



The Madden Julian Oscillation (MJO) index is currently in Phase 3 with amplitude less than 1. It will remain in Phase 3 with slight enhancement in amplitude during week 1. It is likely to move into Phase 4 with amplitude less than 1 from the initial part of week 2 and continue in the same Phase for the rest of the forecast period. 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, ECMWF, NEPS & NCUM are not indicating any cyclogenesis over the region during week 1 as well as NCEP GFS during weeks 1 & 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. However, majority of the models indicate chances of formation of a low pressure area over west central Bay of Bengal off Andhra Pradesh coast during the first half of week-1 and another low pressure area over west central Bay of Bengal during the middle of week-2.

**Considering the above, it may be concluded that there is no cyclogenesis likely over the north Indian Ocean during weeks 1 & 2.**

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

The forecast issued on 27<sup>th</sup> August for week 2 (04.09.2020-10.09.2020) and the forecast issued on 03<sup>rd</sup> September for week 1 (04.09.2020-10.09.2020) stated NIL probability for the period.

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

**Next update: 17.09.2020**