



**SPECIAL BULLETIN NO.-12**

**DATE: 17.05.2020**

**TIME: 1745 HRS IST**

**SUB: VERY Severe Cyclonic Storm 'AMPHAN' (pronounced as UM-PUN) over central parts of South Bay of Bengal: **Cyclone Alert for West Bengal and north Odisha coasts: Yellow Message.****

The Severe Cyclonic Storm 'AMPHAN' (pronounced as UM-PUN) over central parts of South Bay of Bengal and neighbourhood moved slowly northwards with a speed of 05 kmph during past 06 hours, further intensified into a Very Severe Cyclonic Storm and lay centred at 1430 hrs IST of today, the 17<sup>th</sup> May, 2020 over central parts of South Bay of Bengal near latitude 11.7°N and longitude 86.0°E, about 960 km south of Paradip (Odisha), 1110 km south-southwest of Digha (West Bengal) and 1230 km south-southwest of Khepupara (Bangladesh). It is very likely to intensify further into an Extremely Severe Cyclonic Storm during next 24 hours. It is very likely to move nearly northwards slowly during next 12 hours and then re-curve north-northeastwards and move fast across northwest Bay of Bengal and cross West Bengal – Bangladesh coasts between Digha (West Bengal) and Hatiya Islands (Bangladesh) during the Afternoon / Evening of 20<sup>th</sup> May 2020 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
17.05.20/1430	11.7/86.0	120-130 gusting to 145	VERY SEVERE CYCLONIC STORM
17.05.20/1730	12.0/86.0	125-135 gusting to 150	VERY SEVERE CYCLONIC STORM
17.05.20/2330	12.7/86.0	130-140 gusting to 155	VERY SEVERE CYCLONIC STORM
18.05.20/0530	13.5/86.0	140-150 gusting to 165	VERY SEVERE CYCLONIC STORM
18.05.20/1130	14.0/86.1	150-160 gusting to 175	VERY SEVERE CYCLONIC STORM
18.05.20/2330	15.2/86.3	170-180 gusting to 200	EXTREMELY SEVERE CYCLONIC STORM
19.05.20/1130	16.6/86.7	170-180 gusting to 200	EXTREMELY SEVERE CYCLONIC STORM
19.05.20/2330	18.4/87.2	170-180 gusting to 200	EXTREMELY SEVERE CYCLONIC STORM
20.05.20/1130	20.4/87.7	160-170 gusting to 190	EXTREMELY SEVERE CYCLONIC STORM
20.05.20/2330	22.4/88.2	120-130 gusting to 145	VERY SEVERE CYCLONIC STORM
21.05.20/1130	24.2/88.7	70-80 gusting to 90	CYCLONIC STORM
21.05.20/2330	26.0/89.2	40-50 gusting to 60	DEPRESSION

**WEATHER FORECAST AND WARNING FOR NEXT FIVE DAYS**

**RAINFALL:**

DAYS	FORECAST	HEAVY RAINFALL WARNING
Day 1 (Valid upto 0830 HRS IST of 18.05.2020)	Light to moderate rain or thundershower very likely to occur at one or two places over the districts of coastal Odisha and Koraput, Rayagada, Malkangiri, Nawarangpur, Knadhamal, Keonjhar, Mayurbhanj, Dhenkanal and dry weather likely to prevail over rest districts of Odisha.	NIL
Day 2 (Valid from 0830 hrs IST of 18.05.2020 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 and Koraput, Rayagada, at one or two places over rest district of Odisha.	<b>YELLOW WARNING (BE UPDATED):</b> Heavy rainfall very likely to occur at isolated places over the district of Gajapati, Ganjam, Puri, Jagatsinghpur and Kendrapara. Rainfall will commence from 18th May evening.

Day 3 (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.	<b>ORANGE WARNING (BE PREPARED):</b> Heavy to very heavy rainfall very likely to occur at a few places over the districts of coastal Odisha.
Day 4 (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.	<b>YELLOW WARNING (BE UPDATED):</b> Heavy rainfall very likely to occur at isolated places over the district of Balasore, Bhadrak, Jajpur, Kendrapara, Mayurbhanj and Keonjhar.
Day 5 (Valid from 0830 hrs IST of 21.05.2020 up to 0830 HRS IST of 22.05.2020)	Light to moderate rain or thundershower very likely to occur at one or two places over the district of North Odisha and dry weather likely to prevail over the district of south Odisha	NIL

**WIND WARNING:**

**Odisha Coast:**

**Yellow Warning (Be Updated):** -Squally wind speed reaching 45 to 55 kmph gusting to 65 kmph is likely to commence along and off south Odisha coast from 18<sup>th</sup> evening.

