

India Meteorological Department Earth System Science Organisation (Ministry of Earth Sciences)

BULLETIN NO.: 16 (BAY OF BENGAL 01/2020)

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

The Very Severe Cyclonic Storm 'AMPHAN' (pronounced as UM-PUN) over central parts of South Bay of Bengal moved north-northeastwards with a speed of 13 kmph during past 06 hours, intensified into an Extremely Severe Cyclonic Storm and lay centred at 0230 hrs IST of today, the 18th May, 2020 over central parts of South Bay of Bengal and adjoining central Bay of Bengal near latitude 12.9°N and longitude 86.4°E, about 820 km nearly south of Paradip (Odisha), 980 km south-southwest of Digha (West Bengal) and 1090 km south-southwest of Khepupara (Bangladesh). It is very likely to intensify further during next 06 hours. It is very likely to move 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 20th May 2020 as a Very Severe Cyclonic Storm.

Forecast track and intensity are given in the following table:

Date/Time(IST)		Maximum sustained surface	Category of cyclonic
	(Lat. ⁰N/ long. ºE)	wind speed (Kmph)	disturbance
18.05.20/0230	12.9/86.4	160-170 gusting to 190	Extremely Severe Cyclonic Storm
18.05.20/0530	13.5/86.5	170-180 gusting to 200	Extremely Severe Cyclonic Storm
18.05.20/1130	14.0/86.6	180-190 gusting to 210	Extremely Severe Cyclonic Storm
18.05.20/1730	14.6/86.7	190-200 gusting to 220	Extremely Severe Cyclonic Storm
18.05.20/2330	15.2/86.8	200-210 gusting to 230	Extremely Severe Cyclonic Storm
19.05.20/1130	16.7/87.2	200-210 gusting to 230	Extremely Severe Cyclonic Storm
19.05.20/2330	18.5/87.7	200-210 gusting to 230	Extremely Severe Cyclonic Storm
20.05.20/1130	21.7/88.3	170-180 gusting to 200	Extremely Severe Cyclonic Storm
20.05.20/2330	22.6/88.7	135-145 gusting to 160	Very Severe Cyclonic Storm
21.05.20/1130	23.8/88.9	85-95 gusting to 105	Severe Cyclonic Storm
21.05.20/2330	26.0/89.3	50-60 gusting to 70	Deep Depression

(1) Heavy rainfall Warning:

Odisha

Coastal Odisha is likely to experience light to moderate rainfall at many places from 18th May evening with heavy falls at isolated places over coastal Odisha (Gajapati, Ganjam, Puri, Jagatsinghpur & Kendrapara Districts) on 18th May, 2020. Rainfall at most places with heavy to very heavy rainfall at a few places over north coastal Odisha (Jagatsinghpur, Kendrapara, Jajpur, Bhadrak, Balasore & Mayurbhanj Districts) on 19th May and isolated heavy rainfall over north Odisha (Bhadrak, Balasore, Mayurbhanj, Jajpur, Kendrapara and Keonjhar Districts) on 20th May 2020.

West Bengal

Coastal districts of Gangetic West Bengal (East Medinipur, South & North 24 Parganas) are likely to experience light to moderate rainfall at many places with heavy falls at isolated places on 19th May. Rainfall at most places with heavy to very heavy falls at a few places & extremely heavy falls at isolated places likely over Gangetic West Bengal (east & west Medinipur, south & north 24 Parganas, Howrah, Hoogli, Kolkata and adjoining districts) on 20th May.

(2) Wind warning

West Bengal & Odisha

- Squally wind speed reaching 45 to 55 kmph gusting to 65 kmph is likely to commence along and
 off south Odisha coast from 18th evening, extend to along & off north Odisha coast from 19th
 morning and along and off West Bengal coast from 19th afternoon.
- 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 (Jagatsinghpur, Kendrapara, Bhadrak, Balasore and Mayurbhanj districts) and West Bengal (east & west Medinipur, south & north 24 Parganas, Howrah, Hoogli, Kolkata Districts). It will gradually increase thereafter becoming 110 to 120 kmph gusting to 135 kmph along & off the above mentioned districts of North Odisha and 120 to 140 kmph gusting to 155 kmph along & off the above districts of West Bengal from the afternoon of 20th May 2020.
- 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 125-135 gusting to 150 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 18th morning, 170-180 gusting to 200 kmph over northern parts of central Bay of Bengal and adjoining North Bay of Bengal on 19th, and 155-165 gusting to 180 kmph over north Bay of Bengal during 20th May.

(3) 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 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.

(4) Fishermen Warning

- The fishermen are advised not to venture into south Bay of Bengal during next 24 hours, to central Bay of Bengal on 18th May and into North Bay of Bengal during 18th to 20th May 2020.
- Also, fishermen are advised not to venture into North Bay of Bengal along and off North Odisha,
 West Bengal and adjoining Bangladesh coasts during 18th to 20th May 2020.

(5) Storm Surge expected

Storm Surge of about 3 meters above Astronomical Tide is likely to inundate low lying areas
of south & north 24 Parganas and 2-3 meters over the low lying areas of East Medinipur
District of West Bengal during the time of Landfall.

(6) Damage Expected and Action suggested

(a) West Bengal (east Medinipur, south & north 24 Parganas, Howrah, Hoogli, Kolkata districts)

Damage Expected:

- Extensive damage to all types of kutcha houses, some damage to old badly managed Pucca structures. Potential threat from flying objects.
- Extensive uprooting of communication and power poles.
- Disruption of rail/road link at several places.
- Extensive damage to standing crops, plantations, orchards.
- · Blowing down of Palm and coconut trees.
- Uprooting of large bushy trees.
- Large boats and ships may get torn from their moorings.

Fishermen Warning & Action Suggested:

- Total suspension of fishing operations during 18th to 20th May 2020.
- Diversion or suspension of rail and road traffic.
- People in affected areas to remain indoors. Mobilise evacuation from Low lying areas.
- Movement in motor boats and small ships not advisable.

(b) Odisha (Jagatsinghpur, Kendrapara, Bhadrak, Balasore, Jajpur & Mayurbhanj)

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 18th to 20th May 2020.
- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.
- Movement in motor boats and small ships unsafe.
- Small Fishing Boats may get detached and damaged from their moorings.

Kindly visit www.rsmcnewdelhi.imd.gov.in and www.mausam.imd.gov.in for updates on the system.

Next Bulletin will be issued at 0830 hours IST of 18th May, 2020.

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Copy to: CRS, Pune/ ACWC Chennai/ ACWC Kolkata/CWC Bhubaneswar/ /CWC Visakhapatnam

SAT: INSAT-3D IMG 17-05-2020/(2230 to 2256) GMT IMG_TIR1_TEMP 10.8 um 18-05-2020/(0400 to 0426) IST L1C Mercator 28°N 26°N 24°N 22°N 20°N 18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N 100°E 94°E 76°E 78°E 80°E 82°E 84°E 86°E 88°E 92°E 96°E 98°E Celsius -20 -50 IMD,DELHI 10 -10 -30 -70

