



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

**BULLETIN NO. : 19 (BOB/02/2021)**

**TIME OF ISSUE: 0410 HOURS IST**

**DATED: 26.05.2021**

**FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)**

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**Sub: The Very Severe Cyclonic Storm 'Yaas' (pronounced as 'Yass') over northwest Bay of Bengal – (Cyclone Warning for Odisha – West Bengal coasts- Red Message)**

The **Very Severe Cyclonic Storm 'Yaas' (pronounced as 'Yass')** over northwest & Bay of Bengal moved north-northwestwards with a speed of about 12 kmph during past 6 hours, and lay centred at 0230 hrs IST of 26<sup>th</sup> May, 2021 over northwest Bay of Bengal near latitude 20.4°N and longitude 87.6°E, about 85 km east-southeast of Dhamra, 90 km east of Paradip (Odisha), 140 km south-southeast of Balasore (Odisha), 130 km south of Digha (West Bengal).

It is very likely to move north-northwestwards to reach near north Odisha coast close to Dhamra port by the early morning of Wednesday, the 26<sup>th</sup> May. It is very likely to cross north Odisha close to north of Dhamra and south of Balasore, during noon of 26<sup>th</sup> May as a **Very Severe Cyclonic Storm**.

The Cyclone is being tracked by Doppler Weather RADAR at Paradip.

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
25.05.21/0230	20.4/87.6	130-140 gusting to 155	Very Severe Cyclonic Storm
26.05.21/0530	20.7/87.4	130-140 gusting to 155	Very Severe Cyclonic Storm
26.05.21/1130	21.2/86.9	130-140 gusting to 155	Very Severe Cyclonic Storm
26.05.21/1730	21.7/86.5	100-110 gusting to 120	Severe Cyclonic Storm
26.05.21/2330	22.3 /86.0	70-80 gusting to 90	Cyclonic Storm
27.05.21/1130	23.4/85.1	30-40 gusting to 50	Depression

### **Warnings:**

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

**Odisha:** Light to moderate rainfall at many places with heavy to very heavy rainfall and **extremely heavy rainfall ( $\geq 20$  cm)** at isolated places in Jagatsinghpur, Kendrapara, Jajpur, Bhadrak, Balasore, Mayurbhanj, Cuttack, Dhenkanal, Keonjhar and heavy falls at isolated places in Puri, Khurda, Angul, Deogarh, Sundergarh on 26<sup>th</sup> May and heavy falls at isolated places in north interior Odisha on 27<sup>th</sup> May.

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

**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 rainfall at isolated places on 26<sup>th</sup> May.

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

- Gale winds speed reaching 130-140 kmph gusting to 155 kmph likely to prevail over major parts of northwest Bay of Bengal and along and off north Odisha coast till 26<sup>th</sup> May noon and decrease thereafter.
- Gale wind speed reaching 70-80 kmph gusting 90 kmph is prevailing along and off north Odisha coast and adjoin West Bengal coast including Jagatsinghpur, Kendrapara, Puri, Bhadrak, Balasore of Odisha and east Medinipur and south 24 Parganas districts of West Bengal . Squally wind speed reaching 50-60 kmph gusting 70 kmph would prevail over Ganjam, Khurda, Cuttack, Jajpur & Mayurbhanj Districts of Odisha and Howrah, Hooghly, north 24 Parganas Districts of West Bengal till 26<sup>th</sup> noon.
- It would further increase becoming gale wind speed 130-140 kmph gusting to 155 kmph along & off north Odisha and adjoining West Bengal coasts including Jagatsinghpur, Kendrapara, Bhadrak, from early morning of 26<sup>th</sup> May and will extend to Balasore district of Odisha from the forenoon of 26<sup>th</sup> May, 100-110 kmph gusting to 120 kmph over Mayurbhanj

district of Odisha from forenoon of 26<sup>th</sup> May. Gale wind speed reaching 60-80 kmph gusting to 90 kmph would prevail over Puri, Cuttack, Khurda, Jajpur and Nayagarh, Dhenkanal and Keonjhar districts of Odisha during same period. The wind speed reaching 55-65 kmph gusting to 75 kmph would prevail along and off Ganjam and remaining interior districts of north Odisha and Bankura, Purulia, Howrah, Hooghly, Nadia & Burdhaman districts of West Bengal during the same period.