**Orange Warning (Be Prepared):**

**Squally wind speed reaching 45 to 55 kmph gusting to 65 kmph is likely along and off Odisha coast on 19<sup>th</sup> May. The wind speed will gradually increase becoming gale wind speed reaching 75 to 85 kmph gusting to 95 kmph from 20<sup>th</sup> morning along and off north Odisha coast. It will gradually increase thereafter becoming 110 to 120 kmph gusting to 135 kmph along & off North Odisha coast from the afternoon of 20<sup>th</sup> May 2020.**

**Bay of Bengal**

Gale wind speed reaching 120-130 gusting to 145 kmph is prevailing over southeast and adjoining southwest Bay of Bengal. It is likely to increase becoming 140-150 gusting to 165 kmph over southern parts of central Bay of Bengal by 18<sup>th</sup> morning, 170-180 gusting to 200 kmph over northern parts of central Bay of Bengal and adjoining North Bay of Bengal on 19<sup>th</sup>, and 155-165 gusting to 180 kmph over north Bay of Bengal during 20<sup>th</sup> May.

**Sea condition**

Sea condition will be Phenomenal over central parts of south Bay of Bengal and adjoining central Bay of Bengal during next 24 hours. It will become Phenomenal over southern parts of central Bay of Bengal from tonight, over northern parts of central Bay of Bengal and adjoining north Bay of Bengal on 19<sup>th</sup> May and over north Bay of Bengal on 20<sup>th</sup> May 2020.

**Fishermen Warning**

**Fishermen warning for deep sea area:**

The fishermen are advised not to venture into south Bay of Bengal till 17<sup>th</sup> May, to central Bay of Bengal during 17<sup>th</sup> to 18<sup>th</sup> May and North Bay of Bengal during 19<sup>th</sup> to 20<sup>th</sup> 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 from 18<sup>th</sup> May onwards till further notice. Those who are out of sea are advised to return to the coast by tonight, 17<sup>th</sup> May, 2020.**

**Port Warning:**

**Keep hoisted Distant Warning Signal No.2 (DW-2) at all ports of Odisha.**

**N.B:** SPATIAL RAINFALL DISTRIBUTION: ISOLATED: <25%, A FEW: 26-50%, MANY: 51-75%, MOST: 76-100%

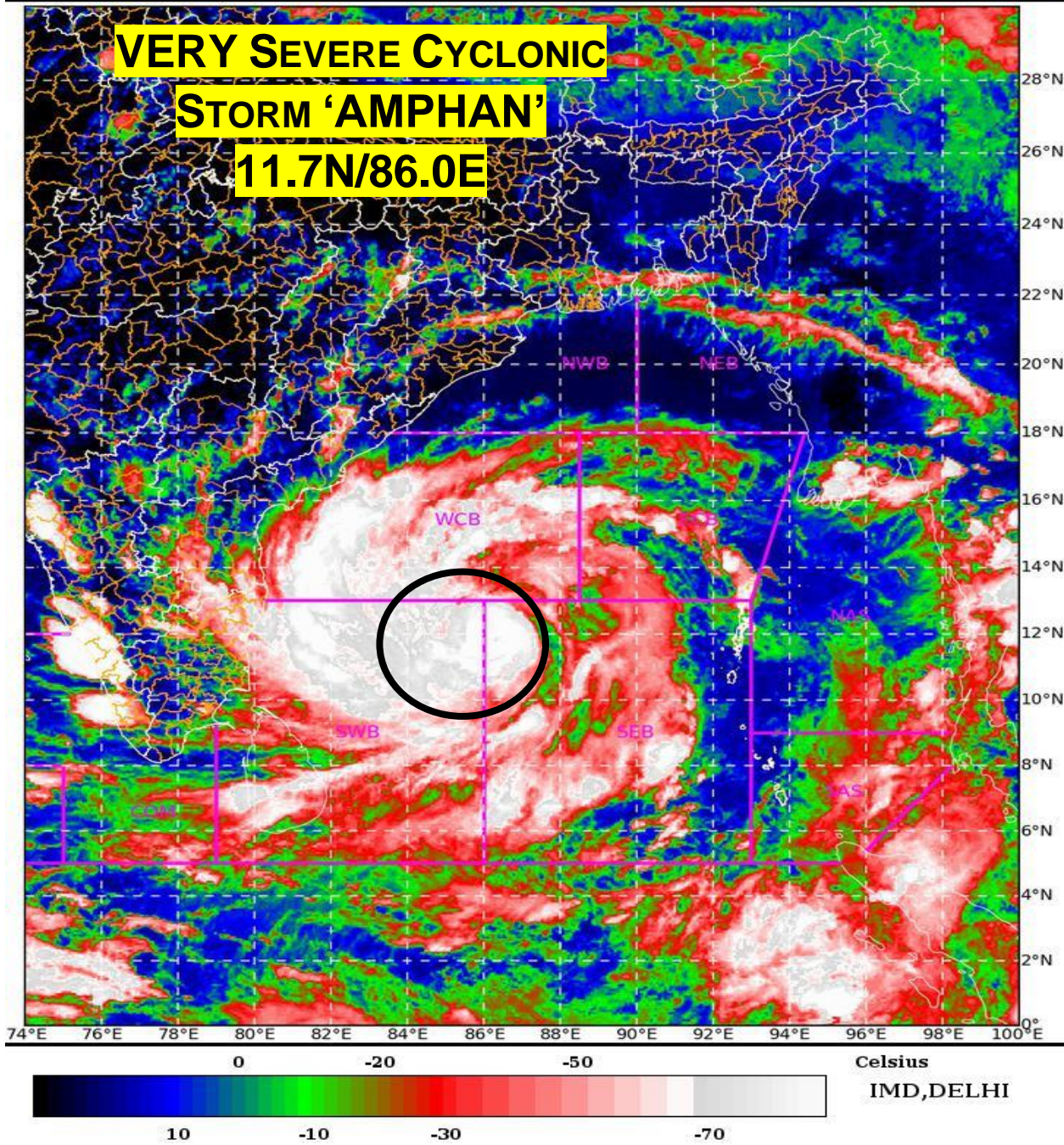
**RAINFALL AMOUNT (MM): HEAVY RAIN: 64.5 – 115.5, VERY HEAVY RAIN: 115.6 – 204.4, EXTREMELY HEAVY RAIN: 204.5 OR MORE. DISTRICTS OF NORTH COASTAL ODISHA: BALASORE, BHADRAK, JAJPUR, KENDRAPARA, JAGATSingHPUR, CUTTACK, DISTRICTS OF SOUTH COASTAL ODISHA: GAJAPATI, GANJAM, PURI, KHURDA, NAYAGARH**

