



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 31.07.2026

SPECIAL TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 1000 UTC OF 31.07.2026 BASED ON 0600 UTC OF 31.07.2026.

Sub: Depression over central Vidarbha and adjoining south Madhya Pradesh

The Depression over western Vidarbha and adjoining south Madhya Pradesh moved west-northwestwards with a speed of 17 kmph during past 6 hours, and lay centred at 0600 UTC of today, the 31st July 2026, over the same region near latitude 21.3°N and longitude 77.8°E, 40 km north of Amraoti (42973, Maharashtra), 60 km south-southwest of Betul (42860, Madhya Pradesh), 160 km east-southeast of Khandwa (42855, Madhya Pradesh), 230 km east-southeast of Khargone (42849, Madhya Pradesh) and 260 km southeast of Indore (42754, Madhya Pradesh).

It is very likely to move nearly west-northwestwards across west Madhya Pradesh & adjoining Madhya Maharashtra and weaken into a well-marked low pressure area during next 24 hours.

The estimated central pressure is 993 hPa. The associated maximum sustained wind speed is 25 kt gusting to 35 kt.

Hoshangabad (42763, Madhya Pradesh) reported mean sea level pressure (MSLP) as 993.9 hPa, pressure change in past 24 hrs (P24) as -1.9 hPa and Calm wind. Amraoti (42937, Maharashtra) reported MSLP as 994.7 hPa, P24 as 0.0 hPa and MSW as 250⁰/03 kt. Indore (42754, Madhya Pradesh) reported MSLP as 994.6 hPa, P24 as -3.2 hPa and MSW as 20⁰/10 kt.

As per INSAT 3DS imagery at 0600 UTC of 31st July, associated scattered to broken low & medium clouds with embedded intense to very intense convection over West Madhya Pradesh, Vidarbha, Marathwada, Madhya Maharashtra, Gujarat, South Rajasthan (minimum Cloud Top Temperature is -70 to -90°C).

REMARKS:

The low level vorticity has remained unchanged during past 3 hours and is about $100 \times 10^{-6} \text{ s}^{-1}$ to the south of system. Vertically, it is extending upto 200 hPa level. The low level convergence has decreased slightly during past 6 hours and is around $20 \times 10^{-6} \text{ s}^{-1}$ to the west of system centre. Upper level divergence has increased and is around $30 \times 10^{-6} \text{ s}^{-1}$ to the southwest of system area. Vertical wind shear of horizontal wind is moderate to high 20-25 kt over the system area. However, the guidance from NCICS model indicates westerly wind anomaly (3-5 mps) alongwith prevalence of Equatorial Rossby wave (ERW) over central & adjoining south peninsular India and easterly wind anomaly (>9 mps) to its north over northwest & adjoining Westcentral India. The system is also getting moisture feedback from south Arabian Sea. These

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°Cto-40°C, (c) Intense: CTT: -41°Cto -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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features are supporting the system to maintain its intensity of depression during next 12-24 hours.

Guidance from numerical models:

Most of the models (ECMWF, GFS) are capturing the system as a depression. However ECMWF is indicating the system to weaken by 31st July/1200 UTC and NCEP GFS shows early weakening. However, both the models are indicating north-northwestwards.

Based on the observations and guidance from various numerical models:

Confidence Level in estimation of current location and intensity: **High**

Confidence Level in prediction of forecast track: **Moderate**

Confidence Level in prediction of forecast intensity: **Moderate**

Considering all the above, the depression over **western parts of Vidarbha and adjoining south Madhya Pradesh** is very likely to move west-northwestwards across West Madhya Pradesh & adjoining Madhya Maharashtra during next 24 hours.

