



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 18.08.2025**

**TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0700 UTC OF 18.08.2025 BASED ON 0300 UTC OF 18.08.2025.**

### **BAY OF BENGAL:**

Yesterday's low pressure area over westcentral and adjoining northwest Bay of Bengal off north Andhra Pradesh and south Odisha coasts lay as a well marked low pressure area over westcentral & adjoining northwest Bay of Bengal and north Andhra Pradesh-south Odisha coasts at 0000 UTC and persisted over the same region at 0300 UTC of today, the 18th August 2025. The associated cyclonic circulation extended upto 9.6 km above mean sea level tilting southwestwards with height.

It is likely to move west-northwestwards and concentrate into a depression during next 12-hours and cross south Odisha-north Andhra Pradesh coasts around 0300 UTC of 19th August, 2025.

Associated maximum sustained wind speed is 10-15 kt gusting to 25 kt and the estimated central pressure is 998 hPa. Sea condition is rough over central & adjoining northwest & southwest BoB.

Kalingapatnam (43105) reported lowest mean sea level pressure (MSLP) of 998.7 hPa and pressure change in past 24 hours (P24) as -0.4 hPa. Visakhapatnam (43150) reported MSLP of 998.7 hPa and P24 as -0.3 hPa. Gopalpur (43049) reported MSLP of 999.5 hPa and P24 as -0.8 hPa. Puri (43049) reported MSLP of 1000.1 hPa and P24 as -0.7 hPa. A ship near 16.4N/88.0E reported MSLP of 1002.5 hPa and maximum sustained wind speed of 227<sup>0</sup>/10 kt.

The cloud mass is sheared to the south of system centre. As per INSAT 3D imagery at 0300 UTC, the vortex over westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh & south Odisha coasts and neighbourhood is centred within a half a degree near 18.1 N/ 84.5 E. Intensity of the system is T1.0. Strong equatorward outflow is also indicated. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over south Chhattisgarh, north coastal Andhra Pradesh, Telangana, central & adjoining south Bay of Bengal, coastal Andhra Pradesh (Minimum cloud top temperature (CTT) is minus 70 to 90 °C) and moderate to intense convection lay over Odisha & north Bay of Bengal (Minimum CTT is minus 50 to 60 °C). The Ocean Sat 3 pass at 1800 UTC of 17<sup>th</sup> August indicates strong winds (20-30 kt) winds in the southern sector, 15-20 kt in northeast sector and 10-15 kt over northwest Bay of Bengal off Odisha & Gangetic West Bengal coasts .

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over Bay of Bengal and north Andaman Sea. Scattered low and medium clouds with embedded isolated moderate to intense convection lay over south Andaman Sea.

**\*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
HIGH	NIL	NIL	NIL	NIL	NIL	NIL

**\*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY**

**ARABIAN SEA:**

Yesterday's upper air cyclonic circulation over Northeast Arabian Sea & adjoining south Gujarat and Konkan coasts lay over Northeast Arabian Sea & adjoining Gujarat at 0000 UTC of today, the 18th August extended upto 3.1 km above mean sea level.

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over east Arabian Sea and moderate to intense convection lay over rest parts of the Arabian Sea, Lakshadweep Islands, Maldives & Comorin area.

**\*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

**\*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY**

**ACTION SUGGESTED FOR FISHERMEN:**

Fishermen are advised not to venture into south, central & adjoining northwest Bay of Bengal and south Bay of Bengal and along & off Andhra Pradesh-Odisha coasts till 19<sup>th</sup> August. Those out at sea are advised to return to coast by today/ 1200 UTC.

**REMARKS:** Madden Julian Oscillation (MJO) is likely to be in phase 4 with amplitude more than 1 during next 4 days favouring increase in convective clouds. As per guidance from NCICS model, there is likelihood of prevalence of westerly wind anomaly (7-9 mps) over south Bay of Bengal (BoB), easterly wind anomaly (7-9 mps) over north BoB alongwith Equatorial Rossby wave (ERW) over central BoB on 18<sup>th</sup> August. As per guidance from CIMSS, the low level vorticity has increased in past 24 hours and is about  $90-100 \times 10^{-6} \text{ s}^{-1}$  over westcentral BoB and is extending upto 500 hPa level. The low level convergence is the same in past 24 hours and is around  $10 \times 10^{-6} \text{ s}^{-1}$  to the south of system centre. The upper level divergence has decreased and is around  $20 \times 10^{-6} \text{ s}^{-1}$  to the south of system centre. Mid-level vertical wind shear (VWS) of horizontal wind is moderate to high 20-25 kt over westcentral BoB. Deep layer wind shear is also moderate to high (20-25 kt) over the system area. However, as the system would move further northwards, it would enter into a zone with low to moderate vertical wind shear (10-15 kt). Most of the environmental features except VWS indicate a favourable environment for further intensification of the system.

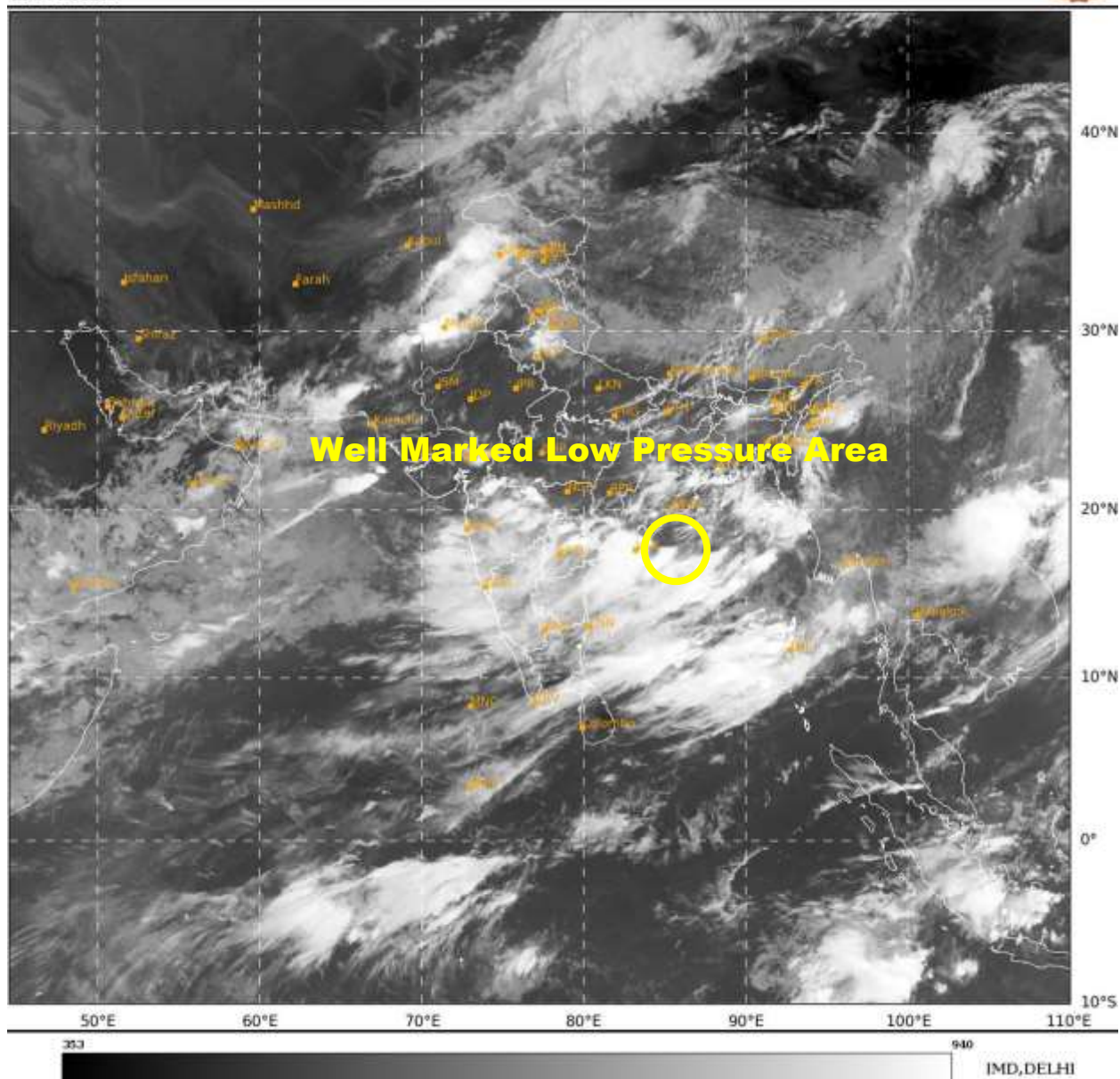
Models like NCUM and NCEP GFS are indicating low pressure area over westcentral & adjoining northwest Bay of Bengal on 18<sup>th</sup> August with west-northwestwards movement and weakening into a cyclonic circulation on 19<sup>th</sup> August. IMD GFS and ECMWF are indicating depression over westcentral Bay of Bengal on 18<sup>th</sup>/0000 UTC. These models are indicating northwestwards movement and weakening into a low pressure area around 19/1200 UTC. ECMWF is indicating very slow north-northeastwards movement along the Andhra Pradesh-Odisha coasts and crossing over Odisha coast around 19/0300 UTC between Berhampur and Puri as a depression.

Considering all the above, the well marked low pressure area westcentral & adjoining northwest Bay of Bengal and north Andhra Pradesh-south Odisha coasts is likely to move west-northwestwards and concentrate into a depression during next 12-hours and cross south Odisha-north Andhra Pradesh coasts around 0300 UTC of 19th August, 2025.

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SAT : INSAT-3DR IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

18-08-2025/(0315 to 0342) GMT  
18-08-2025/(0845 to 0912) IST



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°Cand(d)Very Intense::Less than -70°C  
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,MODERATE:34-66%ANDHIGH:67-100%  
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins