REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 26.07.2023

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 0530 UTC OF 26.07.2023 BASED ON 0300 UTC OF 26.07.2023.

BAY OF BENGAL:

YESTERDAY'S WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH-SOUTH ODISHA COASTS PERSISTED OVER THE SAME REGION AT 0300 UTC OF TODAY, THE 26TH JULY, 2023. THE SYSTEM IS LIKELY TO MOVE SLOWLY NORTHWESTWARDS ACROSS NORTH ANDHRA PRADESH-SOUTH ODISHA COASTS DURING NEXT 24 HOURS .

AS PER INSAT 3D IMAGERY, THE VORTEX IS CENTERED NEAR 18.1N / 84.8E. INTENSITY OF THE SYSTEM IS T1.0. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER WESTCENTRAL BAY OF BENGAL AND NORTH COASTAL ANDHRA PRADESH.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 10-15 KNOTS GUSTING TO 20 KNOTS. ESTIMATED CENTRAL PRESSURE IS 998 HPA. SEA CONDITION IS LIKELY TO BE ROUGH OVER WESTCENTRAL BOB AND ADJOINING AREAS OF NORTH, EASTCENTRAL AND SOUTH BOB.

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

ARABIAN SEA:

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER EASTCENTRAL AND SOUTHEAST ARABIAN SEA, GULF OF CAMBAY, LAKSHADWEEP ISLAND AREA, COMORIN AREA AND ISOLATED WEAK TO MODERATE CONVECTION LAY OVER REST ARABIAN SEA.

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

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100% This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins

REMARKS:

MADDEN JULIAN OSCILLATION IS IN PHASE 6 WITH AMPLITUDE LESS THAN 1 AND WOULD CONTINUE IN SAME PHASE DURING NEXT 3-4 DAYS. TOTAL PRECIPITABLE WATER IMAGERY INDICATES WARM MOIST AIR INCURSION INTO THE CORE AND AROUND THE SYSTEM AREA. SEA SURFACE TEMPERATURE IS AROUND 29-30°C OVER WESTCENTRAL & ADJOINING NORTHWEST BOB. THE LOW LEVEL VORTICITY HAS DECREASED AND IS AROUND $100X10^{-6}S^{-1}$ OVER WESTCENTRAL BOB TO THE SOUTH OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS ABOUT $10X10^{-5}S^{-1}$ TO THE SOUTHWEST OF THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE HAS DECREASED AND IS AROUND $20X10^{-5}$ S^{-1} TO THE SOUTHWEST OF SYSTEM CENTRE. VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS) TO THE NORTHWEST OF SYSTEM AREA. SHEAR TENDENCY IS POSITIVE OVER THE SYSTEM AREA. ALL THESE FEATURES DO NOT SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM INTO A DEPRESSION. HOWEVER, THESE FEATURES INDICATE THAT THE SYSTEM WOULD MAINTAIN IT'S INTENSITY AS A WELL MARKED LOW PRESSURE AREA/LOW PRESSURE AREA DURING NEXT 24 HOURS.

VARIOUS DETERMINISTIC MODELS INCLUDING ECMWF, IMD GFS, NCUM, NEPS AND GEFS ARE INDICATING A WELL MARKED LOW PRESSURE AREA (WML)/ LOW PRESSURE AREA (LPA) OVER WESTECENTRAL & ADJOINING NORTHWEST BOB OFF NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS AT 0000 UTC OF TODAY, THE 26^{TH} JULY. MOST OF THE MODELS ARE INDICATING NO FURTHER INTENSIFICATION OF THE SYSTEM. MODELS ARE FURTHER INDICATING GRADUAL NORTHWESTWARDS MOVEMENT ACROSS NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS TILL 27^{TH}. THEREAFTER, IT WOULD WEAKEN FURTHER AND MOVE GRADUALLY NORTHEASTWARDS OVER ODISHA.

