India Meteorological Department
Ministry of Earth Sciences
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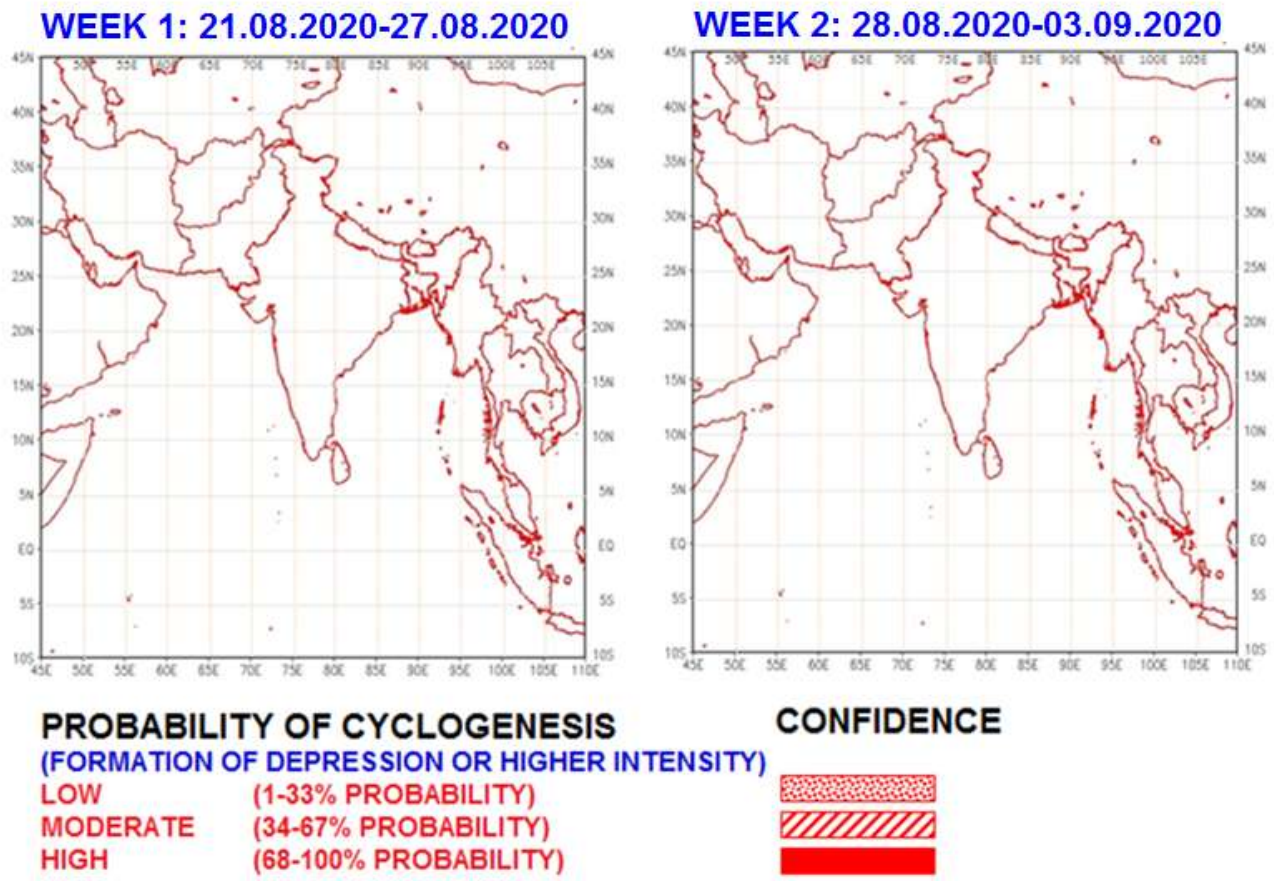
NORTH INDIAN OCEAN EXTENDED RANGE OUTLOOK FOR CYCLOGENESIS



The Madden Julian Oscillation (MJO) index lies currently in Phase 1 with amplitude more than 1 and is likely to remain in the same phase till end of week 1. It is likely to move into Phase 2 with amplitude less than 1from first half of week 2 and then to phase 3 during second half of week 2 with amplitude less than 1. Thus, the phase of MJO will support convective activity over the north Indian Ocean during week 2.

Most of the numerical models including IMD GFS, GEFS, NCEP GFS, ECMWF, NEPS & NCUM are not indicating any cyclogenesis over the region during weeks 1 and 2. The Genesis Potential Parameter (GPP) based on IMD GFS is not indicating any potential zone for cyclogenesis during week-1. The GPP based on CGEPS (MME) is also not indicating any cyclogenesis during weeks-1 & 2.

Considering the above, it may be concluded that there is no cyclogenesis likely over the north Indian Ocean during weeks 1 & 2. There is a well marked low pressure area located inland (over north Odisha & adjoining areas) as on today. It is likely to move westwards across central India and weaken over western parts of the sub-continent during the middle of week-1. It is also likely that a fresh low pressure area could form over northwest Bay of Bengal around 23rd August.

Verification of forecast issued during last two weeks:

The forecast issued on 6th August for week 2 (14.08.2020-20.08.2020) and the forecast issued on 13th August for week 1 (14.08.2020-20.08.2020) stated NIL probability for the period.

Thus non occurrence of cyclogenesis over North Indian Ocean was correctly predicted two weeks in advance.

Next update: 27.08.2020