

India Meteorological Department (Ministry of Earth Sciences)

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Sub: Cyclonic Storm 'JAWAD' over westcentral Bay of Bengal: Cyclone Warning for north Andhra Pradesh and Odisha coasts – Orange Message.

The **Cyclonic Storm 'JAWAD'** (Pronounced as JOWAD) over westcentral Bay of Bengal moved slightly northwards with a speed of 04 kmph during past 06 hours and lay centered at 0530 hrs IST of today, the 04th December 2021, over westcentral Bay of Bengal near Lat. 16.2°N and Long. 84.9°E, about 230 km southeast of Vishakhapatnam (Andhra Pradesh), 340 km south of Gopalpur (Odisha), 410 km south-southwest of Puri (Odisha) and 490 km south-southwest of Paradip (Odisha).

It is likely to weaken gradually and move nearly northwards during next 12 hours and then north-northeastwards along Odisha coast reaching near Puri around 5th December noon as a Deep Depression. Subsequently, it is likely to weaken further and continue to move north-northeastwards along Odisha coast towards West Bengal coast.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. ⁰ N/ long. ⁰ E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
04.12.21/0530	16.2/84.9	70-80 gusting to 90	Cyclonic Storm
04.12.21/1130	16.5/84.8	65-75 gusting to 85	Cyclonic Storm
04.12.21/1730	17.2/84.8	60-70 gusting to 80	Cyclonic Storm
04.12.21/2330	17.9/85.0	55-65 gusting to 75	Deep Depression
05.12.21/0530	18.6/85.3	50-60 gusting to 70	Deep Depression
05.12.21/1730	19.6/86.0	45-55 gusting to 65	Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

4th Dec.: Light to moderate rainfall at most places with heavy to very heavy rainfall & extremely heavy falls at isolated places very likely over coastal Odisha; heavy to very heavy rainfall at isolated places over north Coastal Andhra Pradesh, interior Odisha and heavy rainfall over coastal districts of Gangetic West Bengal.

5th Dec.: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal & north Odisha and heavy rainfall at isolated places over Assam & Meghalaya, Mizoram and Tripura.

6th Dec.: Light to moderate rainfall at many places with heavy rainfall at isolated places likely over Assam & Meghalaya, Mizoram and Tripura.

(ii) Wind warning

- Gale wind, speed reaching 70-80 kmph gusting to 90 kmph, prevails over westcentral Bay of Bengal. It would gradually decrease becoming 60-70 kmph gusting to 80 kmph over northwest and adjoining westcentral Bay of Bengal by mid-night of today, the 4th December. It would decrease further becoming 50-60 gusting to 70 kmph from the morning of 5th December over northwest Bay of Bengal.
- Squally winds, speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along & off North Andhra Pradesh–Odisha coasts during next 12 hours. It will gradually increase becoming 55-65 gusting to 75 kmph till morning of 5th and squally winds 50-60 kmph gusting to 70 kmph from 5th morning till afternoon. It would decrease thereafter gradually.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph also likely to commence along & off West Bengal coast from 4th December evening till the evening of 5th December and gradually decrease thereafter.

(iii) Sea condition

- High Sea conditions likely to prevail over westcentral & adjoining northwest Bay of Bengal during next 12 hours. It is likely to be Very Rough over northwest & adjoining west-central Bay of Bengal from midnight of 04th till evening of 5th December and improve thereafter.
- Rough to Very Rough Sea conditions will prevail along & off North Andhra Pradesh Odisha & West Bengal coasts till 5th December evening.

(iv) Fishermen Warning

Fishermen are advised not to venture into westcentral & northwest Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts on 04th & 05th December 2021.

(v) Advisory to along & off shore Installations

The off-shore & alongshore operations along north Andhra Pradesh, Odisha & West Bengal coasts are advised to be suspended on 04th December 2021 to ensure safety of life & property.

(vi) EXPECTED IMPACT & ACTION SUGGESTED (For Srikakulam, Vizianagaram & Vishakhapatnam districts of north Coastal Andhra Pradesh; Gajapati, Ganjam, Puri, Nayagarh, Khurda, Cuttack, Jagatsinghpur & Kendrapara districts of Odisha)

A. Impact Expected

- Damage to thatched houses/ huts and possible of damage to vulnerable structure.
- ▶Breaking of tree branches, uprooting of small trees.
- >Localized Flooding, water logging and inundation in low lying areas due to Heavy rain.
- Occasional reduction in visibility due to heavy rainfall.
- ➤ Disruption of traffic in roads of major cities due to water logging leading to delayed travel.
- Minor damage to kutcha roads.
- ➤ Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation. Damage to banana, Papaya & Moring (Drumstick) trees due to strong winds.

B. Action Suggested

- ➤ Total suspension of fishing operations.
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- ➤ Avoid staying in vulnerable structure.

Next Bulletin will be issued at 1130 hrs IST of today, the 04th December 2021.

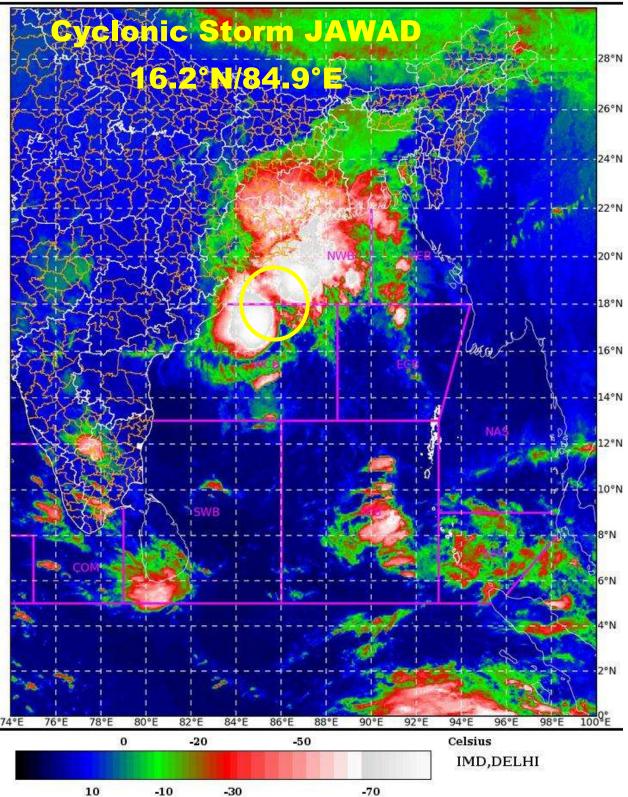
(D R Pattanaik) Scientist-F, RSMC, New Delhi

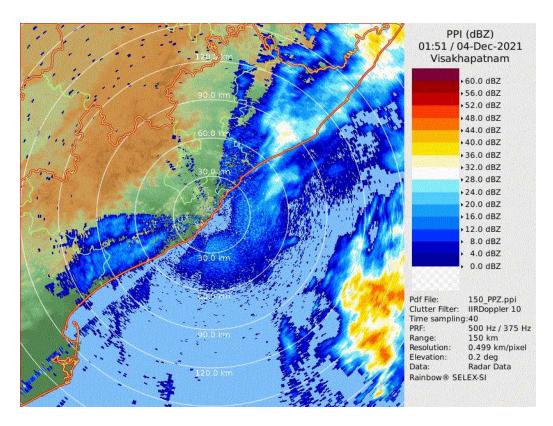
Copy to: ACWC Kolkata/ CWC Vishakhapatnam/CWC Bhubaneswar/RMC Guwahati *LEGEND*: **Heavy Rainfall**: 64.5 to 115.5mm, **Very Heavy Rainfall**: 115.6 to 204.4mm **Most Places**: more than 76% of total stations, **Isolated Places**: Less than 25% of total stations

04-12-2021/(0100 to 0126) GMT 04-12-2021/(0630 to 0656) IST

L1C Mercator



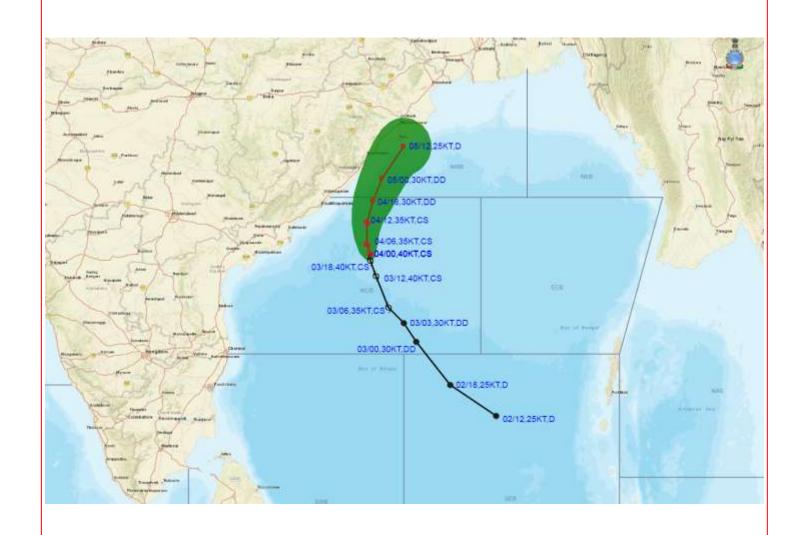




Doppler Weather RADAR imagery from Vishakhapatnam, depicting convective clouds over north Coastal Andhra Pradesh and south Odisha.



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 4th DECEMBER, 2021



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

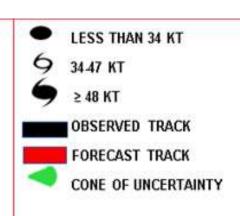
D: DEPRESSION (17-27 KT)

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)

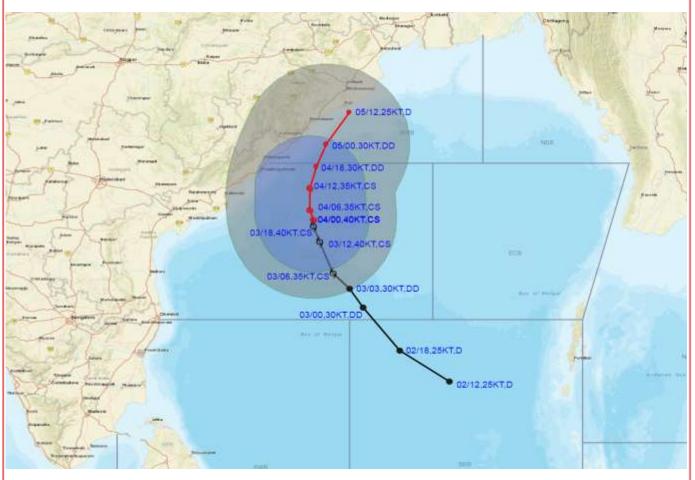
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (2 120 KT)





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 4th 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)
	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		

Sub-division wise heavy rainfall warning for next 5

