भारतसरकार पृथ्वीविज्ञानमंत्रालय भारतमौसमविज्ञानविभाग मौसमविज्ञानकेंद्र भुवनेश्वर, ओडिशा-751020

GOVERNMENT OF INDIA MINISTRY OF EARTH SCIENCES INDIA METEOROLOGICAL DEPARTMENT METEOROLOGICAL CENTRE BHUBANESWAR, ODISHA-751020 ଭାରତସରକାର ପୃଥିବୀବିଜ୍ଞାନମନ୍ତ୍ରାଳୟ ଭାରତପାଣିପାଗବିଜ୍ଞାନବିଭାଗ ପାଣିପାଗବିଜ୍ଞାନକେନ୍ଦ୍ର ଭୁବନେଶ୍ୱର, ଓଡିଶା-୭୫ ୧ ୦ ୨ ୦

# SPECIAL BULLETIN-05

Date: 3<sup>rd</sup> December 2021 Time: 0700 Hrs IST

Sub: Depression over southeast Bay of Bengal: Pre-Cyclone Watch for north Andhra Pradesh and Odisha coasts.

The Depression over southeast Bay of Bengal moved west-northwestwards with a speed of 32 kmph during past 06 hours and lay centered at 2330 hrs IST of 2nd December 2021, over the same region near Lat. 12.0°N and Long. 87.5°E, about 770 km south-southeast of Vishakhapatnam (Andhra Pradesh), 850 km south-southeast of Gopalpur (Odisha) & 920 km south-southeast of Paradip (Odisha).

It is likely to move northwestwards and intensify into a Cyclonic Storm over central parts of the Bay of Bengal during next 24 hours. It is likely to reach west-central Bay of Bengal off north Andhra Pradesh – south Odisha coasts around 4th December morning. Thereafter it is likely to move north-northeastwards.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position	Maximum sustained surface	Category of cyclonic
	(Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	wind speed (Kmph)	disturbance
02.12.21/2330	12.0/87.5	45-55 gusting to 65	DEPRESSION
03.12.21/1130	13.6/85.4	50-60 gusting to 70	DEEP DEPRESSION
03.12.21/2330	15.2/84.1	70-80 gusting to 90	CYCLONIC STORM
04.12.21/1130	16.9/83.6	90-100 gusting to 110	SEVERE CYCLONIC STORM
04.12.21/2330	18.4/84.5	80-90 gusting to 100	CYCLONIC STORM
05.12.21/1130	19.5/85.6	60-70 gusting to 80	CYCLONIC STORM

# Details Forecast and warning as follows:

## **Rainfall Forecast:**

Light to moderate rain or thundershower very likely to occur at many places over the districts of south coastal Odisha & at a few places over rest districts Odisha on today, 3<sup>rd</sup> December, light to moderate rain or thundershower very likely to occur at most places over districts of coastal Odisha & at many places over the districts of interior Odisha on 4<sup>th</sup> and light to moderate rain or thundershower very likely to occur at most places over the districts of north coastal Odisha and at many places over rest districts of Odisha on 5<sup>th</sup> Dec, 2021.

## Warnings:

Heavy Rainfall Warning	Expected Impact & action suggested	
Day-1 (Valid from 0830 Hrs IST of	<u>Impact Expected:</u> i)Major damage to thatched houses/ huts.	
03.12.21 to 0830 Hrs IST of 04.12.21 ):		
Yellow Warning (Be updated)	ii) Breaking of tree branches, uprooting of trees.	
Heavy to very heavy rainfall very likely to	iii)Minor damage to power and communication lines.	
occur at one or two places over the districts of	iv)Localized Flooding of roads, inundation and water logging	
1	in low lying areas and closure of underpasses mainly in urban	
Ganjam , Gajapati with heavy rainfall very	areas of the affected region.	
likely to occur at one or two places over the	v)Occasional reduction in visibility due to heavy rainfall.	
districts of Koraput, Rayagada, Puri	vi)Disruption of traffic in major cities due to water logging in	
Jagatsinghpur and Kendrapada	roads leading to increased travel time.	
Day-2 (Valid from 0830 Hrs IST of	vii) Minor Damage to Kutcha roads and vulnerable structure	
04.12.21 to 0830 Hrs IST of 05.12.21 ):	and wall collapsed of vulnerable kutcha houses	
Red warning (Take action)		

