



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

**NATIONAL BULLETIN NO. 1 (BOB/05/2023)**

**TIME OF ISSUE:1220 HOURS IST**

**DATED:15.11.2023**

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**Sub: Depression over Westcentral Bay of Bengal**

Yesterday's low pressure area over southeast Bay of Bengal and adjoining Andaman & Nicobar Islands moved west-northwestwards, concentrated into a depression and lay centred at 0830 hours IST of today, the 15<sup>th</sup> November over Westcentral Bay of Bengal near latitude 14.5°N and longitude 86.8°E, about 510 km southeast of Visakhapatnam (Andhra Pradesh), 650 km south-southeast of Paradip (Odisha) and 790 km south of Digha (West Bengal).

It is likely to move initially northwestwards, then north-northwestwards and intensify into a deep depression over Westcentral Bay of Bengal off Andhra Pradesh coast in the morning of 16<sup>th</sup> November. Thereafter, it would recurve north-northeastwards and reach over Northwest Bay of Bengal off Odisha coast on 17<sup>th</sup> morning & off North Odisha-West Bengal coasts on 18<sup>th</sup> November morning

*Forecast track and intensity are given below:*

<b>Date/Time (IST)</b>	<b>Position (Lat. °N/ long. °E)</b>	<b>Maximum sustained surface wind speed (Kmph)</b>	<b>Category of cyclonic disturbance</b>
15.11.23/0830	14.5/86.8	40-50 kmph gusting to 60 kmph	Depression
15.11.23/1730	15.4/85.8	45-55 kmph gusting to 65 kmph	Depression
16.11.23/0530	16.6/85.6	50-60 kmph gusting to 70 kmph	Deep Depression
16.11.23/1730	17.7/86.2	50-60 kmph gusting to 70 kmph	Deep Depression
17.11.23/0530	19.0/87.0	50-60 kmph gusting to 70 kmph	Deep Depression
17.11.23/1730	20.1/87.7	50-60 kmph gusting to 70 kmph	Deep Depression
18.11.23/0530	21.2/88.4	50-60 kmph gusting to 70 kmph	Deep Depression

## Warnings:

### (i) Rainfall Warning (graphics enclosed):

- Light to moderate rainfall at many places with isolated heavy to very heavy rainfall is very likely over coastal districts of Tamil Nadu & Puducherry on 15<sup>th</sup> November.
- Light to moderate rainfall at many places with isolated heavy rainfall is likely over coastal districts of Andhra Pradesh on 15<sup>th</sup> November
- Light to moderate rainfall at a few places is likely over coastal districts of Odisha & West Bengal on 15<sup>th</sup> November. It would increase becoming light to moderate rainfall at many places with isolated heavy rainfall is likely on 16<sup>th</sup> and isolated very heavy rainfall on 17<sup>th</sup> November over coastal districts of Odisha & West Bengal.
- Light to moderate rainfall at many places with isolated heavy rainfall is likely over Nagaland, Manipur, Mizoram & Tripura during 16<sup>th</sup> to 18<sup>th</sup> November and over south Assam and east Meghalaya on 17<sup>th</sup> November

