



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 02.04.2021

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0300 UTC OF 03.04.2021 BASED ON 0000 UTC OF 03.04.2021.

BAY OF BENGAL:

THE DEPRESSION OVER NORTH ANDAMAN SEA & NEIGHBOURHOOD MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 14 KMPH DURING PAST 06 HOURS AND LAY CENTRED AT 0000 UTC OF 03RD APRIL, 2021 NEAR LATITUDE 13.0°N AND LONGITUDE 97.5°E, ABOUT 540 KM EAST-NORTHEAST OF PORT BLAIR (43333), AND 440 KM SOUTH-SOUTHEAST OF YANGON (48097). IT IS LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 06 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
03.04.21/0000	13.0/97.5	40-50 GUSTING TO 60	DEPRESSION
03.04.21/1200	13.7/97.7	25-35 GUSTING TO 45	LOW

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 20 KNOTS GUSTING TO 25 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTER. THE ESTIMATED CENTRAL PRESSURE IS 1002 HPA.

AS PER INSAT-3D IMAGERY AT 0000 UTC OF 03RD APRIL, THE INTENSITY OF THE SYSTEM IS CI 1.5. ASSOCIATED TD BROKEN LOW TO MEDIUM CLOUDS WITH EMBEDDED ISOLATED MODERATE TO INTENSE CONVECTION LAY OVER NORTH ANDAMAN SEA AND ADJOINING ANDAMAN ISLANDS TO THE NORTH OF LAT 11.5N. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 44 DEG C, SEEN IN THE NORTHWEST SECTOR. CONVECTION AND STRUCTURE OF THE SYSTEM HAS WEAKENED VERY FAST DURING LAST 6 HRS.

REMARKS:

THE LOW LEVEL POSITIVE VORTICITY HAS REDUCED AND IS ABOUT 50 – 60 $\times 10^{-6} \text{SEC}^{-1}$ OVER ANDAMAN SEA TO THE SOUTHEAST OF THE SYSTEM CENTRE. THE MAGNITUDE OF POSITIVE LOW LEVEL CONVERGENCE OVER THE SYSTEM AREA HAS ALSO REDUCED DURING PAST 06 HOURS ($5-10 \times 10^{-5} \text{SEC}^{-1}$) AND IS NOW

SEEN ALONG MYANMAR COAST TO THE NORTHEAST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE HAS BEEN REPLACED BY CONVERGENCE ($05-10 \times 10^{-5} \text{ SEC}^{-1}$) DURING PAST 06 HOURS LEADING TO SUBSIDENCE OVER THE SYSTEM AREA. VERTICAL WIND SHEAR (VWS) HAS INCREASED AND IS NOW MODERATE (15-20 KTS) OVER NORTH ANDAMAN SEA. THE MID-LATITUDE WESTERLIES IN ASSOCIATION WITH AN UPPER TROPOSPHERIC TROUGH ROUGHLY ALONG 80 DEG. E HAS DISSOLVED THE UPPER TROPOSPHERIC RIDGE RAN ALONG 13°N OVER THE BOB. UNDER THE INFLUENCE OF THE ANTICYCLONIC CIRCULATION OVER SOUTHEAST ASIA AND THE MID TROSPHERIC WESTERLIES THE DEPRESSION WOULD MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST. THE ADVERSE ENVIRONMENTAL CONDITIONS ARE CAUSING THE SYSTEM TO WEAKEN RAPIDLY.

CONSIDERING ALL THESE, THE DEPRESSION OVER NORTH ANDAMAN SEA IS LIKELY TO TO MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 06 HOURS.

NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 03RD APRIL 2021.

