



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

FROM: RSMC -TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 1 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0915 UTC OF 03.12.2021 BASED ON 0600 UTC OF 03.12.2021

SUB: DEEP DEPRESSION INTENSIFIED INTO CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL

THE **DEEP DEPRESSION** OVER WESTCENTRAL BAY OF BENGAL MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 25 KMPH DURING PAST 06 HOURS, INTENSIFIED FURTHER INTO **CYCLONIC STORM 'JAWAD'** (PRONOUNCED AS JOWAD) AND LAY CENTERED AT 0600 HRS UTC OF TODAY, THE 3RD DECEMBER 2021, OVER WESTCENTRAL OF BENGAL NEAR LAT. 14.5°N AND LONG. 85.5°E, ABOUT 420 KM SOUTH-SOUTHEAST OF VISHAKHAPATNAM(43149), 530 KM SOUTH-SOUTHEAST OF GOPALPUR (42049) AND 650 KM SOUTH-SOUTHWEST OF PARADIP (42976).

IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS, INTENSIFY FURTHER AND REACH WEST-CENTRAL BAY OF BENGAL OFF NORTH ANDHRA PRADESH – SOUTH ODISHA COASTS BY TOMORROW, THE 0000UTC OF 4^{TH} DECEMBER. THEREAFTER IT IS LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE ALONG ODISHA COAST REACHING NEAR PURI AROUND 5^{TH} DECEMBER AROUND 0600 UTC. SUBSEQUENTLY IT IS LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS ALONG COASTAL ODISHA TOWARDS WEST BENGAL COAST.

FORECAST TRACK AND INTENSITY OF THE SYSTEM IS GIVEN IN TABLE:

DATE/TIME(UTC)	POSITION (LAT.ºN/ LONG.ºE)	MAXIMUM SUSTAINED SURFACE	CATEGORY OF CYCLONIC DISTURBANCE
		WIND SPEED (KMPH)	
03.12.21/0600	14.5/85.5	60-70 GUSTING TO 80	CYCLONIC STORM
03.12.21/1200	15.0/85.1	70-80 GUSTING TO 90	CYCLONIC STORM
03.12.21/1800	15.7/84.6	75-85 GUSTING TO 95	CYCLONIC STORM
04.12.21/0000	16.5/84.3	80-90 GUSTING TO 100	CYCLONIC STORM
04.12.21/0600	17.1/84.2	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
04.12.21/1800	18.4/84.7	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM

05.12.21/0600	19.5/85.6	80-90 GUSTING TO 100	CYCLONIC STORM
05.12.21/1800	20.7/86.9	60-70 GUSTING TO 80	CYCLONIC STORM

THE INTENSITY OF THE SYSTEM IS CHARACTERIZED AS T 2.5. THE CLOUD MASS IS ORGANIZED IN SHEAR PATTERN. THE SYSTEM MOVED WEST NORTH-WESTWARDS IN LAST 3 HOURS AND CONSOLIDATED FURTHER. THE CONVECTIVE CLOUD CLUSTERS ARE SHEARED TO NORTHWEST SECTOR. AREA OF INTENSE CONVECTION LIES IN THE NORTHERN SECTOR. SECONDARY CLOUD BANDS ARE OBSERVED OVER NORTH ANDHRA PRADESH AND SOUTH ODISHA COASTS. ASSOCIATED BROKEN LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL & ADJOINING NORTHWEST BOB BETWEEN LATITUDE 14.0°N & 22.0°N AND LONGITUDE 81.0°E & 92.0°E, NORTH COASTAL ANDHRA PRADESH AND EAST ODISHA.

THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA. SEA CONDITION HIGH OVER WESTCENTRAL & ADJOINING SOUTH BAY OF BENGAL.

REMARKS:

THE SEA SURFACE TEMPERATURE IS 29-31°C OVER ENTIRE BOB. TROPICAL CYCLONE HEAT POTENTIAL IS 100-120 KJ/CM2 OVER SOUTHEAST BAY OF BENGAL (BOB) AND ADJOINING ANDAMAN SEA. IT IS GRADUALLY DECREASING TOWARDS NORTHWEST BECOMING 60-80 OVER WESTCENTRAL & NORTHWEST BOB. DEPTH OF 26°C ISOTHERM IS 100-120 M OVER WESTCENTRAL & ADJOINING NORTHWEST BOB. THE MADDEN JULIAN OSCILLATION INDEX IS CURRENTLY IN PHASE 6 WITH AMPLITUDE MORE THAN 1. IT WILL CONTINUE IN SAME PHASE DURING NEXT 7 DAYS. WIND SHEAR IS MODERTE 15-20 KNOTS OVER THE SYSTEM AREA. IT IS BECOMING SLIGHTLY HIGHER TOWARDS WESTCENTRAL & NORTHWEST BOB. POSITIVE LOW LEVEL VORTICITY IS ABOUT 180x10-6S-1 AROUND THE SYSTEM CENTER WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS 20-30x10⁻⁶S⁻¹ TO THE NORTHEAST OF THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS 40x10⁻⁵S⁻¹ TO NORTH OF SYSTEM CENTRE. THUS. ENVIRONMENTAL FEATURES FOR **FURTHER** SLIGHT INTENSIFICATION OF FAVOURABLE SYSTEM. **UPPER** TROPOSPHERIC RIDGE RUNS ALONG 16^oN. A TROUGH IN MID & UPPER TROPOSPHERIC WESTERLIES RUNS ALONG LONG. 73.0°E TO THE NORTH OF LAT. 15°N. AS THE SYSTEM COMES CLOSER TO THE RIDGE, IT WILL MOVE NORTH-NORTHWESTWARDS TILL 0000UTC OF 4TH NOV. THEREAFTER, THE SYSTEM WILL CROSS THE RIDGE AND WILL BE STEERED NORTH-NORTHEASTWARDS, UNDER THE **INFLUENCE** OF SOUTH-SOUTHWESTERLIES PREVAILING IN THE NORTHERN PERIPHERY OF RIDGE AND THE APPROACHING TROUGH IN WESTERLIES AT MIDDLE AND UPPER TROPOSPHERIC LEVELS.

MOST OF THE MODELS ARE INDICATING THAT THE CURRENT CYCLONIC STORM OVER WESTCENTRAL BOB WOULD INTENSIFY SLIGHTLY FURTHER DURING NEXT 12 HOURS. MOST OF THE MODELS ARE INDICATING IT IS LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE ALONG ODISHA COAST REACHING NEAR PURI AROUND 5^{TH} DECEMBER AROUND 0600 UTC.

NEXT BULLETIN WILL BE ISSUED AT 1200 UTC OF 3RD DECEMBER 2021.

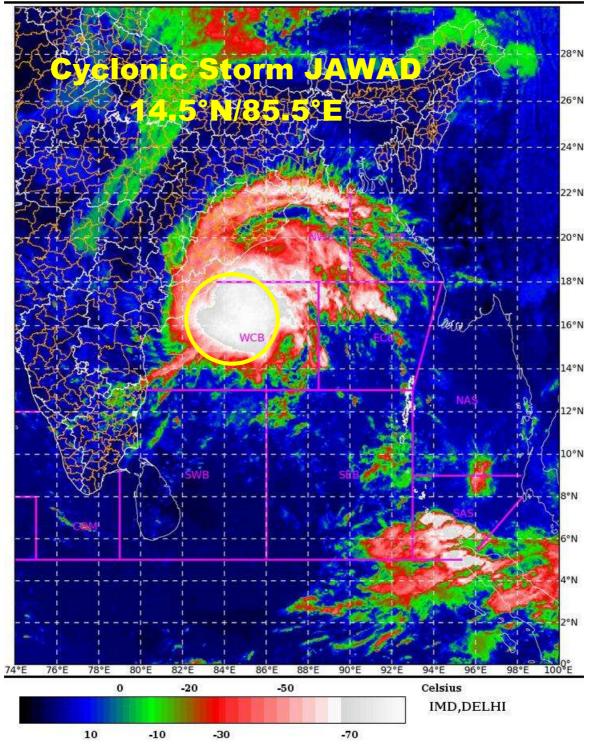
(RK JENAMANI) Scientist-F, RSMC, New Delhi

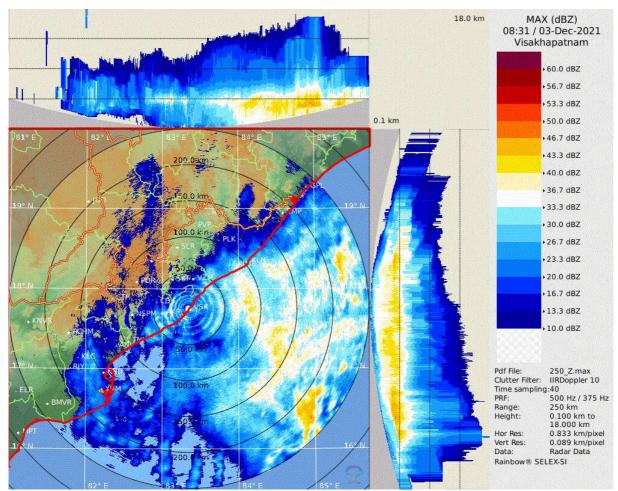
This is a guidance Bulletin for the WMO/ESCAP Panel Member countries,. Please visit respective National websites for Country specific Bulletins

SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um 03-12-2021/(0730 to 0757) GMT 03-12-2021/(1300 to 1327) IST



L1C Mercator

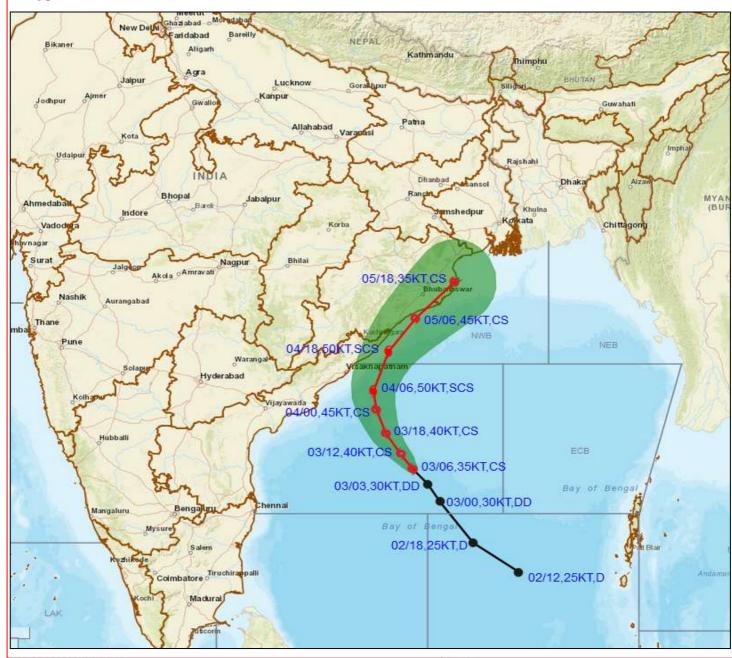




Doppler Weather RADAR imagery from Vishakhapatnam, depicting the approaching convective cloud towards north Andhra Pradesh coast.



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 3rd DECEMBER, 2021



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

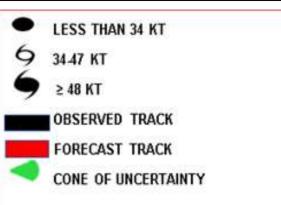
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

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)











OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 3rd DECEMBER, 2021

