



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 23.11.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0900 UTC OF 23.11.2025 BASED ON 0300 UTC OF 23.11.2025.

BAY OF BENGAL:

(A) Well Marked Low pressure area over Strait of Malacca and adjoining south Andaman Sea

(B) Likely formation of a low pressure area over Comorin and adjoining areas of southwest Bay of Bengal & Sri Lanka

(A) Well Marked Low pressure area over Strait of Malacca and adjoining south Andaman Sea

Yesterday's low pressure area over Strait of Malacca and adjoining south Andaman Sea lay as a well marked low pressure area over the same region at 0830 hours IST of today, the 23rd November, 2025. It is very likely to move west-northwestwards and intensify into a depression over southeast Bay of Bengal and adjoining south Andaman Sea on 24th November 2025. Continuing to move further west-northwestwards, it is very likely to intensify into a cyclonic storm over southeast Bay of Bengal during subsequent 48 hours.

As per INSAT 3DS at 0300 UTC, vortex over Strait of Malacca and adjoining South Andaman Sea & neighbourhood centered within half a degree of 5.5°N/99.3°E. Intensity T1.0. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over south Andaman Sea, Strait of Malacca & neighbourhood (minimum CTT minus 70-90 degree Celsius). Scattered to broken low and medium clouds with embedded intense to very intense convection lay over south Bay of Bengal and south Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over westcentral Bay of Bengal.

The estimated central pressure is about 1011 hPa. The associated maximum sustained wind speed is about 15-20 knots gusting to 30 knots. Sea condition is moderate over Malacca Strait and adjoining south Andaman Sea.

(B) Likely formation of a low pressure area over Comorin and adjoining areas of southwest Bay of Bengal & Sri Lanka

An upper air cyclonic circulation lay over Comorin area and neighbourhood at 0830 hours IST of today, the 23rd November, 2025. Under its influence, a low-pressure area is likely to form over Comorin and adjoining areas of southwest Bay of Bengal & Sri Lanka around 25th November.

***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
LOW	MOD	HIGH	HIGH	-	-	-

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

ARABIAN SEA:

Yesterday's upper air cyclonic circulation over southeast Arabian Sea persisted over the same region at 0300 UTC of today, the 23rd November.

As per INSAT 3DS at 0300 UTC, scattered to broken low and medium clouds with embedded moderate to intense convection lay over eastcentral & south Arabian Sea, Lakshadweep Islands, Maldives and 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**

REMARKS:

The guidance from various models indicates that the Madden Julian Oscillation (MJO) index is presently in phase 6 with amplitude more than 1. Most of the models suggest that the MJO index is likely to remain in phase 6 with a slow eastward propagation and increasing amplitude during the next six days. The sea surface temperature is around 28^oC over south Andaman Sea adjoining Malacca Strait and southeast Bay of Bengal (BoB). It is higher around 30^oC over central BoB and along & off Odisha and Andhra Pradesh coasts. Ocean thermal energy is 150-175 KJ/cm² over south Andaman Sea and 100-120 KJ/cm² over southeast BoB. However, it is less than 50 KJ/cm² over westcentral BoB and along & off Odisha and Andhra Pradesh coasts.

The guidance from NCICS model indicates westerly wind anomaly (5-7 mps) alongwith prevalence of MJO, Equatorial Rossby wave (ERW), low frequency background wave (LW) over the southern parts of the North Indian Ocean (NIO) including south BoB and southeast Arabian Sea (AS) and easterly wind anomaly (3-5 mps) to its north over south & adjoining central parts of BoB during 23rd - 24th November. These features indicate a favorable environment for cyclogenesis (development of depression) over southeast BoB around 24th November. Model is also indicating a Kelvin Wave (KW) over northern parts of BoB, which is opposing the normal easterly flow over central parts of BoB. Similarly, during 25th to 30th, the model is indicating strong westerly wind anomaly (7-9 mps) alongwith prevalence of MJO, ERW, LW & KW over the southern parts of the North Indian Ocean (NIO) including south BoB and southeast Arabian Sea (AS) and easterly wind anomaly (5-7 mps) over north BoB. These features are favourable for further intensification of the system over southwest & westcentral BoB. Model is also indicating weakening of easterlies during 1st to 3rd December over northern parts of BoB, which may lead to weakening of system as it recurves north-northeastwards and reaches central & adjoining North BoB.

Thermodynamic features:

Well marked low pressure area over Malacca Strait & adjoining South Andaman Sea: The low level relative vorticity at 850 hPa is the same and is about $90-100 \times 10^{-6} \text{ s}^{-1}$ over Malacca Strait. Vertically, the positive vorticity zone over Malacca Strait is extending upto 500hPa.

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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Upper-level divergence has increased and is around $30 \times 10^{-6} \text{ s}^{-1}$ over Malacca Strait and adjoining south Andaman Sea. Low-level convergence is the same (around $20 \times 10^{-6} \text{ s}^{-1}$) over Malacca Strait. Mid-level vertical wind shear (VWS) of horizontal wind is low (5-10 kt) and cyclonic over entire south Bay & south Andaman Sea. Upper tropospheric ridge runs along 10°N over the BoB. The system is lying to the south of ridge. East-southeasterly winds prevailing to the south of ridge are steering the system nearly west-northwestwards.

Upper air cyclonic circulation over Comorin Area: The low level relative vorticity at 850 hPa is about $70\text{-}80 \times 10^{-6} \text{ s}^{-1}$ over Comorin Area and adjoining southwest Sri Lanka. Vertically, the positive vorticity zone is extending upto 500hPa. Upper-level divergence is around $30 \times 10^{-6} \text{ s}^{-1}$ over Comorin Area and adjoining southwest Sri Lanka. Low-level convergence is around $30 \times 10^{-6} \text{ s}^{-1}$ lay over Comorin and adjoining areas. Mid-level vertical wind shear (VWS) of horizontal wind is low (5-10 kt) and cyclonic over the region.

Most of the models (GFS & NCUM group) are indicating the well-marked low pressure area over Malacca Strait as on today the 23rd November 2025. Models are also indicating its west-northwestward movement and intensification into a depression during 24th/25th November over south Andaman Sea & adjoining southeast Bay of Bengal. There is consensus that the system over Malacca Strait is likely to intensify into a CS around 26th/27th November. Models are also indicating initial west-northwestward movement till 27th November towards southwest Bay, followed by north-northwestwards movement till 30th November, as it is expected to be closer to the south of ridge and gradual northeastwards re-curvature thereafter towards northeast Bay, as it crosses the ridge. However, ECMWF is indicating development of depression over Malacca & adjoining south Andaman Sea around 24th with intensification, but movement over the same region and weakening over south Andaman Sea around 2nd December. It is also indicating the cyclonic circulation over Comorin Area to gradually move along the South Sri Lanka coast and emerge into southwest BoB around 27th, intensify further and over southwest BoB. However, while moving northwards, it is weakening over sea near North Andhra Pradesh coast. There is large variation among various models with respect to point and time of re-curvature.

In view of above, the low pressure area over Strait of Malacca and adjoining South Andaman Sea is very likely to move west-northwestwards and intensify into a depression over southeast Bay of Bengal around 24th November 2025. Continuing to move west-northwestwards, it is very likely to intensify further over southwest Bay of Bengal during subsequent 48 hours.

