



**India Meteorological Department
(Ministry of Earth Sciences)**

HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'YAAS'

BULLETIN NO. 01

DATE: 25-05-2021

TIME OF ISSUE: 2200 HRS IST

DATE/TIME (IST) OF OBSERVATION	BASED ON 25-05-2021 (2030 HRS IST)
LOCATION LATITUDE/LONGITUDE	THE VERY SEVERE CYCLONIC STORM 'YAAS' (PRONOUNCED AS 'YASS') LAY CENTRED AT 2030 HRS IST OF THE 25 TH MAY, 2021 OVER NORTHWEST BAY OF BENGAL NEAR LATITUDE 19.8°N AND LONGITUDE 87.9°E, ABOUT 140 KM EAST-SOUTHEAST OF PARADIP, 220 KM SOUTH-SOUTHEAST OF BALASORE , 210 KM SOUTH-SOUTHEAST OF DIGHA AND 210 KM SOUTH OF SAGAR ISLANDS.
CURRENT INTENSITY NEAR CENTRE	125-135 KMPH GUSTING TO 150 KMPH
PAST MOVEMENT	MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 13 KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT AND INTENSITY	IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS, INTENSIFY FURTHER AND REACH NEAR NORTH ODISHA COAST CLOSE TO DHAMRA PORT BY THE EARLY MORNING OF WEDNESDAY, THE 26 TH MAY. IT IS VERY LIKELY TO CROSS NORTH ODISHA-WEST BENGAL COASTS BETWEEN PARADIP AND SAGAR ISLANDS CLOSE TO NORTH OF DHAMRA AND SOUTH OF BALASORE, DURING NOON OF WEDNESDAY, THE 26TH MAY AS A VERY SEVERE CYCLONIC STORM.
FORECAST RAINFALL	ODISHA: LIGHT TO MODERATE RAINFALL AT MANY PLACES WITH HEAVY TO VERY HEAVY RAINFALL AND EXTREMELY HEAVY RAINFALL (≥ 20 CM) IN JAGATSINGHPUR, KENDRAPARA, BHADRAK, BALASORE DISTRICTS, HEAVY TO VERY HEAVY RAINFALL OVER PURI, KHURDA, CUTTACK, JAJPUR, MAYURBHANJ AND HEAVY OVER GANJAM, DHENKANAL, KEONJHARGARH DISTRICTS ON 25 TH , HEAVY TO VERY HEAVY RAINS AT A FEW PLACES WITH EXTREMELY HEAVY FALLS AT ISOLATED PLACES IN JAGATSINGHPUR, KENDRAPARA, JAJPUR, BHADRAK, BALASORE, MAYURBHANJ, CUTTACK, DHENKANAL, KEONJHARGARH AND HEAVY FALLS AT ISOLATED PLACES IN PURI, KHURDA, ANGUL, DEOGARH, SUNDERGARH ON 26 TH MAY. WEST BENGAL: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL OVER MEDINIPUR, SOUTH 24 PARGANAS AND HEAVY RAINFALL AT ISOLATED PLACES IN HOWRAH, HOOGHLY, KOLKATA & NORTH 24 PARGANAS DISTRICTS ON 25 TH , EXTREMELY HEAVY

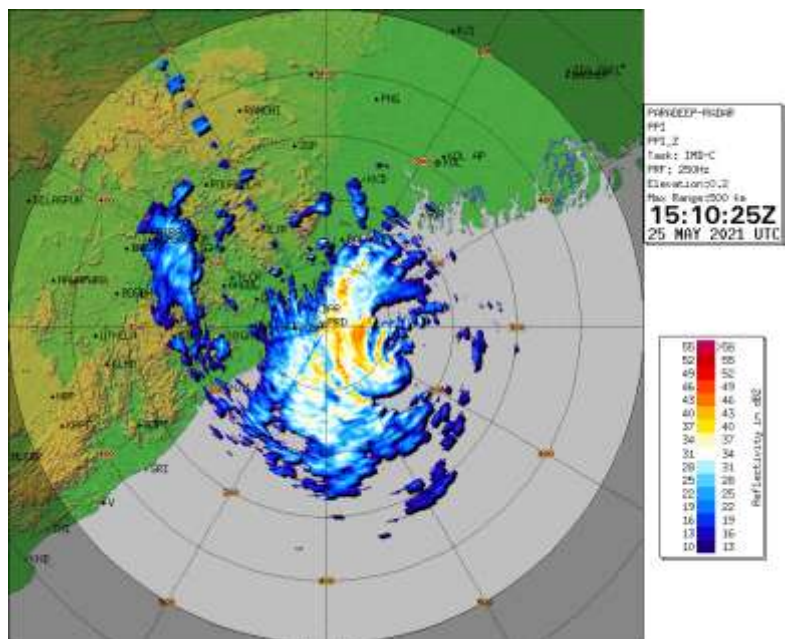
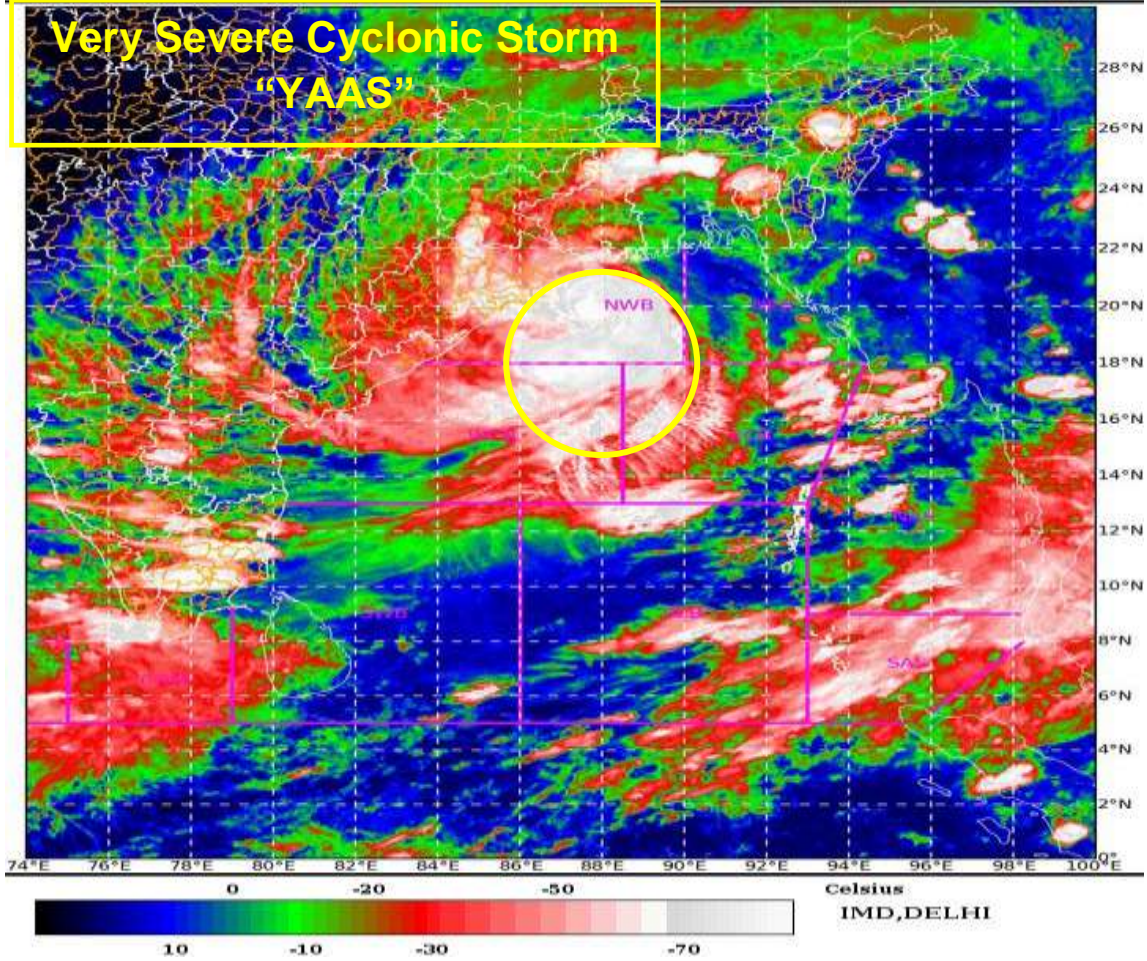
	<p>RAINFALL AT ISOLATED PLACES OVER MEDINIPUR AND HEAVY TO VERY HEAVY RAINFALL AT ISOLATED PLACES OVER JHARGRAM, BANKURA, SOUTH 24 PARGANAS AND HEAVY FALLS AT ISOLATED PLACES OVER PURULIA, NADIA, MURSHIDABAD, EAST BARDHAMAN, HOWRAH, HOOGHLY, KOLKATA, NORTH 24 PARGANAS, HALDIA, DARJEELING, KALIMPONG DISTRICTS ON 26TH MAY..</p> <p>JHARKHAND: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY RAINFALL AT ISOLATED PLACES ON 25TH MAY, HEAVY TO VERY HEAVY RAINFALL AND EXTREMELY HEAVY FALLS AT ISOLATED PLACES ON 26TH & 27TH MAY.</p>
<p>FORECAST WIND SPEED (KMPH)</p>	<p>GALE WINDS SPEED REACHING 115-125 KMPH GUSTING TO 140 KMPH IS PREVAILING OVER MAJOR PARTS OF NORTH BAY OF BENGAL & ADJOINING CENTRAL BAY OF BENGAL AND WOULD INCREASE GRADUALLY BECOMING 155-165 GUSTING TO 180 KMPH FROM 26TH MAY EARLY MORNING.</p> <p>SQUALLY WIND SPEED REACHING 60-70 KMPH GUSTING 80 KMPH IS PREVAILING OVER NORTH BAY OF BENGAL AND ALONG AND OFF NORTH ANDHRA PRADESH-ODISHA-WEST BENGAL-BANGLADESH COASTS. IT WOULD FURTHER INCREASE BECOMING 75-85 KMPH GUSTING TO 95 KMPH OVER NORTHWEST BAY OF BENGAL AND ALONG & OFF NORTH ODISHA AND ADJOINING WEST BENGAL COASTS INCLUDING JAGATSINGHPUR, KENDRAPARA, PURI, BHADRAK, BALASORE OF ODISHA AND EAST MEDINIPUR, SOUTH 24 PARGANAS, KOLKATA DISTRICTS OF WEST BENGAL FROM TONIGHT. SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING 70 KMPH WOULD PREVAIL OVER GANJAM, KHURDA, CUTTACK, JAJPUR & MAYURBHANJ DISTRICTS OF ODISHA AND HOWRAH, HOOGHLY, NORTH 24 PARGANAS DISTRICTS OF WEST BENGAL FROM 26TH MORNING.</p> <p>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, FROM EARLY MORNING OF 26TH MAY AND WILL EXTEND TO BALASORE DISTRICT OF ODISHA FROM THE FORENOON OF 26TH MAY, 120-130 KMPH GUSTING TO 145 KMPH OVER MAYURBHANJ DISTRICT OF ODISHA FROM EARLY MORNING OF 26TH MAY. GALE WIND SPEED REACHING 80-90 KMPH GUSTING TO 100 KMPH WOULD PREVAIL OVER PURI, CUTTACK, KHURDA, JAJPUR AND NAYAGARH DISTRICTS OF ODISHA DURING SAME PERIOD. THE WIND SPEED REACHING 60-80 KMPH GUSTING TO 90 KMPH WOULD PREVAIL ALONG AND OFF GANJAM AND REMAINING INTERIOR DISTRICTS OF NORTH ODISHA DURING THE SAME PERIOD.</p> <p>SQUALLY WIND SPEED REACHING 60-80 KMPH GUSTING TO 90 KMPH WOULD PREVAIL OVER GANJAM, DHENKANAL AND KEONJHAR DISTRICTS OF ODISHA AND BANKURA, PURULIA, HOWRAH, HOOGHLY, NADIA & BURDHAMAN DISTRICTS OF WET BENGAL FROM 26TH EARLY HOURS. SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH WOULD PREVAIL OVER ANGUL, DEOGARH & SUNDERGARH DISTRICTS OF ODISHA, BIRBHUM & MURSHIDABAD DISTRICTS OF WEST BENGAL AND SRIKAKULAM, VIJAYANAGARAM & VISHAKHAPATNAM DISTRICTS OF ANDHRA PRADESH DURING</p>

	<p>SAME PERIOD.</p> <p>40-50 KMPH GUSTING 60 KMPH IS VERY LIKELY TO PREVAIL OVER SOUTH JHARKHAND FROM 26TH FORENOON AND INCREASE GRADUALLY BECOMING 90-120 KMPH GUSTING TO 130 KMPH OVER SOUTHEAST JHARKHAND AND 70-80 KMPH GUSTING TO 90 KMPH OVER SOUTHWEST JHARKHAND DURING 26TH EVENING / NIGHT.</p> <p>SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH WOULD PREVAIL OVER KENDRAPARA, BHADRAK, BALASORE, KEONJHARGARH, MAYURBHANJ, DEOGARH, SUNDERGARH DISTRICTS OF ODISHA AND WEST MEDINIPUR, JHARGRAM, BANKURA, PURULIA DISTRICTS OF WEST BENGAL ON 27TH.</p>
FORECAST STORM SURGE	<p>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 MEDINIPUR, SOUTH 24 PARGANAS, KENDRAPARA & JAGATSINGHPUR DISTRICTS AROUND THE TIME OF LANDFALL.</p>
REALISED WEATHER	<p>WIND REPORTED AT 2030 HOURS IST OF 25.05.2021 IN KMPH: 65-75 KMPH GUSTING To 85 KMPH PREVAILS ALONG AND OFF NORTH ODISHA COAST. PARADIP- 28, BHUBANESHWAR-28, BALASORE-18, GOPALPUR-18, PURI-18 AND CHANDBALI-18.</p> <p>RAINFALL IN CM (REPORTED DURING 0830 HOURS IST OF 25.05.2021 TO 2030 HOURS IST OF 25.05.2021): ODISHA:- CHANDABALI- 6.3, PARADIP-5.2, BHUBANESHWAR-1.3 AND PURI-1.1. WEST BENGAL: DIGHA-1.5.</p>

SAT : INSAT-3D IMG 25-05-2021/(1300 to 1326) GMT
 IMG_TIR1_TEMP 10.8 um 25-05-2021/(1830 to 1856) IST
 L1C Mercator

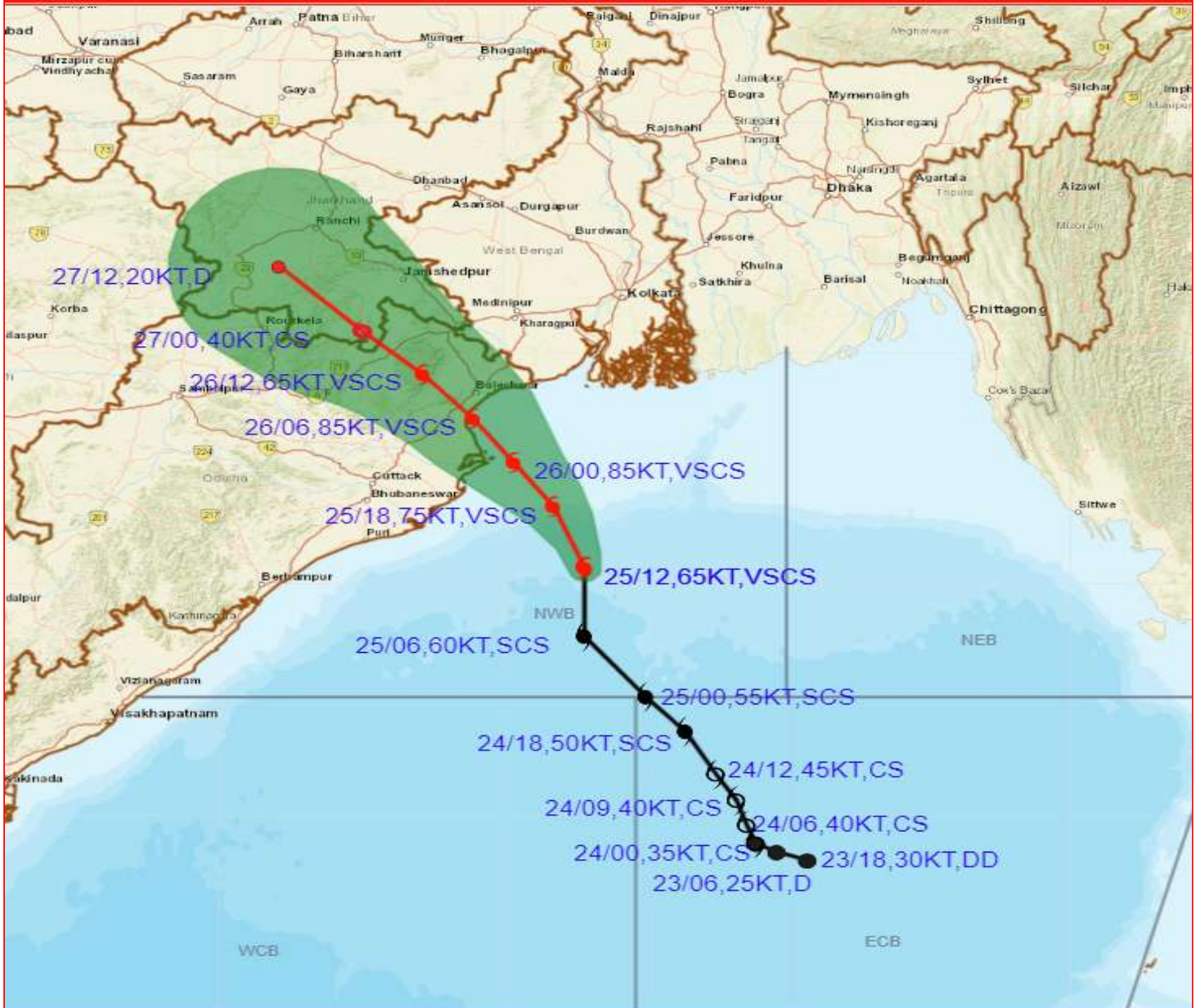


**Very Severe Cyclonic Storm
 "YAAS"**





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "YAAS" OVER NORTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 25th MAY, 2021