### (ii) Wind warning (graphics enclosed):

- **Squally weather** with wind speed reaching **35-45 kmph gusting to 55 kmph** is likely to prevail over southwest Bay of Bengal along & off Tamil Nadu & Puducherry and Sri Lanka coasts on 15<sup>th</sup> & 16<sup>th</sup> November.
- **Squally wind** speed reaching **45-55 kmph gusting to 65 kmph** is likely over westcentral and adjoining south Bay of Bengal on 15<sup>th</sup> November and likely to become **50-60 kmph gusting to 70 kmph** over westcentral Bay of Bengal on 16<sup>th</sup> November and over northwest and adjoining westcentral Bay of Bengal on 17<sup>th</sup> November.
- **Along & off Andhra Pradesh Coast: Squally wind speed reaching 40-50 kmph gusting 60 kmph** is likely on 15<sup>th</sup> & 16<sup>th</sup> November along & off south Andhra Pradesh coast and 15<sup>th</sup> to 17<sup>th</sup> along & off north Andhra Pradesh coast.
- **Along & off Odisha Coast: Squally wind speed reaching 40-50 kmph gusting 60 kmph** is likely during 15<sup>th</sup> evening. It is likely to increase gradually becoming **45-55 kmph gusting to 65 kmph** from 16<sup>th</sup> morning, **50-60 kmph gusting 70 kmph** from 16<sup>th</sup> evening till 18<sup>th</sup> morning and decrease thereafter.
- **Along & off West Bengal Coast: Squally wind speed reaching 40-50 kmph gusting 60 kmph** is likely during 16<sup>th</sup> morning. It is likely to increase gradually becoming **50-60 kmph gusting 70 kmph** from 16<sup>th</sup> evening till 18<sup>th</sup> morning and decrease thereafter.
- **Along & off Bangladesh Coast: Squally wind speed reaching 45-55 kmph gusting 65 kmph** is likely from 16<sup>th</sup> evening till 18<sup>th</sup> morning and decrease thereafter.

### (iii) Sea Condition:

- **Rough to very rough sea condition** is likely over
  - southwest Bay of Bengal along & off Tamil Nadu & Puducherry and Sri Lanka coasts on 15<sup>th</sup> & 16<sup>th</sup> November.
  - westcentral and adjoining south Bay of Bengal on 15<sup>th</sup> & 16<sup>th</sup> November.
  - North and adjoining westcentral Bay of Bengal on 16<sup>th</sup> to 18<sup>th</sup> November.
  - **Along & off south Andhra Pradesh coast** on 15<sup>th</sup> & 16<sup>th</sup> November & north Andhra Pradesh coast on 15<sup>th</sup> to 17<sup>th</sup> November.
  - **Along & off Odisha coast** during 15<sup>th</sup> to 18<sup>th</sup> November.
  - **Along & off West Bengal and Bangladesh coasts** during 16<sup>th</sup> to 18<sup>th</sup> November

### (iv) Fishermen Warning:

Fishermen are advised not to venture into

- Southeast & adjoining eastcentral Bay of Bengal and Andaman Sea on 15<sup>th</sup> November.
- Southwest Bay of Bengal during on 15<sup>th</sup> & 16<sup>th</sup> November
- Westcentral Bay of Bengal during 15<sup>th</sup> to 17<sup>th</sup> November

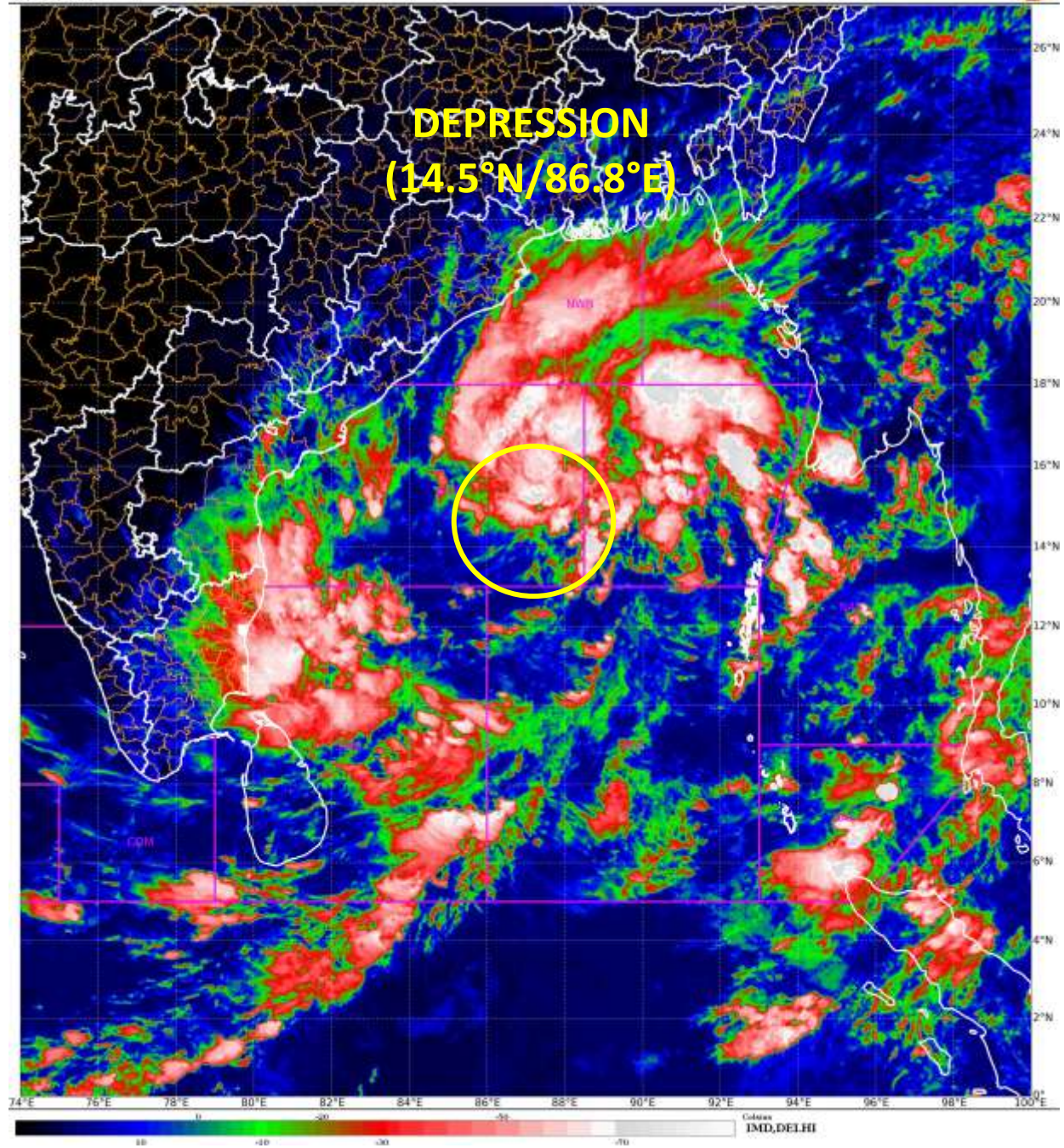
- Northwest Bay of Bengal during 16<sup>th</sup> to 18<sup>th</sup> November
- Along & off Andhra Pradesh Coast during 15<sup>th</sup> & 17<sup>th</sup> November
- Along & off Odisha coast during 15<sup>th</sup> to 18<sup>th</sup> November
- Along & off West Bengal coast during 16<sup>th</sup> to 18<sup>th</sup> November
- Along & off Bangladesh coast during 16<sup>th</sup> to 18<sup>th</sup> November

The Fishermen out at sea are advised to return to coast.

**The system is under continuous surveillance and the next message will be issued at 1430 hours IST of today, the 15<sup>th</sup> November, 2023.**

