



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 29.07.2026

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 2100 UTC OF 28.07.2026 BASED ON 1800 UTC OF 28.07.2026.

Sub: Deep Depression over north interior Odisha and adjoining areas of south Jharkhand & Chhattisgarh

The Deep Depression over north interior Odisha and adjoining areas of Jharkhand moved westwards with a speed of 18 kmph during past 6 hours, and lay centred at 1800 UTC of today, the 28th July 2026, over north interior Odisha and adjoining areas of south Jharkhand & Chhattisgarh, near latitude 21.9°N and longitude 84.4°E, about 30 km east of Jharsuguda (42886,Odisha), 60 km southwest of Rourkela (42793,Odisha), 70 km northeast of Sambalpur (42883,Odisha), 110 km east of Raigarh (42884,Chhattisgarh) and 120 km west-northwest of Keonjhar (42891,Odisha).

It is very likely to move west-northwestwards across north interior Odisha and north Chhattisgarh during next 24 hours.

The estimated central pressure is 995 hPa. The associated maximum sustained wind speed is 30 kt gusting to 40 kt.

Jharsuguda (42886,Odisha) reported MSLP as 999.3 hPa and P24 as -4.3 hPa .

As per INSAT 3DS imagery at 1800 UTC of 28th July, associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over East Madhya Pradesh, Chhattisgarh, Odisha, north and central Bay of Bengal, Gangetic West Bengal and, East Vidarbha, Telangana, coastal Andhra Pradesh, north and central Bay of Bengal (minimum Cloud Top Temperature is -70 to -90°C).

REMARKS:

The low level vorticity is the same during past 6 hours and is about $150 \times 10^{-6} \text{ s}^{-1}$ over coastal

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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Odisha (India). Vertically, it is extending upto 500 hPa level. The low level convergence has increased and is around $30 \times 10^{-6} \text{ s}^{-1}$ over South Interior Odisha and adjoining Chhattisgarh & Vidarbha. Upper level divergence has also increased and is around $10-20 \times 10^{-6} \text{ s}^{-1}$ over south Odisha and adjoining Chhattisgarh & Vidarbha. Vertical wind shear of horizontal wind increased to 15-20 kt over the system area and along the predicted path. Low level wind shear is also around 10-15kt. The guidance from NCICS model indicates westerly wind anomaly (5-7 mps) alongwith prevalence of Equatorial Rossby wave (ERW), low frequency background wave (LW) and Kelvin wave (KW) over central & south BoB and easterly wind anomaly (5-7 mps) over north BoB & adjoining East India (Odisha-West Bengal). These features are providing favourable environment for maintenance of intensity of the system.

Guidance from numerical models:

ECMWF model is indicating the system to move west-northwestwards and weaken gradually into a depression by 0000 UTC of 30th July. GFS group is indicating the system to move west-northwestwards and weaken into a low pressure area during next 24 hours. There is consensus wrt movement. However, there is variation among various models wrt weakening.

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: **Moderate**

Considering all the above, the Deep Depression over north interior Odisha and adjoining areas of Jharkhand is very likely to move nearly westwards across north Odisha and adjoining south Jharkhand and north Chhattisgarh during next 24 hours.

