

SPECIAL BULLETIN -10

DATE: 24.05.2021
TIME: 1645 HRS IST

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 04 kmph during past 6 hours, and lay centred at 1130 hrs IST of today, the 24th May, 2021 over Eastcentral Bay of Bengal near latitude 16.5°N and longitude 89.6°E, about 630 km north-northwest of Port Blair (Andaman Islands), 520 km south-southeast of Paradip (Odisha), 620 km south-southeast of Balasore (Odisha) and 610 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 26th May early morning.

It is very likely to cross north Odisha-West Bengal coasts between Paradip and Sagar islands around Balasore, during noon of 26th 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
24.05.21/1130	16.5/89.6	70-80 gusting to 90	CYCLONIC STORM
24.05.21/1730	16.8/89.5	80-90 gusting to 100	CYCLONIC STORM
24.05.21/2330	17.3/89.1	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	155-165 gusting to 185	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	105-115 gusting to 125	VERY SEVERE CYCLONIC STORM
26.05.21/2330	22.3/86.5	55-65 gusting to 75	SEVERE CYCLONIC STORM
27.05.21/1130	23.1/86.0	35-45 gusting to 55	DEEP DEPRESSION
27.05.21/2330	23.7/85.5	35-45 gusting to 55	DEPRESSION

(i) Rainfall:

Days	Forecast	Heavy Rainfall Warning
Day-1: Valid upto 0830 Hrs IST of 25.05.21	Light to moderate rain or thundershower very likely to occur at many places over the districts of coastal Odisha, Keonjhar, Mayurbhanj, Dhenkanal and at isolated places over the districts interior Odisha.	Yellow Warning (Be updated) Heavy rainfall very likely to occur at isolated places over the districts of Kendrapada, Jagatsinghpur, and Puri.
Day-2: Valid from 0830 Hrs IST of 25.05.21 to 0830 Hrs IST of 26.05.21	Light to moderate rain or thundershower very likely to occur at most places over the districts of coastal Odisha, at many places over the districts of north interior Odisha & at a few places over the districts of south interior Odisha.	Orange Warning (Be prepared) Heavy to very heavy rainfall very likely to occur at a few places over the districts of Balasore, Bhadrak, Jajpur, Kendrapada, Jagatsinghpur, Cuttack, Puri, Khurdha. Yellow Warning (Be updated) Heavy rainfall very likely to occur at isolated places over the districts of Mayurbhanj, Dhenkanal and Ganjam.
Day-3: Valid from 0830 Hrs IST of	Light to moderate rain or thundershower very likely to occur at most places over the districts of north Odisha, at a few	Red Warning (Take Action) Heavy to very heavy rainfall at a few places with isolated extremely heavy fall very likely to occur

26.05.21 to 0830 Hrs IST of 27.05.21.	over the districts of south Odisha	over the districts of Balasore, Bhadrak, Jajpur, Kendrapada, Jagatsinghpur, Cuttack, Mayurbhanj, Keonjhar and Dhenkanal, Yellow Warning (Be updated) Heavy rainfall very likely to occur at isolated places over the districts of Anugul, Deogarh, Khurdha, Puri and Sundergarh.
Day-4: Valid from 0830 Hrs IST of 27.05.21 to 0830 Hrs IST of 28.05.21	Light to moderate rain or thundershower very likely to occur at many places over the districts of north interior Odisha, at a few over the districts of north coastal Odisha and at one or two places over the districts of south Odisha.	Yellow Warning (Be updated) Heavy rainfall very likely to occur at isolated places over the districts of Sundergarh, Deogarh and Keonjhar.

(ii) Wind warning

- 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 25th 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 Odisha–West Bengal coasts. It would increase gradually becoming 60-80 kmph gusting to 90 kmph over Jagatsinghpur, Kendrapara, Bhadrak, Balasore & Puri districts of Odisha 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 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 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. Gale wind speed reaching 70-90 kmph gusting to 100 kmph would prevail over Puri, Cuttack, Khurda, Jajpur districts of Odisha 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 from 26th early hours. Squally wind speed reaching 50-60 kmph gusting to 70 kmph would prevail over Angul, Deogarh & Sundergarh districts of Odisha, during same period.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph over Kendrapara, Bhadrak, Balasore, Mayurbhanj, Keonjhar, Sundergarh & Deogarh districts of Odisha on 27th.

(iii) Sea condition

- Sea conditions are high to Very High over Westcentral& adjoining eastcentral Bay of Bengal. It is very likely to become gradually Very High to Phenomenal over northern parts of central Bay of Bengal, North Bay of Bengal and along & off Odisha–West Bengal coasts during 24th – 26th May.

(iv) Fishermen Warning

The fishermen are advised not to venture into deep sea area of central Bay of Bengal till 25th May and into North Bay of Bengal along & off Odisha coast till 27th May, 2021.

v)Port Warning:

Keep hoisted Local Warning Signal No. 4 (LW-4) at Paradip and Dhamra Ports and Local Cautionary Signal No. 3 (LC- 3) at Gopalpur and Puri Ports of Odisha.

(vi) Storm surge warning.

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

N.B: SPATIAL RAINFALL DISTRIBUTION: ISOLATED :=< 25%, A FEW: 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 > 7

Dr.H.R. Biswas,
Head & Scientist-E,
Met .Centre Bhubaneswar

To

1. CHIEF SECRETARY, GOVT OF ODISHA.
2. PRINCIPAL SECRETARY, REVENUE & DISASTER MANAGEMENT, GOVT. OF ODISHA.
3. PRINCIPAL SECRETARY, DEPT. OF AGRICULTURE, GOVT. OF ODISHA.
4. PRINCIPAL SECRETARY, DEPARTMENT OF WATER RESOURCES, GOVT. OF ODISHA.
5. SPECIAL RELIEF COMMISSIONER (SRC), GOVT. OF ODISHA BHUBANESWAR.
6. REVENUE SECRETARY, GOVT. OF ODISHA, BHUBANESWAR.
7. M.D., OSDMA, GOVT. OF ODISHA, BHUBANESWAR.

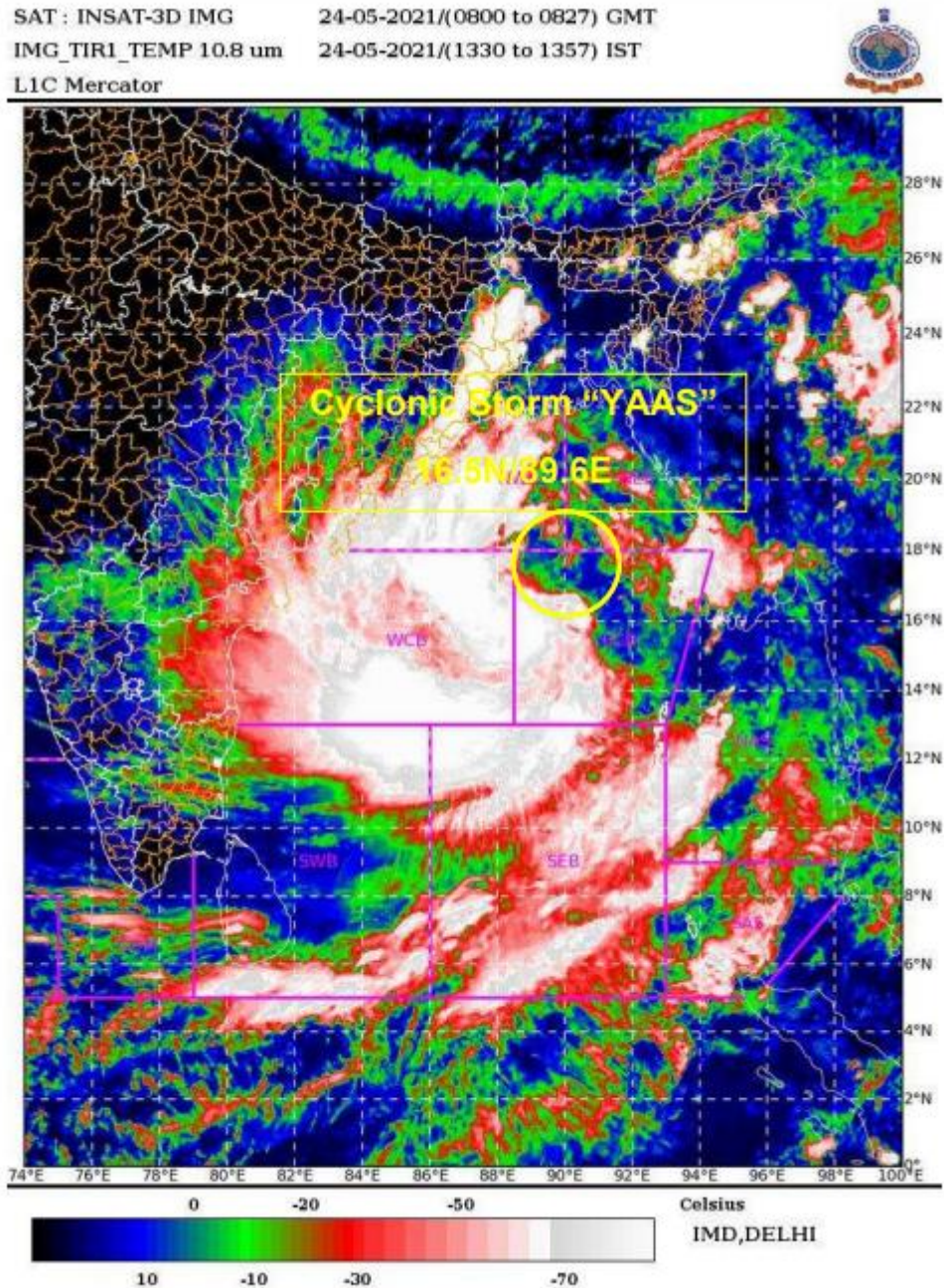
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पृथ्वीविज्ञानमंत्रालय
भारतमौसमविज्ञानविभाग
मौसमविज्ञानकेंद्र
भुवनेश्वर, ओडिशा-751020



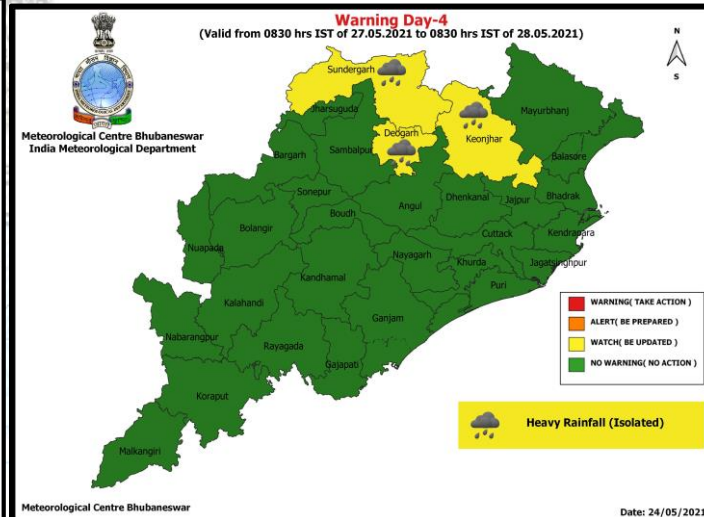
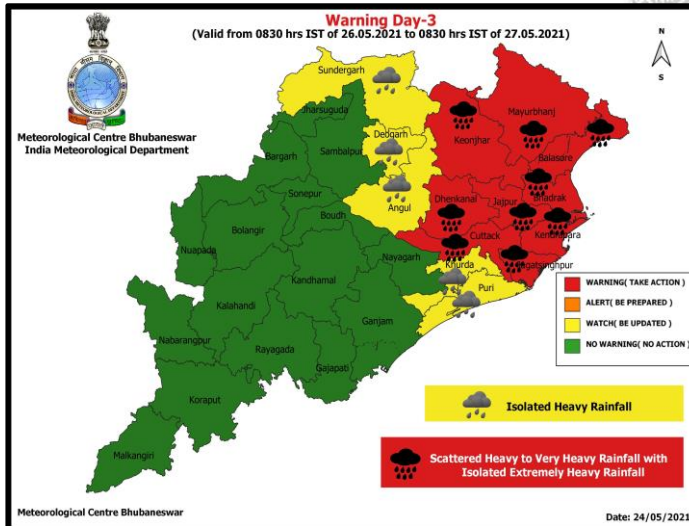
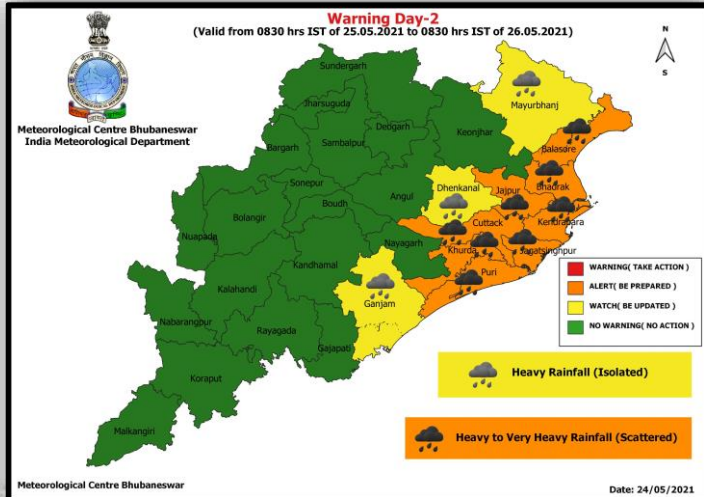
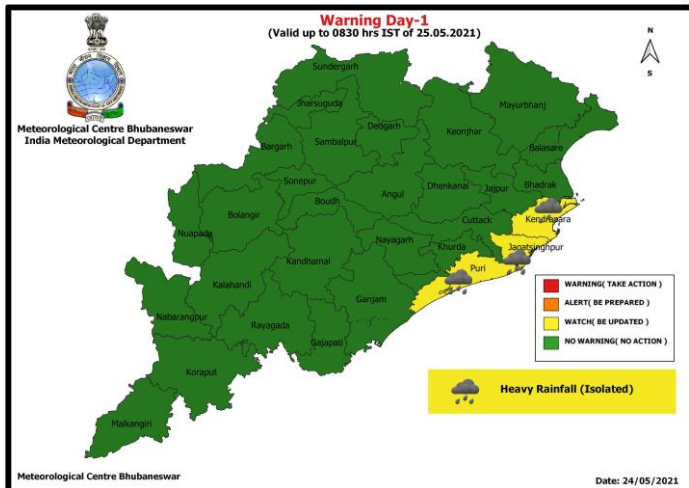
GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
INDIA METEOROLOGICAL DEPARTMENT
METEOROLOGICAL CENTRE
BHUBANESWAR, ODISHA-751020

