



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY NO. 6

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)

TROPICAL CYCLONE ADVISORY NO. 6 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0000 UTC OF 04.12.2021 BASED ON 2100 UTC OF 03.12.2021

SUB: CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL

IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

THE **CYCLONIC STORM 'JAWAD'** (PRONOUNCED AS JOWAD) OVER WESTCENTRAL BAY OF BENGAL CONTINUED TO MOVE NORTH-NORTHWESTWARDS WITH A SPEED OF 09 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 2100 UTC OF TODAY, THE 3RD DECEMBER 2021, OVER WESTCENTRAL BAY OF BENGAL NEAR LAT. 16.0°N AND LONG. 84.9°E, ABOUT 250 KM SOUTHEAST OF VISHAKHAPATNAM (43149), 360 KM SOUTH OF GOPALPUR (42049), 430 KM SOUTH-SOUTHWEST OF PURI (42053) AND 510 KM SOUTH-SOUTHWEST OF PARADIP (42976).

IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS AND REACH WESTCENTRAL BAY OF BENGAL OFF NORTH ANDHRA PRADESH–SOUTH ODISHA COASTS BY 04^{TH} DECEMBER MORNING. THEREAFTER, IT IS LIKELY TO RECURVE NORTH-NORTHEASTWARDS, MOVE ALONG ODISHA COAST REACHING NEAR PURI AROUND 0600 UTC OF 5^{TH} DECEMBER AND WEAKEN GRADUALLY. SUBSEQUENTLY, IT IS LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS ALONG ODISHA COAST TOWARDS WEST BENGAL COAST AND WEAKEN FURTHER.

Forecast track and intensity are given in the following table:

DATE/TIME(UTC)		MAXIMUM SUSTAINED SURFACE	CATEGORY OF
	LAT. ⁰ N/ LONG. ⁰	WIND SPEED (KMPH)	CYCLONIC
			DISTURBANCE
03.12.21/2100	16.0/84.9	70-80 gusting to 90	CYCLONIC STORM
04.12.21/0000	16.5/84.8	75-85 gusting to 95	CYCLONIC STORM
04.12.21/0600	17.1/84.7	75-85 gusting to 95	CYCLONIC STORM
04.12.21/1200	17.9/84.7	70-80 gusting to 90	CYCLONIC STORM
04.12.21/1800	18.5/84.9	70-80 gusting to 105	CYCLONIC STORM
05.12.21/0600	19.6/85.8	65-75 gusting to 90	CYCLONIC STORM
05.12.21/1800	20.6/86.8	45-55 gusting to 65	DEPRESSION

AS PER SATELLITE IMAGERY BASED ON 2100 UTC OF 3 DEC, THE INTENSITY OF THE SYSTEM IS CHARACTERIZED AS T 2.5. THE SYSTEM HAS SLIGHTLY DISORGANISED IN LAST 3 HOURS. THE CLOUD MASS IN NORTHERN SECTOR CLOSE TO THE LLC EXHIBITS SHEAR PATTERN. THE SYSTEM MOVED NORTH- NORTHWESTWARDS DURING LAST 6 HOURS WITH ABOUT A SPEED OF 09 KMPH. INTENSE TO VERY INTESE CONVECTION LIES IN THE NORTHERN SECTOR. OUTFLOW CLOUD BANDS EMBEDDED WITH INTENSE CONVECTIVE CELLS ARE OBSERVED OVER NORTH ANDHRA PRADESH AND ODISHA AND GANGETIC WEST BENGAL. ASSOCIATED BROKEN LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER WEST CENTRAL AND NORTHWEST BOB BETWEEN LATITUDE 15.0°N & 21.5°N AND LONGITUDE 83.0°E & 89.0°E, NORTH COASTAL ANDHRA PRADESH, ODISHA, SOUTHERN JHARKHAND AND SOUTHERN PARTS OF GANGETIC WEST BENGAL .

THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 999 HPA. SEA CONDITION IS HIGH OVER WESTCENTRAL BAY OF BENGAL AROUND THE SYSTEM CENTRE.

