



The Madden Julian Oscillation (MJO) index currently lies in Phase 7 (West Pacific) with amplitude more than 1. It is likely to continue in same phase during first half of week1 with amplitude becoming less than 1. Thereafter, it will move to phase 6 during later part of week 1 with amplitude becoming more than 1. Subsequently, it will move back to phase 7 with amplitude more than 1. Based on CFS forecast, weak westerly winds (1-3 mps) are likely to prevail over eastcentral & adjoining southeast Arabian Sea (AS), southern Peninsular India and north Bay of Bengal (BoB) during week 1. Weak easterlies are likely to prevail over Andaman Sea and adjoining eastcentral BoB during next 2 weeks. Equatorial Rossby (ER) Waves are likely to prevail over north BoB during week 1. Kelvin waves (KW) are likely to prevail over southeast AS, Southern Peninsular India and adjoining southeast BoB during week 2. Various broad scale features including MJO, westerlies, easterlies, ER waves and KW are not in phase with each other over the NIO region and hence not conducive for enhancement of convective activity over the region during entire forecast period.

The forecast fields of various numerical models including IMD GFS, IMD GPP, NCEP GFS, GEFS, NCUM, NEPS, ECMWF, ECMWF ensemble and CFSV2, are not indicating any cyclogenesis over the north Indian Ocean (NIO) including the BoB and the AS during next two weeks.

In view of the above broad scale features and model guidance, no cyclogenesis is likely over the NIO during the ensuing 2 weeks.

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

The forecast issued on 30<sup>th</sup> December for week 2 (07.01.2022-13.01.2022) and 06<sup>th</sup> January for week 1 (07.01.2022-13.01.2022) indicated no cyclogenesis over the region during the forecast period. Hence non-occurrence of cyclogenesis was correctly captured in the two weeks forecast.