



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 20.07.2024**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1500 UTC OF 20.07.2024 BASED ON 1200 UTC OF 20.07.2024.**

### **BAY OF BENGAL:**

THE DEPRESSION OVER ODISHA COAST NEAR CHILIKA LAKE MOVED NORTHWESTWARDS DURING PAST 6 HOURS AND WEAKENED INTO A WELL MARKED LOW PRESSURE AREA OVER COASTAL ODISHA AT 1200 UTC OF TODAY, THE 20TH JULY, 2024.

IT IS LIKELY TO MOVE NORTHWESTWARDS ACROSS ODISHA & CHHATTISGARH AND WEAKEN GRADUALLY INTO A LOW PRESSURE AREA DURING NEXT 24 HOURS.

AS PER INSAT-3D IMAGERY, THE SYSTEM IS OVER SOUTH ODISHA COAST AS A VORTEX. ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTH CHHATTISGARH AND NORTHWEST ODISHA AND MODERATE TO INTENSE CONVECTION OVER NORTH CHHATTISGARH AND JHARKHAND. MINIMUM CLOUD TOP TEMPERATURE IS  $-93^{\circ}\text{C}$ .

AS PER OBSERVATIONS AT 1200 UTC, THE SURFACE STATIONS ARE REPORTING AN AREA WITH LOWEST PRESSURE OF 992 HPA. THE PRESSURE DROP DURING PAST 24 HOURS ALSO DECREASED BY 4 HPA AT CENTRE. AT 0600 UTC, LOWEST MEAN SEA LEVEL PRESSURE (MSLP) OF 991.9 HPA IS OBSERVED AT PURI (43053).

### **WIND WARNING**

SQUALLY WEATHER WITH WIND SPEED REACHING 15 KNOTS GUSTING TO 25 KNOTS IS VERY LIKELY TO PREVAIL OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL & ALONG AND OFF NORTH ANDHRA PRADESH, ODISHA, WEST BENGAL & ADJOINING BANGLADESH COASTS ON 20TH JULY AND WOULD DECREASE GRADUALLY THEREAFTER.

**SEA CONDITION:** ROUGH TO VERY ROUGH SEA CONDITION IS VERY LIKELY TO PREVAIL OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL AND ALONG AND OFF NORTH ANDHRA PRADESH, ODISHA, WEST BENGAL & ADJOINING BANGLADESH COASTS ON 20 TH JULY AND WOULD IMPROVE GRADUALLY THEREAFTER.

### **FISHERMEN WARNING**

FISHERMEN ARE ADVISED NOT TO VENTURE INTO NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL AND ALONG & OFF NORTH ANDHRA PRADESH, ODISHA, WEST BENGAL & ADJOINING BANGLADESH COASTS ON 20TH JULY.

## ARABIAN SEA:

SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER EAST ARABIAN SEA, LAKSHADWEEP ISLANDS AND COMORIN. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER REST OF ARABIAN SEA AND MALDIVES.

### \*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

\*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

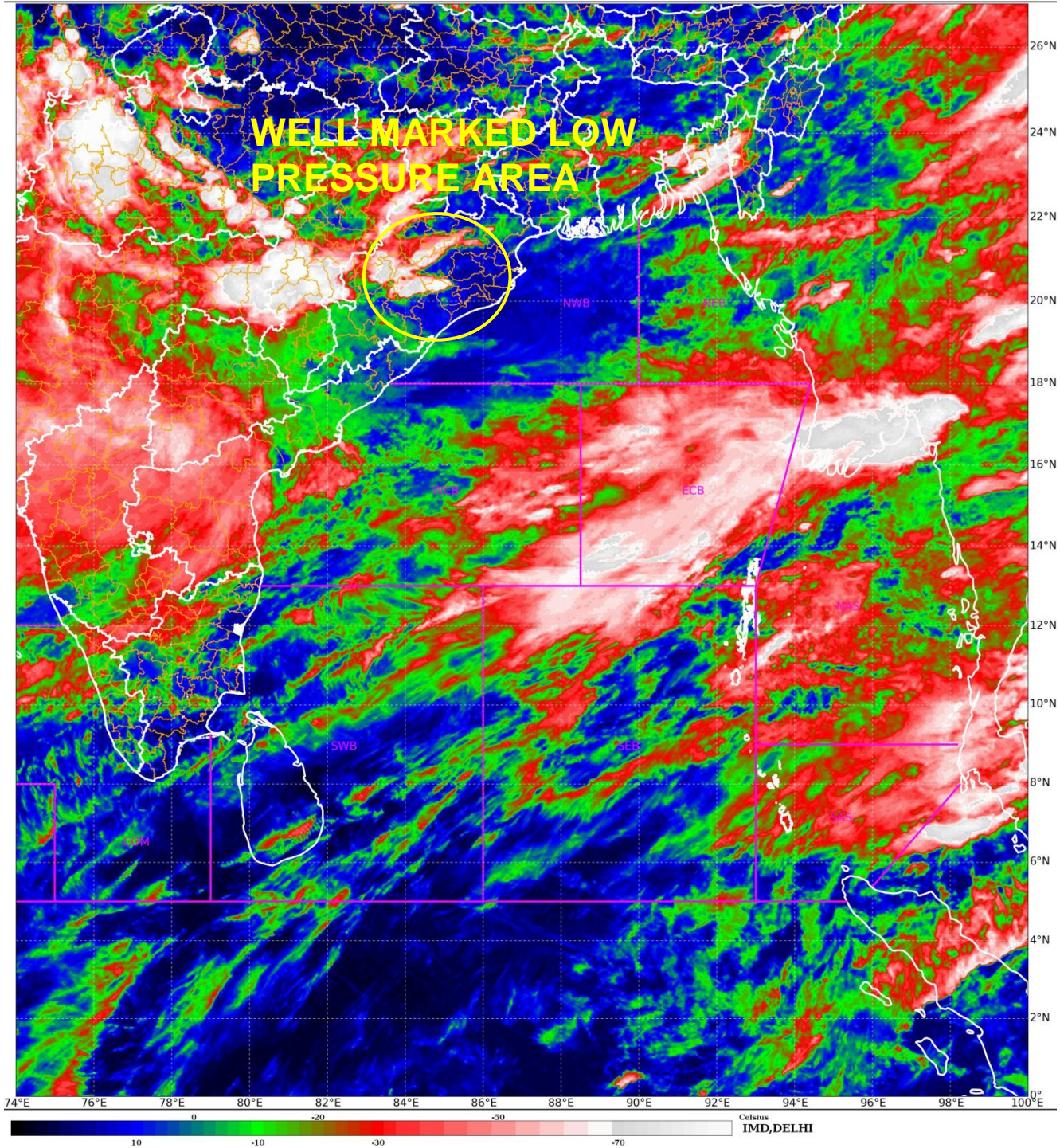
### REMARKS:

CONSIDERING THE ENVIRONMENTAL CONDITIONS, LOW LEVEL VORTICITY DECREASED AND IS ABOUT  $75 \times 10^{-5} \text{S}^{-1}$  OVER NORTHWEST & ADJOINING WESTCENTRAL BAY OF BENGAL TO THE EAST OF SYSTEM CENTRE ALTHOUGH HAS VERTICAL EXTENSION UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS CIRCULAR AND IS ABOUT  $20 \times 10^{-5} \text{S}^{-1}$  AROUND THE SYSTEM CENTER. UPPER LEVEL DIVERGENCE HAS DECREASED AND IS ABOUT  $10 \times 10^{-5} \text{S}^{-1}$  TO THE SOUTHWEST OF SYSTEM CENTER. VERTICAL WIND SHEAR (VWS) IS VERY HIGH (40-50 KT) OVER THE AREA.

CONSIDERING VARIOUS NUMERICAL MODELS FORECASTS FOR THE SYSTEM AND ALL ENVIRONMENTAL FACTORS, IT IS LIKELY TO MOVE NORTHWESTWARDS ACROSS ODISHA & CHHATTISGARH AND WEAKEN GRADUALLY INTO A LOW PRESSURE AREA DURING NEXT 24 HOURS.

AKHIL SRIVASTAVA  
SCIENTIST D  
RSMC, NEW DELHI

*THIS IS THE LAST BULLETIN IN ASSOCIATION WITH THIS 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 THIS SYSTEM.*



Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C  
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100%  
This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins



## OBSERVED TRACK OF DEPRESSION OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL DURING 19<sup>th</sup> to 20<sup>th</sup> JULY, 2024.

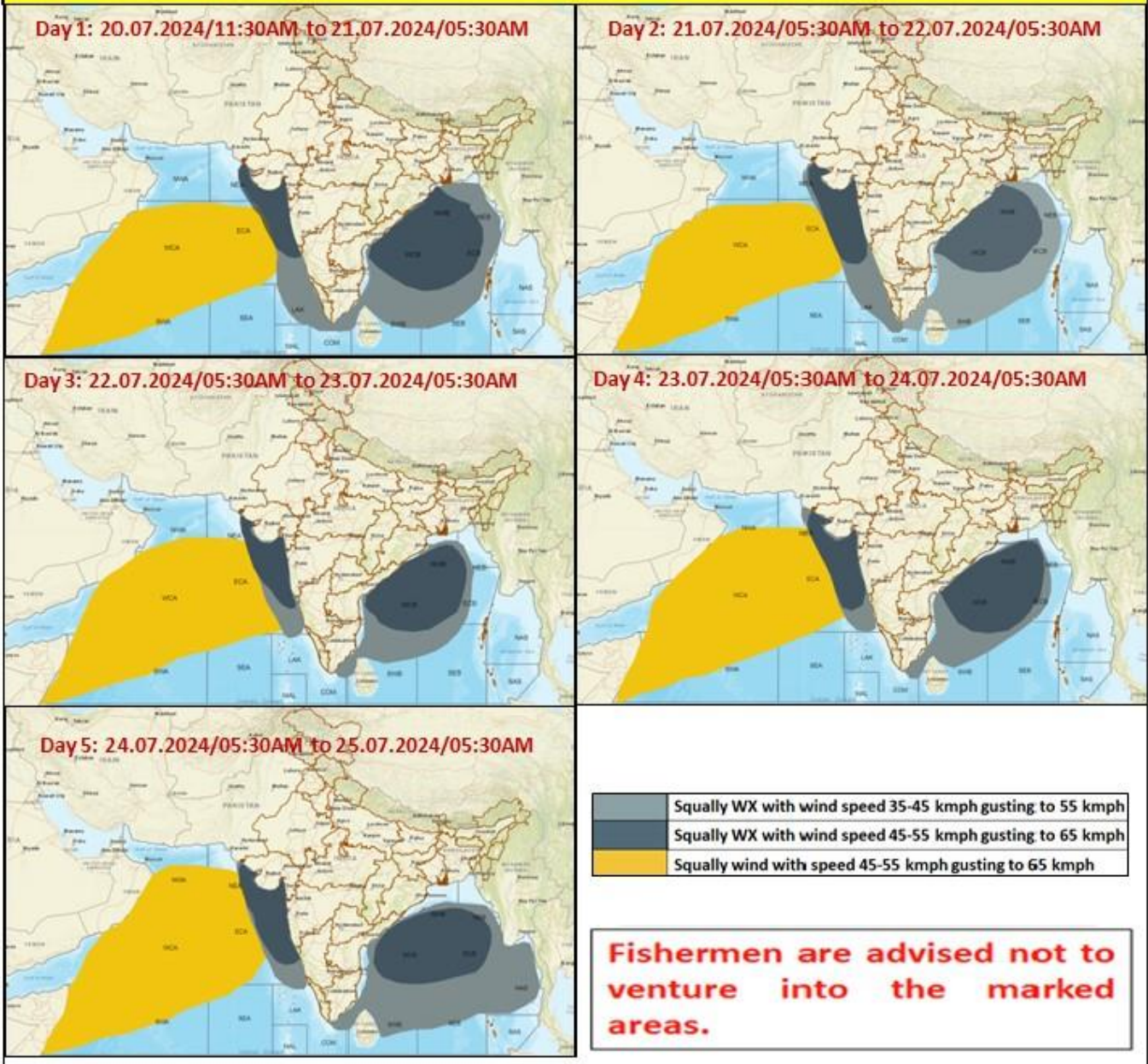


**DATE/TIME IN UTC**  
**IST=UTC + 0530**  
**L: LOW PRESSURE AREA**  
**WML: WELL MARKED LOW PRESSURE AREA**  
**D: DEPRESSION (17-27 KT)**  
**DD: DEEP DEPRESSION (28-33 KT)**  
**CS: CYCLONIC STORM (34-47 KT)**  
**SCS: SEVERE CYCLONIC STORM (48-63KT)**  
**VSCS: VERY SEVERE CYCLONIC STORM (64-89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

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## Fishermen Warning Graphics



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