



India Meteorological Department
(Ministry of Earth Sciences)

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Sub: Cyclonic Storm 'JAWAD' weakened into a Deep Depression over westcentral Bay of Bengal

The **Cyclonic Storm 'JAWAD'** (Pronounced as JOWAD) over westcentral Bay of Bengal moved northwards with a speed of 9 kmph during past 06 hours, weakened into a **Deep Depression** and lay centered at 1730 hrs IST of today, the 04th December 2021, over westcentral Bay of Bengal near Lat. 16.9°N and Long. 84.8°E, about 180 km east-southeast of Vishakhapatnam (Andhra Pradesh), 260 km south of Gopalpur (Odisha), 330 km south-southwest of Puri (Odisha) and 420 km south-southwest of Paradip (Odisha).

It is likely **to** move north-northeast wards and **weaken further into a Depression** by tomorrow morning. It is likely to reach Odisha coast near Puri around tomorrow noon. Subsequently, it is likely to continue to move north-northeastwards along Odisha coast towards West Bengal coast and weaken into a well marked low pressure area during subsequent 24 hours.

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
04.12.21/1730	16.9/84.8	55-65 gusting to 75	Deep Depression
04.12.21/2330	17.8/85.0	50-60 gusting to 70	Deep Depression
05.12.21/0530	18.5/85.4	45-55 gusting to 65	Deep Depression
05.12.21/1130	19.4/86.0	40-50 gusting to 60	Deep Depression
05.12.21/1730	20.1/86.7	35-45 gusting to 55	Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

4th Dec.: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places very likely over coastal Odisha, north Coastal Andhra Pradesh, and **heavy rainfall** at isolated places over adjoining 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

- Squally wind speed reaching 55-65 kmph gusting to 75 kmph prevails over westcentral Bay of Bengal. It would gradually decrease becoming 45-55 kmph gusting to 65 kmph over northwest and adjoining westcentral Bay of Bengal by tomorrow morning. It would decrease further becoming 35-45 kmph gusting to 55 kmph by tomorrow evening over northwest Bay of Bengal.
- Squally winds speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along & off North Andhra Pradesh coast during next 12 hours and along & off Odisha coast during next 24 hours.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph also likely to commence along & off West Bengal coast during next 24 hours

(iii) Sea condition

- Rough to very rough Sea conditions likely to prevail over northwest & adjoining westcentral Bay of Bengal and along & off North Andhra Pradesh – Odisha & West Bengal coasts during next 24 hours.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into westcentral & northwest Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts during next 24 hours.

(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, Khurda, Cuttack, Jagatsinghpur & Kendrapara districts of Odisha) during next 12 hours.

A. Impact Expected

- Breaking of tree branches.
- Localized Flooding, water logging and inundation in low lying areas due to Heavy rain.
- Disruption of traffic in roads of major cities due to water logging leading to delayed travel.
- Minor damage to kutcha roads.
- 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

- Fishermen are advised not to venture into westcentral & northwest Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts during next 24 hours.
- 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.
- Stay in safe places.

Next Bulletin will be issued at 0230 hrs IST of tomorrow, the 05th December 2021.

(Sunitha Devi. S)
Scientist-F, RSMC, New Delhi

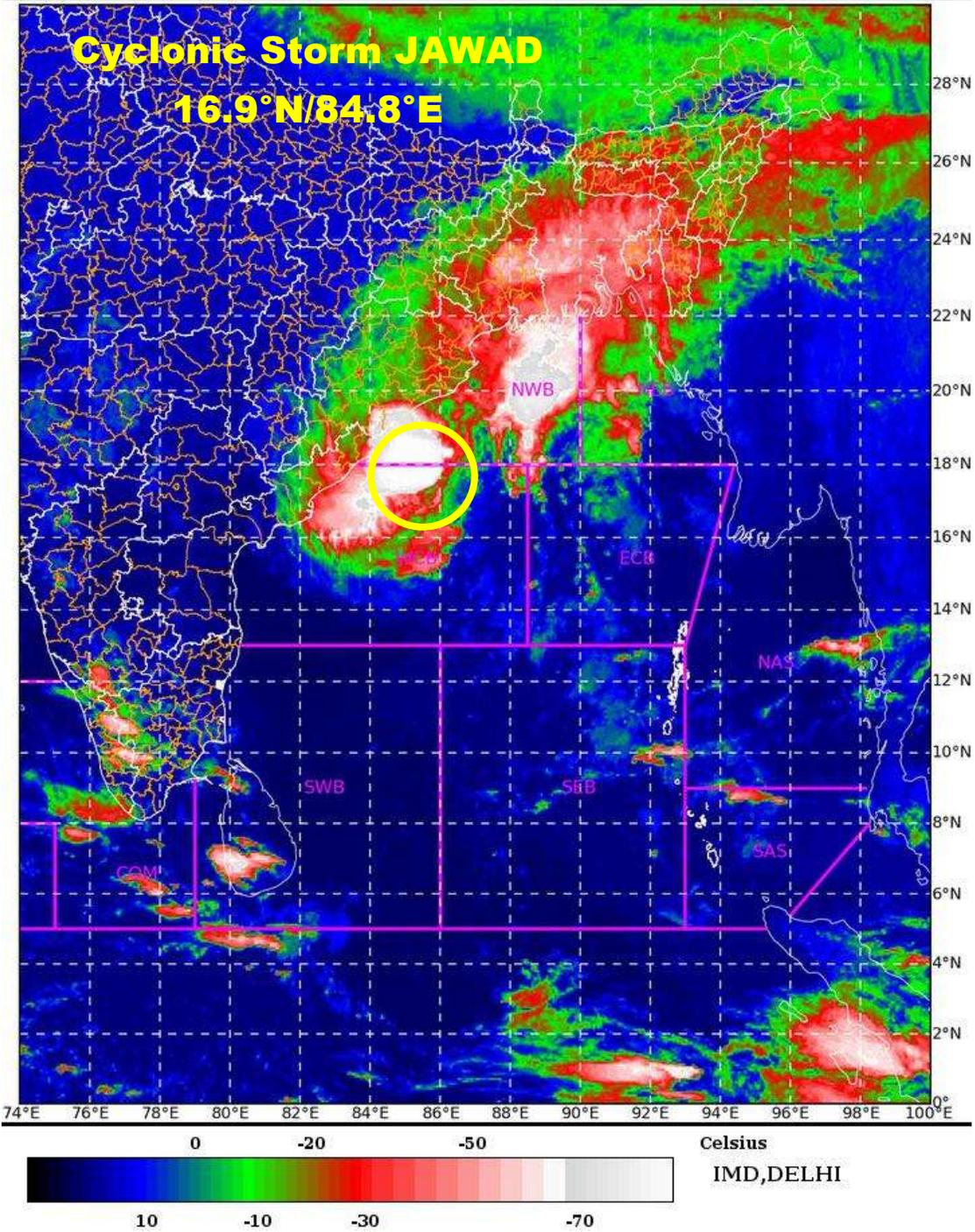
Copy to: ACWC Kolkata/ CWC Vishakhapatnam/CWC Bhubaneswar/RMC Guwahati

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

SAT : INSAT-3D IMG 04-12-2021/(1200 to 1226) GMT

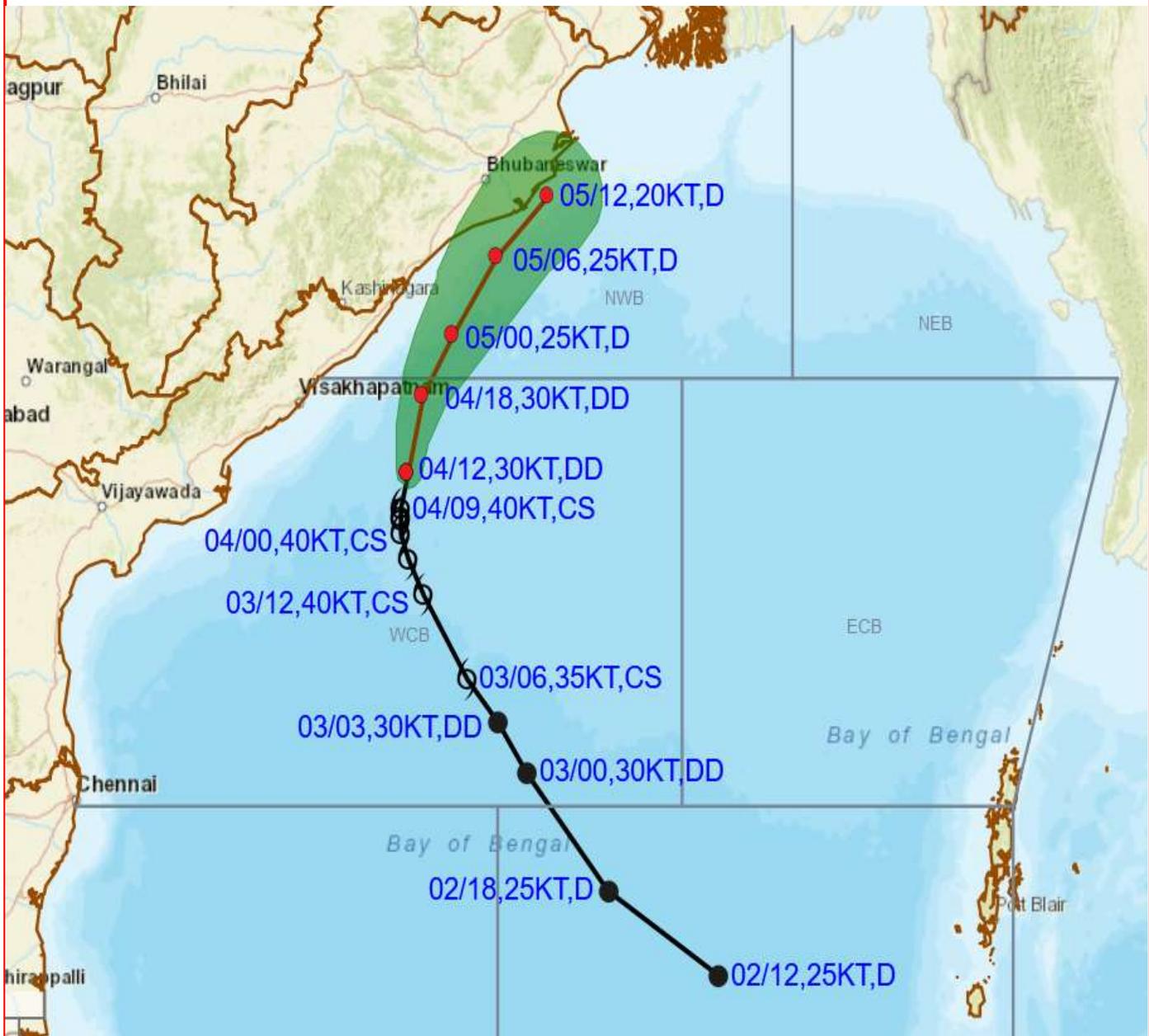
IMG_TIR1_TEMP 10.8 um 04-12-2021/(1730 to 1756) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM 'JAWAD') OVER WESTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 4th DECEMBER,

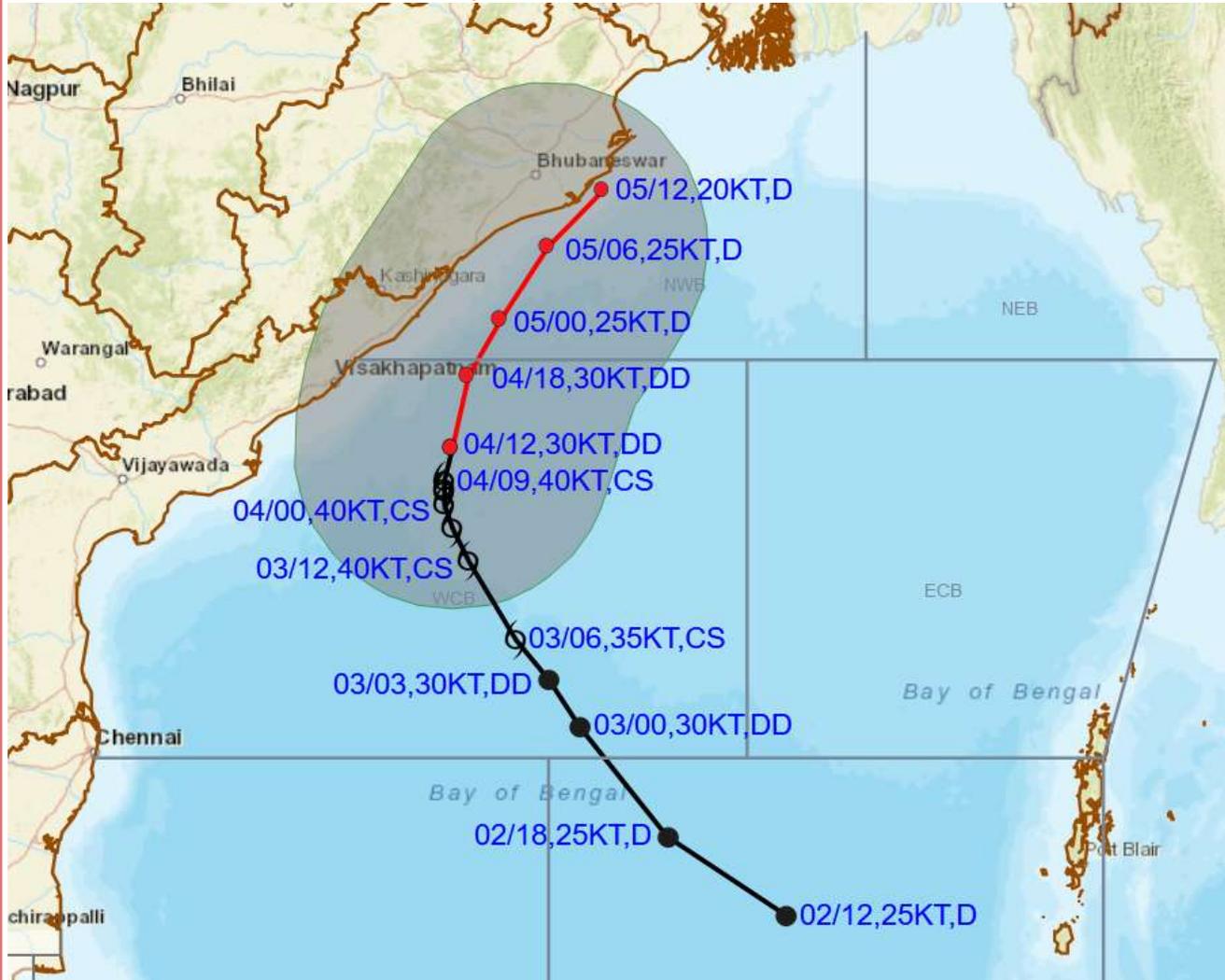


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM 'JAWAD') OVER WESTCENTRAL BAY OF BENGAL BASED ON 1200 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 (48-63 KT)

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)

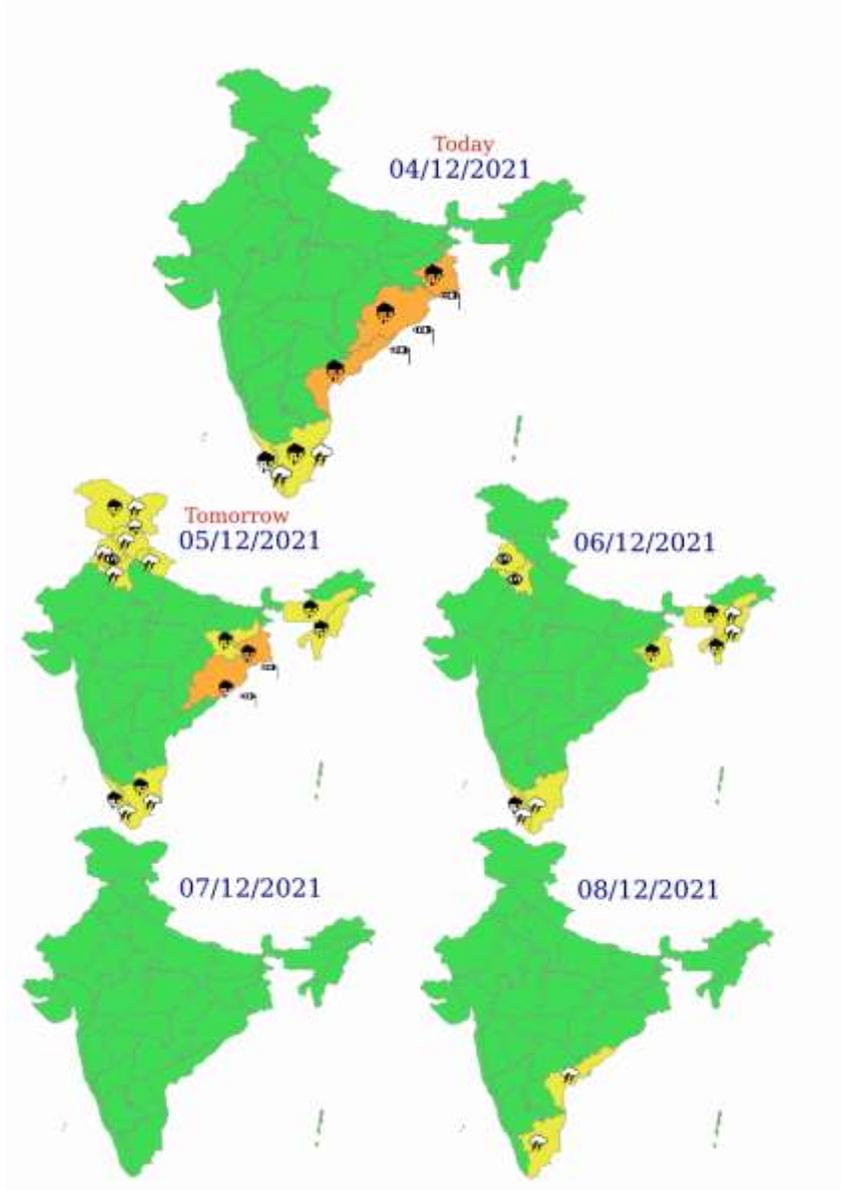
■ 50-63 KT (92-117 KMPH)

■ ≥ 64 KT (≥ 118 KMPH)

IMPACT OVER THE SEA

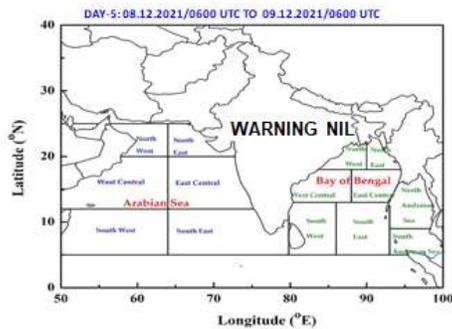
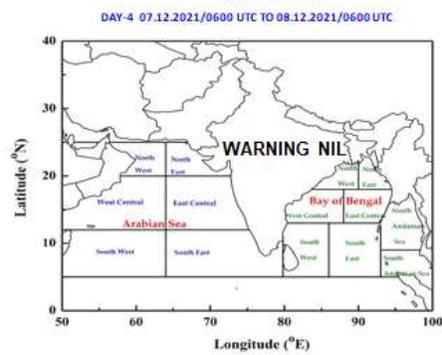
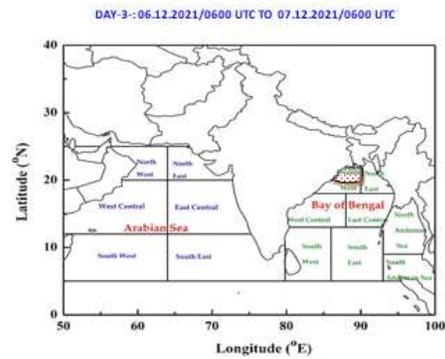
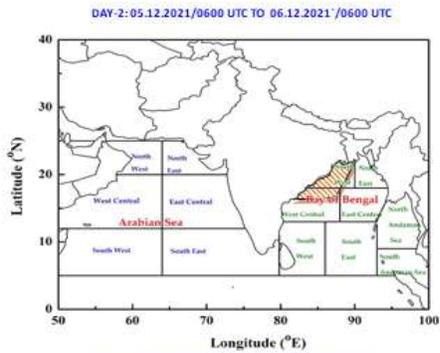
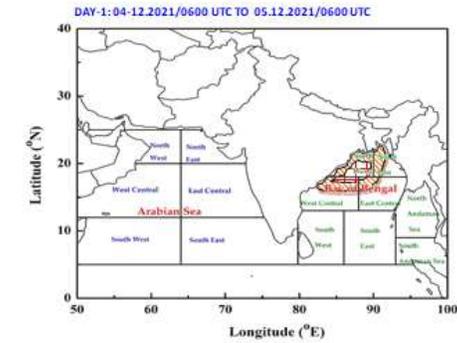
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥ 118)	Phenomenal	Total suspension of fishing operations

Sub-division wise heavy rainfall warning for next 5 days



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 GUSTING 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