



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 22.11.2021

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 22.11.2021 BASED ON 0300 UTC OF 22.11.2021.

BAY OF BENGAL:

YESTERDAY'S CYCLONIC CIRCULATION OVER SOUTH ANDAMAN SEA & NEIGHBOURHOOD LAY OVER SOUTHEAST BAY OF BENGAL (BOB) AND NEIGHBOURHOOD AT 0300 UTC OF TODAY, THE 22ND NOVEMBER AND EXTENDED UPTO 5.8 KM ABOVE MEAN SEA LEVEL.

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHWEST BOB. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED ISOLATED MODERATE TO INTENSE CONVECTION LAY OVER WESTCENTRAL BOB OFF SOUTH ANDHRA PRADESH COAST AND SOTHEAST BOB & ANDAMAN SEA.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
NIL	NIL	NIL	NIL	NIL

ARABIAN SEA:

SUB: WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL ARABIAN SEA

THE WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL ARABIAN SEA MOVED GRADUALLY SOUTHWESTWARDS AND LAY OVER SOUTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA AT 0000 UTC OF TODAY, THE 21ST NOVEMBER. MOVING FURTHER WEST-SOUTHWESTWARDS, IT LAY OVER WESTCENTRAL AND ADJOINING SOUTHWEST ARABIAN SEA AT 0300 UTC. IT IS LIKELY TO MOVE FURTHER WEST-SOUTHWESTWARDS DURING NEXT 2 DAYS AND WEAKEN GRADUALLY THEREAFTER.

AS PER SATELLITE IMAGERY AT 0300 UTC, INTENSITY OF THE SYSTEM IS CHARACTERIZED AS T 1.0. VORTEX IS CENTERED NEAR 12.2N/65.0E. ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHWEST AND ADJOINING WESTCENTRAL ARABIAN SEA BETWEEN LATITUDE 10.0N & 17.0N AND LONGITUDE 58.0E & 65.0E. MINIMUM CLOUD TOP TEMPERATURE (CTT) IS SAME DURING PAST 24 HOURS AND IS AROUND MINUS 93°C. THE AREA OF INTENSE CONVECTION IS SHEARED TO THE WEST OF SYSTEM CENTRE.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
NIL	NIL	NIL	NIL	NIL

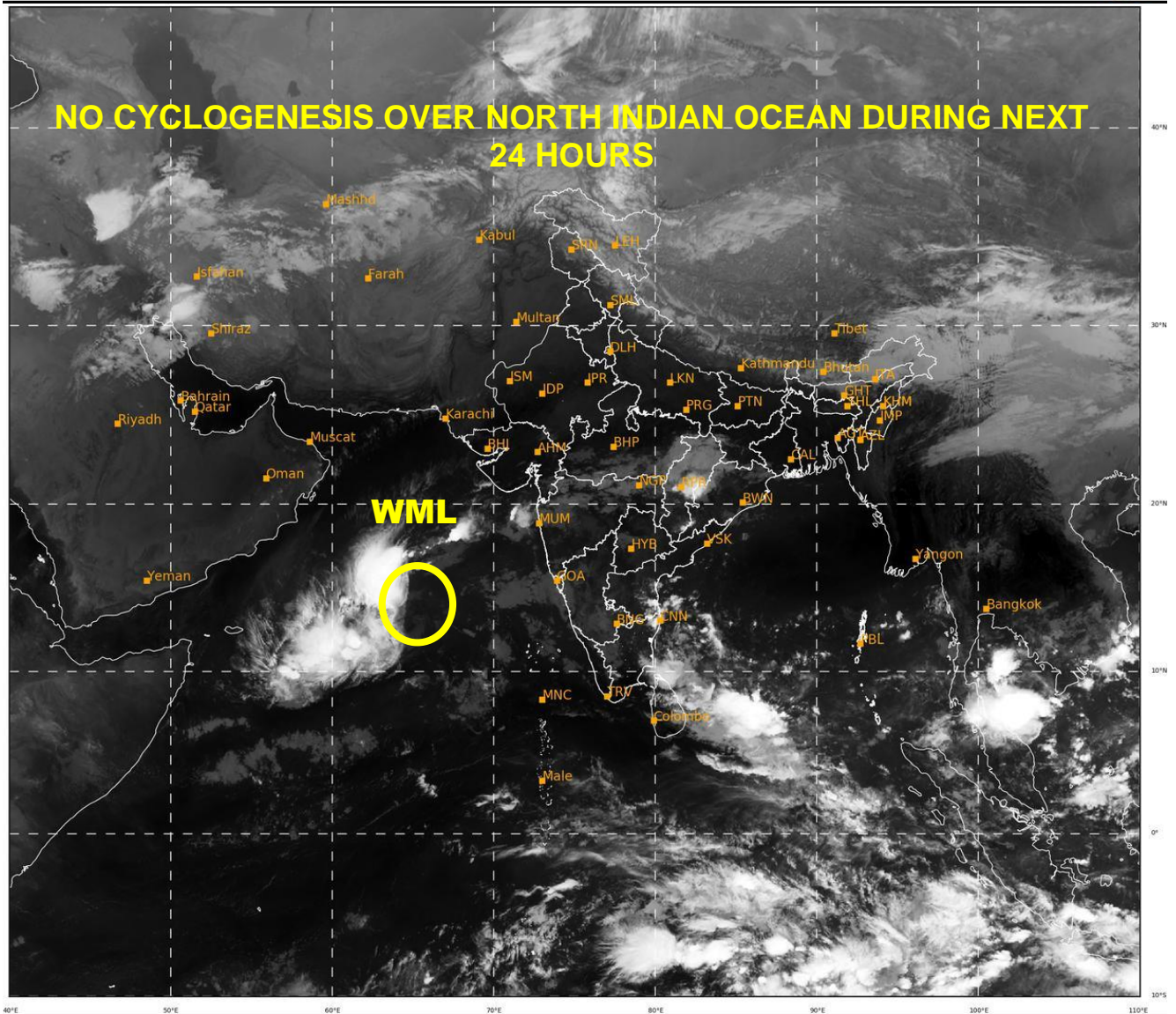
REMARKS:

SEA SURFACE TEMPERATURE (SST) IS ABOUT 28-29°C OVER EASTCENTRAL ARABIAN SEA, BECOMING <28°C OVER WESTERN PARTS OF THE ARABIAN SEA. TROPICAL CYCLONE HEAT POTENTIAL (TCHP) IS ABOUT 60-80 KJ/CM² OVER EASTCENTRAL ARABIAN SEA AND IS DECREASING TOWARDS WESTERN PARTS OF ARABIAN SEA. POSITIVE LOW LEVEL VORTICITY HAS NOT CHANGED DURING PAST 24 HOURS AND IS ABOUT 50X10⁻⁶ S⁻¹ NEAR SYSTEM CENTRE OVER CENTRAL PARTS OF ARABIAN SEA WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. TWO ZONES OF POSITIVE CONVERGENCE AT LOW LEVEL ARE SEEN, ABOUT 05 OVER NORTHEAST ARABIAN SEA TO THE NORTH OF SYSTEM CENTRE AND 05-10 X10⁻⁵ S⁻¹ OVER SOUTHWEST ARABIAN SEA TO THE SOUTHWEST OF SYSTEM CENTRE. POSITIVE UPPER LEVEL DIVERGENCE HAS INCREASED SIGNIFICANTLY IN PAST 24 HOURS AND IS ABOUT 30 X10⁻⁵ S⁻¹ TO THE SOUTHWEST OF SYSTEM CENTRE. WIND SHEAR IS LOW TO MODERATE (10-15 KT) OVER CENTRAL ARABIAN SEA OVER THE SYSTEM AREA. IT IS MODERATE (15-20 KT) TOWARDS WEST OF SYSTEM AREA AND ALSO OVER SOUTHWEST ARABIAN SEA ALONG THE EXPECTED TRACK. DEEP LAYER MEAN WIND FLOW IS INDICATING NEAR WESTWARDS MOVEMENT OF SYSTEM.

MOST OF THE MODELS ARE INDICATING SLOW WEST-SOUTHWESTWARD MOVEMENT OF THE SYSTEM DURING NEXT 2-3 DAYS TOWARDS SOUTHWEST ARABIAN SEA OFF SOMALIA COAST.

THE CURRENT ENVIRONMENTAL FEATURES AND MODEL GUIDANCE INDICATE THAT THE WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL AND ADJOINING SOUTHWEST ARABIAN SEA WOULD MOVE WEST-SOUTHWESTWARDS DURING NEXT 2 DAYS AND WEAKEN GRADUALLY THEREAFTER.

NEXT MESSAGE WILL BE ISSUED AT 0600 UTC OF 23RD NOVEMBER, 2021.



433

941

IMD, DELHI

WML: WELL MARKED LOW PRESSURE AREA