



India Meteorological Department
(Ministry of Earth Sciences)

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Sub: Depression intensified into a Deep Depression over westcentral and adjoining south Bay of Bengal: Cyclone Alert for north Andhra Pradesh and Odisha coasts.

The **Depression** over southeast Bay of Bengal moved northwestwards with a speed of 32 kmph during past 06 hours, intensified into a **Deep Depression** and lay centered at 0530 hrs IST of today, the 3rd December 2021, over the westcentral and adjoining south Bay of Bengal near Lat. 13.4°N and Long. 86.4°E, about 580 km south-southeast of Vishakhapatnam (Andhra Pradesh), 670 km south-southeast of Gopalpur (Odisha) and 760 km south-southwest of Paradip (Odisha).

It is likely to continue to move northwestwards and intensify into a **Cyclonic Storm** during next 12 hours. It is likely to reach west-central Bay of Bengal off north Andhra Pradesh – south Odisha coasts by tomorrow, the 4th December morning. Thereafter it is likely to recurve north-northeastwards and move along north coastal Andhra Pradesh and Odisha coasts during the subsequent 24 hours with a maximum sustained wind speed of 80-90 kmph gusting to 100 kmph.

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
03.12.21/0530	13.4/86.4	50-60 gusting to 70	Deep Depression
03.12.21/1130	14.2/85.6	60-70 gusting to 80	Cyclonic Storm
03.12.21/1730	15.0/85.0	70-80 gusting to 90	Cyclonic Storm
03.12.21/2330	15.7/84.6	75-85 gusting to 95	Cyclonic Storm
04.12.21/0530	16.4/84.3	80-90 gusting to 100	Cyclonic Storm
04.12.21/1730	17.6/84.2	90-100 gusting to 110	Severe Cyclonic Storm
05.12.21/0530	18.8/85.0	75-85 gusting to 95	Cyclonic Storm
05.12.21/1730	19.6/85.9	60-70 gusting to 80	Cyclonic Storm

Warnings:

(i) Rainfall (warning graphics enclosed)

3rd Dec.: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places over south coastal Odisha and heavy rainfall at isolated places over north coastal Andhra Pradesh.

4th Dec.: Light to moderate rainfall at most places with heavy to very heavy rainfall & extremely heavy falls at isolated places very likely over south coastal Odisha and heavy to very heavy rainfall at isolated places over north coastal Andhra Pradesh, north coastal Odisha & adjoining interior districts and also 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 and Tripura.

6th Dec.: Light to moderate rainfall at many places with heavy to very 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 over westcentral and adjoining southeast & eastcentral Bay of Bengal during next 12 hours.
- Gale winds speed reaching 70-80 kmph gusting to 90 kmph likely to prevail over westcentral & adjoining northwest Bay of Bengal from today evening and gradually increase becoming 90-100 kmph gusting to 110 kmph over northwest & adjoining west-central Bay of Bengal from the evening of 4th December for the subsequent 12 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off North Andhra Pradesh – Odisha coasts from the mid-night of 3rd December and increase gradually becoming 80-90 kmph gusting to 100 kmph from 4th evening, for the subsequent 12 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph also likely to commence along & off West Bengal coast from 4th December evening and become Gale wind speed reaching 60-70 kmph gusting to 80 kmph from the morning of 5th December for the subsequent 12 hours.

(iii) Sea condition

- Sea condition will be rough to very rough over westcentral and adjoining southeast & eastcentral Bay of Bengal till today evening.
- Sea condition would be High over central Bay of Bengal from the evening of today, the 3rd December for subsequent 12 hours and High to very High over west-central & northwest Bay of Bengal from the early morning of 4th December for the subsequent 24 hours.

- Sea condition will be rough to very rough over along & off North Andhra Pradesh – Odisha coast from the mid-night of 3rd December and become High to very High from 4th Afternoon, for the subsequent 12 hours.
- It will be rough to very rough along & off West Bengal coast from 4th morning and very rough to High from the same evening for the subsequent 12 hours.

(iv) Fishermen Warning

Fishermen are advised not to venture into westcentral and adjoining southeast & eastcentral Bay of Bengal on 3rd December, over west-central & northwest Bay of Bengal and along & off north Andhra Pradesh - Odisha- West Bengal coasts during 3rd - 5th December 2021 (Graphics enclosed).

