



The Madden Julian Oscillation (MJO) index is currently in Phase 6 with amplitude less than 1. It is likely to remain in the same Phase with amplitude remaining less than 1 during first half of week 1. Thereafter, it will move to phase 7 with amplitude gradually becoming more than 1 during later part of week 1. It will then move to phase 8 with amplitude remaining more than 1 during week 2. Hence the MJO will not support convective activity over the North Indian Ocean (NIO) including the Bay of Bengal & the Arabian Sea during the forecast period.

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

**Considering all the above, it is concluded that no cyclogenesis is expected over the NIO during next two weeks.**

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

The forecast issued on 11<sup>th</sup> February for week 2 and the forecast issued on 18<sup>th</sup> February for week 1 for the period (19.02.2021-25.02.2021) indicated no cyclogenesis over the NIO during the period. No cyclogenesis occurred during the period. **Hence no cyclogenesis could be correctly predicted 2 weeks in advance.**

**Next update: 04.03.2021**