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 ଭବନେ**ଜ୍ଞ**ର, ଓଡିଶା-୭୫୧୦୨୦

SPECIAL BULLETIN -13

DATE: 24.05.2021 TIME: 2300 HRS IST

Sub:: Cyclonic Storm 'Yaas' (pronounced as 'Yass') over Eastcentral Bay of Bengal – (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 12 kmph during past 6 hours, and lay centred at 2030 hrs IST of today, the 24th May, 2021 over Eastcentral Bay of Bengal near latitude 17.4°N and longitude 89.2°E, about 420 km south-southeast of Paradip (Odisha), 510 km south-southeast of Balasore (Odisha), 500 km south-southeast of Digha (West Bengal) and 520 kms nearly south of Khepupara. It is very likely to move north-northwestwards, intensify further into a Severe Cyclonic Storm during next 06 hours and into a Very Severe Cyclonic Storm during subsequent 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 26th 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	Maximum sustained	5 ,	
	Lat. ⁰ N/ long. ⁰ E)	14.2 and 15.4 and 15.4 and 15.5 and 15.	disturbance	
		wind speed (Kmph)		
24.05.21/2030	17.4/89.2	80-90 gusting to 100	CYCLONIC STORM	
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	
26.05.21/0530	20.9/87.3	155-165 gusting to 185	VERY SEVERE CYCLONIC STORM	
26.05.21/1730	21.9/86.7	125-135 gusting to 150	VERY SEVERE CYCLONIC STORM	
27.05.21/0530	22.5/86.3	70-80 gusting to 90	CYCLONIC STORM	
27.05.21/1730	23.2/85.6	40-50 gusting to 60	DEPRESSION	

Warnings:

(i) Rainfall:

(I) Kaiman.		9/2/
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	ε	Red Warning (Take Action)
from 0830		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 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.
01 27.03.21.		Yellow Warning (Be updated) Heavy rainfall very likely to occur at isolated places over the districts of Anugul, Deogarh,
Day-4: Valid from 0830 Hrs IST of	Light to moderate rain or thundershower very likely to occur at many places over the districts of north interior Odisha, at a	Khurdha, Puri and Sundergarh. Yellow Warning (Be updated) Heavy rainfall very likely to occur at isolated places over the districts of Sundergarh, Deogarh
27.05.21 to 0830 Hrs IST of 28.05.21	few over the districts of north coastal Odisha and at one or two places over the districts of south Odisha.	and Keonjhar.

(ii) Wind warning

- Gale winds speed reaching 80-90 kmph gusting to 100 kmph prevailing over major parts of central Bay of Bengal and would increase gradually becoming 100-110 gusting to 120 kmph from 25th 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, Kendrapara, Bhadrak, Balasore districts of Odisha, 100-120 kmph gusting to 145 kmph over Mayurbhanj district of Odisha from early hours of 26th May. Gale wind speed reaching 80-90 kmph gusting to 110 kmph would prevail over Puri, Cuttack, Khurda, Jajpur districts of Odisha during same period.
- Squally wind speed reaching 60-80 kmph gusting to 90 kmph would prevail over Ganjam, Dhenkanal and Keonjhar districts of Odisha from early hours of 26th May. Squally wind speed reaching 50-60 kmph gusting to 70 kmph would prevail over Angul, Deogarh & Sundergarh districts of Odisha during the 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.

(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 25th – 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 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 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.

<u>Damage Expected for coastal districts of North Odisha, and adjoining interior districts:</u>

- ❖ 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.
- **&** Blowing down of bushy trees like mango.

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- ❖ 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, Met .Centre Bhubaneswar

То

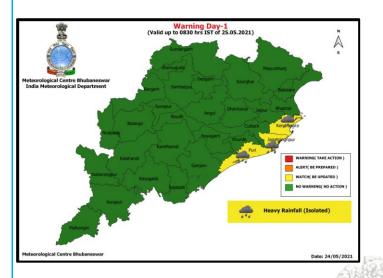
- 1. CHIEF SECRETARY, GOVT OF ODISHA.
- 2. PRINCIPAL SECRETARY, REVENUE & DISASTER MANAGEMENT, GOVT. OF ODISHA.
- 3. PRINCIPAL SECRETARY, DEPT. OF AGRICULTURE, GOVT. OF ODISHA.
- 4. PRINCIPAL SECRETARY, DEPARTMENT OF WATER RESOURCES, GOVT, OF ODISHA.
- 5. SPECIAL RELIEF COMMISSIONER (SRC), GOVT. OF ODISHA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

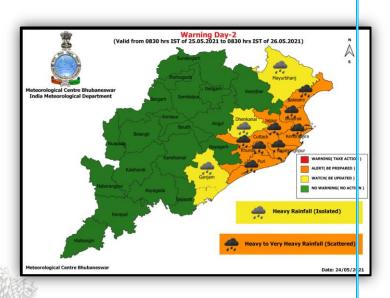
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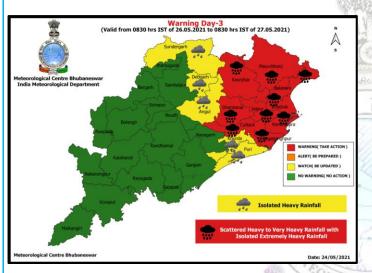
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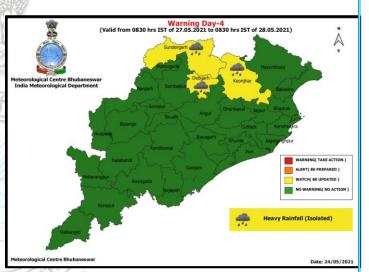
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Rainfall Warning Maps for Day-1 to Day-4



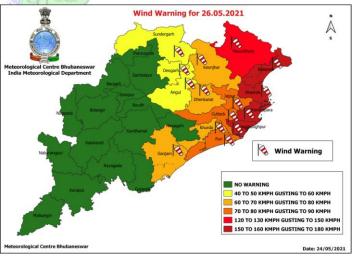


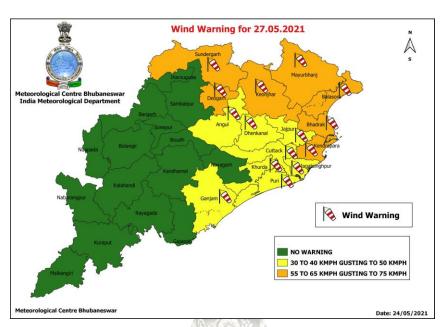


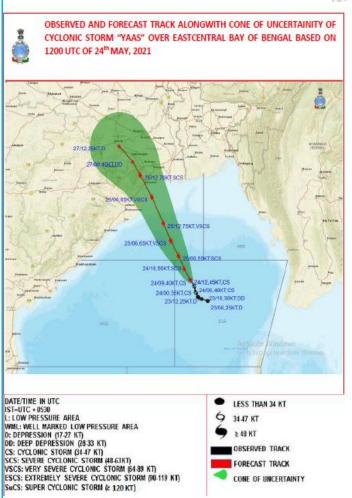


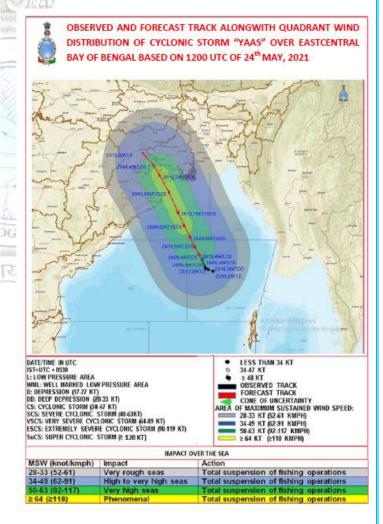
Wind warning for 25th to 27th May,2021











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<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