AT 2100 UTC, THREE BUOYS: NEAR 16.3°N/88.0°E, 14.0°N/87.0°E AND 13.4 0 /84.1 0 REPORTED MAXIMUM SUSTAINED WIND OF 150°/19KTS , 200°/19KTS AND 310/14KTS , MEAN SEA LEVEL PRESSURE OF 1009 HPA, EACH AND SEA SURFACE TEMPERATURE 28.8°C, 28.8 0 C and 28.6 0 C RESPECTIVELY.

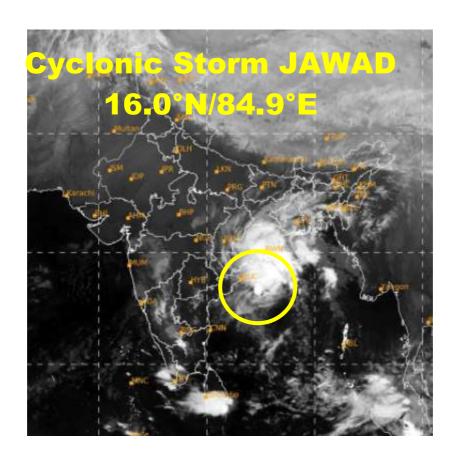
REMARKS:

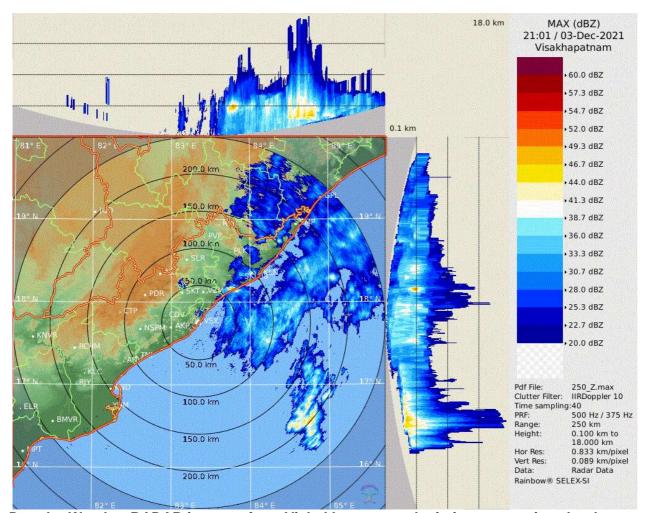
THE SEA SURFACE TEMPERATURE IS 28-29°C OVER WESTCENTRAL BOB AND THEN OF 27-28°C TOWARDS NORTHWEST BOB. TROPICAL CYCLONE HEAT POTENTIAL IS 80-100 KJ/CM² OVER WESTCENTRAL BOB AND GRADUALLY DECREASING TOWARDS EXTREME NORTHWEST BECOMING 50-60. DEPTH OF 26°C ISOTHERM IS 100-120 M OVER WESTCENTRAL & ADJOINING NORTHWEST BOB. THE MADDEN JULIAN OSCILLATION INDEX IS CURRENTLY IN PHASE 6 WITH AMPLITUDE MORE THAN 1 AND IS NOT FAVOURABLE FOR INTENSIFICATION. IT WILL CONTINUE IN SAME PHASE DURING NEXT 5 DAYS. WIND SHEAR IS MODERTE 15-20 KNOTS OVER THE SYSTEM AREA. IT IS BECOMING HIGHER TOWARDS NORTHWEST BOB. POSITIVE LOW LEVEL VORTICITY IS ABOUT 150x10⁻⁶S⁻¹ AROUND THE SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS 5-10x10⁻⁶S⁻¹ TO THE NORTHEAST OF THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS 10-20x10⁻⁵S⁻¹ TO THE NORTH OF SYSTEM CENTRE. THUS, ENVIRONMENTAL FEATURES ARE FAVOURABLE FOR SLIGHT INTENSIFICATION OF SYSTEM. UPPER TROPOSPHERIC RIDGE RUNS ALONG 17¹N. THE TROUGH IN MID & UPPER TROPOSPHERIC WESTERLIES NOW RUNS ALONG LONG. 73.0°E TO THE NORTH OF LAT. 20°N. AS THE SYSTEM COMES CLOSER TO THE RIDGE, AT NEARLY AROUND 0000UTC OF 4TH NOV. IT WILL CROSS THE RIDGE AND WILL BE NORTH-NORTHEASTWARDS, UNDER THE INFLUENCE 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 FURTHER INTENSIFY SLIGHTLY DURING NEXT 24 HOURS. MOST OF THE MODELS INDICATE THAT IT IS LIKELY TO RECURVE NORTH-NORTHEASTWARDS AND MOVE ALONG ODISHA

NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 4th DECEMBER 2021.

