



The Madden Julian Oscillation (MJO) index lies currently in Phase 4 with amplitude less than 1. It is likely to remain in Phase 4 during week 1 & 2. The amplitude become more than 1 from latter part of week 1 and again become less than 1 from latter part of week 2. Thus, the phase of MJO will support enhancement of convective activity over the north Indian Ocean during weeks 1 and 2.

Most of the numerical models including IMD GFS, GEFS are not indicating any cyclogenesis over the region during week 1. NCEP GFS, ECMWF, NEPS, NCUM and IMD GFS based GPP are indicating formation of a low pressure area over north Bay of Bengal towards the later part of week-1 and its likely intensification over northwest bay of Bengal off Odisha coast at the end of week 1. A few of the above models also indicate likely formation of a low pressure area over northwest Bay of Bengal towards the end of week-2 as well without much intensification probability.

Considering the above, there is low probability of cyclogenesis (formation of a Depression) over northwest Bay of Bengal off Odisha coast towards the end of week-1.

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

The forecast issued on 16<sup>th</sup> July for week 2 (24.07.2020-30.07.2020) and the forecast issued on 23<sup>th</sup> July for week 1 (24.07.2020-30.07.2020) did not predict any cyclogenesis during the period.

No low pressure system developed over the north Indian Ocean during the period and thus the non-occurrence of cyclogenesis was correctly predicted 2 weeks in advance.

**Next update: 06.08.2020**