



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

HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'YAAS'

BULLETIN NO. 15

DATE: 26-05-2021

TIME OF ISSUE: 1100 HRS IST

DATE/TIME (IST) OF OBSERVATION	BASED ON 26-05-2021 (1030 HRS IST)
LOCATION LATITUDE/LONGITUDE	THE VERY SEVERE CYCLONIC STORM 'YAAS' (PRONOUNCED AS 'YASS') LAY CENTRED AT 1030 HRS IST OF THE 26 TH MAY, 2021 OVER NORTHWEST BAY OF BENGAL NEAR LATITUDE 21.3°N AND LONGITUDE 86.95°E, ABOUT 25 KM SOUTH OF BALASORE.
CURRENT INTENSITY NEAR CENTRE	130-140 KMPH GUSTING TO 155 KMPH
PAST MOVEMENT	MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF ABOUT 14 KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT AND INTENSITY	LATEST OBSERVATIONS INDICATE THAT THE SYSTEM IS NOW CROSSING COAST TO THE SOUTH OF BALASORE. THE LANDFALL PROCESS WILL TAKE ABOUT 2 HOURS TO COMPLETE. THE SYSTEM WOULD CROSS NORTH ODISHA-WEST BENGAL COASTS TO THE SOUTH OF BALASORE WITHIN NEXT 02 HOURS AS A VERY SEVERE CYCLONIC STORM WITH WIND SPEED OF 130-140 KMPH GUSTING TO 155 KMPH.
FORECAST RAINFALL	ODISHA: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH 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 EXTREMELY HEAVY 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 26 TH MAY.. JHARKHAND: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL AND EXTREMELY HEAVY FALLS AT ISOLATED PLACES ON 26 TH &

	27 TH MAY.
FORECAST WIND SPEED (KMPH) DURING LANDFALL	130-140 KMPH GUSTING TO 155 KMPH ALONG AND OFF BHADRAK AND BALASORE DISTRICTS AND 100-110 KMPH GUSTING TO 120 KMPH ALONG AND OFF KENDRAPARA DISTRICT AT THE TIME OF LANDFALL. WINDSPEED WILL DECREASE GRADUALLY AFTER LANDFALL BECOMING 65-75 KMPH GUSTING TO 85 KMPH BY EVENING.
FORECAST STORM SURGE	TIDAL WAVES OF HEIGHT 2-3 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.
REALISED WEATHER	WIND REPORTED AT 1030 HOURS IST OF 26.05.2021 IN KMPH: 80-90 KMPH GUSTING TO 100 KMPH IS PREVAILING ALONG AND OFF NORTH ODISHA COAST. 70-80 KMPH GUSTING TO 90 KMPH IS PREVAILING ALONG AND OFF ADJOINING WEST BENGAL COAST. WINDS REPORTED IN KMPH: ODISHA: BALASORE-56, CHANDBALI-46., PARADIP- 30, BHUBANESHWAR-35, PURI-22 AND WEST BENGAL: - DIGHA- 31.

