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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 05.09.2025
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 05.09.2025 BASED ON 0300 UTC OF 05.09.2025.

LAND REGION:

Yesterday's low-pressure area over north Chhattisgarh and neighbourhood moved west-northwestwards and lay as a Well-marked low pressure area over central parts of West Madhya Pradesh and adjoining East Rajasthan at 0300 UTC of today the 5th September, 2025.

It 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.

Associated scattered to broken low and medium clouds with embedded moderate to intense convection lay over northwest Madhya Pradesh (minimum cloud to temperature minus 70-90 ^{0}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
NIL	LOW	MOD	-	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 over central and south Bay of Bengal and south Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection over north Bay of Bengal and north 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	NIL	NIL

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

ARABIAN SEA:

Scattered Low and Medium Clouds with embedded Isolated moderate to intense convection lay over east Arabian Sea and Lakshadweep Islands 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

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

REMARKS:

Existing environmental conditions also indicate a favourable environment for further intensification of the well marked low pressure area.

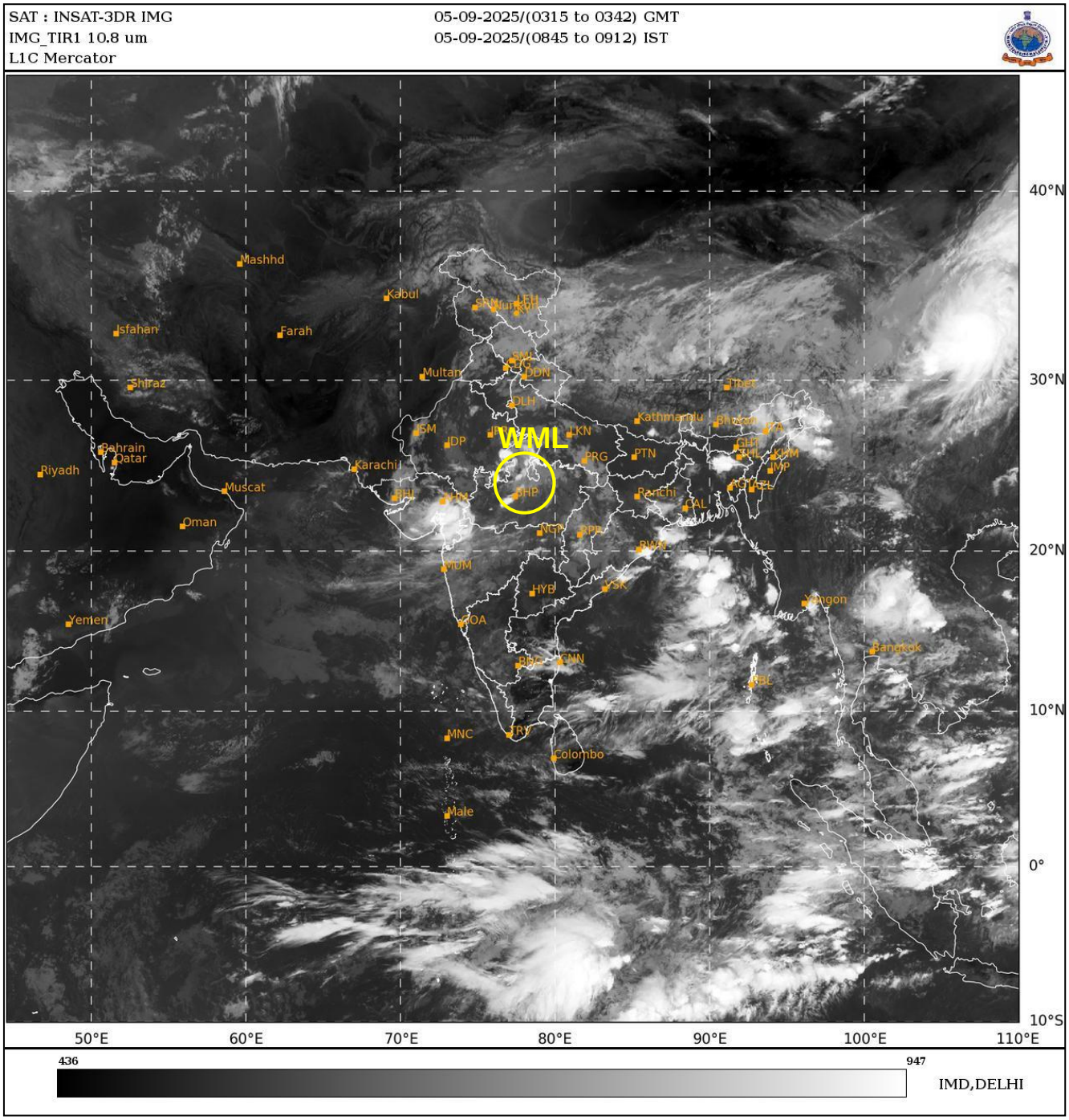
The guidance from various numerical models indicates that Madden Julian Oscillation (MJO) is currently in phase 2 with amplitude close to 1. It is likely to continue in same phase with gradually decreasing trend in amplitude till first half of week 2. Thereafter it will move rapidly across phases 8 & 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 low pressure area/ cyclonic circulation is expected to move towards Gujarat during next 48 hours, the MJO will be favourable for maintaining/ strengthening the existing low pressure area over Gujarat.

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 5th -8th September, 2025.

Most of the numerical models (IMD GFS, NCEP GFS, BFS, ECMWF, ECAI, NCUM, NEPS) are indicating west-northwestwards movement and further intensification of existing well marked low pressure central parts of West Madhya Pradesh and adjoining East Rajasthan into a depression around 0000 UTC of 7th September.

Considering all the above, the Well marked low pressure area over central parts of West Madhya Pradesh and adjoining East 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



WML: WELL MARKED LOW PRESSURE AREA

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