- 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.
- 40-50 kmph gusting 60 kmph is very likely to prevail over south Jharkhand from 26<sup>th</sup> forenoon and increase gradually becoming 60-70 kmph gusting to 80 kmph over southeast Jharkhand and 40-50 kmph gusting to 60 kmph over southwest Jharkhand during 26<sup>th</sup> night to 27<sup>th</sup> forenoon.

### **(iii) Sea condition**

- Sea condition is Phenomenal over northwest Bay of Bengal along & off Odisha–West Bengal–Bangladesh coasts and High to very High over adjoining westcentral Bay of Bengal and rough to very rough along & off north Andhra Pradesh coasts till 26<sup>th</sup> Afternoon.

### **(iv) Fishermen Warning**

- The fishermen are advised not to venture into central Bay of Bengal till 26<sup>th</sup> May afternoon and into north Bay of Bengal and along & off north Odisha–West Bengal–Bangladesh coasts till 27<sup>th</sup> May morning.

### **(v) Storm surge warning.**

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

### **Damage Expected for coastal districts of North Odisha, West Bengal and adjoining interior districts of these states:**

- ❖ Total destruction of thatched houses/ extensive damage to kutcha houses. Some damage to pucca houses.
- ❖ Potential threat from flying objects.
- ❖ Bending/ uprooting of power and communication poles.
- ❖ Major damage to Kutcha and Pucca roads.
- ❖ Flooding of escape routes.
- ❖ Disruption of railways, overhead power lines and signalling systems.
- ❖ Widespread damage to standing crops, plantations, orchards, falling of green coconuts and tearing of palm fronds.
- ❖ Blowing down of bushy trees like mango.
- ❖ Small boats, country crafts may get detached from moorings.
- ❖ Visibility severely affected

### **Action Suggested for coastal districts of North Odisha, West Bengal and adjoining interior districts of these states:**

- Suspension of fishing operation and movement of ships in disturbed areas.

- Ports along the east coast of India may take necessary pre-cautions.
- Naval base operations may maintain necessary pre-cautions
- Tourism activities may be restricted over these areas.
- Mobilise evacuation from coastal areas of West Bengal & North Odisha.
- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.
- Preparatory action before the cyclones

**Post landfall outlook for north interior districts of Odisha and interior districts of Gangetic West Bengal adjoining Odisha:**

After the landfall the system is very likely to move northwestwards across interior districts of Odisha and weaken gradually. It is likely to maintain the intensity of Cyclonic Storm till the early morning of 27<sup>th</sup> May and thereafter it will weaken gradually into a Depression over Jharkhand.

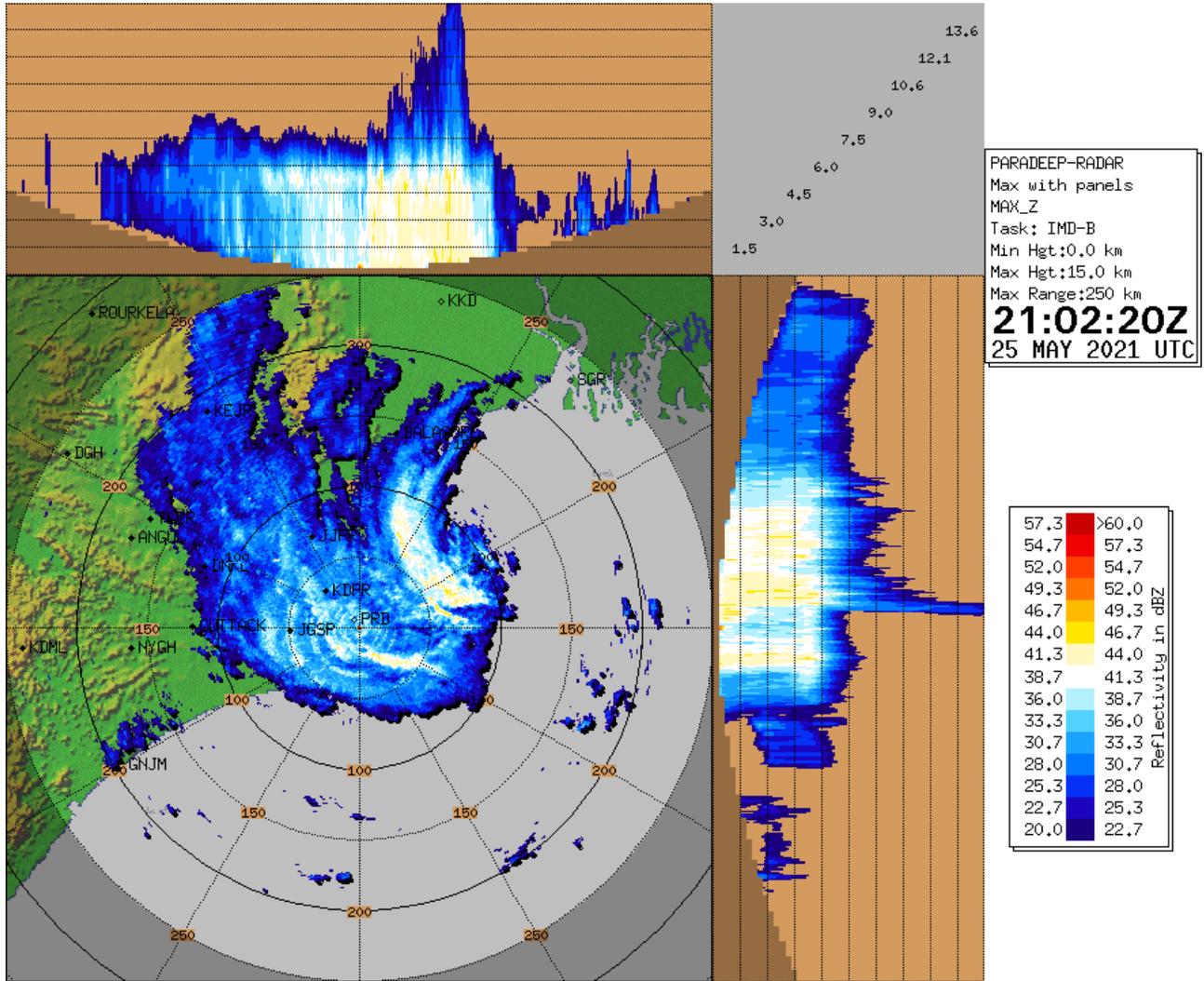
**Damage expected over north interior districts of Odisha and interior districts of Gangetic West Bengal adjoining Odisha:**

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Minor damage to power and communication lines.
- Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- Breaking of tree branches, uprooting of trees. Damage to banana and papaya trees. Dead limbs blown from trees.
- Major damage to coastal crops.

*The next bulletin will be issued at 0830 hrs IST of today, the 26<sup>th</sup> May, 2021.*

**(Ananda Kumar Das)  
Scientist-E, RSMC, New Delhi**

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



Latest imagery from Doppler Weather RADAR Paradip

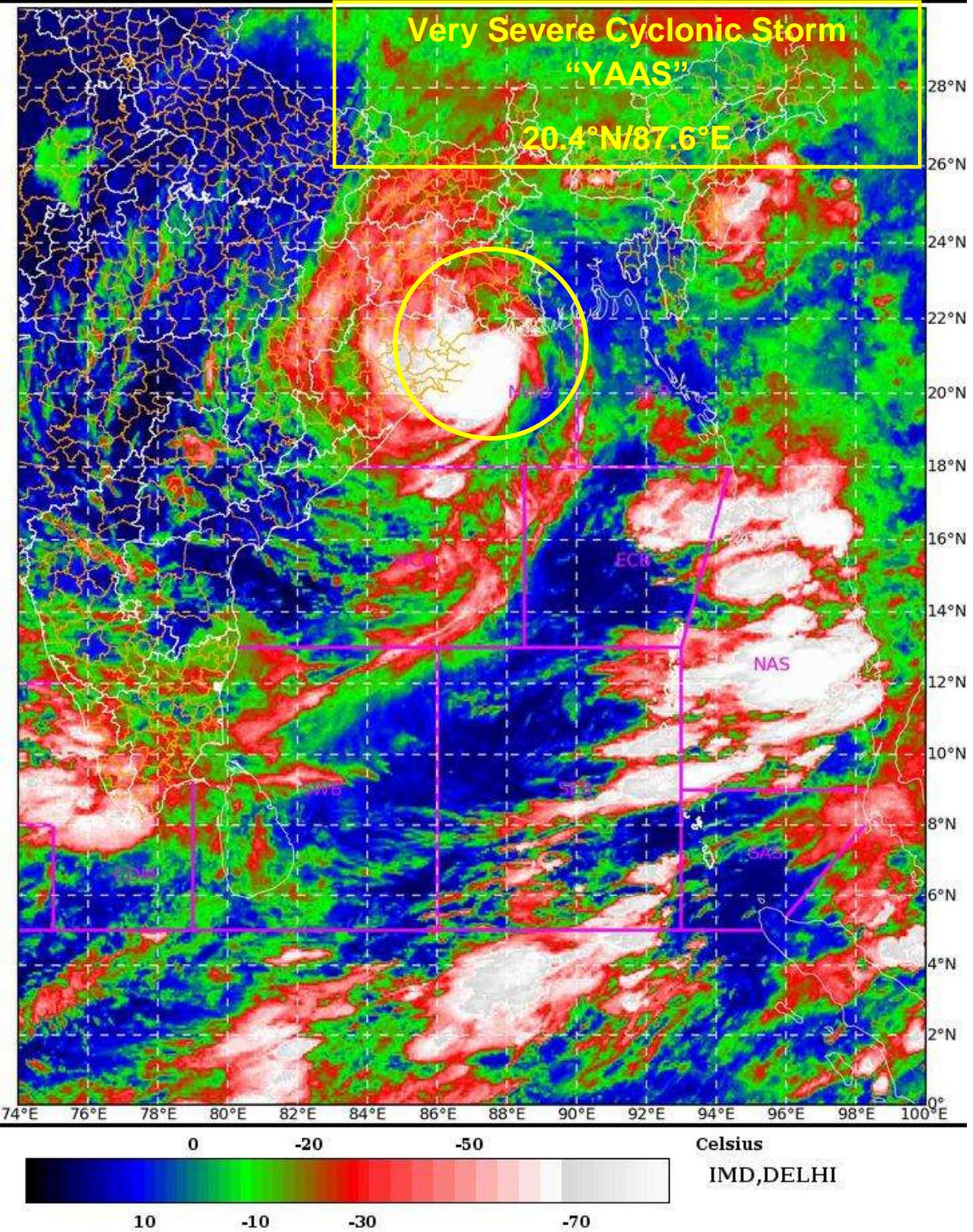
SAT : INSAT-3D IMG

25-05-2021/(2130 to 2156) GMT

IMG\_TIR1\_TEMP 10.8 um

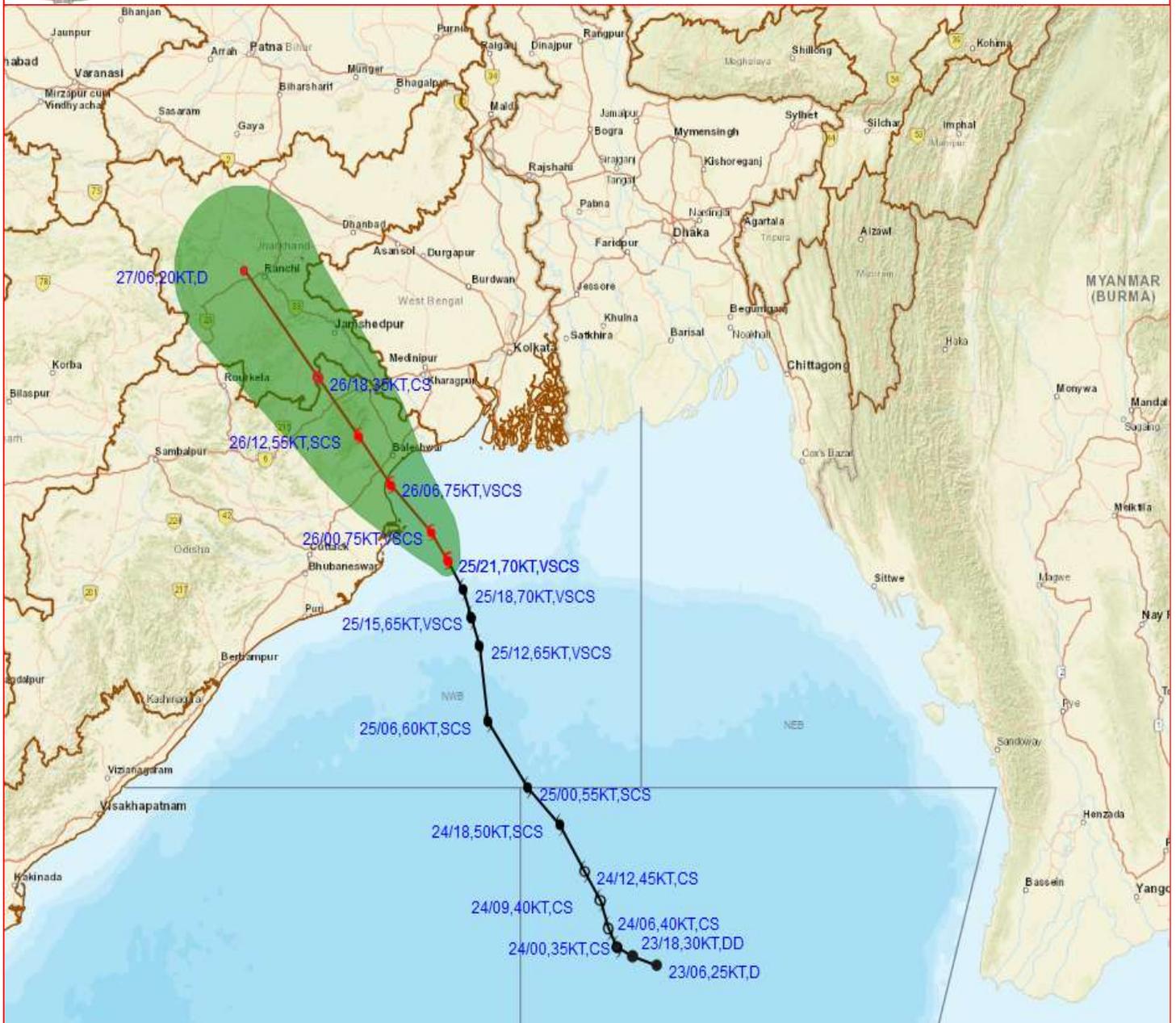
26-05-2021/(0300 to 0326) IST

L1C Mercator





# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "YAAS" OVER NORTHWEST BAY OF BENGAL BASED ON 2100 UTC OF 25th MAY, 2021

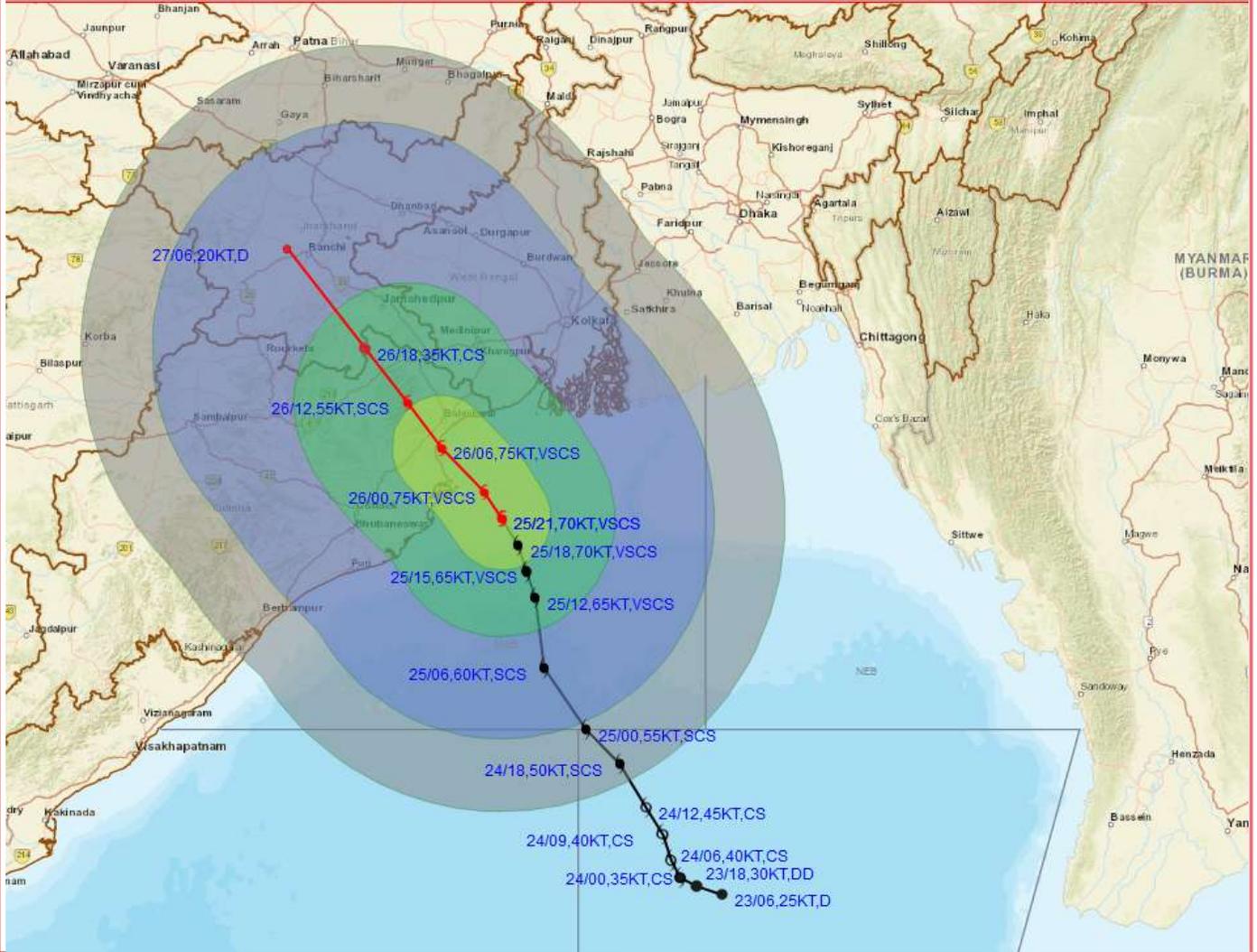


**DATE/TIME IN UTC**  
**IST=UTC + 0530**  
**L: LOW PRESSURE AREA**  
**WML: WELL MARKED LOW PRESSURE AREA**  
**D: DEPRESSION (17-27 KT)**  
**DD: DEEP DEPRESSION (28-33 KT)**  
**CS: CYCLONIC STORM (34-47 KT)**  
**SCS: SEVERE CYCLONIC STORM (48-63KT)**  
**VSCS: VERY SEVERE CYCLONIC STORM (64-89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

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



# OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "YAAS" OVER NORTHWEST BAY OF BENGAL BASED ON 2100 UTC OF 25<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)

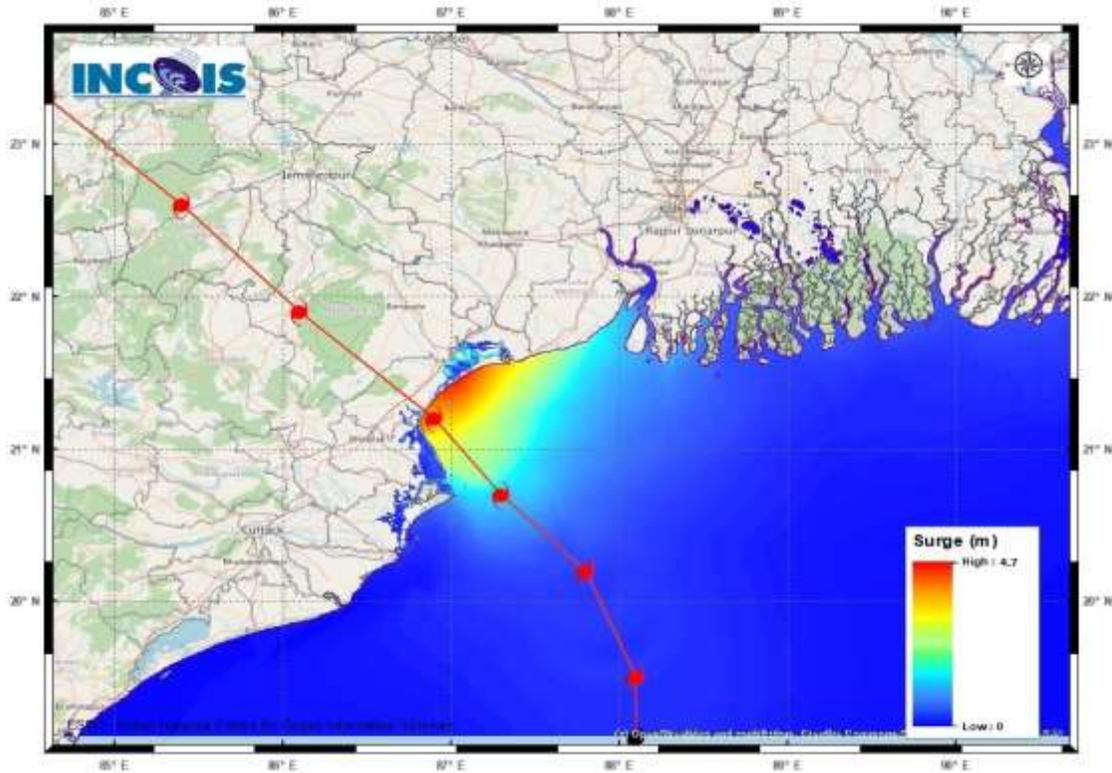
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- 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

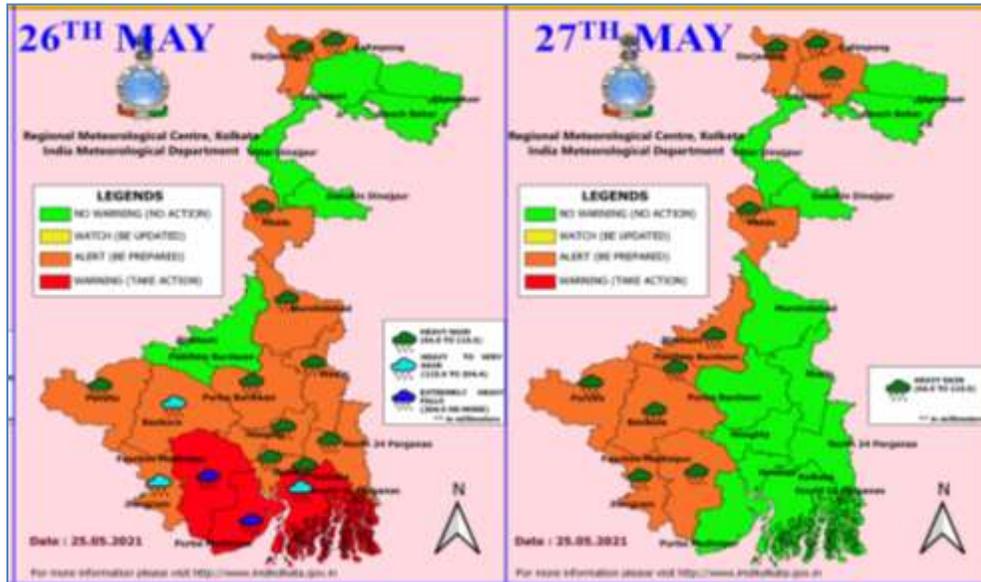
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

Storm Surge Forecast around the time of Landfall:

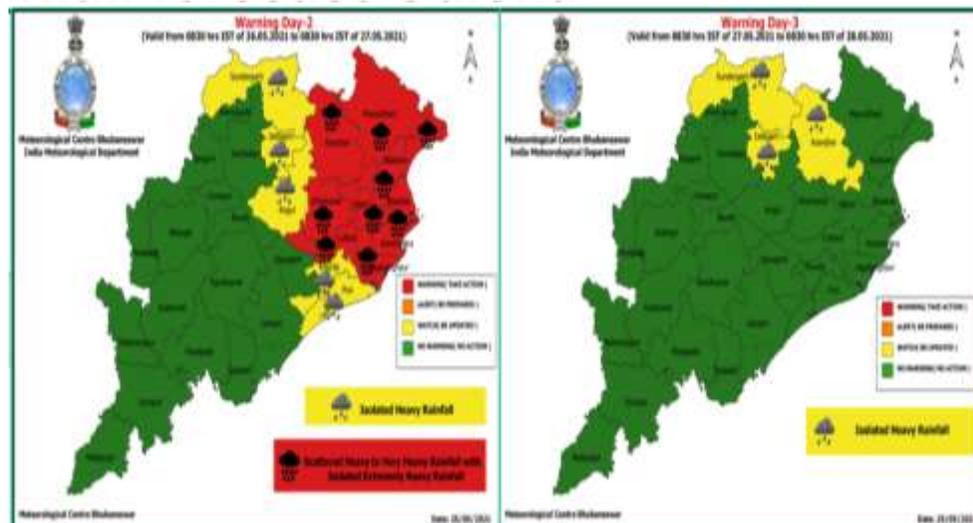


MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Baleswar	Baleswar	Odisha	Kumbhigari	2.2-4.7	Upto 3.53
Bhadrak	Bhadrak	Odisha	Mohanpur	1.5-3.9	Upto 9.00
Jagatsinghpur	Jagatsinghapur	Odisha	Musadia	0.3-0.5	Upto 0.28
Kendraparha	Kendrapara	Odisha	Tikayat Nagar	0.2-1.7	Upto 5.47
Kanthi	Purba Medinipur	West Bengal	Safar Chata	0.5-2.9	Upto 1.50
Diamond Harbour	South 24 Parganas	West Bengal	Chaklokath	0.2-1.2	Upto 0.78
Basirhat	North 24 Parganas	West Bengal	Amlamethi	0.3-1.0	Upto 0.37
Tamluk	Purba Medinipur	West Bengal	Jamitta	0.3-1.3	Upto 0.42
Uluberiya	Haora	West Bengal	Denanchar OrphuliChar	0.3-0.5	Upto 0.42

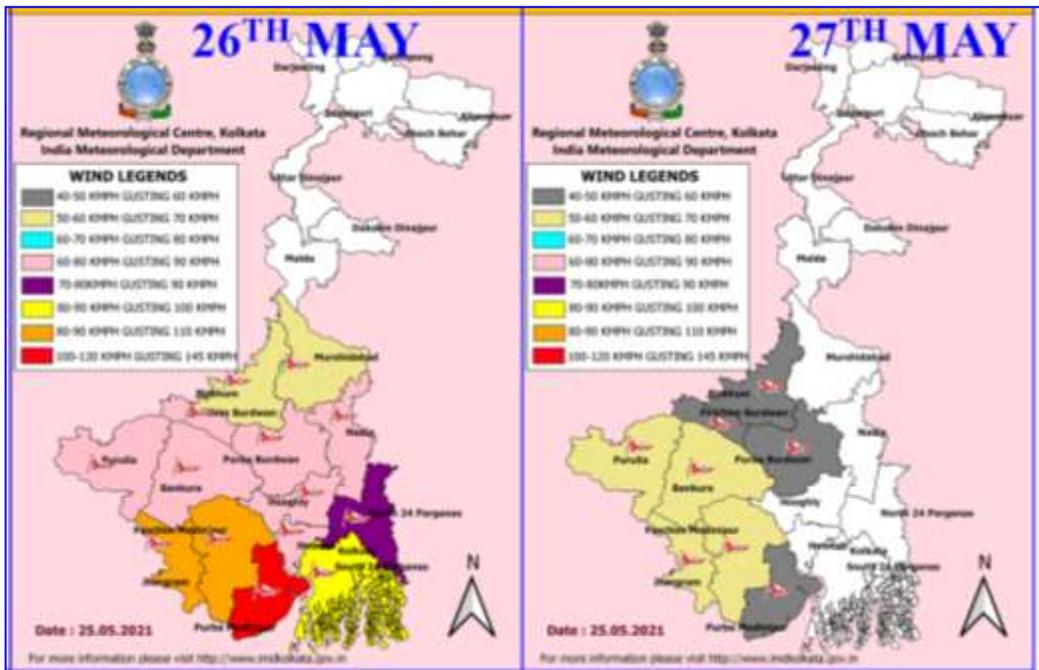
## RAINFALL WARNING FOR WEST BENGAL



## RAINFALL WARNING FOR ODISHA



## WIND WARNING FOR WEST BENGAL



## WIND WARNING FOR ODISHA

