





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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 10.09.2024 SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 1500 UTC OF 10.09.2024 BASED ON 1200 UTC OF 10.09.2024.

WELL MARKED LOW PRESSURE AREA NORTHEAST MADHYA PRADESH AND NEIGHBOURHOOD

THE DEPRESSION OVER NORTH CHHATTISGARH MOVED NORTHWESTWARDS AND WEAKENED INTO A WELL MARKED LOW PRESSURE AREA OVER NORTHEAST MADHYA PRADESH AND NEIGHBOURHOOD AT 1200 UTC OF TODAY, THE 10TH SEPTEMBER.

HOWEVER, THERE IS A POSSIBILITY OF ITS RE-INTENSIFICATION INTO A DEPRESSION AROUND 1200 UTC OF 11TH SEPTEMBER OVER CENTRAL PARTS OF NORTH MADHYA PRADESH AND ADJOINING UTTAR PRADESH. THUS, THE SYSTEM IS UNDER CONTINUOUS MONITORING.

NEXT UPDATE IN ASSOCIATION WITH THIS SYSTEM WILL BE ISSUED AT 1230 HOURS IST OF TOMORROW, THE 11TH SEPTEMBER.

AS PER INSAT 3DR IMAGERY AT 1200 UTC, ASSOCIATED BROKEN LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER WEST ODISHA, CHHATTISGARH, EAST MADHYA PRADESH, VIDHARBHA AND ADJOINING TELANGANA WITH MINIMUM CLOUD TOP TEMPERATURE OF -93°C AND MODERATE TO INTENSE CONVECTION LAY OVER TELANGANA AND NORTH COASTAL ANDHRA PRADESH.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED (MSW) IN ASSOCIATION WITH THE SYSTEM IS 15 KTS GUSTING TO 25 KTS. ESTIMATED CENTRAL PRESSURE IS 995 HPA.

AT 1200 UTC, PENDRA ROAD (CHHATISGARH) REPORTED LOWEST MEAN SEA LEVEL PRESSURE (MSLP) OF 995.1 HPA. PRESSURE CHANGE DURING PAST24 HOURS IS -2.0 HPA OVER CENTRAL MADHYA PRADESH. ISALLOBARIC ANALYSIS SHOWS NORTH-SOUTH ORIENTATION, INDICATING THE MOVEMENT OF SYSTEM TILL WEST MADHYA PRADESH ONLY. DEPARTURE FROM NORMAL OVER MAJOR PARTS OF COUNTRY IS -3.0 TO -4.0 HPA. MAXIMUM DEPARTURE IS -6.5 HPA FROM NORMAL OVER PENDRA ROAD. CONSIDERING ALL THESE, THE PRESSURE DROP AT CENTRE IS AROUND 2 HPA AND HENCE, THE SYSTEM HAS BEEN WEAKENED INTO A WELL MARKED LOW PRESSURE AREA.

REMARKS:

CURRENT ENVIRONMENTAL CONDITONS INDICATE THAT THE DEPRESSION OVER NORTH CHHATTISGARH IS LYING IN A MODERATELY FAVOURABLE ENVIRONMENT. MADDEN JULIAN OSCILLATION (MJO) INDEX IS CURRENTLY IN PHASE 5 WITH AMPLITUDE LESS THAN 1. IT IS LIKELY TO CONTINUE IN SAME PHASE DURING NEXT 2-3 DAYS. THUS, MJO WOULD SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER EAST & CENTRAL INDIA. NCICS BASED GUIDANCE ON EQUATORIAL WAVES INDICATE, STRONG WESTERLY WINDS (5-7 MPS) ALONGWITH ROSSBY WAVES OVER CENTRAL PARTS OF INDIA AND STRONG EASTERLY WINDS (5-7MPS) OVER NORTHERN PARTS OF INDIA DURING NEXT 3-4 DAYS. CONSIDERING THESE FEATURES, RE-INTENSIFICATION OF SYSTEM IS NOT RULED OUT.