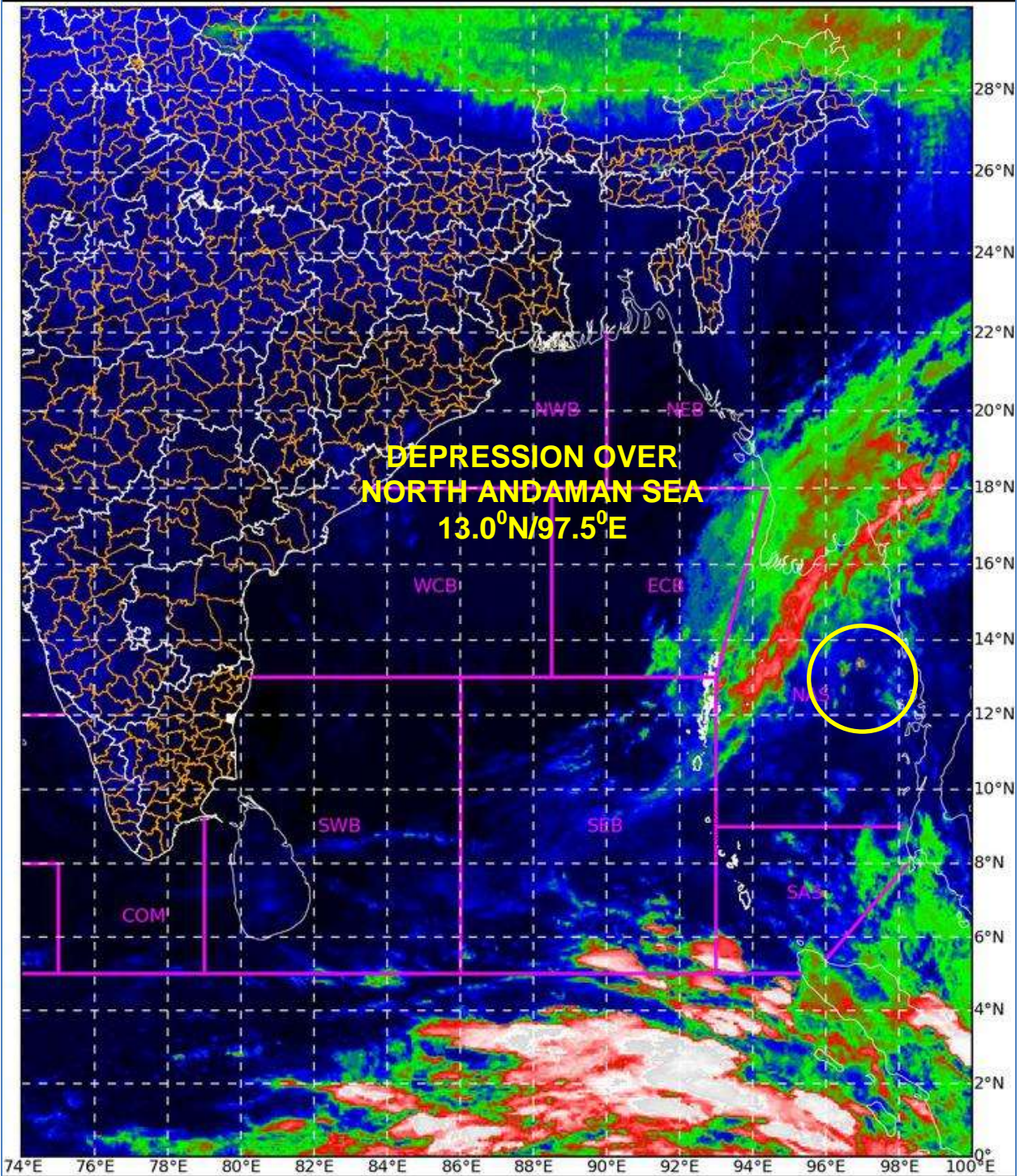
(SUNITHA DEVI)
SCIENTIST- F
RSMC NEW DELHI

SAT : INSAT-3D IMG 03-04-2021/(0100 to 0126) GMT

IMG_TIR1_TEMP 10.8 um 03-04-2021/(0630 to 0656) IST

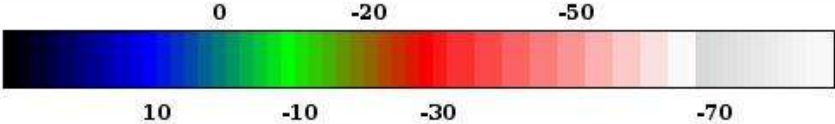


L1C Mercator



**DEPRESSION OVER
NORTH ANDAMAN SEA
13.0°N/97.5°E**

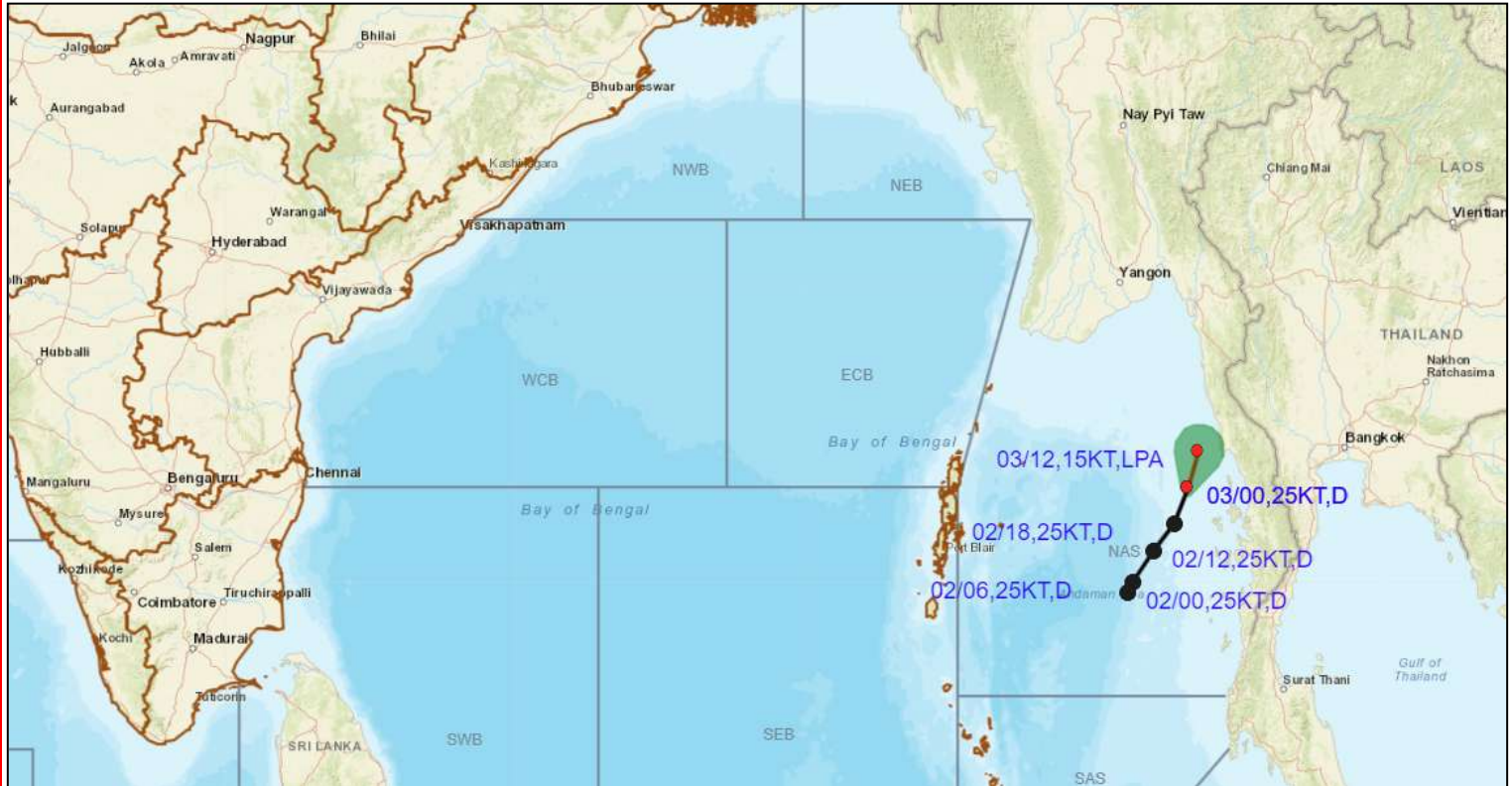
74°E 76°E 78°E 80°E 82°E 84°E 86°E 88°E 90°E 92°E 94°E 96°E 98°E 100°E



Celsius
IMD, DELHI



OBSERVED TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTH ANDAMAN SEA BASED ON 0000 UTC OF 3rd APRIL, 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 (≥ 20 KT)

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