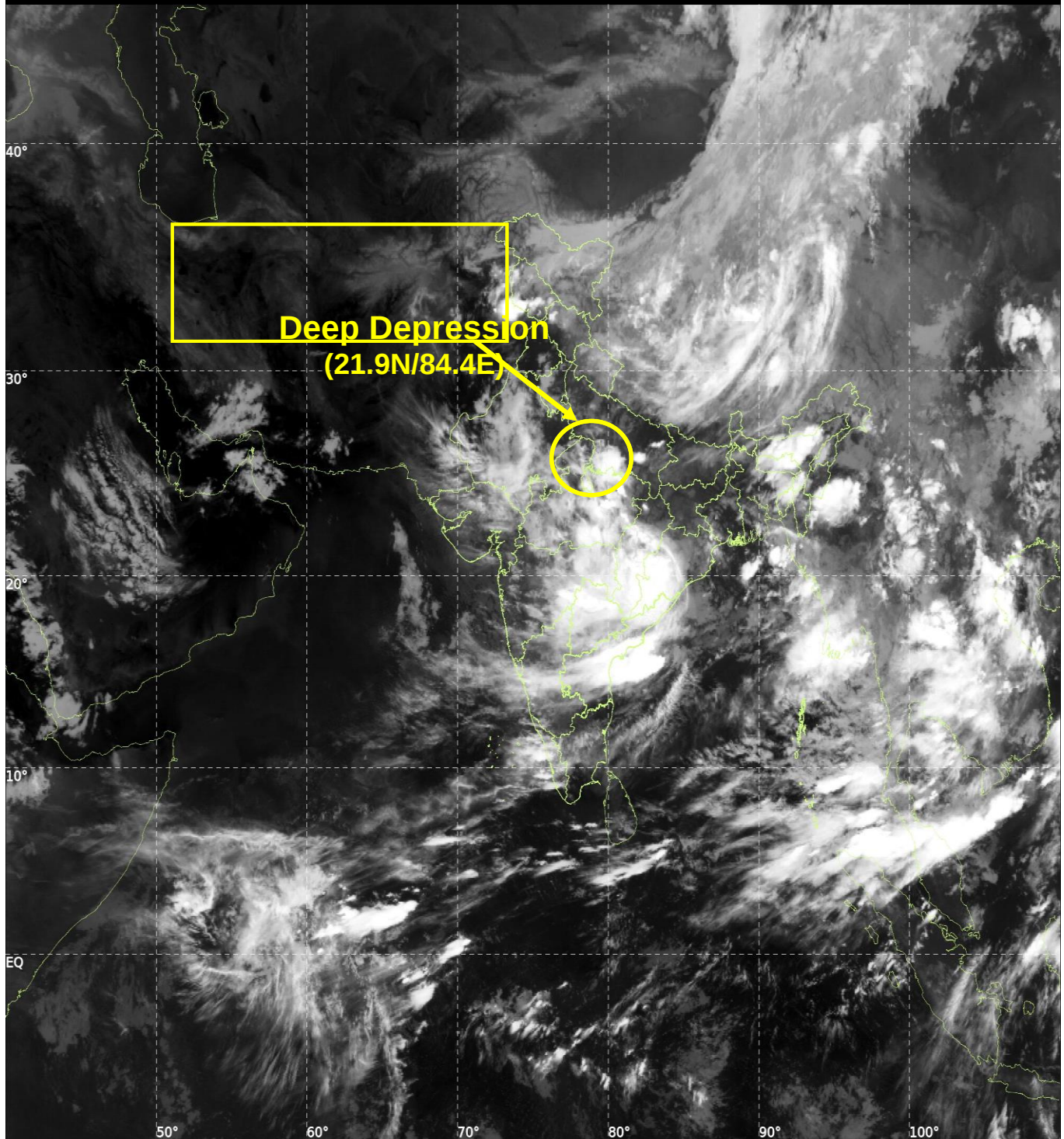
A.DHARMA RAJU
RSMC, New Delhi



INSAT-3DS IMG, Thermal Infrared1 Count @ 10.83 μm
GMT:28-07-2026/(2030-2057) IST:29-07-2026/(0200-0227)
L1C MERCATOR (LINEAR STRETCH: 1%)

506

912



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OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER NORTH INTERIOR ODISHA AND ADJOINING AREAS OF SOUTH JHARKHAND & CHHATTISGARH BASED ON 1800 UTC (2330 Hrs. IST) OF



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

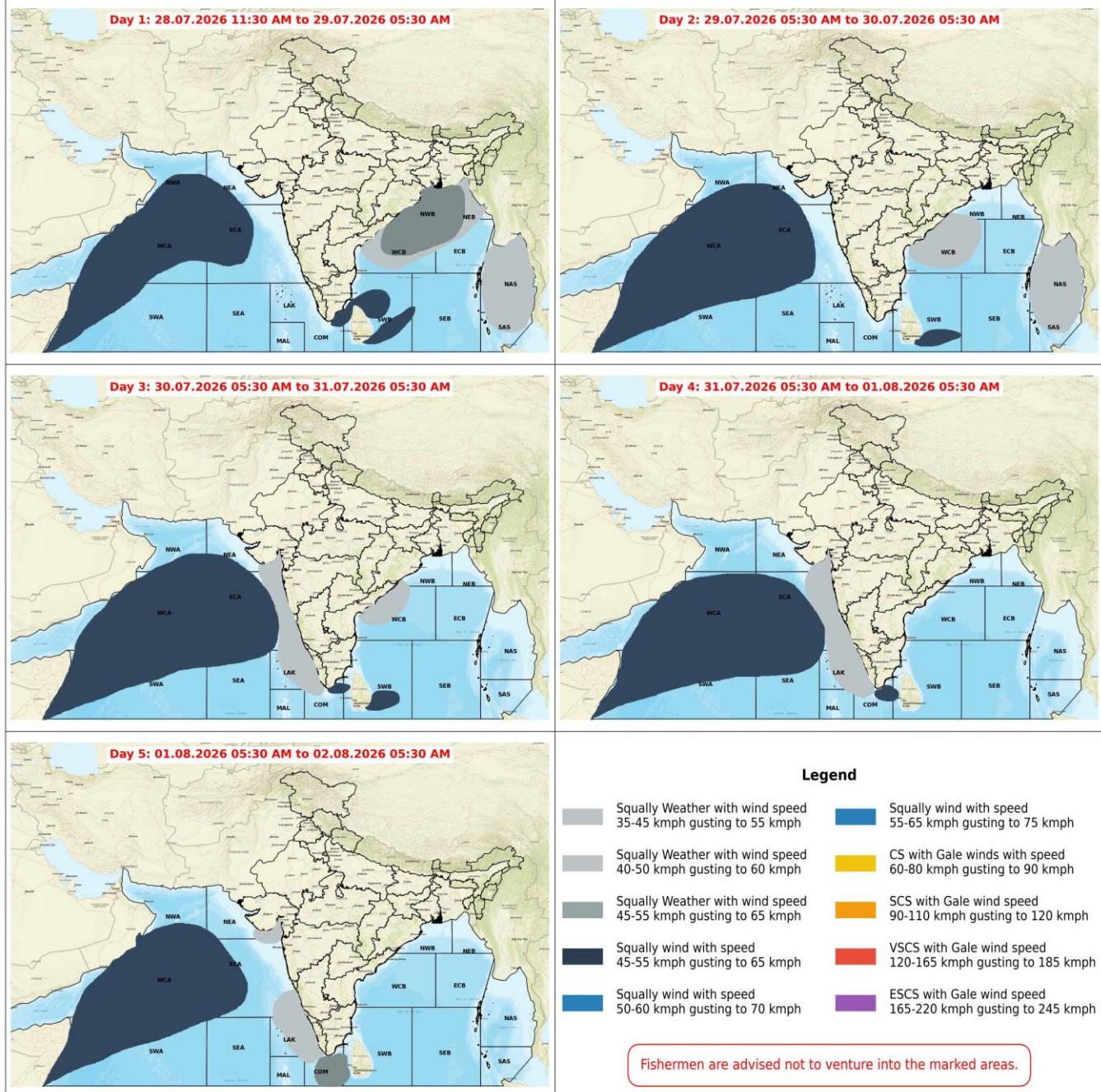
Forecast distance (km) and direction of the centre from nearest 5 coastal stations

Forecast Date and Time	Lead Period (hrs)	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
28.07.26/1800	0	21.9	84.4	JHARSIGUDA (30, E)	ROURKELA (60, SW)	SAMBALPUR (70, NE)	RAIGARH (110, E)	KEONGJHARGARH (120, WNW)

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Fishermen Warning Graphics



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