



**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 1430 UTC OF 02.04.2021 BASED ON 1200 UTC OF 02.04.2021.

BAY OF BENGAL:

THE DEPRESSION OVER NORTH ANDAMAN SEA & NEIGHBOURHOOD MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 13 KMPH DURING PAST 06 HOURS AND LAY CENTRED AT 1200 UTC OF TODAY, THE 02ND APRIL, 2021 NEAR LATITUDE 11.8°N AND LONGITUDE 96.8°E, ABOUT 450 KM EAST-NORTHEAST OF PORT BLAIR (43333), 470 KM NORTH-NORTHWEST OF PHUKET (48564) AND 550 KM SOUTH-SOUTHEAST OF YANGON (48097). IT IS LIKELY TO MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST.

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
02.04.21/1200	11.8/96.8	45-55 GUSTING TO 65	DEPRESSION
03.04.21/0000	12.5/97.2	45-55 GUSTING TO 65	DEPRESSION
03.04.21/1200	13.3/97.5	40-50 GUSTING TO 60	DEPRESSION

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

AS PER INSAT-3D IMAGERY AT 1200 UTC OF 02ND APRIL, THE INTENSITY OF THE SYSTEM IS T 1.5. THE CONVECTION IS ORGANISED AS SHEAR PATTERN. CONVECTIVE CLOUDS CLUSTERS ARE SHEARED TO NORTH. THE THREE CLUSTERS MERGED INTO TWO AROUND 0900 UTC. OUT OF THESE TWO, THE NORTHERN CLUSTER DISSIPATED AND THE SOUTHERN CLUSTER MOVED NORTH-NORTHEASTWARDS MAINTAINING IT'S INTENSITY. THE AREA OF VERY INTENSE CONVECTION (-93°C) LAY OVER NORTH ANDAMAN SEA & GULF OF MARTABAN TO THE NORTH OF SYSTEM CENTER. BROKEN LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH ANDAMAN SEA AND ADJOINING ANDAMAN ISLANDS BETWEEN LATITUDE 10.5°N & 17.0°N AND LONGITUDE 93.5°E & 97.5°E. MINIMUM CLOUD TOP TEMPERATURE IS -93°C.

REMARKS:

THE LOW LEVEL POSITIVE VORTICITY HAS INCREASED SLIGHTLY DURING PAST 06 HOURS AND IS ABOUT $100 \times 10^{-6} \text{SEC}^{-1}$ OVER ANDAMAN SEA TO THE SOUTHEAST OF THE SYSTEM CENTRE. THE MAGNITUDE OF POSITIVE LOW LEVEL CONVERGENCE OVER THE SYSTEM AREA REMAINED SAME DURING PAST 06 HOURS ($20 \times 10^{-5} \text{SEC}^{-1}$). THE POSITIVE UPPER LEVEL DIVERGENCE HAS DECREASED SLIGHTLY IN MAGNITUDE ($20 \times 10^{-5} \text{SEC}^{-1}$) DURING PAST 06 HOURS AND IT LAY OVER THE SYSTEM CENTRE. IT IS STILL COUPLED WITH THE LOW LEVEL CONVERGENCE ZONE. THE CIRUS OUTFLOW HAS INCREASED IN PAST 3-HOURS. VERTICAL WIND SHEAR (VWS) HAS DECREASED AND IS NOW LOW TO MODERATE (10-15 KTS) OVER NORTH ANDAMAN SEA AND ALONG THE FORECAST TRACK. THE UPPER TROPOSPHERIC RIDGE RAN ALONG 13°N OVER THE BOB. UNDER THE INFLUENCE OF THE ANTICYCLONIC CIRCULATION OVER SOUTHEAST ASIA AND MID TROSPHERIC WESTERLIES THE DEPRESSION WOULD MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST.

THE TROPICAL CYCLONE HEAT POTENTIAL OVER THE REGION IS AROUND 80 KJ PER SEC AND THE SEA SURFACE TEMPERATURES ARE 29-30 DEG.C OVER THE REGION.

A FEW MODELS ARE INDICATING ITS NORTH-NORTHEASTWARDS MOVEMENT TOWARDS MYANMAR COAST DURING NEXT 24 HOURS.

