



The Madden Julian Oscillation (MJO) index lies currently in phase 6 with amplitude more than 1. It will continue in same phase till 10th April. Thereafter, it will move into phase 7 with amplitude more than 1 and remain there till the end of week 1 and further into phase 8 from the beginning of week 2 maintaining the amplitude. Thus, the phase of MJO will not support enhancement of convective activity over North Indian Ocean.

Most of the numerical models including IMD GFS, GEFS, ECMWF, NCEP GFS, NEPS, NCUM & NEPS are not indicating any cyclogenesis during their respective forecast period. CGEPS (MME) indicates a slight probability of 20-30 % over southeast Bay of Bengal towards the middle of week 2. The Genesis Potential Parameter (GPP) based on IMD GFS is not indicating any potential zone for cyclogenesis over the north Indian Ocean during the forecast period.

Considering all the above, it may be concluded that **no cyclogenesis** is predicted over the **north Indian Ocean during next two weeks**.

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

The forecast issued on 25<sup>th</sup> March for week 2 and the forecast issued on 01<sup>st</sup> April for week 1 for the period (02.04.2021-08.04.2021) indicated the well marked low pressure area is likely to concentrate into a depression with low probability by 2nd April and gradually weaken thereafter. It would move north-eastwards towards Myanmar coast.

The low pressure area concentrated into a depression over north Andaman Sea & neighbourhood on 2<sup>nd</sup> April and weakened on 4<sup>th</sup> April over north Andaman Sea and adjoining south Myanmar coast. Hence the genesis could be predicted correctly 2 weeks in advance.

**Next update: 15.04.2021**