



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 11.11.2021

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2000 UTC OF 11.11.2021 BASED ON 1800 UTC OF 11.11.2021.

SUB: DEPRESSION OVER NORTH COASTAL TAMIL NADU

THE DEPRESSION OVER NORTH COASTAL TAMIL NADU MOVED WEST-NORTHWESTWARDS WITH A SPEED OF 10 KMPH DURING PAST 06 HOURS AND LAY CENTRED AT 2330 HRS IST OF TODAY, THE 12TH NOVEMBER 2021, OVER NORTH COASTAL TAMIL NADU, NEAR LAT. 13.1°N AND LONG. 79.8°E, ABOUT 40 KM EAST-SOUTHEAST OF CHENNAI(43279). IT IS VERY LIKELY TO MOVE WEST-NORTHWESTWARDS AND WEAKEN GRADUALLY INTO A WELL MARKED LOW PRESSURE AREA BY 0000UTC OF 12TH NOVEMBER.

AS PER INSAT 3D IMAGERY AT 1800UTC, ASSOCIATED BROKEN LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH TAMIL NADU, SOUTH INTERIOR KARNATAKA, RAYALSEEMA, SOUTH COASTAL ANDHRA PRADESH AND ADJOINING WEST CENTRAL BAY OF BENGAL, SOUTHWEST & ADJOINING WESTCENTRAL BAY OF BENGAL. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELCIUS.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS 1000 HPA.

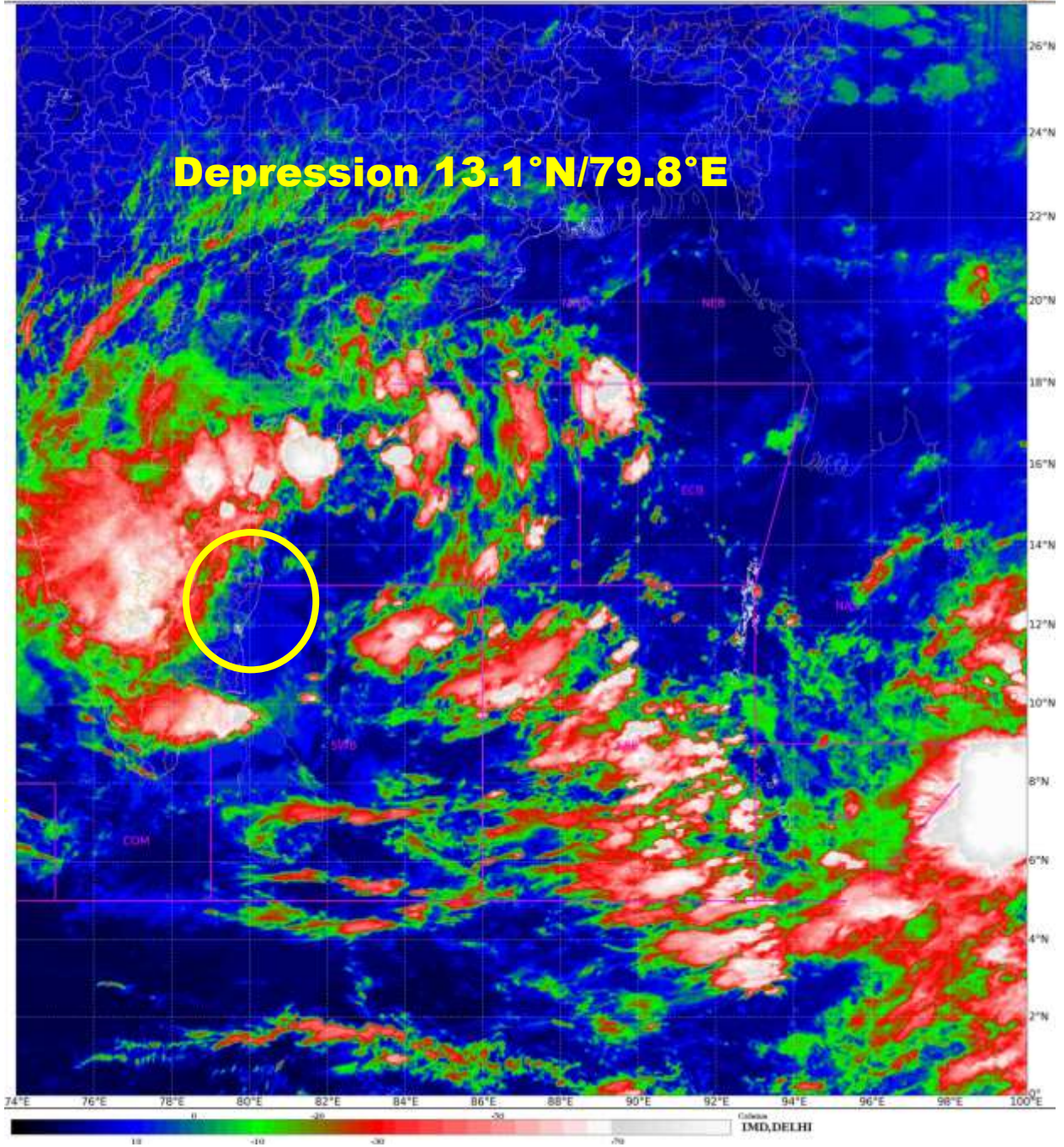
REMARKS:

SEA SURFACE TEMPERATURE (SST) IS ABOUT 29-30°C OVER SOUTHWEST & ADJOINING WESTCENTRAL BOB. TROPICAL CYCLONE HEAT POTENTIAL (TCHP) IS ABOUT 80-100 KJ/CM² OVER THE SYSTEM REGION. POSITIVE LOW LEVEL VORTICITY IS ABOUT (100 X10⁻⁶ S⁻¹) AROUND THE SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. POSITIVE LOW LEVEL CONVERGENCE HAS DECREASED AND IS AROUND 10 X10⁻⁵ S⁻¹ SOUTH OF THE AROUND SYSTEM CENTRE. THE POSITIVE UPPER LEVEL DIVERGENCE IS AROUND 05-10 X10⁻⁵ S⁻¹ TO THE NORTHWEST OF SYSTEM CENTRE. WIND SHEAR IS HIGH (>20 KT) OVER TAMILNADU-ANDHRA PRADESH. IN ASSOCIATION WITH ABOVE UNFAVOURABLE ENVIRONMENTAL CONDITIONS AND LAND INTERACTIONS THE SYSTEM WILL WEAKEN GRADUALLY DURING NEXT 06 HOURS. THE UPPER TROPOSPHERIC RIDGE RUNS ALONG 15°N OVER BOB. HENCE, THE SYSTEM WOULD BE STEERED WEST-NORTHWESTWARDS UNDER THE INFLUENCE OF EAST-SOUTHEASTERLY WINDS PREVAILING IN THE SOUTHERN PERIPHERY OF UPPER TROPOSPHERIC RIDGE.

(B) LIKELY FORMATION OF FRESH LOW PRESSURE AREA OVER SOUTH ANDAMAN SEA AND NEIGHBOURHOOD

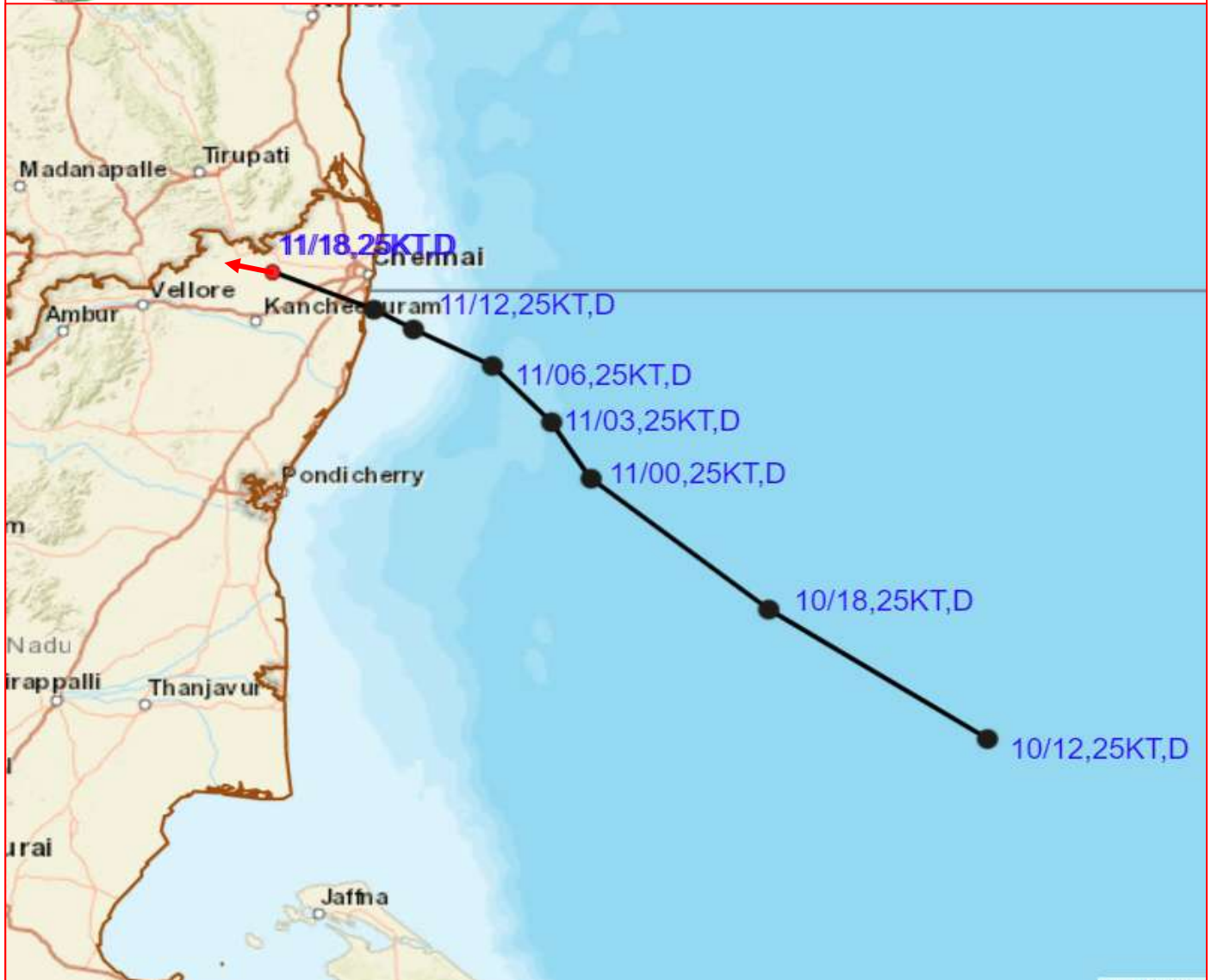
A FRESH LOW PRESSURE AREA IS LIKELY TO FORM OVER SOUTH ANDAMAN SEA AND NEIGHBOURHOOD AROUND 13TH NOVEMBER. IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND BECOME MORE MARKED DURING SUBSEQUENT 48 HOURS.

(SHASHI KANT)
SCIENTIST-C, RSMC, NEW DELHI





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTH COASTAL TAMILNADU BASED ON 1800 UTC OF 11TH NOVEMBER, 2021



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)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY