





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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 01.12.2025
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 0400 UTC OF 01.12.2025 BASED ON 0000 UTC OF 01.12.2025.

Sub: Deep Depression (Remnant of Cyclonic Storm Ditwah) over southwest Bay of Bengal and adjoining areas of westcentral Bay of Bengal, North Tamil Nadu-Puducherry & South Andhra Pradesh coasts

The Deep Depression (Remnant of Cyclonic Storm Ditwah) over southwest Bay of Bengal and adjoining north Tamil Nadu-Puducherry coasts moved northwards with the speed of 10 kmph during past 6 hours and lay centered at 0000 UTC of today, the 01st December 2025 over southwest Bay of Bengal and adjoining areas of westcentral Bay of Bengal, North Tamil Nadu-Puducherry & South Andhra Pradesh coasts, near latitude 12.8°N and longitude 80.6°E, about 50 km east-southeast of Chennai (42379, 130 km northeast of Puducherry (43331), 150 km northeast of Cuddalore (43329), 200 km south-southeast of Nellore (43245).

The minimum distance of the centre of the deep depression from north Tamil Nadu-Puducherry coasts is about 40 km.

It is very likely to move slowly northwards parallel to North Tamil Nadu-Puducherry and south Andhra Pradesh coasts and weaken into a depression during next 12 hours. The system will be centered over southwest & adjoining west central Bay of Bengal within a minimum distance of 30 km from the Chennai coast by noon of today, the 01st December.

The system is being monitored by the Doppler Weather Radars (DWR) at Chennai.

Forecast track and intensity are given in Table below

Date/Time (UTC)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
01.12.25/0000	12.8/80.6	50-60 gusting to 70	Deep Depression
01.12.25/0600	13.0/80.6	50-60 gusting to 70	Deep Depression
01.12.25/1200	13.2/80.6	45-55 gusting to 65	Depression

As per INSAT 3DR at 0000 UTC, the intensity is characterized as T2.0. The associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over westcentral Bay of Bengal and adjoining North coastal Andhra Pradesh, Odisha, Chhattisgarh with minimum cloud top temperature (CTT) is minus 70-90 degree Celsius). Moderate to intense convection lay over Southwest Bay of Bengal (minimum CTT minus 50-70 degree Celsius) and weak to moderate convection lay over Telangana, South Interior Karnataka, Rayalaseema, South coastal Andhra Pradesh and Tamil Nadu with minimum CTT minus 25-40 degree Celsius.

The estimated central pressure is about 1004 hPa. The associated maximum sustained wind speed is about 30 knots gusting upto 40 knots.

Sea condition is very rough to rough over southwest & adjoining westcentral Bay of Bengal & adjoining areas of north Sri Lanka, Gulf of Mannar, Comorin area and along & off Tamil Nadu-Puducherry & South Andhra Pradesh coasts.

REMARKS:

The guidance from various models indicates that the Madden Julian Oscillation (MJO) index is presently in phase 7 with amplitude more than 1 and is likely to continue in same phase during next 5 days. The sea surface temperature (SST) is around 28°C over southwest Bay of Bengal and along & off Sri Lanka, Tamil Nadu & South Andhra Pradesh coast along the forecast track. The SST reduces to the north (North of 15°N) being 27°C.

The guidance from NCICS model indicates westerly wind anomaly (7-9 mps) along with prevalence of Equatorial Rossby Wave (ERW), Kelvin wave (KW) and low frequency background wave (LW) over the southern parts of the Bay of Bengal (BoB) and easterly wind anomaly (3-5 mps) to its north over southwest BoB near Tamil Nadu-Andhra Pradesh coasts on 1st December. Thereafter, slight weakening of these features is indicated from 2nd December onwards. Various equatorial waves which are currently prevalent over southwest Bay of Bengal are also likely to move away.

