



**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 0630 UTC OF 20.05.2022 BASED ON 0300 UTC OF 20.05.2022.

SUB: DEPRESSION OVER GULF OF MARTABAN AND ADJOINING MYANMAR COAST

UNDER THE INFLUENCE OF YESTERDAY'S CYCLONIC CIRCULATION OVER GULF OF MARTABAN AND ADJOINING MYANMAR, A **LOW PRESSURE AREA** FORMED OVER THE SAME REGION IN THE EVENING OF YESTERDAY WHICH BECAME A WELL MARKED LOW TODAY MORNING. IT CONCENTRATED INTO A DEPRESSION AND LAY CENTERED AT 0300 UTC OF TODAY, THE 20TH MAY, OVER THE SAME REGION NEAR LATITUDE 16.2°N AND LONGITUDE 91.3°E, ABOUT 40 KM SOUTHWEST OF MAWLAMYINE (48103), 140 KM EAST-SOUTHEAST OF YANGON (48097) AND 700 KM NORTHEAST OF PORT BLAIR (43333).

IT IS VERY LIKELY TO MOVE NORTHEASTWARDS AND CROSS SOUTH MYANMAR COAST AROUND MAWLAMYINE BY EVENING OF TODAY, THE 20TH MAY, 2022.

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 AND ADJOINING MYANMAR & NORTH ANDAMAN SEA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C. CONVECTION HAS FURTHER ORGANISED DURING PAST 3 HOURS OVER THE REGION

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 AND ADJOINING NORTH ANDAMAN SEA. 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. ASSOCIATED WITH THE SYSTEM 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 HIGH (30-40 KNOTS) TO SOUTH AND SOUTHEAST OF THE SYSTEM DUE TO ADVANCEMENT OF THE MONSOON BUT LIKELY TO REMAIN MODERATE (15-20 KNOTS) ALONG THE FORECAST TRACK OVER MYANMAR.

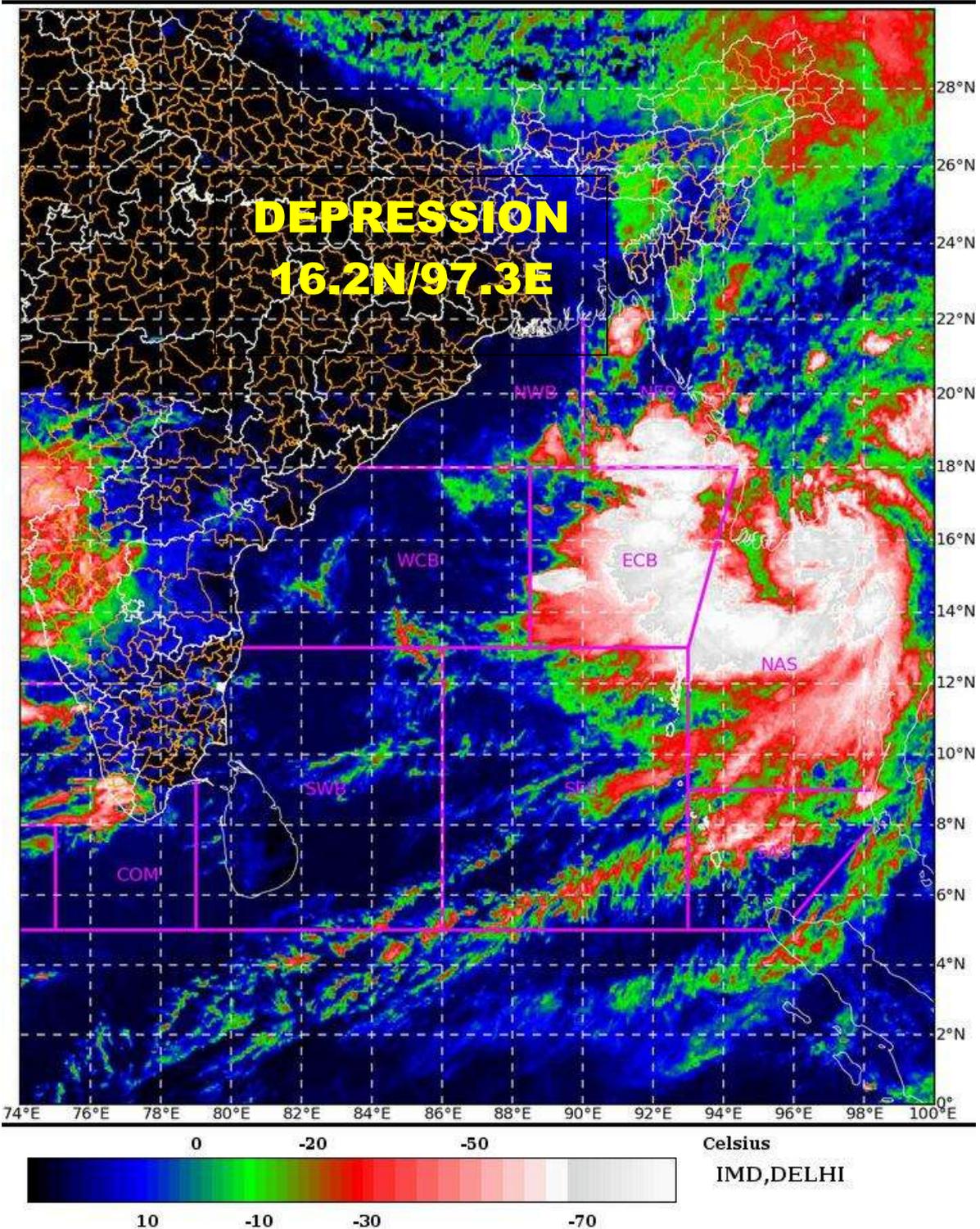
DUE TO ADVANCEMENT OF THE STRONG MONSOON SURGE OVER GULF OF MARTABAN, THE LOW PRESSURE AREA INTENSIFIED INTO A WELL MARKED LOW

PRESSURE AREA AND FURTHER CONCENTRATED INTO A DEPRESSION WITHIN 24 HOURS. THE SYSTEM IS VERY CLOSE TO THE MYANMAR COAST AND UNLIKELY TO INTENSIFY FURTHER. AS THE SYSTEM IS EMBEDDED IN THE SOUTHWESTERLY MONSOON WIND, IT IS VERY LIKELY TO MOVE NORTHEASTWARDS AND CROSS SOUTH MYNMAR 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.

(ANANDA KUMAR DAS)
SCIENTIST-E
RSMC NEW DELHI

SAT : INSAT-3D IMG 20-05-2022/(0530 to 0556) GMT
IMG_TIR1_TEMP 10.8 um 20-05-2022/(1100 to 1126) IST
L1C Mercator



FORECAST TRACK OF DEPRESSION OVER GULF OF MARTABAN AND ADJOINING MYANMAR BASED ON 0300 UTC OF 20th MAY 2022

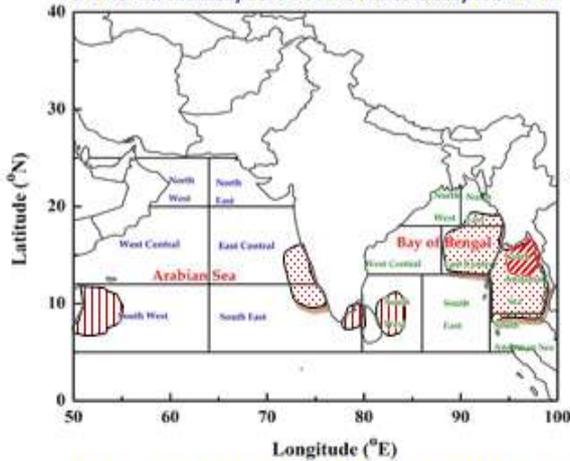


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

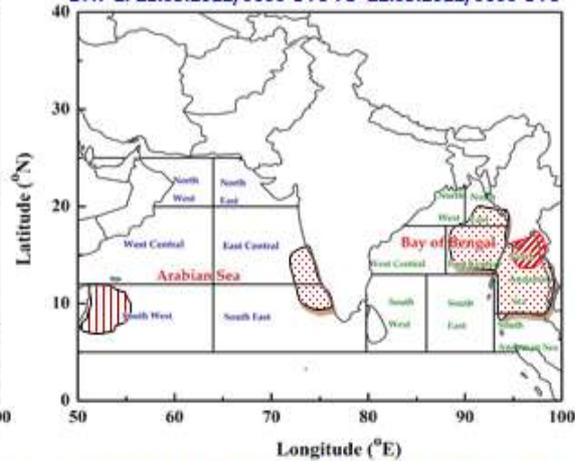
- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

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

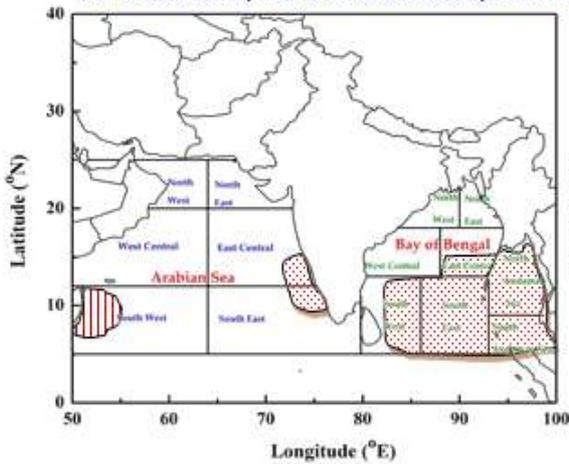
DAY-1: 20.05.2022/0600UTC TO 21.05.2022/0600 UTC



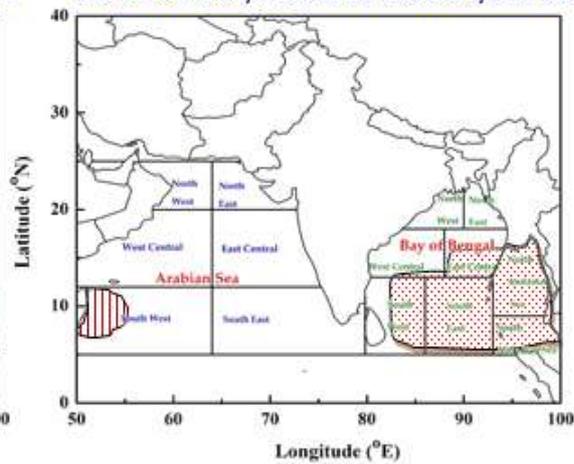
DAY-2: 21.05.2022/0600 UTC TO 22.05.2022/0600 UTC



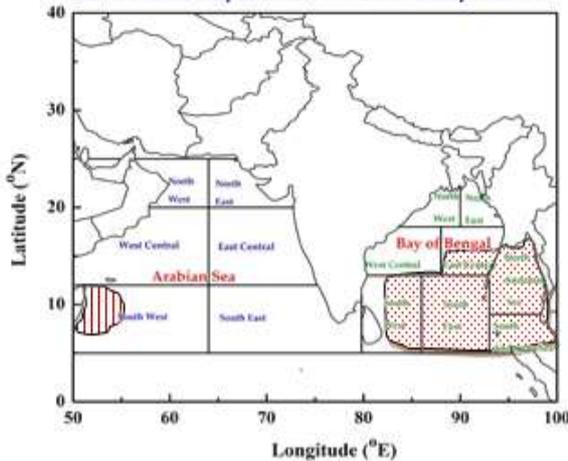
DAY-3: 22.05.2022/0600 UTC TO 23.05.2022/0600 UTC



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