



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 13.11.2021

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0700 UTC OF 13.11.2021 BASED ON 0300 UTC OF 13.11.2021.

BAY OF BENGAL:

(A): A LOW PRESSURE AREA HAS FORMED OVER SOUTH ANDAMAN SEA & ADJOINING THAILAND COAST AT 0300 UTC OF TODAY, THE 13TH NOVEMBER

YESTERDAY'S CYCLONIC CIRCULATION OVER GULF OF THAILAND AND NEIGHBOURHOOD CONCENTRATED INTO A LOW PRESSURE AREA OVER SOUTH ANDAMAN SEA & ADJOINING THAILAND COAST AT 0300 UTC OF TODAY THE 13TH, NOVEMBER 2021. IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION OVER NORTH ANDAMAN SEA & ADJOINING SOUTHEAST BAY OF BENGAL BY 15TH NOVEMBER. THEN IT IS LIKELY TO CONTINUE TO MOVE WEST-NORTHWESTWARDS, INTENSIFY FURTHER AND REACH NEAR ANDHRA PRADESH COAST AROUND 18TH NOVEMBER.

(B): LOW PRESSURE AREA OVER NORTH INTERIOR TAMILNADU BECAME LESS MARKED

THE LOW PRESSURE AREA OVER NORTH INTERIOR TAMILNADU AND NEIGHBOURHOOD BECAME LESS MARKED AT 0000 UTC OF TODAY, THE 13TH NOVEMBER, 2021.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTHWEST AND SOUTH BAY OF BENGAL, ANDAMAN SEA AND TENASSERIM COAST. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER CENTRAL BAY OF BENGAL AND WEAK TO MODERATE CONVECTION LAY OVER NORTHEAST BAY OF BENGAL.

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	LOW	HIGH	HIGH	HIGH

ARABIAN SEA:

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHEAST ARABIAN SEA AND COMORIN. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER SOUTH PARTS OF EASTCENTRAL ARABIAN SEA AND SOUTHWEST 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	NIL	NIL	NIL

REMARKS:

SEA SURFACE TEMPERATURE (SST) IS ABOUT 29-30°C OVER SOUTHEAST BOB AND ANDAMAN SEA. TROPICAL CYCLONE HEAT POTENTIAL (TCHP) IS ABOUT 100-120 KJ/CM² OVER PARTS OF EASTERN EQUATORIAL INDIAN OCEAN AND ADJOINING SOUTHEAST BOB & SOUTH ANDAMAN SEA. MADDEN JULIAN OSCILLATION INDEX IS IN PHASE 4 WITH AMPLITUDE CLOSE TO 1. IT WILL CONTINUE IN SAME PHASE WITH AMPLITUDE REMAINING CLOSE TO 1. THE POSITIVE LOW LEVEL VORTICITY HAS INCREASED DURING PAST 24 HOURS AND IS ABOUT ($100 \times 10^{-6} \text{ S}^{-1}$) OVER SOUTH ANDAMAN SEA & ADJOINING THAILAND COAST WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. AN EAST- WEST ORIENTED EXTENDED ZONE OF POSITIVE LOW LEVEL CONVERGENCE OF $20 \times 10^{-5} \text{ S}^{-1}$ LAY OVER SOUTH ANDAMAN SEA & ADJOINING THAILAND. THE POSITIVE UPPER LEVEL DIVERGENCE IS AROUND $30 \times 10^{-5} \text{ S}^{-1}$ OVER SOUTH ANDAMAN SEA AND ADJOINING THAILAND. WIND SHEAR IS LOW (05-15 KT) OVER ANDAMAN SEA, GULF OF THAILAND AND CENTRAL BOB. UNDER THESE FAVOURABLE SEA AND ENVIRONMENTAL CONDITIONS A LOW PRESSURE AREA HAS FORMED OVER SOUTH ANDAMAN SEA AND ADJOINING THAILAND COAST.

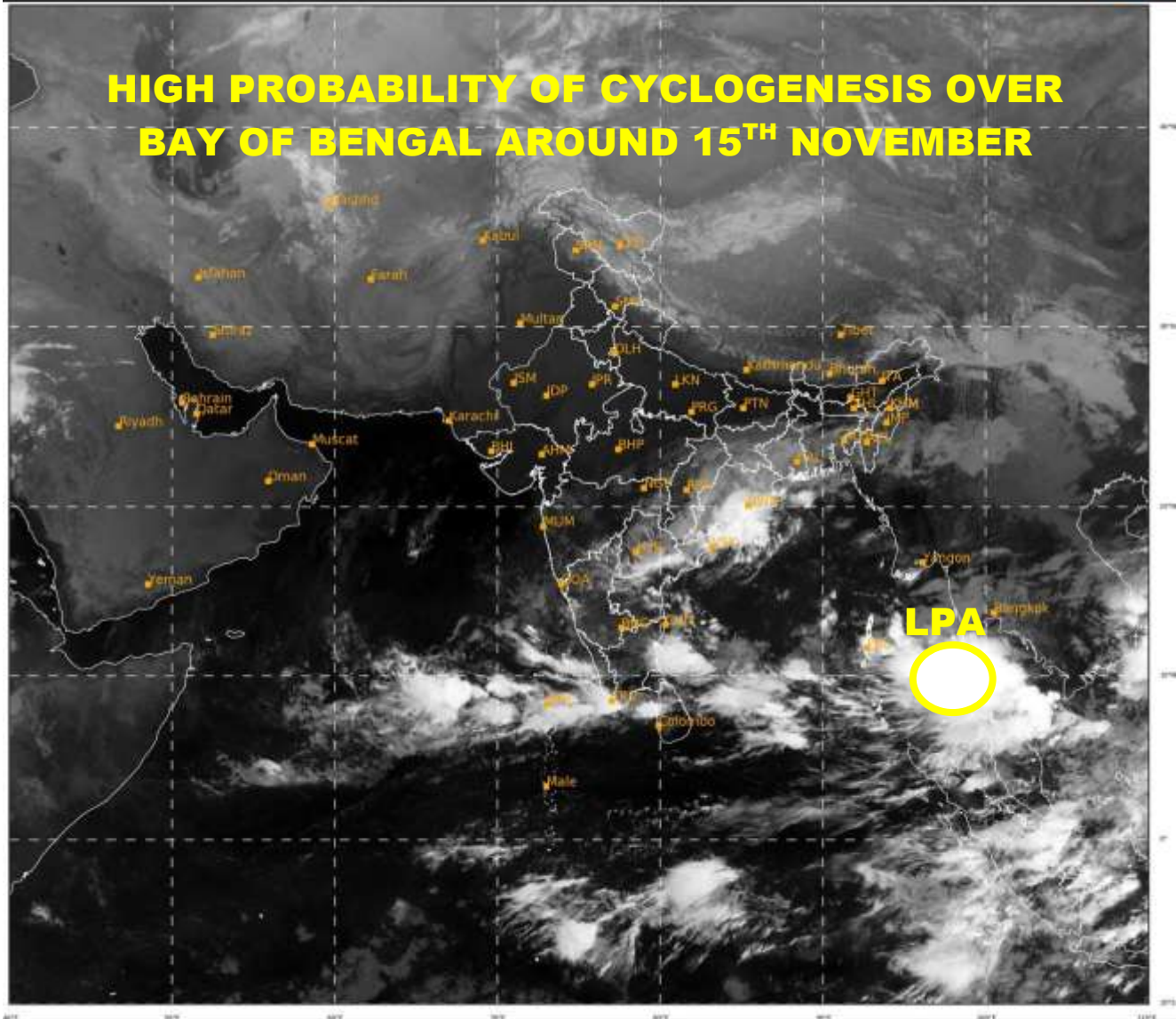
MOST OF THE MODELS ARE INDICATING THAT THE LOW PRESSURE AREA OVER ANDAMAN SEA WOULD MOVE WEST-NORTHWESTWARDS, CONCENTRATE INTO A DEPRESSION OVER NORTH ANDAMAN SEA AROUND 15TH NOVEMBER AND REACH ANDHRA PRADESH COAST AROUND 18TH. HOWEVER, THERE IS LARGE VARIATION AMONG VARIOUS MODELS W.R.T. INTENSIFICATION OF SYSTEM. IMD GFS & NCUM ARE INDICATING INTENSIFICATION OF SYSTEM INTO CYCLONIC STORM AND ECMWF & NCEP GFS ARE INDICATING INTENSIFICATION UPTO DEPRESSION STAGE.

IN VIEW OF ALL THE ABOVE, THE LOW PRESSURE AREA OVER SOUTH ANDAMAN SEA AND ADJOINING THAILAND IS LIKELY TO MOVE WEST-NORTHWESTWARDS, CONCENTRATE INTO A DEPRESSION OVER NORTH ANDAMAN SEA & ADJOINING SOUTHEAST BAY OF BENGAL BY 15TH NOVEMBER, INTENSIFY FURTHER AND REACH NEAR ANDHRA PRADESH COAST AROUND 18TH NOVEMBER.

NEXT MESSAGE WILL BE ISSUED AT 0600 UTC OF 14TH NOVEMBER, 2021.



HIGH PROBABILITY OF CYCLOGENESIS OVER BAY OF BENGAL AROUND 15TH NOVEMBER



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IMD, DELHI

LPA: LOW PRESSURE AREA