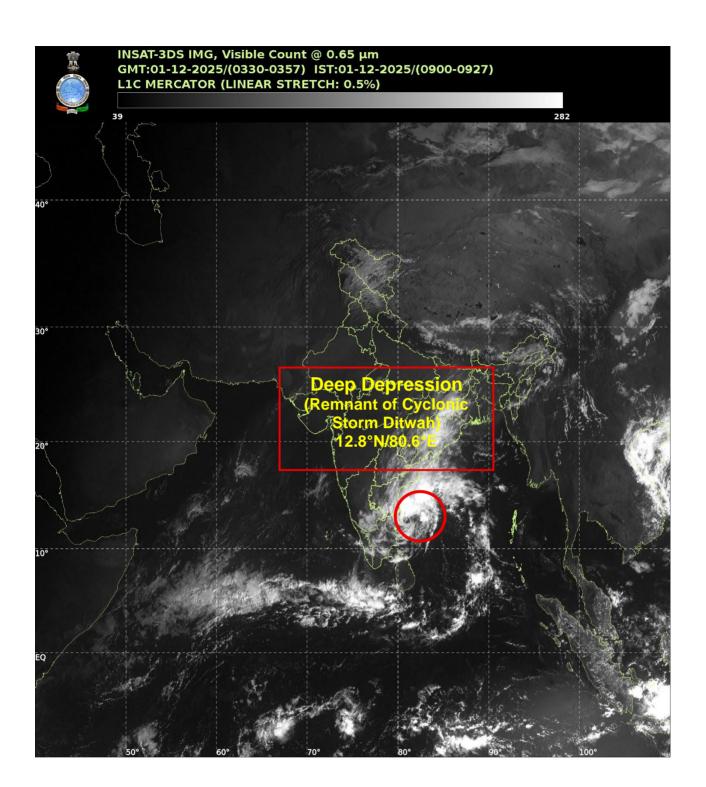
The Low level relative vorticity at 850 hPa has decreased and is about $120-130\times10^{-6}$ s⁻¹ over southwest Bay of Bengal to the south of system centre. Vertically the positive vorticity zone is extending up to 500 hPa, indicating decrease in vertical extension of the system. Upper-level divergence is around 10×10^{-6} s⁻¹ to the southwest and another to the north of system centre. Low-level convergence has increased and is around 20×10^{-6} s⁻¹ over system centre. Mid layer shear is moderate to high around 20-25 kts and anti-cyclonic over the system area. Cold and dry air incursion has also reached upto northeast sector. System is currently in moderately favourable environment and hence would weaken slowly.

There is good consensus among various models with respect to maintenance of intensity of the system during next 24 hours and also slow movement over southwest & adjoining Westcentral Bay of Bengal along & off Tamil Nadu coast till 01st December/1200 UTC. Thereafter, models are indicating slow southeastwards movement followed by gradual northwestwards movement till 03rd December/ 0000 UTC.

The forecast is based on the initial conditions and the consensus model guidance.

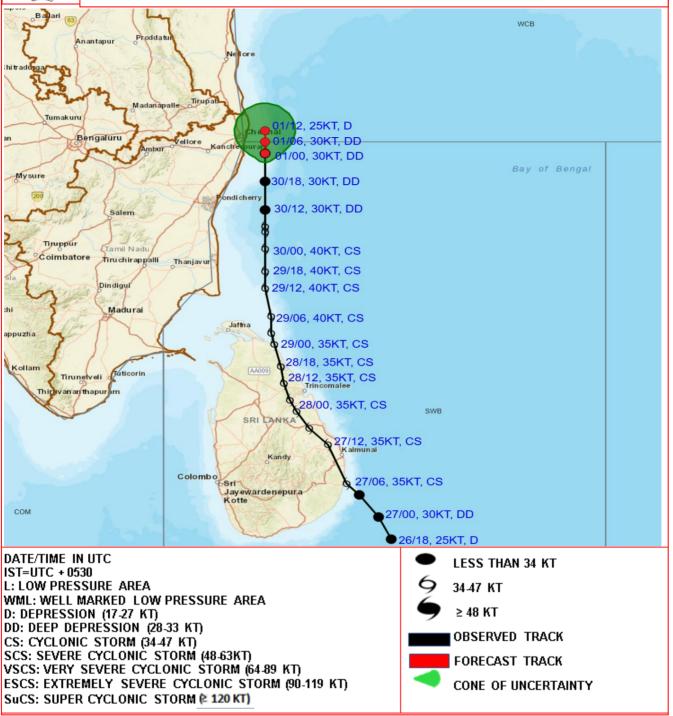
- (i) Confidence level in estimation of current location of Cyclonic Storm: High
- (ii) Confidence level in estimation of estimation of current intensity: High
- (iii) Confidence level in forecast track: Moderate
- (iv) Confidence level in forecast intensity: High

