



The Madden Julian Oscillation (MJO) index lies currently in Phase 2 with amplitude more than 1. It will remain in same phase during week 1 & and will either enter phase 3 or remain in Phase 2 with amplitude remaining close to 1 during week-2. Thus MJO will support enhancement of convective activity over the North Indian Ocean (NIO) during weeks 1& 2.

Most of the models including IMD GLOBAL FORECAST SYSTEM (GFS), GLOBAL ENSEMBLE FORECASTING SYSTEM (GEFS), IITM CFS and ECMWF are not predicting any Cyclogenesis during weeks 1 & 2. The Genesis Potential Parameter (GPP) based on IMD GFS is indicating potential zone for cyclogenesis during end of week 1 and the GPP based on CGEPS (MME) is not indicating any potential zone for cyclogenesis during weeks 1 & 2.

Considering the above, no cyclogenesis is expected over North Indian Ocean during weeks 1 and 2. However, a Low pressure area likely to form over northeast Arabian Sea off south Gujarat coast during 15-17 June, probably from the remnant of the present Low pressure area, once it moves westwards across central India.

Verification of forecast issued during last two weeks:

The forecast issued on 28th May for week 2 (05.06.2020-11.06.2020), predicted Low probability of formation of depression over north BoB and the forecast issued on 04th June for week 1 (05.06.2020-11.06.2020) predicted low to moderate probability of formation of depression over north BoB during later part of week 1

A low pressure area formed over east central Bay of Bengal and neighborhood in the morning of 9th June and persists over west-central BoB as on today.

Thus occurrence of cyclogenesis over North Indian Ocean predicted two weeks in advance did not realise.

Next update: 18.06.2020