



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 20.10.2026

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 20.10.2026 BASED ON 0300 UTC OF 20.10.2026.

BAY OF BENGAL:

Yesterday's upper air cyclonic circulation over Southwest Bay of Bengal and adjoining Tamil Nadu coast extending upto 5.8 km above mean sea level persisted over the same region at 0300 UTC of today, the 20th October, 2026. Under its influence a low pressure area is likely to form over the same region during next 24 hours.

Yesterday's upper air cyclonic circulation over Gulf of Thailand & neighbourhood lay over Gulf of Thailand and adjoining Thailand & Myanmar and extended upto 4.5 km above mean sea level at 0300 UTC of today, 20th October. It is likely to emerge into north Andaman Sea by tomorrow, 21st October morning. Thereafter it will move west-north-westwards and under its influence a low-pressure area is likely to form over Southeast and adjoining East-central Bay of Bengal around 23rd October, 2026. Then it is likely to move northwestwards and intensify further.

Scattered to broken low and medium clouds with embedded intense to very intense convection over Bay of Bengal and Andaman Sea. Scattered to broken, low and medium clouds with embedded intense to very intense convection lay over the 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
NIL	NIL	NIL	NIL	NIL	LOW	MOD

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

ARABIAN SEA:

Yesterday's well marked low pressure area over southwest Arabian moved west-northwestwards and lay over the same region at 0300 UTC of today, the 20th October, 2026. The associated cyclonic circulation extends upto 7.6km above mean sea level. It is very likely to continue to move west-northwestwards maintaining its intensity of well marked low pressure area during next 12 hours. Thereafter, it is likely to continue to move further west-northwestwards as a low pressure area till 21st and then west-southwestwards towards Somalia coast on 22nd October.

Scattered to broken low and medium clouds with embedded intense to very intense convection over south & west central Arabian Sea. Scattered low and medium clouds with embedded

moderate to intense convection over east central Arabian Sea, Lakshadweep Island Area, Maldives & Comorin Area.

Vortex over south-west Arabian Sea & neighbourhood centered within half a degree of 8.4 N / 59.4 E. Intensity T1.0. Associated scattered to broken low and medium clouds with embedded intense to very intense convection over westcentral & south Arabian Sea and Equatorial Indian Ocean (minimum cloud top temperature minus 70-90 degree celsius)

At 0300 UTC, the associated maximum sustained wind speed is 15 kt gusting to 25 kt and estimated central pressure is 1009 hPa.

Under its influence, squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over southwest Arabian Sea till 22nd Oct., along & off Socotra Islands during 20th to 21st Oct and Somalia coast during 21st & 22nd Oct.

Sea condition is likely to be rough to very rough over southwest Arabian Sea till 22nd Oct, around Socotra Island during 20th & 21st Oct. and along & off Somalia coast during 21st & 22nd Oct.

Fishermen are advised not to venture into southwest Arabian Sea till 22nd Oct, around Socotra Island during 20th & 21st Oct. and along & off Somalia coast during 21st & 22nd Oct.

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NIL	NIL	NIL	NIL	NIL	NIL	NIL

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Remarks –

M.J.O. Index:

The guidance from various numerical models indicate that the Madden Julian Oscillation (MJO) is Currently, in Phase 3 with amplitude close to 1. It is likely to continue in same phase during next 7 days. Thus, MJO is favorable for enhancement of convective activity and cyclogenesis over the North Indian Ocean (NIO) including the Bay of Bengal (BoB) and the Arabian Sea (AS) during next 7 days.

Equatorial waves guidance:

The guidance from the NCICS model indicates the prevalence of westerly wind anomaly (2-3 mps) alongwith Equatorial Rossby Wave (ERW) over East Equatorial Indian Ocean (EEIO) and adjoining south BoB & easterly wind anomaly (5-7mps) alongwith Kelvin Wave (KW) over north BoB during next 3 days. Thereafter during 22nd – 27thOct., the model is indicating westerly wind anomaly (7-9mps) along with occurrence of ERW, & MJO wave over south BoB and easterly wind anomaly (5-7 mps) over north BoB. These features indicate a favorable environment for cyclogenesis over the south BoB during 22nd-27thOct.

Westerly wind anomaly (3-5 mps) alongwith MJO and over southwest AS & adjoining EIO and easterly wind anomaly to its north till 24th Oct are supporting maintenance of intensity of well marked low pressure area/ associated cyclonic circulation over southwest AS. However, over the southeast AS, during 22nd to 27th, the model is indicating only westerly wind anomaly (3-5 mps) alongwith MJO & ERW. Thus, over the southeast AS, equatorial waves may not support further cyclogenesis during 22nd – 27th Oct.

Thermodynamic features:

The Sea surface temperature is around 30°C over the system area and is slightly less towards Somalia coast around 29°C. The ocean heat content is around 60-80 KJ/cm² over southwest AS.

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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The total precipitable imagery indicates warm moist air incursion into the system area. The positive low level vorticity is around $50-60 \times 10^{-6} \text{ s}^{-1}$ over the system area. Low level convergence is around $10 \times 10^{-6} \text{ s}^{-1}$ to the west of system centre and upper level divergence is the same during past 24 hours and is around $20 \times 10^{-6} \text{ s}^{-1}$ to the northwest of system centre. Mid-shear is anticyclonic and moderate (15 kt-20 kt) over system area and along the expected path.