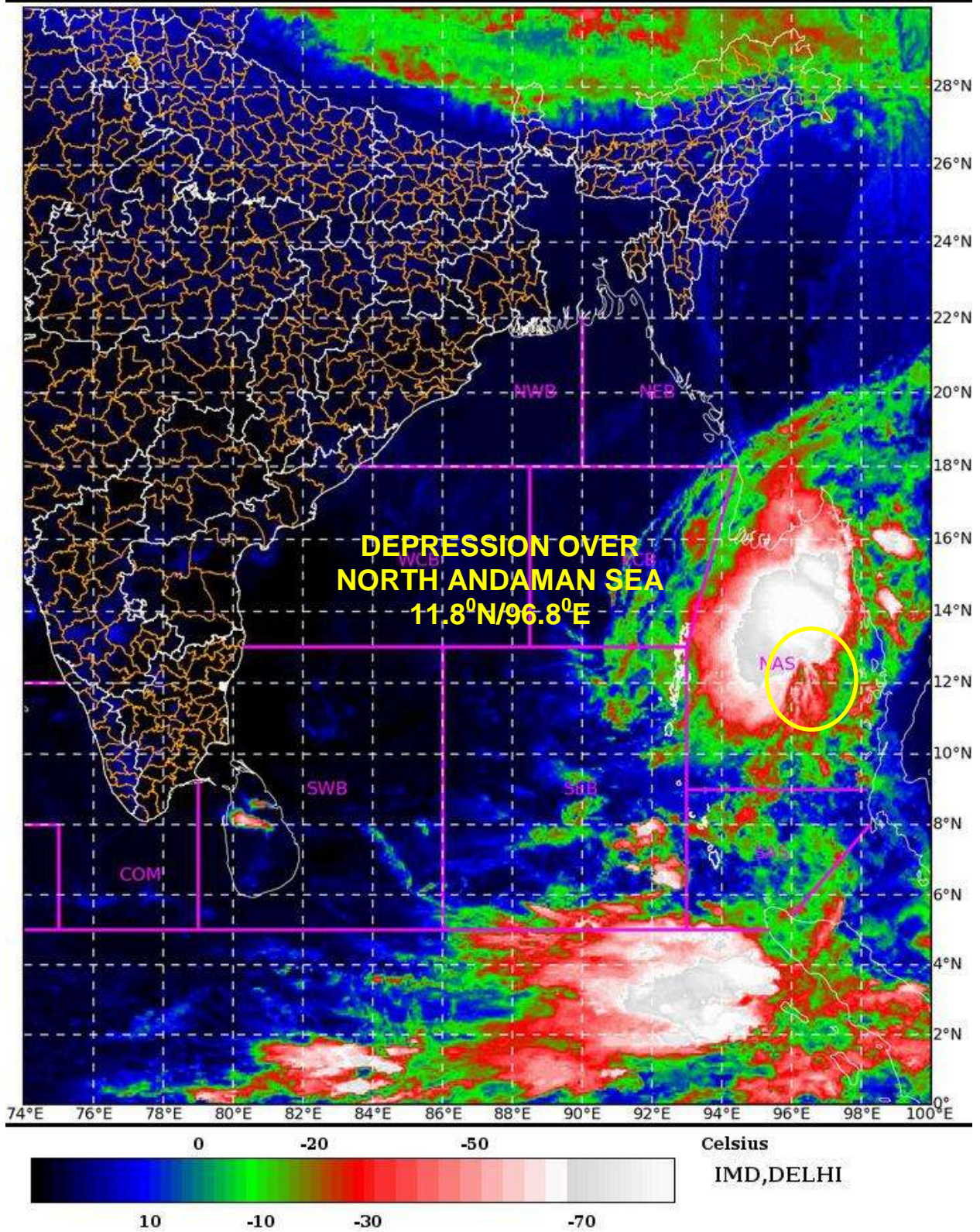
CONSIDERING ALL THESE, THE DEPRESSION OVER NORTH ANDAMAN SEA IS LIKELY TO TO MOVE NORTH-NORTHEASTWARDS TOWARDS MYANMAR COAST DURING NEXT 24 HOURS.

NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 02ND APRIL 2021.

(R. K. JENAMANI)
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L1C Mercator



OBSERVED TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTH ANDAMAN SEA BASED ON 1200 UTC OF 2ND 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 120 KT)

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