



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 09.08.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1500 UTC OF 09.08.2022 BASED ON 1200 UTC OF 09.08.2022.

Sub: Depression over interior Odisha

THE DEPRESSION OVER COASTAL ODISHA AND NEIGHBOURHOOD MOVED WEST-NORTHWESTWARDS WITH A SPEED OF ABOUT 20 KMPH DURING PAST 6 HOURS AND LAY CENTERED AT 1200 UTC OF TODAY, THE 9TH AUGUST, 2022 OVER INTERIOR ODISHA NEAR LATITUDE 21.2° N AND LONGITUDE 84.2° E ABOUT 30 KM SOUTHEAST SAMBALPUR (42883), 200 KM NORTHWEST OF BHUBANESWAR (42971) AND 260 KM EAST OF RAIPUR (42874).

IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS, MAINTAIN ITS INTENSITY TODAY AND WEAKEN GRADUALLY INTO A WELL-MARKED LOW PRESSURE AREA OVER CHHATTISGARH AND NEIGHBOURHOOD TOMORROW.

AS PER INSAT-3D IMAGERY AT 1200 UTC, SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER ODISHA, CHATTISGARH, COASTAL GANGETIC WEST BENGAL & NORTHWEST BAY OF BENGAL. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELSIUS.

THE ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 992 HPA. SEA CONDITION IS ROUGH TO VERY ROUGH OVER NORTHWEST BAY OF BENGAL.

REMARKS:

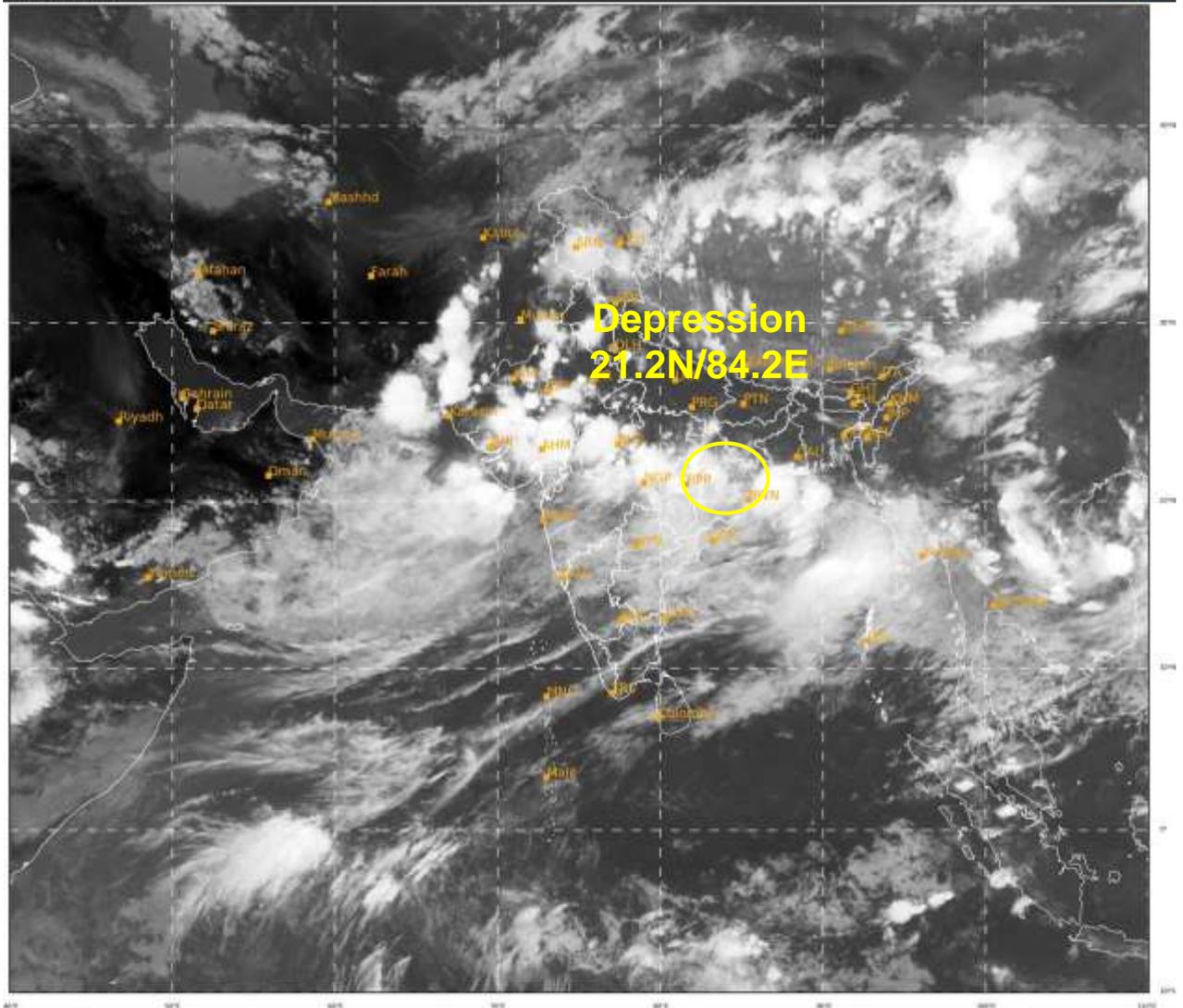
THE MADDEN JULIAN INDEX (MJO) CURRENTLY LIES IN PHASE 1 WITH AMPLITUDE LESS THAN 1. IT IS LIKELY TO CONTINUE IN SAME PHASE WITH AMPLITUDE REMAINING LESS THAN 1 DURING NEXT 5 DAYS.