- (i) Confidence level in determination of location of well marked low pressure area : High
- (ii) Confidence level in determination of intensity well marked low pressure area : High
- (iii) Confidence level in forecast of intensification (formation of Depression): High
- (iv) Confidence level in forecast of location of Depression: Moderate

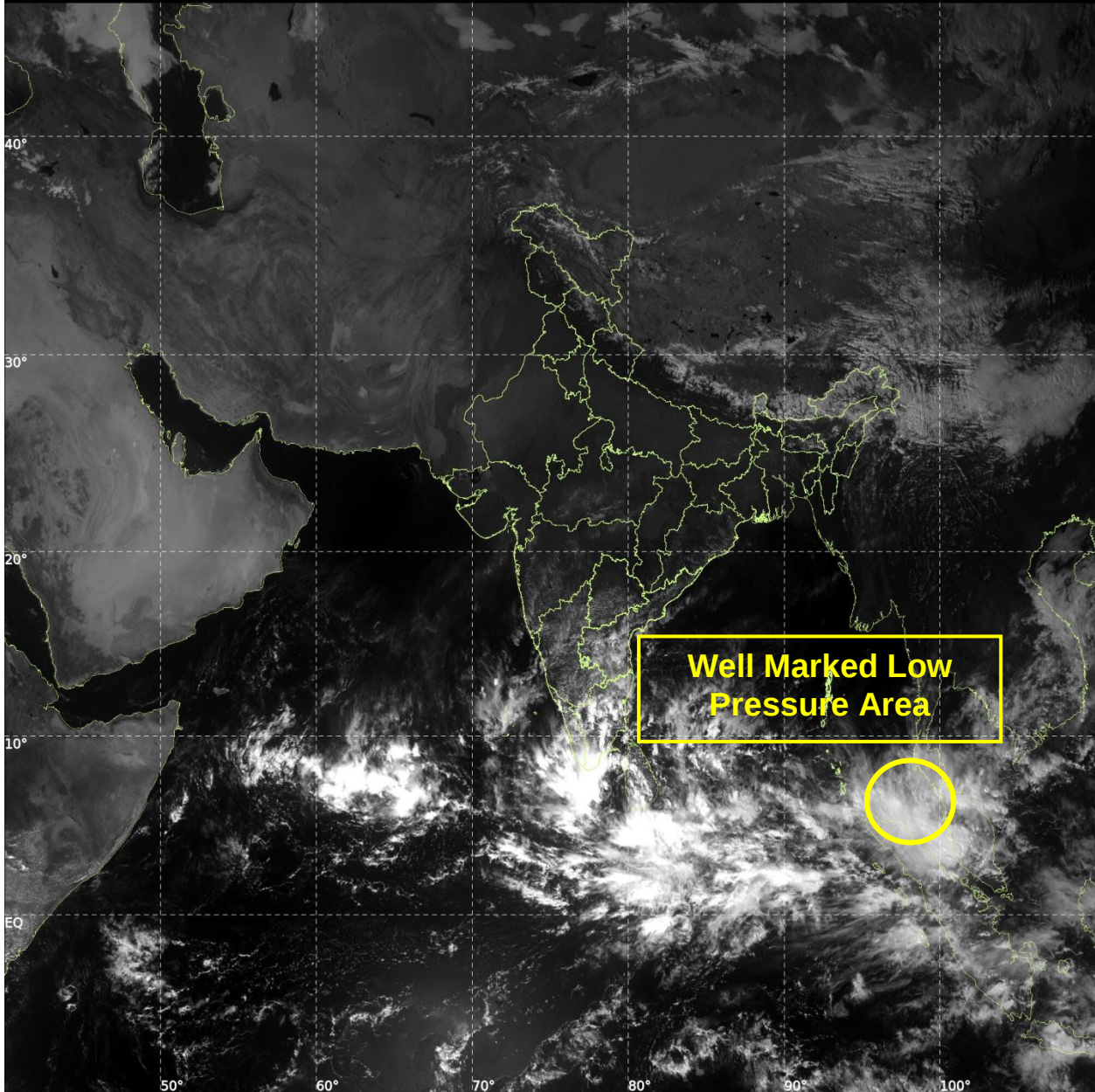
(M. Sharma)
Scientist-E



INSAT-3DS IMG, Visible Count @ 0.65 μm
GMT:23-11-2025/(0800-0827) IST:23-11-2025/(1330-1357)
LIC MERCATOR (LINEAR STRETCH: 0.5%)

