



The Madden Julian Oscillation (MJO) index is currently in Phase 5 with amplitude slightly greater than 1. It will remain in Phase 5 with amplitude remaining greater than 1 during week 1. Thereafter, it will move to phase 6 with amplitude gradually decreasing. Thus, the phase of MJO will support convective activity over the north Bay of Bengal (BoB) during week 1.

Most of the numerical models including IMD GFS, GEFS, ECMWF, NCEP GFS, NEPS & NCUM are not indicating any cyclogenesis over the region during weeks 1 & 2. However, most of the models are indicating development of a low pressure area over north BoB towards the later part of week 1 and beginning 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. The GPP based on CGEPS (MME) is indicating 20-30% probability of cyclogenesis over north BoB during later part of week-1.

Considering all the above, it may be concluded that there is no probability of cyclogenesis (formation of depression) during the period. However, a low pressure area may develop over north BoB in the later part of week 1 and beginning of week 2.

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

The forecast issued on 10<sup>th</sup> September for week 2 (18.09.2020-24.09.2020) and the forecast issued on 17<sup>th</sup> September for week 1 (18.09.2020-24.09.2020) stated NIL probability of cyclogenesis during the period. Thus non occurrence of cyclogenesis over the North Indian Ocean was correctly predicted two weeks in advance.