



SPECIAL BULLETIN NO.-24

**DATE: 19.05.2020
TIME: 0615 HRS IST**

Sub: Super Cyclonic Storm 'AMPHAN' (pronounced as UM-PUN) over Westcentral Bay of Bengal: Cyclone Warning for north Odisha coasts: Orange Message.

The **Super Cyclonic Storm 'AMPHAN'** (pronounced as **UM-PUN**) over Westcentral Bay of Bengal moved nearly north-northeastwards with a speed of 14 kmph during past 06 hours and lay centred at 0230 hrs IST of 19th May, 2020 near latitude 15.2°N and longitude 86.6°E over **Westcentral Bay of Bengal** about 570 km nearly south of Paradip (Odisha), 720 km south-southwest of Digha (West Bengal) and 840 km south-southwest of Khepupara (Bangladesh).

It is very likely to move north-northeastwards across northwest Bay of Bengal and cross West Bengal – Bangladesh coasts between Digha (West Bengal) and Hatiya Islands (Bangladesh) close to Sundarbans during the Afternoon / Evening of 20th May 2020 as an Extremely Severe Cyclonic Storm with maximum sustained wind speed of 165-175 kmph gusting to 195 kmph.

The super cyclone 'AMPHAN' is now being continuously tracked by the Doppler Weather Radar (DWR) at Vishakhapatnam (Andhra Pradesh).

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
19.05.20/0230	15.2/86.6	240-250 gusting to 275	SUPER CYCLONIC STORM
19.05.20/0530	15.9/86.7	240-250 gusting to 275	SUPER CYCLONIC STORM
19.05.20/1130	17.1/87.0	225-235 gusting to 260	SUPER CYCLONIC STORM
19.05.20/1730	17.7/87.2	200-210 gusting to 230	EXTREMELY SEVERE CYCLONIC STORM
19.05.20/2330	18.6/87.5	180-190 gusting to 210	EXTREMELY SEVERE CYCLONIC STORM
20.05.20/1130	20.7/88.1	170-180 gusting to 200	EXTREMELY SEVERE CYCLONIC STORM
20.05.20/2330	22.8/88.8	100-110 gusting to 120	SEVERE CYCLONIC STORM
21.05.20/1130	24.8/89.5	50-60 gusting to 70	DEEP DEPRESSION

WEATHER FORECAST AND WARNINGS:

RAINFALL:

DAYS	FORECAST	HEAVY RAINFALL WARNING
Day 1 (Valid upto 0830 HRS IST of 19.05.2020)	Light to moderate rain or thundershower very likely to occur at many places over the districts of coastal Odisha, at a few places over districts of south interior odisha and at one or two places over rest district of Odisha.	YELLOW WARNING (BE UPDATED): Heavy rainfall very likely to occur at isolated places over the district of Gajapati, Ganjam, Puri, Jagatsinghpur and Kendrapara.

Day 2 (Valid from 0830 hrs IST of 19.05.2020 up to 0830 HRS IST of 20.05.2020)	Light to moderate rain or thundershower very likely to occur at most places over the districts of coastal Odisha, at a few places over districts of rest 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, Jagatsinghpur Kendrapara and Mayurbhanj and isolated heavy rainfall likely over Cuttack, Khurda and Puri of Odisha.
Day 3 (Valid from 0830 hrs IST of 20.05.2020 up to 0830 HRS IST of 21.05.2020)	Light to moderate rain or thundershower very likely to occur at most places over the district of North Coastal Odisha, Mayurbhanj and at a few places over the rest districts of Odisha.	YELLOW WARNING (BE UPDATED): Heavy rainfall very likely to occur at isolated places over the district of Balasore, Bhadrak, Jajpur, Kendrapara, Keonjhar and Mayurbhanj .

WIND WARNING:

Odisha Coast:

Orange Warning (Be prepared): - Squally wind speed reaching 55 to 65 kmph gusting to 75 kmph extend to along & off north Odisha coast from 19th morning and along and off West Bengal coast from 19th afternoon.

Red Warning (Take action):

The wind speed will gradually increase becoming gale wind speed reaching 75 to 85 kmph gusting to 95 kmph from 20th morning along and off north Odisha coast (Jagatsinghpur, Kendrapara, Bhadrak, Balasore) and Mayurbhanj. It will gradually increase thereafter becoming 110 to 120 kmph gusting to 135 kmph along & off the above mentioned districts of North Odisha.

Squally wind speed reaching 55-65 kmph gusting to 75 kmph likely to prevail over Puri, Khordha, Cuttack, Jajpur districts of Odisha during 20th May 2020.

Deep Sea area

Gale wind speed reaching 230-240 gusting to 265 kmph is prevailing over westcentral Bay of Bengal. It is likely to prevail over northern parts of central Bay of Bengal and adjoining North Bay of Bengal during 19th May morning.

Gale wind speed reaching 200-210 gusting to 230 kmph over north Bay of Bengal from 19th morning will gradually decrease becoming 165-175 kmph gusting to 195 kmph by 20th evening.

Sea condition

SEA CONDITION IS PHENOMENAL AND IS LIKELY TO CONTINUE FOR NEXT 24 HOURS OVER SOUTHERN PARTS OF WESTCENTRAL BAY OF BENGAL. IT WILL BECOME PHENOMENAL OVER NORTHERN PARTS OF CENTRAL BAY OF BENGAL AND ADJOINING NORTH BAY OF BENGAL ON 19TH MAY AND OVER NORTH BAY OF BENGAL ON 20TH MAY 2020.

Fishermen Warning

Fishermen warning for deep sea area:

The fishermen are advised not to venture into west-central and adjoining central parts of south Bay of Bengal during next 24 hours, into central Bay of Bengal and North Bay of Bengal till 20th May 2020.

Fishermen warning for Odisha Coast: (Red Warning(Take Action))

Fishermen are advised not to venture into the sea along and off Odisha coast till 21st May,2020.



Port Warning:

Keep Hoisted Local Cautionary Signal No.3 (LC-3) at Gopalpur and Puri Ports and Local warning signal No-4 (LW-4) at Paradip, Chandbali/Dhamara ports of Odisha.

DAMAGE EXPECTED AND ACTION SUGGESTED

Jagatsinghpur, Kendrapara, Bhadrak, Balasore, Jajpur & Mayurbhanj districts of Odisha

Damage expected:

- 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. Minor disruption of railways, overhead power lines and signalling systems.
- Widespread damage to standing crops, plantations, orchards, falling of green coconuts and tearing of palm fronds. Blowing down of bushy trees like mango.
- Small boats, country crafts may get detached from moorings.

Fishermen warning & action suggested:

- Total suspension of fishing operations along & off odisha coast during till 20th May 2020.
- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.
- Movement in motor boats and small ships not advisable.

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.

(H.R.Biswas)
Scientist 'E' & Head
Meteorological Centre, Bhubaneswar

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.