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT

⊙ 34-47 KT

⊙ \geq 48 KT

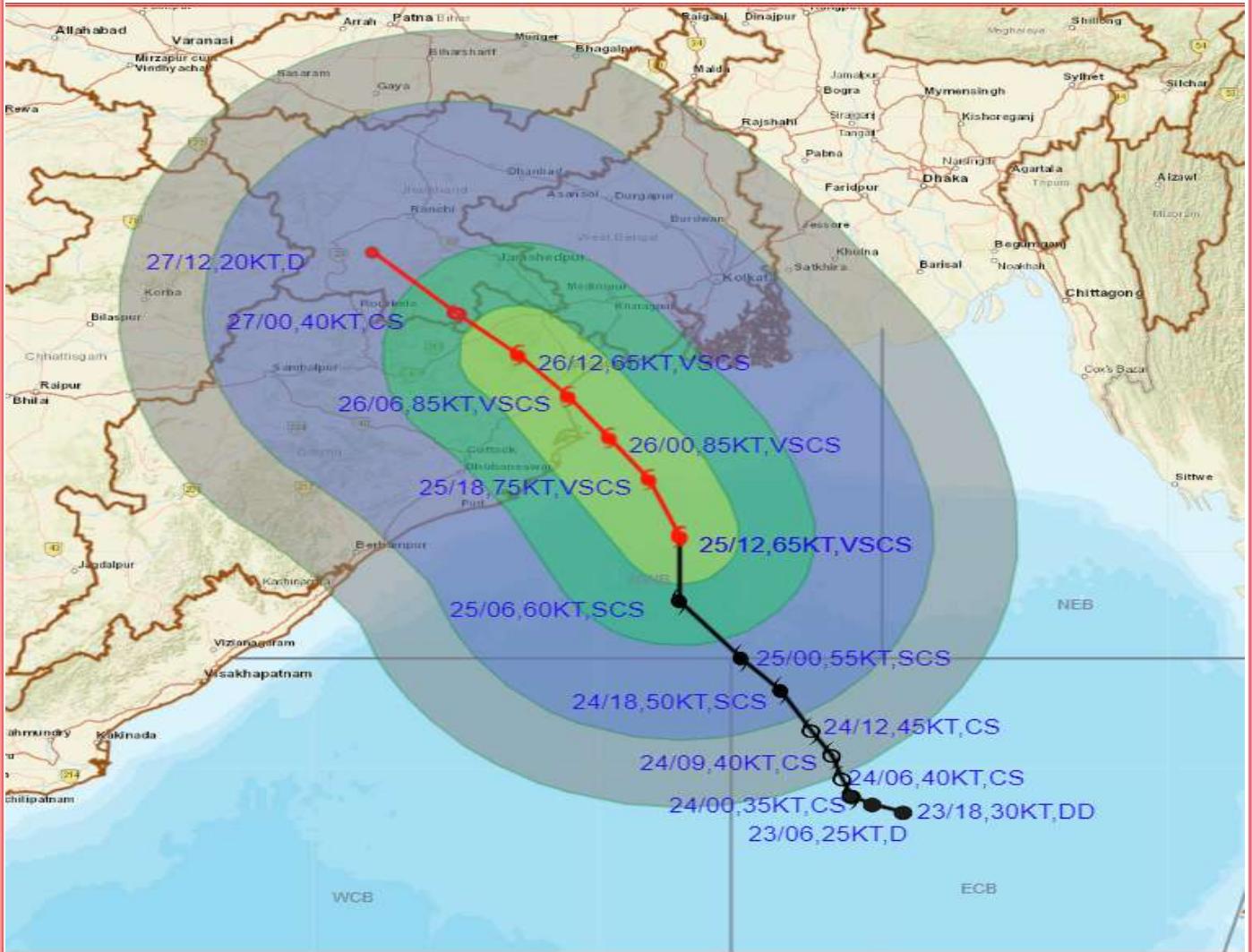
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "YAAS" OVER NORTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 25th MAY,



