



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 03.04.2021**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 03.04.2021 BASED ON 0300 UTC OF 03.04.2021.**

**BAY OF BENGAL:**

THE DEPRESSION OVER NORTH ANDAMAN SEA & NEIGHBOURHOOD MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 12 KMPH DURING PAST 06 HOURS AND LAY CENTRED AT 0300 UTC OF TODAY, THE 03<sup>RD</sup> APRIL, 2021 OVER NORTH ANDAMAN SEA OFF SOUTH MYANMAR COAST NEAR LATITUDE 13.2°N AND LONGITUDE 97.6°E, ABOUT 550 KM EAST-NORTHEAST OF PORT BLAIR (43333), AND 420 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 OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF SOUTH MYANMAR COAST 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
03.04.21/0300	13.2/97.6	40-50 GUSTING TO 60	DEPRESSION
03.04.21/1200	13.7/97.8	25-35 GUSTING TO 45	LOW

THE ESTIMATED MAXIMUM SUSTAINED WIND (MSW) 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 0300 UTC OF 03<sup>RD</sup> APRIL, THE CLOUDS SHOW DISORGANISATION. HOWEVER, LOW LEVEL CLOUDS INDICATE, LOW LEVEL CYCLONIC CIRCULATION. THE MULTISATELLITE BASED DERIVED WINDS INDICATE MSW OF 20-25 KTS AROUND THE SYSTEM CENTRE. WINDS ARE HIGHER IN THE SOUTHERN SECTOR. THE LATEST SCATTEROMETER BASED WINDS ARE ALSO ESTIMATED TO BE AROUND 20-25 KTS. THUS, THOUGH THE CLOUDS SHOW DISORGANISATION, BASED ON THE INTENSITY OF WINDS PREVAILING OVER THE REGION, THE INTENSITY HAS BEEN CHARACTERISED AS T 1.0/C.I. 1.5.

ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH ANDAMAN SEA BETWEEN LATITUDE 12.0N & 15.0N AND LONGITUDE 93.5E & 97.5E. MINIMUM CLOUD TOP

TEMPERATURE IS MINUS 78 DEG C. CONVECTION HAS SLIGHTLY INCREASED IN WEST SECTOR OF THE SYSTEM CENTRE DURING LAST 3 HOURS.

**REMARKS:**

THE LOW LEVEL POSITIVE VORTICITY 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 IS AROUND 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 TO HIGH (20-25 KTS) OVER NORTH ANDAMAN SEA AND ADJOINING SOUTH MYANMAR COAST. THE MID-LATITUDE WESTERLIES IN ASSOCIATION WITH AN UPPER TROPOSPHERIC TROUGH ROUGHLY ALONG 80 DEG. E HAS DISSOLVED THE UPPER TROPOSPHERIC RIDGE OVER THE BOB. UNDER THE INFLUENCE OF THE ANTICYCLONIC CIRCULATION OVER SOUTHEAST ASIA AND THE MID TROSPHERIC WESTERLIES THE DEPRESSION WOULD CONTINUE TO MOVE NORTH-NORTHEASTWARDS TOWARDS SOUTH MYANMAR COAST. THE ADVERSE ENVIRONMENTAL CONDITIONS LIKE HIGH VERTICAL WIND SHEAR, SUBSIDENCE OVER THE SYSTEM AREA, DECREASED VORTICITY AND DECREASED CONVERGENCE OVER THE SYSTEM AREA ARE CAUSING THE SYSTEM TO WEAKEN RAPIDLY.

CONSIDERING ALL THESE, THE DEPRESSION OVER NORTH ANDAMAN SEA OFF SOUTH MYANMAR COAST IS LIKELY TO MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA OVER NORTH ANDAMAN SEA AND ADJOINING SOUTH MYANMAR COAST DURING NEXT 12 HOURS.

NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 03<sup>RD</sup> APRIL 2021.

