





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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 23.05.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0700 UTC OF 23.05.2025 BASED ON 0300 UTC OF 23.05.2025.

BAY OF BENGAL:

A low-pressure area is likely to form over westcentral and adjoining north Bay of Bengal around 27th May, 2025. It is likely to become more marked during subsequent 2 days.

Scattered low and medium clouds with embedded intense to very intense convection lay over north adjoining central Bay of Bengal & Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over southeast Bay of Bengal.

*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:									
	24	24-48	48-72	72-96	96-120	120-144	144-168		
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS		
	NIL	NIL	NIL	NIL	NIL	LOW	LOW		

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

ARABIAN SEA:

The low-pressure area over Eastcentral Arabian Sea off south Konkan-Goa coasts lay as a wellmarked low-pressure area over Eastcentral Arabian Sea off south Konkan coast at 0000 UTC and persisted over same region at 0300 UTC of today, the 23rd May 2025. It is likely to move nearly northwards and intensify further into a depression during next 24 hours.

Vortex over east-central Arabian Sea off south Konkan coast & neighbourhood centered within half a degree of 17.2N/72.5E with intensity T1.0. Associated scattered to broken low and medium clouds with embedded intense to very intense convection over eastcentral Arabian Sea & Konkan adjoining Madhya Maharashtra, Goa. Minimum cloud top temperature -60°C to -80°C.

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over south & central Arabian Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over Lakshadweep Islands, north Maldives & Comorin area.

*PROBABILITY OF CYCLOGENESIS	(FORMATION OF DEPRESSION) DURING NEXT 168 HRS:
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24	24-48	48-72	72-96	96-120	120-144	144-168
HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
MOD	MOD	MOD	-	-	-	-

*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/ESCAPPaneIMembercountries.VisitrespectiveNationalwebsitesforCountryspecificBulletins

REMARKS: The Madden Julian Oscillation (MJO) index is in phase 4 with amplitude close to 1. It will continue in same phase during next 3 days. Thereafter, it will move across phases 5 and 6 for subsequent 4 to 5 days. Sea Surface Temperature is 30°C - 32°C over entire BoB and Arabian Sea.

(A) Arabian Sea:

Currently, the well-marked low-pressure area over eastcentral Arabian Sea off South Konkan-Goa coasts is in a moderately favorable environment with low to moderate vertical wind shear, poleward outflow and warm sea conditions. Further prevalence of equatorial waves including Rossby wave and Kelvin wave with strong westerly wind anomaly over south Arabian Sea (5 to 7 mps) and easterly wind anomaly over eastcentral Arabian Sea (5 to 7 mps) is supportive for maintenance of intensity of the system. However, land interactions are slowing down the development of the system. Compared to previous runs, latest model guidance has withdrawn likely development of depression over the AS and indicated nearly northeastwards movement. The system is under continuous watch for further development. The potential for development of depression during next 24 hours is thus maintained as moderate.

(B) Bay of Bengal:

MJO is in favorable phase (4 and 5) during next 7 days. The sea surface temperature is 30-32°C. the NCICS, CFS model indicates prevalence of westerly wind anomaly (1-3 mps) over South Andaman Sea and easterly wind anomaly (3-5 mps) over major parts of BoB during next 2-3 days. Thereafter, during subsequent 3 days, the model is indicating prevalence of westerly wind anomaly (5-7 mps) over South BoB along with MJO & ERW and easterly wind anomaly (3-5 mps) along with KW over north BoB. These features Thus, over the north BoB, though there could be development of a low-pressure area, the equatorial waves are not likely to favor further intensification. Further vertical wind shear is also moderate to high over central and north BoB. These features indicate a moderately favorable environment for the formation of low-pressure area/ depression over the central & adjoining north BoB around 27th May. However, there is large divergence among various models with respect to genesis and intensification of the system. ECMWF and IMD GFS are not capturing this system. NCEP GFS is indicating depression and above intensity system. The system is under continuous watch.



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