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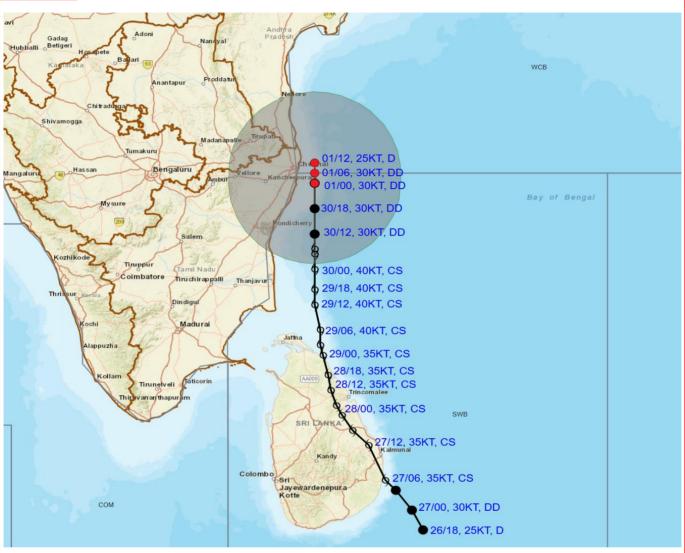
OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM "DITWAH") OVER SOUTHWEST AND ADJOINING AREAS OF WESTCENTRAL BAY OF BENGAL, NORTH TAMILNADU-PUDUCHERRY & SOUTH ANDHRA PRADESH COASTS BASED ON 0000 UTC (0530 Hrs. IST) OF 1ST DECEMBER 2025



Forecast distance (km) and direction of the centre from nearest 5 coastal stations					
Forecast Date and Time	Station 1	Station 2	Station 3	Station 4	Station 5
01.12.25/0000	CHENNAI/MINAMBAKKA M (50,ESE)	NUMGAMBAKKAM (53,SE)	TIRUTTANI (122,ESE)	MO PONDICHERRY (126,NE)	TIRUPATHI (146,SE)
01.12.25/0600	NUMGAMBAKKAM (44,E)	CHENNAI/MINAMBAKKA M (47,ENE)	TIRUTTANI (116,E)	TIRUPATHI (127,ESE)	MO PONDICHERRY (152,NE)
01.12.25/1200	NUMGAMBAKKAM (57,NE)	CHENNAI/MINAMBAKKA M (63,NE)	TIRUPATHI (114,ESE)	TIRUTTANI (119,ENE)	NELLORE (135,SSE)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM "DITWAH") OVER SOUTHWEST AND ADJOINING AREAS OF WESTCENTRAL BAY OF BENGAL, NORTH TAMILNADU-PUDUCHERRY & SOUTH ANDHRA PRADESH COASTS BASED ON 0000 UTC (0530 Hrs. IST) OF 1ST DECEMBER 2025



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)

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

9 ≥ 48 KT

OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

AREA OF MAXIMUM SUSTAINED WIND SPEED:

28-33 KT (52-61 KMPH) 34-49 KT (62-91 KMPH)

■ 50.63 KT (92.117 KMPH) □ ≥64 KT (≥118 KMPH)

IMPACT	OVER	THE	CEV.
HVIPACI	OAER	IHE	364

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

