



India Meteorological Department  
(Ministry of Earth Sciences)

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**Sub: Cyclonic Storm 'Yaas' (pronounced as 'Yass') over Eastcentral Bay of Bengal –  
(Cyclone Alert for Odisha – West Bengal coasts-[Yellow Message](#)).**

The **Cyclonic Storm 'Yaas' (pronounced as 'Yass')** over Eastcentral Bay of Bengal moved north-northwestwards with a speed of about 07 kmph during past 6 hours, and lay centred at 1430 hrs IST of today, the 24<sup>th</sup> May, 2021 over Eastcentral Bay of Bengal near latitude 16.8°N and longitude 89.5°E, about 670 km north-northwest of Port Blair (Andaman Islands), 490 km south-southeast of Paradip (Odisha), 590 km south-southeast of Balasore (Odisha) and 580 km south-southeast of Digha (West Bengal).

It is very likely to move north-northwestwards, intensify further into a **Severe Cyclonic Storm** during next 12 hours and into a **Very Severe Cyclonic Storm** during subsequent 24 hours. It would continue to move north-northwestwards, intensify further and reach Northwest Bay of Bengal near north Odisha and West Bengal coasts by 26<sup>th</sup> May early morning. It is very likely to cross north Odisha-West Bengal coasts between Paradip and Sagar Island around Balasore, during noon of 26<sup>th</sup> May as a Very Severe Cyclonic Storm.

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
24.05.21/1430	16.8/89.5	70-80 gusting to 90	Cyclonic Storm
24.05.21/1730	17.1/89.3	80-90 gusting to 100	Cyclonic Storm
24.05.21/2330	17.5/89.1	90-100 gusting to 110	Severe Cyclonic Storm
25.05.21/0530	18.2/88.5	105-115 gusting to 125	Severe Cyclonic Storm
25.05.21/1130	18.9/88.2	125-135 gusting to 150	Very Severe Cyclonic Storm
25.05.21/2330	20.2/87.6	155-165 gusting to 185	Very Severe Cyclonic Storm
26.05.21/1130	21.2/87.1	155-165 gusting to 185	Very Severe Cyclonic Storm
26.05.21/2330	22.3/86.5	105-115 gusting to 125	Severe Cyclonic Storm
27.05.21/1130	23.1/86.0	55-65 gusting to 75	Deep Depression
27.05.21/2330	23.7/85.5	35-45 gusting to 55	Depression

### **Warnings:**

#### **(i) Rainfall:**

•**North Coastal Andhra Pradesh:** Light to moderate rainfall at many places with heavy falls at isolated places on 24<sup>th</sup> May and heavy to very heavy falls at isolated places on 25<sup>th</sup> May.

•**Odisha:** Light to moderate rainfall at many places with heavy falls at isolated places over Coastal Odisha on 24<sup>th</sup>, with heavy to very heavy rainfall in Puri, Jagatsinghpur, Khurda, Cuttack, Kendrapara, Jajpur, Bhadrak, Balasore districts and heavy over Ganjam, Dhenkanal, Mayurbhanj districts on 25<sup>th</sup>, heavy to very heavy rains at a few places with extremely heavy falls at isolated places in Jagatsinghpur, Cuttack, Kendrapara, Jajpur, Bhadrak, Balasore, Mayurbhanj, Dhenkanal, Keonjhar and heavy falls at isolated places in Puri, Khurda, Angul, Deogarh, Sundergarh on 26<sup>th</sup> May and heavy rainfall at isolated places in north interior Odisha on 27<sup>th</sup>.

• **West Bengal & Sikkim:** Light to moderate rainfall at most places with heavy falls at isolated places over coastal districts of West Bengal on 24<sup>th</sup>, heavy to very heavy rainfall over Medinipur, South 24 Parganas and heavy rainfall at isolated places in Howrah, Hooghly, & north 24 Parganas districts on 25<sup>th</sup>, extremely heavy rainfall at isolated places over Jhargram, Medinipur, south 24 Parganas and heavy to very heavy rainfall at a few places over Purulia, Bankura, Bardhaman, Howrah, Hooghly, Kolkata, north 24 Parganas, Bhirbhum and heavy falls at isolated places over Nadia, Murshidabad, Darjeeling Districts on 26<sup>th</sup> May and heavy to very heavy rain at isolated places in Malda & Darjeeling, Dinajpur, Kalimpong, Jalpaiguri, Sikkim and heavy rain at a few places over Bankura, Purulia, Bardhaman, Bhirbhum & Murshidabad on 27<sup>th</sup> May.

• **Jharkhand:** Light to moderate rainfall at most places with heavy to very heavy rainfall and extremely heavy falls at isolated places on 26<sup>th</sup> & 27<sup>th</sup> May and isolated heavy falls on 28<sup>th</sup> May.

• **Bihar:** Light to moderate rainfall at most places with heavy to very heavy rainfall and extremely heavy falls at isolated places on 27<sup>th</sup> May and isolated heavy to very heavy falls on 28<sup>th</sup> May.

• **Assam & Meghalaya:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places on 26<sup>th</sup> & 27<sup>th</sup> May.

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

- Squally wind speed reaching 50–60 kmph gusting to 70 kmph prevailing over eastcentral Bay of Bengal and adjoining north Andaman Sea during next 12 hours.
- Gale winds speed reaching 70–80 kmph gusting to 90 kmph prevailing over Westcentral adjoining Eastcentral Bay of Bengal. It is very likely to increase further becoming Gale wind speed reaching 90 - 100 kmph gusting to 110 kmph over major parts of central Bay of Bengal by 24th evening and would decrease gradually from 25<sup>th</sup> Afternoon.
- Squally wind speed reaching 40-50 kmph gusting 60 kmph is prevailing over North Bay of Bengal and adjoining westcentral Bay of Bengal along and off north Andhra Pradesh-Odisha–West Bengal–Bangladesh coasts. It would increase gradually becoming 60-80 kmph gusting to 90 kmph over Jagatsinghpur, Kendrapara, Bhadrak, Balasore & Puri districts of Odisha and East Medinipur & South 24 Parganas districts of West Bengal from 25th forenoon. Squally wind speed reaching 40-50 kmph gusting to 60 kmph would prevail over Ganjam, Khurda, Cuttack, Jajpur, Mayurbhanj districts of Odisha and Howrah, Hooghly & 24 Parganas districts of West Bengal during the same period.
- It would further increase becoming gale wind speed 60-80 kmph gusting to 90 kmph from 26th early hours over northwest Bay of Bengal and along and off West Bengal & north Odisha & Bangladesh coasts It would gradually increase further becoming 90-100 gusting to 110 kmph from 26th early hours and increase thereafter becoming 155-165 kmph gusting to 185 kmph over northwest Bay of Bengal along & off West Bengal & north Odisha including Jagatsinghpur, Kendrapara, Bhadrak, Balasore districts of Odisha, 90-120 kmph gusting to 145 kmph over Mayurbhanj district of Odisha & East Medinipur & South 24 Parganas districts of West Bengal. Gale wind speed reaching 70-90 kmph gusting to 100 kmph would prevail over Puri, Cuttack, Khurda, Jajpur districts of Odisha & Jhargram, West Medinipur, North 24 Parganas districts of West Bengal from 26th early hours.
- Squally wind speed reaching 60-80 kmph gusting to 90 kmph would prevail over Ganjam, Dhenkanal and Keonjhar districts of Odisha and Bankura, Purulia, Howrah, Hooghly, Nadia & Burdwan districts of West Bengal from 26<sup>th</sup> early hours. Squally wind speed reaching 50-60 kmph gusting to 70 kmph would prevail over Angul, Deogarh & Sundergarh districts of Odisha, Birbhum & Murshidabad districts of West Bengal and Srikakulam, Vijayanagaram & Vishakhapatnam districts of Andhra Pradesh during same period.
- Squally wind speed reaching 40-50 kmph gusting 60 kmph is very likely to prevail over south Jharkhand from on 26<sup>th</sup> noon and increase gradually becoming 90-120 kmph gusting to 130 kmph over southeast Jharkhand and 70-80 kmph gusting to 90 kmph over southwest Jharkhand during 26<sup>th</sup> evening / night.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph over Kendrapara, Bhadrak, Balasore, Mayurbhanj, Keonjhar, Sundergarh & Deogarh districts of Odisha and West Medinipur, Jhargram, Bankura & Purulia districts of West Bengal on 27<sup>th</sup>.

## **(iii) Sea condition**

- Sea condition is High to Very High over Westcentral & adjoining eastcentral Bay of Bengal. It is very likely to become Very High to Phenomenal over northern parts of central Bay of Bengal, north Bay of Bengal and along & off north Andhra Pradesh-Odisha–West Bengal–Bangladesh coasts during 25th – 26th May.

## **(iv) Fishermen Warning**

- The fishermen are advised not to venture into central Bay of Bengal during 24th–25th May and into north Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal–Bangladesh coasts from 24th – 26th May.
- Those who are out in the Deep Sea of north and adjoining central Bay of Bengal are advised to return to the coast.

**(v) Storm surge warning.**

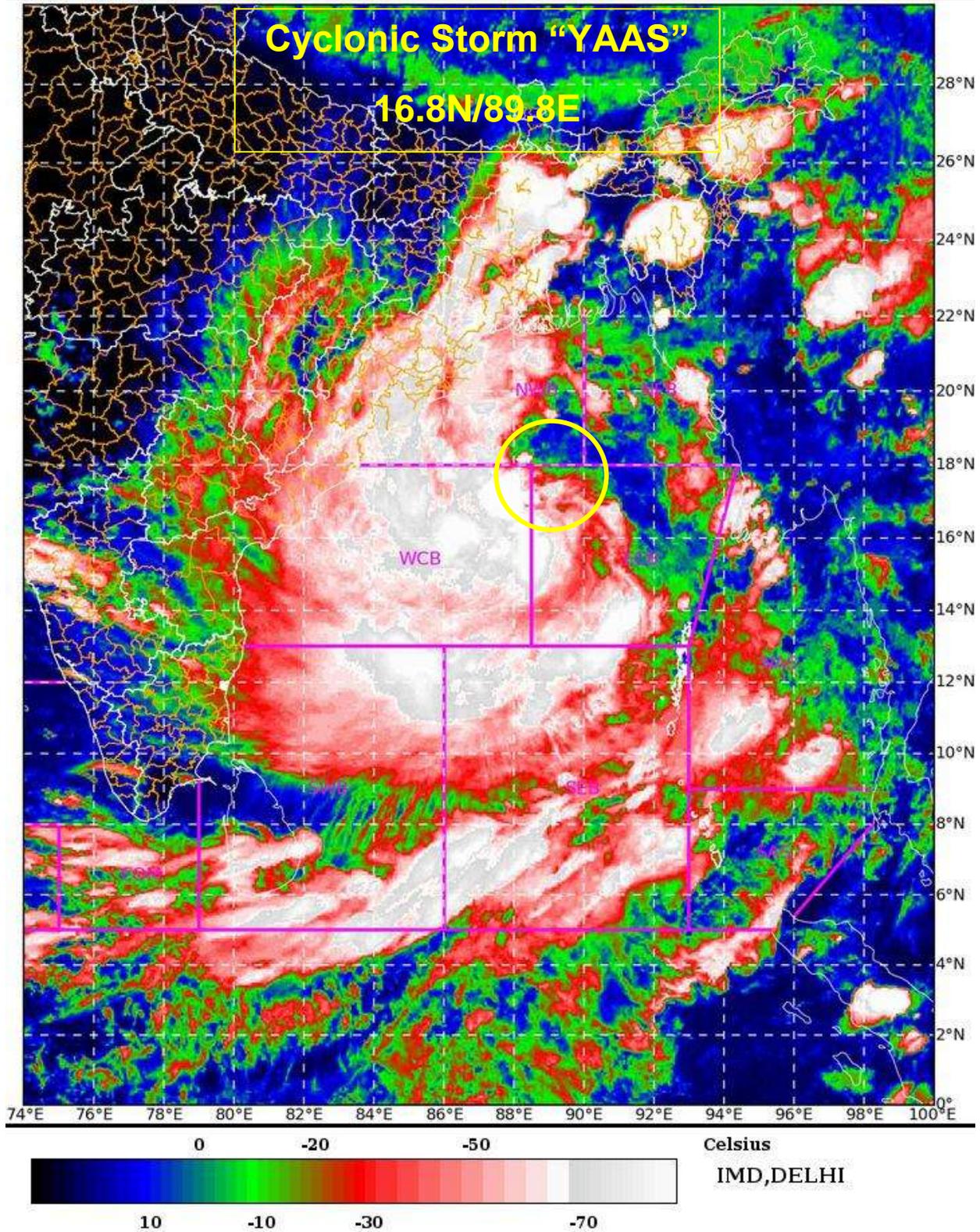
Tidal waves of height 2-4 meters above astronomical tide are likely to inundate low lying coastal areas of South 24 Parganas, Medinipur, Balasore, Bhadrak, Kendrapara & Jagatsinghpur Districts around the time of landfall.

