



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

**BULLETIN NUMBER: 04 (BOB/07/2021)**

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**Sub: Deep Depression over westcentral Bay of Bengal: Cyclone Alert for north Andhra Pradesh and Odisha coasts.**

The **Deep Depression** over westcentral and adjoining south Bay of Bengal moved north-northwestwards with a speed of 30 kmph during past 06 hours, and lay centered at 0830 hrs IST of today, the 3<sup>rd</sup> December 2021, over westcentral of Bengal near Lat. 14.0°N and Long. 86.0°E, about 480 km south-southeast of Vishakhapatnam (Andhra Pradesh), 600 km south-southeast of Gopalpur (Odisha) and 700 km south-southwest of Paradip (Odisha).

It is likely to move northwestwards and intensify into a **Cyclonic Storm** during next 06 hours. It is likely to reach west-central Bay of Bengal off north Andhra Pradesh – south Odisha coasts by tomorrow, the 4<sup>th</sup> December morning. Thereafter it is likely to recurve north-northeastwards and move along Odisha coast 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
03.12.21/0830	14.0/86.0	55-65 gusting to 75	Deep Depression
03.12.21/1130	14.6/85.5	60-70 gusting to 80	Cyclonic Storm
03.12.21/1730	15.2/85.0	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	16.5/84.3	80-90 gusting to 100	Cyclonic Storm
04.12.21/1730	17.8/84.3	90-100 gusting to 110	Severe Cyclonic Storm
05.12.21/0530	19.0/85.1	80-90 gusting to 100	Cyclonic Storm
05.12.21/1730	19.8/86.1	60-70 gusting to 80	Cyclonic Storm

### **Warnings:**

#### **(i) Rainfall (warning graphics enclosed)**

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

**4<sup>th</sup> 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 north coastal Andhra Pradesh and heavy to very heavy rainfall at isolated places over north coastal Odisha & adjoining interior districts and also over coastal districts of Gangetic west Bengal.

**5<sup>th</sup> 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.

**6<sup>th</sup> Dec.:** Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya, Mizoram and Tripura and heavy rainfall at isolated places over west Bengal.

#### **(ii) Wind warning**

- Squally wind speed reaching 55-65 kmph gusting to 75 kmph over westcentral and adjoining southeast & eastcentral Bay of Bengal during next 06 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 4<sup>th</sup> 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 today, the 3<sup>rd</sup> December and increase gradually becoming 80-90 kmph gusting to 100 kmph from 4<sup>th</sup> 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 4<sup>th</sup> December evening and become Gale wind speed reaching 60-70 kmph gusting to 80 kmph from the morning of 5<sup>th</sup> 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 during next 6 hours.
- Sea condition would be High over central Bay of Bengal from the afternoon of today, the 3<sup>rd</sup> December for subsequent 12 hours and High to very High over west-central & northwest Bay of Bengal from the early morning of 4<sup>th</sup> 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 3<sup>rd</sup> December and become High to very High from 4<sup>th</sup> Afternoon, for the subsequent 12 hours.
- It will be rough to very rough along & off West Bengal coast from 4<sup>th</sup> 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 3<sup>rd</sup> December, over west-central & northwest Bay of Bengal and along & off north Andhra Pradesh - Odisha- West Bengal coasts during 3<sup>rd</sup> - 5<sup>th</sup> 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 3<sup>rd</sup> December and to be suspended on 4<sup>th</sup> & 5<sup>th</sup> 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 1430 hrs IST of 3<sup>rd</sup> 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

