



Government of India
Ministry of Earth Sciences



India Meteorological Department

PRESS RELEASE - 2

Time of issue: 1330 hours IST

Dated: 04-12-2021

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

Yesterday's cyclonic storm "JAWAD" (pronounced as JOWAD) moved north-northwestwards and lay centered at 0830 hrs IST of today, the 04th December 2021, over westcentral Bay of Bengal near latitude 16.4°N and longitude 84.8°E, about 210 km east-southeast of Vishakhapatnam (Andhra Pradesh), 320 km south of Gopalpur (Odisha), 390 km south-southwest of Puri (Odisha) and 470 km south-southwest of Paradip (Odisha).

It is likely to move nearly northwards, **weaken gradually** during next 12 hours and then move 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. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
04.12.21/0830	16.4/84.8	70-80 gusting to 90	Cyclonic Storm
04.12.21/1130	16.6/84.8	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 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 south 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 speed reaching 50-60 kmph gusting to 70 kmph from 5th morning till afternoon. It would decrease thereafter gradually.

Contact: Cyclone Warning Division, Office of the Director General of Meteorology,
India Meteorological Department, Ministry of Earth Sciences.

Phone: (91) 11-24652484, FAX: (91) 11-24643128, 24623220, E-mail: cwdhq2008@gmail.com, Website: rsmcnweldelhi.imd.gov.in

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

- 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 district 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.

The system is under continuous surveillance and the concerned state governments are being informed regularly.

Kindly visit www.rsmcnewdelhi.imd.gov.in and www.mausam.imd.gov.in for regular updates.

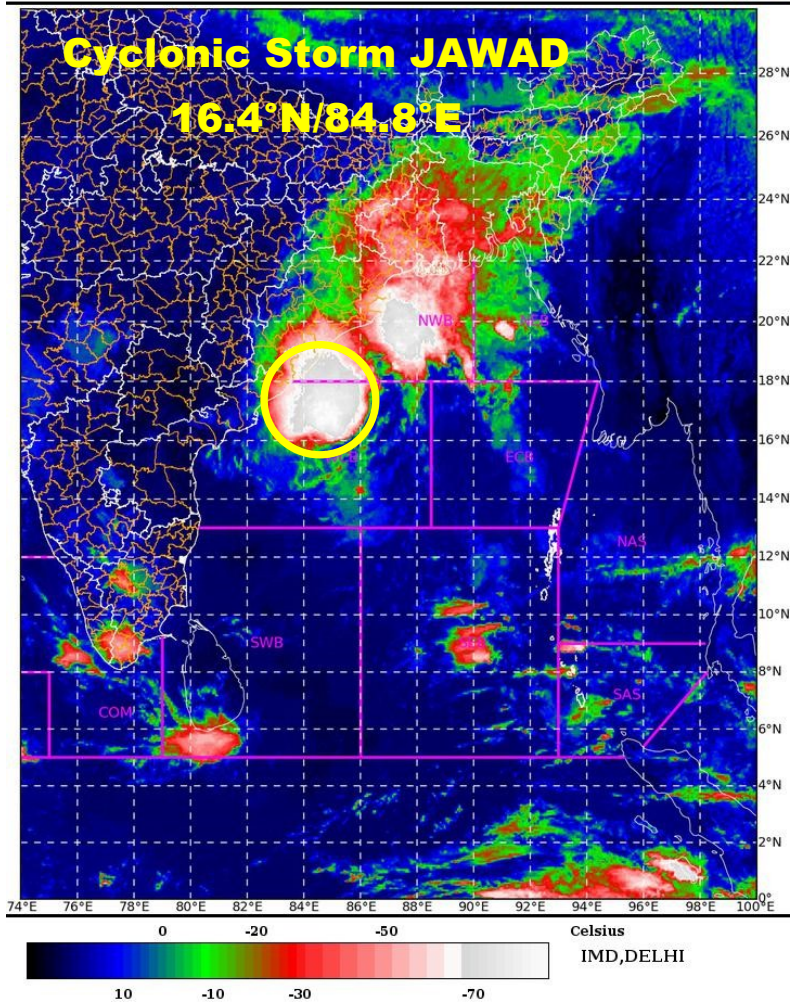
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SAT : INSAT-3D IMG 04-12-2021/(0500 to 0527) GMT
IMG_TIR1_TEMP 10.8 um 04-12-2021/(1030 to 1057) IST
L1C Mercator

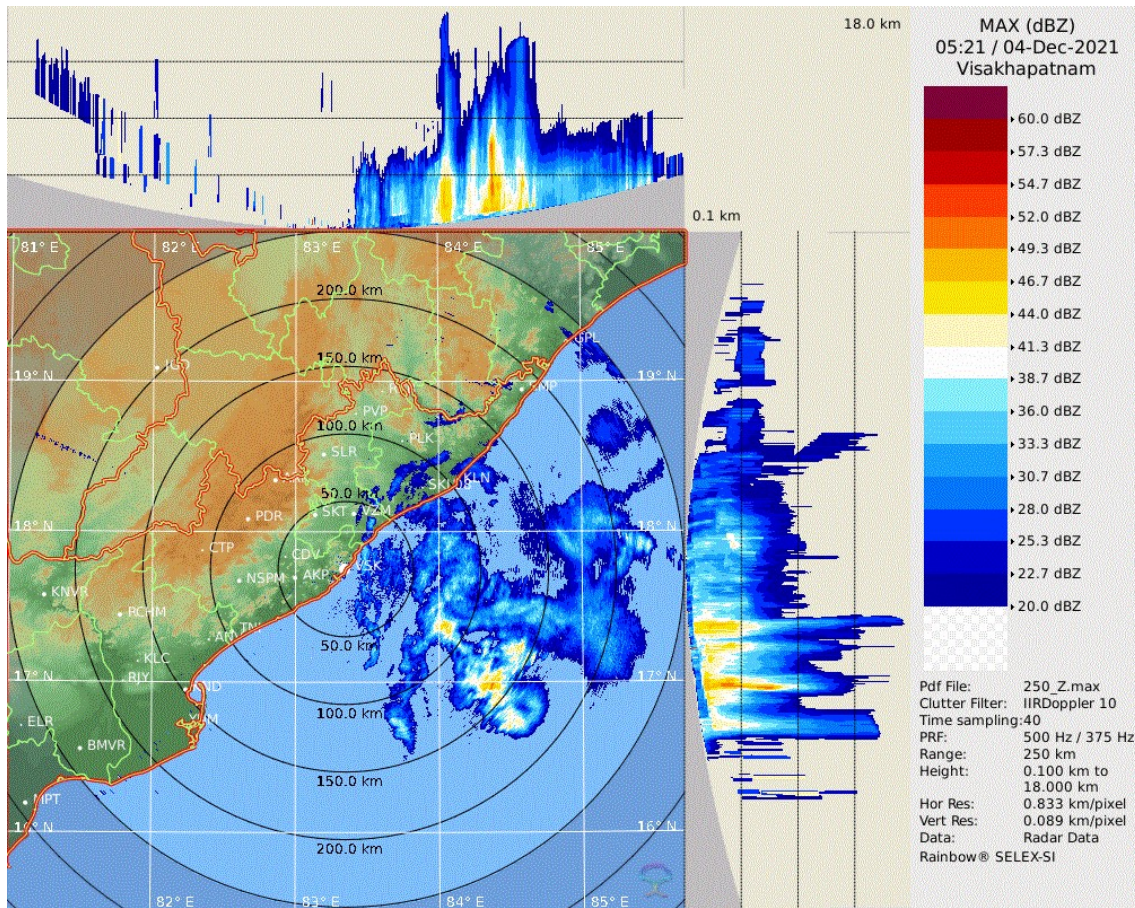


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Doppler Weather RADAR imagery Vishakhapatnam

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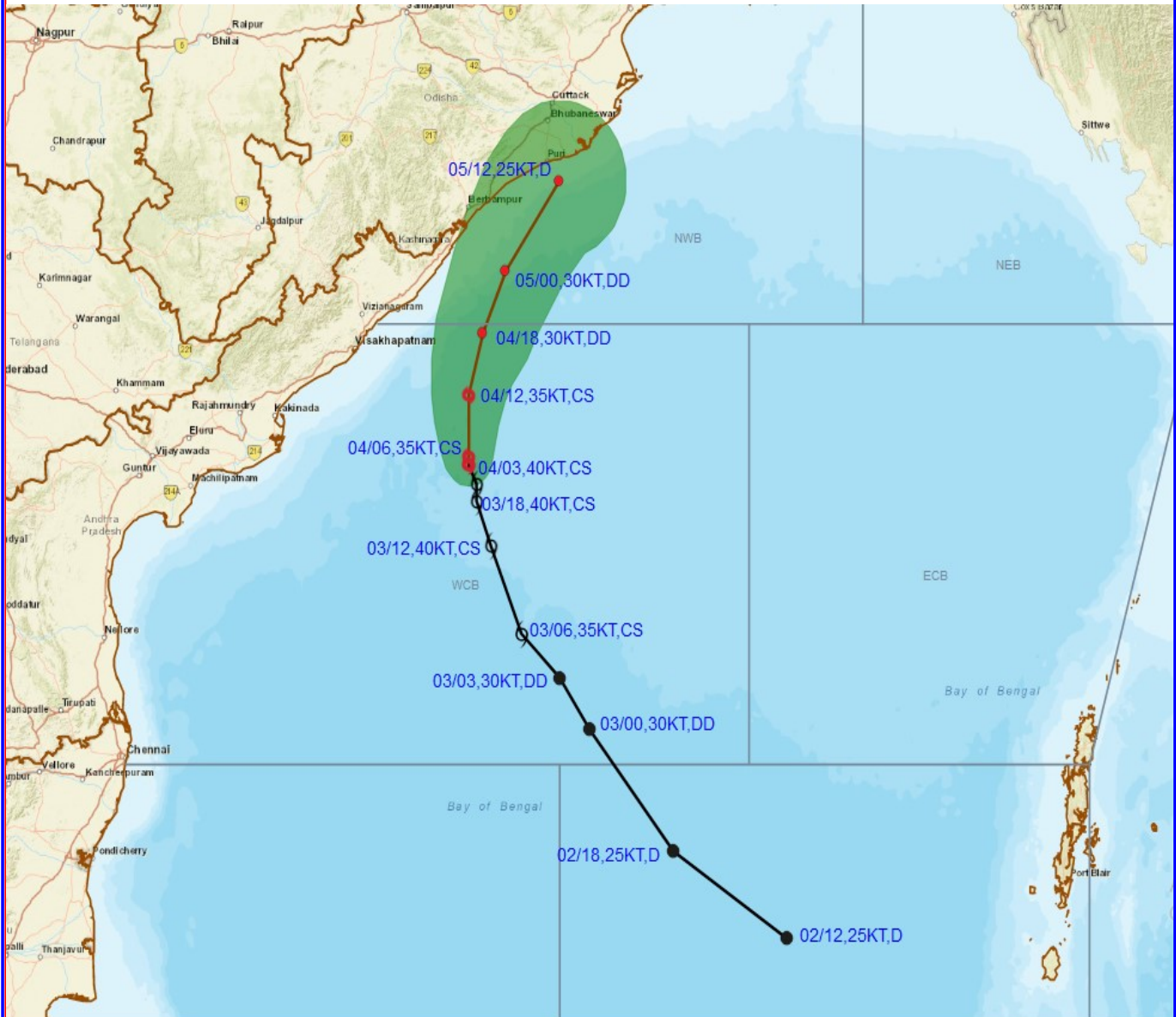
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OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 4th DECEMBER, 2021



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 (\geq 120 KT)

LESS THAN 34 KT

34-47 KT

\geq 48 KT

OBSERVED TRACK

FORECAST TRACK

CONE OF UNCERTAINTY

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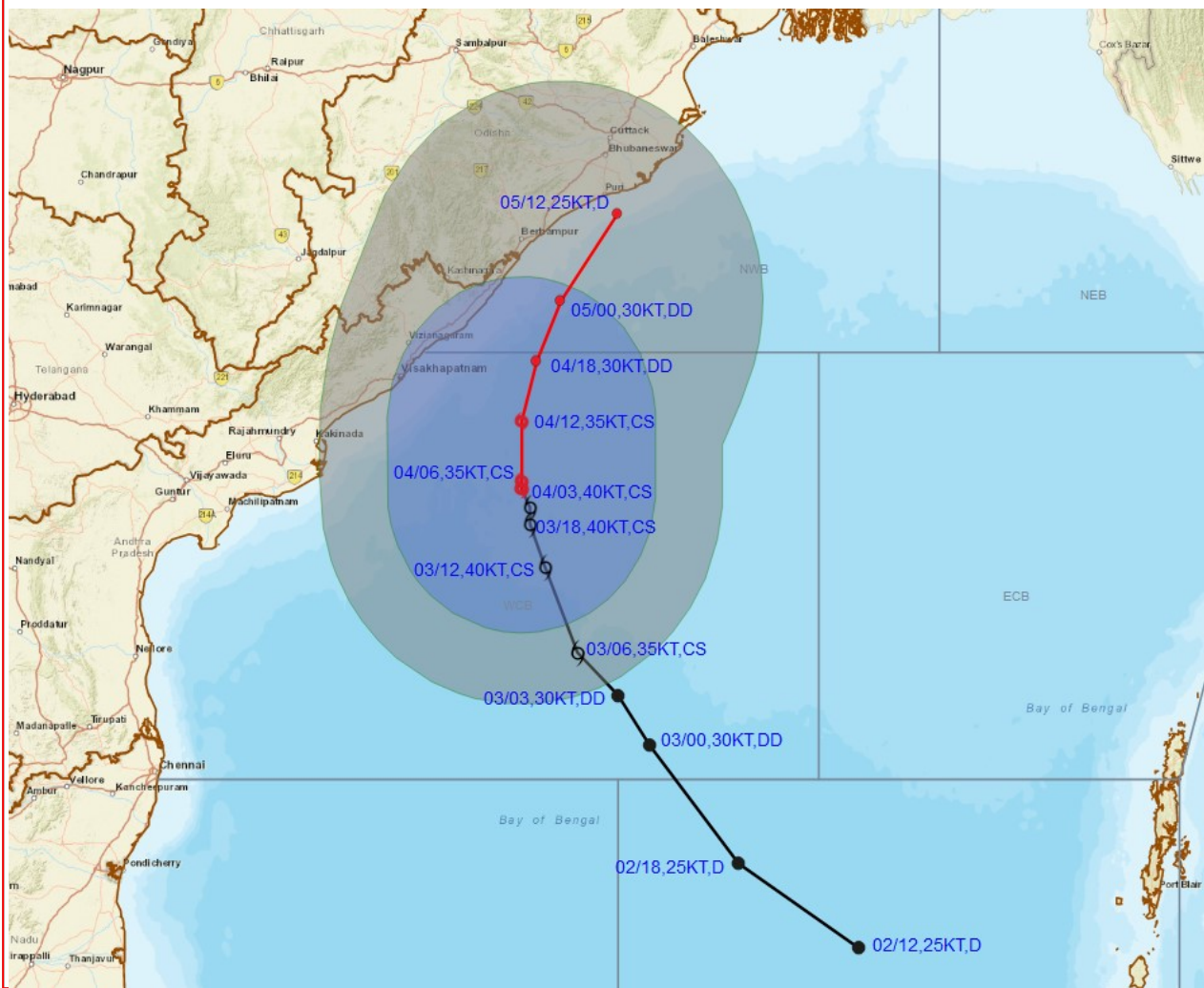
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Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 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)

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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

○ 34-47 KT

⦿ ≥ 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

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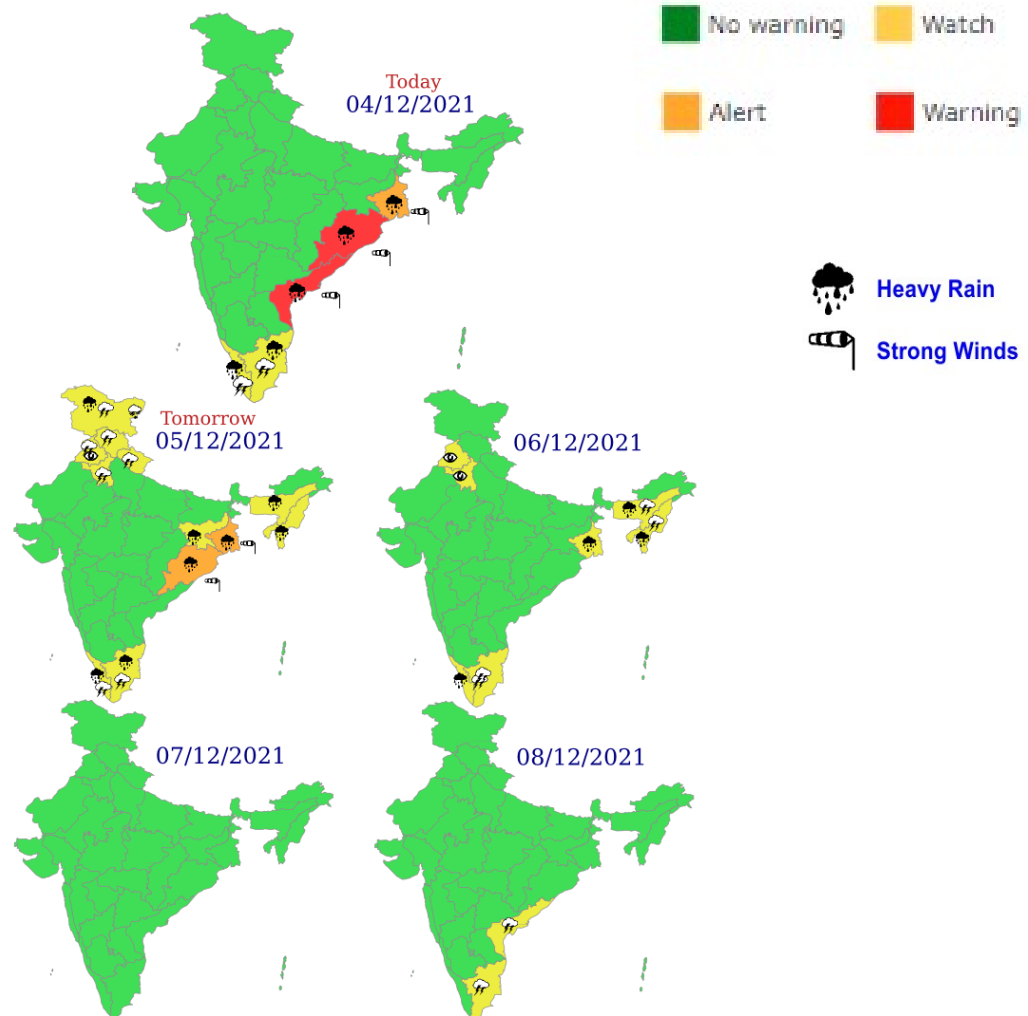
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Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Sub-division wise heavy rainfall warning for next 5 days



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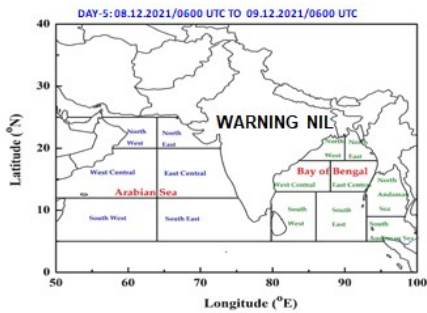
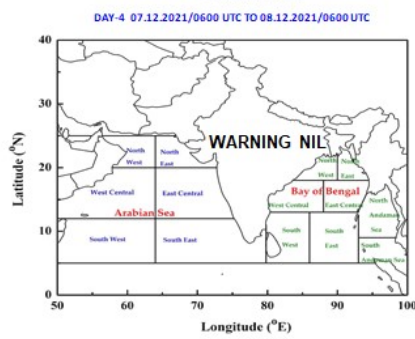
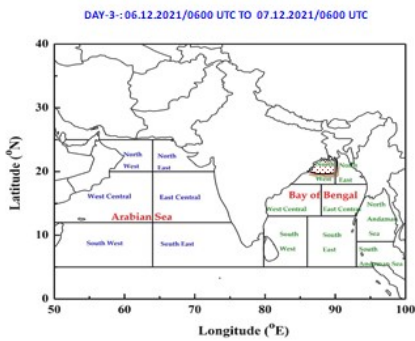
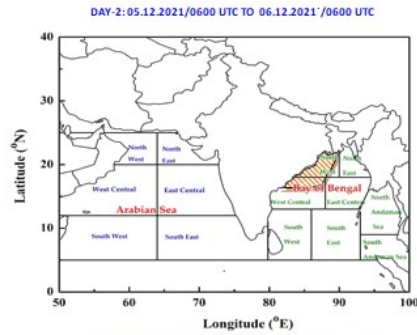
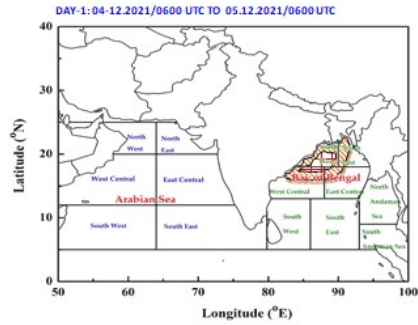
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Fishermen Warning Graphics

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



AREA UNDER FISHERMEN WARNING

- 40-50 KMPH G TO 60 KMPH (SQ.WEATHER)
- 45-55 KMPH G TO 65 KMPH
- 50-60 KMPH G TO 70 KMPH
- 60-70 KMPH G TO 80 KMPH
- 70-80 KMPH G TO 90 KMPH
- 80-90 KMPH G TO 95 KMPH
- 90-100 KMPH G TO 110 KMPH

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