



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 2030 UTC OF 31.07.2026 BASED ON 1800 UTC OF 31.07.2026.

Sub: Depression over southwest Madhya Pradesh and adjoining East Rajasthan & Gujarat Region

The Depression over southwest Madhya Pradesh and neighbourhood moved nearly west-northwestwards with a speed of 23 kmph during past 6 hours, and lay centred at 1800 UTC of 31st July 2026, over **southwest Madhya Pradesh and adjoining East Rajasthan & Gujarat Region** near latitude 23.0°N and longitude 75.2°E, 70 km west-northwest of Indore (42754, Madhya Pradesh), 210 km east-northeast of Baroda (42748, Gujarat), 220 km southeast of Udaipur (42542, Rajasthan), 250 km south-southwest of Kota (42452, Rajasthan) and 260 km east of Ahmedabad (42647, Gujarat).

It is very likely to move west-northwestwards across west Madhya Pradesh and adjoining East Rajasthan & Gujarat Region and weaken into a well marked low pressure area during next 12 hours.

The estimated central pressure is 994 hPa. The associated maximum sustained wind speed is 20 kt gusting to 30 kt. Indore (42754, Madhya Pradesh) reported MSLP as 996 hPa, P24 as -0.8 hPa, As per INSAT 3DS imagery at 1800 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 is about $100 \times 10^{-6} \text{ s}^{-1}$ to the south of system. Vertically, it is extending upto 500 hPa level. The low level convergence has decreased slightly during past 6 hours and is around $10 \times 10^{-6} \text{ s}^{-1}$ to the west of system centre. Upper level divergence has decreased and is around $10 \times 10^{-6} \text{ s}^{-1}$ to the southwest of system area. Vertical wind shear of horizontal wind is low to moderate 10-20 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 features are supporting the system to maintain its intensity of depression during next 12 hours.

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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Guidance from numerical models:

Most of the models (ECMWF, GFS) shows weakening of the system.

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: **High**

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

Considering all the above, the depression over southwest Madhya Pradesh and adjoining East Rajasthan & Gujarat Region is very likely to move west-northwestwards across West Madhya and adjoining East Rajasthan & Gujarat Region during next 12 hours.

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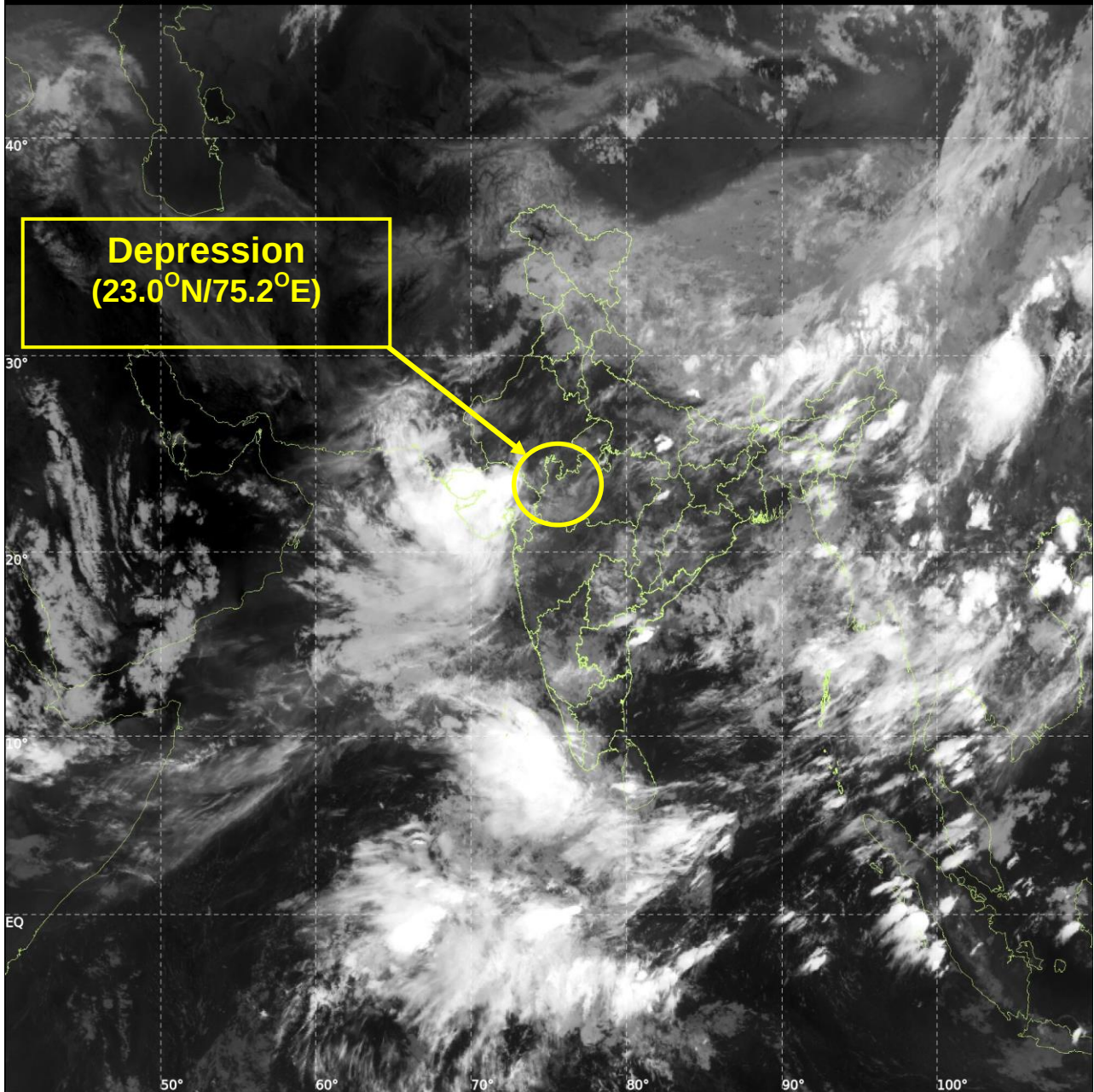


INSAT-3DS IMG, Thermal Infrared1 Count @ 10.83 μm
GMT:31-07-2026/(1930-1957) IST:01-08-2026/(0100-0127)
L1C MERCATOR (LINEAR STRETCH: 1%)

491

918

Depression
(23.0°N/75.2°E)



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OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTHWEST MADHYA PRADESH AND ADJOINING EAST RAJASTHAN & GUJRAT REGION BASED ON 1800 UTC (2330 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
31.07.26/1800	0	23.0	75.2	INDORE (70, WMW)	BARODA (210, Ene)	UDAIPUR (220, SE)	KOTA (250, SSW)	AHEMDABAD (260, E)

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