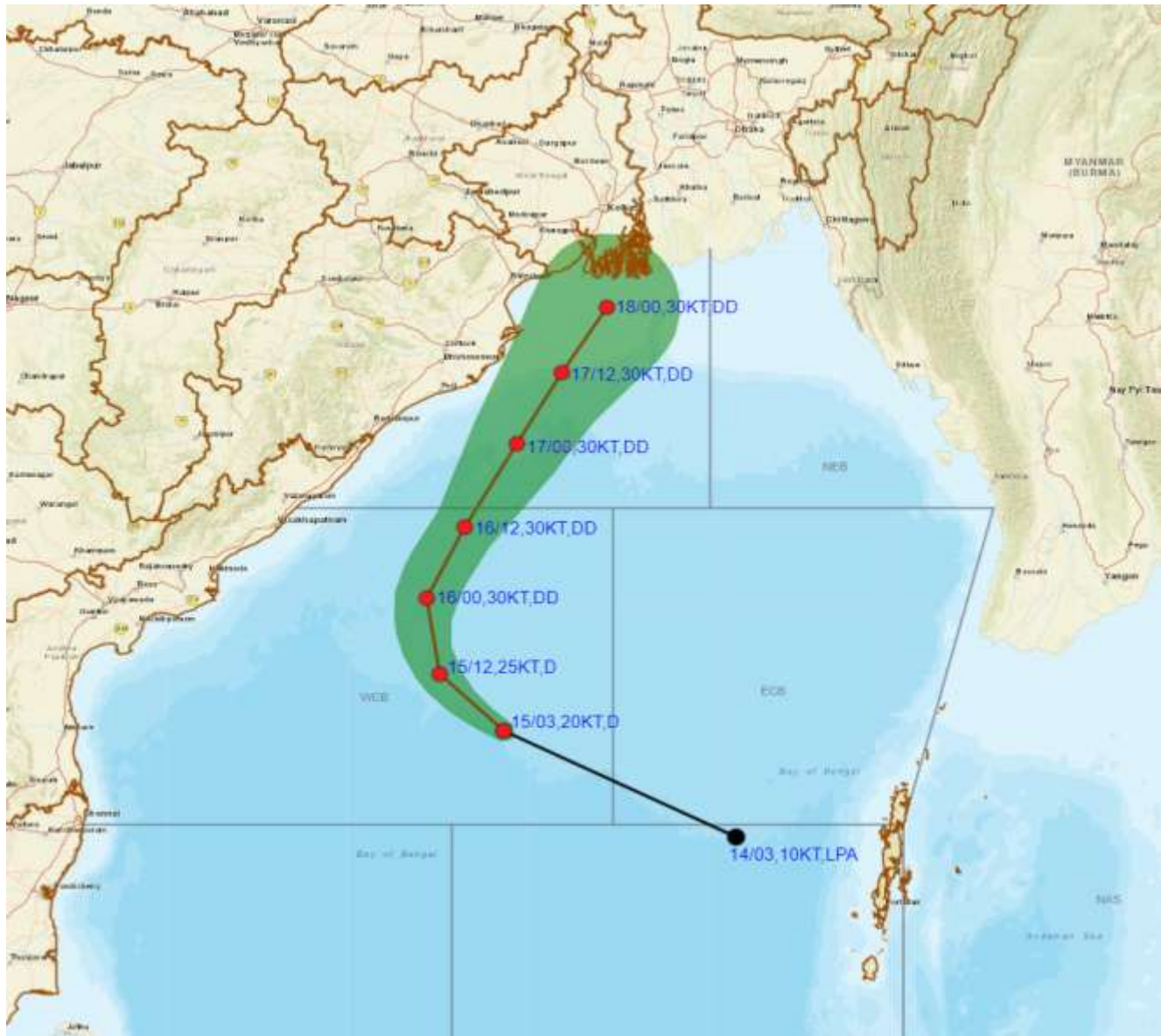
**(Ananda Kumar Das)  
Scientist F, Cyclone Warning, New Delhi**

*Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa*





**OBSERVED AND FORECAST TRACK AND INTENSITY ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC (0830 IST) OF 15<sup>TH</sup> NOVEMBER 2023.**



