



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 01.04.2021**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 01.04.2021 BASED ON 0300 UTC OF 01.04.2021.**

**BAY OF BENGAL:**

YESTERDAY'S LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL (BOB) & ADJOINING SOUTH ANDAMAN SEA MOVED NORTHEASTWARDS AND LAY CENTERED OVER CENTRAL PARTS OF ANDAMAN SEA AT 0300 UTC OF TODAY, THE 1<sup>ST</sup> APRIL, 2021.

IT IS LIKELY TO BECOME A WELL MARKED LOW PRESSURE AREA OVER THE SAME REGION DURING NEXT 12 HOURS. THERE IS A LOW PROBABILITY THAT IT MAY CONCENTRATE INTO A DEPRESSION OVER NORTH ANDAMAN SEA & NEIGHBOURHOOD DURING SUBSEQUENT 24 HOURS. IT IS LIKELY TO MOVE NORTHEASTWARDS TOWARDS MYANMAR COAST.

AS PER INSAT-3D IMAGERY BASED ON 0300 UTC OF 1<sup>ST</sup> APRIL, THE AREA OF INTENSE CONVECTION HAS MOVED NORTHEASTWARDS DURING PAST 24 HOURS. THE NUMBER OF CLUSTERS WITH INTENSE TO VERY INTENSE CONVECTION HAS ALSO INCREASED DURING THE PERIOD. THE CLOUDS ARE ORGANISING AROUND THE LOW LEVEL CYCLONIC CIRCULATION (LLCC) OVER ANDAMAN SEA. SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL ANDAMAN SEA ADJOINING SOUTHEAST BAY OF BENGAL BETWEEN LATITUDE 6.0N & 12.0N AND LONGITUDE 91.0E & 97.0E IN ASSOCIATION WITH THE LOW PRESSURE AREA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 °C. THE MICROWAVE IMAGERY INDICATES BROAD SCALE CONVECTIVE CLOUD BANDING FEATURES BUILDING UP WITH THE SYSTEM.

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

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

**ARABIAN SEA:**

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED ISOLATED MODERATE TO INTENSE CONVECTION LAY OVER SOUTHEAST 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

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

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**REMARKS:**

THE MADDEN JULIAN OSCILLATION (MJO) INDEX LIES CURRENTLY IN PHASE 5 WITH AMPLITUDE MORE THAN 1. IT WILL CONTINUE IN SAME PHASE TILL 2<sup>ND</sup> APRIL. THEREAFTER, IT WILL MOVE TO PHASE 6 WITH AMPLITUDE REMAINING MORE THAN 1 AND WILL REMAIN IN SAME PHASE FOR SUBSEQUENT 3 DAYS. THUS, MJO PHASE AND AMPLITUDE WILL SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE ANDAMAN SEA AND ADJOINING AREAS TILL 2<sup>ND</sup> APRIL AND WILL BECOME UNFAVOURABLE FROM 3<sup>RD</sup> ONWARDS. THUS THE LARGE SCALE PROCESS LIKE MJO WILL SUPPORT INTENSIFICATION OF LOW PRESSURE SYSTEM TILL 2<sup>ND</sup> APRIL AND WEAKENING THEREAFTER.