(v) Advisory to along & off shore Installations

The off-shore & alongshore operations along north Andhra Pradesh, Odisha & West Bengal coasts are advised to be judiciously regulated on 3rd December and to be suspended on 4th & 5th 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

- Major damage to thatched houses/ huts.
- Breaking of tree branches, uprooting of trees.
- Minor damage to power and communication lines.
- Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the affected region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation. Damage to banana, Papaya & Moringa (Drumstick) trees.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

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.
- Harvest the ripen crops like Paddy & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.

Next Bulletin will be issued at 1130 hrs IST of 3rd December 2021.

(Sunitha Devi)
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

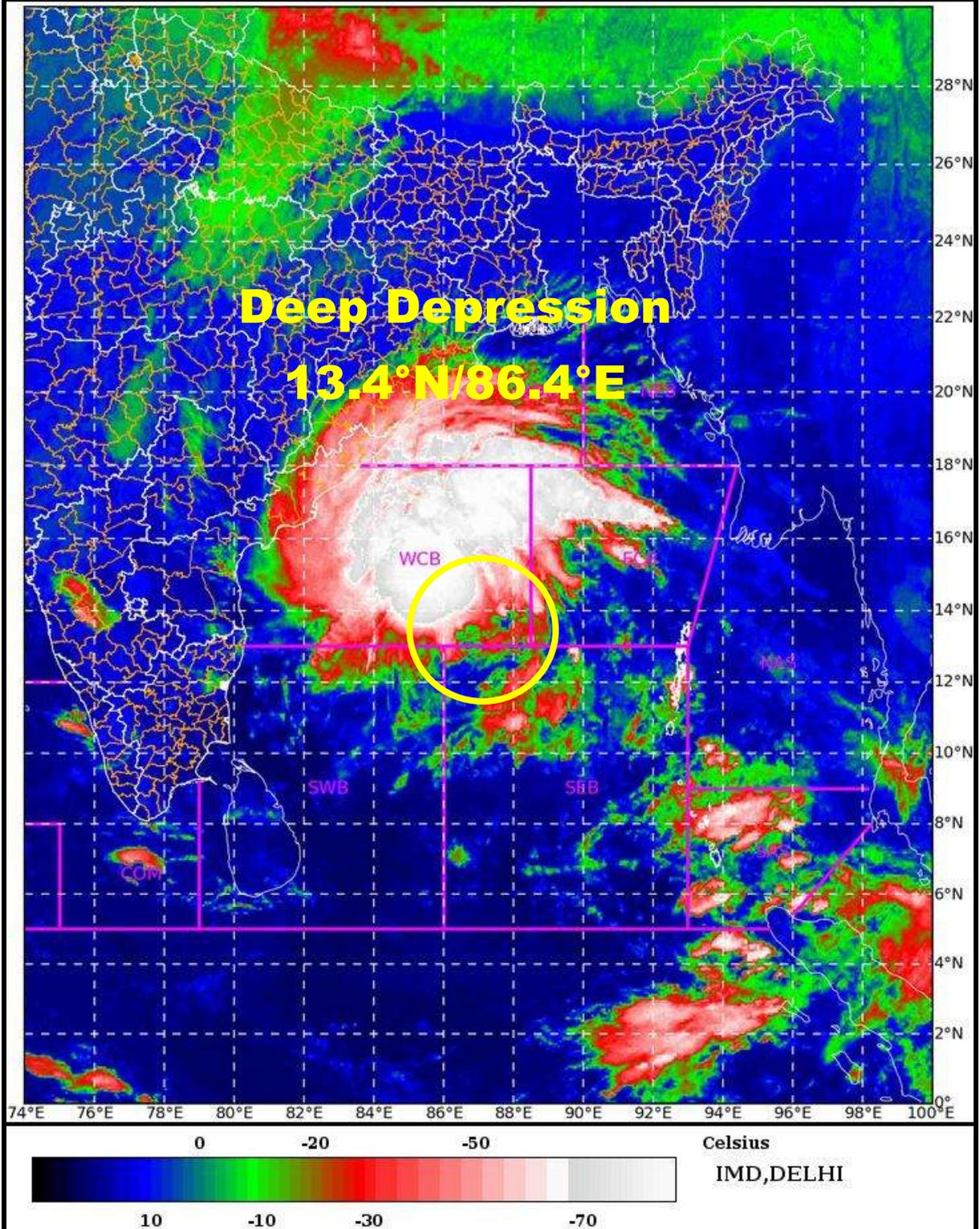
SAT : INSAT-3D IMG

03-12-2021/(0130 to 0156) GMT

IMG_TIR1_TEMP 10.8 um

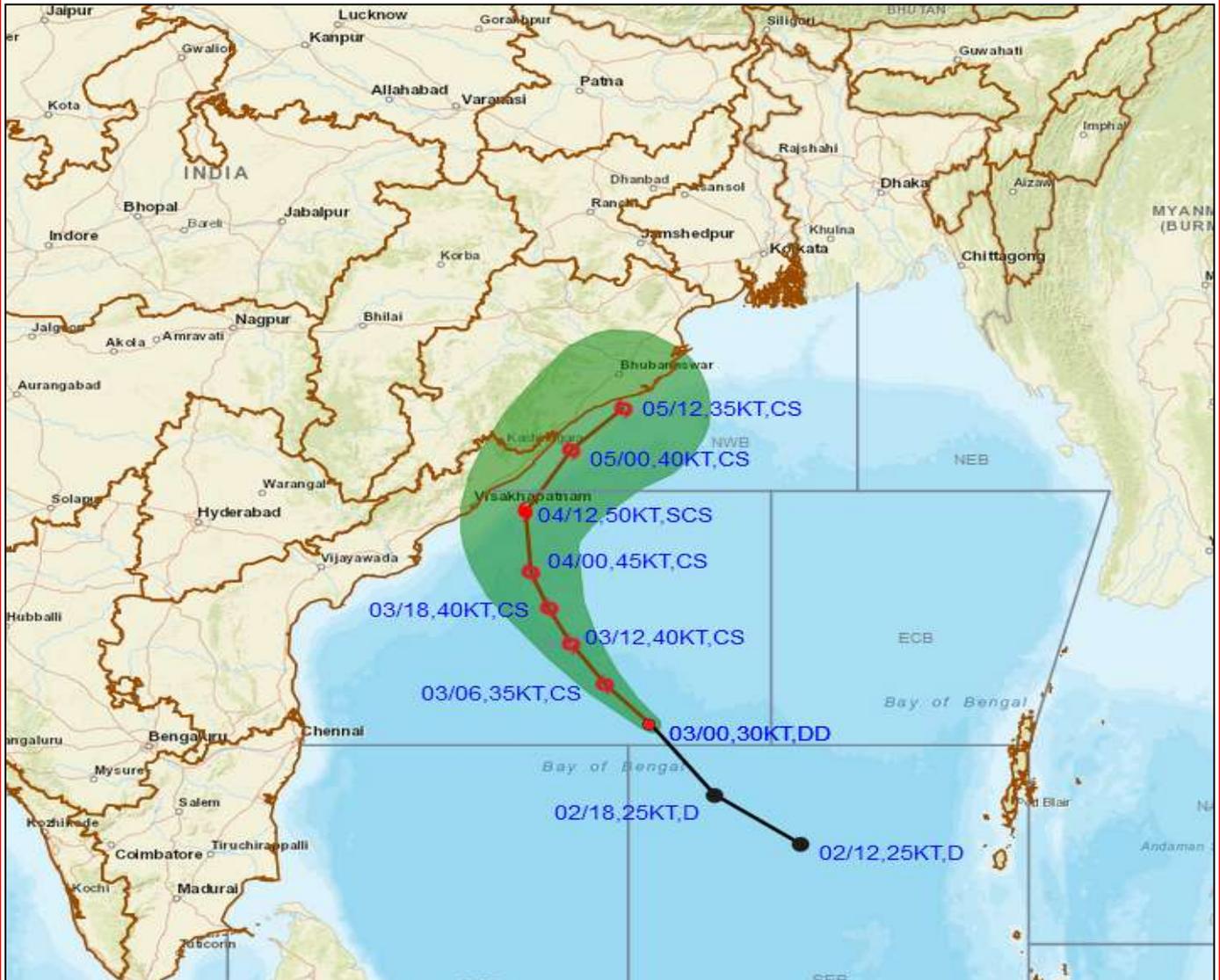
03-12-2021/(0700 to 0726) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER WESTCENTRAL AND ADJOINING SOUTH BAY OF BENGAL BASED ON 0000 UTC OF 3rd DECEMBER, 2021