*The next bulletin will be issued at 2030 hrs IST of today, the 24<sup>th</sup> May, 2021.*

**(A K Das)**  
**Scientist-E, RSMC, New Delhi**

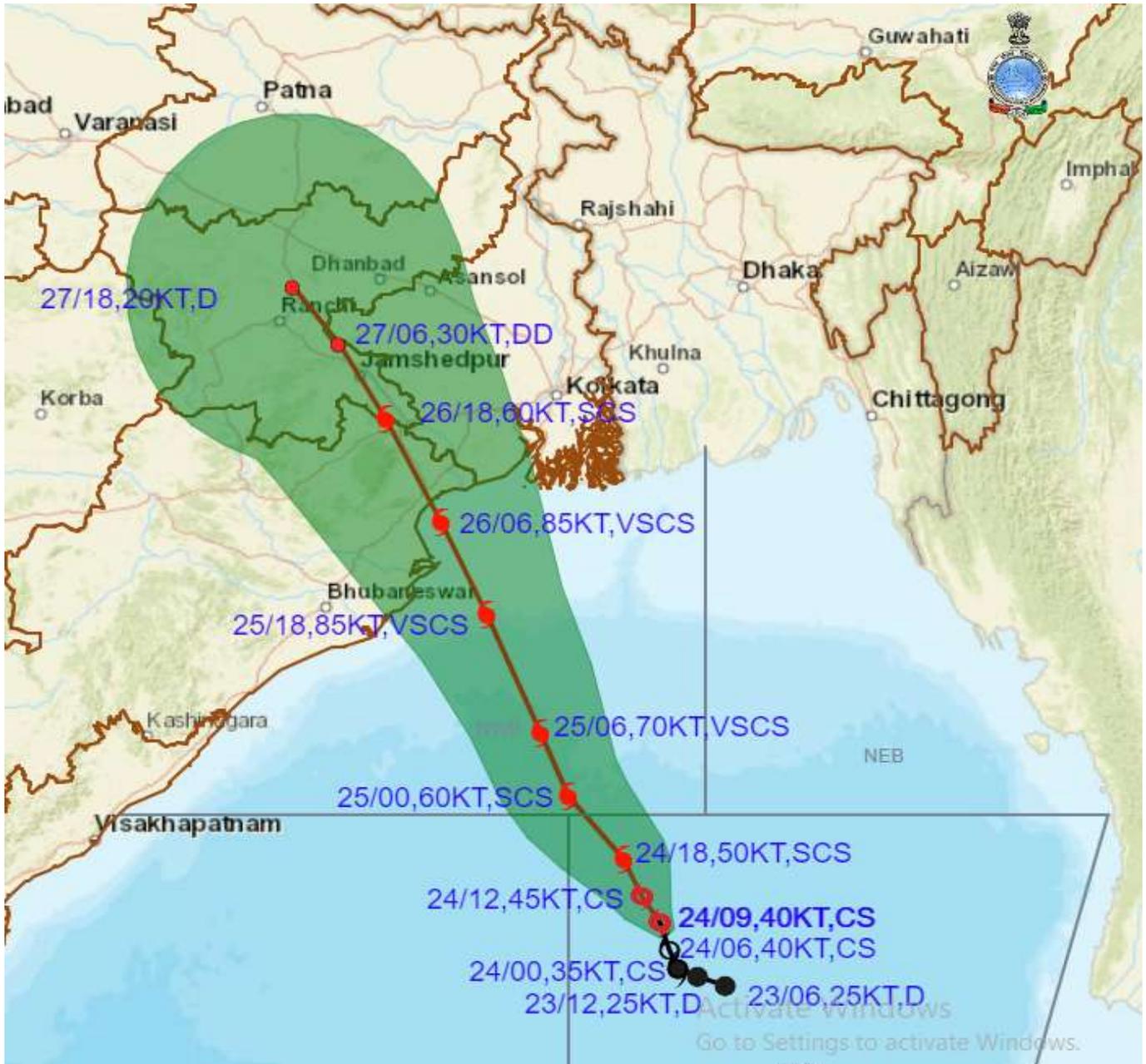
*Copy to: ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam*

SAT : INSAT-3D IMG      24-05-2021/(1100 to 1126) GMT  
IMG\_TIR1\_TEMP 10.8 um    24-05-2021/(1630 to 1656) IST  
L1C Mercator





# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "YAAS" OVER EASTCENTRAL BAY OF BENGAL BASED ON 0900 UTC OF 24<sup>th</sup> MAY, 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)

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

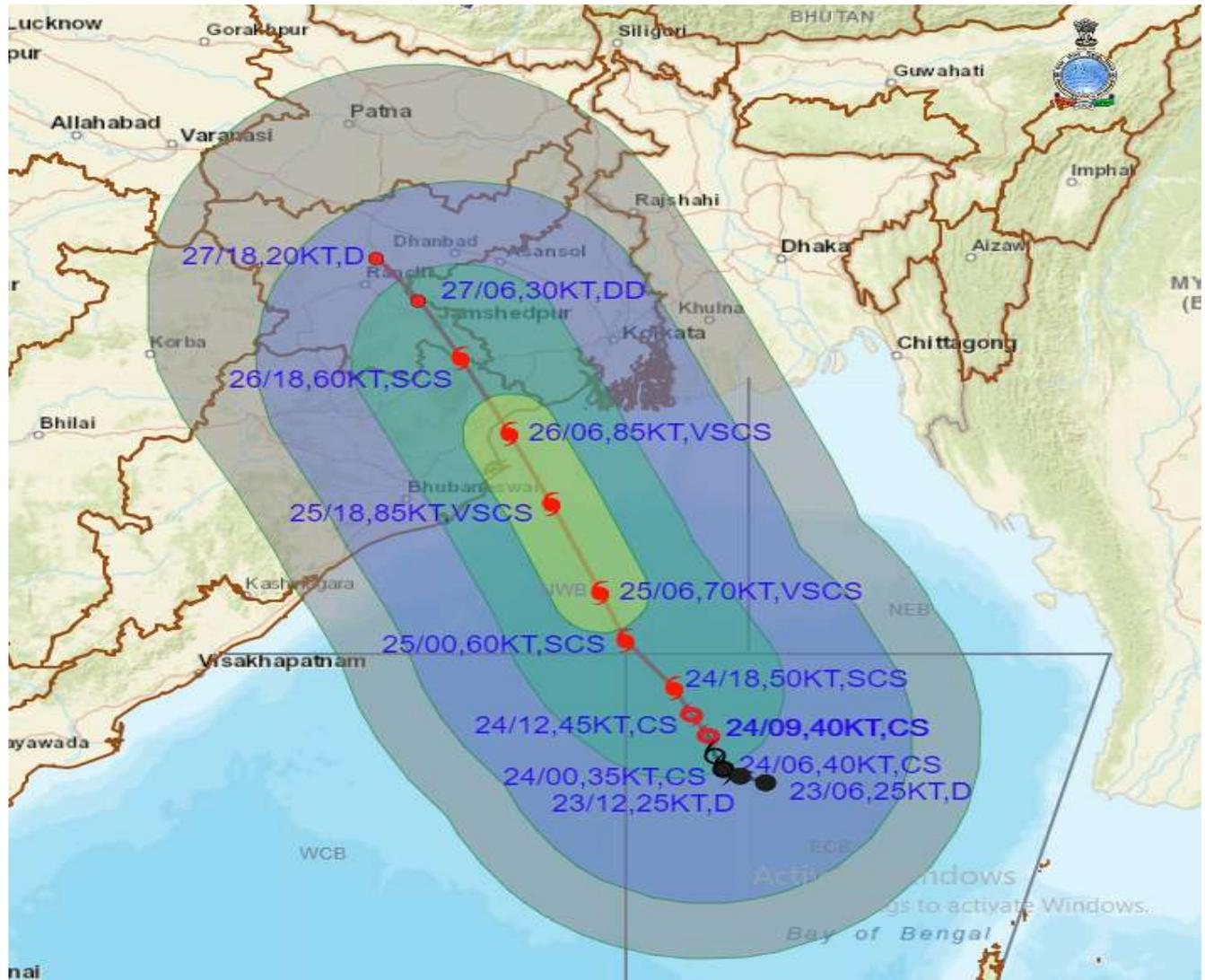
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



## OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "YAAS" OVER EASTCENTRAL BAY OF BENGAL BASED ON 0900 UTC OF 24<sup>th</sup> MAY, 2021



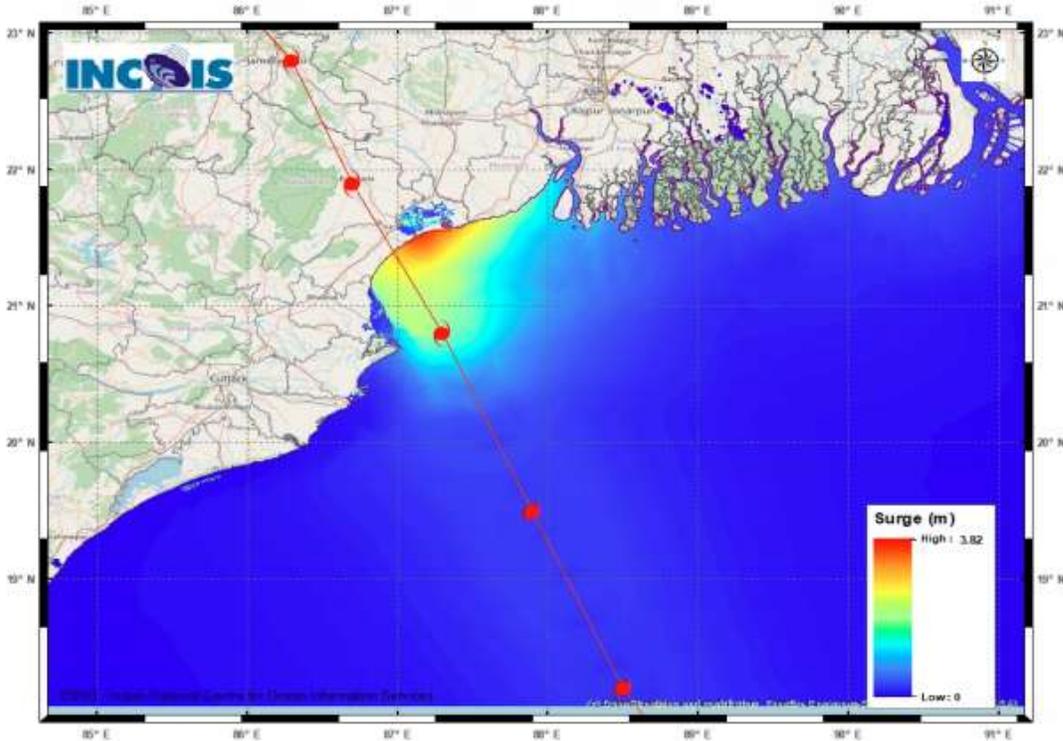
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ES: EXTREMELY SEVERE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

Storm Surge Forecast around the time of Landfall:

