



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

**BULLETIN NO. : 04 (BOB/02/2021)**

**TIME OF ISSUE: 0830 HOURS IST**

**DATED: 24.05.2021**

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

The **Deep Depression** over Eastcentral Bay of Bengal remained practically stationary during past 6 hours, intensified into **Cyclonic Storm 'Yaas' (pronounced as 'Yass')** and lay centred at 0530 hrs IST of today, the 24<sup>th</sup> May, 2021 over Eastcentral Bay of Bengal near latitude 16.3°N and longitude 89.7°E, about 600 km north-northwest of Port Blair (Andaman Islands), 540 km south-southeast of Paradip (Odisha), 650 km south-southeast of Balasore (Odisha) and 630 km south-southeast of Digha (West Bengal).

It is very likely to move slowly north-northwestwards, intensify further into a **Severe Cyclonic Storm** during next 24 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 islands around 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
24.05.21/0530	16.3/89.7	60-70 gusting to 80	Cyclonic Storm
24.05.21/1130	16.5/89.6	70-80 gusting to 90	Cyclonic Storm
24.05.21/1730	16.8/89.5	90-100 gusting to 110	Severe Cyclonic Storm
24.05.21/2330	17.3/89.1	110-120 gusting to 130	Severe Cyclonic Storm
25.05.21/0530	18.2/88.5	130-140 gusting to 155	Very Severe Cyclonic Storm
25.05.21/1730	19.5/87.9	145-155 gusting to 170	Very Severe Cyclonic Storm
26.05.21/0530	20.8/87.3	155-165 gusting to 180	Very Severe Cyclonic Storm
26.05.21/1730	21.9/86.7	120-130 gusting to 145	Very Severe Cyclonic Storm
27.05.21/0530	22.8/86.3	55-65 gusting to 75	Deep Depression
27.05.21/1730	23.4/85.8	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> & 26<sup>th</sup> May.

•**Odisha:** Light to moderate rainfall at many places with heavy falls at isolated places over south Coastal Odisha on 24<sup>th</sup>, heavy to very heavy rainfall in the north coastal districts on 25<sup>th</sup>, heavy to very heavy rains at a few places with extremely heavy falls in Balasore, Bhadrak, Kendrapara, Mayurbhanj and heavy to very heavy falls at a few places in Jagatsinghpur, Cuttack, Jajpur, Keonjhar on 26<sup>th</sup> May and heavy to very heavy rainfall at isolated places in north interior Odisha on 27<sup>th</sup>. Isolated heavy to very heavy rainfall is likely over south coastal districts of Odisha during 25<sup>th</sup> and 26<sup>th</sup> May.

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

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

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

**(ii) Wind warning:**

- Gale winds speed reaching 60–70 kmph gusting to 80 kmph prevailing over Westcentral adjoining Eastcentral Bay of Bengal. It is very likely to increase further becoming Gale wind speed reaching 80 to 90 gusting to 100 kmph over major parts of central Bay of Bengal by 24th evening and would decrease gradually thereafter.
- Squally wind speed reaching 40-50 kmph gusting 60 kmph is very likely to prevail over North Bay of Bengal and adjoining westcentral Bay of Bengal along and off north Andhra Pradesh-Odisha–West Bengal–Bangladesh coasts from 24th afternoon. It would increase gradually becoming 50-60 kmph gusting to 70 kmph from 25th evening. It would further increase becoming gale wind speed 60-70 kmph gusting to 80 kmph from 26th early hours over northwest Bay of Bengal and along and off West Bengal & north Odisha and Bangladesh coasts. It would gradually increase further becoming 90-100 gusting to 110 kmph from 26th morning and increase thereafter becoming 155-165 kmph gusting to 180 kmph at the time of landfall.
- 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 110-120 kmph gusting to 130 kmph during 26<sup>th</sup> evening / night.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph likely over north interior districts of Odisha, interior districts of Gangetic West Bengal during 26<sup>th</sup> evening to 27<sup>th</sup> morning.
- 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.

**(iii) Sea condition**

- Sea conditions are 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 24th – 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.

*The next bulletin will be issued at 1130 hrs IST of today, the 24<sup>th</sup> May, 2021.*

**(Sunitha Devi S)**  
**Scientist-F, RSMC, New Delhi**

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

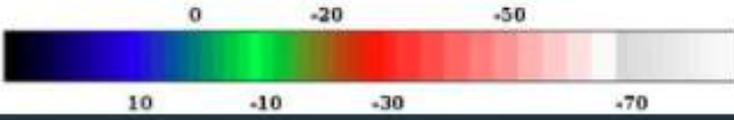
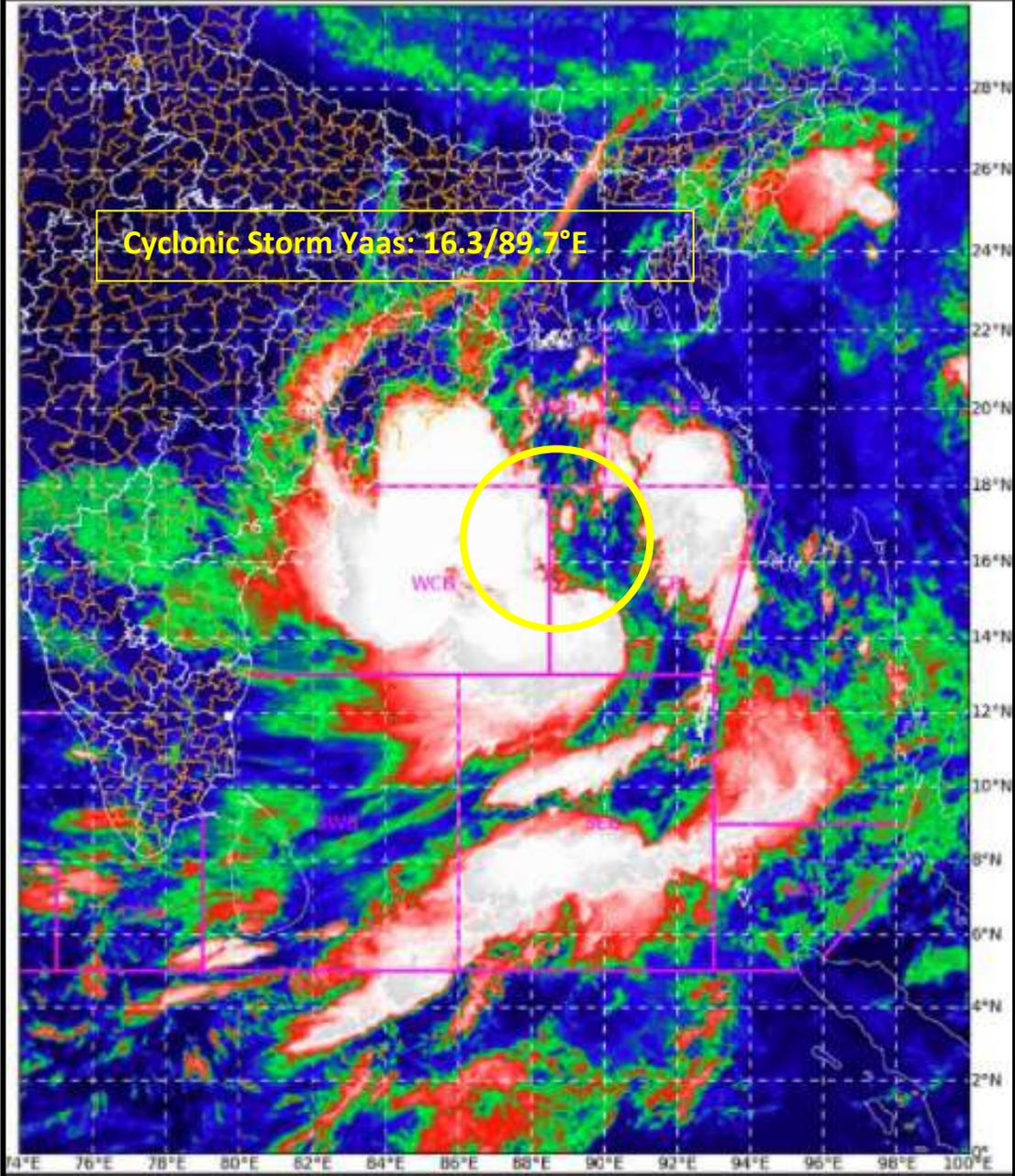
SAT : INSAT-3D IMG