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

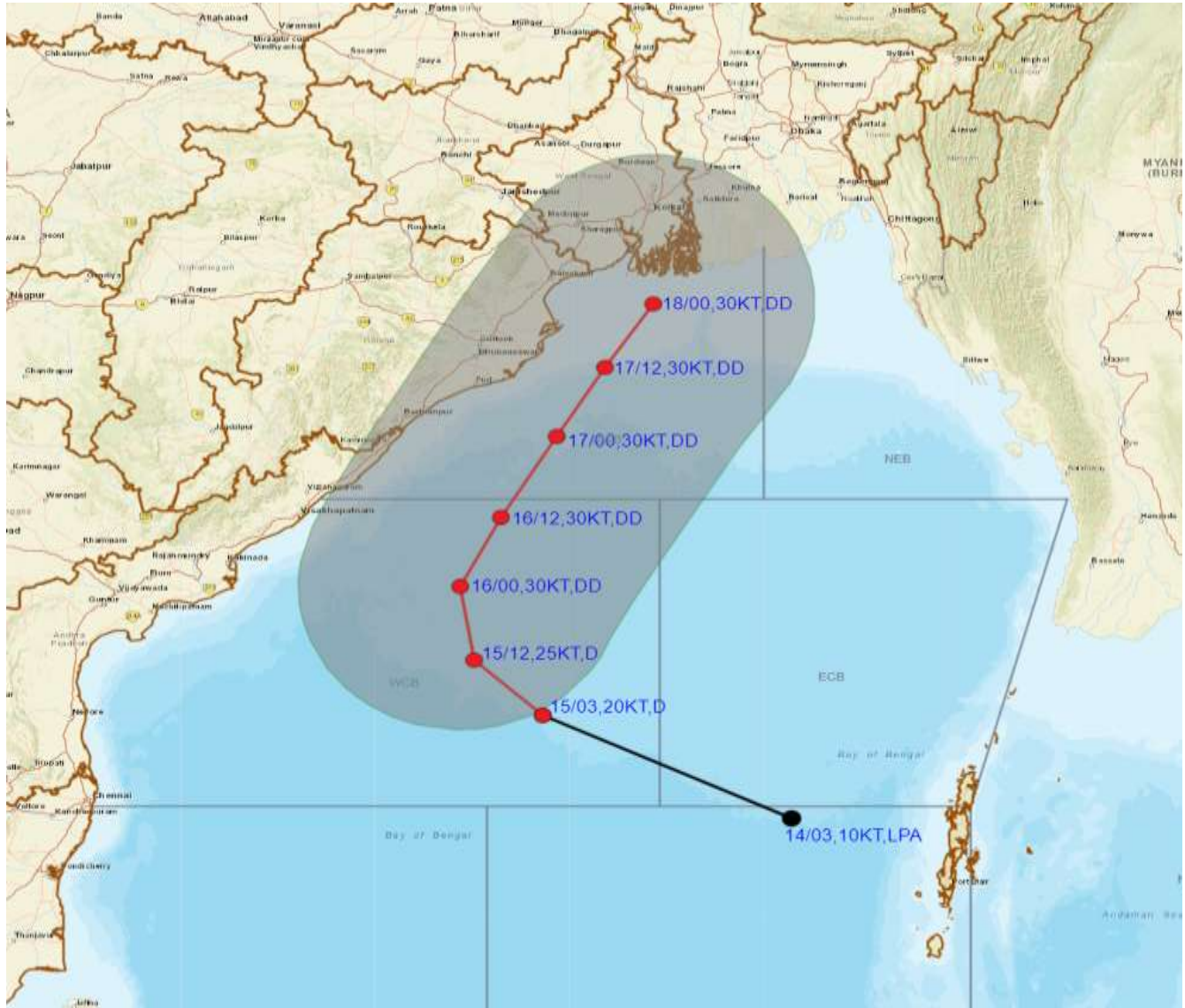
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



**OBSERVED AND FORECAST TRACK AND INTENSITY ALONG WITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC (0830 IST) OF 15<sup>TH</sup> NOVEMBER 2023.**



