REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 23.07.2023

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 23.07.2023 BASED ON 0300 UTC OF 23.07.2023.

BAY OF BENGAL:

YESTERDAY'S CYCLONIC CIRCULATION OVER WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL NOW LIES OVER SOUTH ODISHA & NEIGHBOURHOOD AT 3.1 KM ABOVE MEAN SEA LEVEL.

A FRESH CYCLONIC CIRCULATION IS LIKELY TO FORM OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL AROUND 24TH JULY. UNDER ITS INFLUENCE A LOW PRESSURE AREA IS LIKELY TO FORM OVER THE SAME REGION DURING SUBSEQUENT 24 HOURS.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL ADJOINING SOUTH BAY OF BENGAL, ANDAMAN SEA, GULF OF MARTABAN AND TENASSERIM COAST. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER REST 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	NIL	LOW	LOW	NIL	NIL	NIL

ARABIAN SEA:

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTHEAST ARABIAN SEA, GULF OF KUTCH, GULF OF CAMBAY AND EASTCENTRAL ARABIAN SEA. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER LAKSHADWEEP ISLAND AREA ADJOINING SOUTHEAST ARABIAN SEA AND 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

REMARKS:

MODEL GUIDANCE FOR BAY OF BENGAL (BOB):

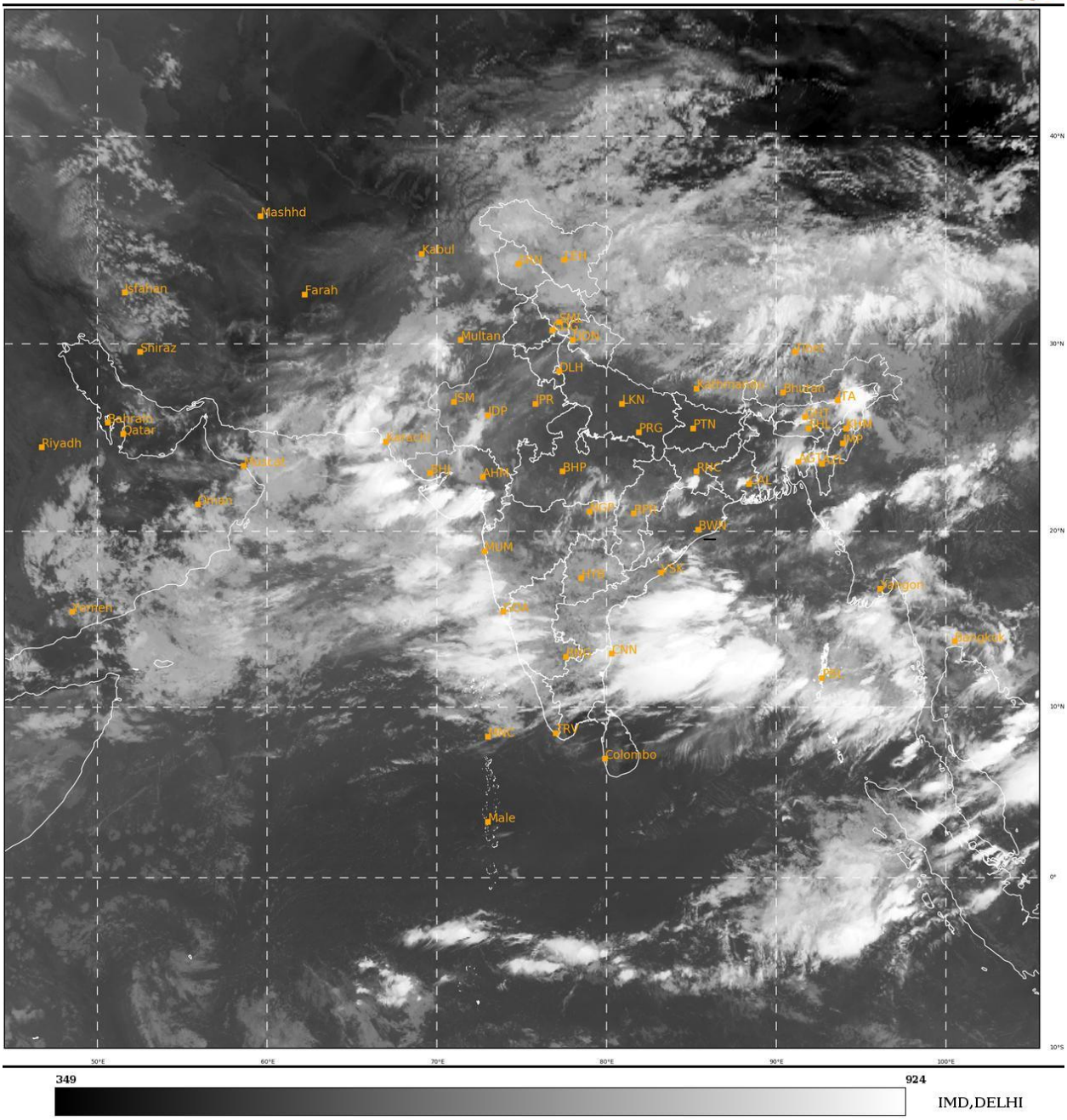
VARIOUS DETERMINISTIC MODELS INCLUDING ECMWF, IMD GFS, NCUM, NEPS AND GEFS ARE INDICATING A LOW PRESSURE AREA (LPA) IS LIKELY TO FORM OVER WESTECENTRAL & ADJOINING NORTHWEST BOB AROUND 24TH JULY. IN THE FORECASTS OF IMDGFS, NCUM AND NCEP GFS MODELS, THE SYSTEM WILL BECAME MORE MARKED OVER THE SAME REGION AND MOVE SLOWLY NORTHWARDS OVER NORTHWEST BOB DURING SUBSEQUENT 2 DAYS. ECMWF MODEL IS ALSO SUPPORTING THE FURTHER INTENSIFICATION OVER THE REGION BUT WITHOUT ANY SIGNIFICANT MOVEMENT.
THEREFORE, MODELS ARE IN CONSENSUS ABOUT THE FORMATION OF A LOW PRESSURE AREA SYSTEM OVER WESTCENTRAL AND ADJOINING NORTHWEST BOB AROUND 24TH JULY. MODELS ARE ALSO SHOWING FURTHER INTESIFICATION OF THE LPA DURING SUBSEQUENT TWO DAYS BUT THERE ARE VARIATION IN TIME AND MAXIMUM INTENSITY (WELL MARKED LPA / DEPRESSION) OF THE SYSTEM. IN ADDITION, NEPS AND GEFS MODELS ARE SHOWING LOW 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 AROUND 24TH JULY. THE SYSTEM HAS LOW 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

23-07-2023/(0300 to 0326) GMT
23-07-2023/(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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