



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 18.07.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0230 UTC OF 18.07.2022 BASED ON 0000 UTC OF 18.07.2022.

SUB: DEPRESSION OVER NORTHEAST ARABIAN SEA WEAKENED INTO A WELL MARKED LOW PRESSURE AREA OVER CENTRAL PARTS OF NORTH ARABIAN SEA

THE DEPRESSION OVER NORTHEAST ARABIAN SEA MOVED NEARLY WESTWARDS DURING LAST 06 HOURS, WEAKENED INTO A WELL MARKED LOW PRESSURE AREA AT 0000 UTC OF TODAY THE 18TH JULY, 2022 OVER CENTRAL PARTS OF NORTH ARABIAN SEA.

IT IS VERY LIKELY TO WEAKEN GRADUALLY INTO A LOW PRESSURE AREA AND MOVE NEARLY WESTWARDS TOWARDS OMAN ACROSS NORTHWEST ARABIAN SEA DURING NEXT 24 HOURS.

AS PER INSAT 3D IMAGERY, ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL PARTS OF NORTHWEST ARABIAN SEA. MINIMUM CLOUD TOP TEMPERATURE IS -89°C . ASSOCIATED INTENSE CONVECTIVE CLOUD MASS LIES WEST TO THE SYSTEM CENTER.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 15 KNOTS GUSTING TO 25 KNOTS. THE SEA CONDITION IS ROUGH OVER CENTRAL PARTS OF ARABIAN SEA. THE ESTIMATED CENTRAL PRESSURE IS 998 HPA.

REMARKS:

SEA SURFACE TEMPERATURE IS AROUND $28-29^{\circ}\text{C}$ OVER NORTHEAST ARABIAN SEA WITH GRADUAL DECREASING TREND OVER NORTHWEST ARABIAN SEA. TROPICAL CYCLONE HEAT POTENTIAL IS AROUND $60-80\text{ KJ}/\text{CM}^2$ OVER NORTHEAST AND ADJOINING NORTHWEST ARABIAN SEA BECOMING LESS THAN $50\text{ KJ}/\text{CM}^2$ OVER GULF OF OMAN AND WESTWARDS. THE MADDEN JULIAN OSCILLATION (MJO) INDEX CURRENTLY LIES IN PHASE 5 WITH AMPLITUDE LESS THAN 1 AND WOULD CONTINUE IN SAME PHASE DURING NEXT 24 HOURS.

LOW LEVEL VORTICITY IS AROUND $90-100 \times 10^{-6}\text{ S}^{-1}$ TO THE SOUTHWEST OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS MODERATE (10 KNOTS) AROUND THE SYSTEM CENTRE. TOTAL PRECIPITABLE WATER IMAGERY INDICATES WARM MOIST AIR INCURSION INTO THE SYSTEM CORE.

MOST OF THE NUMERICAL MODELS INDICATE THAT THE SYSTEM WOULD GRADUALLY WEAKEN INTO A LOW PRESSURE AREA. MODELS ARE ALSO INDICATING NEARLY WESTWARDS MOVEMENT OF THE SYSTEM TOWARDS OMAN COAST.

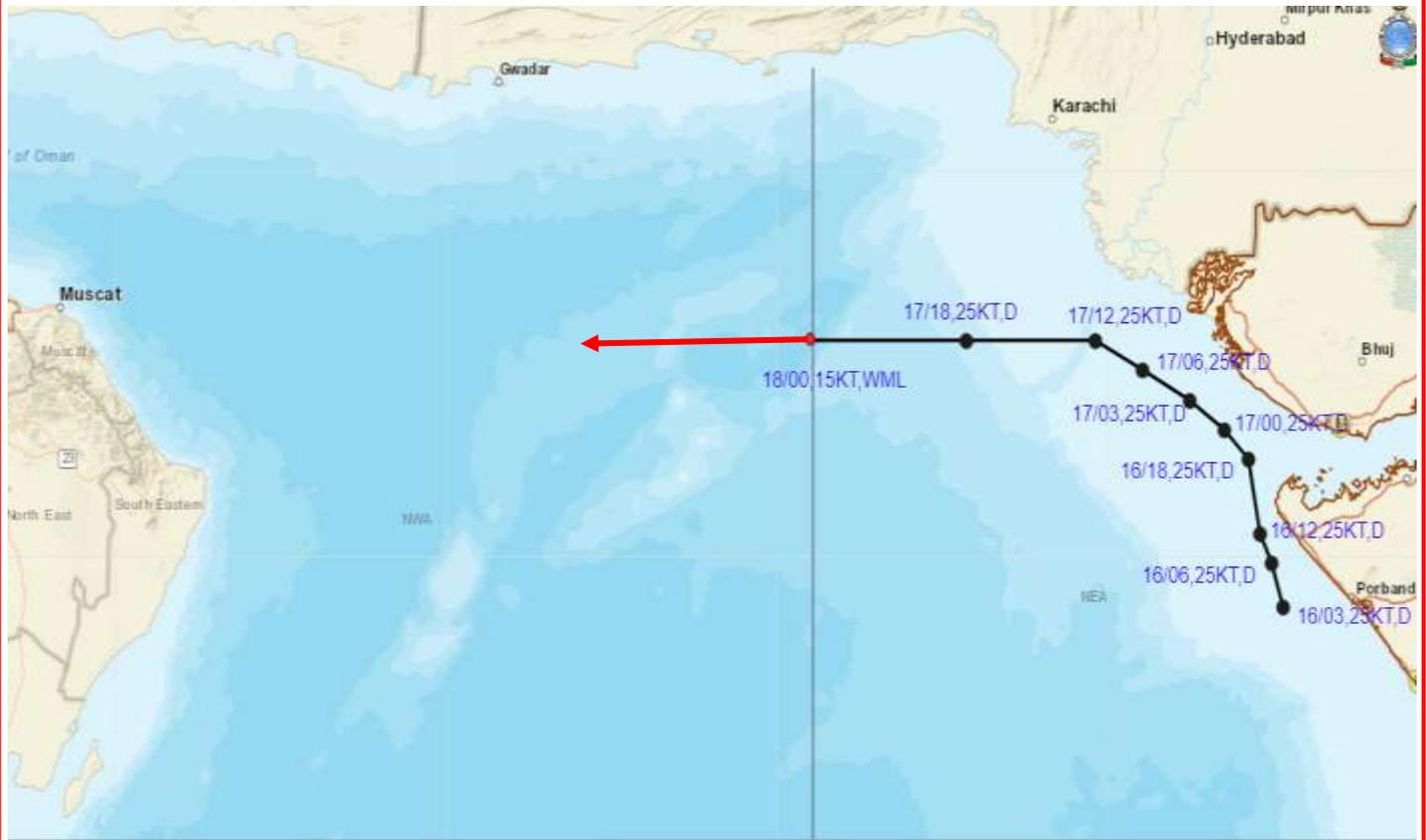
IN VIEW OF THE ABOVE, IT IS VERY LIKELY TO WEAKEN GRADUALLY INTO A LOW PRESSURE AREA AND MOVE NEARLY WESTWARDS TOWARDS OMAN ACROSS NORTHWEST ARABIAN SEA DURING NEXT 24 HOURS.

THIS IS THE LAST BULLETIN IN ASSOCIATION WITH THE SYSTEM. HOWEVER REGULAR WEATHER BULLETINS SHALL CONTINUE FROM THE RESPECTIVE METEOROLOGICAL CENTRES, REGIONAL METEOROLOGICAL CENTRES AND NATIONAL WEATHER FORECASTING CENTRE (NWFC), NEW DELHI, INDIA METEOROLOGICAL DEPARTMENT IN ASSOCIATION WITH IT'S REMNANT LOW PRESSURE SYSTEM.

(SHOBHIT KATIYAR)
SCIENTIST-C
RSMC NEW DELHI



OBSERVED AND FORECAST TRACK OF WELL MARKED LOW PRESSURE AREA OVER CENTRAL PARTS OF NORTH ARABIAN SEA BASED ON 0000 UTC OF 18th JULY 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)

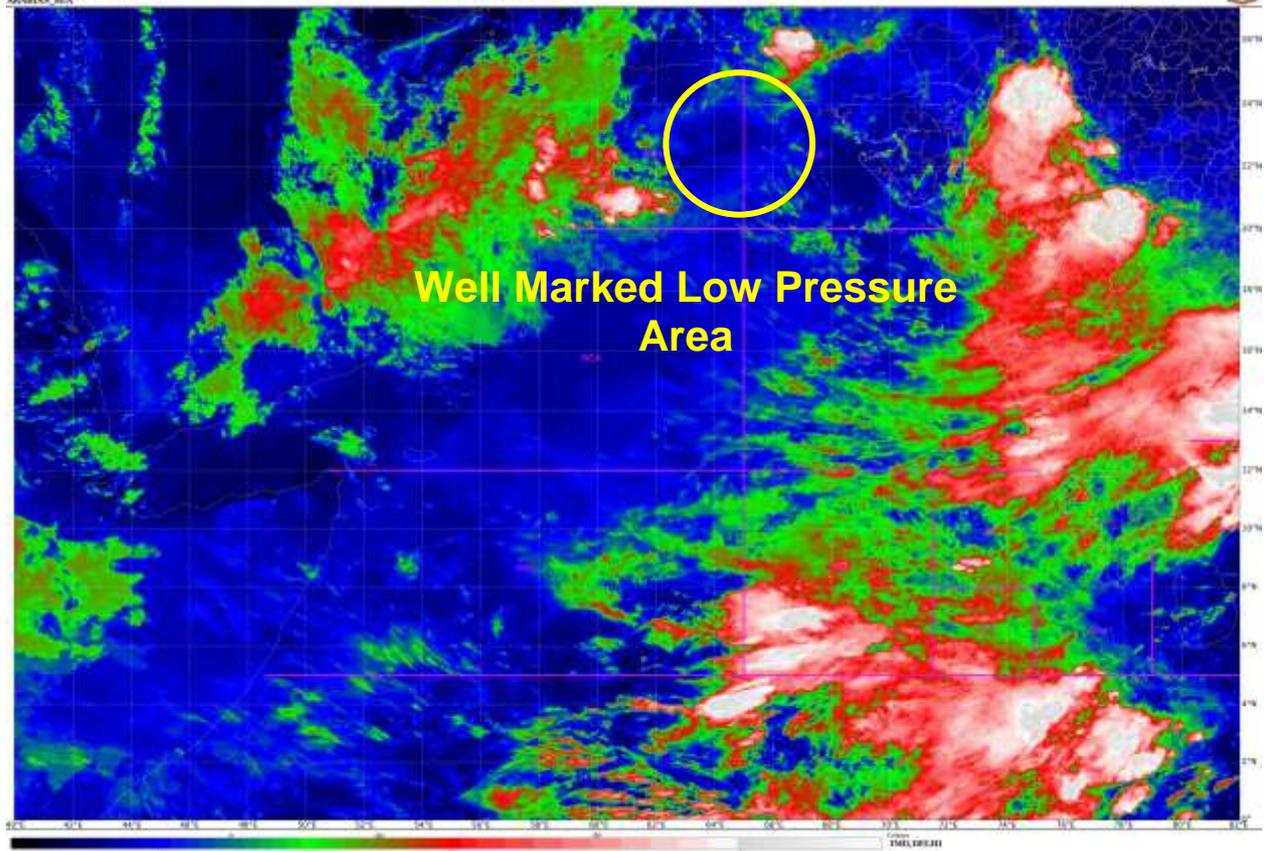
SCS: SEVERE CYCLONIC STORM (48-63KT)

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**