(SUNITHA DEVI)  
SCIENTIST- F  
RSMC NEW DELHI



SAT : INSAT-3D IMG

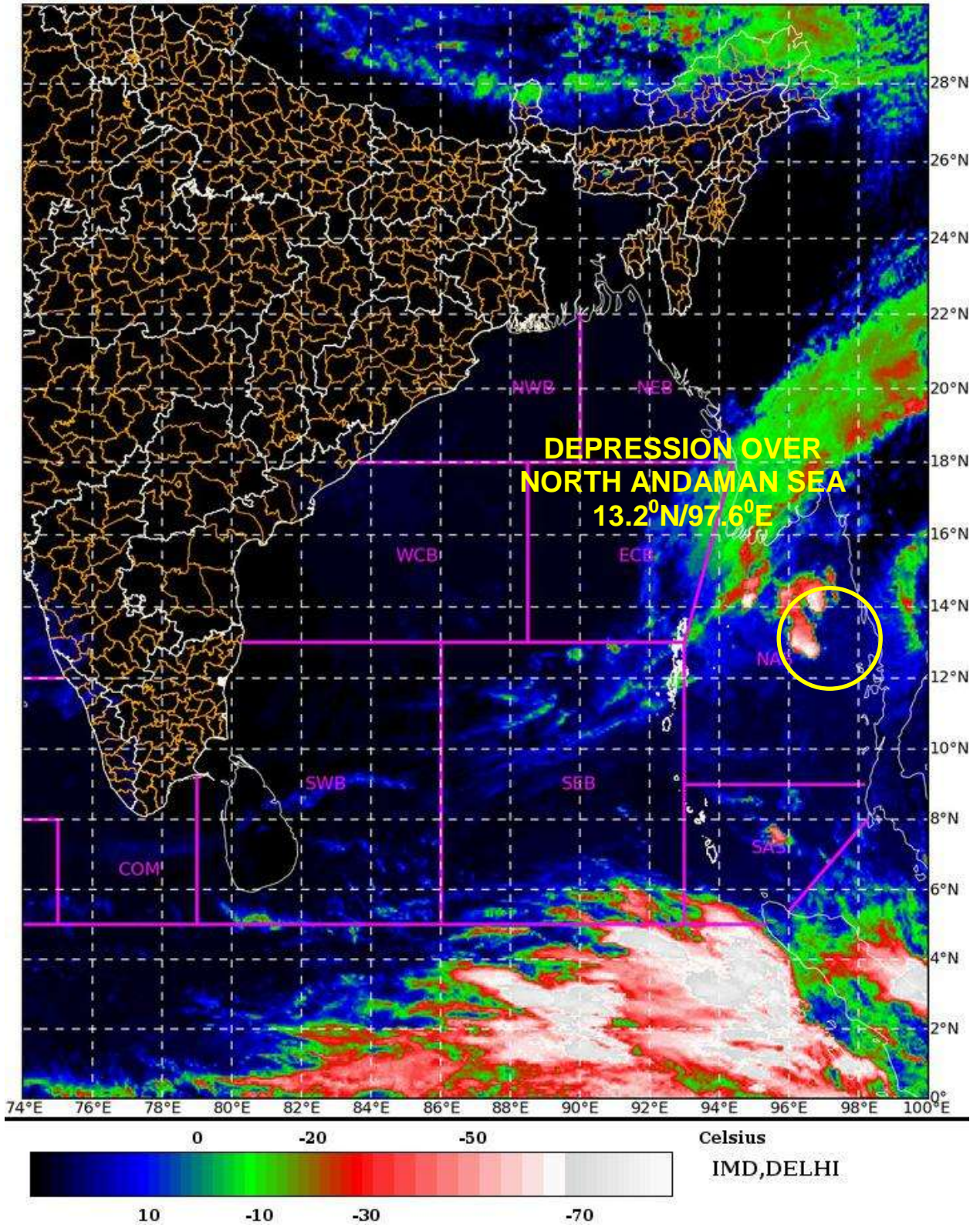
03-04-2021/(0500 to 0526) GMT

IMG\_TIR1\_TEMP 10.8 um

03-04-2021/(1030 to 1056) IST



L1C Mercator





# OBSERVED TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTH ANDAMAN SEA OFF SOUTH MYANMAR COAST BASED ON 0300 UTC OF 3<sup>rd</sup> 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 ( $\geq 20$  KT)

● LESS THAN 34 KT

○ 34-47 KT

○  $\geq 48$  KT

— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY