

भारत सरकार
पृथ्वी विज्ञान मंत्रालय
भारत मौसम विज्ञान विभाग
प्रमुख - पूर्व क्षेत्र
प्रादेशिक मौसम केन्द्र
4, ड्यूल एवेन्यू, अलीपुर,
कोलकाता - 700 027



Government of India
Ministry of Earth Sciences
India Meteorological Department
Head - Eastern Region
Regional Meteorological Centre
4, Duel Avenue, Alipore,
Kolkata-700 027

No.W-00102/IX /

Dated: 22-10-2024

Time:1000 Hrs IST

Special Bulletin No.–6

Subject: Depression over eastcentral Bay of Bengal (Pre-Cyclone Watch for Odisha and West Bengal coasts)

Yesterday's well marked low pressure area over Eastcentral Bay of Bengal moved west-northwestwards, concentrated into a depression and lay centred at 0000 UTC of today, the 22nd October, over the same region near latitude 15.4° N and longitude 91.2°E, about 730 km southeast of Paradip (42976, Odisha), 770 km south-southeast of Sagar Island (West Bengal) and 740 km south-southeast of Khepupara (41984, Bangladesh).

It is very likely to move west-northwestwards and intensify into a cyclonic storm by 23rd October, 2024 over eastcentral Bay of Bengal. Thereafter, continuing to move northwestwards, it is very likely to intensify into a severe cyclonic storm over northwest Bay of Bengal by 0000 UTC of 24th and cross north Odisha and West Bengal coasts between Puri and Sagar Island during 1800 UTC of 24th and 0000 UTC OF 25th October, 2024 as a severe Cyclonic Storm with a wind speed of 100-110 kmph gusting 120 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
22.10.24/0530	15.4/91.2	35-45 gusting to 55	Depression
22.10.24/1130	15.6/90.7	40-50 gusting to 60	Depression
22.10.24/1730	15.8/90.2	45-55 gusting to 65	Depression
22.10.24/2330	16.1/89.7	50-60 gusting to 70	Deep Depression
23.10.24/0530	16.5/89.2	55-65 gusting to 75	Deep Depression
23.10.24/1730	17.4/88.4	65-75 gusting to 85	Cyclonic Storm
24.10.24/0530	18.7/87.8	80-90 gusting to 100	Cyclonic Storm
24.10.24/1730	20.0/87.5	95-105 gusting to 115	Severe Cyclonic Storm
25.10.24/0530	21.0/86.8	100-110 gusting to 120	Severe Cyclonic Storm
25.10.24/1730	21.5/85.8	70-80 gusting 90	Cyclonic Storm

Rainfall Forecast & warnings:

23rd October 2024: Light to moderate rain/thundershowers at many places over East & West Mednipur and North & South 24 Parganas districts and a few places over rest districts of south Bengal

with Heavy rainfall (07-11cm) very likely to occur at one or two places East & West Mednipur and North & South 24 Parganas districts.

24th October 2024: Light to moderate rain/thundershowers at most places with Heavy to very heavy rainfall (07-20cm) at a few places with extremely heavy rain (>20 cm) at one or two places very likely to occur over East Midnapore, West Midnapore, South 24 Parganas districts; Heavy to very heavy rainfall (07-20cm) at one or two places very likely to occur over Kolkata, Howrah, Hoogly, North 24 Parganas and Jhargram districts ; Heavy rainfall (07-11cm) at one or two places likely to occur over the rest districts of South Bengal.

25th October 2024 : Light to moderate rain/thundershowers at most places with Heavy to very heavy rainfall (07-20cm) at a few places very likely to occur over East Midnapore, West Midnapore, South 24 Parganas and Jhargram districts with extremely heavy rain (>20 cm) at one or places over West Midnapore and Jhargram districts ; Heavy to very heavy rainfall (07-20cm) at one or two places very likely to occur over Kolkata, Howrah, Hoogly, North 24 Parganas, Purulia and Bankura districts; Heavy rainfall (07-11cm at one or two places) likely to occur over the rest districts of Gangetic West Bengal.

Wind Warning:

Eastcentral Bay of Bengal: Squally wind speed reaching 40-50 gusting to 60 kmph is very likely on 22nd October, 55-65 gusting to 75 kmph by 22nd night, 70-90 kmph gusting to 100 kmph from 23rd evening till 24th morning.

Adjoining areas of Westcentral Bay of Bengal: Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 22nd evening, 70-90 gusting to 65 kmph from 23rd morning to 24th afternoon.

Northwest Bay of Bengal: Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd morning. It would gradually increase becoming gale wind speed reaching 70-90 gusting to 100 kmph from 23rd night to 24th morning and 100-110 kmph gusting to 120 kmph from 24th Oct evening to 25th Oct morning and decrease gradually thereafter.

Adjoining areas of northeast Bay of Bengal: Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd night till 25th morning and decrease gradually thereafter.

Along & off Odisha-west Bengal coasts: Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd Oct evening. It would gradually increase becoming gale wind speed reaching 100-110 kmph gusting to 120 kmph from 24th Oct evening till 25th Oct morning and decrease gradually thereafter.

Sea Condition:

Eastcentral Bay of Bengal: Sea condition is likely to be Rough to Very Rough on 22nd October, becoming very rough to high from 23rd morning till 24th October morning.

Adjoining areas of Westcentral Bay of Bengal: Sea condition is likely to be Rough to Very Rough on 23rd and 24th October.

Northwest Bay of Bengal: Sea condition is likely to be Rough to Very Rough from 23rd morning and would become High to Very High from 23rd night till 25th morning and improve gradually thereafter.

Adjoining areas of northeast Bay of Bengal: Sea condition is likely to be Rough to Very Rough from 23rd night till 25th morning and improve gradually thereafter.

Along & off Odisha-west Bengal coasts: Sea condition is likely to be Rough to Very Rough from 23rd evening and would become High to Very High from 24th October evening to 25th Oct forenoon and improve gradually thereafter.

Fishermen Warning:

Fishermen are advised not to venture into deep sea over Eastcentral Bay of Bengal till 24th Oct adjoining areas of Westcentral Bay of Bengal on 23rd and 24th Oct.; North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts during 23rd to 25th October. Fishermen out at sea are advised to return to coast.

Port Warning : Distance Cautionary Signal No-1 (DC-1) hoisted at Hooghly Ports(Kolkata and Hadia) and Sectional Signal No-3 hoisted at Sagar Island.

*Warning maps are given attached for graphical information.

❖ Impact Expected (South & North 24 Parganas, East & West Medinipur, Jhargram , Howrah, Hooghly, Kolkata & Bankura districts of West Bengal)

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Water logging in low lying areas, localized flooding of roads, 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 and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents
- Likely disruption of marine and inland water transportation like small boats and trawlers.
- Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- Possibilities of damage to vulnerable structure. Breaking of tree branches and uprooting of trees. Moderate damage to banana and papaya trees. Large dead limbs blown from trees.
- Damage to power and communication lines.
- Damage to embankments/ salt pans.
- Damage to horticulture and standing crops in some areas due to inundation and wind.
- It may lead to riverine flooding in some river catchments (Viz, Kangasabati, Damodar lower valley etc)(for riverine flooding please visit Webpage of Central Water Commission)

Action Suggested (South & North 24 Parganas, East & West Medinipur, Jhargram, Howrah, Hooghly, Kolkata & Bankura districts of West Bengal)

Total suspension of fishing operations during 23rd to 25th Oct, 2024 over North Bay of Bengal.

- Judicious regulation of onshore/offshore, Port and maritime activities including shipping.
- Judicious regulation of surface transports including railways and roadways and Ferry Services.
- Coastal hutment dwellers to be moved to safer places.
- People in affected areas to remain indoors.
- Check for traffic congestion on your route before leaving for your destination.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure and houses.

N.B.: Spatial rainfall distribution: Isolated: <=25%, Afew:26-50%, Many:51-75%, Most:76-100%, Rainfall amount (mm): Heavy rain: 64.5 –115.5, Very heavy rain: 115.6 – 204.4,extremely heavy rain:204.5 or more. Probabilistic forecast: Unlikely =< 25%, likely 26-50%, Very likely 51-75%, Most likely > 75%

ColorcodeforWarning:

No Warning (No Action)

Alert (Be Prepared To Take Action)

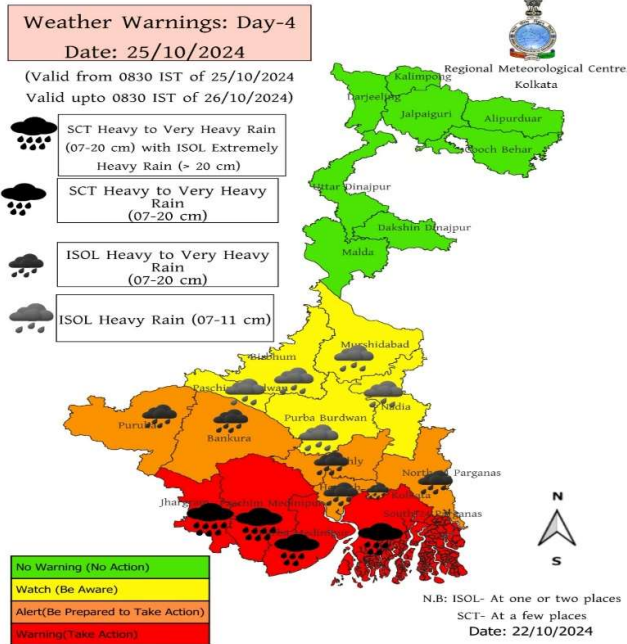
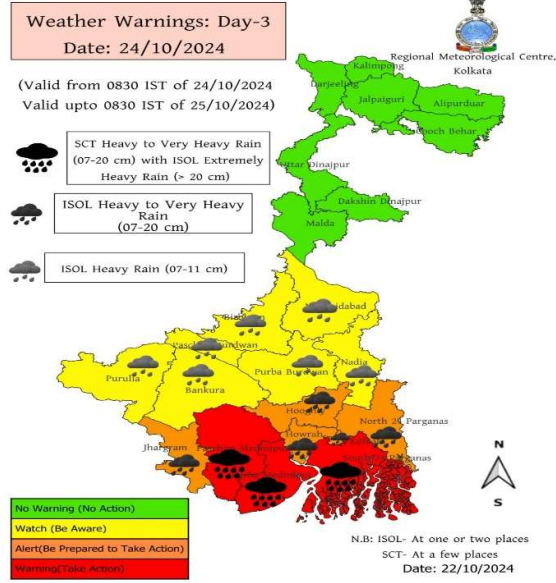
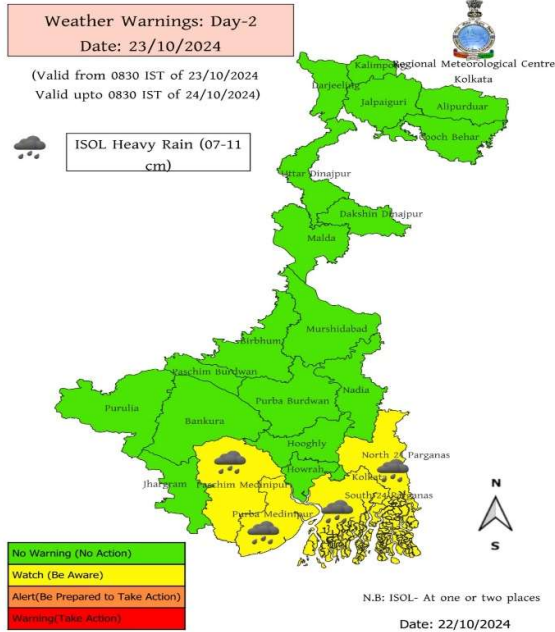
Watch (Be Aware)

Warning (Take Action)

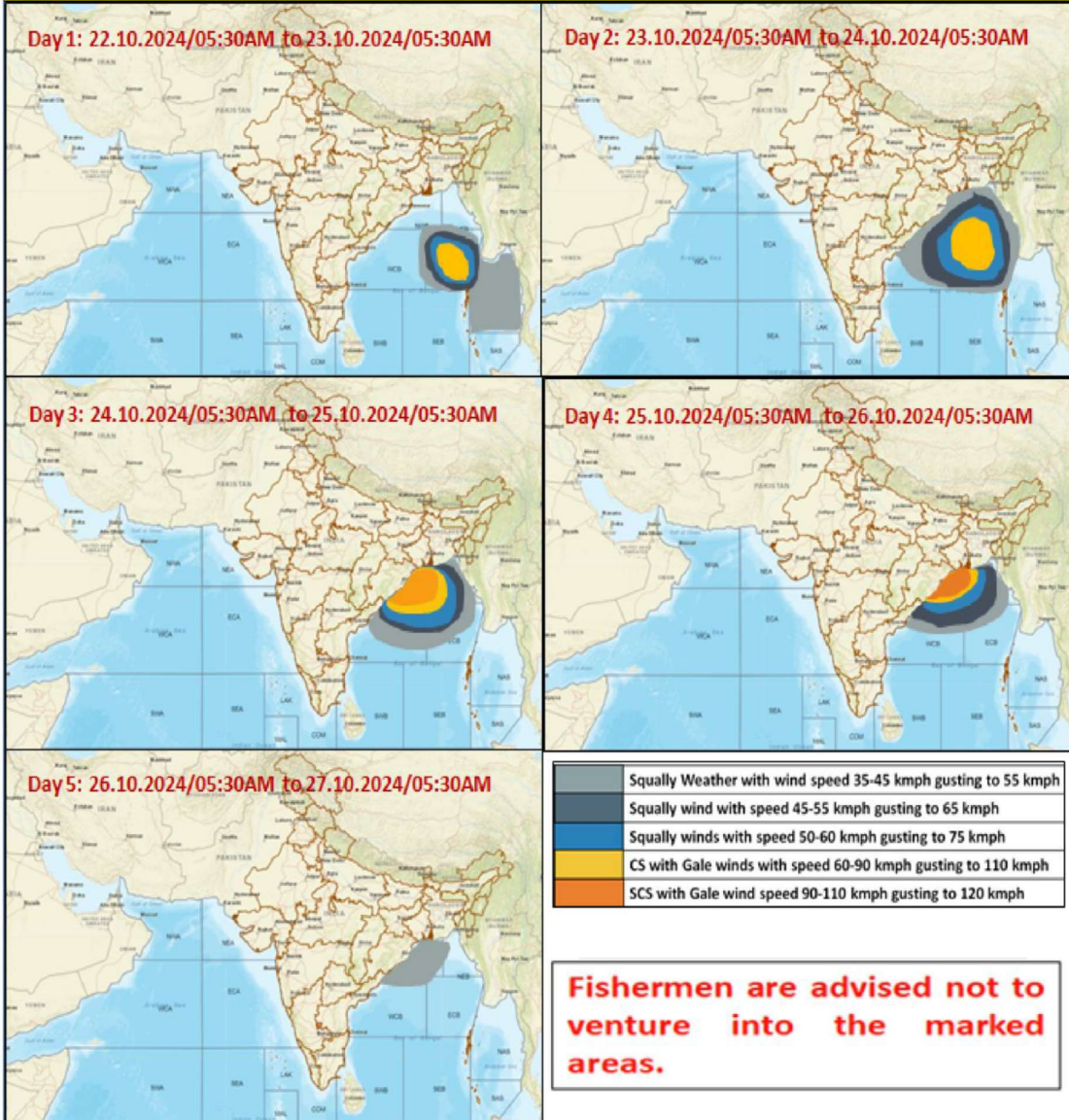
Sd/-
(Dr. HR Biswas)
Scientist –F
ForHead,RMC,Kolkata

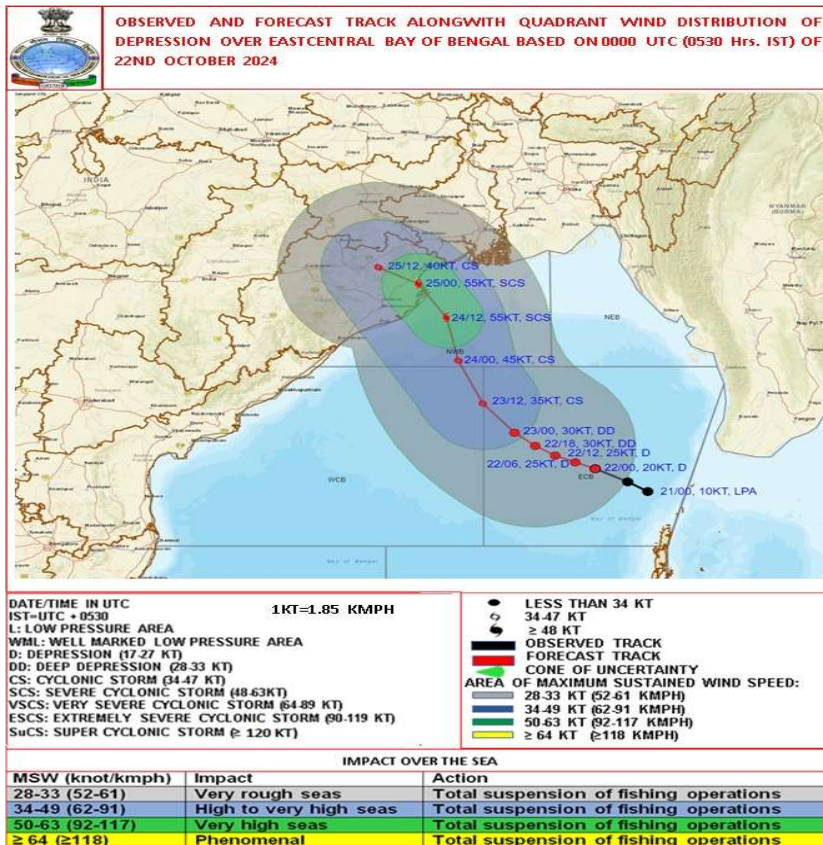
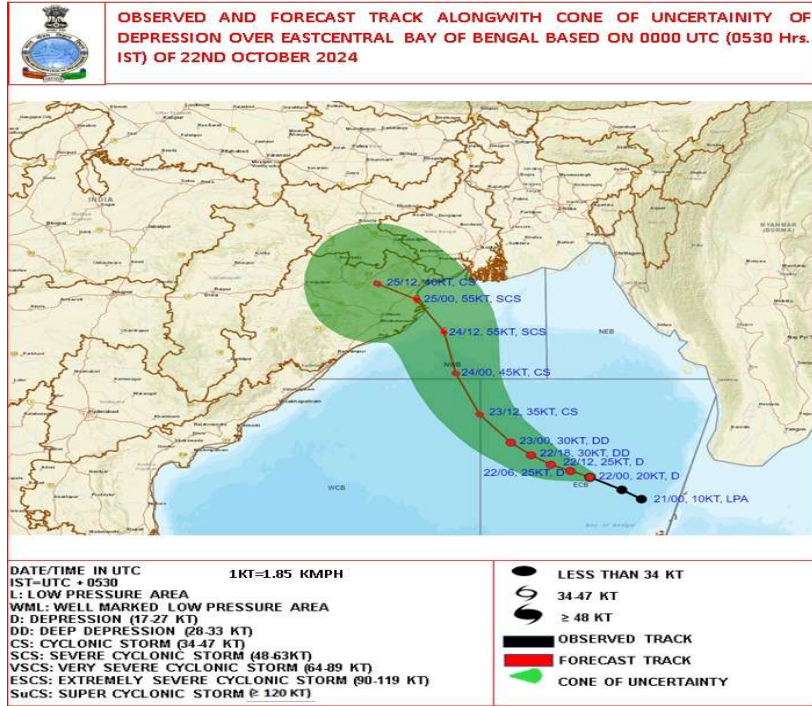
Next Update at 1300 hrs IST of 22.10.2024.

Note: For detail information please visit our
 Website: <https://mausam.imd.gov.in/kolkata/>
 Facebook page: <https://www.facebook.com/WeatherOffice.Kolkata>
 Twitter: <https://x.com/lmdkolkata>
 WhatsApp channel: <https://whatsapp.com/channel/0029VaD6VGS3QxS9vKh3e13C>
 Mausam App: <https://play.google.com/store/apps/details?id=com.imd.masuam>



Fishermen Warning Graphics





To

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