



**India Meteorological Department
(Ministry of Earth Sciences)**

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FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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Sub: Deep Depression remnant of Cyclonic Storm 'JAWAD' over northwest and adjoining westcentral Bay of Bengal

The **Deep Depression remnant of Cyclonic Storm 'JAWAD'** (Pronounced as JOWAD) over westcentral Bay of Bengal moved north-northeastwards with a speed of 15 kmph during past 06 hours, and lay centered at 0530 hrs IST of today, the 05th December 2021, over northwest and adjoining westcentral Bay of Bengal near Lat. 18.2°N and Long. 85.4°E, about 230 km east-northeast of Vishakhapatnam (Andhra Pradesh), 130 km south-southeast of Gopalpur (Odisha), 180 km south-southwest of Puri (Odisha) and 270 km south-southwest of Paradip (Odisha).

It is likely to move north-northeast wards, **weaken further into a Depression** and reach Odisha coast near Puri around noon of today, the 5th December. 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 12 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
05.12.21/0530	18.2/85.4	50-60 gusting to 70	Deep Depression
05.12.21/1130	19.1/85.9	45-55 gusting to 65	Depression
05.12.21/1730	19.8/86.4	40-50 gusting to 60	Depression
05.12.21/2330	20.6/87.3	30-40 gusting to 50	Low Pressure Area

Warnings:

(i) Rainfall (warning graphics enclosed)

5th Dec.: Light to moderate rainfall at many places with **heavy to very heavy rainfall at isolated places** likely over Odisha & Gangetic West Bengal 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 50-60 kmph gusting to 70 kmph prevails over northwest and adjoining westcentral Bay of Bengal. It would gradually decrease becoming 40-50 kmph gusting to 60 kmph over northwest and adjoining westcentral Bay of Bengal by evening of today, the 5th December. It would decrease further becoming 30-40 gusting to 50 kmph over northwest Bay of Bengal by night of today, the 5th December.
- Squally winds speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along & off North Andhra Pradesh coast during next 06 hours and along & off Odisha coast till evening of today.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph also likely to commence along & off West Bengal coast till evening of today, the 5th December.

(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 northwest & adjoining westcentral Bay of Bengal, along & off Odisha-West Bengal coasts during next 24 hours and along and off north Andhra Pradesh during next 12 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 regulated till evening of today, the 05th December 2021.

(vi) EXPECTED IMPACT & ACTION SUGGESTED (For 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 northwest & adjoining westcentral Bay of Bengal, along & off Odisha-West Bengal coasts during next 24 hours and along and off north Andhra Pradesh during next 12 hours.
- Check for traffic congestion on your route due to heavy rain 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 1130 hrs IST of today, the 05th December 2021.

