भारतसरकार पृथ्वीविज्ञानमंत्रालय भारतमौसमविज्ञानविभाग मौसमविज्ञानकेंद्र भुवनेश्वर, ओडिशा-751020



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

ଭାରତସରକାର ପୃଥିବୀବିଜ୍ଞାନମନ୍ତାଳୟ ଭାରତପାଣିପାଗବିଜ୍ଞାନବିଭାଗ ପାଣିପାଗବିଜ୍ଞାନକେନ୍ଦ୍ର ଭବନେଶ୍বର, ଓଡିଶା-୭୫ ୧ ୦ ୨ ୦

## **SPECIAL BULLETIN -14**

DATE: 25.05.2021 TIME: 0230 HRS IST

Sub: The Cyclonic Storm 'Yaas' (pronounced as 'Yass') over Eastcentral Bay of Bengal has intensified into a Severe Cyclonic Storm – (Cyclone Warning for Odisha – West Bengal coasts-Orange Message).

The **Cyclonic Storm 'Yaas' (pronounced as 'Yass')** over Eastcentral Bay of Bengal moved north-northwestwards with a speed of about 10 kmph during past 6 hours, intensified into a **Severe Cyclonic Storm** and lay centred at 2330 hrs IST of yesterday, the 24<sup>th</sup> May, 2021 over Eastcentral Bay of Bengal near latitude 17.6°N and longitude 89.0°E, about **390 km south-southeast of Paradip, 490 km south-southeast of Balasore**, 470 km south-southeast of Digha (West Bengal) and 500 kms south-southwest of Khepupara (Bangladesh).

It is very likely to move north-northwestwards, intensify further into a **Very Severe Cyclonic Storm** during next 12 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 26th May as a Very Severe Cyclonic Storm.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

Date/Time(IST)	Position (Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance	
24.05.21/2330	17.6/89.0	90-100 gusting to 110	SEVERE CYCLONIC STORM	
25.05.21/0530	18.2/88.7	100-110 gusting to 120	SEVERE CYCLONIC STORM	
25.05.21/1130	18.9/88.3	120-130 gusting to 145	VERY SEVERE CYCLONIC STORM	
25.05.21/1730	19.7/87.9	135-145 gusting to 160	VERY SEVERE CYCLONIC STORM	
25.05.21/2330	20.3/87.6	155-165 gusting to 185	VERY SEVERE CYCLONIC STORM	
26.05.21/1130	21.4/87.0	155-165 gusting to 185	VERY SEVERE CYCLONIC STORM	
26.05.21/2330	22.2/86.5	90-100 gusting to 110	SEVERE CYCLONIC STORM	
27.05.21/1130	22.8/85.9	40-50 gusting to 60	DEPRESSION	

## Warnings:

### (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, Bhadrak, 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 occurat 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	Light to moderate rain or thundershower	Red Warning (Take Action)
from 0830	very likely to occur at most places over	Heavy to very heavy rainfall at a few places with
Hrs IST of	the districts of north Odisha, at a few	isolated extremely heavy fall very likely to occur
26.05.21 to	over the districts of south Odisha	over the districts of Balasore, Bhadrak, Jajpur,
0830 Hrs IST		Kendrapada, Jagatsinghpur, Cuttack,
of 27.05.21.		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	Light to moderate rain or thundershower	Yellow Warning (Be updated)
from 0830	very likely to occur at many places over	Heavy rainfall very likely to occur at isolated
Hrs IST of	the districts of north interior Odisha, at a	places over the districts of Sundergarh, Deogarh
27.05.21 to	few over the districts of north coastal	and Keonjhar.
0830 Hrs IST	Odisha and at one or two places over the	
of 28.05.21	districts of south Odisha.	

#### (ii) Wind warning

- Gale winds speed reaching 90-100 kmph gusting to 110 kmph is prevailing over major parts of central Bay of Bengal and would increase gradually becoming 100-110 gusting to 120 kmph from today, 25<sup>th</sup> morning.
- Squally wind speed reaching 50-60 kmph gusting 70 kmph is prevailing over North Bay of Bengal and along and off Odisha-West Bengal coasts.
- It would further increase becoming gale wind speed 155-165 kmph gusting to 185 kmph over northwest Bay of Bengal and along & off north Odisha and adjoining West Bengal coasts including Jagatsinghpur, Kendrapada, Bhadrak, Balasore districts of Odisha, 100-120 kmph gusting to 145 kmph over Mayurbhanj district of Odisha from early hours of 26<sup>th</sup> May. Gale wind speed reaching 80-90 kmph gusting to 110 kmph would prevail over Puri, Cuttack, Khurda, Jajpur districts of Odisha during the same period.
- Squally wind speed reaching 60-80 kmph gusting to 90 kmph would prevail over Ganjam, Dhenkanal and Keonjhar districts of Odisha 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, during same period.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph over Kendrapada, Bhadrak, Balasore, Mayurbhanj, Keonjhar, Sundergarh & Deogarh districts of Odisha on 27<sup>th</sup>.

(Wind warning for different districts given in Map below).

#### (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 Odisha–West Bengal coasts during till 26th May.

#### (iv) Fishermen Warning

The fishermen are advised not to venture into central Bay of Bengal till 25th May and into north Bay of Bengal and along & off Odisha coast till 27<sup>th</sup> 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 areas of Balasore, Bhadrak and about 2 meters above astronomical tide are likely to inundate low lying areas of Kendrapara & Jagatsinghpur Districts around the time of landfall.

## Damage Expected for coastal districts of North Odisha, and adjoining interior districts:

- ❖ 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 signaling systems.
- Widespread damage to standing crops, plantations, orchards, falling of green coconuts and tearing of palm fronds.