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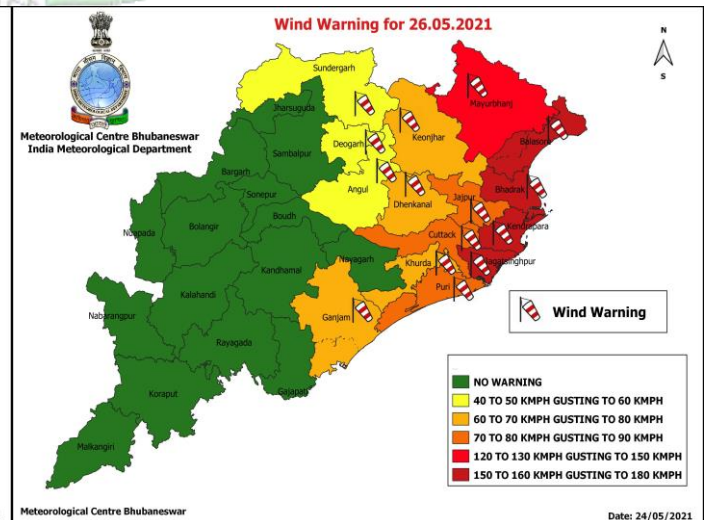
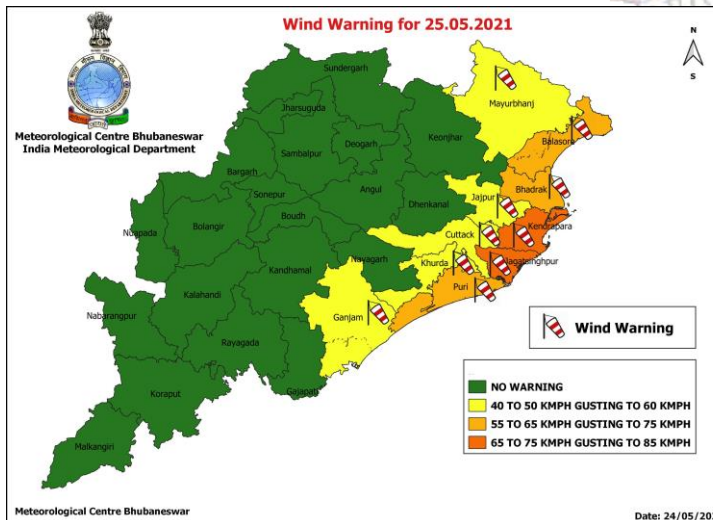
8. RDC, CENTRAL DIVISION/ SOUTHERN DIVISION/ NORTHERN DIVISION.
9. AIR CUTTACK / DOORDARSHAN.

