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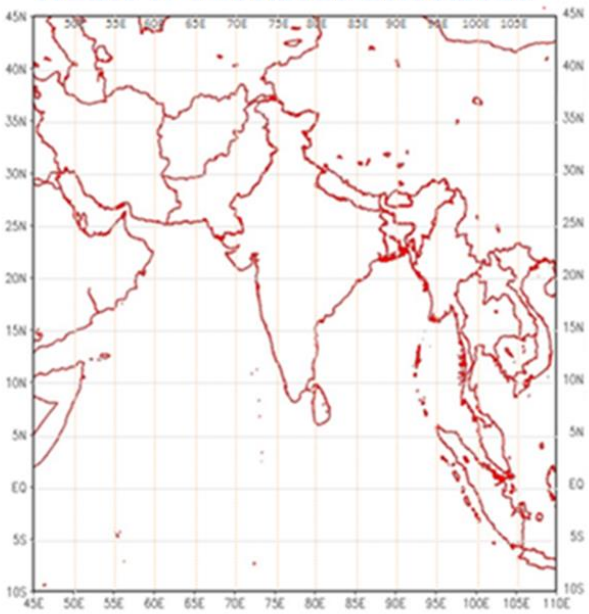
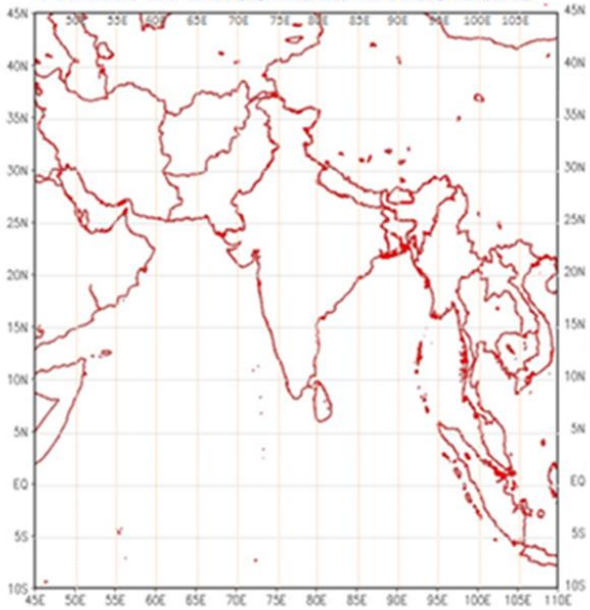
NORTH INDIAN OCEAN EXTENDED RANGE OUTLOOK FOR CYCLOGENESIS

WEEK 1: 14.08.2020-20.08.2020



WEEK 2: 21.08.2020-27.08.2020



PROBABILITY OF CYCLOGENESIS
(FORMATION OF DEPRESSION OR HIGHER INTENSITY)

LOW	(1-33% PROBABILITY)
MODERATE	(34-67% PROBABILITY)
HIGH	(68-100% PROBABILITY)

CONFIDENCE

The Madden Julian Oscillation (MJO) index lies currently in Phase 6 with amplitude less than 1. It is likely to move into Phase 7 and then to phase 8 during first half of week 1 with amplitude less than 1. It will remain in phase 8 during second half of week 1 with amplitude greater than 1. Afterwards it will move into phase 1 during week 2 with amplitude more than 1. Thus, the phase and amplitude of MJO will not support convective activity over the north Indian Ocean during both the weeks.

Most of the numerical models including IMD GFS, GEFS, & NCUM are not indicating any cyclogenesis over the region during week 1 and NCEP GFS for weeks 1 & 2. However, ECMWF & the Genesis Potential Parameter (GPP) based on IMD GFS is indicating potential zone for cyclogenesis over north Bay of Bengal during the beginning of week 1 and IMD GFS GPP alone during the later part of week 1. The GPP based on CGEPS (MME) is 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.

Verification of forecast issued during last two weeks:

The forecast issued on 30th July for week 2 (07.08.2020-13.08.2020) predicted low probability of cyclogenesis over northwest Bay of Bengal off Odisha coast and the forecast issued on 06th August for week 1 stated NIL probability for the period.

No cyclogenesis occurred during the period, other than the re-emergence of a low pressure area into north Arabian Sea, which was indicated in the outlook.

Next update: 20.08.2020