



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI  
TROPICAL WEATHER OUTLOOK**

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 11.06.2021**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 11.06.2021 BASED ON 0300 UTC OF 11.06.2021.**

**BAY OF BENGAL:**

A LOW PRESSURE AREA HAS FORMED OVER NORTHWEST BAY OF BENGAL & COASTAL AREAS OF ODISHA & WEST BENGAL IN THE EARLY MORNING (0000 UTC) OF TODAY, THE 11<sup>TH</sup> JUNE 2021. IT PERSISTED OVER THE SAME REGION AT 0300 UTC OF TODAY. IT IS LIKELY TO BECOME MORE MARKED OVER THE SAME REGION DURING NEXT 24 HOURS AND MOVE WESTNORTHWESTWARDS ACROSS ODISHA.

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER NORTH BAY OF BENGAL, COASTAL GANGETIC WEST BENGAL AND COASTAL ORISSA IN ASSOCIATION WITH LOW PRESSURE AREA OVER THE REGION. MINIMUM CLOUD TOP TEMPERATURE MINUS 93<sup>0</sup>C.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER NORTH BAY OF BENGAL (BOB), CENTRAL BAY OF BENGAL, ANDAMAN SEA AND GULF OF MARTABAN. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION OVER SOUTHEAST BAY OF BENGAL.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS):**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
NIL	LOW	LOW	NIL	NIL

**ARABIAN SEA:**

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED ISOLATED MODERATE TO INTENSE CONVECTION OVER EASTCENTRAL ARABIAN SEA.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS):**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
NIL	NIL	NIL	NIL	NIL

**REMARKS:**

THE MADDEN JULIAN OSCILLATION (MJO) INDEX IS CURRENTLY IN PHASE 1. IT WILL MOVE TO PHASE 2 DURING NEXT 4 DAYS WITH AMPLITUDE NEAR 1. MJOPHASE AND AMPLITUDE IS NOT

FAVOURABLE FOR ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE BAY OF BENGAL. ZONE OF POSITIVE VORTICITY PERSISTS OVER NORTHWEST BOB & ADJOINING WESTCENTRAL BOB ( $80-100 \times 10^{-6} S^{-1}$ ). POSITIVE VORTICITY IS EXTENDING UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS POSITIVE ( $10-15 \times 10^{-5} S^{-1}$ ) OVER ODISHA-ANDHRA PRADESH COASTS & ADJOINING NORTHWEST BOB. UPPER LEVEL DIVERGENCE IS POSITIVE ( $5-10 \times 10^{-5} S^{-1}$ ) OVER ENTIRE NORTH & CENTRAL BOB.

CONSIDERING THE MODEL GUIDANCE, GFS GROUP IS NOT INDICATING DEVELOPMENT OF ANY CYCLONIC DISTURBANCE OVER THE BOB DURING THE FORECAST PERIOD. HOWEVER, ECMWF AND NCUW ARE INDICATING MARGINAL INTENSIFICATION OF LOW PRESSURE AREA OVER NORTHWEST BOB INTO A WELL MARKED LOW PRESSURE/DEPRESSION DURING NEXT 24 HOURS WITH THE SYSTEM CROSSING ODISHA COAST ON 13<sup>TH</sup>.

AS THE SYSTEM IS LYING VERY CLOSE TO COAST, AND CURRENT ENVIRONMENTAL CONDITIONS ARE FAVOURABLE FOR MARGINAL INTENSIFICATION OF THE SYSTEM. HENCE THERE IS LOW PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) OVER NORTHWEST BOB AROUND 12<sup>TH</sup>.

SAT : INSAT-3D IMG  
 IMG\_TIR1 10.8 um  
 LIC Mercator

11-06-2021/(0300 to 0327) GMT  
 11-06-2021/(0830 to 0857) IST