Heavy to very heavy rainfall very likely to	viii) Localized Landslides/Mudslides in hilly areas			
occur at a few places with isolated extremely	ix) Damage to horticulture and standing crops in some			
heavy falls(more than 20 cm) over the districts	areas due to inundation. Damage to banana, Papaya &			
of Gajapati, Ganjam, Puri, and	Moringa (Drumstick) trees.			
Jagatsinghpur	x) It may lead to riverine flooding in some river			
Orange warning (Be Prepared)	catchments(Nagavali, Rushikulya, Vanshadhara) (for			
Heavy to very heavy rainfall very likely to at	riverine flooding please visit Web page of CWC)			
one or two places over the districts of	I <u>Action Suggested</u>			
Kendrapada, Cuttack, Khordha, Nayagarh,	i) Total suspension of fishing operations.			
Kandhamal, Rayagada and Koraput	ii) Check for traffic congestion on your route before			
Yellow Warning (Be updated)	leaving for your destination.			
Heavy rainfall very likely to occur at isolated	iii) Follow any traffic advisories that are issued in this			
places over the districts of Balasore, Bhadrak,	regard.			
Jajpur and Malkangiri.	iv) Avoid going to areas that face the water logging			
Day-3 (Valid from 0830 Hrs IST of 05.12.21	problems often.			
to 0830 Hrs IST of 06.12.21 )	v) Avoid staying in vulnerable structure.			
Orange warning (Be Prepared)	vi) Harvest the ripen crops like Paddy & Horticultural			
Heavy to very heavy rainfall very likely to	crops and also secure the harvested crops securely from the			
occur at one or two places over the districts of	damage due to rain and strong winds.			
Mayurbhanj, Balasore, Bhadrak,	vii) Harvest of matured paddy crop and the harvested paddy			
Kendrapada, Jagatsinghpur, Jajpur,	should be shifted to safer places. Also harvest the rabi			
Cuttack, and Puri.	vegetables like cauliflower and cabbage if heads are ready to			
	use.			
<b>Yellow Warning (Be updated)</b>	viii) Do arrangement for Drainage of excess water from			
Heavy rainfall very likely to occur at isolated	standings crops in growing stage and vegetable fields.			
places over the districts of Keonjhar, Angul,	ix) Postpone sowing of rabi crop like Green gram, black gram			
Dhenkanal, Nayagarh, Khordha, Ganjam	and Mustard and vegetables like potato, Onion and coriander.			
and Gajapati	x) Provide support to young fruit plants like Papaya and			
18	Banana and vegetables like ridge gourd. Cover the vegetable			
10/10	nursery with white polythene.			
15/1	xi) Keep the livestocks indoors during rainfall if possible keep			
	them loose inside the shed. Keep feed for 3-5 days, in case of			
Wind worning	any emergency.			
Wind warning:				

(i) Squally wind speed reaching wind speed reaching 50-60 kmph gusting to 70 kmph over east-central Bay of Bengal, from today, 3rd December morning. Gale winds speed reaching 65-75 kmph gusting to 85 kmph likely to prevail over central Bay of Bengal from the evening of 3rd December and gradually increase becoming 90-100 kmph gusting to 110 kmph over northwest & adjoining west-central Bay of Bengal from the morning of 4th December for the subsequent 24 hours.

# (ii) Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off North Andhra Pradesh – Odisha coasts from the mid-night of 3rd December and increase gradually becoming 70-80 kmph gusting to 90 kmph from 4th morning, for the subsequent 12 hours.

#### Sea conditions

Sea condition would be high over central Bay of Bengal on today, 3rd December and High to very high over westcentral & northwest Bay of Bengal from the early morning of 4th December for the subsequent 24 hours.

Sea condition will be rough to very rough over along & off North Andhra Pradesh – Odisha coast from the midnight of 3rd December and become high to very high from 4th Afternoon, for the subsequent 12 hours.

#### **Fishermen Warning:**

**Fishermen are advised not to venture into** southeast & adjoining east-central Bay of Bengal till today, 3<sup>rd</sup> December, west-central & adjoining northwest Bay of Bengal and along & off north Andhra Pradesh - Odisha- West Bengal coasts till 5th December 2021.

#### Port warning:

Keep hoisted Distance Cautionary Signal No.1 (DC-1) at all ports of Odisha.

## Advisory to along & off shore Installations

The off-shore & alongshore operations along Odisha coast (Viz., All ports of Odisha, ITR Chandipur, Army Defence College, Gopalpur, INS Chilika, Chilika Development Authority establishment, ICZMP activity,

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**Bhitarkanika wildlife sanctuary, Kendrapada, ONGC Odisha etc**) are advised to be judiciously regulated on today, 3rd December and to be suspended on 4th December 2021, to ensure safety of life & property.