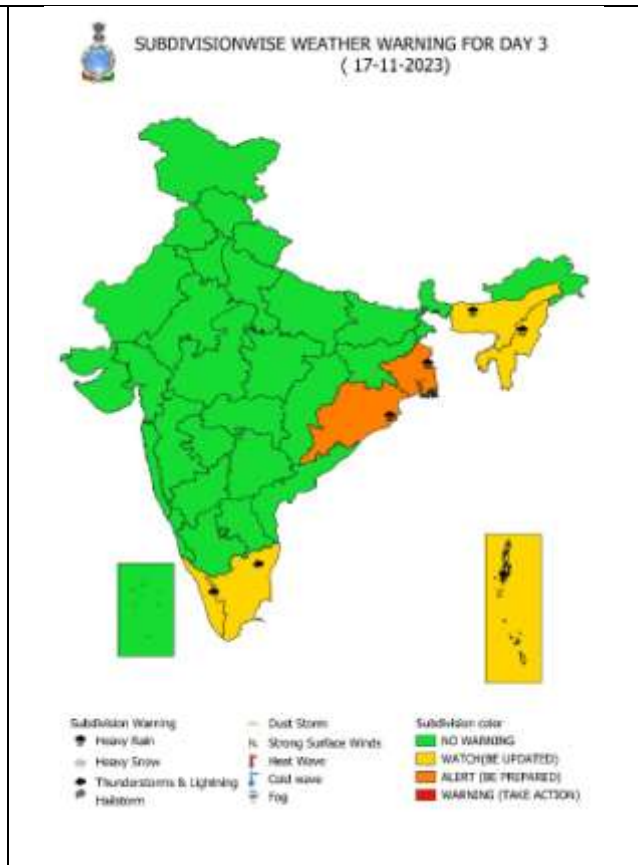
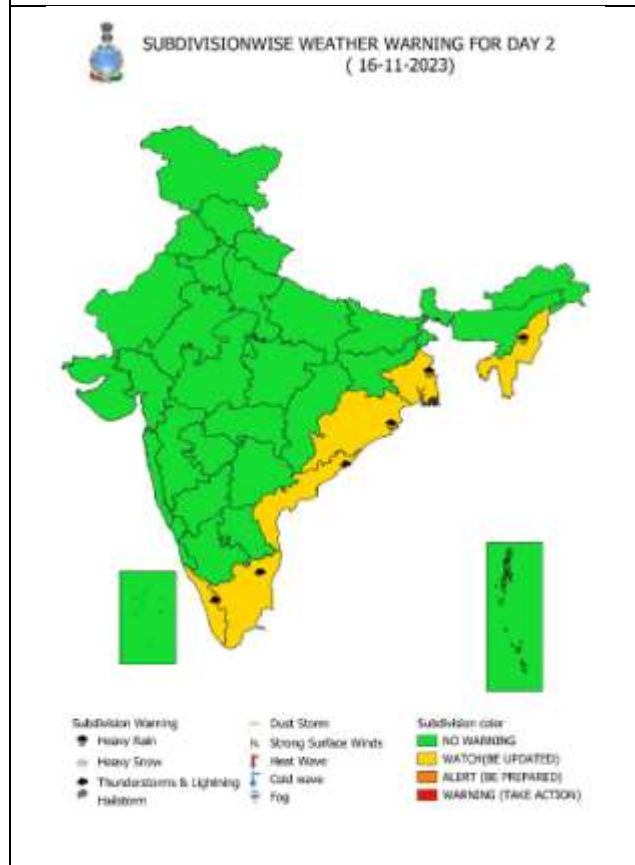
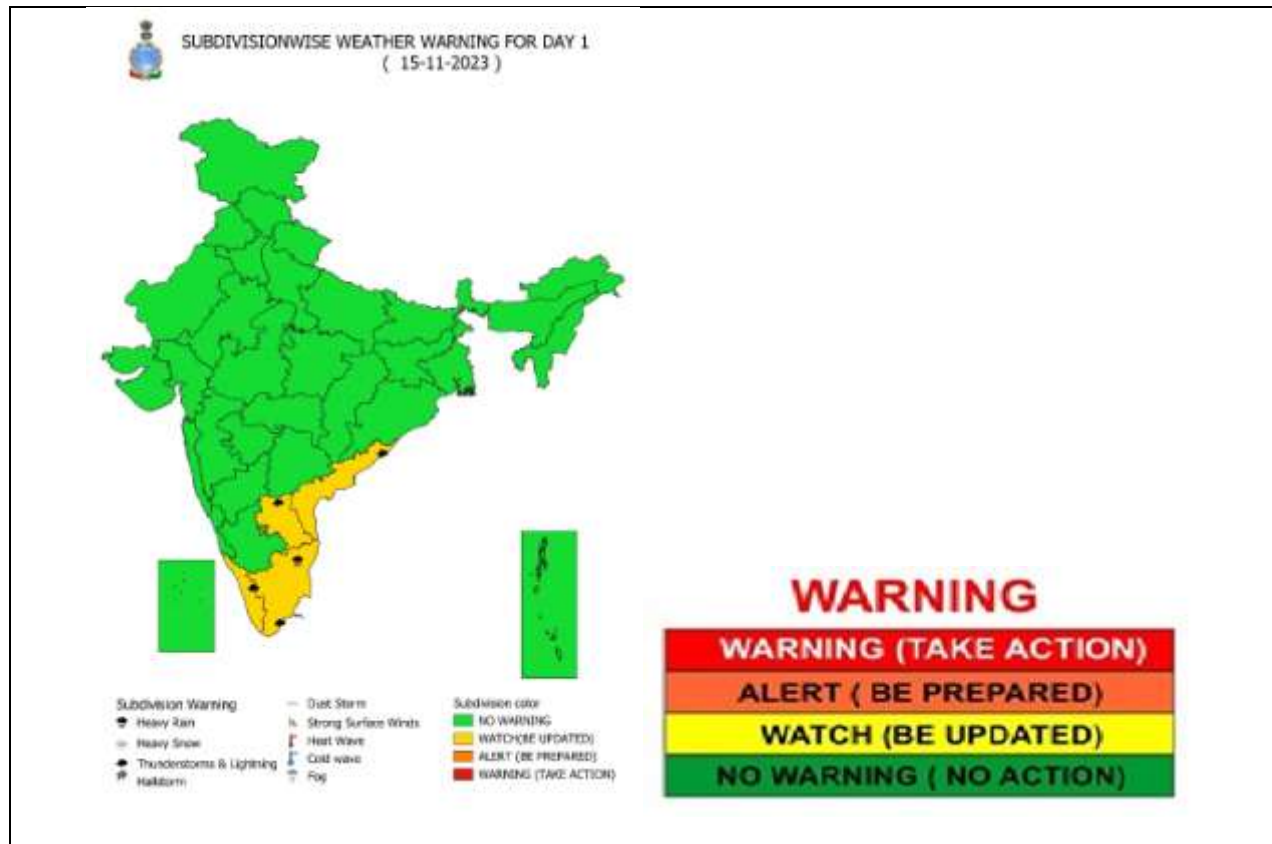
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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

