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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 24.05.2025

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 1500 UTC OF 24.05.2025 BASED ON 1200 UTC OF 24.05.2025.

ARABIAN SEA:

Sub: Depression over Madhya Maharashtra

The Depression over south Konkan coast moved nearly eastwards with a speed of 18 kmph during past 6 hours, crossed south Konkan coast near Ratnagiri between 0600 and 0700 UTC and lay centred at 1200 UTC of today, the 24th May 2025 over Madhya Maharashtra near latitude 17.1° N & longitude 74.3° E, about 40 km northwest of Sangli (Maharashtra, 43158), 100 km east of Ratnagiri (Maharashtra) and 140 km east-southwest of Satara (Maharashtra, 43113).

It is very likely to continue to move nearly eastwards across south Madhya Maharashtra, Marathwada & North Interior Karnataka and weaken gradually into a well-marked low pressure area during next 12 hours.

As per INSAT 3D (S) imagery at 1200 UTC, the system is centered over south Konkan near latitude 17.0^0N/73.7^0E. The system is over land. The clouds are organized in shear pattern. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over Konkan and adjoining Eastcentral Arabian Sea, Goa, Karnataka and South Gujarat coasts, east Gujarat region and west Madhya Pradesh. The cloud top temperature (CTT) is -60^0C to -90^0C. Scattered low and medium clouds with embedded moderate to intense convection lay over Gulf of Cambay and Maldives area.

The associated estimated central pressure is 998 hPa and the associated maximum sustained wind speed is 20 kt gusting to 30 kt.

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

***PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEX T 168 HRS:**

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°C to -40°C, (c) Intense: CTT: - 41°C to -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% This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins

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

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

"-"Not applicable

Remarks:

The depression has moved inland during 0600-0700 UTC. Latest total precipitable imagery indicates decrease in supply of warm moist air into the system area from southeast Arabian Sea. The positive low level vorticity is the same (70-80 $X10^{-5}s^{-1}$) at 850 hPa level to the southwest of system centre and is vertically extending upto 500 hPa. The low level convergence is the same ($20X10^{-5}s^{-1}$) to the southwest of system centre and another zone of negative convergence is seen the west of system centre ($-10X10^{-5}s^{-1}$ s^{-1}). The upper level divergence has decreased during past 6 hours and is $20X10^{-5}s^{-1}$ to the southwest of system centre. However, still poleward and equatorward outflow is seen in the upper levels. Mid shear is moderate (20 kt) over the system area and along the predicted path. The surface friction, decrease in moisture supply and moderately favourable wind shear would lead to gradual weakening of the system. The system would continue to be steered eastwards under the influence of westerly wind flow in lower & mid tropospheric levels and approaching trough in westerly.

Over the Bay of Bengal, the conditions are favourable for development of low pressure area with warm sea surface temperature (30-32^{0}C), favourable Madden Julian Oscillation (phase 4&5 during next 7 days), strong westerly wind anomaly (5-7 mps) over the south Bay of Bengal and low to moderate vertical wind shear over north and adjoining central Bay of Bengal.

Some of the models are suggesting that, after landfall the existing depression over eastcentral Arabian Sea would move across Maharashtra, Telangana & Andhra Pradesh and emerge into westcentral & northwest Bay of Bengal around 27th May. It would lead to the formation of low pressure area over same region. Gradually it is predicted to move north northwestwards and may lead to enhancement of monsoon current over the Bay of Bengal.

THIS IS LAST UPDATE IN ASSOCIATION WITH THIS SYSTEM. NEXT BULLETIN WILL BE ISSUED AT 0600 UTC BASED ON 0300 UTC OF 25TH MAY, 2025.