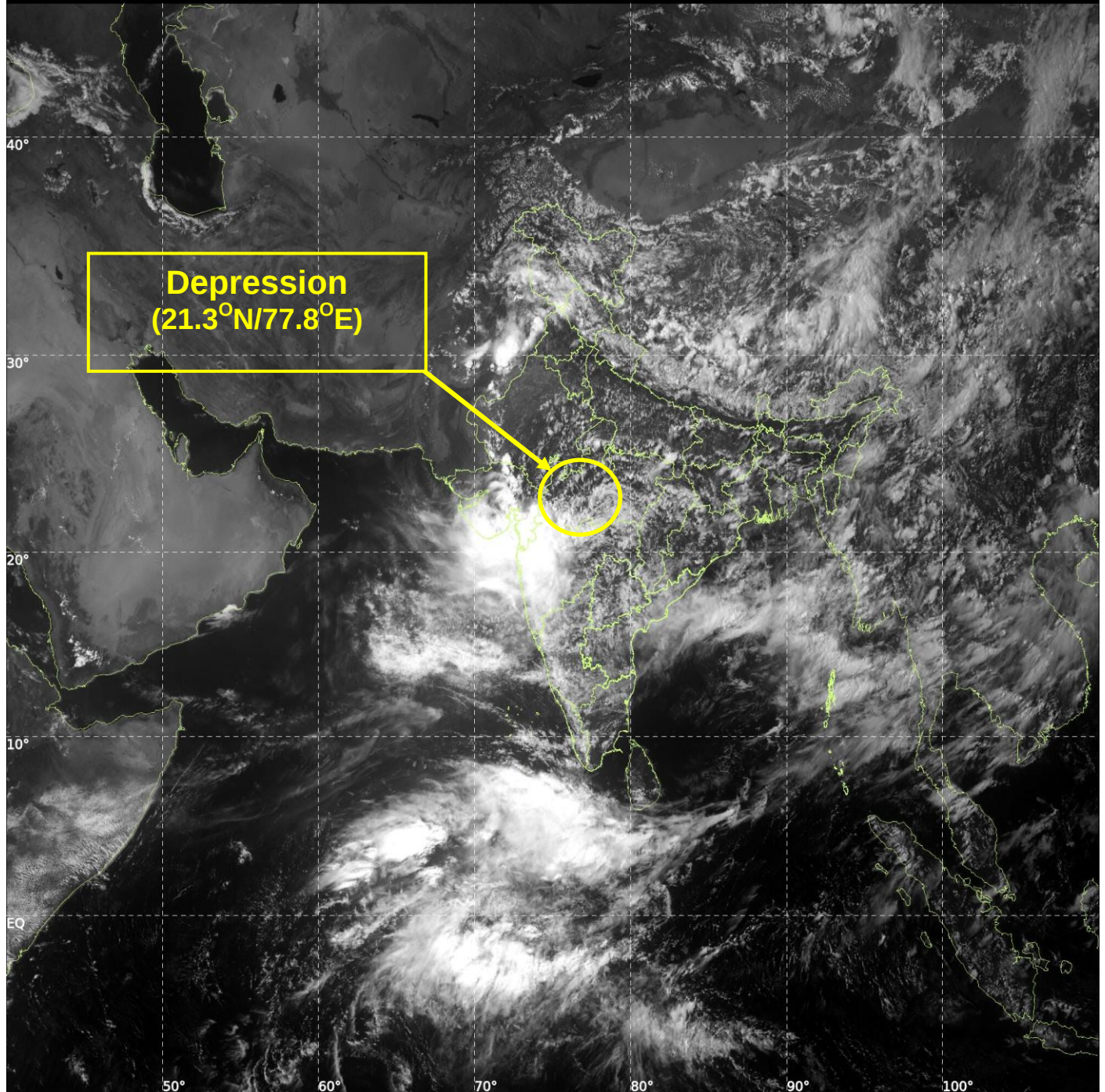
Umasankar Das
RSMC, IMD, New Delhi



INSAT-3DS IMG, Visible Count @ 0.65 μm
GMT:31-07-2026/(0900-0927) IST:31-07-2026/(1430-1457)
L1C MERCATOR (LINEAR STRETCH: 0.5%)

61

397



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OBSERVED AND FORECAST TRACK OF DEPRESSION OVER WESTERN VIDARBHA AND ADJOINING SOUTH MADHYA PRADESH BASED ON 0600 UTC (1130 Hrs. IST) OF 31st JULY 2026.



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 (≥ 120 KT)

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

Forecast distance (km) and direction of the centre from nearest 5 coastal stations

Forecast Date and Time	Lead Period (hrs)	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
31.07.26/0600	0	21.3	77.8	Amravati (40, ENE)	INDORE (260, SE)	BETUL (60, SSE)	KHANDWA (160, ESE)	KHARGOAN (230, ESE)

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