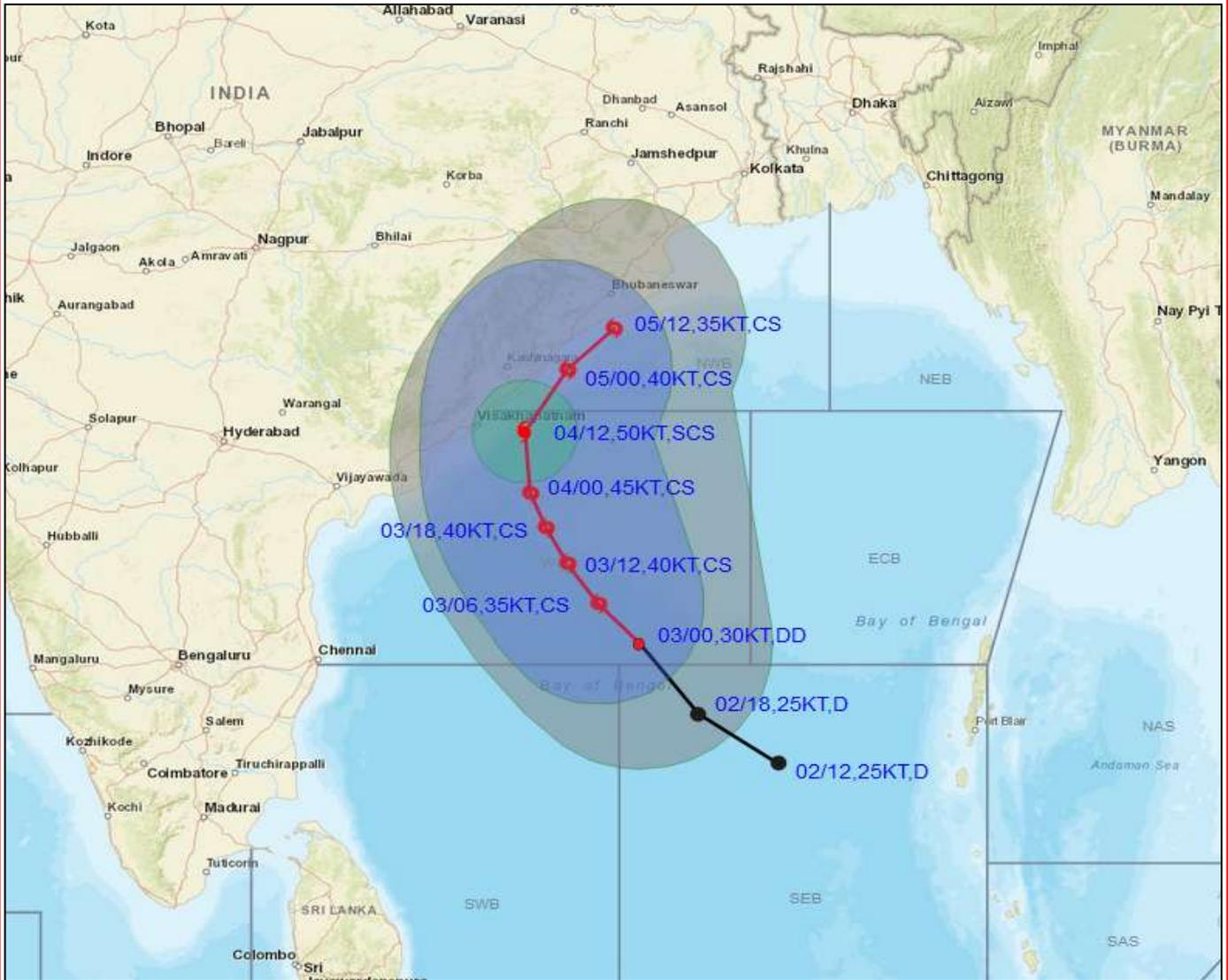


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (\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 OVER WESTCENTRAL AND ADJOINING SOUTH BAY OF BENGAL BASED ON 0000 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 (\geq 120 KT)

