



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 15.05.2023

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 15.05.2023 BASED ON 0000 UTC OF 15.05.2023.

SUBJECT: CYCLONIC STORM "MOCHA" WEAKENED INTO A DEPRESSION OVER MYANMAR

THE **CYCLONIC STORM "MOCHA"** (PRONOUNCED AS "**MOKHA**") OVER MYANMAR MOVED EAST-NORTHEASTWARDS, RAPIDLY WEAKENED INTO A DEPRESSION AND LAY CENTRED AT 0000 UTC OF 15TH MAY OVER MYANMAR NEAR LATITUDE 23.9°N AND LONGITUDE 97.8°E ABOUT 660 KM NORTH EAST OF SITTWE (MYANMAR, 48062), 420 KM OF NORTH EAST OF NYAUNG-U (MYANMAR, 48049), 570 KM NORTH-NORTHEAST OF NAY PYI TAW (MYANMAR, 48117) AND 660 KM EAST-NORTHSEAST OF COX'S BAZAR (BANGLADESH, 41992). THE SYSTEM IS LIKELY TO WEAKENED INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT FEW HOURS.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTIO LAY OVER NORTH MYANMAR. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 55 DEG CELSIUS AND WEAK TO MODERATE CONVTN OVER NORTH EAST STATES & SOUTH EAST BANGLADESH.

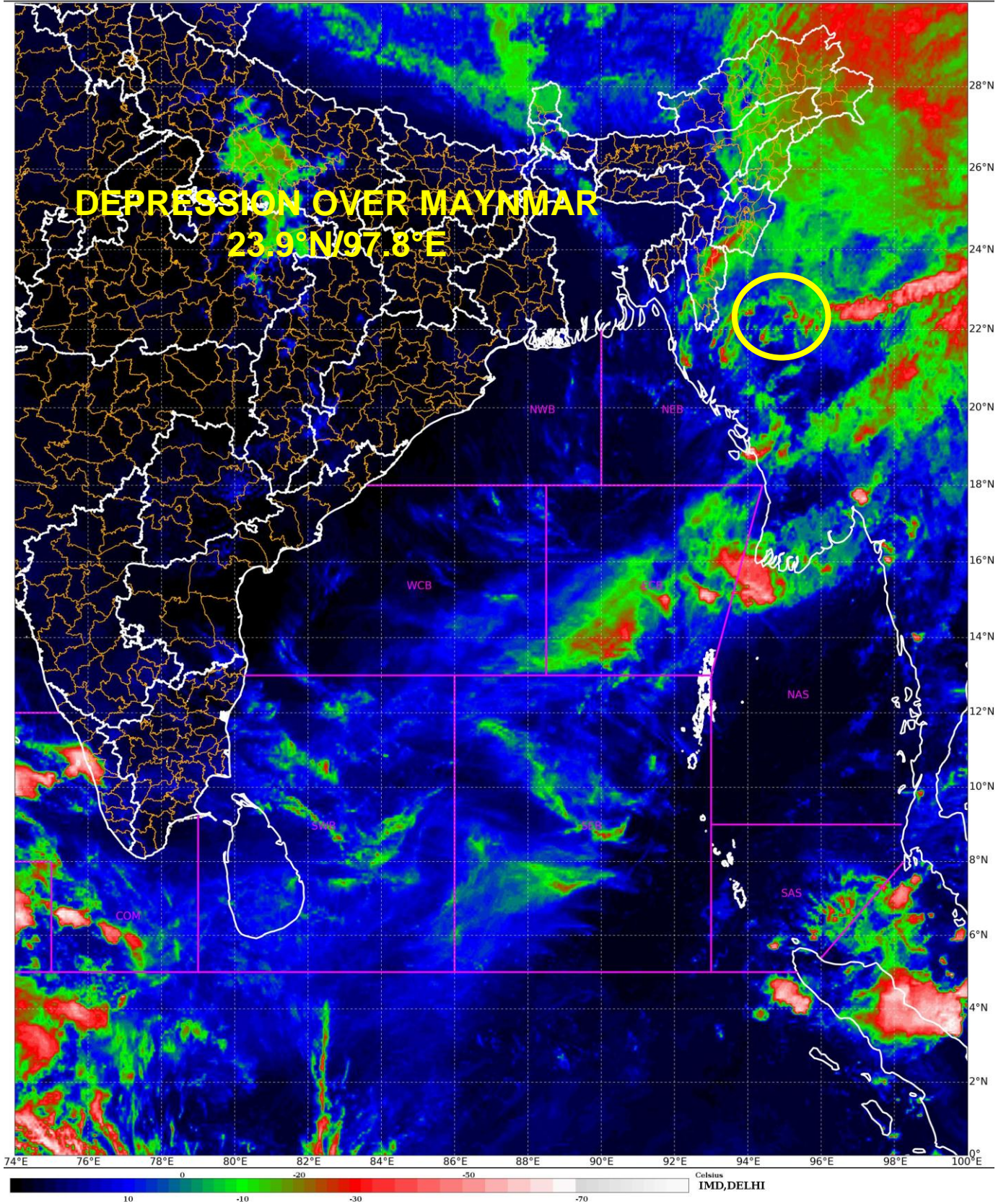
THE MAXIMUM SUSTAINED SURFACE WIND SPEED (MSW) IS 25 KNOTS GUSTING TO 30 KNOTS. THE ESTIMATED CENTRAL PRESSURE (ECP) IS ABOUT 1000 HPA.

REMARKS:

DUE TO RUGGED TERRAINS AND HIGH WIND SHEAR OVER MYANMAR, THE SYSTEM WOULD WEAKEN RAPIDLY DURING NEXT FEW HOURS BECOMING A WELL MARKED LOW PRESSURE AREA.

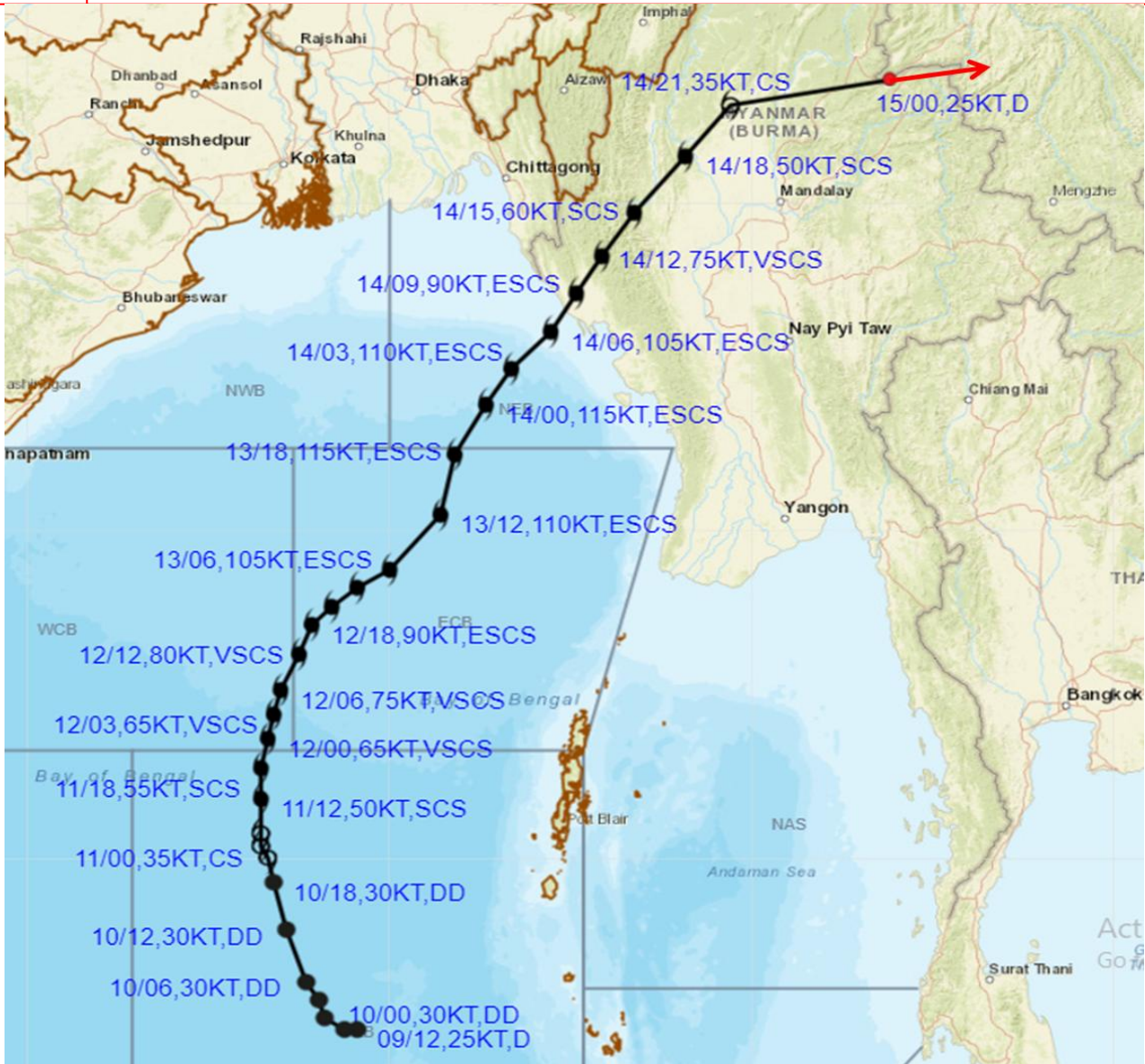
THE LOW LEVEL VORTICITY AT 850 HPA HAS REDUCED & IS AROUND $75 \times 10^{-6} \text{ S}^{-1}$ TO THE NORTH EAST OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVELS. LOW LEVEL CONVERGENCE HAS ALSO REDUCED AROUND $25 \times 10^{-5} \text{ S}^{-1}$ TO AROUND OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS AROUND $20-30 \times 10^{-5} \text{ S}^{-1}$ TO THE NORTHEAST OF SYTEM CENTRE. THE VERTICAL WIND SHEAR IS HIGH (30-40 KNOTS) OVER SYSTEM AREA AND IS INCREASING ALONG THE FORECAST TRACK. AS THE SYSTEM IS MOVING OVER RUGGED TERRAINS OF MYANMAR HILLS AND WIND SHEAR IS HIGH OVER THE REGION, WEAKENING OF THE SYSTEM INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT FEW HOURS.

(S. P SINGH)
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OBSERVED AND FORECAST TRACK OF DEPRESSION OVER MYANMAR BASED ON 0000 UTC OF 15TH MAY 2023.



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