



The Madden Julian Oscillation (MJO) index lies currently in Phase 4 with amplitude greater than 1. It is likely to remain in Phase 4 during first half of week 1 with decreasing amplitude. Then it is likely to move into phase 8 during end of week 1 moving across phases 5, 6 and 7 with amplitude less than 1. Thereafter it is likely to move into phase 1 during second half of week 2 with amplitude more than 1. Thus, the phase and amplitude of MJO will support enhancement of convective activity over the north Indian Ocean during first half of week 1.

Most of the numerical models including IMD GFS, GEFS, ECMWF and NCEP GFS are not indicating any cyclogenesis over the region during week 1. However NEPS, NCUM and the Genesis Potential Parameter (GPP) based on IMD GFS is indicating potential zone for cyclogenesis during the beginning of week 1 and the GPP based on CGEPS (MME) is also indicating re-emergence of the present low pressure area over west-central India into north Arabian Sea and its intensification and westward movement over north Arabian Sea during the initial part of week-1.

It may be inferred that though the low pressure area is most likely to emerge into north Arabian Sea and likely to become well marked over the region for a day (ie, around 8th August), its concentration into a Depression is un-likely. Also there could be formation of another low pressure area over west-central and adjoining northwest bay of Bengal around 9th August, without any further intensification. Hence no cyclogenesis is likely during weeks 1 & 2.

Verification of forecast issued during last two weeks:

The forecast issued on 23rd July for week 2 (31.07.2020-06.08.2020) and the forecast issued on 30th July for week 1 (31.07.2020-06.08.2020) predicted low probability of cyclogenesis (formation of a Depression) over northwest Bay of Bengal off Odisha coast.

A low pressure area formed over North Bay of Bengal off West Bengal – Bangladesh coasts on 4th August. It became well marked over northwest Bay of Bengal off north Odisha- west Bengal coasts by the evening of 4th and moved inland subsequently.