



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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 05.12.2021

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 05.12.2021 BASED ON 1200 UTC OF 05.12.2021.

SUB: DEPRESSION (REMNANT OF CYCLONIC STORM 'JAWAD') OVER NORTHWEST BAY OF BENGAL NEAR ODISHA COAST

THE **DEPRESSION (REMNANT OF CYCLONIC STORM 'JAWAD')** OVER **NORTHWEST BAY OF BENGAL NEAR ODISHA COAST** MOVED NORTHEASTWARDS WITH A SPEED OF 25 KMPH DURING PAST 06 HOURS, AND LAY CENTERED AT 1730 HRS IST OF TODAY, THE 05TH DECEMBER 2021, OVER NORTHWEST BAY OF BENGAL CLOSE TO ODISHA COAST NEAR LAT. 20.1°N AND LONG. 86.9°E, ABOUT 30 KM SOUTHEAST OF OF PARADIP (42976), 120 KM EAST-NORTHEAST OF PURI (43053), 210 SOUTH-SOUTHWEST OF SAGAR ISLAND (42903)

IT IS LIKELY TO MOVE NORTHEASTWARDS, TOWARDS WEST BENGAL COAST AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME (UTC)	POSITION (LAT. ºN/ LONG. ºE)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
05.12.21/1200	20.1/86.9	45-55 gusting to 65	Depression
05.12.21/1800	20.7/87.5	40-50 gusting to 60	Depression
06.12.21/0000	21.3/88.1	30-40 gusting to 50	Well Marked Low

AS PER SATELLITE IMAGERY BASED ON 1200 UTC OF 5TH DEC, THE INTENSITY OF THE SYSTEM IS CHARACTERIZED AS T1.5. ASSOCIATED CLOUD MASS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER NORTHEAST ODISHA AND MODERATE TO INTENSE CONVECTION IS SEEN OVER NORTHWEST ODISHA, JHARKHAND & SOUTH GANGETIC WEST BENGAL. ASSOCIATED SCATTERED TO BROKEN LOW TO MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTHWEST BOB, NORTH OF LATITUDE 18.5^oN AND WEST OF LONGITUDE 85.0^oE. THE MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.

THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. ESTIMATED CENTRAL PRESSURE IS ABOUT 1004 HPA. SEA CONDITION WOULD BE ROUGH TO VERY ROUGH OVER NORTHWEST BOB ALONG & OFF ODISHA-WEST BENGAL COASTS DURING NEXT 12 HOURS.

REMARKS:

THE SEA SURFACE TEMPERATURE IS 28-29°C OVER WESTCENTRAL & ADJOINING NORTHWEST BOB AND IS SLIGHTLY LESS ABOUT 26-28°C TOWARDS NORTHWEST BOB ALONG THE FORECAST TRACK. TROPICAL CYCLONE HEAT POTENTIAL IS 60-80 KJ/CM² OVER WESTCENTRAL BOB AND IS GRADUALLY DECREASING TOWARDS COAST

BECOMING LESS THAN 50 KJ/CM² OVER NORTHWEST BOB OFF NORTH ODISHA COAST TO BANGLADESH COAST. DEPTH OF 26⁰C ISOTHERM IS ABOUT 100M OVER NORTHWEST & ADJOINING WESTCENTRAL BOB. THE MADDEN JULIAN OSCILLATION INDEX BEING CURRENTLY IN PHASE 6 WITH AMPLITUDE MORE THAN 1 WILL NOT SUPPORT ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE BOB REGION.

WIND SHEAR IS HIGH AND IS ABOUT 20-25 KNOTS OVER THE SYSTEM AREA. IT IS FURTHER INCREASING TOWARDS NORTHWEST BOB ALONG THE TRACK. POSITIVE LOW LEVEL VORTICITY HAS DECREASED SLIGHTLY AND IS ABOUT 60-80x10⁻⁶S⁻¹ TO THE SOUTH OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE HAS DECREASED AND IS ABOUT 05x10⁻⁶S⁻¹ TO THE NORTHEAST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE HAS DECREASED AND IS 10x10⁻⁵S⁻¹ OVER NORTHWEST BOB AND IS EAST-WEST ORIENTED. UPPER TROPOSPHERIC RIDGE RUNS ALONG 18.5⁰N. THE SYSTEM IS EXPECTED TO MOVE NORTHEASTWARDS ALONG ODISHA COAST AS IT IS LYING CLOSE TO THE WESTERN PERIPHERY OF ANTICYCLONE OVER MYANMAR REGION.

MOST OF THE NUMERICAL MODELS ARE INDICATING WEAKENING OF SYSTEM BY 0000 UTC OF 6TH DECEMBER WITH NORTH-NORTHEASTWARDS MOVEMENT OFF ODISHA COAST ON 5TH. MODELS ARE ALSO INDICATING THE SYSTEM TO REACH CLOSE TO WEST BENGAL –BANGLADESH COAST AS A LOW PRESSURE AREA ON 6TH.

DUE TO UNFAVOURABLE ENVIRONMENTAL FEATURES INCLUDING ENHANCED VERTICAL WIND SHEAR, LAND INTERACTIONS, DECREASED OCEAN THERMAL ENERGY OVER NORTHWEST BOB AND UNFAVOURABLE MJO PHASE, THE SYSTEM WILL DISSIPATE GRADUALLY.

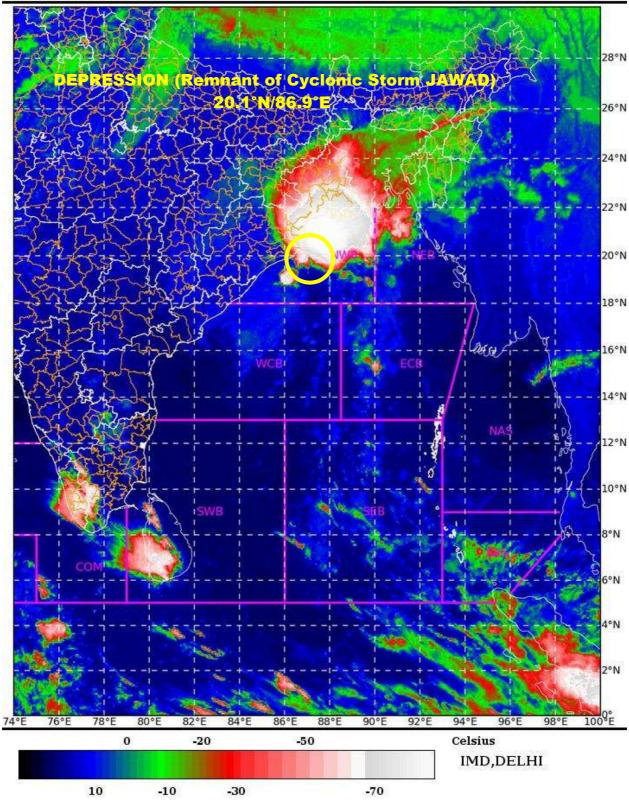
IN VIEW OF ABOVE, THE SYSTEM IS LIKELY TO CONTINUE TO MOVE NORTHEASTWARDS TOWARDS WEST BENGAL COAST AND WEAKEN INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 5TH DECEMBER 2021.

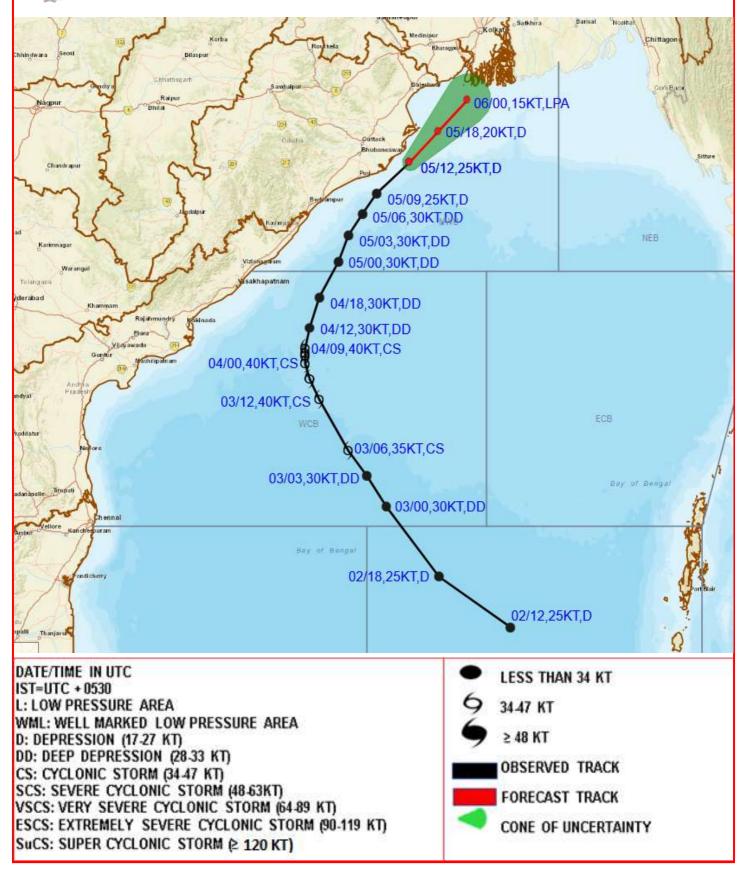
(R K JENAMANI) Scientist-F, RSMC, New Delhi SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um 05-12-2021/(1330 to 1356) GMT 05-12-2021/(1900 to 1926) IST

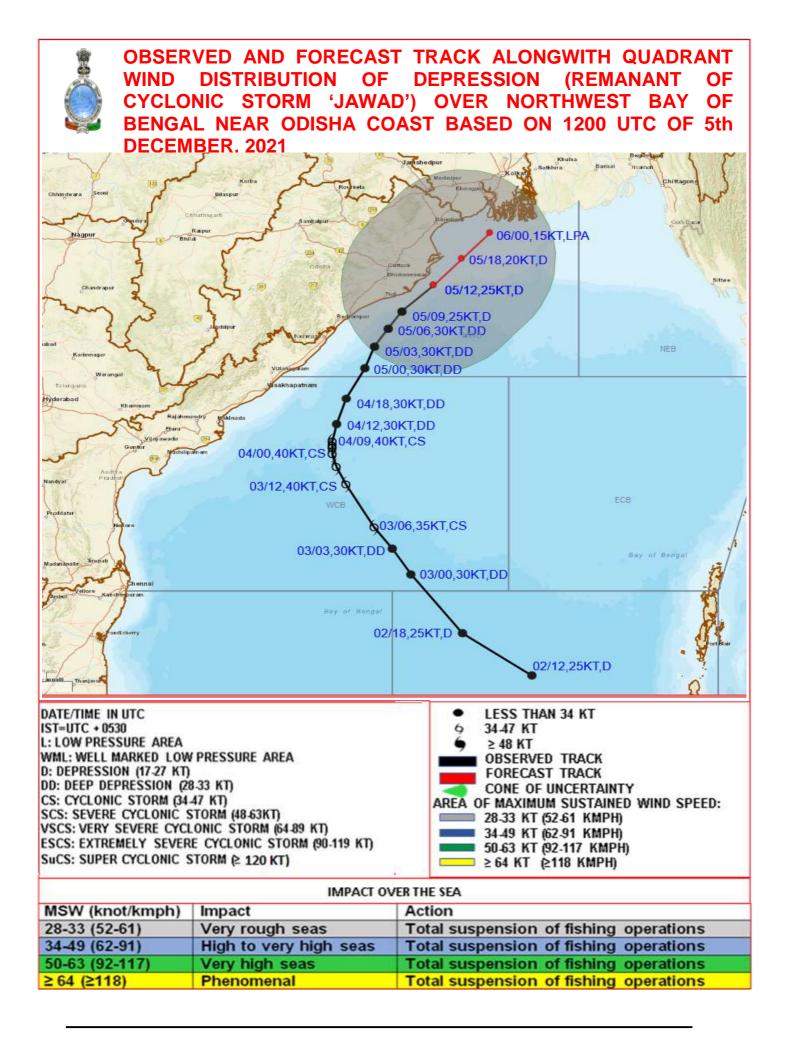


L1C Mercator



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION (REMANANT OF CYCLONIC STORM 'JAWAD') OVER NORTHWEST BAY OF BENGAL NEAR ODISHA COAST BASED ON 1200 UTC OF 5th DECEMBER, 2021





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