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- 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, and adjoining interior districts:

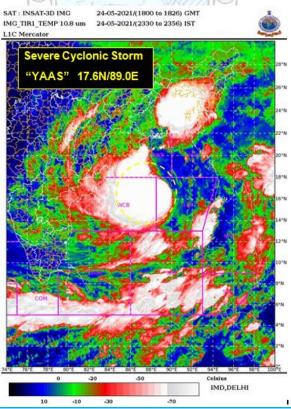
- > Suspension of fishing operation and movement of ships in disturbed areas.
- ➤ Ports along the east coast of India may take necessary pre-cautions.
- Naval base operations may maintain necessary pre-cautions
- Tourism activities may be restricted over these areas.
- ➤ Mobilise evacuation from coastal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

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 > 75%

> Dr.H.R. Biswas, Head & Scientist-E,

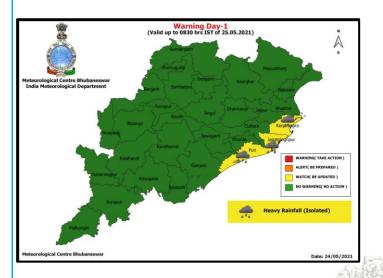
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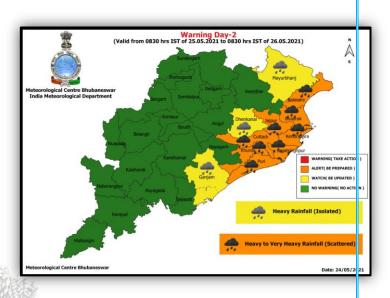
- CHIEF SECRETARY, GOVT OF ODISHA.
- PRINCIPAL SECRETARY, REVENUE & DISASTER MANAGEMENT, GOVT. OF ODISHA.
- PRINCIPAL SECRETARY, DEPT. OF AGRICULTURE, GOVT. OF ODISHA.
- PRINCIPAL SECRETARY, DEPARTMENT OF WATER RESOURCES, GOVT, OF ODISHA
- SPECIAL RELIEF COMMISSIONER (SRC), GOVT. OF ODISHA BHUBANESWAR.
- REVENUE SECRETARY, GOVT. OF ODISHA, BHUBANESWAR.
- M.D., OSDMA, GOVT. OF ODISHA, BHUBANESWAR.
- RDC, CENTRAL DIVISION/ SOUTHERN DIVISION/ NORTHERN DIVISION.
- AIR CUTTACK / DOORDARSHAN.

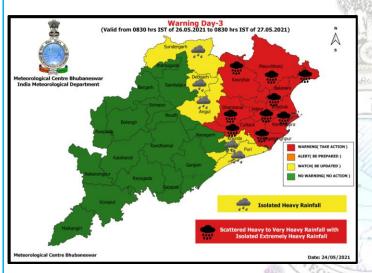


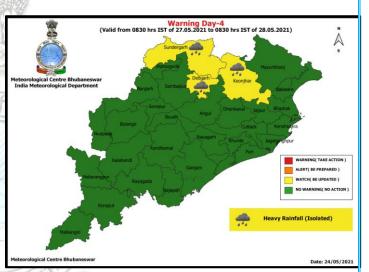
Met .Centre Bhubaneswar

#### Rainfall Warning Maps for Day-1 to Day-4



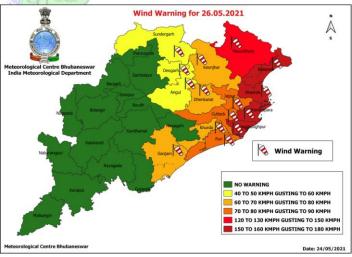


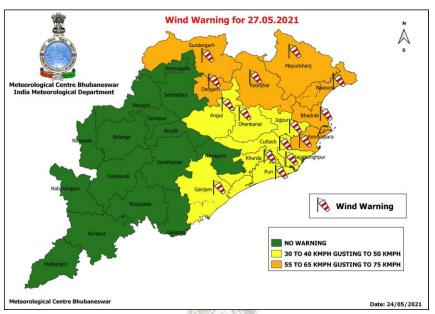


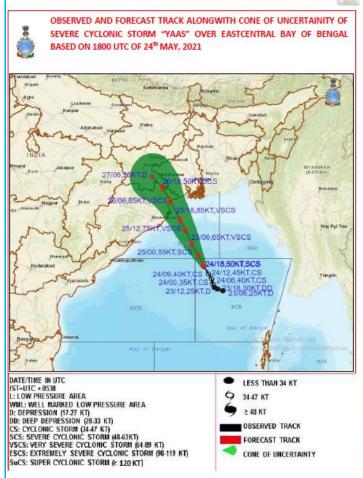


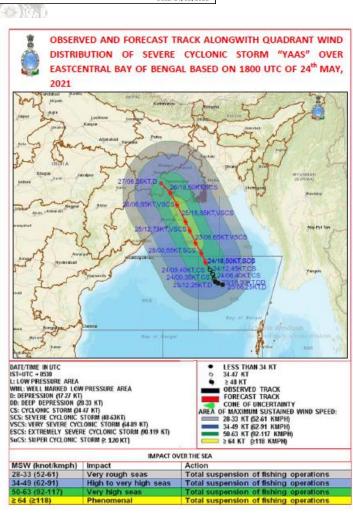
# Wind warning for 25th to 27th May,2021











<u>Storm surge information</u>
\* The below listed surge heights are over and above astronomical tide.

MANDAL/ TALUK	DISTRICT	NEAREST PLACE OF HABITATION	STORM SURGE(M)*	EXPECTED INUNDATION EXTENT(KM)
Balasore	Balasore	Kumbhirgari	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

