



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

NATIONAL BULLETIN NO. 07 (BOB/05/2023)

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DATED: 16.11.2023

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Sub: Deep Depression over Westcentral Bay of Bengal

The Deep Depression over Westcentral Bay of Bengal moved north-northeastwards with a speed of 20 kmph during past 6 hours and lay centred at 1130 hours IST of today, the 16th November over Westcentral Bay of Bengal near latitude 17.9°N and longitude 87.3°E, about 420 km east of Visakhapatnam (Andhra Pradesh), 270 km south-southeast of Paradip (Odisha), 410 km south of Digha (West Bengal) and 540 km south-southwest of Khepupara (Bangladesh).

It is likely to continue to move north-northeastwards, intensify further into a cyclonic storm during next 24 hours and cross Bangladesh coast between Mongla and Khepupara with wind speed of 60-70 kmph gusting to 80 kmph by the early hours of 18th November, 2023.

Forecast track and intensity are given below:

Date/Time (IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
16.11.23/1130	17.9/87.3	50-60 kmph gusting to 70 kmph	Deep Depression
16.11.23/1730	18.6/87.7	55-65 kmph gusting to 75 kmph	Deep Depression
16.11.23/2330	19.2/88.0	60-70 kmph gusting to 80 kmph	Cyclonic Storm
17.11.23/0530	19.8/88.3	70-80 kmph gusting to 90 kmph	Cyclonic Storm
17.11.23/1130	20.5/88.7	70-80 kmph gusting to 90 kmph	Cyclonic Storm
17.11.23/2330	21.6/89.5	60-70 kmph gusting to 80 kmph	Cyclonic Storm
18.11.23/1130	23.3/90.3	55-65 kmph gusting to 75 kmph	Deep Depression
18.11.23/2330	24.5/90.6	40-50 kmph gusting to 60 kmph	Depression

Warnings:

(i) Rainfall Warning (graphics enclosed):

- Light to moderate rainfall at many places with isolated heavy rainfall is likely over coastal districts of West Bengal on 16th & 17th and over coastal districts of north Odisha on 16th November.
- Light to moderate rainfall at most places with isolated heavy rainfall is likely over Nagaland, Manipur, Mizoram & Tripura during 16th to 18th November with very heavy rainfall at isolated places over Mizoram & Tripura on 17th November.
- Light to moderate rainfall at many places with isolated heavy rainfall is likely over south Assam and east Meghalaya on 17th & 18th 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 16th November.
- **Squally wind** speed reaching **50-60 kmph gusting to 70 kmph** is prevailing over Westcentral & adjoining Northwest Bay of Bengal and is likely to increase gradually becoming **60-70 kmph gusting to 80 kmph** over North Bay of Bengal from 16th midnight. It would increase further becoming **70-80 kmph gusting to 90 kmph** over North Bay of Bengal and decrease over westcentral Bay of Bengal becoming **40-50 kmph gusting to 60 kmph** on 17th morning. Thereafter, it would decrease becoming **55-65 kmph gusting to 75 kmph** over the North Bay of Bengal from 18th morning. **Squally wind** speed reaching **40-50 kmph gusting to 60 kmph** is likely over adjoining central Bay of Bengal from 17th evening to 18th morning and decrease thereafter.
- **Along & off Andhra Pradesh Coast: Squally wind speed reaching 30-40 kmph gusting to 50 kmph** is likely along & off south Andhra Pradesh coast on 16th November and **40-50 kmph gusting to 60 kmph** along & off north Andhra Pradesh coast during 16th to 17th morning. It would decrease thereafter.
- **Along & off Odisha Coast: Squally wind speed reaching 45-55 kmph gusting to 65 kmph** is prevailing and likely to increase gradually becoming **50-60 kmph gusting to 70 kmph** from 16th evening till 17th evening and decrease thereafter.
- **Along & off West Bengal Coast: Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is prevailing. It is likely to increase gradually becoming **55-65 kmph gusting to 75 kmph** from 17th morning till 18th morning and decrease thereafter.
- **Along & off Bangladesh Coast: Squally wind speed reaching 45-55 kmph gusting to 65 kmph** is likely from 16th evening and increase becoming **60-70 kmph gusting to 80 kmph** from 17th evening till 18th morning and decrease thereafter.

(iii) Sea Condition:

- **Rough to very rough sea condition** is likely over
 - Southwest Bay of Bengal and along & off Tamil Nadu & Puducherry and Sri Lanka coasts on 16th November.
 - Westcentral Bay of Bengal during 16th- 17th November
 - North Bay of Bengal till midnight of 16th November. **It would become very rough to high over North Bay of Bengal from 16th midnight to 18th morning.**
 - **Along & off** north Andhra Pradesh coast during 16th to 17th November.
 - **Along & off Odisha coast during 16th-17th and West Bengal & Bangladesh coasts** during 16th to 18th November

(iv) Fishermen Warning:

Fishermen are advised not to venture into

- Southwest Bay of Bengal on 16th November
- Westcentral Bay of Bengal during 16th to 17th November
- North Bay of Bengal during 16th to 18th November
- Along & off Andhra Pradesh Coast during 16th to 17th November
- Along & off Odisha coast during 16th-17th November
- Along & off West Bengal and Bangladesh coasts during 16th to 18th November

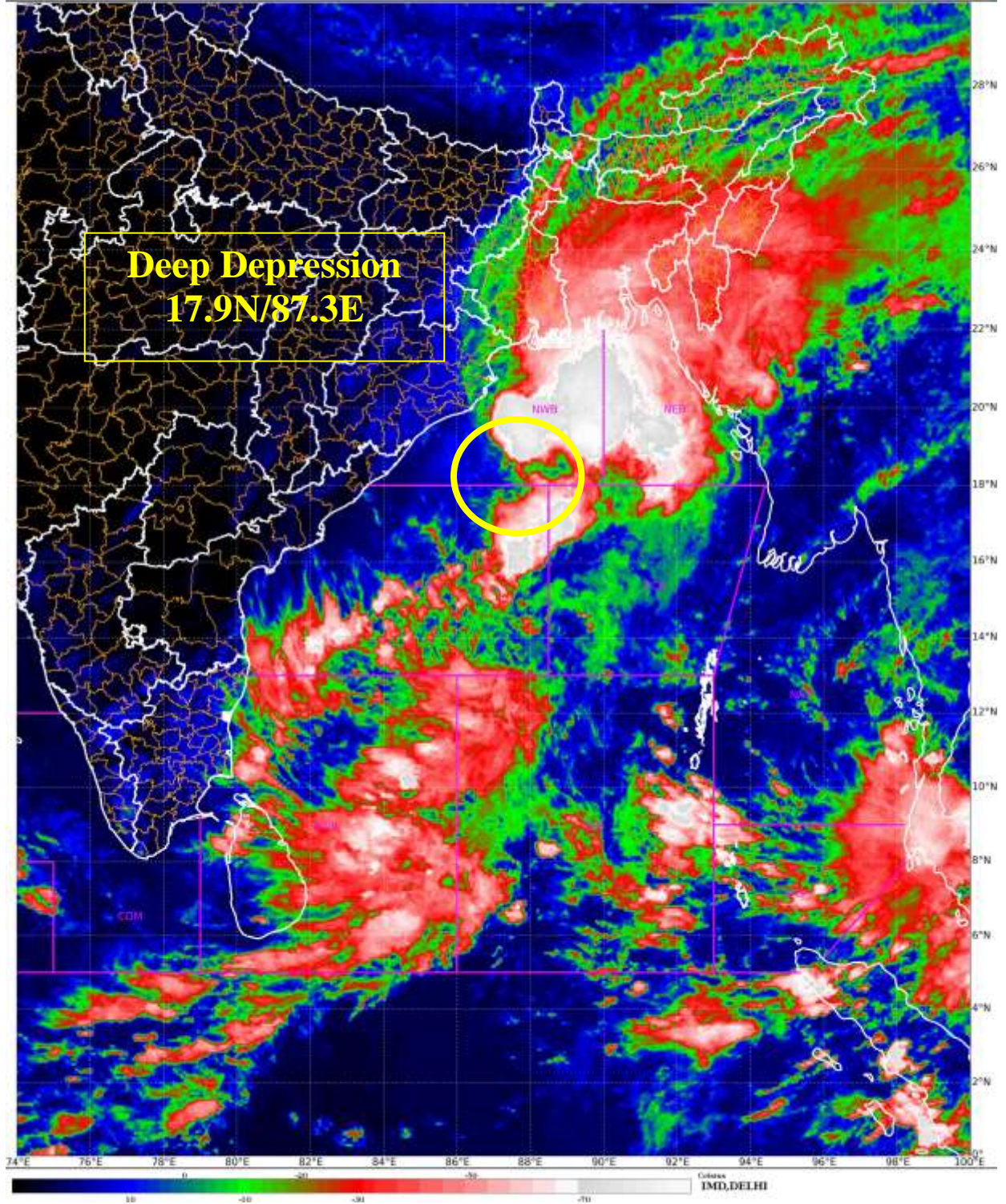
(v) Damage Expected & Action Suggested for coastal areas of Odisha & West Bengal:

- Minor damage to loose/unsecured structures.
- Minor damage to small trees like Banana. Papaya and Drumstick and ripe paddy crops.
- Partial Damage to standing crops in coastal areas of Odisha & west Bengal.
- Minor damage to Kutcha embankments.

The system is under continuous surveillance and the next message will be issued at 2030 hours IST of today, the 16th November, 2023.

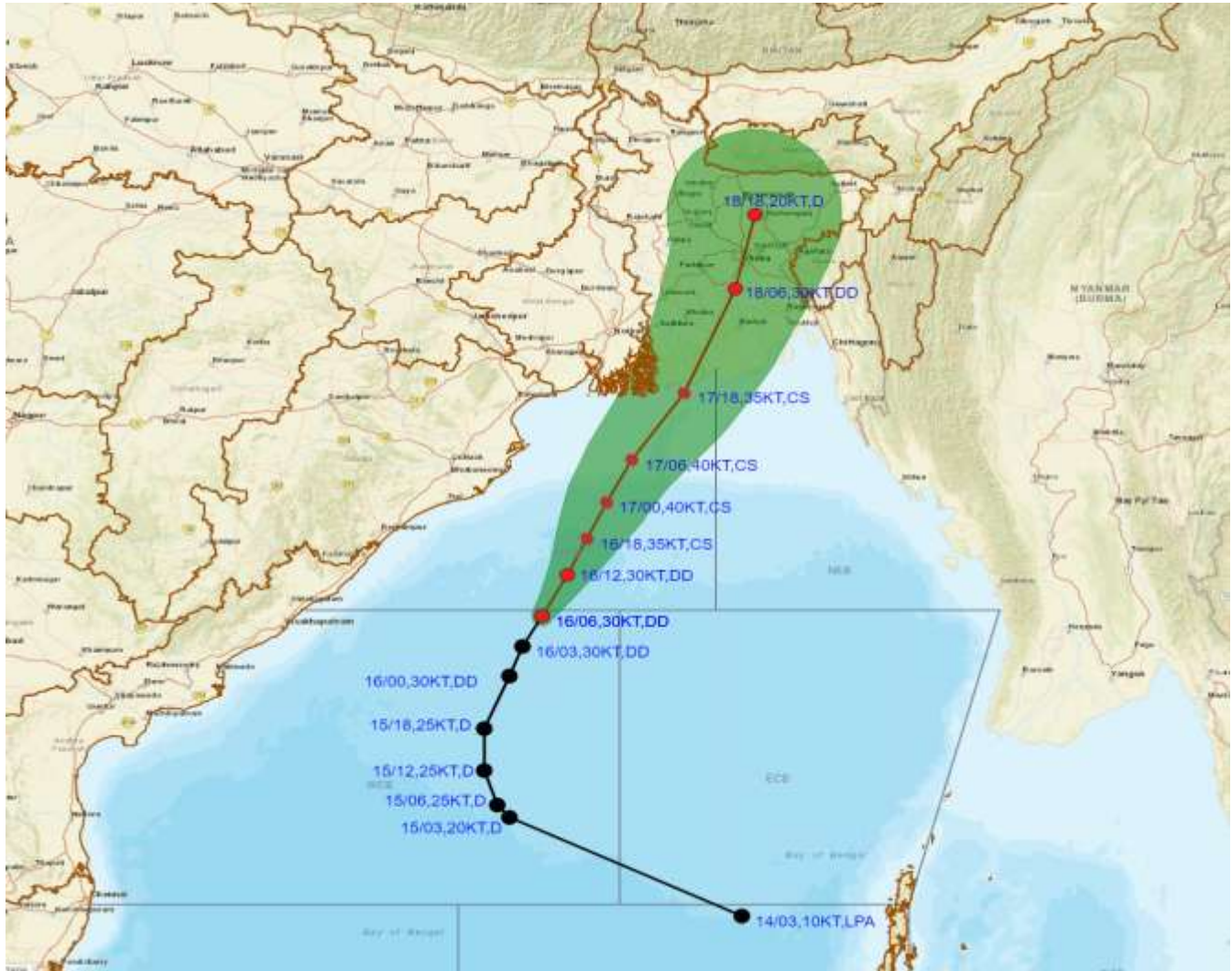
**(Ananda Kumar Das)
Scientist F, Cyclone Warning, New Delhi**

Copy to:ACWC Chennai/ ACWC Kolkata/CWC Bhubaneswar/CWC Vishakhapatnam/MC Amravati/ RMC Guwahati/MC Agartala/MC Mizoram/MC Manipur/MC Nagaland/MC Shillong





OBSERVED AND FORECAST TRACK AND INTENSITY ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEEP DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 16TH NOVEMBER 2023.



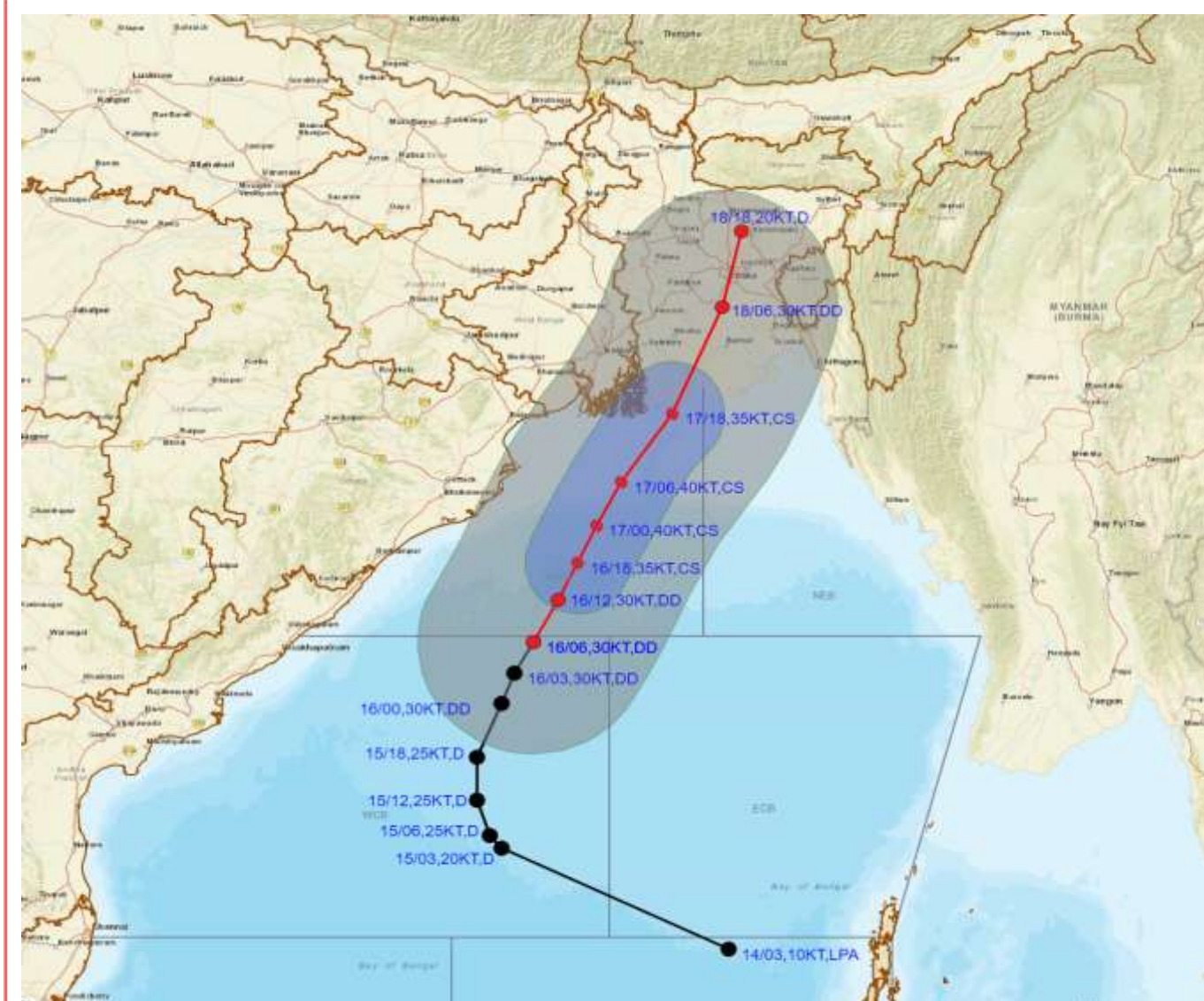
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

- LESS THAN 34 KT
- ☞ 34-47 KT
- ☞ ≥ 48 KT
- █ OBSERVED TRACK
- █ FORECAST TRACK
- ▲ CONE OF UNCERTAINTY

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
	PARADIP (CWR)	DIGHA	KHEPUPARA	CHITTAGONG (AMBAGAN)
16.11.23/0600	270, SSE	410, S	540, SSW	680 SW
17.11.23/0600	220, E	180, SE	220, SW	380, WSW
17.11.23/1800	330, ENE	210, E	90, WSW	250, WSW
18.11.23/0600	500, NE	340, ENE	150, N	190, NW



OBSERVED AND FORECAST TRACK AND INTENSITY ALONG WITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH DEEP DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 16TH NOVEMBER 2023.

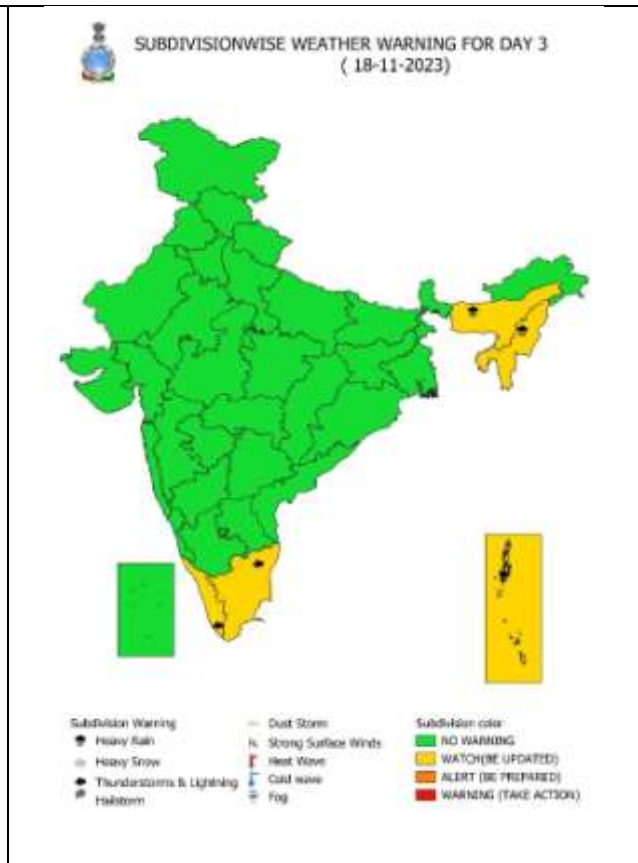
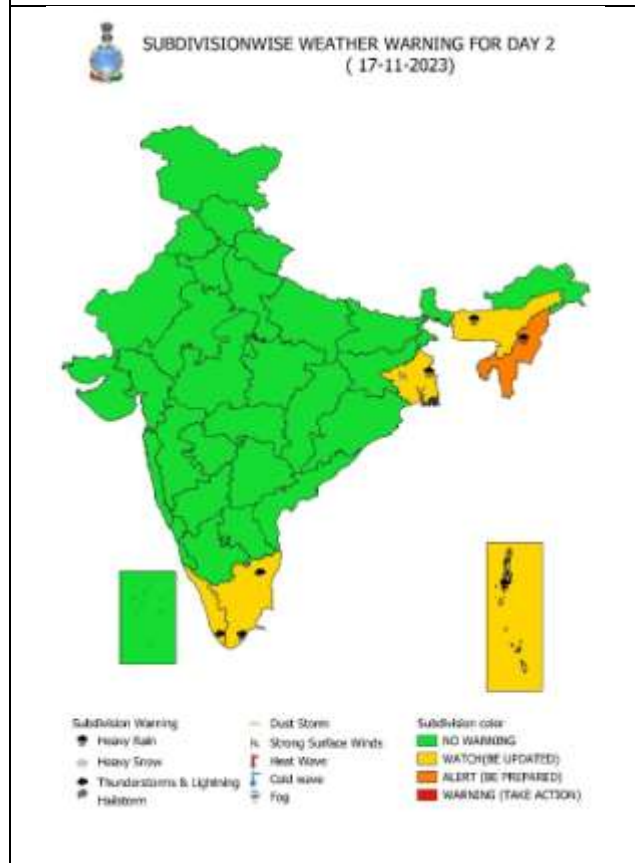
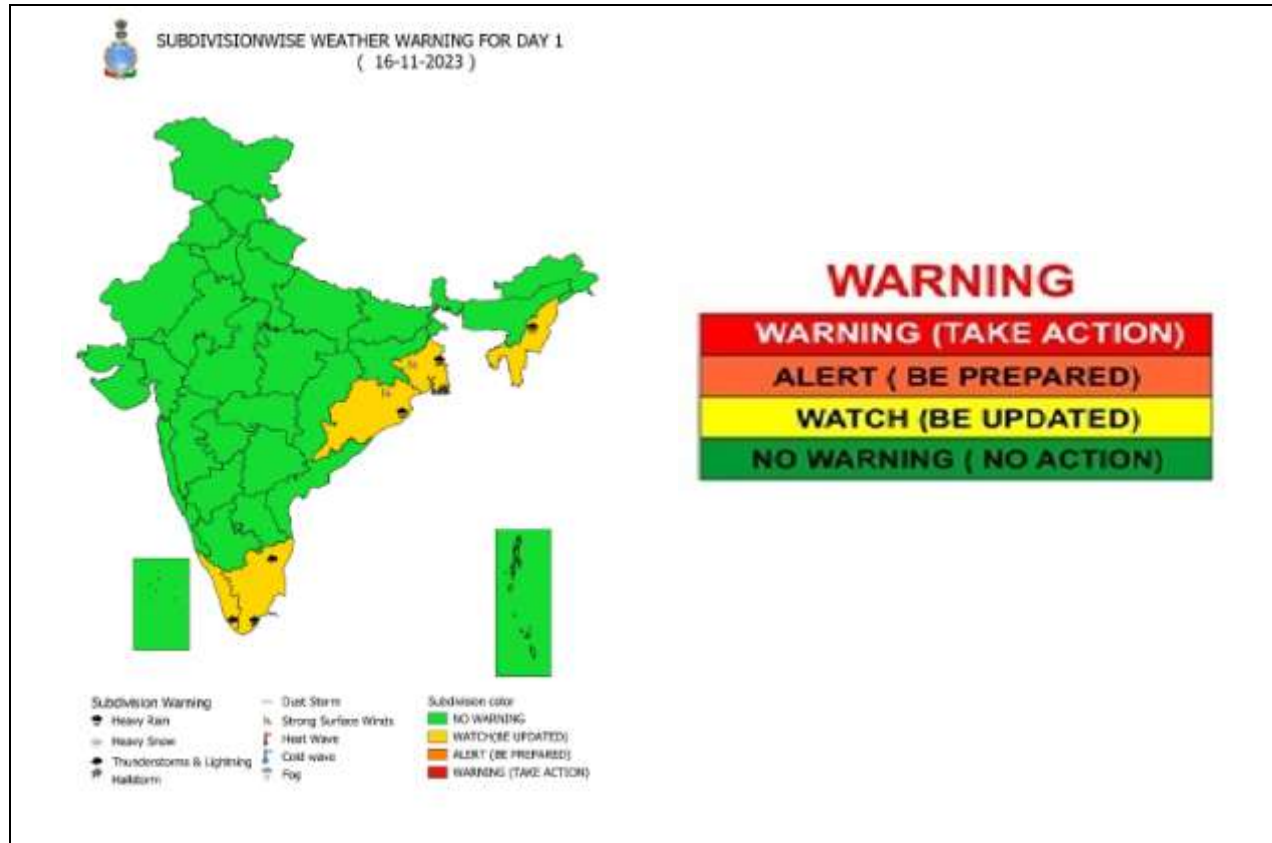


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

WEATHER WARNING GRAPHICS





**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(19-11-2023)**



- | | | |
|-----------------------------|------------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ● Heavy Rain | ⚡ Strong Surface Winds | 🟢 NO WARNING |
| ☁ Heavy Snow | 🔥 Heat Wave | 🟡 WATCH (BE UPDATED) |
| ⚡ Thunderstorms & Lightning | ❄ Cold wave | 🟠 ALERT (BE PREPARED) |
| ⚡ Hailstorm | 🌫 Fog | 🔴 WARNING (TAKE ACTION) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(20-11-2023)**



- | | | |
|-----------------------------|------------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ● Heavy Rain | ⚡ Strong Surface Winds | 🟢 NO WARNING |
| ☁ Heavy Snow | 🔥 Heat Wave | 🟡 WATCH (BE UPDATED) |
| ⚡ Thunderstorms & Lightning | ❄ Cold wave | 🟠 ALERT (BE PREPARED) |
| ⚡ Hailstorm | 🌫 Fog | 🔴 WARNING (TAKE ACTION) |



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

Fishermen warning graphics

Day 1: 16.11.2023/11:30AM to 17.11.2023/05:30AM



Day 2: 17.11.2023/05:30AM to 18.11.2023/05:30AM



Day 3: 18.11.2023/05:30AM to 19.11.2023/05:30AM



Day 4: 19.11.2023/05:30AM to 20.11.2023/05:30AM



Day 5: 20.11.2023/05:30AM to 21.11.2023/05:30AM



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

CS with Gale wind speed 60-90 kmph gusting to 110 kmph

Fishermen are advised not to venture into the marked areas.