LOW LEVEL VORTICITY HAS INCREASED AND IS AROUND $100 \times 10^{-6} \text{ S}^{-1}$ AROUND SYSTEM CENTRE AND IS EAST-WEST ORIENTED. LOW LEVEL CONVERGENCE HAS SLIGHTLY INCREASED DURING PAST 06 HOURS AND IS AROUND $30 \times 10^{-5} \text{ S}^{-1}$ TO THE SOUTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND $10 \times 10^{-5} \text{ S}^{-1}$ OVER SYSTEM CENTRE AND IS EAST-WEST ORIENTED OVER ENTIRE CENTRAL INDIA. WIND SHEAR IS LOW (05-10 KNOTS) OVER THE SYSTEM CENTRE AND ALONG THE FORECAST TRACK.

MOST OF THE MODELS INDICATE THAT THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS AND WEAKEN GRADUALLY BY TOMORROW. MODELS ARE ALSO INDICATING LIKELY EMERGENCE OF THE SYSTEM INTO NORTHEAST ARABIAN SEA AROUND 12TH AUGUST.

CONSIDERING ALL THE ABOVE, IT IS INFERRED THAT THE DEPRESSION OVER INTERIOR ODISHA IS LIKELY TO MAINTAIN IT'S INTENSITY TODAY AND WEAKEN GRADUALLY INTO A WELL-MARKED LOW PRESSURE AREA OVER CHHATTISGARH AND NEIGHBOURHOOD TOMORROW.