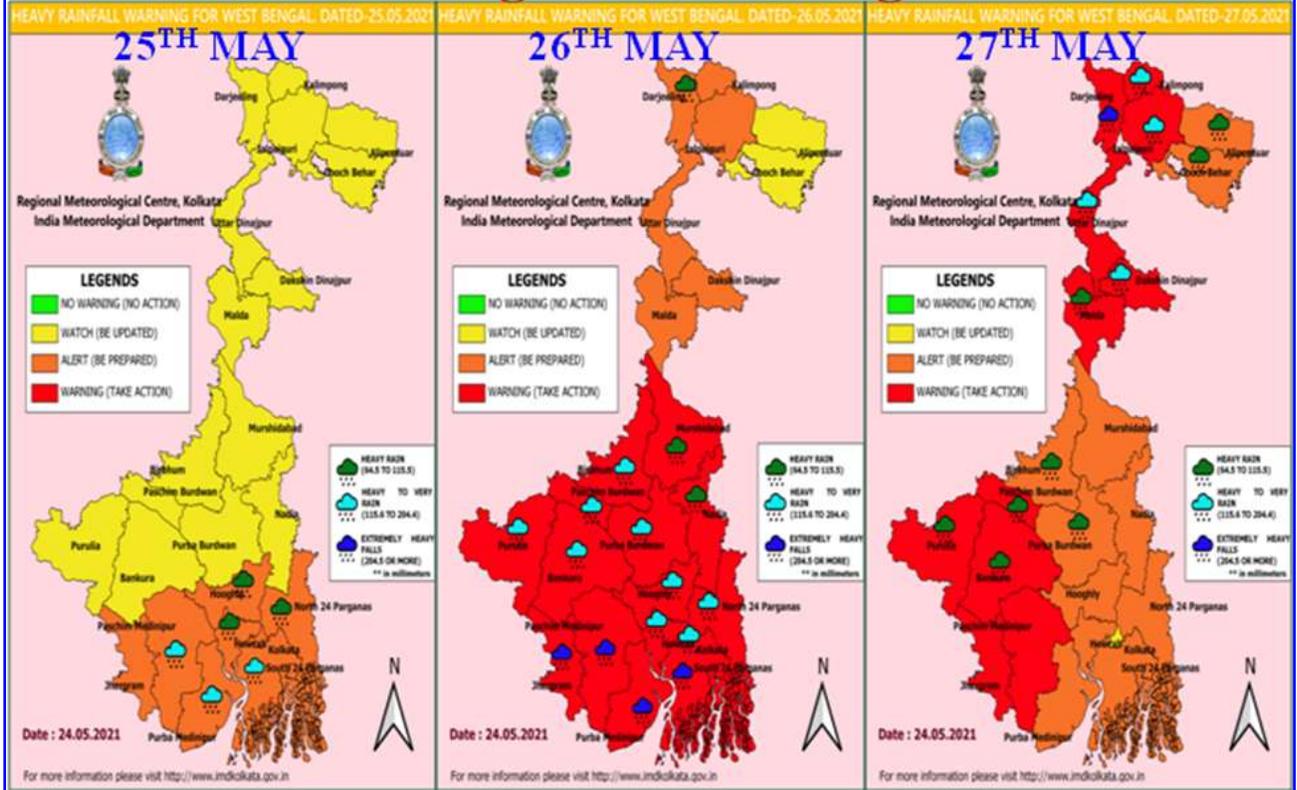


**STORM SURGE HEIGHT INFORMATION:**

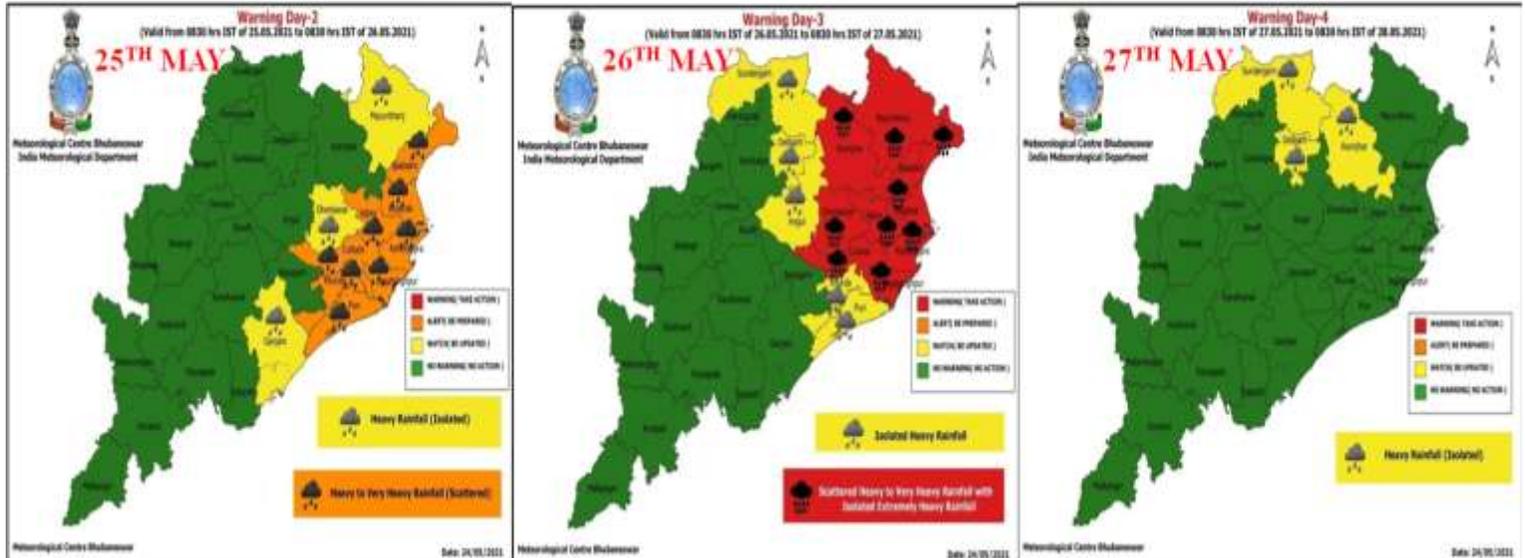
\* The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Baleshwar	Baleshwar	Odisha	Kumbhargari	2.1-3.8	Upto 2.33
Basirhat	North 24 Parganas	West Bengal	Amlamethi	0.5-0.9	Upto 0.37
Bhadrak	Bhadrak	Odisha	Mohanpur	0.9-2.1	Upto 7.02
Diamond Harbour	South 24 Parganas	West Bengal	Pashchim Bhabanipur	0.5-1.1	Upto 0.78
Kanthi	Purba Medinipur	West Bengal	Safar Chata	0.5-2.9	Upto 1.50
Kendraparha	Kendrapara	Odisha	Tikayat Nagar	0.5-1.5	Upto 2.64
Tamluk	Purba Medinipur	West Bengal	Jamitta	0.5-1.3	Upto 0.42
Uluberiya	Haora	West Bengal	Orphuli	0.5-0.8	Upto 0.44

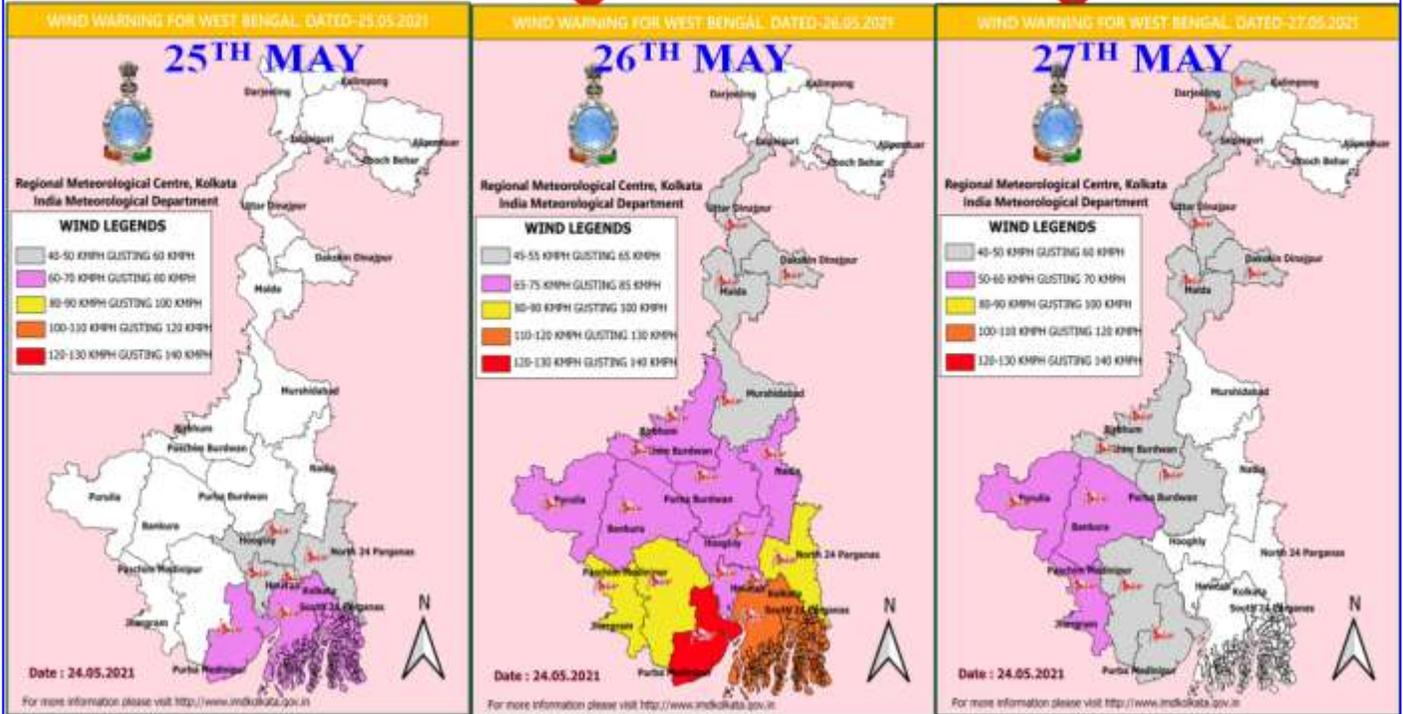
# Rainfall warning for West Bengal & Sikkim



# Rainfall forecast Odisha



# Wind warning for West Bengal



# Wind warning for Odisha