24-05-2021/(0100 to 0127) GMT

IMG\_TIR1\_TEMP 10.8 um

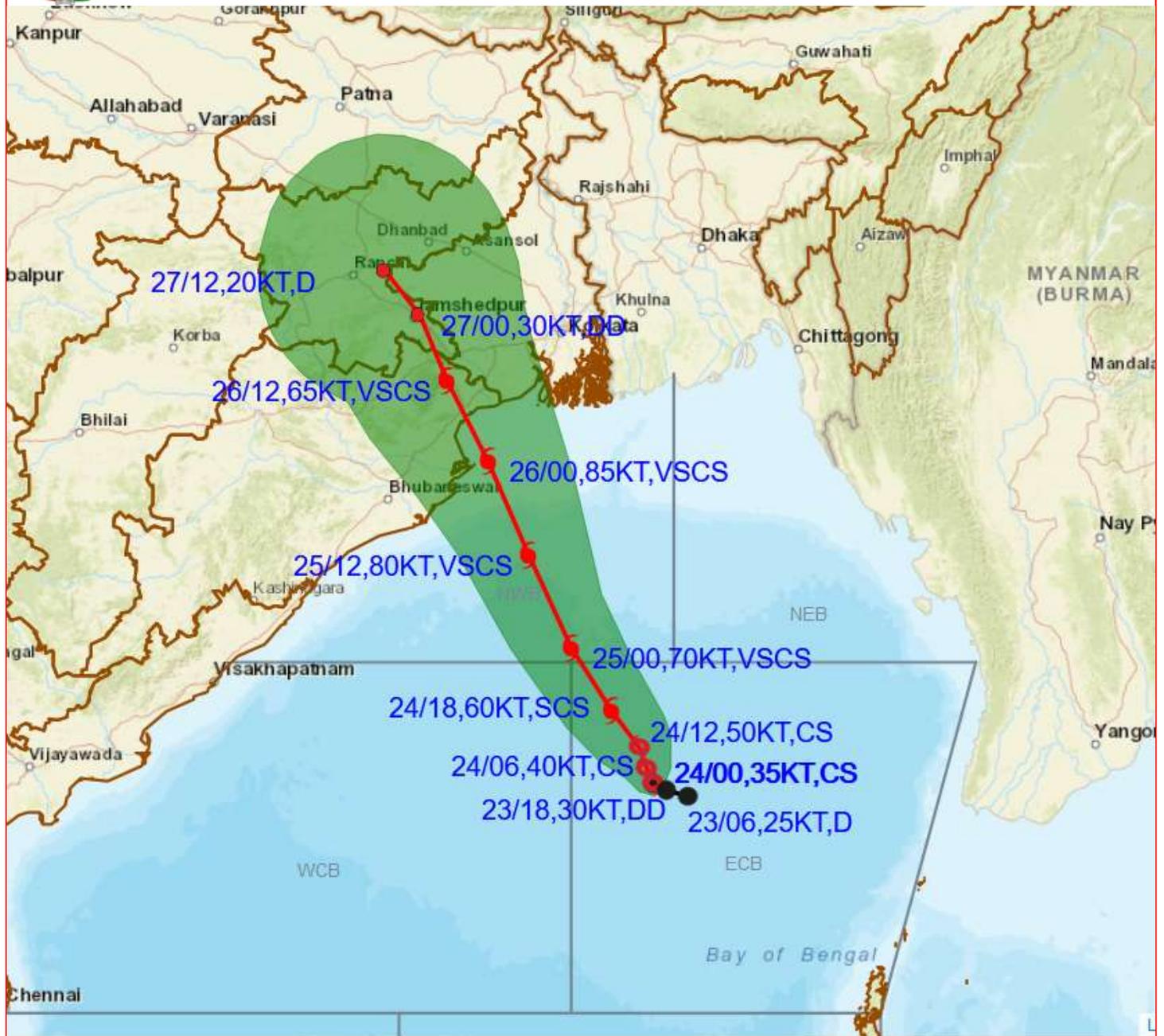
24-05-2021/(0630 to 0657) IST

L1C Mercator



Celsius  
IMD, DELHI

**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "YAAS" OVER EASTCENTRAL BAY OF BENGAL BASED ON 0000 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 (≥ 120 KT)

● LESS THAN 34 KT

⊙ 34-47 KT

⊙ ≥ 48 KT

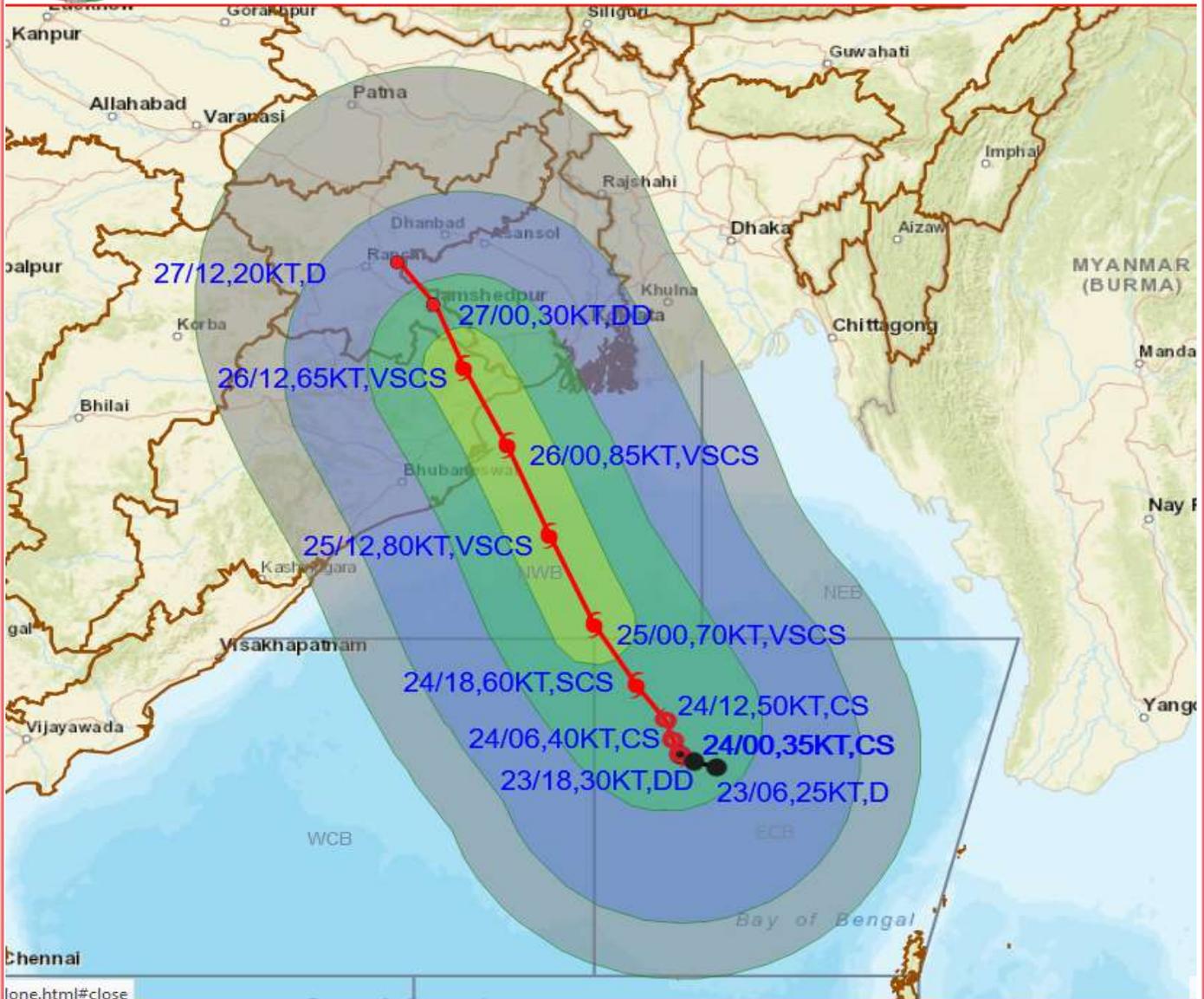
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



## OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "YAAS" OVER EASTCENTRAL BAY OF BENGAL BASED ON 0000 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)

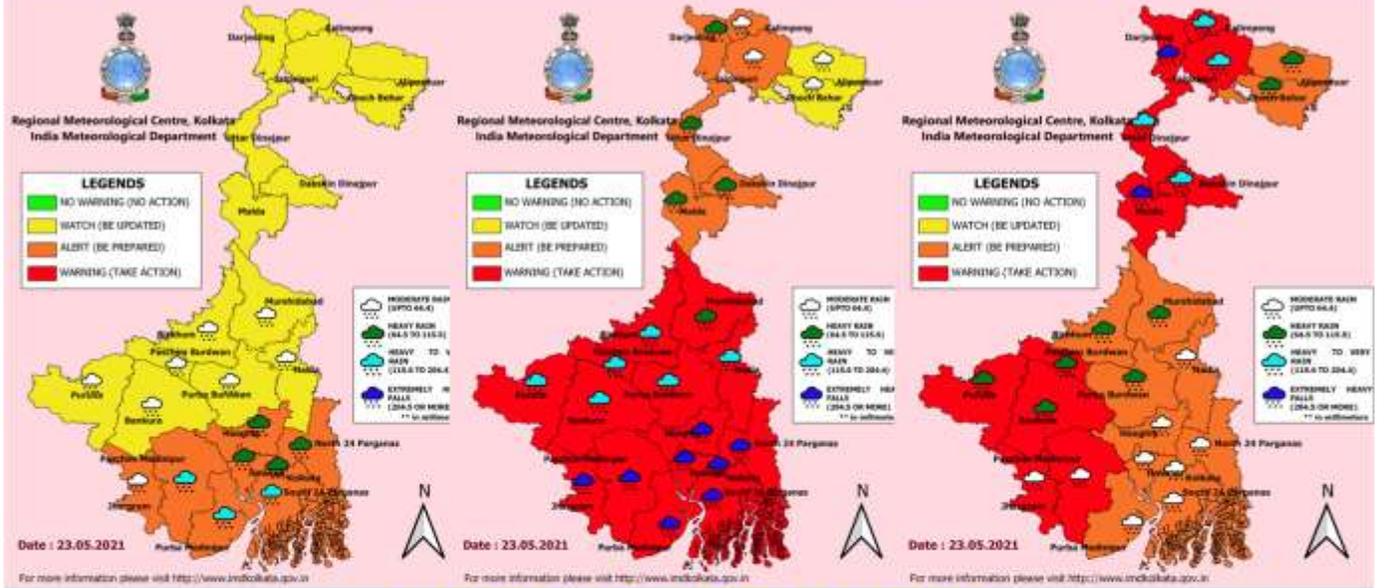
● LESS THAN 34 KT  
○ 34-47 KT  
●  $\geq$  48 KT  
— OBSERVED TRACK  
— FORECAST TRACK  
▲ CONE OF UNCERTAINTY  
AREA OF MAXIMUM SUSTAINED WIND SPEED:  
■ 28-33 KT (52-61 KMPH)  
■ 34-49 KT (62-91 KMPH)  
■ 50-63 KT (92-117 KMPH)  
■  $\geq$  64 KT ( $\geq$ 118 KMPH)

### IMPACT OVER THE SEA

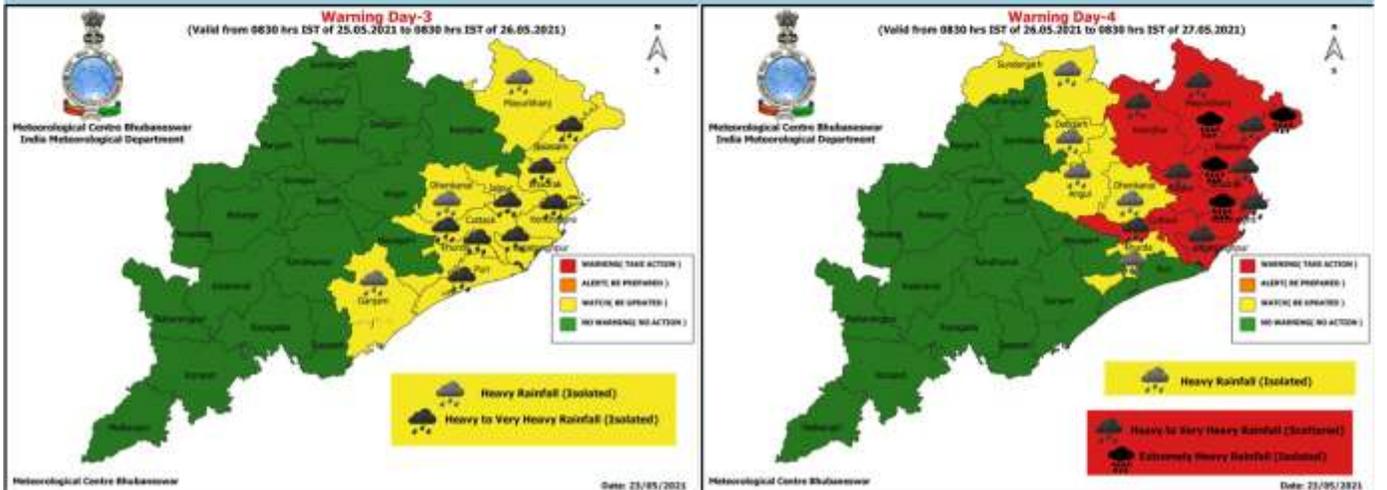
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
$\geq$ 64 ( $\geq$ 118)	Phenomenal	Total suspension of fishing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

# Rainfall warning for West Bengal & Sikkim

HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED 23.05.2021 | HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED 26.05.2021 | HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED 27.05.2021



# Rainfall forecast Odisha

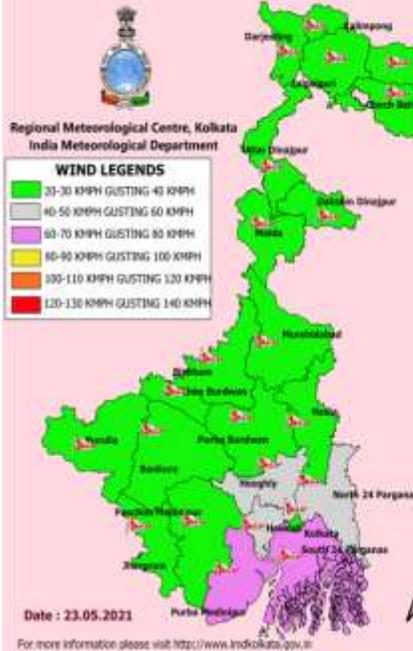


# Wind warning for West Bengal & Sikkim

WIND WARNING FOR WEST BENGAL DATED-23.05.21

WIND WARNING FOR WEST BENGAL DATED-26.05.2021

HEAVY RAINFALL WARNING FOR WEST BENGAL DATED-27.05.2021



# Wind warning for Odisha