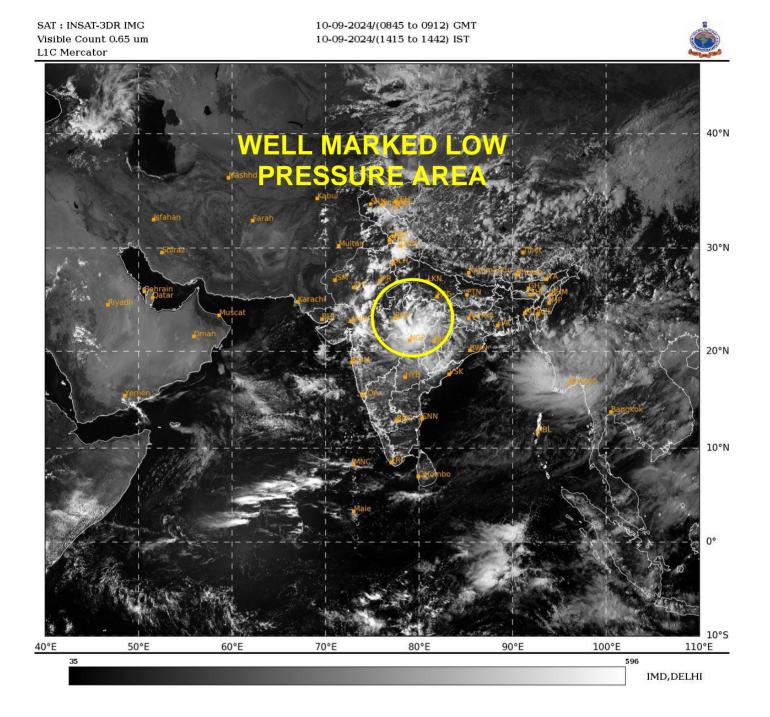
MOST OF THE MODELS ARE INDICATING THAT THE SYSTEM WILL MOVE SLOWLY ACROSS NORTH MADHYA PRADESH AND ADJOINING SOUTH UTTAR PRADESH. THEREAFTER, IT IS LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND INTENSIFY FURTHER INTO A DEPRESSION OVER CENTRAL PARTS OF NORTH MADHYA PRADESH AND ADJOINING UTTAR PRADESH. APPROACHING WESTERLY TROUGH AT 400 HPA LEVEL IS LIKELY TO PROVIDE ENHANCED DIVERGENCE IN UPPER LEVELS, LEADING TO RE-INTENSIFICATION OF SYSTEM AROUND 11TH SEPTMBER AND WOULD ALSO INHIBIT ITS FURTHER NORTHWESTWARDS MOVEMENT LEADING TO RECURVATURE OF THE SYSTEM. MODELS ARE ALSO INDICATING INCREASED MOISTURE INCURSION INTO THE SYSTEM FROM ARABIAN SEA.

IN VIEW OF ALL THE ABOVE, IT IS INFERRED THAT THE WELL MARKED LOW PRESSURE AREA OVER NORTHEAST MADHYA PRADESH AND NEIGHBOURHOOD IS LIKELY TO MOVE NEARLY NORTH-NORHWESTWARDS AND RE-INTENSIFY INTO A DEPRESSION AROUND 1200 UTC OF 11TH SEPTEMBER OVER CENTRAL PARTS OF NORTH MADHYA PRADESH AND ADJOINING UTTAR PRADESH. HENCE THE SYSTEM IS BEING MONITORED CONTINUOUSY.

NEXT UPDATE IN ASSOCIATION WITH THIS SYSTEM WILL BE ISSUED AT 0700 UTC OF TOMORROW, THE 11TH SEPTEMBER.

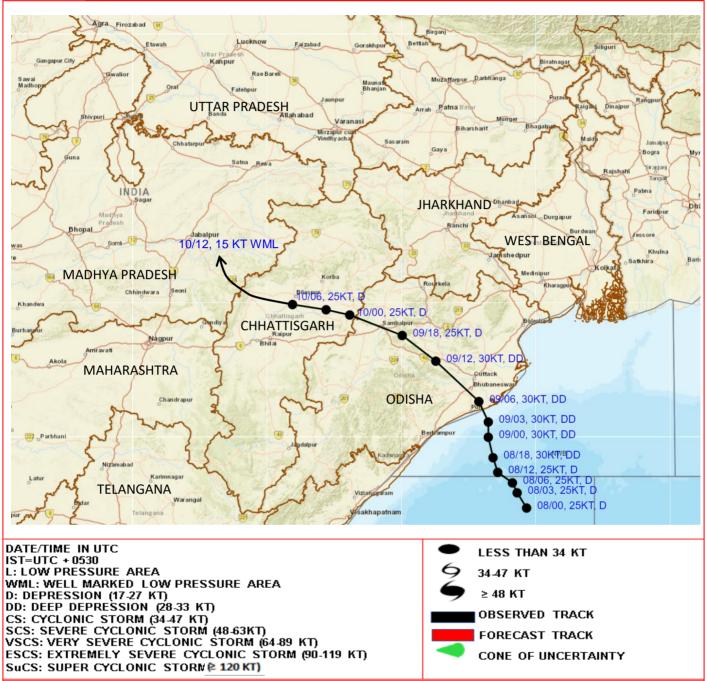
(M. SHARMA) SC.-D, RSMC NEW DELHI

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% This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins





OBSERVED TRACK OF DEPRESSION OVER BAY OF BENGAL DURING 08th TO 10th SEPTEMBER, 2024.







Fishermen Warning Graphics