**(M. SHARMA)
SCIENTIST-D, RSMC NEW DELHI**



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IMD,DELHI



OBSERVED AND FORECAST TRACK OF DEPRESSION OVER INTERIOR ODISHA BASED ON 1200 UTC OF 09TH AUGUST, 2022

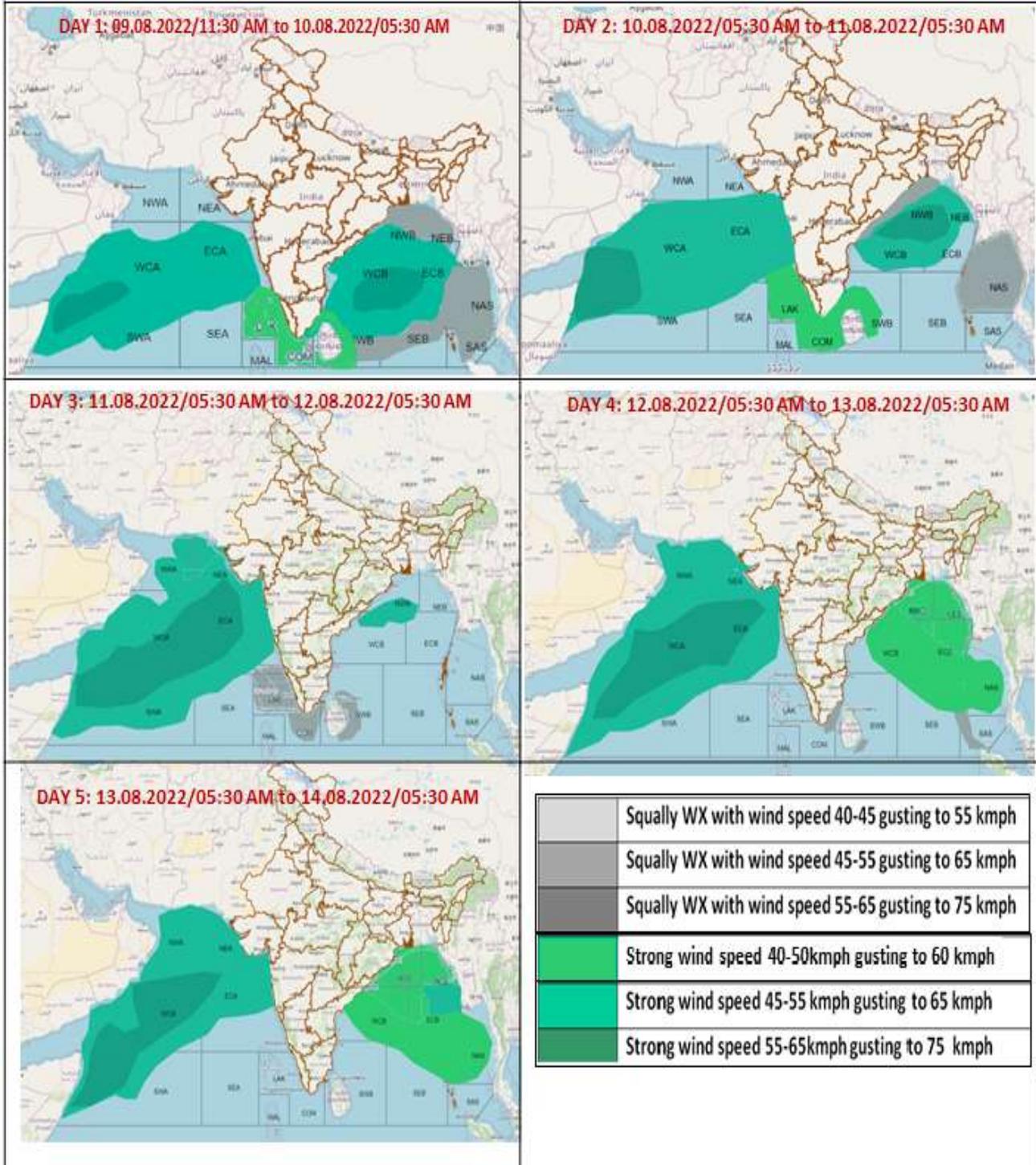


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119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

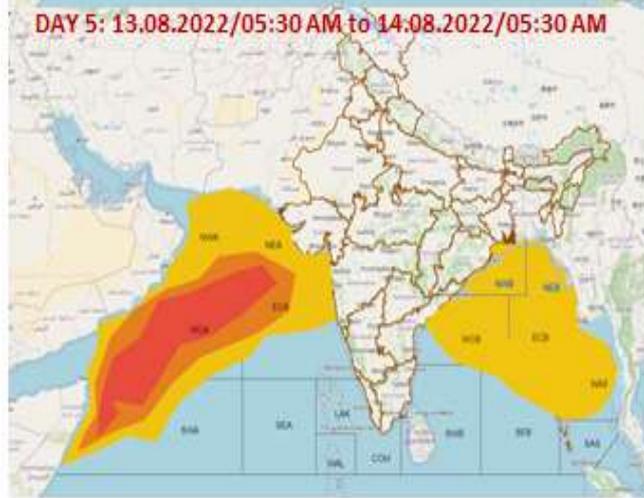
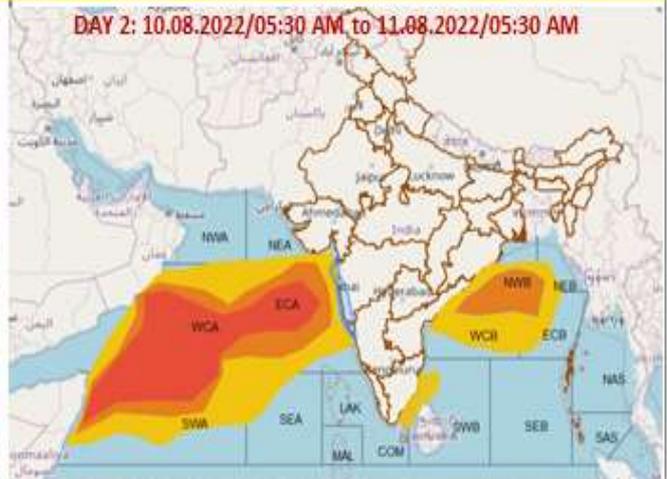
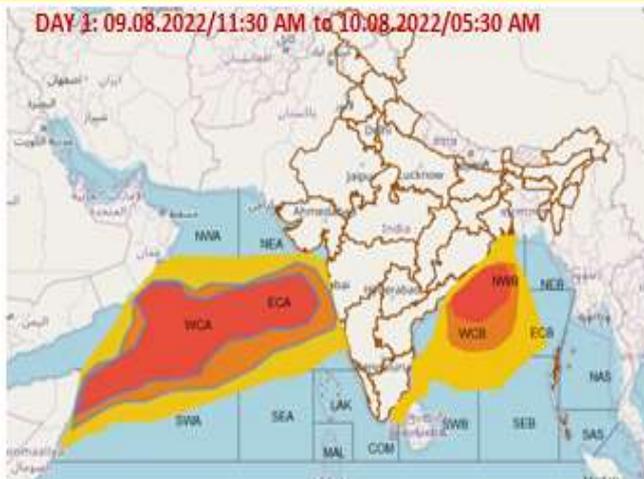
Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C
PROBABILITY OF CYCLOGENESIS (FORMATION 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

Fishermen Warning Graphics



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Probability of exceedance of maximum sustained winds ≥ 45 kmph



Probability of exceedance	
	Low (1-33%)
	Moderate (34-67%)
	High (68-100%)

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