REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

TROPICAL CYCLONE ADVISORY NO. 32

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 15.05.2023

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 32 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0000 UTC OF 15.05.2023 BASED ON 2100 UTC OF 14.05.2023

SUBJECT: SEVERE CYCLONIC STROM "MOCHA" WEAKENED INTO A CYCLONIC STORM OVER MYANMAR

THE **SEVERE CYCLONIC STORM "MOCHA"** (PRONOUNCED AS **"MOKHA")** OVER MYANMAR MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 43 KMPH DURING PAST 6 HOURS, WEAKENED INTO A CYCLONIC STORM AND LAY CENTRED AT 2100 UTC OF 14TH MAY OVER MYANMAR NEAR LATITUDE 23.5°N AND LONGITUDE 95.3°E ABOUT 450 KM NORTH-NORTHEAST OF SITTWE (MYANMAR, 48062), 260 KM OF NORTH-NORTHWEST OF NYAUNG-U (MYANMAR, 48049), 500 KM NORTH OF NAY PYI TAW (MYANMAR, 48117) AND 420 KM EAST-NORTHSEAST OF COX'S BAZAR (BANGLADESH, 41992).

THE SYSTEM IS CONTINUING THE WEAKENING TREND AND WILL BECOME A DEPRESSION AROUND 0600 UTC OF 15TH MAY.

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME (UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
14.05.23/2100	23.5/95.3	60-70 GUSTING TO 80	CYCLONIC STORM
15.05.23/0300	24.7/96.7	50-60 GUSTING TO 70	DEEP DEPRESSION

BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTIO LAY OVER NORTH MYANMAR. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 70 DEG CELSIUS AND WEAK TO MODERATE CONVTN OVER NORTH EAST STATES & EAST BANGLADESH.

THE MAXIMUM SUSTAINED SURFACE WIND SPEED (MSW) IS 35 KNOTS GUSTING TO 45 KNOTS. THE ESTIMATED CENTRAL PRESSURE (ECP) IS ABOUT 990 HPA.
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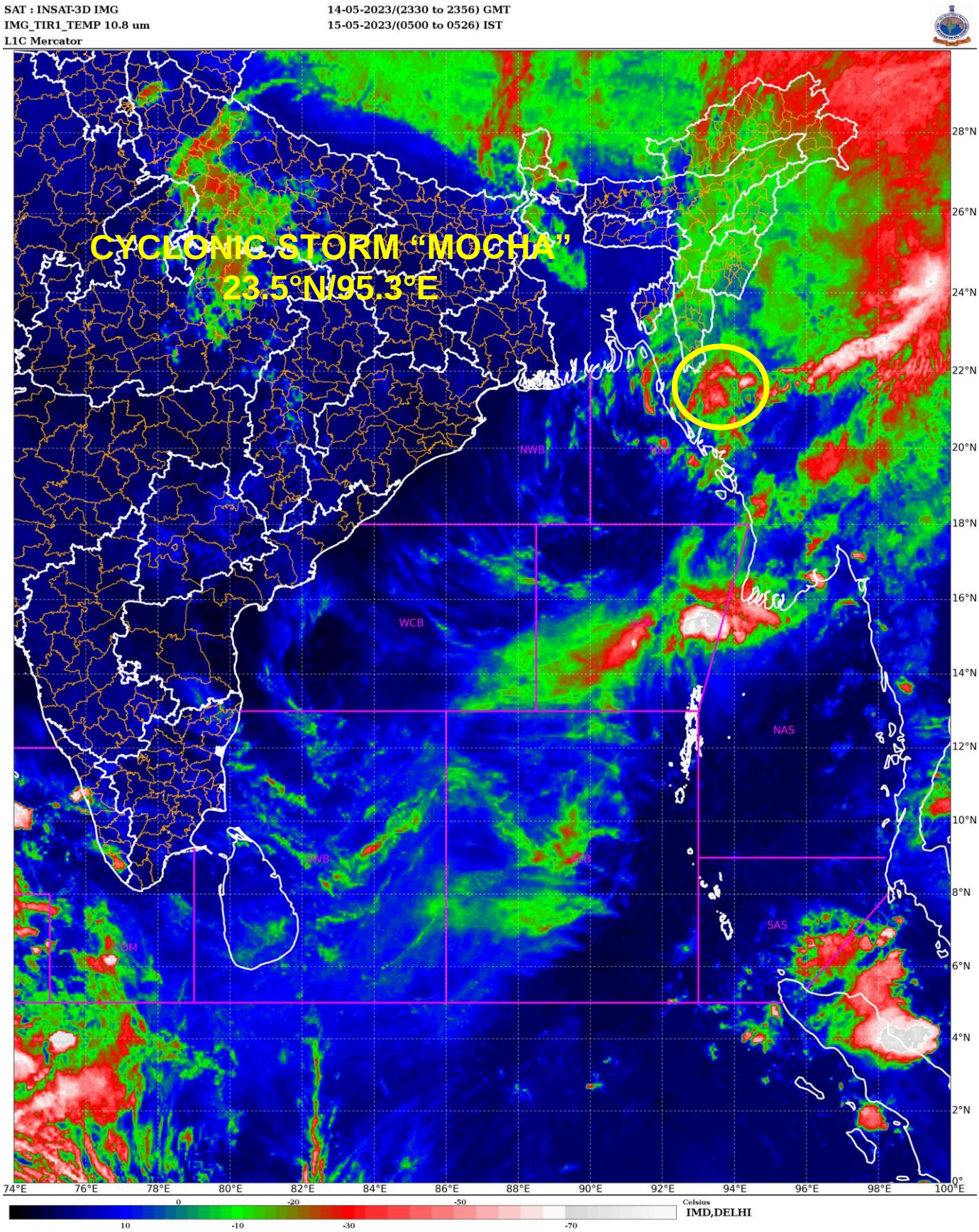
REMARKS:

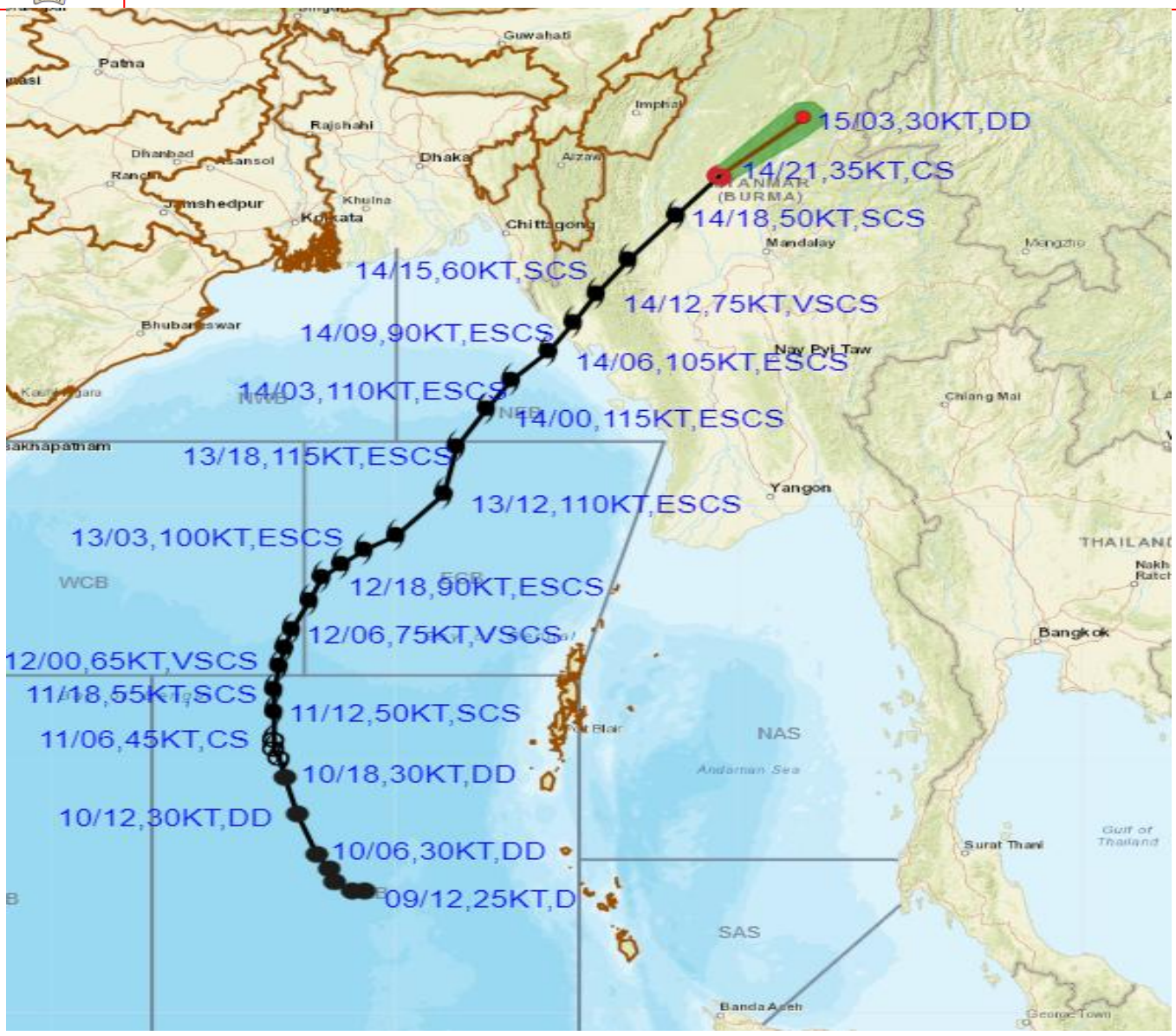
DUE TO RUGGED TERRAINS AND HIGH WIND SHEAR OVER MYANMAR, THE SYSTEM WOULD WEAKEN RAPIDLY DURING NEXT 06 HOURS BECOMING A DEPRESSION AROUND 0600 UTC OF 15^{TH} MAY.

THE LOW LEVEL VORTICITY AT 850 HPA HAS REDUCED & IS AROUND $100X10^{-6}$ S^{-1} TO THE SOUTH OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 200 HPA LEVELS. LOW LEVEL CONVERGENCE IS AROUND 60 $X10^{-5}$ S^{-1} TO THE SOUTHEAST OF SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS AROUND $40X10^{-5}S^{-1}$ 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 DEPRESSION IS LIKELY AROUND 0600 UTC OF 15^{TH} MAY.

(S. P SINGH)
SCIENTIST-C
RSMC NEW DELHI



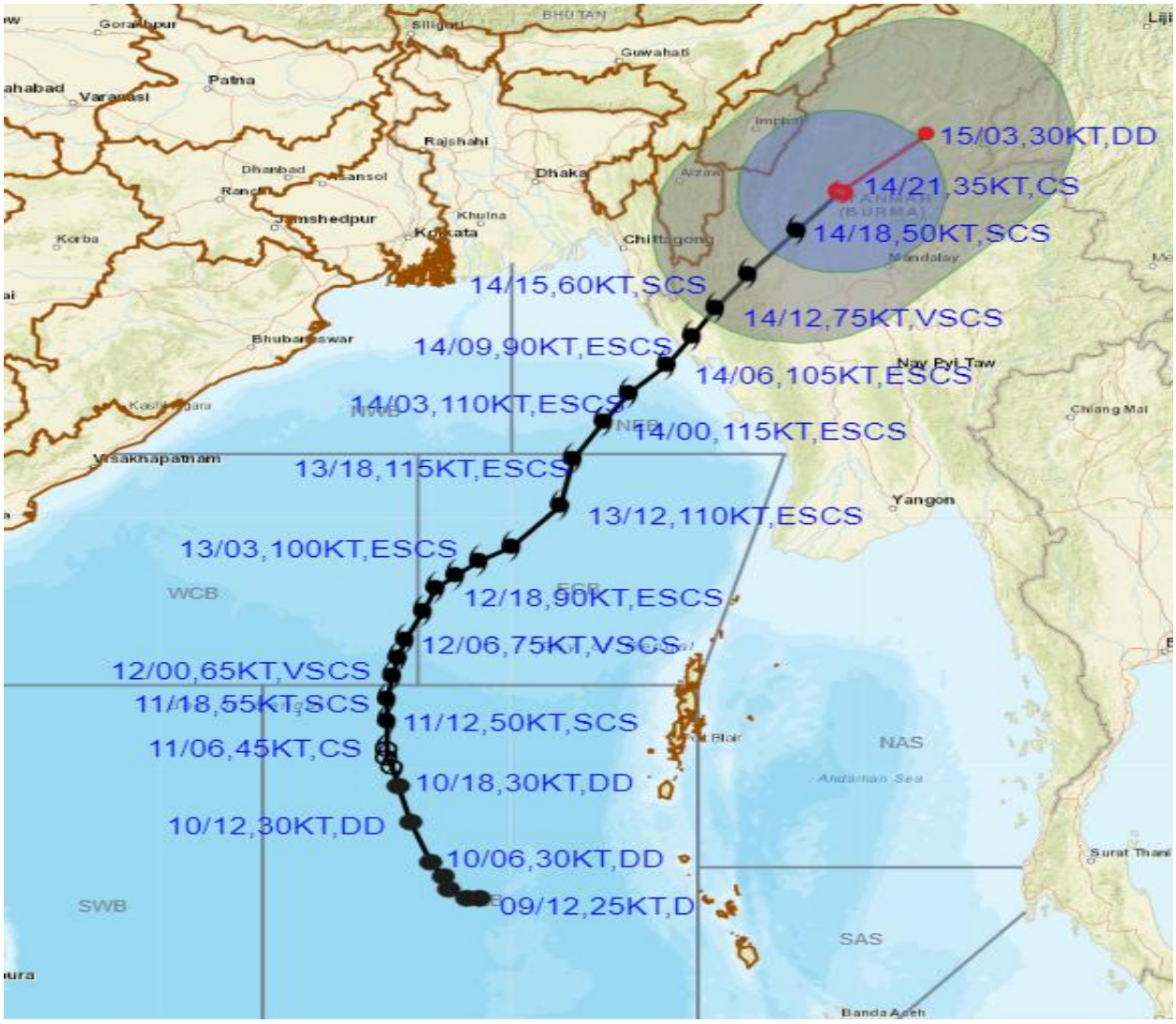
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 2100 UTC OF 14TH MAY 2023.



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 (≥ 120 KT)

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

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 2100 UTC OF 14TH MAY 2023.



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

AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations