



The Index of Madden Julian Oscillation (MJO) currently lies in Phase 1 with amplitude more than 1. It is likely to propagate eastwards into Phase 2 with amplitude close to 1 during the later part of Week 1 and further into Phase 3 with reduced amplitude (less than 1) during later part of Week 2. Hence the phase of MJO is likely to favour enhancement of convection over the North Indian Ocean (NIO) during Week 2.

Southwest monsoon covered the entire north Indian Ocean last week, when it further advanced and covered the remaining parts of north Arabian Sea on 19th June. Currently the monsoon flow in general has weakened over the NIO.

Most of the numerical models including IMD GFS, NCEP GFS, GEFS, NCUM, NEPS & ECMWF are not indicating any cyclogenesis over the north Indian Ocean during their respective forecast periods. The genesis potential parameter (GPP) based on IMD GFS as well as by MME (CFSV₂) is also not indicating any potential zone for cyclogenesis over NIO during their forecast periods. However GFS and ECMWF group of models indicate gradual strengthening of monsoon Flow over the Arabian Sea basin from the beginning of Week 2.

Considering all the above, it may be concluded that no cyclogenesis likely over the north Indian Ocean during the ensuing 2 weeks.

Verification of forecast issued during last two weeks:

The forecast issued on 10th June for week 2 (18.06.2021- 24.06.2021) indicated likely formation of a low pressure area over northwest BoB, with a 'low' probability of its intensification into a Depression. The forecast issued on 17th June for week 1(18.06.2021- 24.06.2021) indicated no cyclogenesis over the north Indian Ocean but formation of short-lived low pressure area, over northwest BoB . However the forecast did not realise as there was no system formed over the region during this period.

Next update: 01.07.2021