



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 19.11.2021

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0800 UTC OF 19.11.2021 BASED ON 0600 UTC OF 19.11.2021.

BAY OF BENGAL:

SUB: DEPRESSION WEAKENED INTO WELL MARKED LOW PRESSURE AREA OVER NORTH INTERIOR TAMIL NADU AND ADJOINING KARNATAKA AND RAYALSEEMA

THE DEPRESSION OVER NORTH TAMIL NADU MOVED WEST-NORTHWESTWARDS AND WEAKENED INTO A WELL MARKED LOW PRESSURE AREA OVER NORTH INTERIOR TAMIL NADU AND ADJOINING KARNATAKA AND RAYALASEEMA AT 0600 UTC OF TODAY, THE 19TH NOVEMBER 2021. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-NORTHWESTWARDS AND WEAKEN FURTHER GRADUALLY DURING NEXT 24 HOURS.

AS PER SATELLITE IMAGERY AT 0600 UTC, SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER NORTH TAMILNADU AND SOUTHEAST KARNATAKA. MINIMUM CLOUD TOP TEMPERATURE (CTT) IS MINUS 70°C.

THIS IS LAST UPDATE IN ASSOCIATION WITH THIS SYSTEM.

ARABIAN SEA:

SUB: WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL ARABIAN SEA

THE WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL ARABIAN SEA PERSISTED OVER THE SAME REGION AT 0600 UTC OF TODAY, THE 19TH NOVEMBER. IT IS LIKELY TO CONCENTRATE INTO A DEPRESSION OVER THE SAME REGION DURING NEXT 24 HOURS.

AS PER SATELLITE IMAGERY AT 0600 UTC, INTENSITY OF THE SYSTEM IS CHARACTERIZED AS T 1.0. SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER EASTCENTRAL ARABIAN SEA BETWEEN LATITUDE 13.5N & 17.5N AND LONGITUDE 67.0E & 70.5E. MINIMUM CTT HAS REDUCED AND IS AROUND MINUS 90°C. INTENSE CONVECTIIVE CLOUD MASS IS SHEARED TO THE SOUTH OF THE SYSTEM CENTRE.

SEA CONDITION WOULD BE ROUGH TO VERY ROUGH OVER EASTCENTRAL ARABIAN SEA DURING NEXT 48 HOURS.

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 IS ABOUT 100X10⁻⁶ S⁻¹ OVER EASTCENTRAL ARABIAN SEA TO THE SOUTH OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. POSITIVE LOW LEVEL CONVERGENCE IS

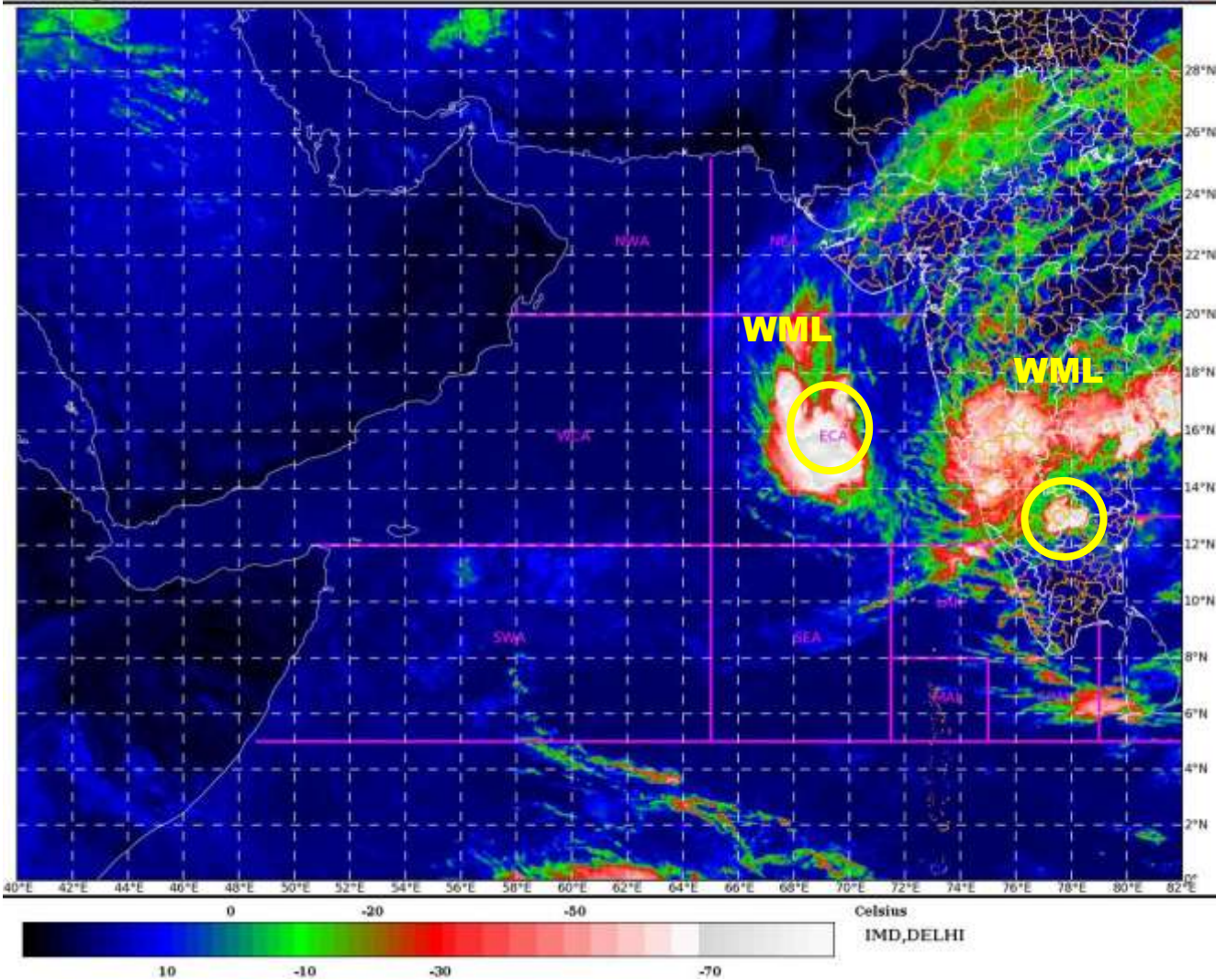
ABOUT $10 \times 10^{-5} \text{ S}^{-1}$ TO THE SOUTHEAST OF SYSTEM CENTRE. POSITIVE UPPER LEVEL DIVERGENCE IS ABOUT $05 \times 10^{-5} \text{ S}^{-1}$ OVER THE SYSTEM AREA. WIND SHEAR IS LOW TO MODERATE (15-20 KT) OVER EASTCENTRAL ARABIAN SEA OVER THE SYSTEM AREA. IT IS GRADUALLY INCREASING OVER AREAS TO THE WEST OF SYSTEM CENTRE.

SOME OF THE MODELS (IMD GFS & ECMWF) ARE INDICATING MARGINAL INTENSIFICATION OF SYSTEM OVER EASTCENTRAL AS WITH VERY SLOW WEST-SOUTHWESTWARD MOVEMENT DURING NEXT 3-4 DAYS TOWARDS SOUTHWEST ARABIAN SEA.

UNDER THESE CONDITIONS, THE WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL ARABIAN SEA IS LIKELY TO CONCENTRATE INTO A DEPRESSION OVER THE SAME REGION DURING NEXT 24 HOURS.

NEXT MESSAGE WILL BE ISSUED AT 0600 UTC OF 20TH NOVEMBER, 2021.

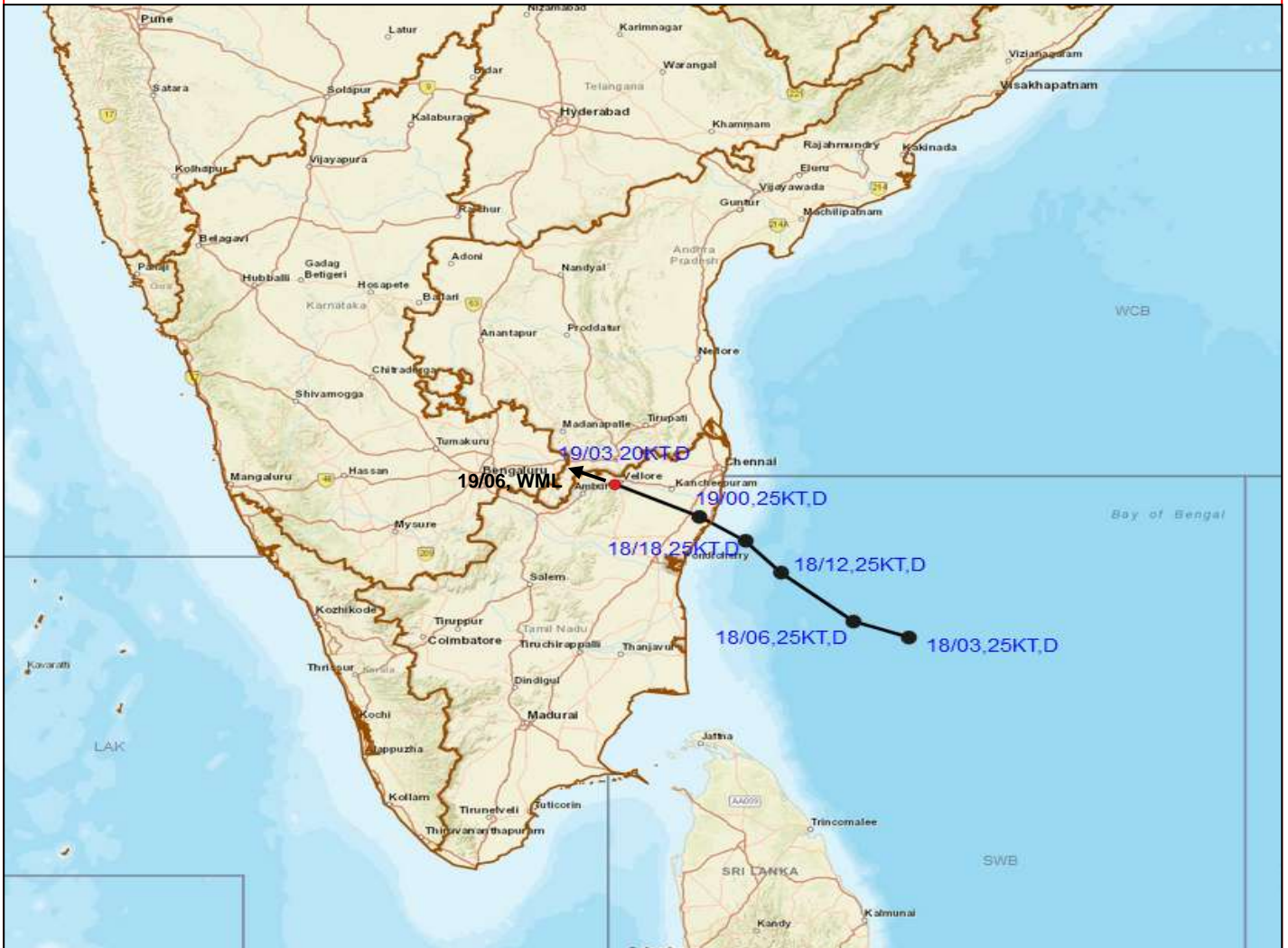
(R.K.JENAMANI)
SCIENTIST-F, RSMC, NEW DELHI



WML: WELL MARKED LOW PRESSURE AREA



OBSERVED TRACK OF DEPRESSION OVER BAY OF BENGAL DURING 18th -19th NOVEMBER, 2021



<p>DATE/TIME IN UTC IST=UTC + 0530 L: LOW PRESSURE AREA WML: WELL MARKED LOW PRESSURE AREA D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT) SCS: SEVERE CYCLONIC STORM (48-63KT) VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT) ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT) SuCS: SUPER CYCLONIC STORM (≥ 120 KT)</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 20px;"></td> <td>LESS THAN 34 KT</td> </tr> <tr> <td style="text-align: center;"></td> <td>34-47 KT</td> </tr> <tr> <td style="text-align: center;"></td> <td>≥ 48 KT</td> </tr> <tr> <td style="text-align: center;"></td> <td>OBSERVED TRACK</td> </tr> <tr> <td style="text-align: center;"></td> <td>FORECAST TRACK</td> </tr> <tr> <td style="text-align: center;"></td> <td>CONE OF UNCERTAINTY</td> </tr> </table>		LESS THAN 34 KT		34-47 KT		≥ 48 KT		OBSERVED TRACK		FORECAST TRACK		CONE OF UNCERTAINTY
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