Model Guidance:

Most of the models are indicating the well marked low pressure area over southwest AS to move west-northwestwards till 21st and then west-southwestwards on 2nd October towards Somalia coast.

Further there is also a good consensus among various models wrt formation of low pressure area over southeast & adjoining eastcentral BoB around 23rd October. It is also indicated to move northwestwards and intensify further. Low to moderate probability of cyclogenesis (formation of depression) is assigned over Bay of Bengal.

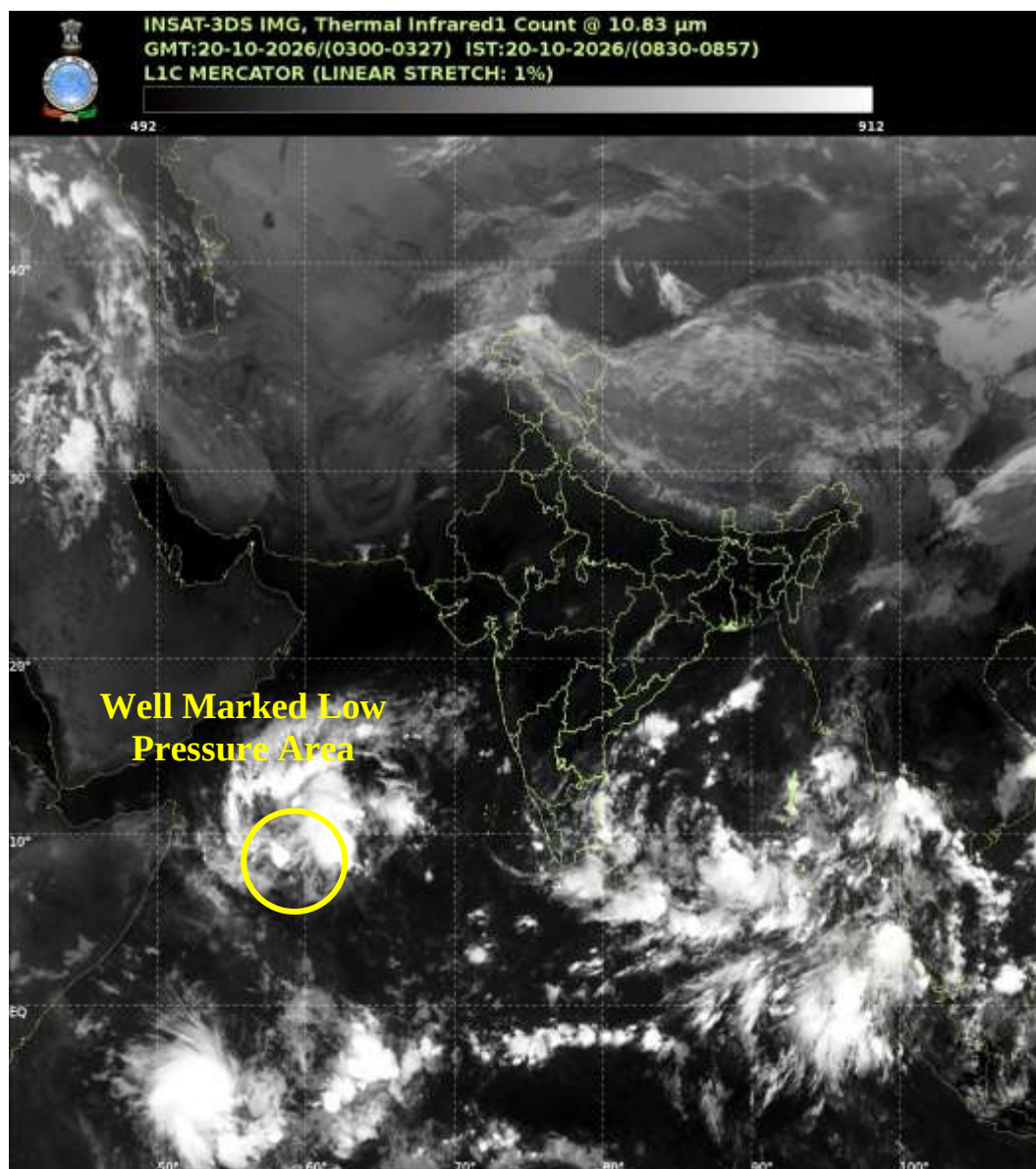
Confidence Level in estimation of following parameters wrt Well Marked Low Pressure Area over southwest Arabian Sea:

- (a) Current location and intensity: Moderate
- (b) Forecast Track: Moderate
- (c) Forecast intensity: Moderate

Confidence Level in estimation of following parameters wrt likely Low Pressure Area over southeast & adjoining eastcentral Bay of Bengal:

- (a) Forecast location and intensity: Moderate
- (b) Forecast Track: Moderate
- (c) Forecast intensity: Moderate

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WML: Well marked Low Pressure Area