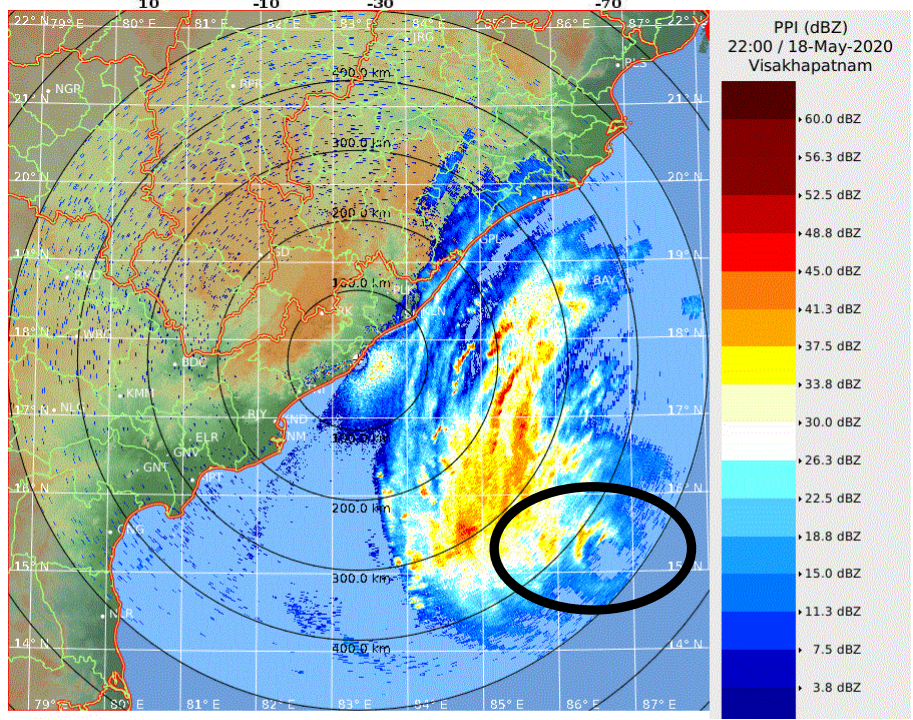
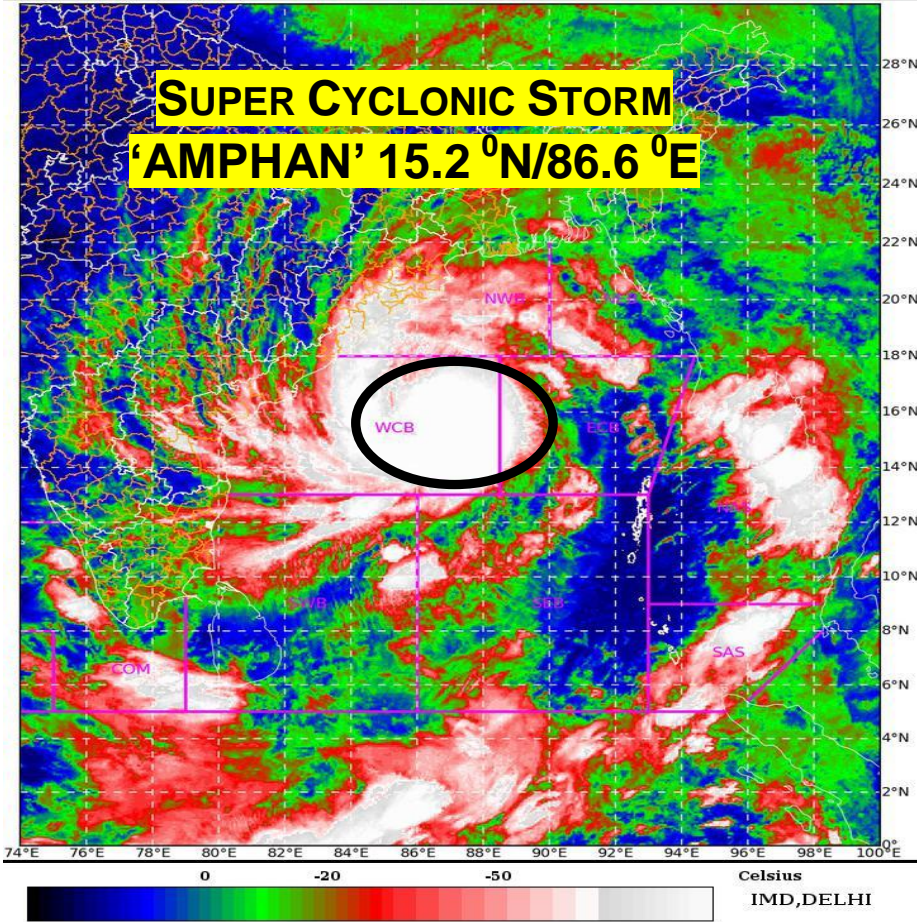


FIGURE: REFLECTIVITY OF VISHAKHAPATNAM DOPPLER WEATHER RADAR AT 03:30 IST OF 19TH MAY 2020

Time sampling: 16
 PRF: 300 Hz
 Range: 500 km
 Resolution: 1.429 km/pixel
 Elevation: -0.2 deg
 Data: Radar Data
 Rainbow® SELEX-SI