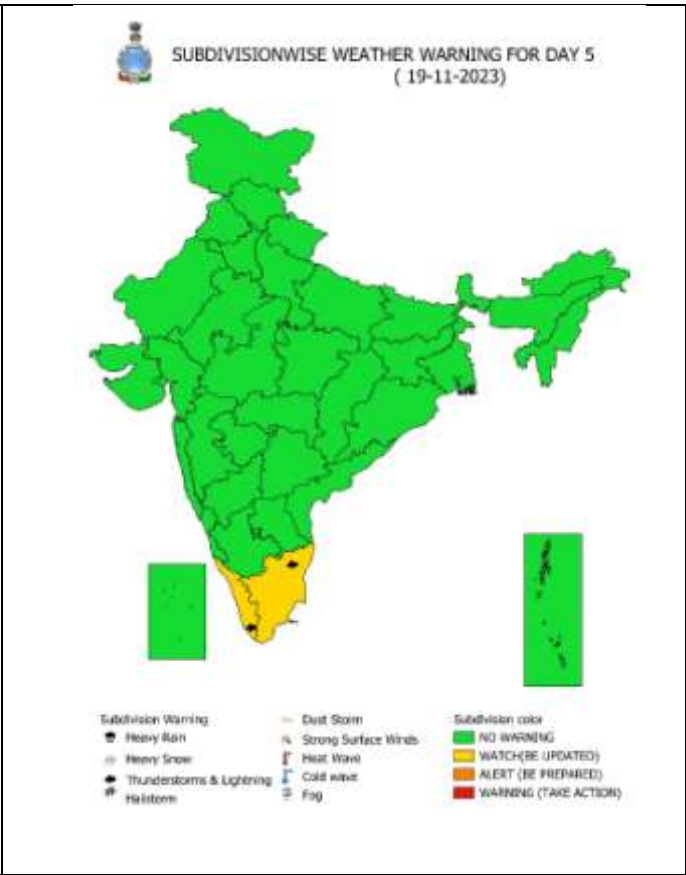
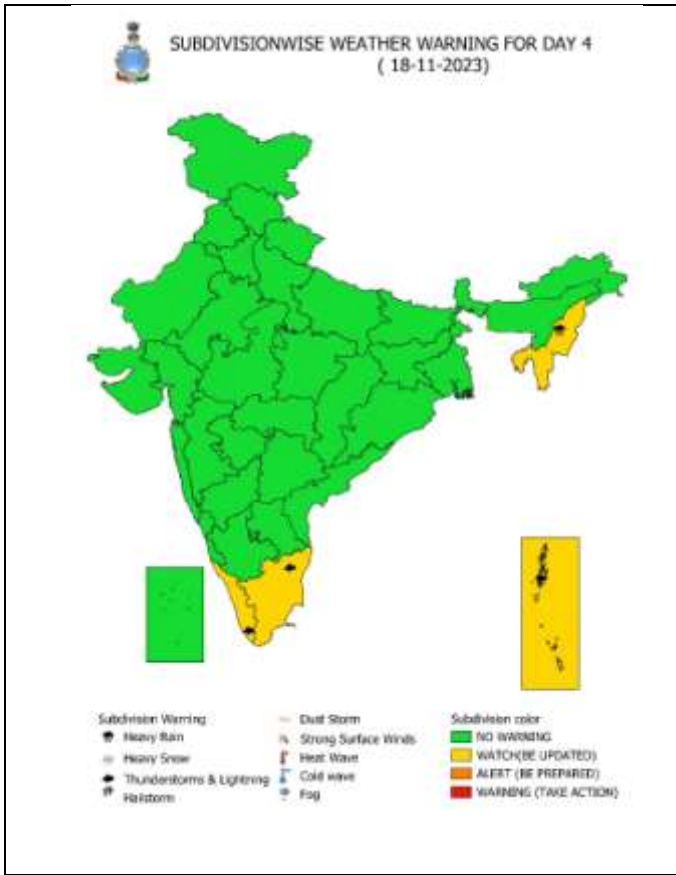
● LESS THAN 34 KT  
 ○ 34-47 KT  
 ⊙  $\geq 48$  KT  
 — OBSERVED TRACK  
 — FORECAST TRACK  
 ■ CONE OF UNCERTAINTY  
 ■ AREA OF MAXIMUM SUSTAINED WIND SPEED:  
 ■ 28-33 KT (52-61 KMPH)  
 ■ 34-49 KT (62-91 KMPH)  
 ■ 50-63 KT (92-117 KMPH)  
 ■  $\geq 64$  KT ( $\geq 118$  KMPH)

**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
$\geq 64$ ( $\geq 118$ )	Phenomenal	Total suspension of fishing operations

# WEATHER WARNING GRAPHICS





**Heavy Rain**

**Strong Winds**

**Frost**

**Heavy Snow**

**Visibility**

**Cold Wave**

**Thunderstorm**

**Cyclone**

**Heat Wave**

**Dust Storm**

**Squall/ Hail**

**Sea State**



# Fishermen warning graphics

Day 1: 15.11.2023/11:30AM to 16.11.2023/05:30AM



Day 2: 16.11.2023/05:30AM to 17.11.2023/05:30AM



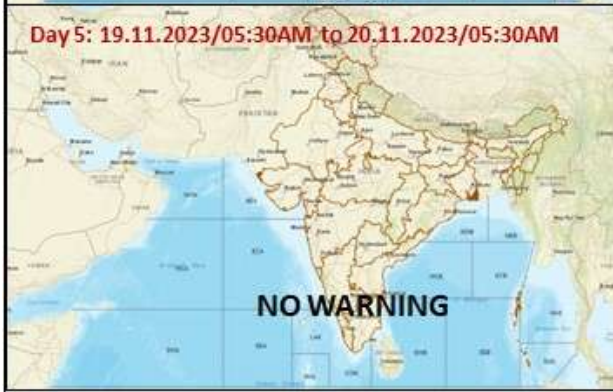
Day 3: 17.11.2023/05:30AM to 18.11.2023/05:30AM






Day 4: 18.11.2023/05:30AM to 19.11.2023/05:30AM



Day 5: 19.11.2023/05:30AM to 20.11.2023/05:30AM



	Squally WX with wind speed 40-45 kmph gusting to 55 kmph
	Squally WX with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind with speed 50-60 kmph gusting to 70 kmph

**Fishermen are advised not to venture into the marked areas.**