



The Madden Julian Oscillation (MJO) index lies currently entering into Phase 2 with amplitude more than 1. It will remain in Phase 2 with gradual reduction in amplitude during the initial half of week 1, enter into Phase 3 with amplitude less than 1 during second half of week 1 and further propagate eastwards into Phases 4 & 5 with amplitude much less than 1 during week 2. Thus, the phase of MJO will support convective activity over the north Indian Ocean during week 1 and week 2.

Most of the numerical models including IMD GFS, GEFS, NCEP GFS, ECMWF, NEPS & NCUM are not indicating any cyclogenesis over the region during weeks 1 and 2. The Genesis Potential Parameter (GPP) based on IMD GFS is not indicating any potential zone for cyclogenesis during week-1. The GPP based on CGEPS (MME) is also not indicating any cyclogenesis during weeks-1 & 2.

**Considering the above, it may be concluded that there is no cyclogenesis likely over the north Indian Ocean during weeks 1 & 2.** There is a well marked low pressure area located inland (southwest Jharkhand & neighbourhood) as on today. It is likely to move westwards across central India and weaken gradually during the middle of week-1.

**Verification of forecast issued during last two weeks:**

The forecast issued on 13<sup>th</sup> August for week 2 (21.08.2020-27.08.2020) and the forecast issued on 20<sup>th</sup> August for week 1 (21.08.2020-27.08.2020) stated NIL probability for the period.

Thus non occurrence of cyclogenesis over North Indian Ocean was correctly predicted two weeks in advance.