 HOURS AND LAY CENTERED AT 0300 UTC OF TODAY, THE 15TH AUGUST OVER NORTHWEST CHHATTISGARH AND ADJOINING EAST MADHYA PRADESH NEAR LATITUDE 22.6°N AND LONGITUDE 82.0°E, ABOUT 20 KM SOUTHWEST OF PENDRA ROAD (42779), 170 KM EAST OF MANDLA (42776) AND 220 KM EAST OF JABALPUR (42675).

IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-NORTHWESTWARDS AND WEAKEN GRADUALLY DURING NEXT 12 HOURS.

AS PER INSTAD 3D IMAGERY AT 0300 UTC, SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CHHATTISGARH AND ADJOINING EAST MADHYA PRADESH. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 85°C.

ESTIMATED MAXIMUM SUSTAINED WIND SPEED AROUND SYSTEM CENTRE IS 25 KNOTS GUSTING TO 35 KNOTS. ESTIMATED CENTRAL PRESSURE IS 994 HPA. SEA CONDITION IS LIKELY TO BE ROUGH OVER NORTHWEST BAY OF BENGAL AND ALONG & OFF WEST BENGAL AND ODISHA COASTS TILL 1200 UTC OF 15TH AUGUST .

ARABIAN SEA:

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTHEAST ARABIAN SEA OFF PAKISTAN COAST. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER EASTCENTRAL AND SOUTHEAST ARABIAN SEA AND LAKSHADWEEP ISLANDS. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED WEAK TO MODERATE CONVECTION LAY OVER REST PARTS OF ARABIAN SEA, GULF OF CAMBAY AND COMORIN AREA.

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

REMARKS:

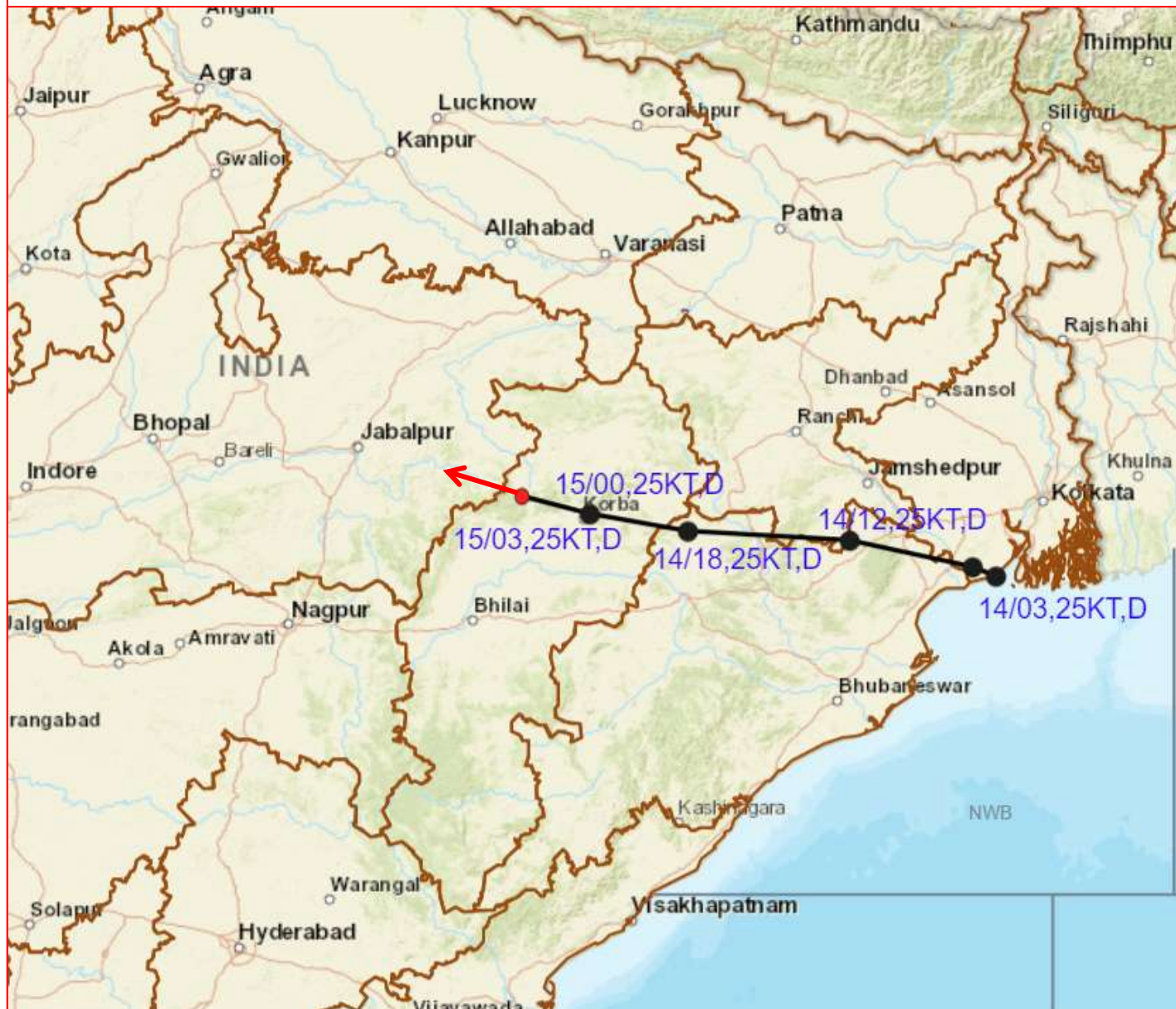
LOW LEVEL VORTICITY IS THE SAME AND IS AROUND $150 \times 10^{-6} \text{ S}^{-1}$ OVER THE SYSTEM AREA WITH VERTICAL EXTENSION UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE HAS DECREASED AND IS AROUND $15 \times 10^{-5} \text{ S}^{-1}$ TO THE WEST OF SYSTEM CENTRE. POSITIVE UPPER LEVEL DIVERGENCE IS THE SAME AND IS AROUND $20 \times 10^{-5} \text{ S}^{-1}$ OVER SYSTEM CENTRE AND ALONG THE FORECAST TRACK. WIND SHEAR IS LOW TO MODERATE (10-20 KNOTS) OVER SYSTEM AREA AND ALONG THE FORECAST TRACK. UNDER THESE FAVOURABLE ENVIRONMENTAL CONDITIONS, THE SYSTEM IS LIKELY TO MAINTAIN IT'S INTENSITY DURING NEXT 12 HOURS.