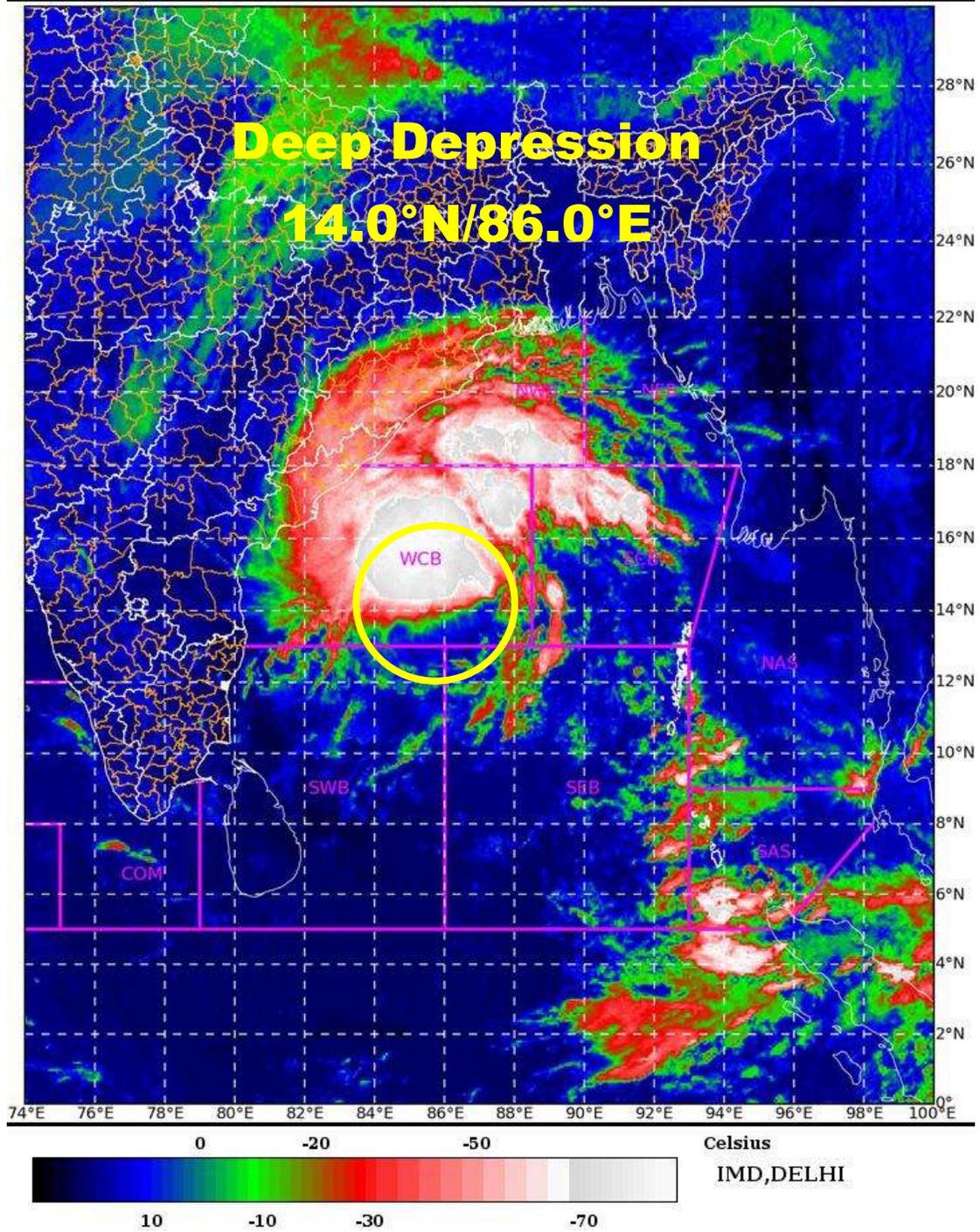
03-12-2021/(0400 to 0427) GMT

IMG\_TIR1\_TEMP 10.8 um

03-12-2021/(0930 to 0957) IST

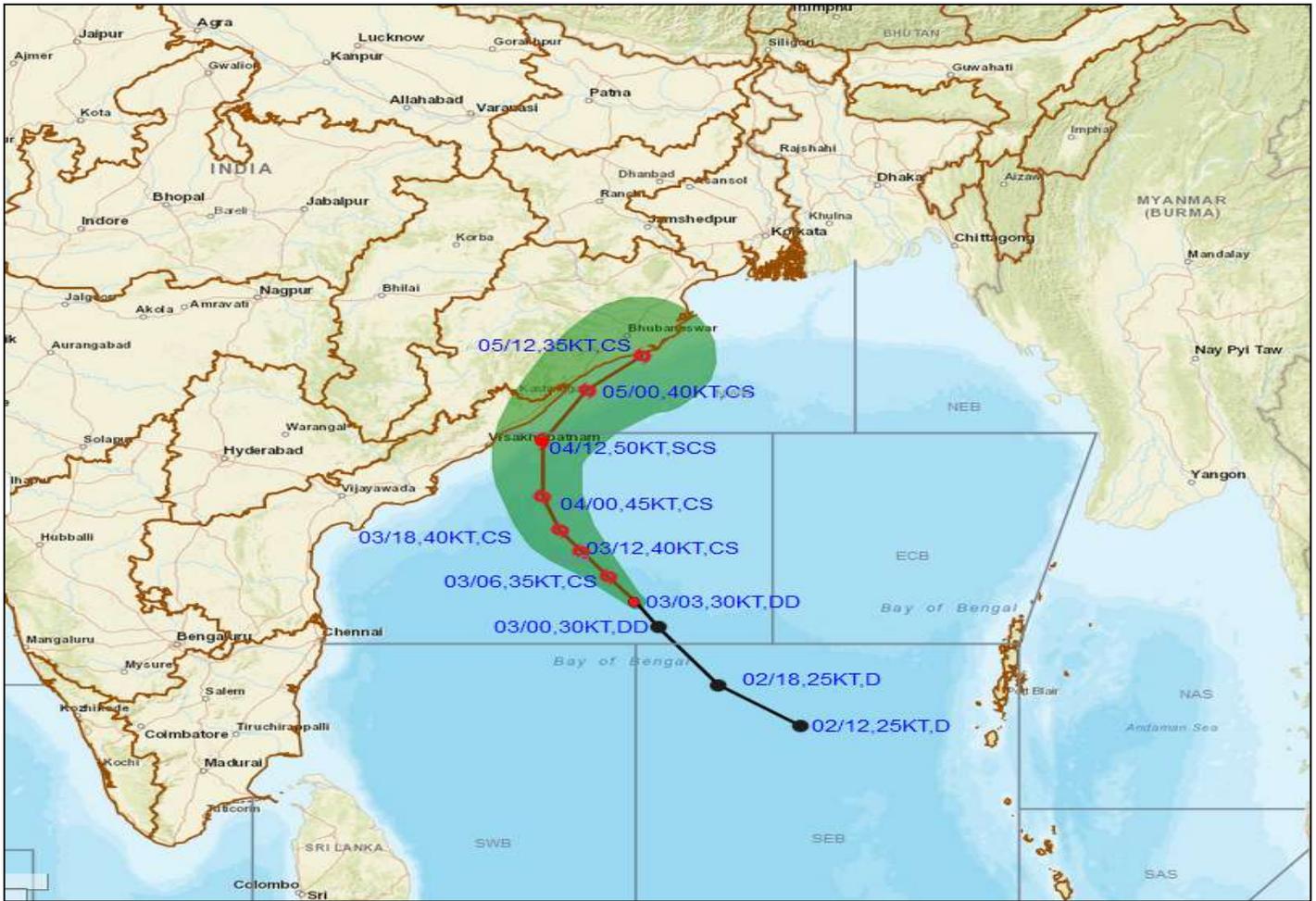


L1C Mercator





**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER WESTCENTRAL BENGAL BASED ON 0300 UTC OF 3<sup>rd</sup> 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)  
 VS: 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 BAY OF BENGAL BASED ON 0300 UTC OF 3<sup>rd</sup> 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)**

**ECS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)**

**SuCS: SUPER CYCLONIC STORM ( $\geq$  120 KT)**

 **LESS THAN 34 KT**

 **34-47 KT**

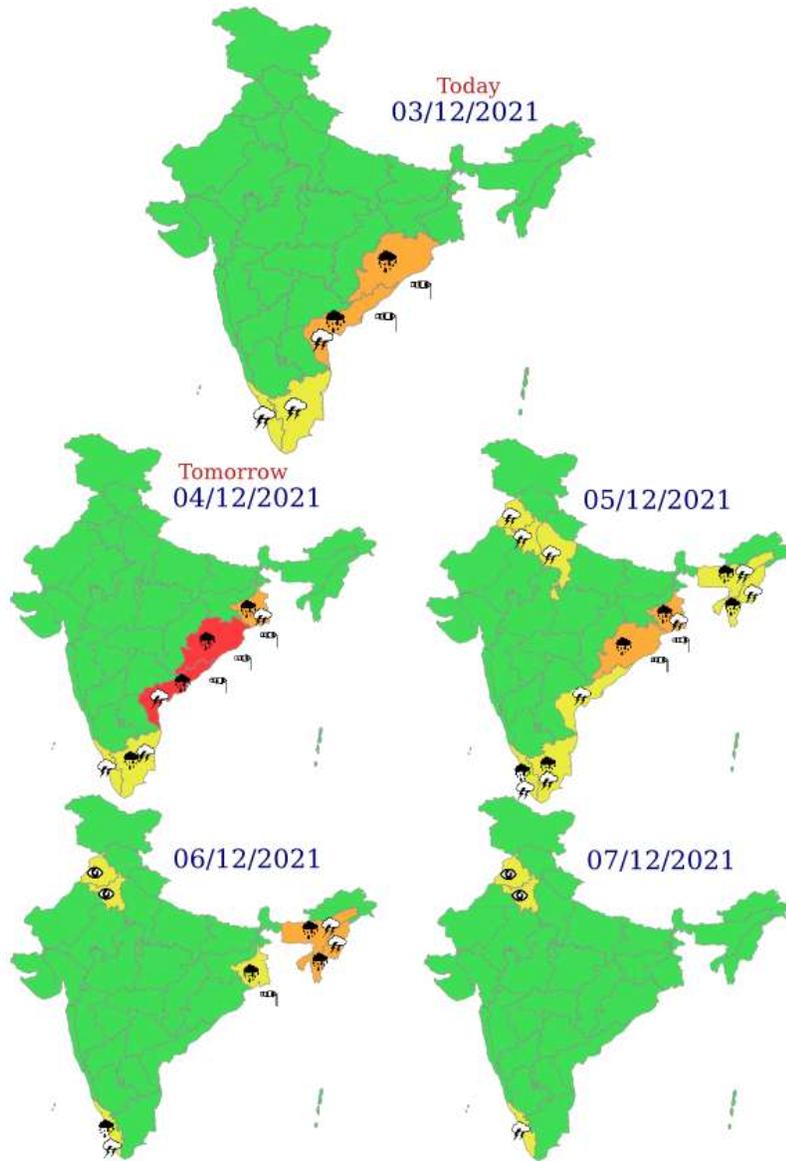
  **$\geq$  48 KT**

 **OBSERVED TRACK**

 **FORECAST TRACK**

 **CONE OF UNCERTAINTY**

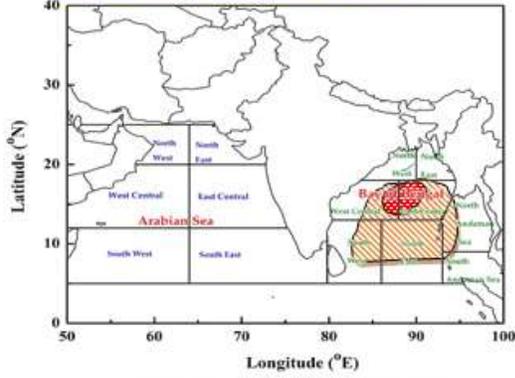
# Sub-division wise heavy rainfall warning for next 5 days



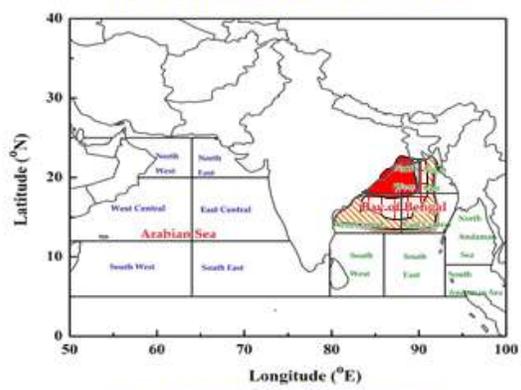
# Fishermen Warning

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

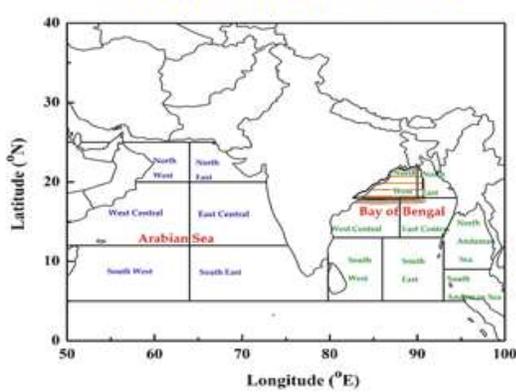
DAY-1: 03-12.2021/0600 UTC TO 04.12.2021/0600 UTC



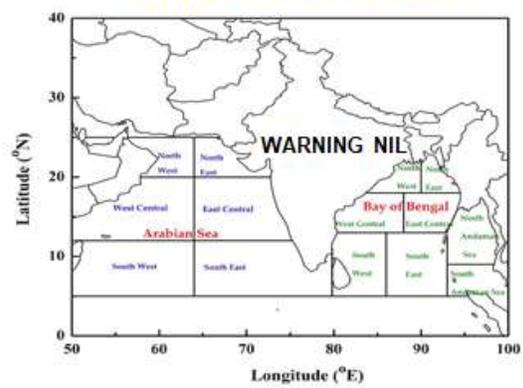
DAY-2: 04.12.2021/0600 UTC TO 05.12.2021/0600 UTC



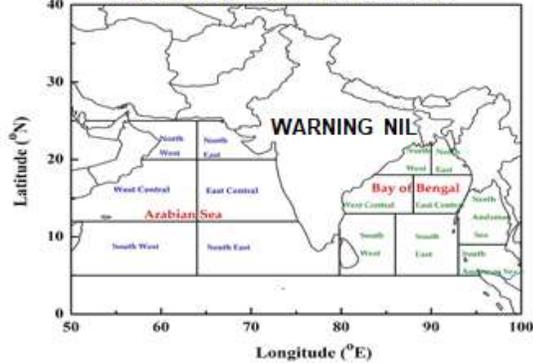
DAY-3: 05.12.2021/0600 UTC TO 06.12.2021/0600 UTC



DAY-4: 06.12.2021/0600 UTC TO 07.12.2021/0600 UTC



DAY-5: 07.12.2021/0600 UTC TO 08.12.2021/0600 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