



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 18.11.2020

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 18.11.2020 BASED ON 0300 UTC OF 18.11.2020 .

BAY OF BENGAL:

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER SOUTH BAY OF BENGAL & SOUTH 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:

A LOW PRESSURE AREA IS LIKELY TO FORM OVER CENTRAL PARTS OF SOUTH ARABIAN SEA AROUND 19TH NOVEMBER, 2020. IT IS VERY LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION OVER CENTRAL PARTS OF SOUTH ARABIAN SEA AND ADJOINING CENTRAL ARABIAN SEA DURING SUBSEQUENT 48 HOURS.

BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTH ADJOINING CENTRAL ARABIAN SEA, COMORIN & MALDIEVES. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED WEAK CONVECTION LAY OVER NORTH ARABIAN 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	LOW	MODERATE	HIGH

REMARKS:

THE MADDEN JULIAN OSCILLATION (MJO) INDEX IS CURRENTLY IN PHASE 2 WITH AMPLITUDE MORE THAN 1. IT WILL CONTINUE IN SAME PHASE TILL 20TH NOVEMBER WITH AMPLITUDE REMAINING MORE THAN 1. THEREAFTER, IT WILL MOVE TO PHASE 3 WITH AMPLITUDE BECOMING LESS THAN 1. THUS MJO WILL SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE NORTH INDIAN OCEAN

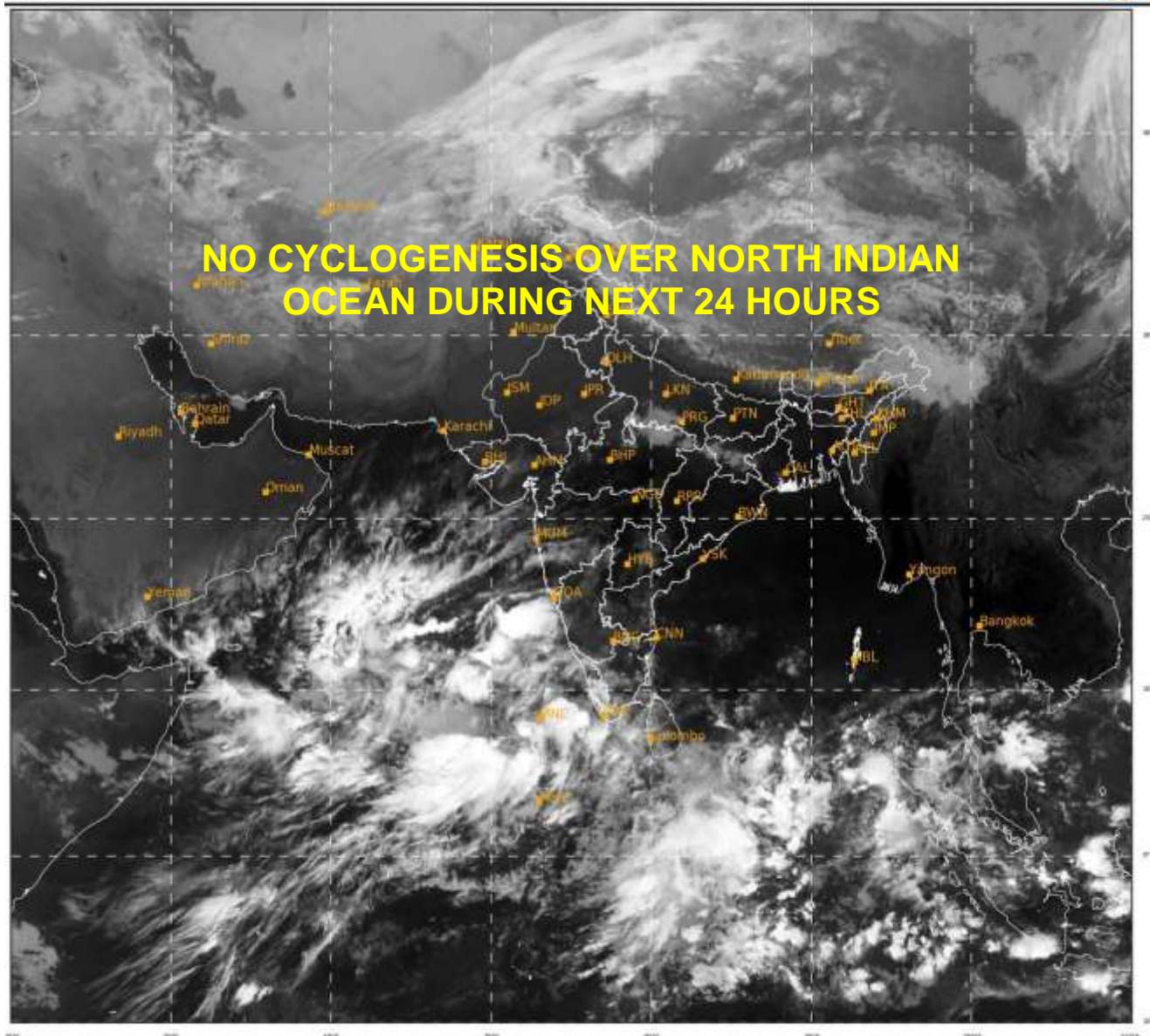
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

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INCLUDING BAY OF BENGAL (BOB) AND ARABIAN SEA (AS) FOR NEXT 5 DAYS. CONSIDERING THE SEA CONDITIONS, SST IS AROUND 29-30°C OVER MOST PARTS OF SOUTH AND EASTCENTRAL ARABIAN SEA (AS). IT IS SLIGHTLY LESS (26-28°C) OVER WESTCENTRAL & NORTH AS. HIGH TCHP (100-120 KJ/CM²) PREVAILS OVER COMORIN AREA AND ADJOINING SOUTHWEST BOB OFF SOUTH SRI LANKA COAST AND KERALA COAST. TCHP IS AROUND 60-80 KJ/CM² OVER MAJOR PARTS OF SOUTH AS EXCEPT OFF NORTH SOMALIA COAST. TCHP IS LESS THAN 50KJ/CM² TO THE WEST OF 68°E AND NORTH 11°N OVER THE CENTRAL & NORTH AS AND 60 – 80 KJ/CM² OVER REMAINING PARTS OF EASTCENTRAL & NORTHEAST AS. CONSIDERING THE ENVIRONMENTAL CONDITIONS, POSITIVE RELATIVE VORTICITY (25-50X10⁻⁶S⁻¹) PREVAILS OVER SOUTHEAST AND ADJOINING SOUTHWEST & WESTCENTRAL AS WITH VERTICAL EXTENSION UPTO 200 HPA LEVEL. AREA OF POSITIVE DIVERGENCE (20-30X10⁻⁵S⁻¹) PREVAILS OVER SOUTHEAST AS TO THE SOUTHWEST OF INVEST AREA. AREA OF POSITIVE CONVERGENCE ZONE (05-10 X 10⁻⁵S⁻¹) PREVAILS OVER SOUTHEAST AS TO THE SOUTHEAST OF INVEST AREA. THE VERTICAL WIND SHEAR (VWS) IS MODERATE (10-15 KTS) OVER SOUTHEAST AND ADJOINING SOUTHWEST & WESTCENTRAL AS. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA RUNS ALONG 15°N OVER THE AS.

SOME MODELS LIKE IMD GFS, NCEP GFS AND ECMWF ARE INDICATING DEVELOPMENT OF A LOW PRESSURE AREA OVER SOUTHEAST AS AROUND 19TH AND FURTHER INTENSIFICATION INTO DEPRESSION OVER SOUTHEAST & ADJOINING EASTCENTRAL AS DURING SUBSEQUENT 24-48 HOURS AND WEST-NORTHWESTWARDS MOVEMENT TOWARDS GULF OF ADEN. MODELS LIKE NCUM AND NEPS ARE INDICATING FORMATION OF DEPRESSION AROUND 23RD. GFS GR HOWEVER, ALL THE MODELS ARE UNANIMOUS ABOUT WEST-NORTHWESTWARDS MOVEMENT OF THE SYSTEM TOWARDS GULF OF ADEN.

CONSIDERING ALL THE ABOVE, A LOW PRESSURE AREA IS LIKELY TO FORM OVER CENTRAL PARTS OF SOUTH ARABIAN SEA AROUND 19TH NOVEMBER, 2020. IT IS VERY LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION OVER CENTRAL PARTS OF SOUTH ARABIAN SEA AND ADJOINING CENTRAL AS DURING SUBSEQUENT 48 HOURS.




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IMD, DELHI

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

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