(Monica Sharma)
Sc.D, RSMC, NEW DELHI

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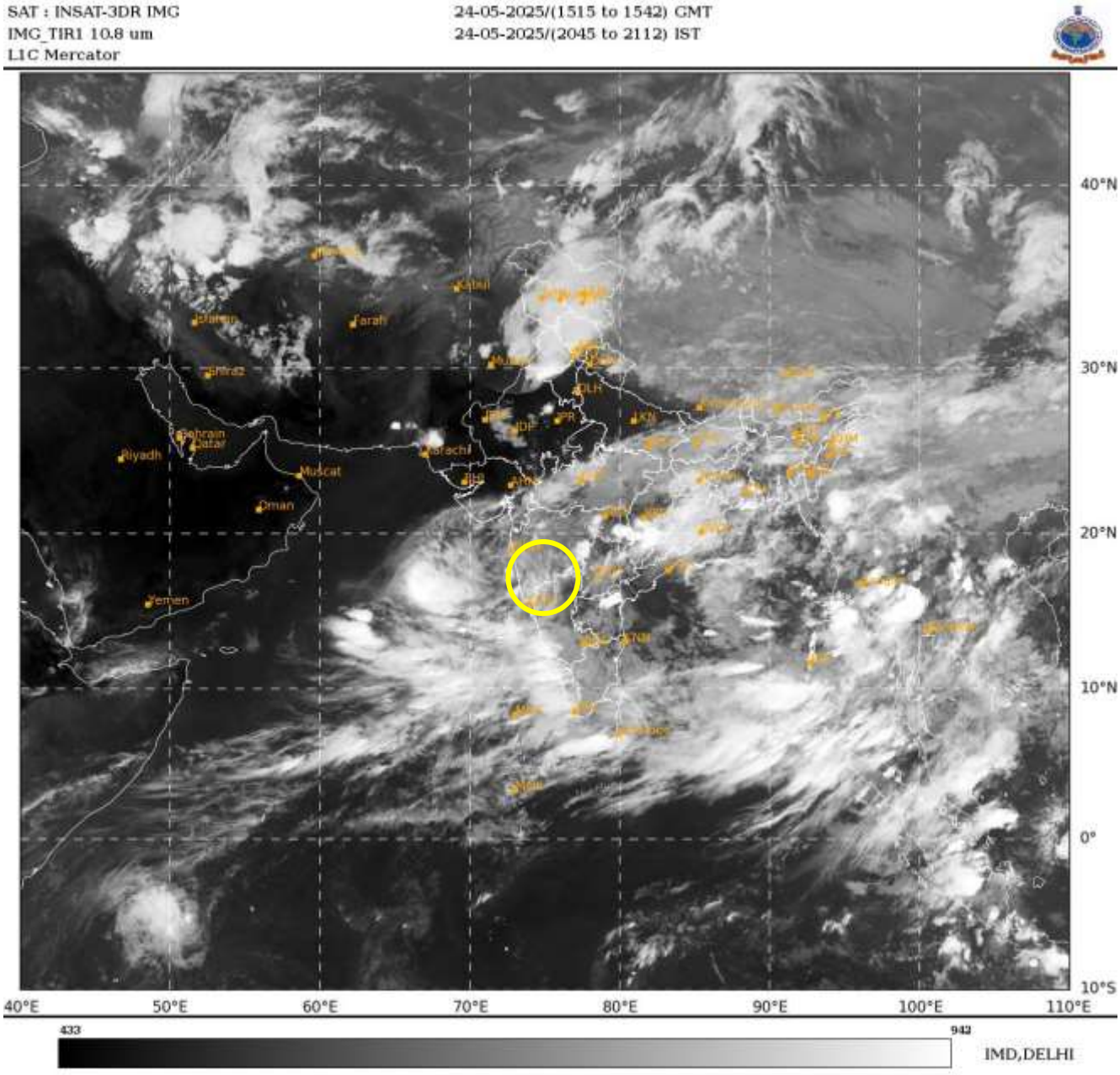

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Fishermen Warning Graphics

Squally Weather with wind speed 35-50 kmph gusting to 60 kmph
Squally weather with wind speed 45-55 kmph gusting to 65 kmph
Squally wind with speed 45-55 kmph gusting to 65 kmph

Fishermen are advised not to venture into the marked areas.

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