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

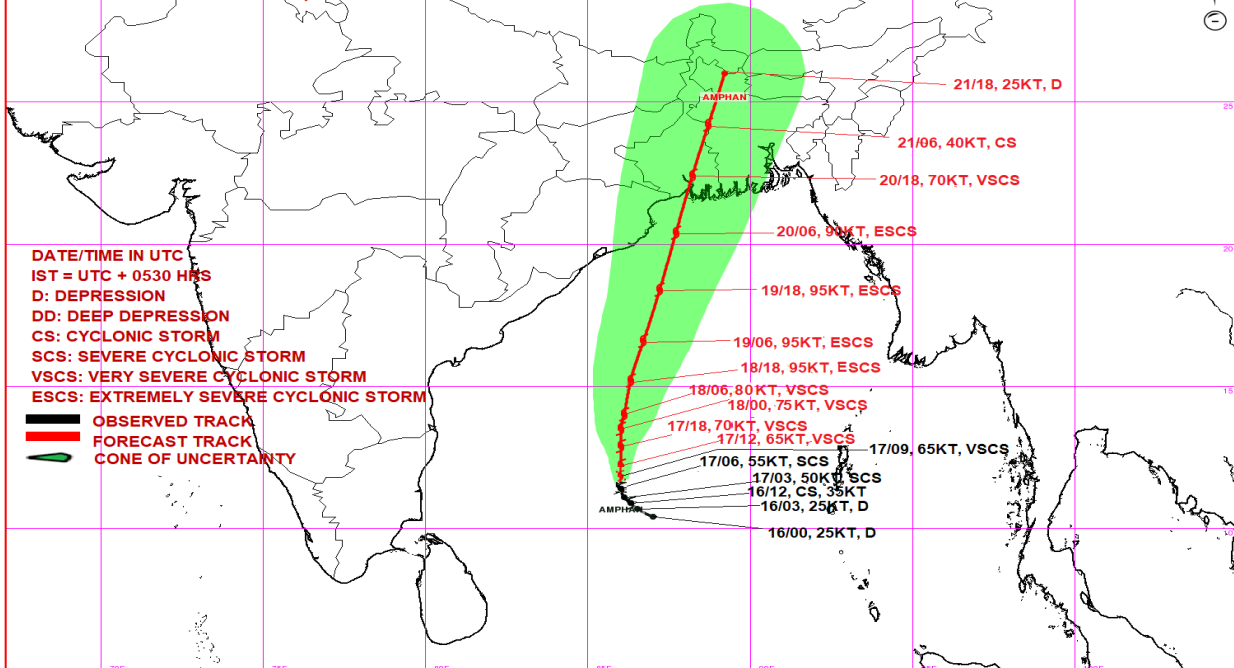
1. Chief Secretary, Govt. of Odisha.
2. Principal Secretary, Revenue & Disaster Management, Govt. of Odisha.
3. Principal Secretary, Dept. of Agriculture, Govt. of Odisha.
4. Principal Secretary, Department of Water Resources, Govt. of Odisha.
5. Special Relief Commissioner (SRC), Govt. of Odisha Bhubaneswar.
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.



SAT : INSAT-3D IMG            17-05-2020/(1030 to 1056) GMT  
IMG\_TIR1\_TEMP 10.8 um    17-05-2020/(1600 to 1626) IST  
L1C Mercator



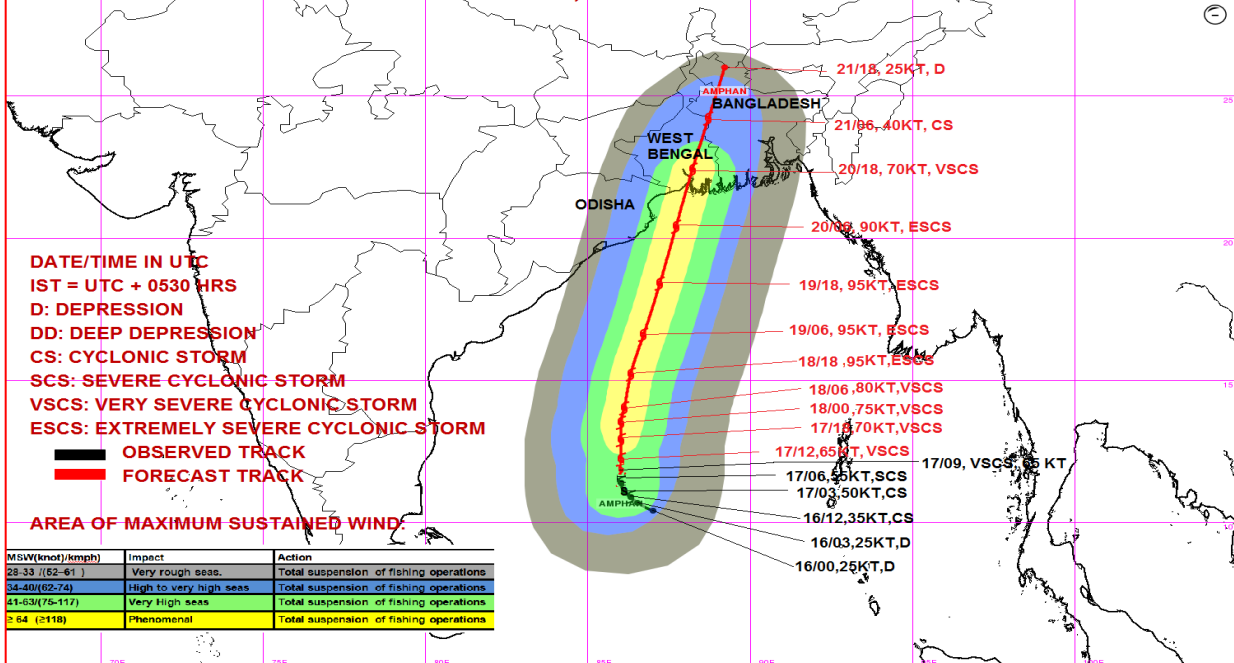
**OBSERVED & FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM, AMPHAN OVER CENTRAL PARTS OF SOUTH BAY OF BENGAL BASED ON 0900 UTC OF 17<sup>TH</sup> MAY, 2020**



DATE/TIME IN UTC  
 IST = UTC + 0530 HRS  
 D: DEPRESSION  
 DD: DEEP DEPRESSION  
 CS: CYCLONIC STORM  
 SCS: SEVERE CYCLONIC STORM  
 VSCS: VERY SEVERE CYCLONIC STORM  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM

— OBSERVED TRACK  
 — FORECAST TRACK  
 — CONE OF UNCERTAINTY

**OBSERVED & FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM, AMPHAN OVER CENTRAL PARTS OF SOUTH BAY OF BENGAL BASED ON 0900 UTC OF 17<sup>TH</sup> MAY, 2020**



DATE/TIME IN UTC  
 IST = UTC + 0530 HRS  
 D: DEPRESSION  
 DD: DEEP DEPRESSION  
 CS: CYCLONIC STORM  
 SCS: SEVERE CYCLONIC STORM  
 VSCS: VERY SEVERE CYCLONIC STORM  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM

— OBSERVED TRACK  
 — FORECAST TRACK

**AREA OF MAXIMUM SUSTAINED WIND**

MSW(knot)/kmph	Impact	Action
28-33 (62-61)	Very rough seas	Total suspension of fishing operations
34-40 (62-74)	High to very high seas	Total suspension of fishing operations
41-53 (75-117)	Very High seas	Total suspension of fishing operations
≥ 54 (≥118)	Phenomenal	Total suspension of fishing operations