



The Madden Julian Oscillation (MJO) index lies currently in phase 8 with amplitude more than 1. It will enter in phase 1 from the beginning of week 1, further propagate eastwards with gradual reduction in amplitude and enter in phase 2 with amplitude close to 1 during week 2. Thus, the phase of MJO would start to support enhancement of convective activity over the Arabian Sea during the later part of week 2.

Most of the numerical models including IMD GFS, GEFS, ECMWF, NEPS, NCUM & NEPS are not indicating any cyclogenesis during their respective forecast periods. CGEPS (MME) indicate a slight probability of 30-40% over south Andaman Sea off Sumatra coast during the first half of week1 and 10-20 % probability over south Andaman Sea and southeast bay of Bengal during 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. NCEP GFS indicates that a remnant low pressure system from south China Sea could emerge into north Andaman Sea and the formation of a Low pressure area over north Andaman Sea off Arakan coast & adjoining Gulf of Martaban towards the end of week 2.

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 15th April for week 2 and the forecast issued on 22nd April for week 1 for the period (23.04.2021-29.04.2021) indicated no cyclogenesis probability. No Low pressure system developed over north Indian Ocean during this period, which could be correctly predicted two weeks in advance.