(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi

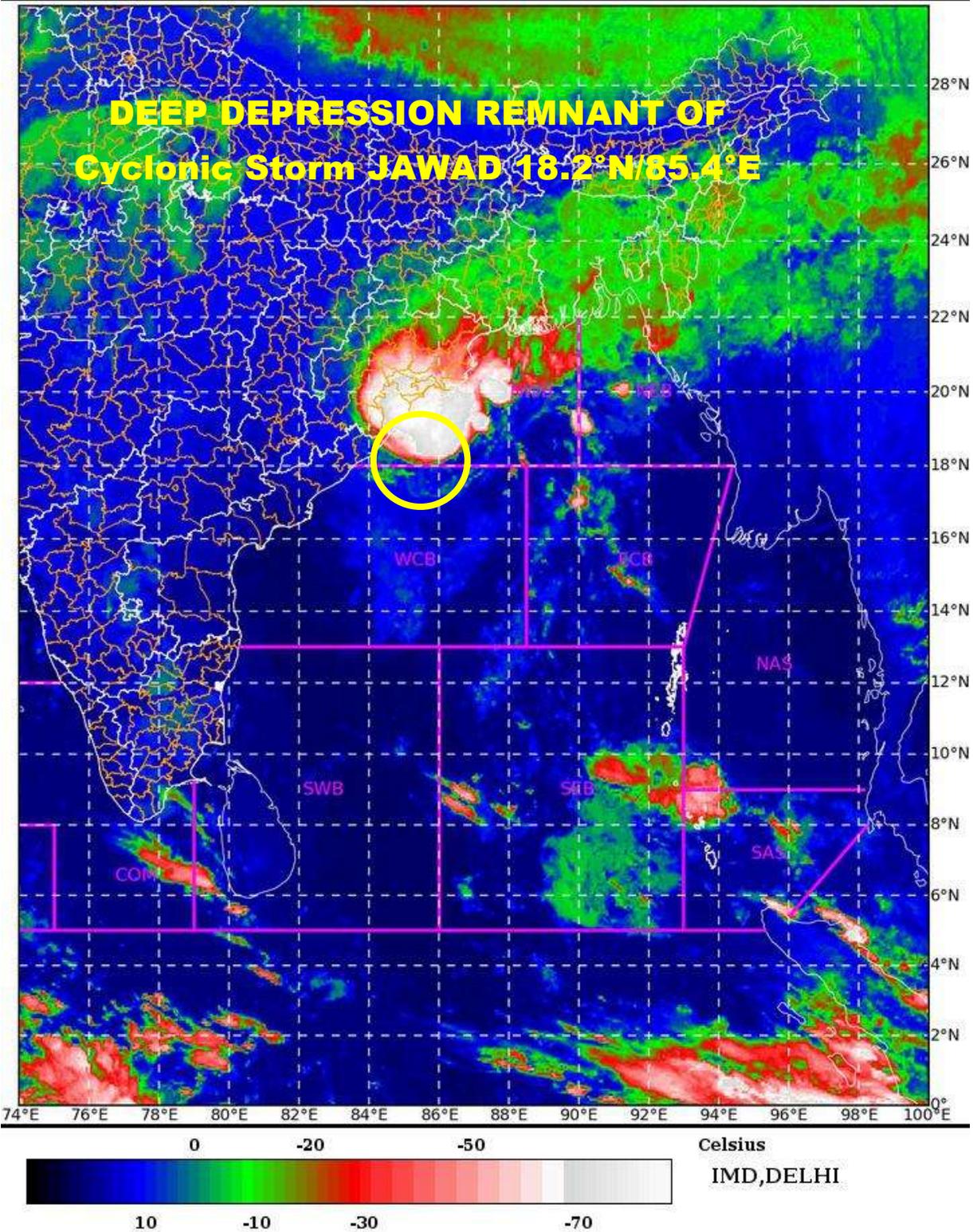
Copy to: ACWC Kolkata/ CWC Vishakhapatnam/CWC Bhubaneswar/RMC Guwahati

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 05-12-2021/(0100 to 0126) GMT

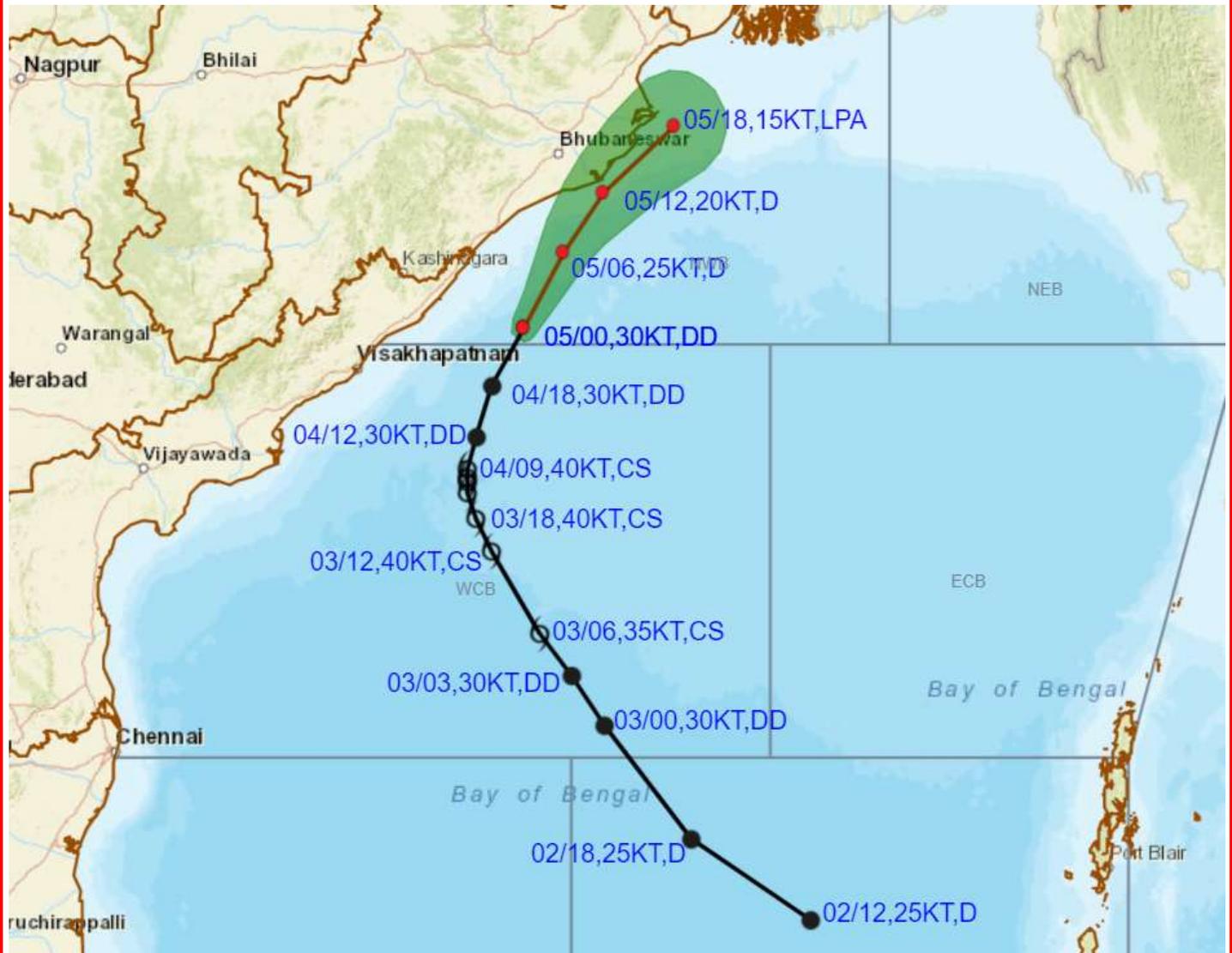
IMG_TIR1_TEMP 10.8 um 05-12-2021/(0630 to 0656) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM 'JAWAD') OVER NORTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 5th 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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM 'JAWAD') OVER NORTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 5th 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

○ 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)

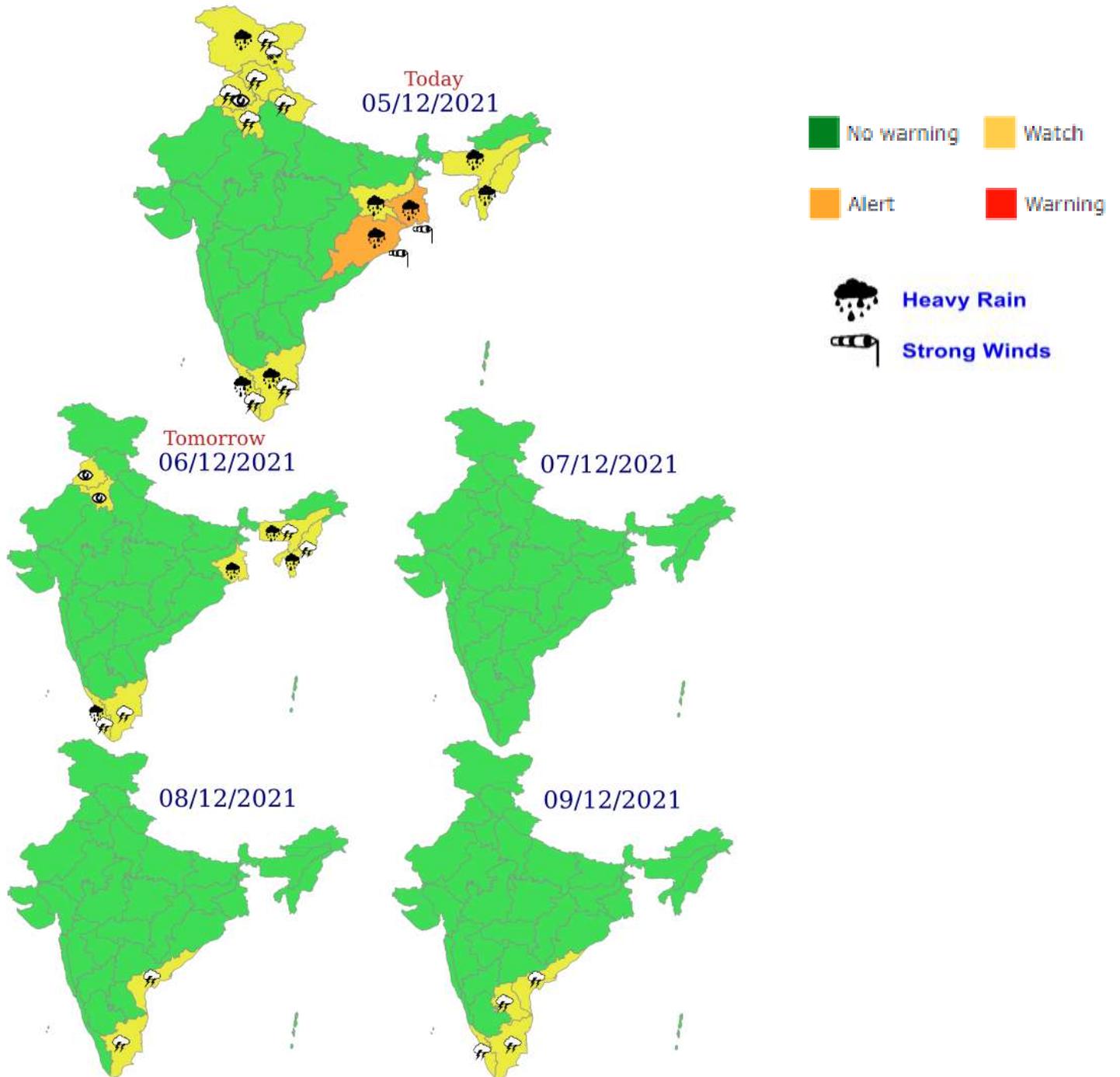
■ 50-63 KT (92-117 KMPH)

■ ≥ 64 KT (≥ 118 KMPH)

IMPACT OVER THE SEA

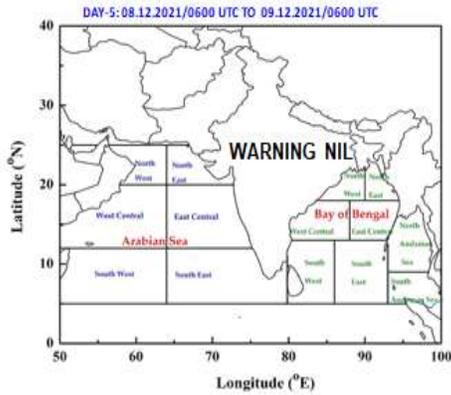
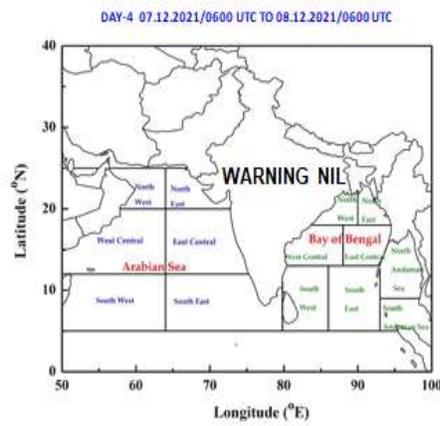
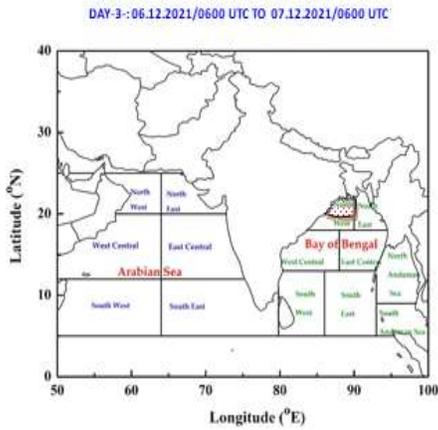
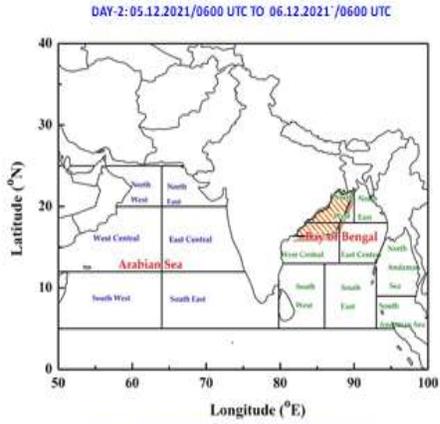
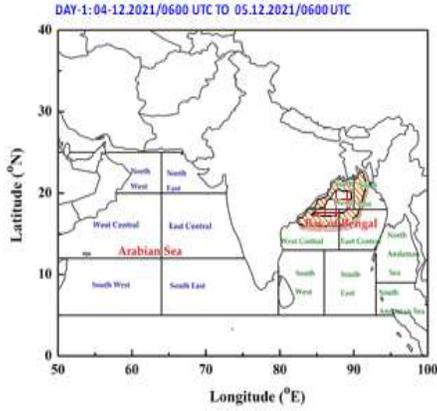
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥ 118)	Phenomenal	Total suspension of fishing operations

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