REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 24.07.2023

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 0600 UTC OF 24.07.2023 BASED ON 0300 UTC OF 24.07.2023.

BAY OF BENGAL:

YESTERDAY'S CYCLONIC CIRCULATION OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL NOW LIES OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH-SOUTH ODISHA COASTS AND EXTENDS UPTO 7.6 KM ABOVE MEAN SEA LEVEL TILTING SOUTHWARDS WITH HEIGHT. UNDER ITS INFLUENCE, A LOW PRESSURE AREA IS LIKELY TO FORM OVER THE SAME REGION DURING NEXT 24 HOURS. THE SYSTEM IS LIKELY TO CONCENTRATE INTO A DEPRESSION OVER THE REGION AROUND 26TH JULY, 2023. SUBSEQUENTLY, IT IS LIKELY TO MOVE SLOWLY WEST-NORTHWESTWARDS ACROSS NORTH ANDHRA PRADESH-SOUTH ODISHA COASTS.

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

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	LOW	MODERATE	LOW	NIL	NIL	NIL

ARABIAN SEA:

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH ARABIAN SEA. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER REST 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 A LOW PRESSURE AREA (LPA) IS LIKELY TO FORM OVER WESTECENTRAL & ADJOINING NORTHWEST BOB OFF NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS DURING NEXT 24 HOURS. IN THE FORECASTS OF IMDGFS, NCUM AND ECMWF MODELS, THE SYSTEM WILL INTENSIFY INTO A DEPRESSION OVER THE SAME REGION AROUND 26TH JULY AND SUBSEQUENTLY MOVE SLOWLY WEST-NORTHWESTWARDS TOWARDS NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS. NCEP GFS IS ALSO SUPPORTING THE FURTHER INTENSIFICATION OVER THE REGION BUT MOVEMENT IS MORE NORTHWARDS.

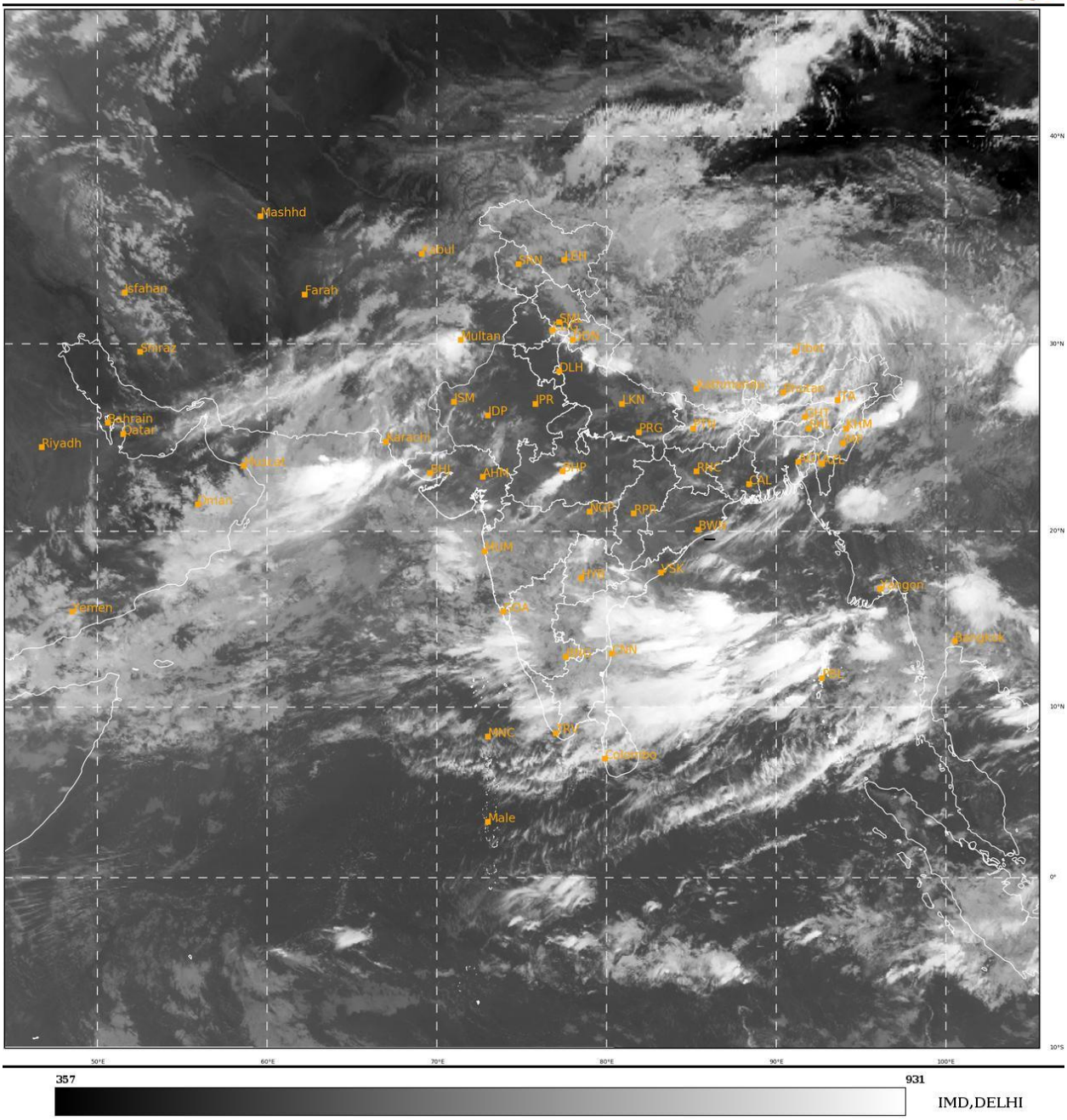
THEREFORE, MODELS ARE IN CONSENSUS ABOUT THE FORMATION OF A LOW PRESSURE OVER NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS DURING NEXT 24 HOURS. MODELS ARE ALSO SHOWING FURTHER INTESIFICATION OF THE LPA INTO A DEPRESSION DURING SUBSEQUENT TWO DAYS BUT THERE ARE VARIATION IN TIME AND LOCATION OF THE SYSTEM. IN ADDITION, NEPS AND GEFS MODELS ARE SHOWING LOW-MODERATE PROBABILITY THAT THE LPA IS LIKELY TO INTENSIFY FURTHER INTO A DEPRESSION DURING SUBSEQUENT 2 DAYS AFTER ITS FORMATION.

IN VIEW OF THE AVAILABLE MODEL GUIDANCE AND ENVIRONMENTAL FEATURES, IT IS INFERRED THAT A LPA IS LIKELY TO FORM OVER WESTCENTRAL AND ADJOINING NORTHWEST BOB OFF NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS DURING NEXT 24 HOURS. THE SYSTEM HAS LOW-MODERATE PROBABILITY FOR ITS FURTHER INTENSIFICATION INTO A DEPRESSION DURING SUBSEQUENT 2 DAYS.

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)

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

24-07-2023/(0300 to 0326) GMT
24-07-2023/(0830 to 0856) IST



IMD,DELHI

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%
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