(D R Pattanaik) Scientist-F, RSMC, New Delhi

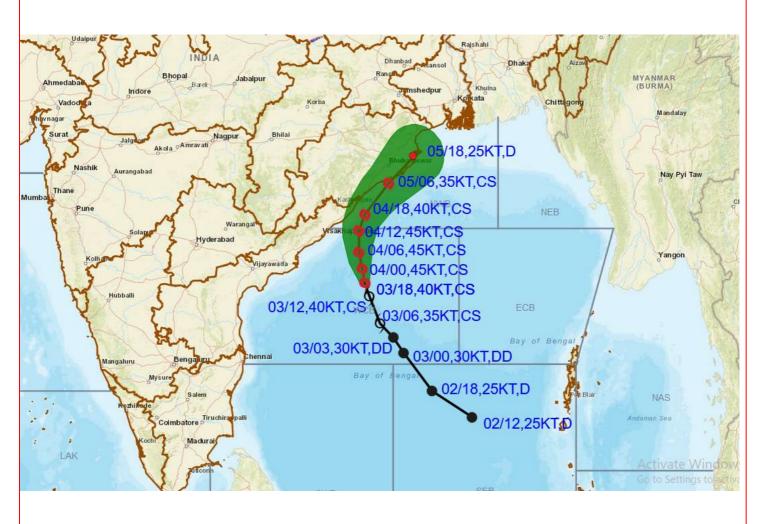




Doppler Weather RADAR imagery from Vishakhapatnam, depicting convective clouds over north Coastal Andhra Pradesh and south Odisha.



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 1800 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)

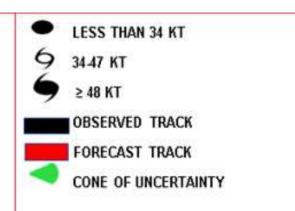
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

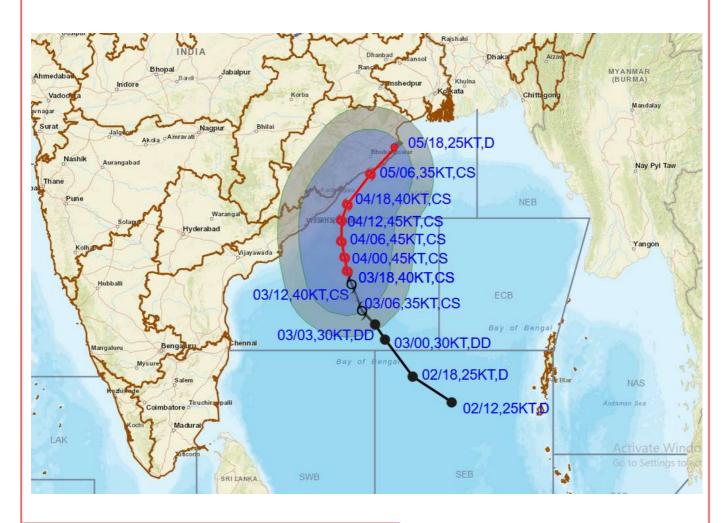
Sucs: SUPER CYCLONIC STORM (2 120 KT)



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OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 1800 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)

•	LESS THAN 34 KT
6	34-47 KT
6	≥ 48 KT
	OBSERVED TRACK
	FORECAST TRACK
	CONE OF UNCERTAINTY
AREA	OF MAXIMUM SUSTAINED WIND SPEED:
	28-33 KT (52-61 KMPH)
6	34-49 KT (62-91 KMPH)
	50-63 KT (92-117 KMPH)
	≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA				
MSW (knot/kmph)	Impact	Action		
28-33 (52-61)	Very rough seas	Total suspension of fishing operations		
34-49 (62-91)	High to very high seas	Total suspension of fishing operations		
50-63 (92-117)	Very high seas	Total suspension of fishing operations		
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations		

Fishermen Warning

INDIA METEOROLOGICAL DEPARTMENT FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