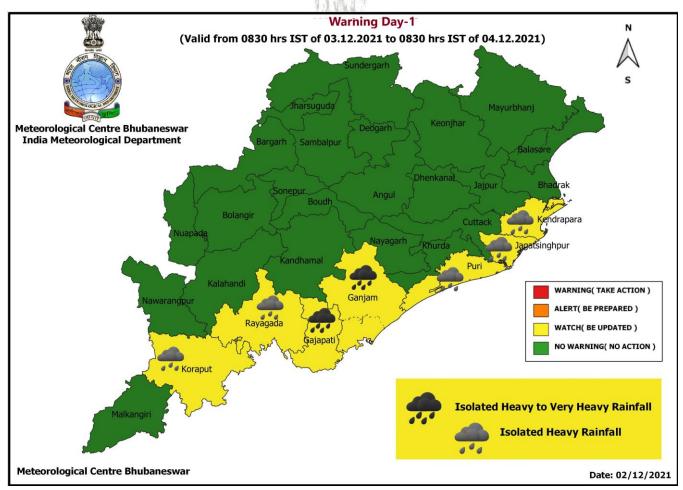
**N.B:** Spatial rainfall distribution: ISOLATED :=< 25%, A few: 26-50%, Many: 51-75%, Most: 76-100%, RAINFALL amount (MM): Heavy rain: 64.5 - 115.5, Very heavy rain: 115.6 - 204.4, Extremely heavy rain: 204.5 or more. Probabilistic forecast: Unlikely =< 25%, Likely 26-50%, Very Likely 51-75%, Most Likely > 75%

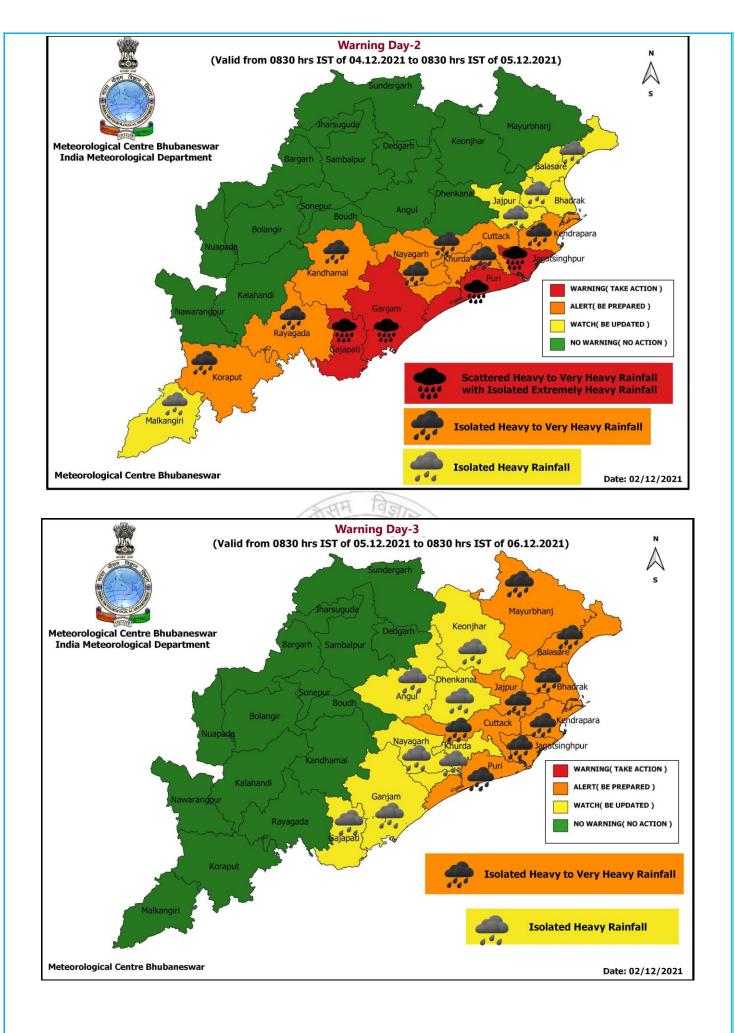
Dr.H.R. Biswas, Head & Scientist-E, Met .Centre Bhubaneswar

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.

#### Rainfall Warning Maps for Day-2 to Day-4







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GOVERNMENT OF INDIA Ministry of Earth Sciences India Meteorological Department Meteorological Centre Bhubaneswar, Odisha-751020 ଭାରତସରକାର ପୃଥିବୀବିଜ୍ଞାନମନ୍ତ୍ରାଳୟ ଭାରତପାଣିପାଗବିଜ୍ଞାନବିଭାଗ ପାଣିପାଗବିଜ୍ଞାନକେନ୍ଦ୍ର ଭୁବନେଶ୍ୱର, ଓଡିଶା-୭୫ ୧ ୦ ୨ ୦