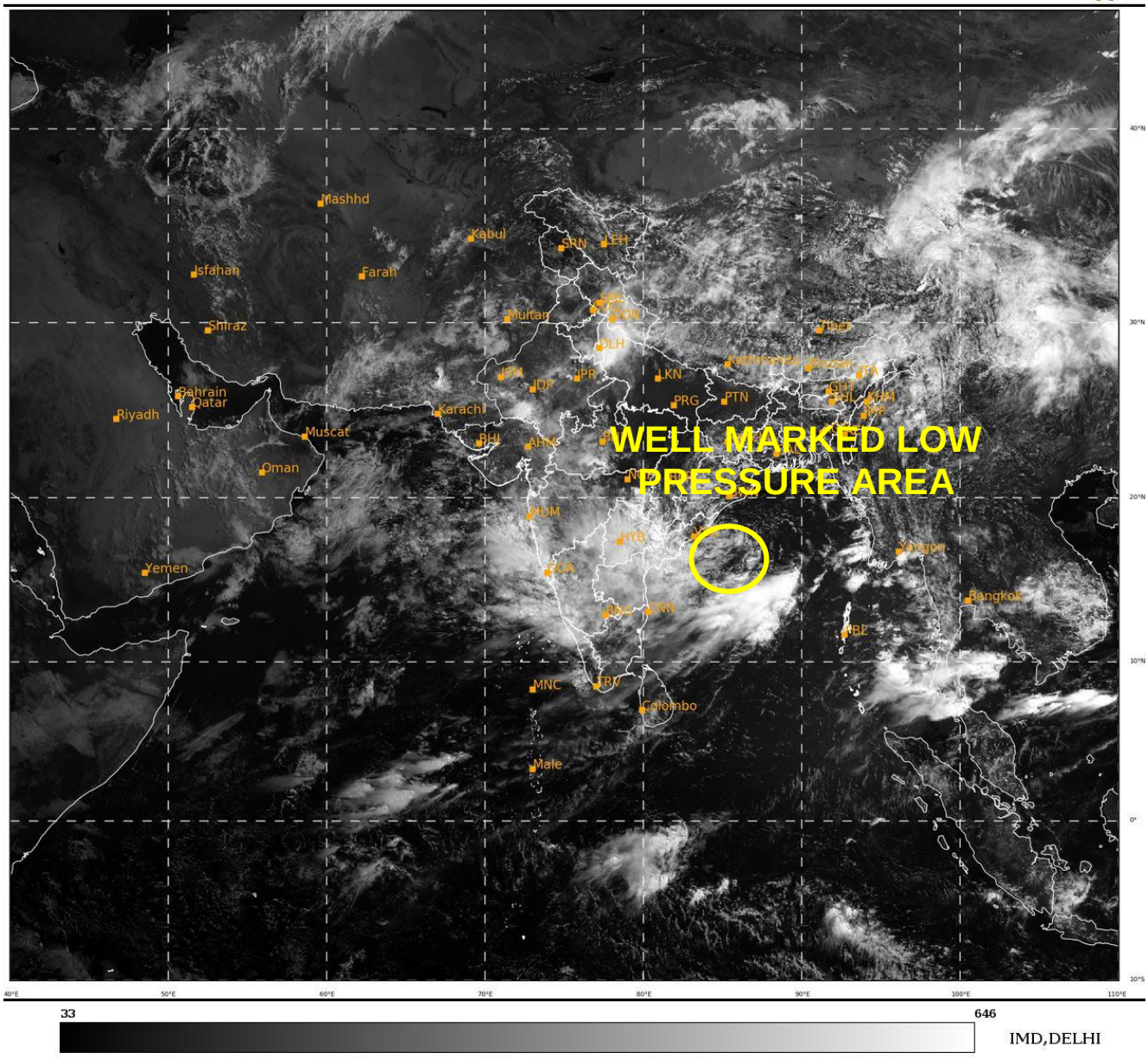
CONSIDERING ALL THESE FEATURES AND MODEL GUIDANCE, IT IS INFERRED THAT THERE IS NO PROBABILITY OF CYCLOGENESIS OVER THE BOB DURING NEXT 7 DAYS. ALTHOUGH, DUE TO ACTIVE MONSOON, FRESH CYCLONIC CIRCULATION / LOW PRESSURE AREA MAY DEVELOP OVER NORTH BOB DURING THE FORECAST PERIOD.

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)

(M. SHARMA)
SCIENTIST-D
RSMC NEW DELHI

SAT : INSAT-3DR IMG
Visible Count 0.65 um
L1C Mercator

26-07-2023/(0415 to 0442) GMT
26-07-2023/(0945 to 1012) IST



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IMD,DELHI

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