



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 06.09.2025

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 06.09.2025 BASED ON 0300 UTC OF 06.09.2025.

LAND REGION:

Yesterday's well-marked low-pressure area over central parts of West Madhya Pradesh and adjoining East Rajasthan moved west-northwestwards and lay over central parts of south Rajasthan at 0300 UTC of today, the 06th September, 2025. The associated cyclonic circulation extended upto 9.6 km above mean sea level tilting southwards with height.

It is likely to continue to move west-northwestwards and concentrate into a depression over South Rajasthan & adjoining North Gujarat during next 24 hours.

Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over Southeast Rajasthan, Southwest Madhya Pradesh, West Vidarbha, North Madhya Maharashtra, North Konkan, Gujarat, Gulf of Kutch & Gulf of Cambay (minimum cloud to temperature - 70°C to -90°C).

*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	HIGH	NIL	NIL	NIL	NIL

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

BAY OF BENGAL:

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over southeast adjoining eastcentral Bay of Bengal and south Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over rest of Bay of Bengal and north Andaman Sea.

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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**

ARABIAN SEA:

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over northeast Arabian Sea off Gujarat coast, Gulf of Kutch & Gulf of Cambay. Scattered low and medium clouds with embedded isolated weak to moderate convection lay over rest of Arabian Sea, Lakshadweep Islands area, Maldives & 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:

As per guidance from CIMSS, the low level vorticity is about $90-100 \times 10^{-6} \text{ s}^{-1}$ over central parts of south Rajasthan extending upto 500 hPa level. The low level convergence is around $10 \times 10^{-6} \text{ s}^{-1}$ to the west of system centre. The upper level divergence is around $20 \times 10^{-6} \text{ s}^{-1}$ near the system centre. Mid-level vertical wind shear (VWS) of horizontal wind is moderate (15 kt) over the system centre. Moderate wind shear with low value of low level convergence and high value of upper level divergence will support upward motion and hence intensification of the system. Thus, existing environmental conditions are indicating a favorable environment for further intensification of the well-marked low-pressure area into a depression.

The guidance from various numerical models indicates that Madden Julian Oscillation (MJO) is currently in phase 2 with amplitude close to 1. It is likely to continue in same phase with gradually decreasing trend in amplitude till first half of week 2. Thereafter it will move rapidly across phases 8 & 1. Thus, MJO is likely to support enhancement of convective activity over the Arabian Sea (AS) region till first half of week 2. As the well marked low-pressure area is expected to move towards South Rajasthan and adjoining North Gujarat during next 24 hours, the MJO will be favorable for intensification of the well-marked low-pressure area into a depression.

The guidance from the NCICS CFS model indicates, westerly wind anomaly (3-5 mps) over south AS and equatorial Indian Ocean (EIO) & adjoining south Bay of Bengal (BoB) along with easterly wind anomaly (3- 5mps) over north AS, central parts of India and central BoB till first half of week 2. The model is also indicating weak westerly wind anomaly (1-3 mps) over central parts of India along with weak easterly wind anomaly (1-3 mps) over Indo Gangetic plains during first half of week 1. Thus, equatorial waves are likely to support the convective activity associated with the low-pressure area over central India and may also support intensification of the existing system during its west northwestwards movement towards south Rajasthan and adjoining Gujarat during 6th-8th September, 2025.

Most of the numerical models (IMD GFS, NCEP GFS, BFS, ECMWF, ECAI, NCUM, NEPS) are indicating nearly westwards movement and further intensification of existing well-marked low-pressure area over central parts of south Rajasthan into a depression around 0000 UTC of 7th September.

Considering all the above, the Well-marked low-pressure area over central parts of south Rajasthan is very likely to continue to move further west-northwestwards and concentrate into a depression over South Rajasthan and adjoining North Gujarat by 0000 UTC of 7th September, 2025.

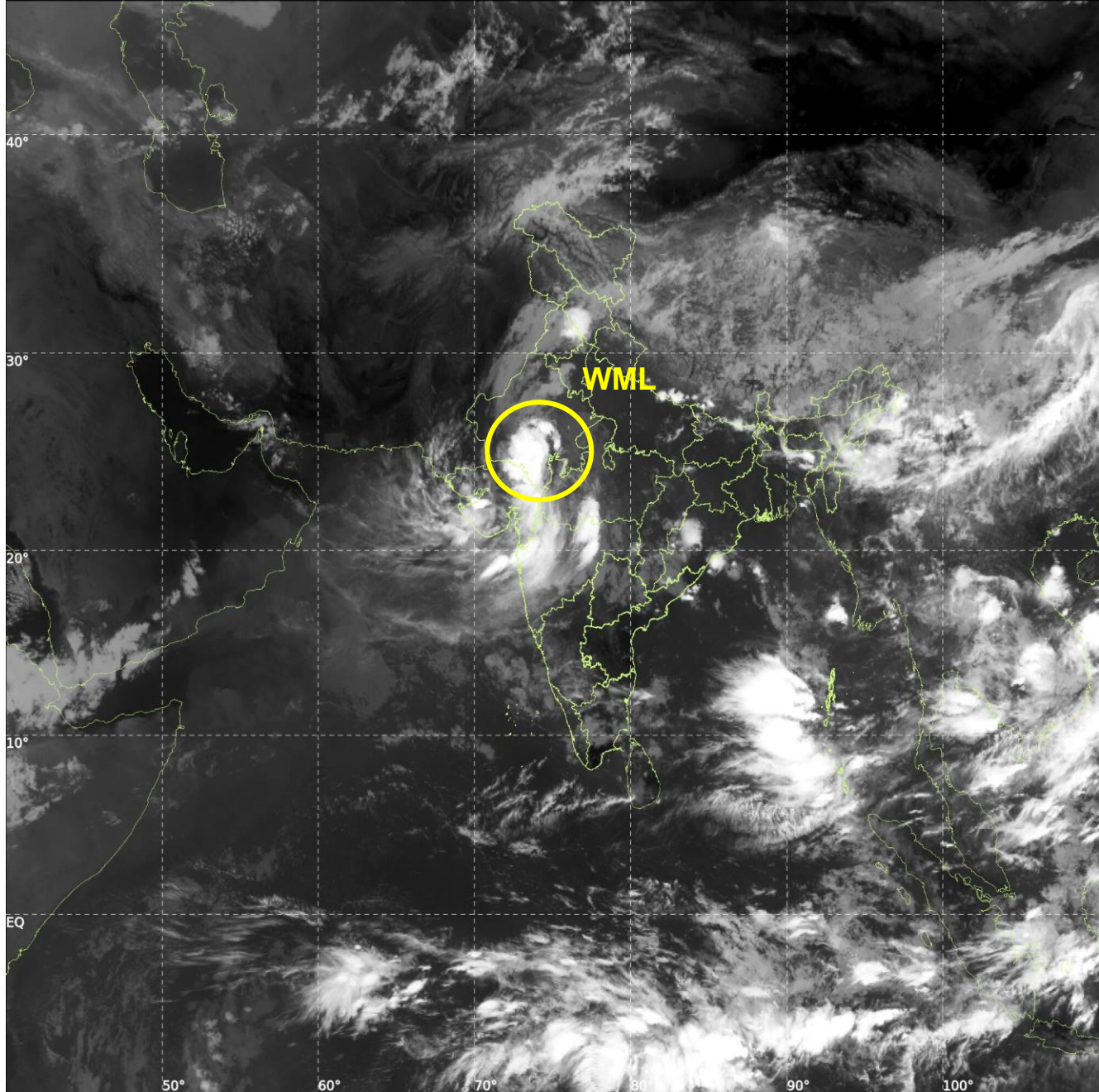
Legends: MJO: Madden Julian Oscillation, NCICS: North Carolina Institute for Climate Studies (for Equatorial waves Forecast), IMD GFS: India Meteorological Department Global Forecast System, NCUM: National Centre for Medium-Range Weather Forecasting Centre (NCMRWF) Unified Model, ECMWF: European Centre for Medium-Range Weather Forecasting, ECAIFS: ECMWF Artificial Intelligence Forecasting System, BFS: Bharat Forecast System, NEPS: NCUM ensemble prediction system



INSAT-3DS IMG, Thermal Infrared1 Count @ 10.83 μm
GMT:06-09-2025/(0300-0327) IST:06-09-2025/(0830-0857)
L1C MERCATOR (LINEAR STRETCH: 1%)

442

905



WML: Well-marked low-pressure area

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.VisitrespectiveNationalwebsitesforCountryspecificBulletins