



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 20.05.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0900 UTC OF 20.05.2022 BASED ON 0600 UTC OF 20.05.2022.

SUB: DEPRESSION OVER GULF OF MARTABAN CLOSE TO SOUTH MYANMAR COAST

THE DEPRESSION OVER GULF OF MARTABAN AND ADJOINING MYANMAR MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 8 KMPH DURING LAST 03 HOURS AND LAY CENTERED AT 0600 UTC OF TODAY, THE 20TH MAY, 2022 OVER GULF OF MARTABAN CLOSE TO SOUTH MYANMAR COAST NEAR LATITUDE 16.4°N AND LONGITUDE 97.4°E, ABOUT 20 KM WEST-SOUTHWEST OF MAWLAMYINE (48103), 140 KM EAST-SOUTHEAST OF YANGON (48097) AND 720 KM NORTHEAST OF PORT BLAIR (43333).

IT IS VERY LIKELY TO MOVE FURTHER NORTH-NORTHEASTWARDS AND CROSS SOUTH MYANMAR COAST AROUND MAWLAMYINE DURING NEXT FEW HOURS.

THE INTENSITY OF THE SYSTEM IS T1.5 WITH A WELL DEFINED CENTER IN VISIBLE IMAGE. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER GULF OF MARTABAN, ADJOINING SOUTH MYANMAR & NORTH ANDAMAN SEA, ADJOINING EASTCENTRAL BAY OF BENGAL AND ARAKAN COAST. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93⁰C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH OVER GULF OF MARTABAN, ADJOINING NORTH ANDAMAN SEA AND ALONG & OFF SOUTH MYANMAR COAST. THE ESTIMATED CENTRAL PRESSURE IS 1002 HPA.

REMARKS:

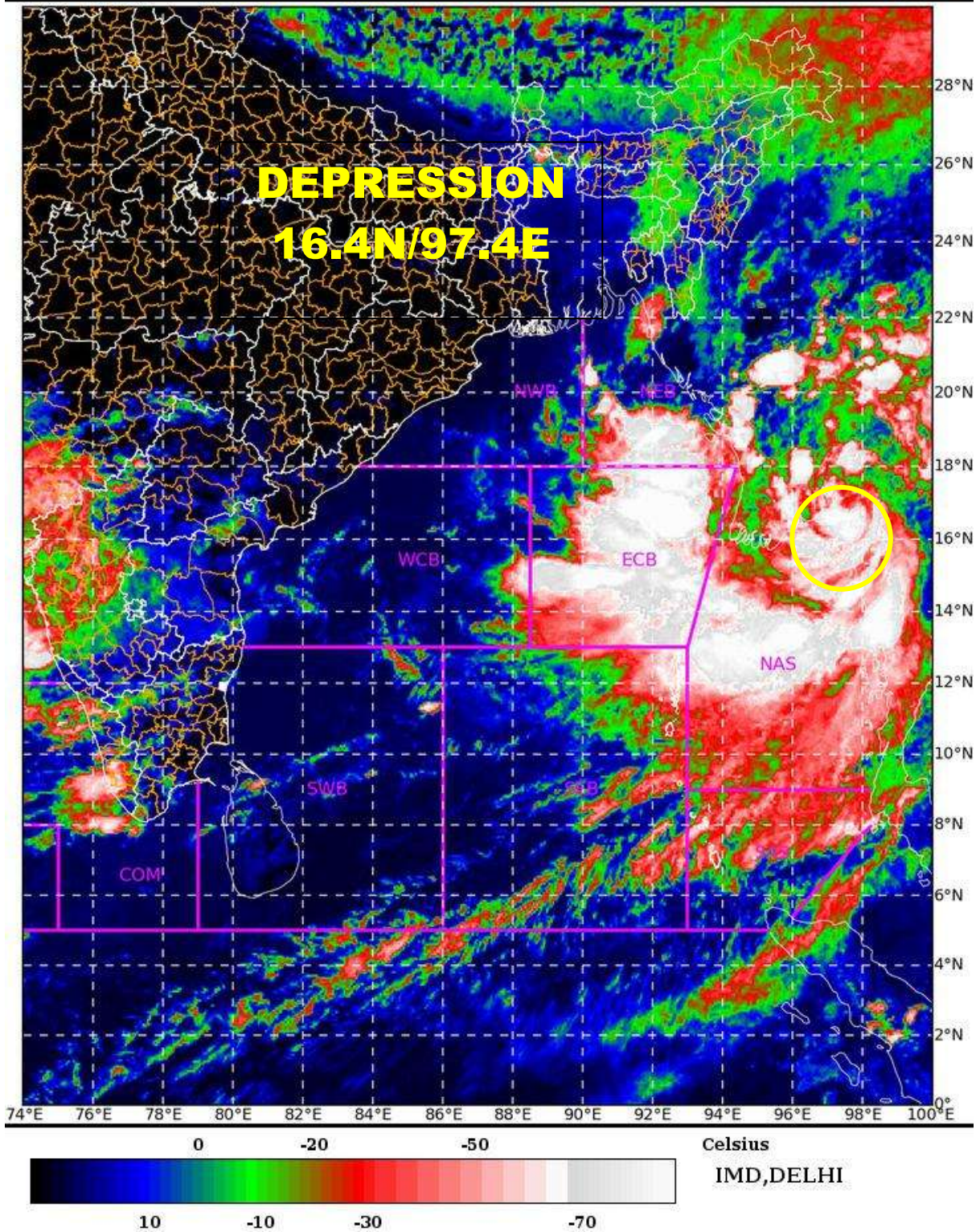
SEA SURFACE TEMPERATURE (SST) IS AROUND 29-30⁰C OVER ENTIRE BAY OF BENGAL WITH EVEN HIGHER TEMPERATURES OVER EASTCENTRAL BAY OF BENGAL (31-32⁰C) AND GULF OF MARTABAN. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM² OVER THE REGION AROUND SYSTEM CENTER. LOW LEVEL VORTICITY IS AROUND 100 X10⁻⁶ S⁻¹ NEAR THE SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 30 X10⁻⁵ S⁻¹ AND UPPER LEVEL DIVERGENCE IS AROUND 40 X10⁻⁵ S⁻¹ TO THE SOUTHWEST OF SYSTEM CENTRE. WIND SHEAR IS MODERATE (15-20 KNOTS) AROUND THE SYSTEM AREA. IT IS MODERATE (15-20 KNOTS) ALONG THE FORECAST TRACK OVER MYANMAR.

THE SYSTEM IS VERY CLOSE TO THE MYANMAR COAST AND THUS UNLIKELY TO INTENSIFY FURTHER. AS THE SYSTEM IS EMBEDDED IN THE SOUTHWESTERLY MONSOON WIND, IT IS VERY LIKELY TO MOVE NORTHEASTWARDS AND CROSS SOUTH MYANMAR COAST WITH SAME INTENSITY AS A DEPRESSION.

MOST OF THE NUMERICAL MODELS ARE IN GOOD AGREEMENT THAT THE SYSTEM IS UNLIKELY TO INTENSIFY FURTHER, WOULD MOVE NORTHEASTWARDS AND CROSS MYANMAR COAST WITHIN NEXT FEW HOURS.

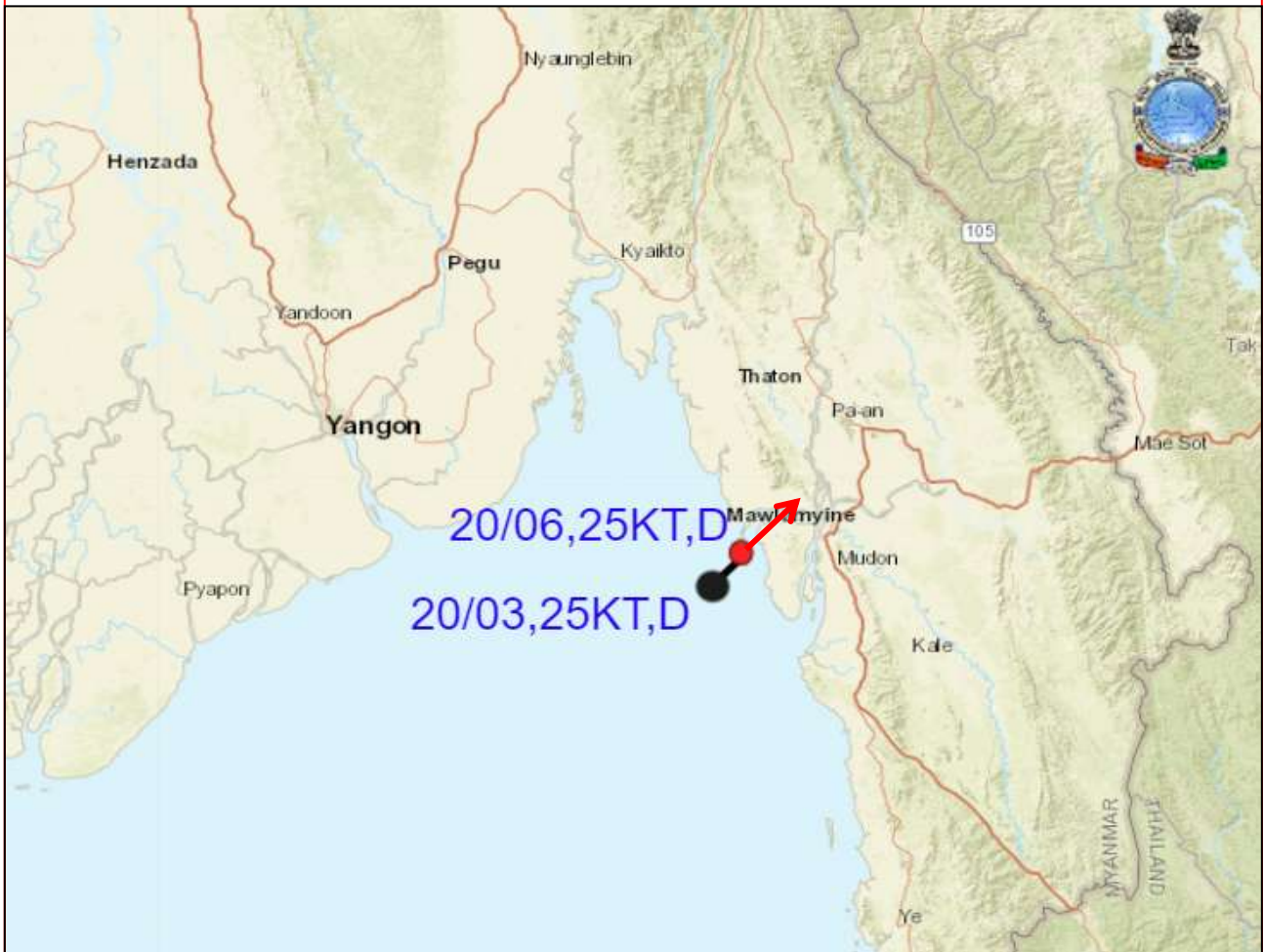
(M. SHARMA)
SCIENTIST-D
RSMC NEW DELHI

SAT : INSAT-3D IMG 20-05-2022/(0730 to 0756) GMT
IMG_TIR1_TEMP 10.8 um 20-05-2022/(1300 to 1326) IST
L1C Mercator





FORECAST TRACK OF DEPRESSION OVER GULF OF MARTABAN CLOSE TO MYANMAR COAST BASED ON 0600 UTC OF 20th MAY 2022

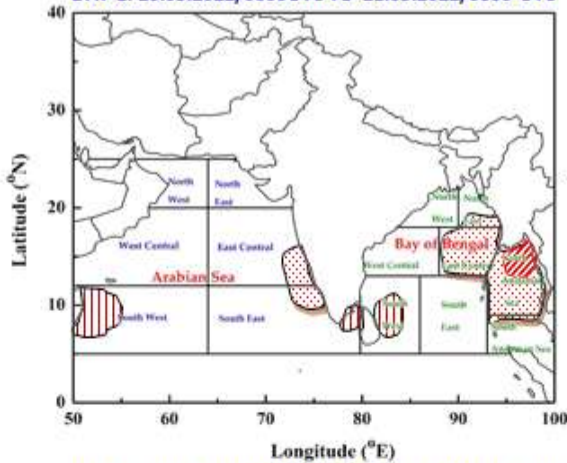


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

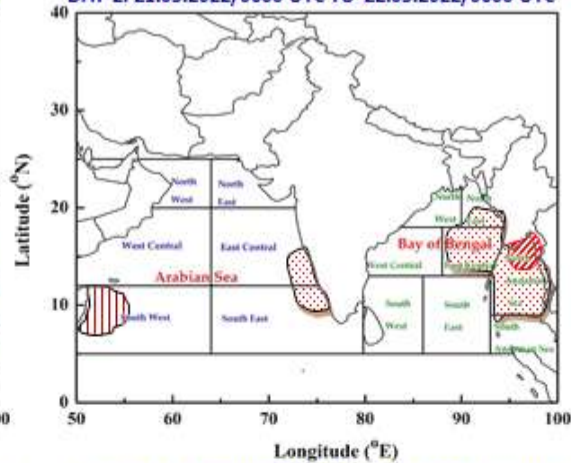
● LESS THAN 34 KT
⊙ 34-47 KT
⊙ \geq 48 KT
— OBSERVED TRACK
— FORECAST TRACK
▲ CONE OF UNCERTAINTY

INDIA METEOROLOGICAL DEPARTMENT
FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

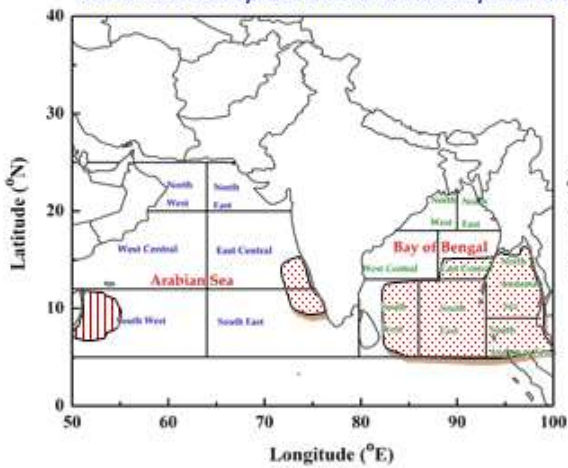
DAY-1: 20.05.2022/0600UTC TO 21.05.2022/0600 UTC



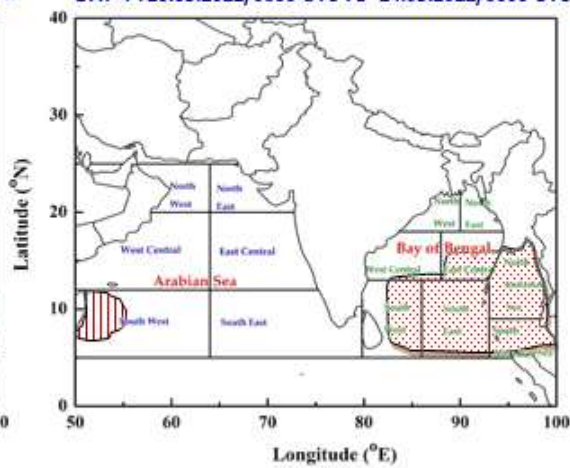
DAY-2: 21.05.2022/0600 UTC TO 22.05.2022/0600 UTC



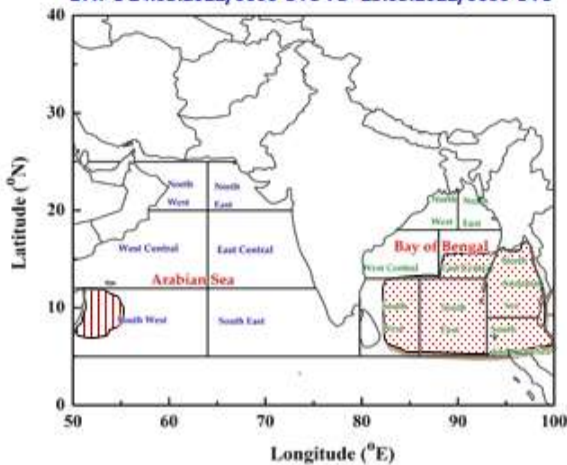
DAY-3: 22.05.2022/0600 UTC TO 23.05.2022/0600 UTC



DAY-4: 23.05.2022/0600 UTC TO 24.05.2022/0600 UTC



DAY-5 24.05.2022/0600 UTC TO 25.05.2022/0600 UTC



AREA UNDER FISHERMEN WARNING

- 40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
- 40-50 KMPH GUSTING TO 60 KMPH (STRONG WIND)
- 50-60 KMPH GUSTING TO 70 KMPH