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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 28.05.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0600 UTC OF 28.05.2025 BASED ON 0300 UTC OF 28.05.2025.

BAY OF BENGAL:

YESTERDAY'S LOW PRESSURE AREA OVER NORTHWEST BAY OF BENGAL OFF ODISHA COAST BECAME WELL MARKED AT 0000 UTC AND PERSISTED OVER THE SAME REGION AT 0300 UTC OF TODAY, THE 28TH MAY 2025. IT IS LIKELY TO MOVE SLOWLY NORTHWARDS AND CONCENTRATE INTO A DEPRESSION OVER NORTH BAY OF BENGAL DURING NEXT 24 HOURS.

LOW LEVEL CIRCULATION (LLC) OVER NORTH-WEST BAY OF BENGAL OF BENGAL OFF ODISHA-ANDHRA PRADESH COASTS & NEIBOURHOOD. ASSOCIATED INTENSE TO VERY INTENSE CONVECTION LAY OVER COASTAL ANDHRA PRADESH AND ODISHA. (MINIMUM CLOUD TOP TEMPERATURE MINUS 75-85 DEG CEL) AND MODERATE TO INTENSE CONVECTION LAY OVER CHHATTISHGARH, JHARKHAND, GANGETIC WEST BENGAL AND BANGLADESH.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER BAY OF BENGAL AND 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
MOD	HIGH	NIL	NIL	NIL	NIL	NIL

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

ARABIAN SEA:

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER WESTCENTRAL & SOUTH ARABIAN SEA LAKSHADWEEP ISLANDS AREA MALDIVES & COMORIN AREA AND WEAK TO MODERATE CONVECTION LAY OVER REST OF ARABIAN 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
NIL	NIL	NIL	NIL	NIL	NIL	NIL

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

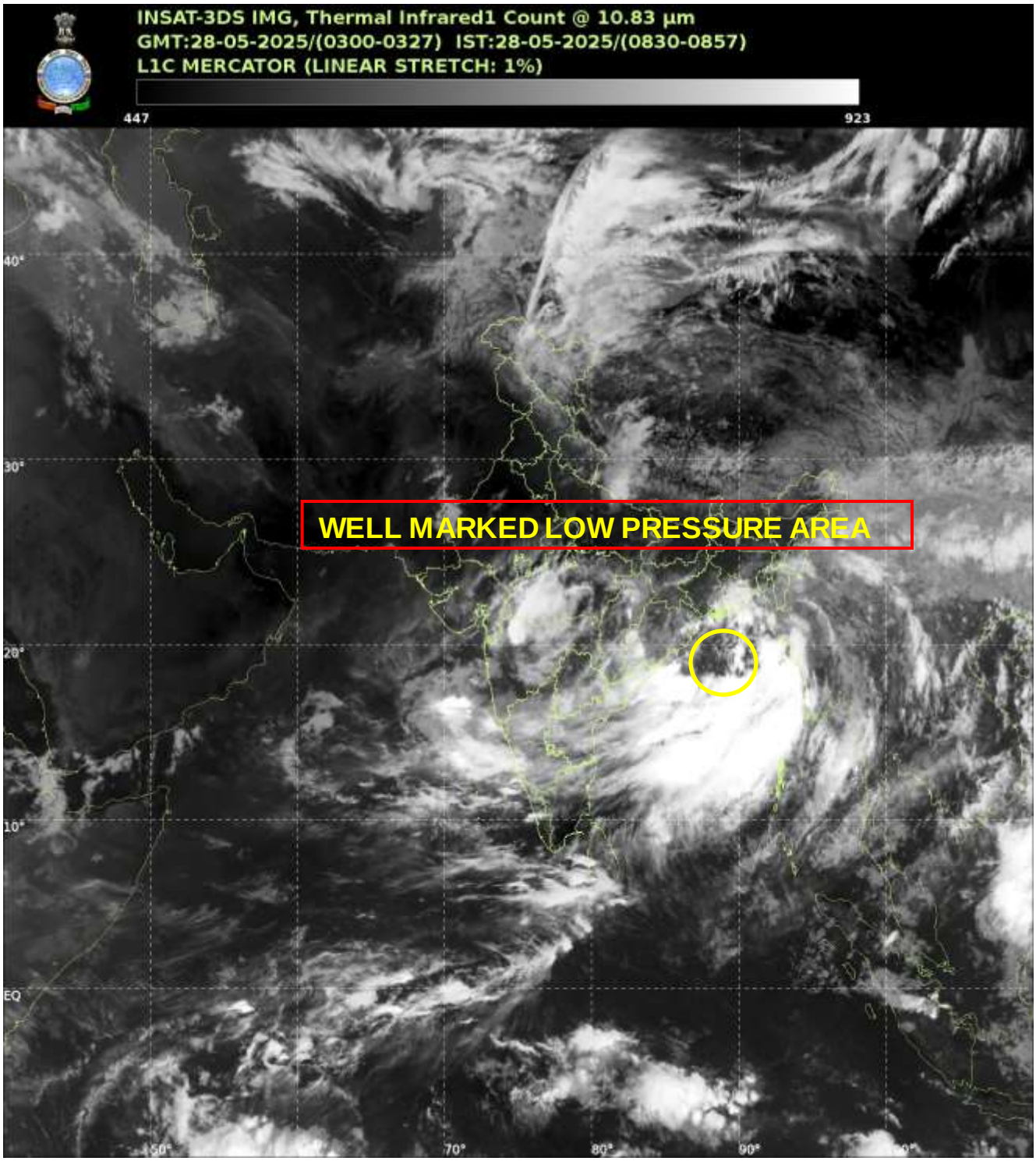
Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature(CTT)>-25°C,(b)Moderate:CTT:-25°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,,MODERATE:34-66%ANDHIGH:67-100%
ThisisaguidanceBulletinforWMO/ESCAPPanelMembercountries.VisitrespectiveNationalwebsitesforCountryspecific Bulletins

Remarks:

The sea surface temperature is 30-32^{0}C over entire the Bay of Bengal (BoB). The Madden Julian Oscillation (MJO) is in phase 5 with amplitude more than 1 during next 3 days and with amplitude less than 1 in the same phase thereafter. The guidance from NCICS model indicates strong westerly wind anomaly (5-7 mps) over the south Bay of Bengal (BoB) and strong easterly wind anomaly (5-7 mps) over north BoB till 30th May. The Equatorial Rossby wave (ERW) is likely to move westwards across peninsular India and central Arabian Sea (AS) during next 3 days. The Kelvin waves are also likely to move eastwards across north BoB during the same period.

The vertical wind shear is moderate (5-10) over the system. Relative vorticity is 100 $X10^{-5}$ s^{-1} over northeast to northwest Bay of Bengal, low level convergence is $30X10^{-5}$ s^{-1} over northeast Bay of Bengal off Bangladesh, Myanmar coasts, upper level divergence is of the order of $30X10^{-5}$ s^{-1} over southeast to east central Bay of Bengal and of the order of $20X10^{-5}$ s^{-1} over west central Bay of Bengal. As per total precipitable water content, there is warm air over the entire region extending over Gangetic West Bengal and Bangladesh. The large-scale environmental features along with all dynamical parameters are supportive for further intensification of well-marked low-pressure system over the region. However, the moderate to strong shear over the region due to advancement of the southwest monsoon is limiting the intensification. Moreover, the system is not getting sufficient time before its landfall for further intensification over sea area.

The analyses of models like NCEP GFS, IMD GFS and ECMWF are indicating the prevailing Well-Marked Low-pressure area (WML) over northwest Bay of Bengal off Odisha coast. The forecasts of the models are also in consensus to indicate that the Well marked low pressure area is likely to move slowly northwards and intensify into depression over north Bay of Bengal during next 24 hours.



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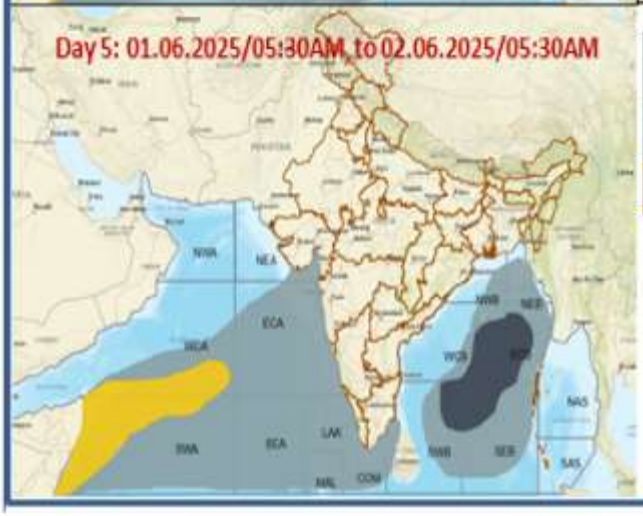
Fishermen Warning Graphics



	Squally Weather with wind speed 35-50 kmph gusting to 60 kmph
	Squally weather with wind speed 45-55 kmph gusting to 65 kmph
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Fishermen are advised not to venture into the marked areas.

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