



The Madden Julian Oscillation (MJO) index currently lies over Phase 5 and it will continue in same Phase during next 24 hours with amplitude greater than 1, with decreasing trend. Thereafter, it will move to Phase 6. The amplitude will gradually decrease becoming less than 1 from 23rd onwards. Hence, the MJO is favourable for enhancement of convective activity over Bay of Bengal (BoB) till 20th July. Thereafter, it will not support enhancement of convective activity over the BoB region during week 1 & 2. However, the convective activity may increase over the northern plains of the country during remaining days of week 1 followed by activity along the foothills.

MME-CFS model of MoES predicts cyclogenesis over north BoB during week1 with probability of 30-40%. Most of the NWP models (including IMD GFS, GEFS, NCUM, NCMRWF, NEPS) suggest formation of low pressure area over northwest BoB with no intensification and gradual movement along the axis of monsoon trough during 19th-23rd July.

Considering the above, no cyclogenesis is expected over the north Indian Ocean during next two weeks. However, the existing low pressure area will move northwestwards along the axis of monsoon trough.

Verification of forecast issued during last two weeks:

As for the forecast issued on 06 July for week 2 (13 July – 19 July 2018) and the forecast issued on 12th July for week 1 (13 July – 19 July 2018), no cyclogenesis was predicted over the north Indian Ocean. Also, there has been no cyclogenesis during the week (13 July – 19 July 2018) over the north Indian Ocean. Hence non-occurrence of cyclogenesis during 13 July – 19 July 2018 was well predicted two weeks in advance.