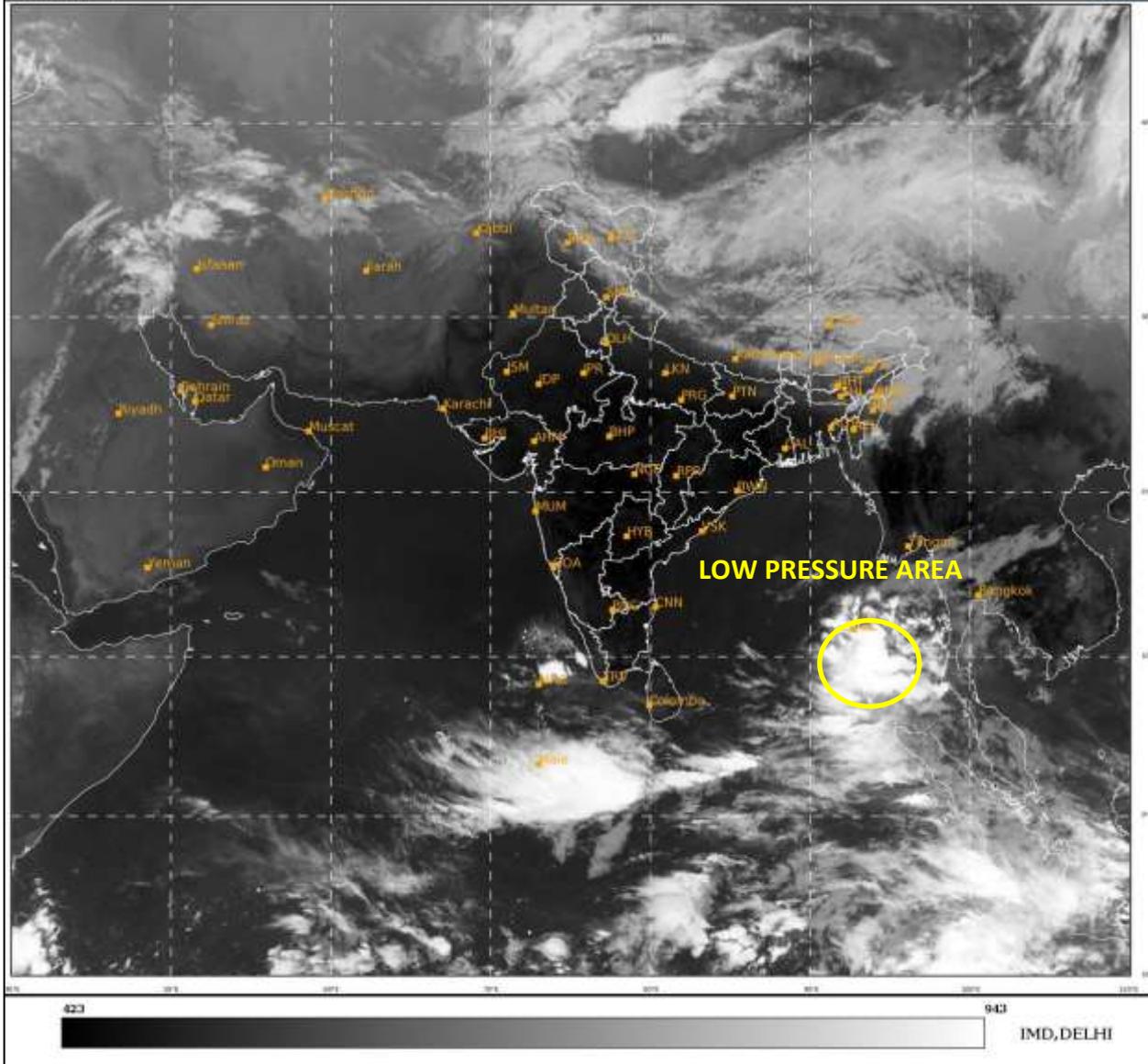
THE LOW LEVEL POSITIVE VORTICITY HAS NOT CHANGED DURING PAST 24 HOURS AND IS ABOUT  $80-90 \times 10^{-6} \text{SEC}^{-1}$  OVER SOUTH ANDAMAN SEA. THE AREAL EXTENSION OF POSITIVE LOW LEVEL CONVERGENCE ZONE HAS INCREASED DURING PAST 24 HOURS ( $5-10 \times 10^{-5} \text{SEC}^{-1}$ ) AND IS COVERING ENTIRE SOUTH ANDAMAN SEA. THE AREAL EXTENSION AND MAGNITUDE OF THE ZONE OF POSITIVE UPPER LEVEL DIVERGENCE HAS ALSO INCREASED ( $20 \times 10^{-5} \text{SEC}^{-1}$ ) OVER SOUTH ANDAMAN SEA. IT IS NOW SOUTH-SOUTHWEST TO NORTH-NORTHEAST ORIENTED. VERTICAL WIND SHEAR (VWS) IS MODERATE (15-20 KTS) OVER ANDAMAN SEA AND ADJOINING EASTCENTRAL BOB. IT IS HIGHER TOWARDS THE NORTHEAST SECTOR. THUS, AS THE LOW PRESSURE SYSTEM MOVES NORTHEASTWARDS, IT WILL GRADUALLY ENTER INTO AN AREA OF HIGH VWS, ESPECIALLY FROM 3<sup>RD</sup> APRIL ONWARDS. THE UPPER TROPOSPHERIC RIDGE RAN ALONG 12°N OVER THE BOB. UNDER THE INFLUENCE OF THE ANTICYCLONIC CIRCULATION OVER SOUTHEAST ASIA AND UPPER TROPOSPHERIC TROUGH IN WESTERLIES RUNNING ALONG 88°E TO THE NORTH OF 15°N, THE LOW PRESSURE SYSTEM WOULD MOVE NORTHEASTWARDS TOWARDS MYANMAR COAST.

THE LOW PRESSURE AREA OVER CENTRAL PARTS OF ANDAMAN SEA AND NEIGHBOURHOOD IS CURRENTLY LYING IN A FAVOURABLE ENVIRONMENT. FEW MODELS ARE INDICATING INTENSIFICATION OF THE SYSTEM INTO A DEPRESSION AROUND 2<sup>ND</sup> APRIL WITH NORTH-NORTHEASTWARDS MOVEMENT TOWARDS MYANMAR COAST AND WEAKENING THEREAFTER.

CONSIDERING ALL THESE, THE LOW PRESSURE AREA IS LIKELY TO INTENSIFY INTO A DEPRESSION WITH LOW PROBABILITY BY 2<sup>ND</sup> APRIL AND GRADUALLY WEAKEN THEREAFTER. IT WOULD CONTINUE TO MOVE NORTHEASTWARDS TOWARDS MYANMAR COAST.

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

01-04-2021/(0300 to 0326) GMT  
01-04-2021/(0830 to 0856) IST



PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

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