LESS THAN 34 KT

34.47 KT

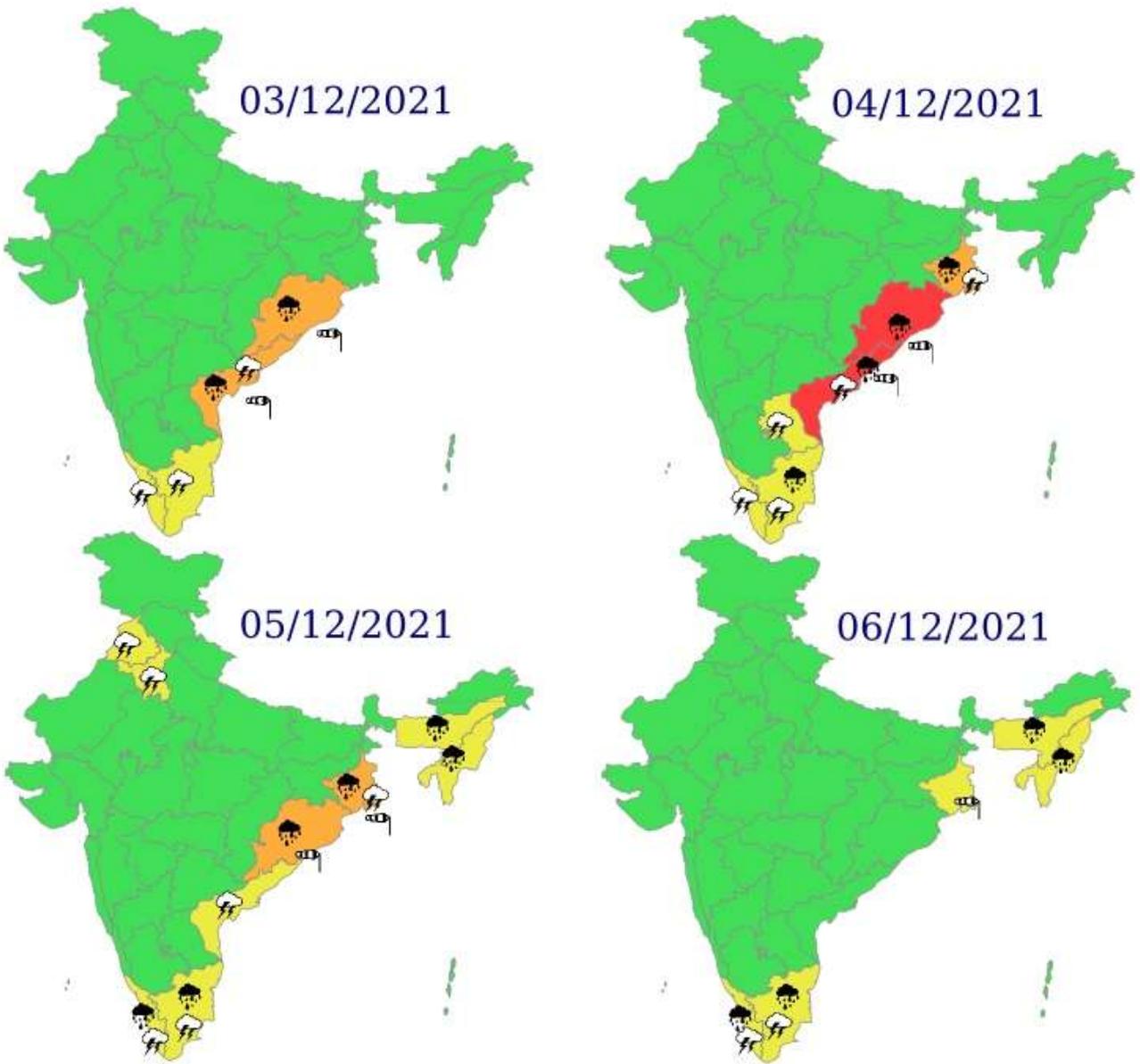
\geq 48 KT

OBSERVED TRACK

FORECAST TRACK

CONE OF UNCERTAINTY

Sub-division wise heavy rainfall warning for next 4 days



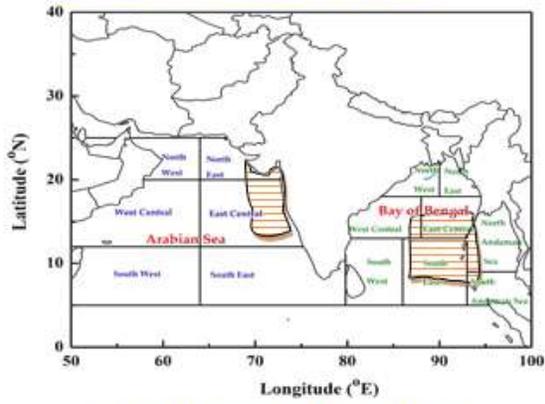
■ No warning ■ Watch
■ Alert ■ Warning

☁️ Heavy Rain
🌪️ Strong Winds

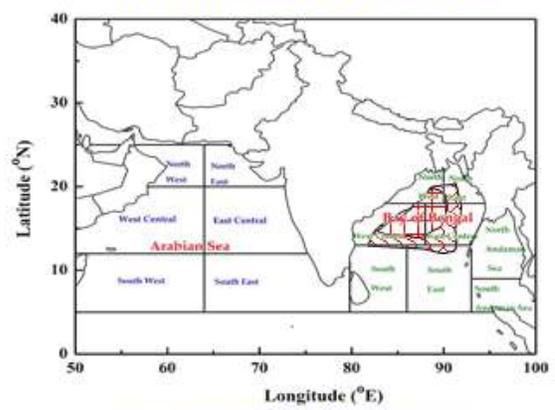
Fishermen Warning

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

