



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

Press Release

Date: 15th November, 2023

Time of Issue: 1330 hours IST

Subject: i) Yesterday's Low Pressure Area has concentrated into a Depression over Westcentral Bay of Bengal at 0830 hrs IST of today. It is likely to intensify into a Deep Depression over Westcentral Bay of Bengal off Andhra Pradesh coast in the morning of 16th November.

ii) Isolated heavy to very heavy rainfall over coastal Odisha & West Bengal on 16th & 17th November.

Rainfall recorded during past 24 hours till 0830 hours IST of today:

- ❖ **Heavy to very heavy rainfall** observed at isolated places over coastal Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant Rainfall Amount (in cm): Tamil Nadu, Puducherry & Karaikal:** DGP Office (dist Chennai) 19, Velankanni (dist Nagapattinam), Kodiayakarai (dist Nagapattinam), Karaikal (dist Karaikal) 11 each, Ambathur (dist Chennai), Chennai Collector Office (dist Chennai), Kodambakkam (dist Chennai) 9 each, Kathivakkam (dist Chennai), Sholinganallur (dist Chennai), Mahabalipuram (dist Chengalpattu), Nagapattinam (dist Nagapattinam), Hindustan University (dist Kancheepuram), Alandhur (dist Chennai), Adyar Eco Park (dist Chennai), Anna University (dist Chennai) 8 each.

Weather Systems, forecast & warnings for next 5 days

- ❖ 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 15th 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 16th November. Thereafter, it would recurve north-northeastwards and reach over Northwest Bay of Bengal off Odisha coast on 17th morning & off North Odisha-West Bengal coasts on 18th November morning (**refer Annexure III-V for details**).
- ❖ An upper air **cyclonic circulation** lies over north Sri Lanka & neighbourhood extending upto middle-tropospheric levels. A **trough** runs from this cyclonic circulation to the cyclonic circulation associated with the Depression over Westcentral Bay of Bengal in the lower tropospheric levels.
Under their influence:

Warnings:

(i) Rainfall Warning (Graphics in Annexure I):

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

(ii) Fishermen Warning (Graphics in Annexure II):

Fishermen are advised not to venture into

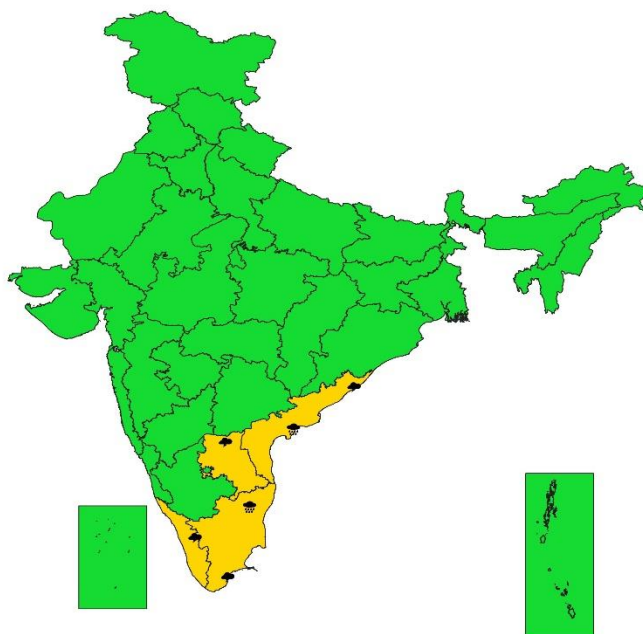
- Southeast & adjoining eastcentral Bay of Bengal and Andaman Sea on 15th November.
- Southwest Bay of Bengal on 15th & 16th November
- Westcentral Bay of Bengal during 15th to 17th November
- Northwest Bay of Bengal during 16th to 18th November
- Along & off Andhra Pradesh Coast during 15th to 17th November
- Along & off Odisha coast during 15th to 18th November
- Along & off West Bengal coast during 16th to 18th November
- Along & off Bangladesh coast during 16th to 18th November
- The Fishermen out at sea are advised to return to coast.

No significant weather likely over rest parts of the country.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php
and <https://mausam.imd.gov.in/responsive/cycloneinformation.php>



SUBDIVISIONWISE WEATHER WARNING FOR DAY 1 (15-11-2023)



Subdivision Warning

- Heavy Rain
- Heavy Snow
- Thunderstorms & Lightning
- Hailstorm

Dust Storm

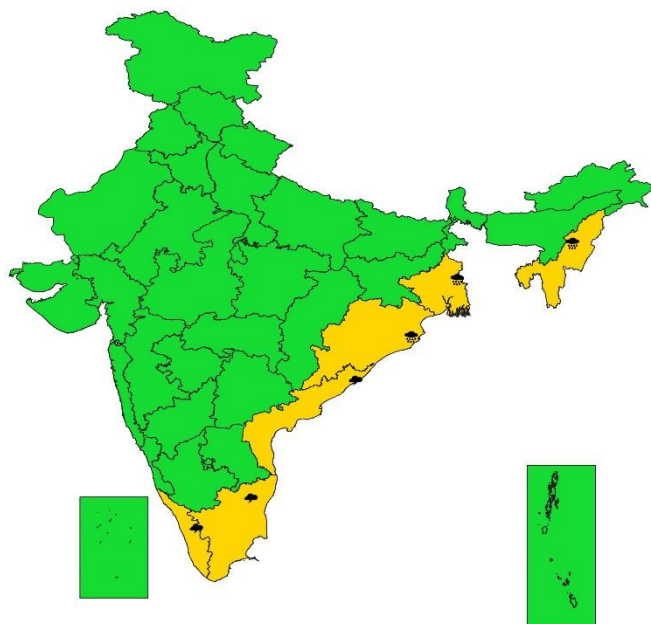
- Strong Surface Winds
- Heat Wave
- Cold wave
- Fog

Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2 (16-11-2023)



Subdivision Warning

- Heavy Rain
- Heavy Snow
- Thunderstorms & Lightning
- Hailstorm

Dust Storm

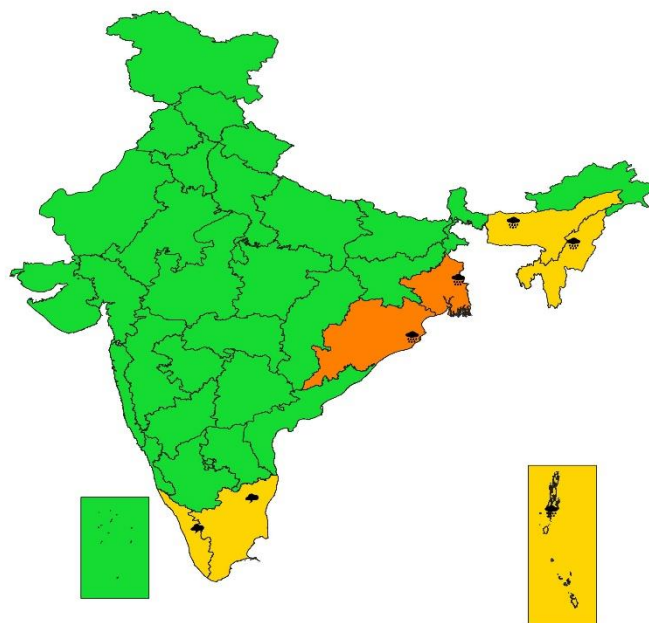
- Strong Surface Winds
- Heat Wave
- Cold wave
- Fog

Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3 (17-11-2023)



Subdivision Warning

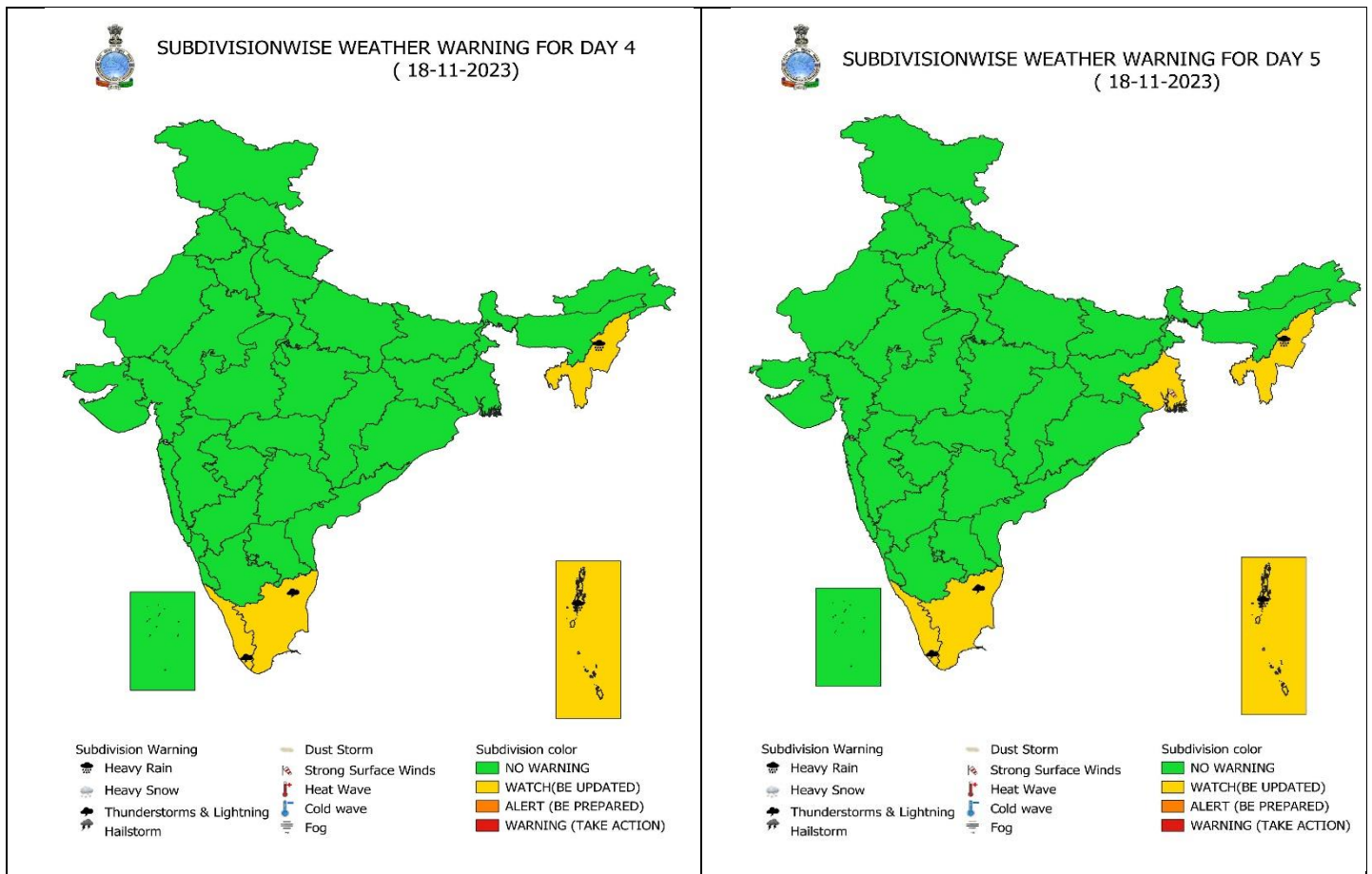
- Heavy Rain
- Heavy Snow
- Thunderstorms & Lightning
- Hailstorm

Dust Storm

- Strong Surface Winds
- Heat Wave
- Cold wave
- Fog

Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)



Impact & Action Suggested due to very heavy rainfall/extremely heavy falls over coastal Odisha and coastal West Bengal on 17th November.

A. Impact Expected

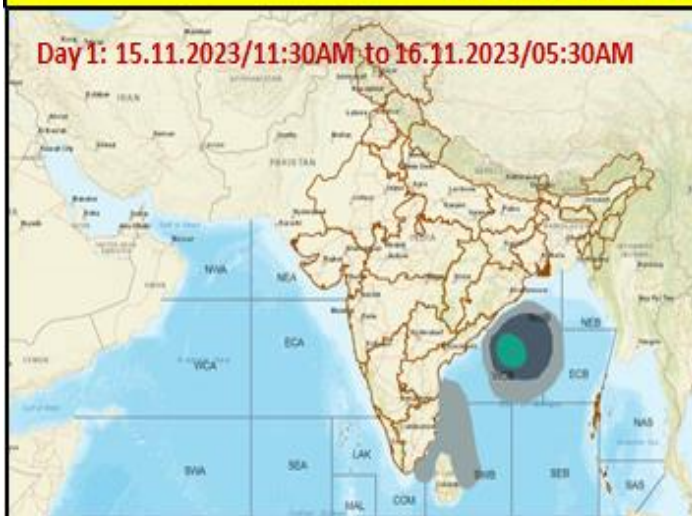
- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

B. Action Suggested

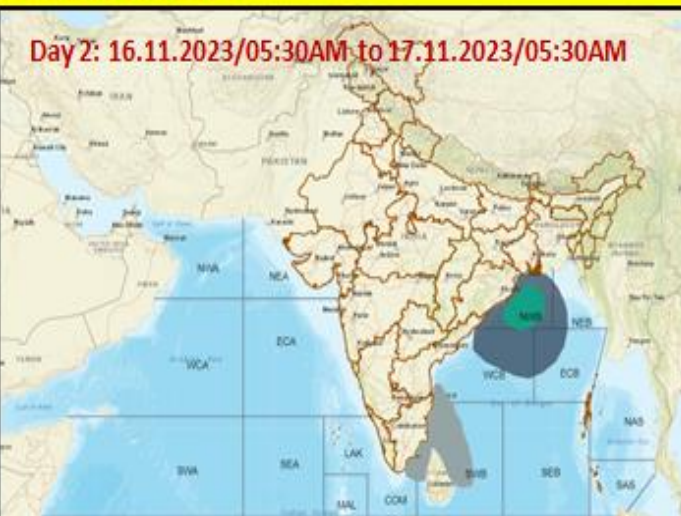
- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

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

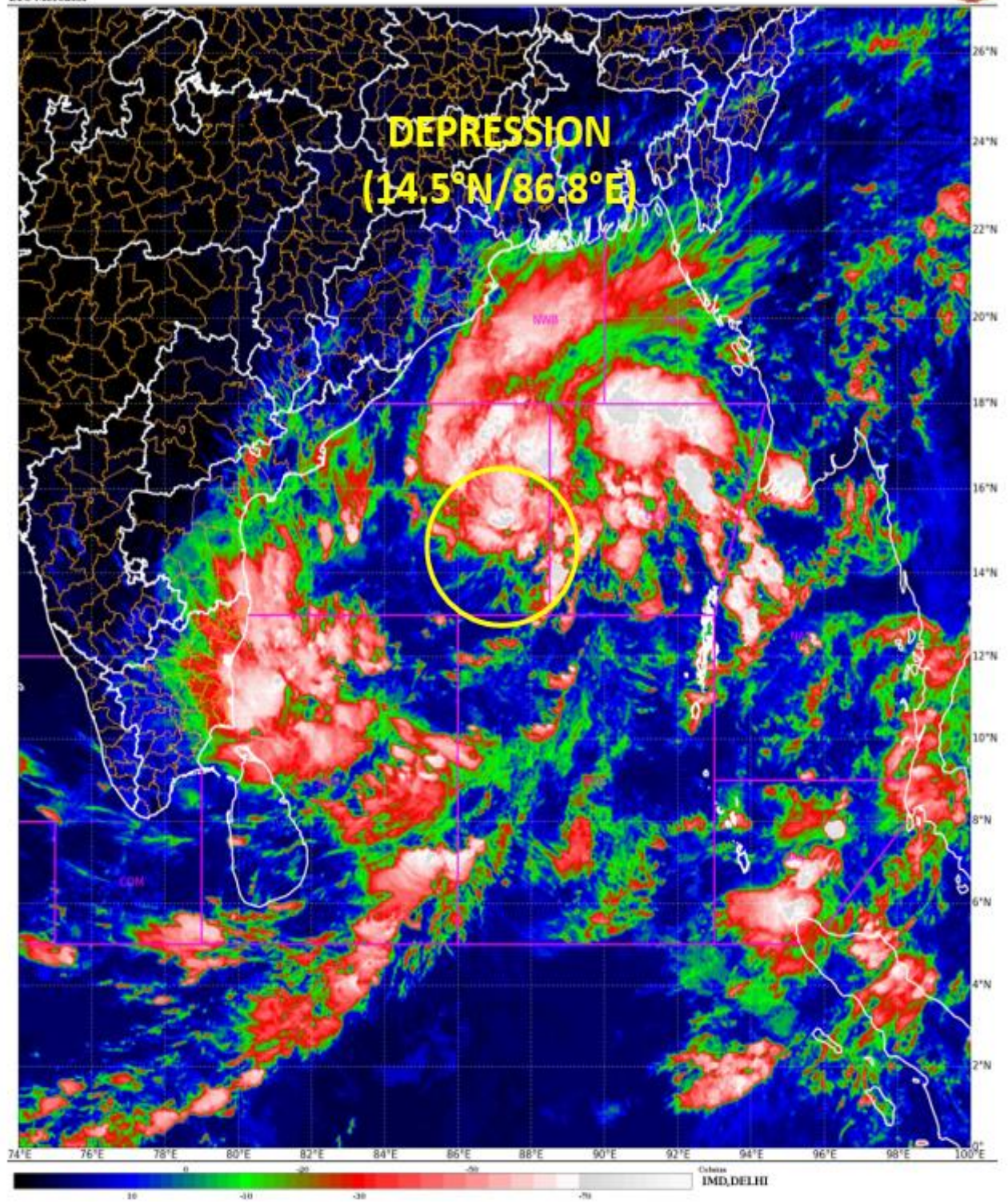
Squally WX with wind speed 45-55 kmph gusting to 65 kmph

Squally wind with speed 50-60 kmph gusting to 70 kmph

Fishermen are advised not to venture into the marked areas.

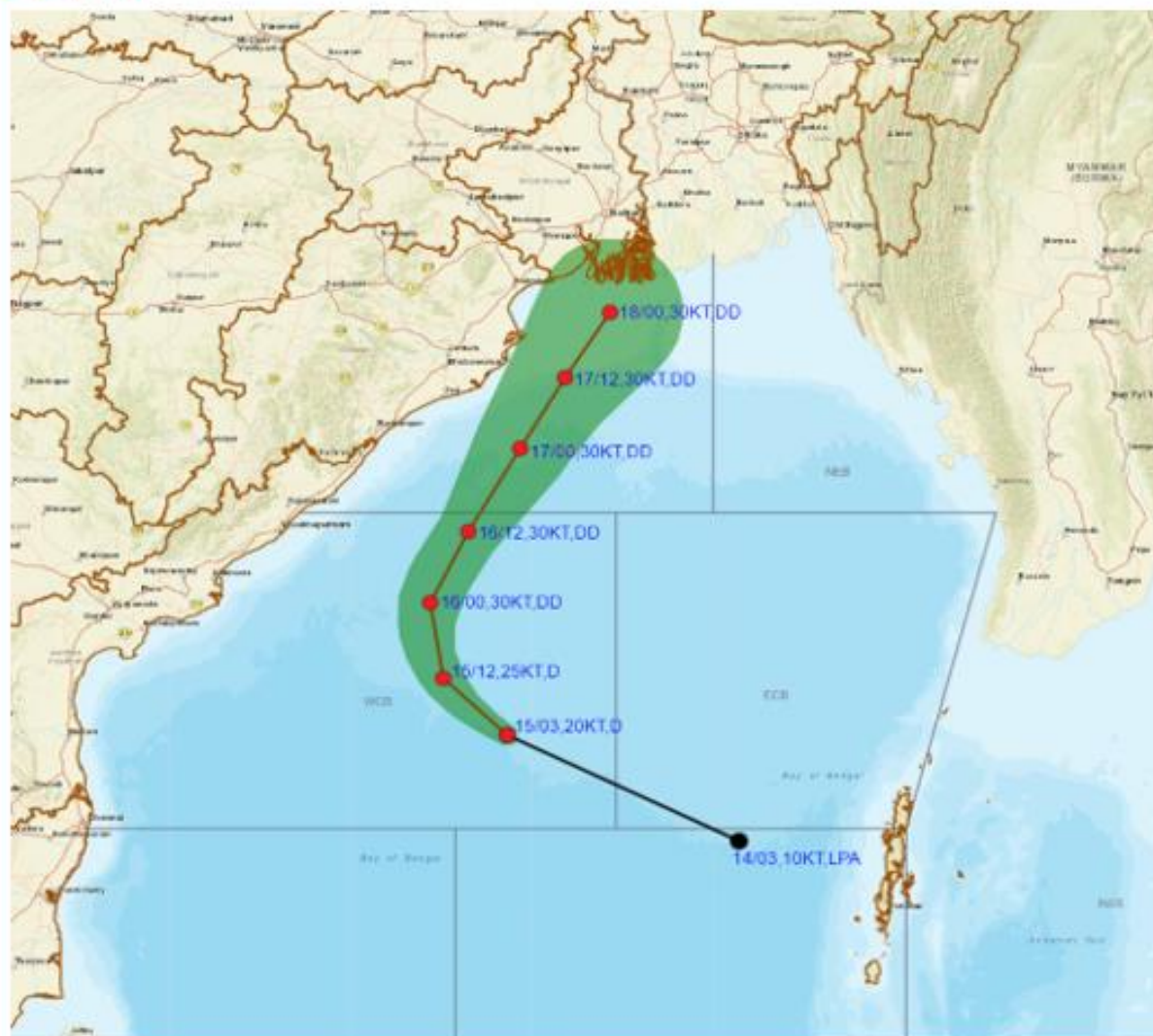
SAT : INSAT-3DR IMG
IMG_TIR1_TEMP 10.8 um
LIC Mercator

15-11-2023/(0545 to 0612) GMT
15-11-2023/(1115 to 1142) IST





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 15TH 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

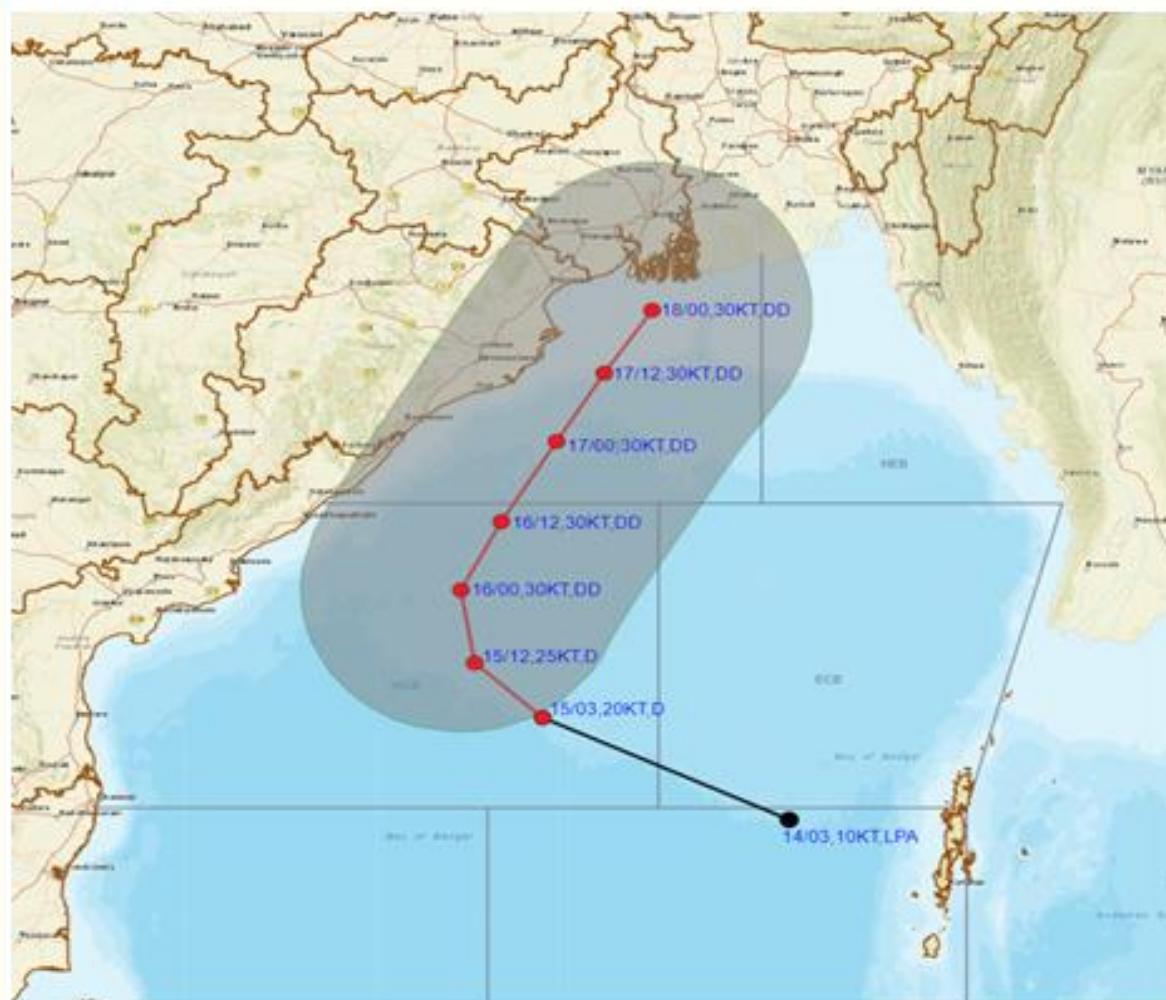
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



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 15TH NOVEMBER 2023.



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

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● 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

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

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)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)