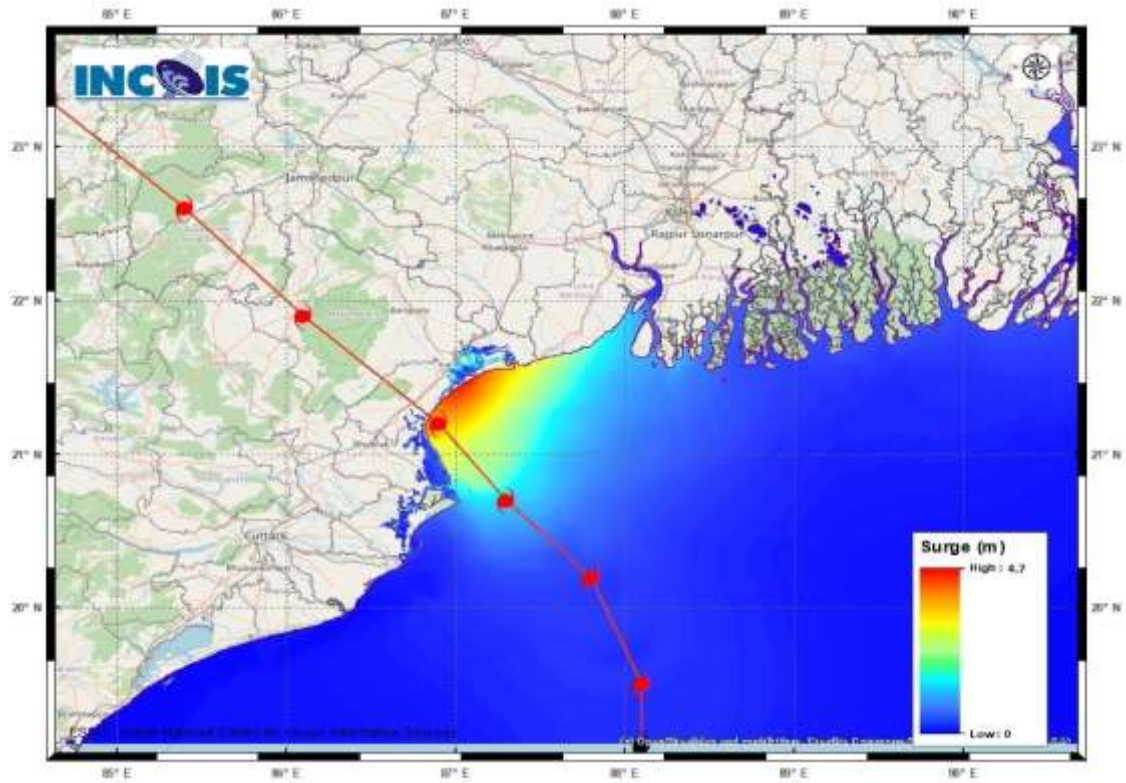
DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ⦿ \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- \geq 64 KT (\geq 118 KMPH)

IMPACT OVER THE SEA

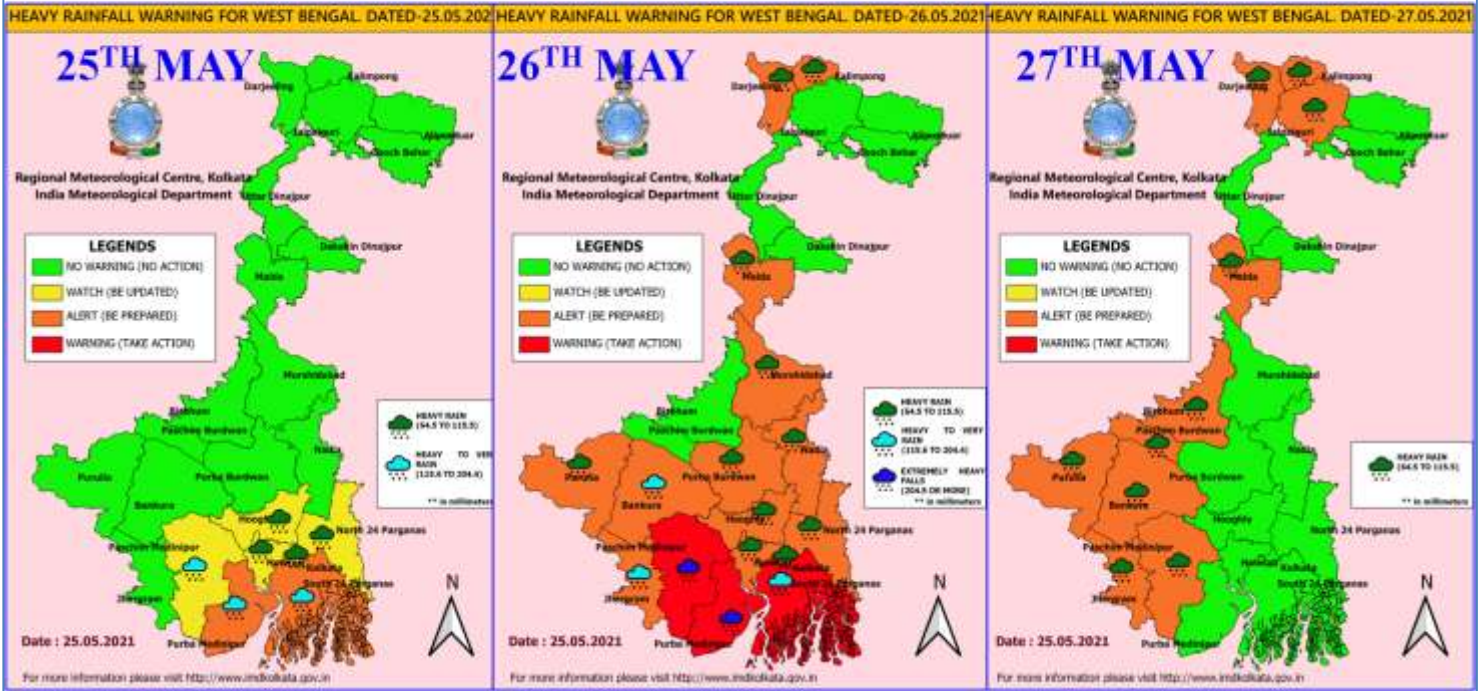
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations

Storm Surge Forecast around the time of Landfall:

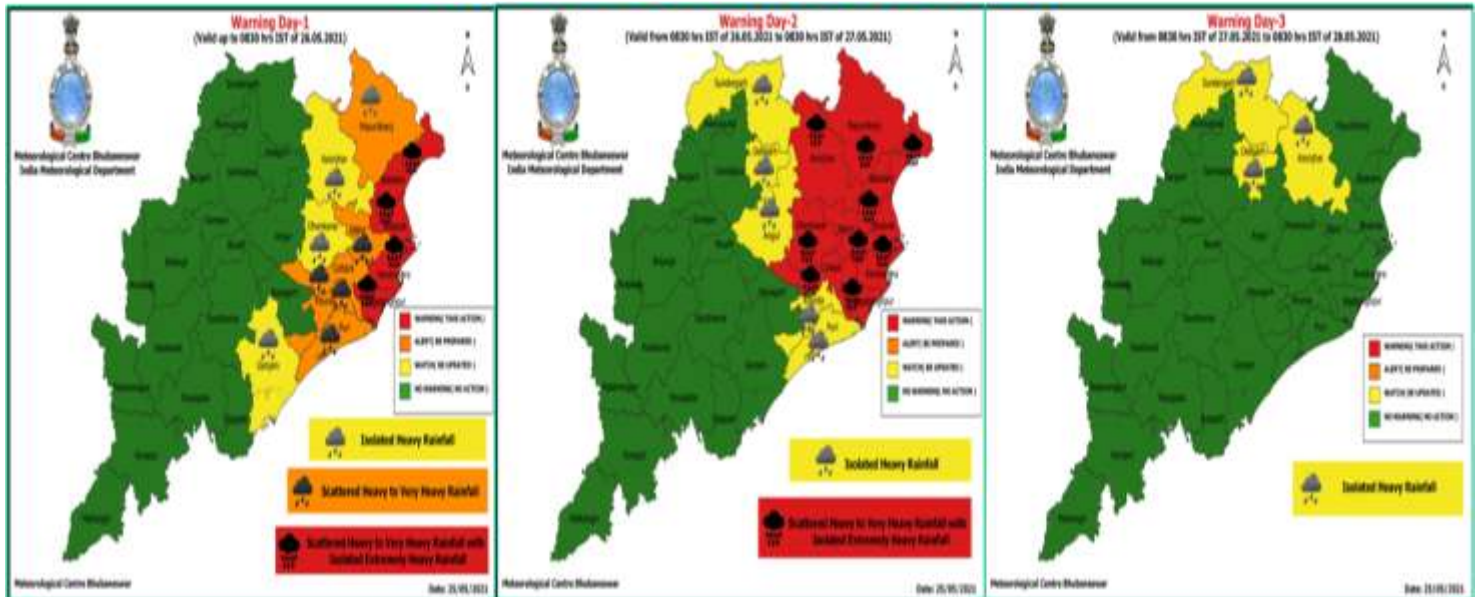


MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Baleshwar	Baleshwar	Odisha	Kumbhargari	2.2-4.7	Upto 3.53
Bhadrak	Bhadrak	Odisha	Mohanpur	1.5-3.9	Upto 9.00
Jagatsinghpur	Jagatsinghpur	Odisha	Musadia	0.3-0.5	Upto 0.28
Kendraparha	Kendrapara	Odisha	Tikayat Nagar	0.2-1.7	Upto 5.47
Kanhi	Purba Medinipur	West Bengal	Safar Chata	0.5-2.9	Upto 1.50
Diamond Harbour	South 24 Parganas	West Bengal	Chakloknath	0.2-1.2	Upto 0.78
Basirhat	North 24 Parganas	West Bengal	Amlamethi	0.3-1.0	Upto 0.37
Tamluk	Purba Medinipur	West Bengal	Jamitta	0.3-1.3	Upto 0.42
Uluberiya	Haora	West Bengal	Denanchar Orphuli Char	0.3-0.5	Upto 0.42

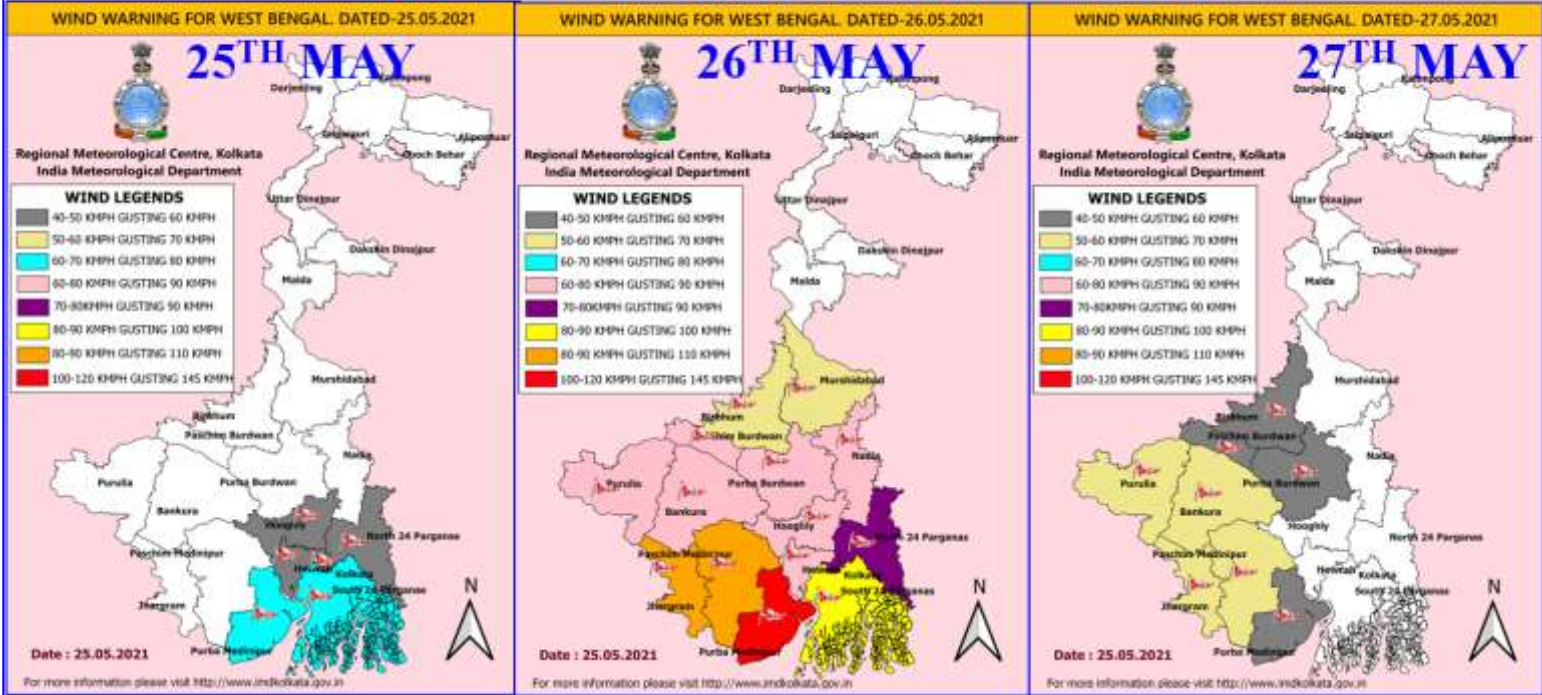
Rainfall warning for West Bengal & Sikkim



Rainfall forecast Odisha



Wind warning for West Bengal



Wind warning for Odisha