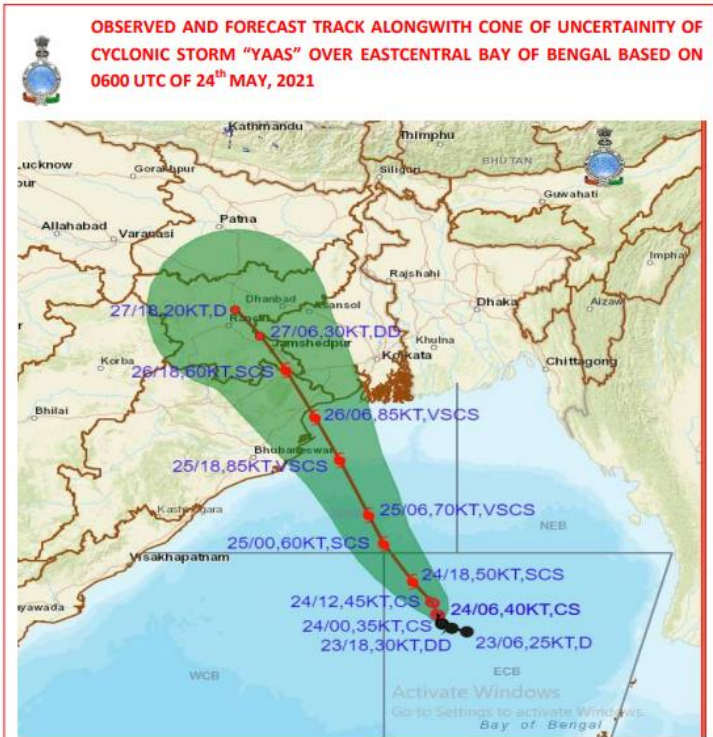
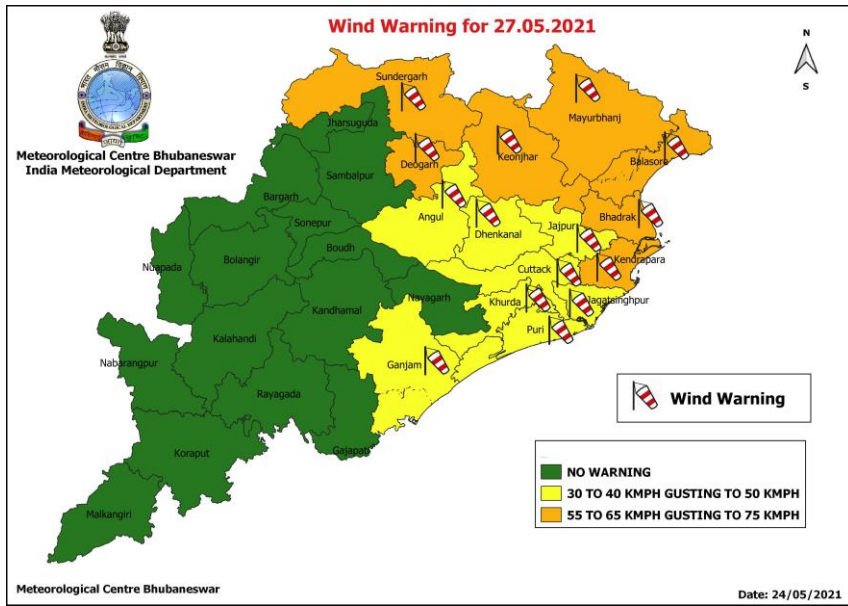


Rainfall Warning Maps for Day-1 to Day-4

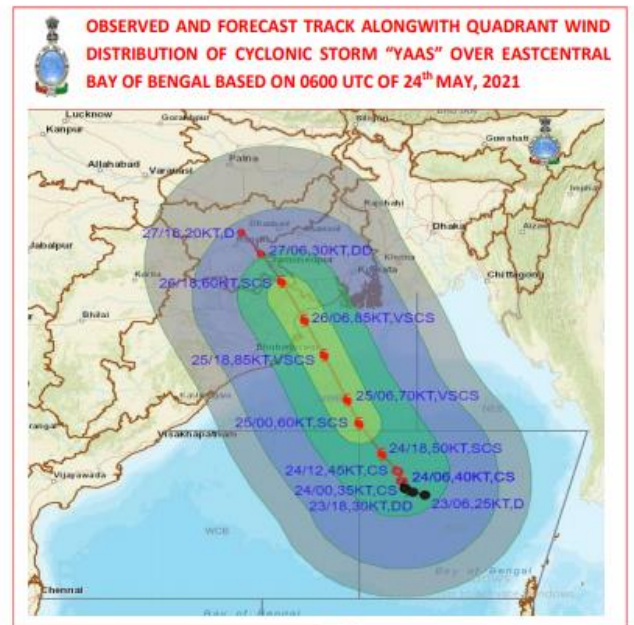


Wind warning for 25th to 27th May,2021





- 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



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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 (62-61 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 (62-61)	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 information

MANDAL/ TALUK	DISTRICT	NEAREST PLACE OF HABITATION	STORM SURGE(M)*	EXPECTED INUNDATION EXTENT(KM)
Balasure	Balasure	Kumbhargari	2.1-3.8	Upto 2.33
Bhadrak	Bhadrak	Mohanpur	0.9-2.1	Upto 7.02
Kendrapada	Kendrapada	Tikayat Nagar	0.5-1.5	Upto 2.64

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