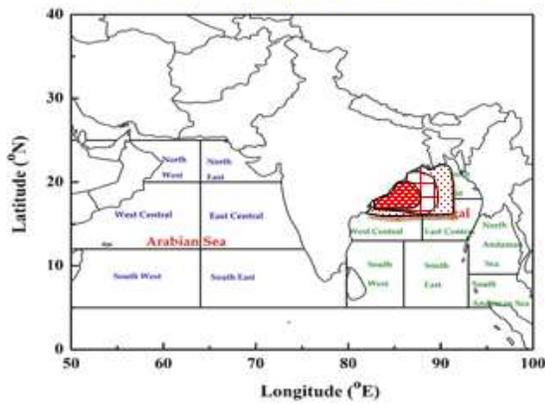
DAY-1: 02-12.2021/0600 UTC TO 03.12.2021/0600 UTC



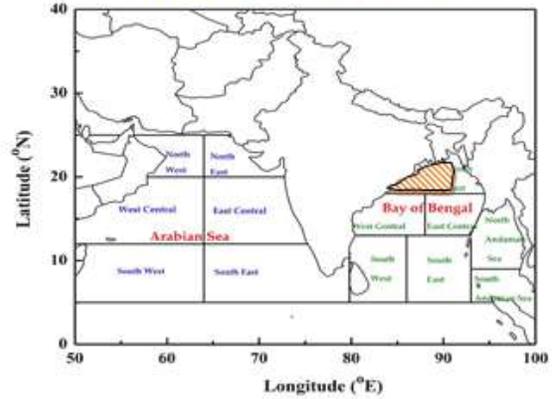
DAY-2: 03.12.2021/0600 UTC TO 04.12.2021 /0600 UTC



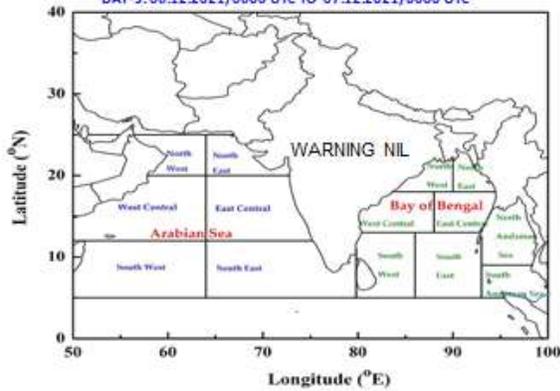
DAY-3: 04.12.2021/0600 UTC TO 05.12.2021/0600 UTC



DAY-4 05.12.2021/0600 UTC TO 06.12.2021/0600 UTC



DAY-5: 06.12.2021/0600 UTC TO 07.12.2021/0600 UTC



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