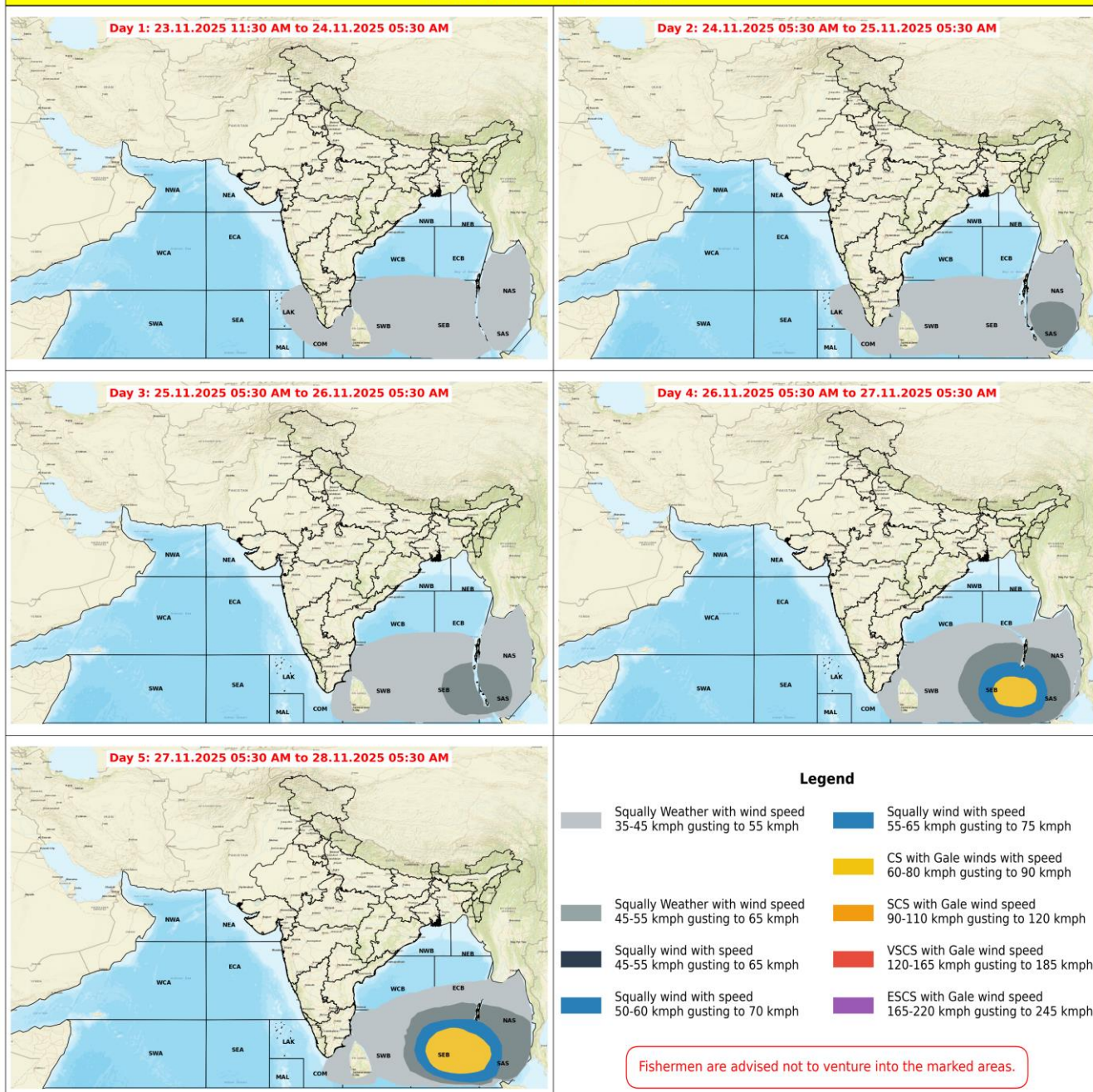
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Fishermen Warning Graphics



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