MOST OF THE NWP MODELS ARE UNANIMOUSLY INDICATING WEST-NORTHWESTWARDS MOVEMENT OF THE SYSTEM AND MODELS ARE ALSO INDICATING THE SYSTEM TO MAINTAIN IT'S INTENSITY DURING NEXT 12 HOURS.

(M. SHARMA)
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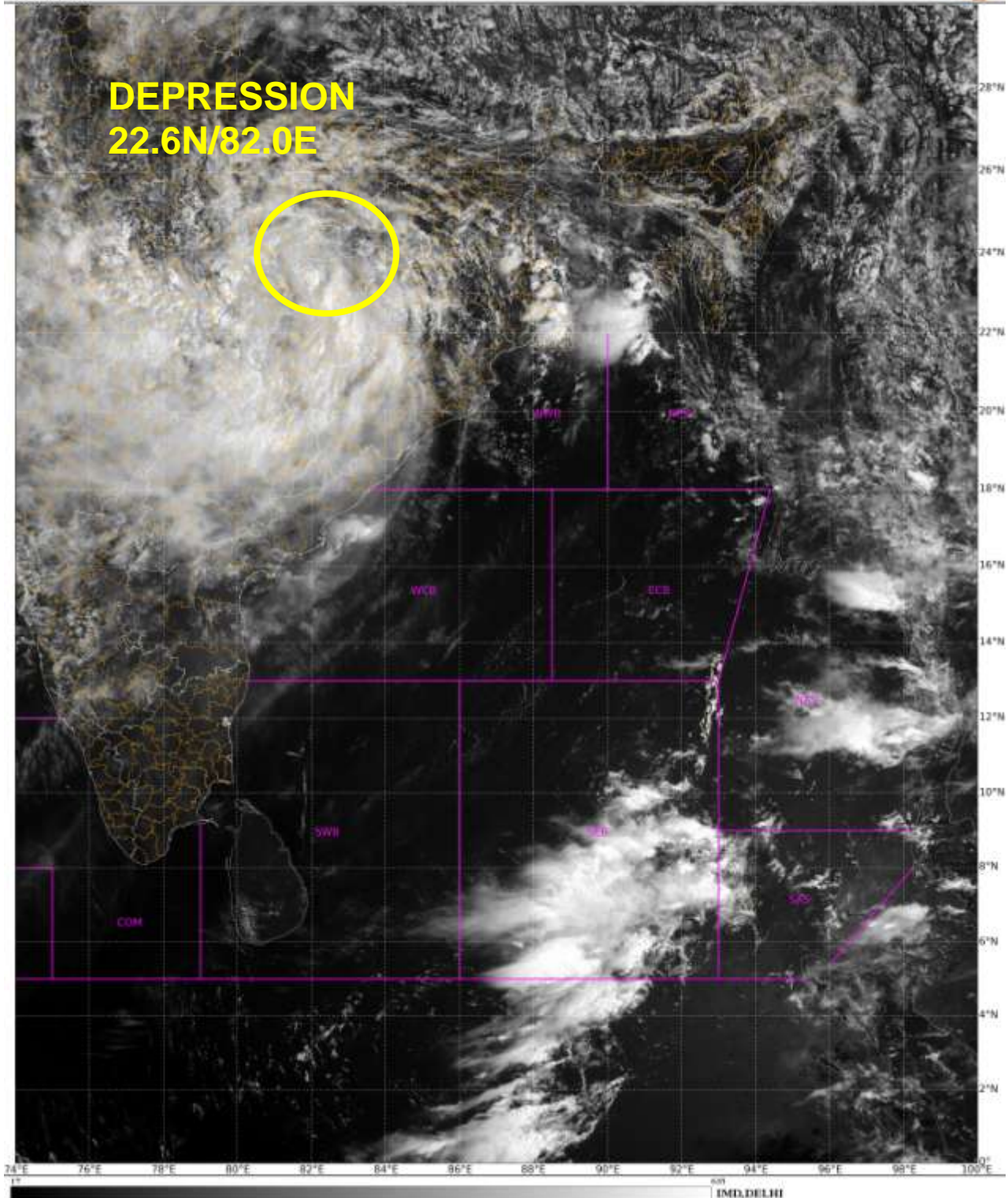
OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTHWEST CHHATTISGARH AND ADJOINING EAST MADHYA PRADESH BASED ON 0300 UTC OF 15th AUGUST, 2022



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



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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