



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 17.07.2023**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 0700 UTC OF 17.07.2023 BASED ON 0300 UTC OF 17.07.2023.**

**BAY OF BENGAL:**

1. YESTERDAY'S LOW PRESSURE AREA OVER NORTH ODISHA AND ADJOINING GANGETIC WEST BENGAL & JHARKHAND MOVED WEST-NORTHWESTWARDS AND BECAME LESS MARKED AT 0300 UTC OF TODAY, THE 17<sup>TH</sup> JULY, 2023.
2. A FRESH CYCLONIC CIRCULATION IS LIKELY TO FORM OVER NORTHWEST BAY OF BENGAL WITHIN 48 HOURS.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH, CENTRAL AND SOUTHEAST BAY OF BENGAL AND NORTH ANDAMAN SEA. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER SOUTHWEST BAY OF BENGAL, SOUTH ANDAMAN SEA AND TENASSERIM COAST.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

| 24 HOURS | 24-48 HOURS | 48-72 HOURS | 72-96 HOURS | 96-120 HOURS | 120-144 HOURS | 144-168 HOURS |
|----------|-------------|-------------|-------------|--------------|---------------|---------------|
| NIL      | NIL         | NIL         | LOW         | MODERATE     | LOW           | NIL           |

**ARABIAN SEA:**

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER NORTHEAST ARABIAN OFF SOUTH GUJARAT COAST, EASTCENTRAL AND SOUTHEAST ARABIAN SEA AND LAKSHADWEEP ISLAND AREA. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED ISOLATED WEAK TO MODERATE CONVECTION LAY OVER GULF OF CAMBAY, WESTCENTRAL AND SOUTHWEST ARABIAN SEA AND COMORIN AREA.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

| 24 HOURS | 24-48 HOURS | 48-72 HOURS | 72-96 HOURS | 96-120 HOURS | 120-144 HOURS | 144-168 HOURS |
|----------|-------------|-------------|-------------|--------------|---------------|---------------|
| NIL      | NIL         | NIL         | NIL         | NIL          | NIL           | NIL           |

## REMARKS:

### MODEL GUIDANCE FOR BAY OF BENGAL (BOB):

VARIOUS DETERMINISTIC MODELS INCLUDING ECMWF, IMD GFS, NCUM, NEPS AND GEFS ARE INDICATING LIKELY DEVELOPMENT OF CYCLONIC CIRCULATION AROUND 19<sup>TH</sup> JULY OVER CENTRAL PARTS OF NORTH BAY OF BENGAL. UNDER IT'S INFLUENCE, A LOW PRESSURE AREA IS LIKELY TO FORM OVER NORTHWEST BOB & ADJOINING AREAS AROUND 20<sup>TH</sup> JULY AND FURTHER A DEPRESSION DURING 21<sup>ST</sup>-22<sup>ND</sup> JULY. THERE IS LARGE VARIATION AMONG VARIOUS MODELS WRT AREA OF GENESIS WITH IMD GFS INDICATING GENESIS OVER NORTHEAST BOB AROUND 21<sup>ST</sup> AND ECMWF OVER NORTHWEST BOB AROUND 22<sup>ND</sup>. NCUM IS NOT INDICATING DEPRESSION. IT IS INDICATING INTENSIFICATION UPTO WELL MARKED LOW PRESSURE STAGE OVER ODISHA AND ADJOINING AREAS. IN VIEW OF THE AVAILABLE MODEL GUIDANCE AND ENVIRONMENTAL FEATURES, IT IS INFERRED THAT A CYCLONIC CIRCULATION IS LIKELY TO FORM OVER NORTHWEST BOB AND ADJOINING AREAS AROUND 19<sup>TH</sup> AND LOW PRESSURE AREA AROUND 20<sup>TH</sup> July. THERE IS LOW TO MODERATE PROBABILITY OF IT'S INTENSIFICATION INTO A DEPRESSION OVER NORTHWEST BOB OFF ODISHA COAST DURING 21<sup>ST</sup>-22<sup>ND</sup>. FURTHER, IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS ACROSS ODISHA COAST.

Legends: IMD GFS: India Meteorological Department Global Forecast System, NCUM: National Centre for Medium Range Weather Forecasting Centre (NCMRWF) Unified Model, European Centre for Medium Range Weather Forecasting, GPP: Genesis Potential Parameter, National Centre for Environment Prediction GFS, ECMM: ECMWF multi model, GEFS: GFS ensemble, NEPS: NCUM ensemble prediction system, CNCUM: Coupled NCUM, CPC: Climate Prediction Center, NWS: National Weather Service)