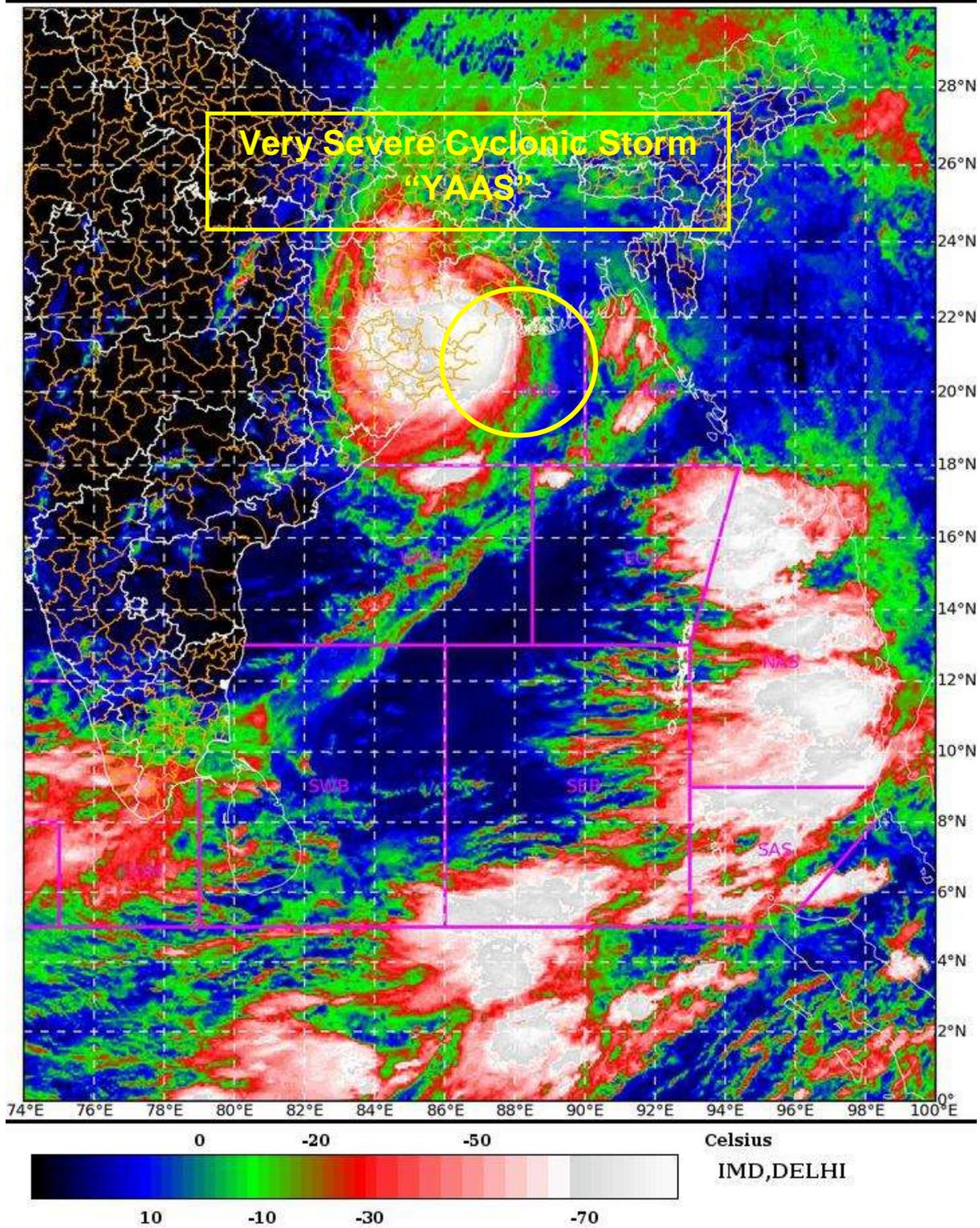
SAT : INSAT-3D IMG

26-05-2021/(0430 to 0457) GMT

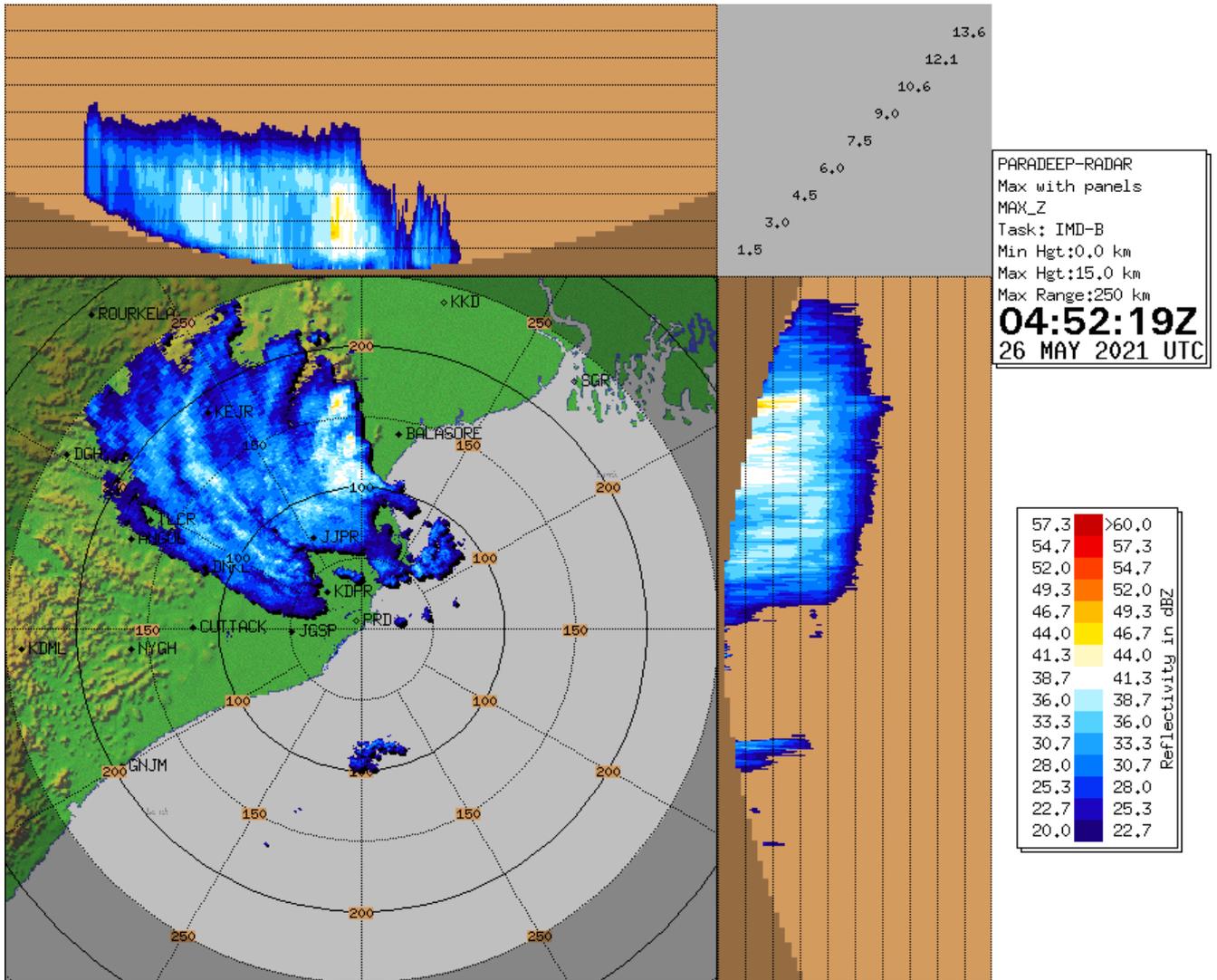
IMG_TIR1_TEMP 10.8 um

26-05-2021/(1000 to 1027) IST

L1C Mercator

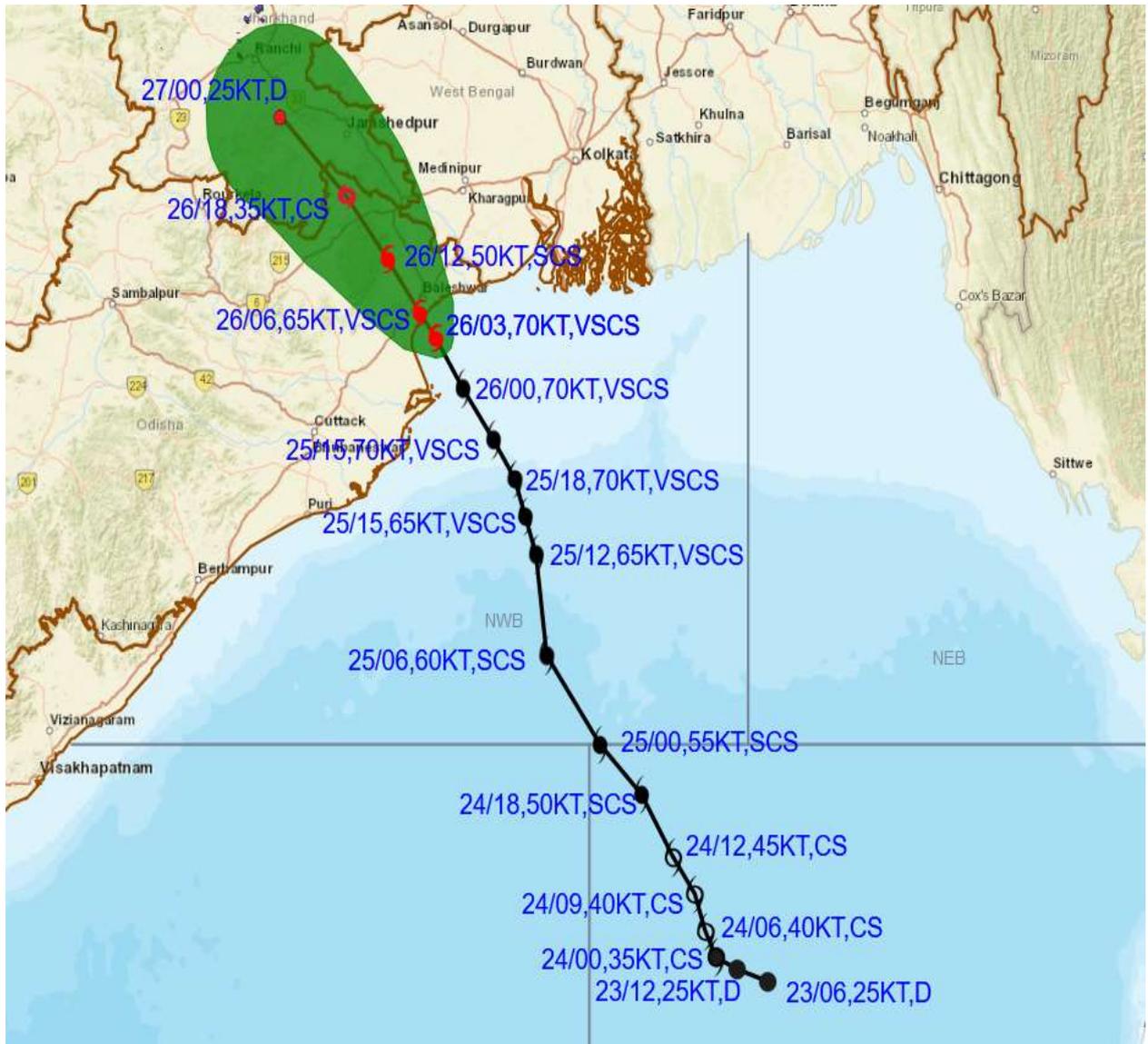


LATEST IMAGERY FROM DOPPLER WEATHER RADAR PARADIP





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "YAAS" OVER NORTHWEST BAY OF BENGAL BASED ON 0300 UTC OF 26th MAY, 2021

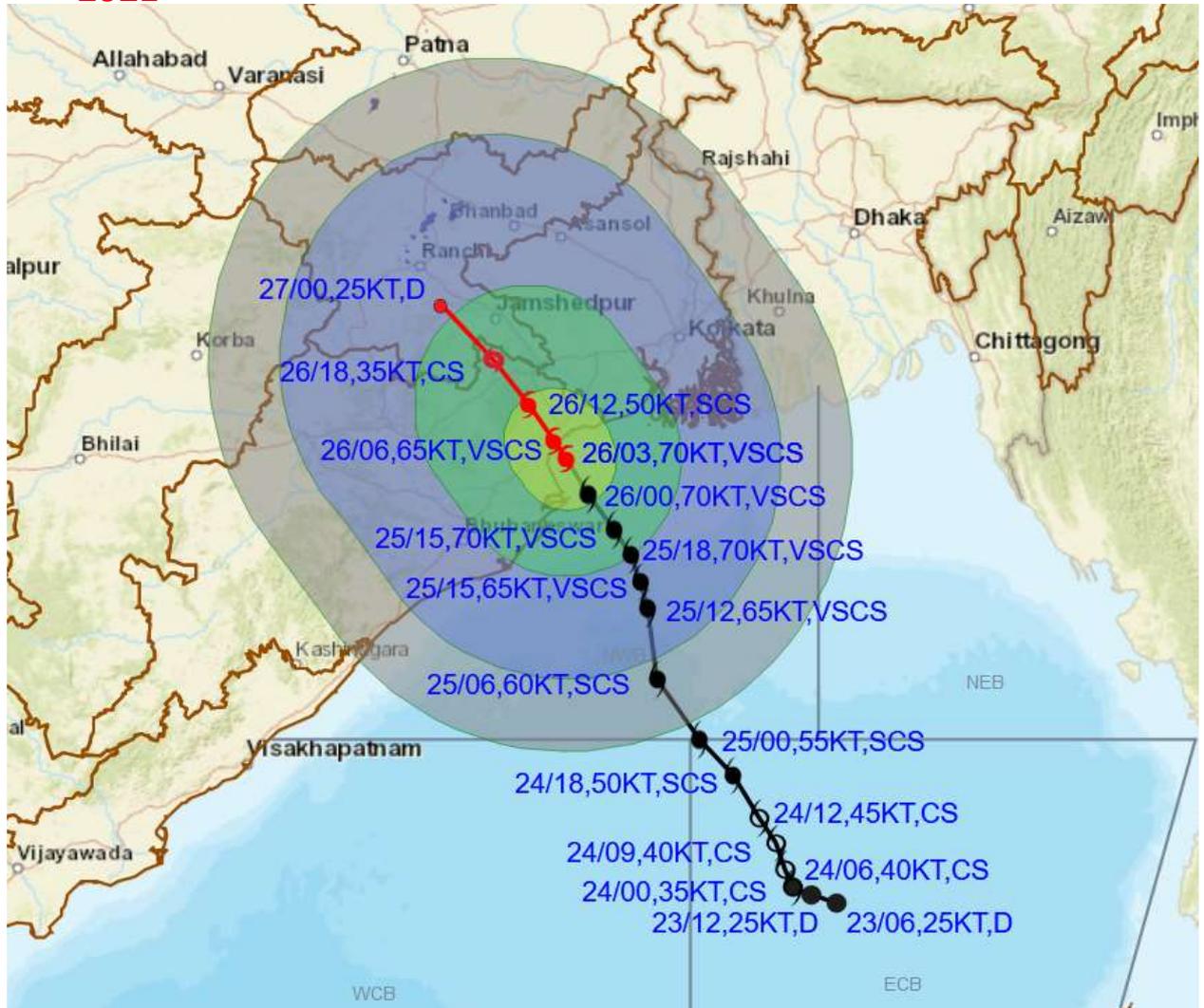


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119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

- LESS THAN 34 KT
- 34-47 KT
- ≥ 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 0300 UTC OF 26th MAY, 2021



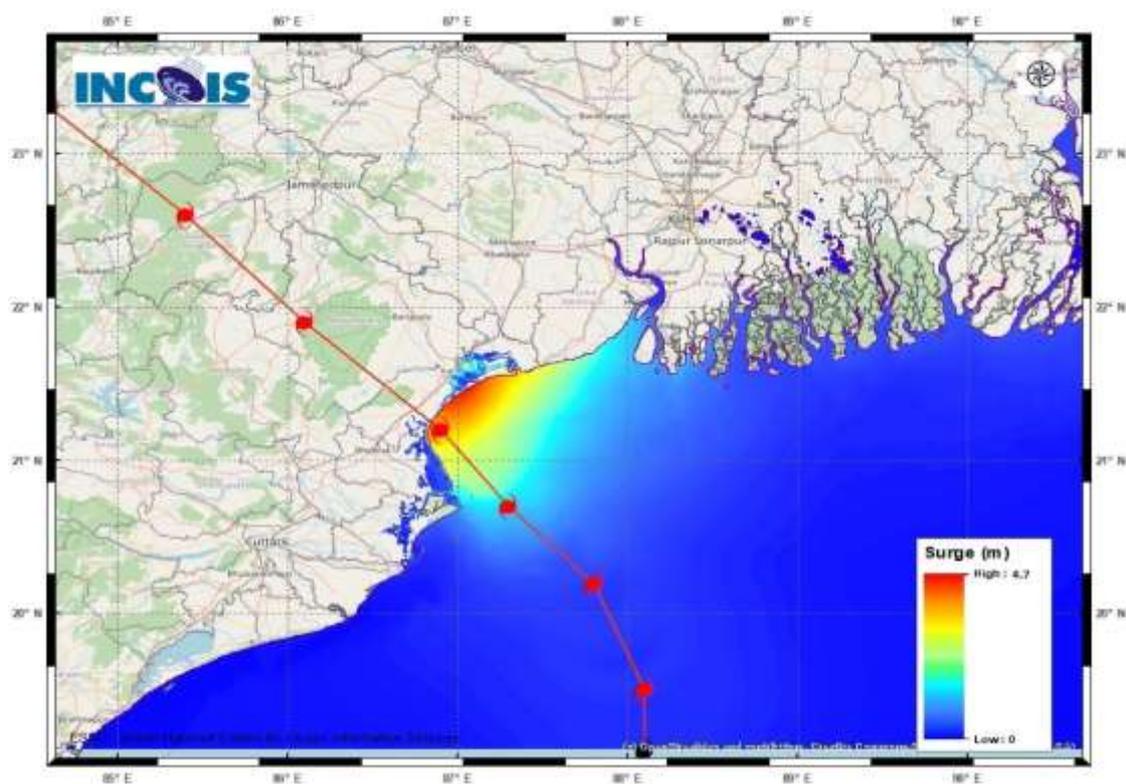
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

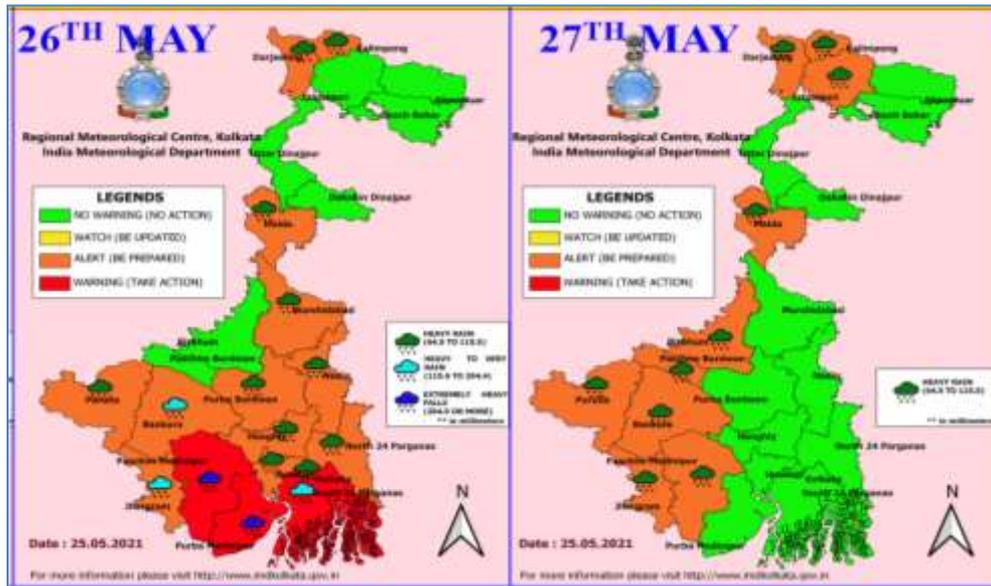
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing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

STORM SURGE FORECAST AROUND THE TIME OF
LANDFALL:

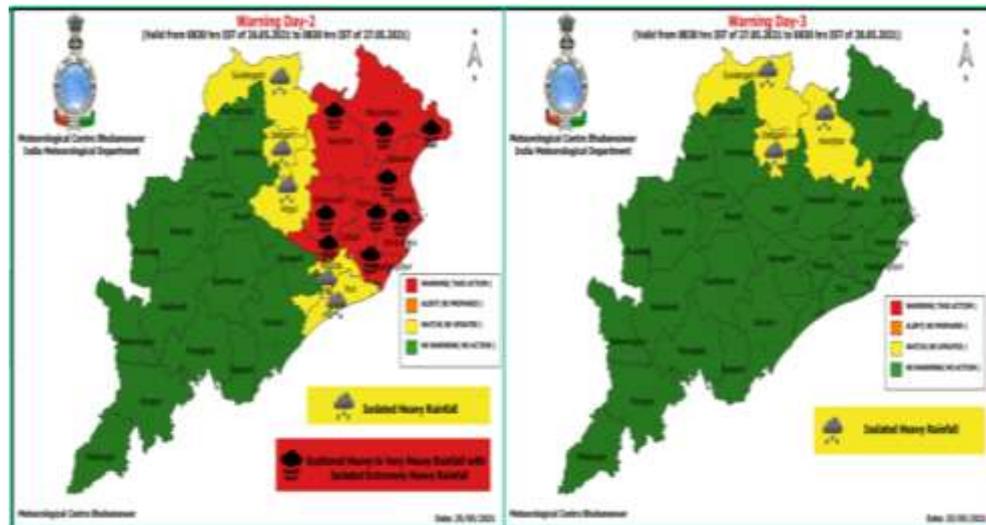


MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (M) *	EXPECTED INUNDATION EXTENT (KM)
BALESHWAR	BALESHWAR	ODISHA	KUMBHIRGARI	2.2-4.7	UPTO 3.53
BHADRAK	BHADRAK	ODISHA	MOHANPUR	1.5-3.9	UPTO 9.00
JAGATSINGHPUR	JAGATSINGHPUR	ODISHA	MUSADIA	0.3-0.5	UPTO 0.28
KENDRAPARHA	KENDRAPARA	ODISHA	TIKAYAT NAGAR	0.2-1.7	UPTO 5.47
KANTHI	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 ORPHULICHAR	0.3-0.5	UPTO 0.42

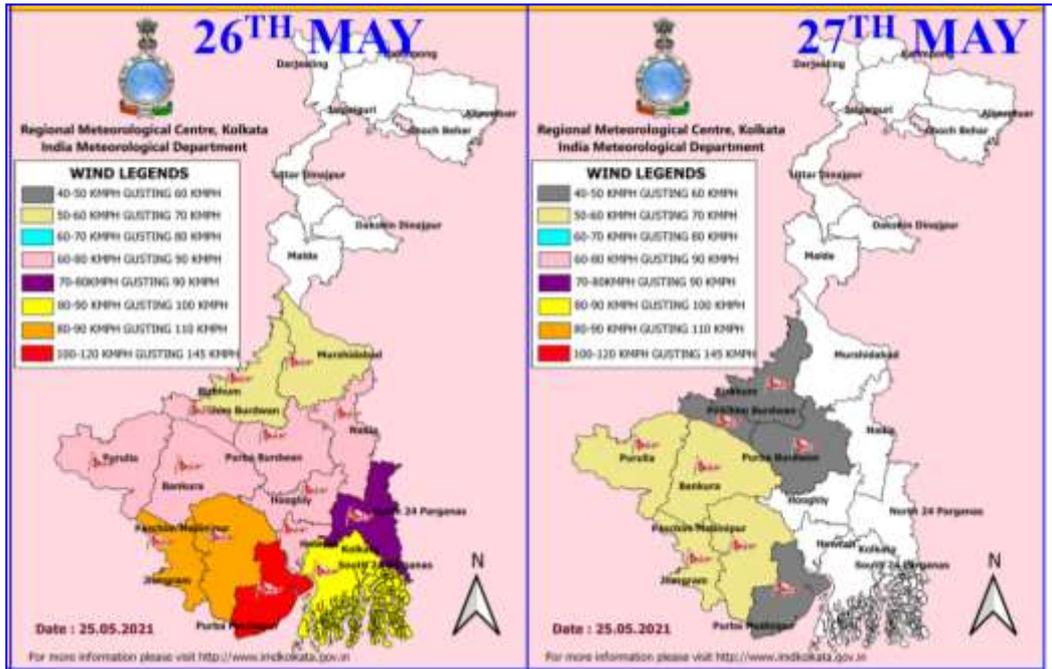
RAINFALL WARNING FOR WEST BENGAL



RAINFALL WARNING FOR ODISHA



WIND WARNING FOR WEST BENGAL



WIND WARNING FOR ODISHA

