



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

HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'YAAS'

BULLETIN NO. 01

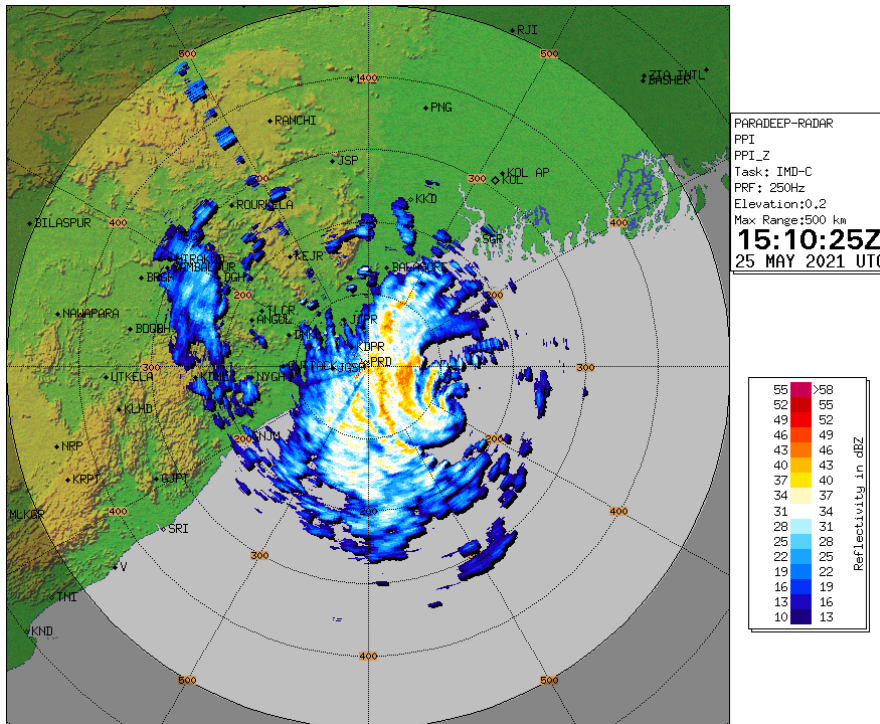
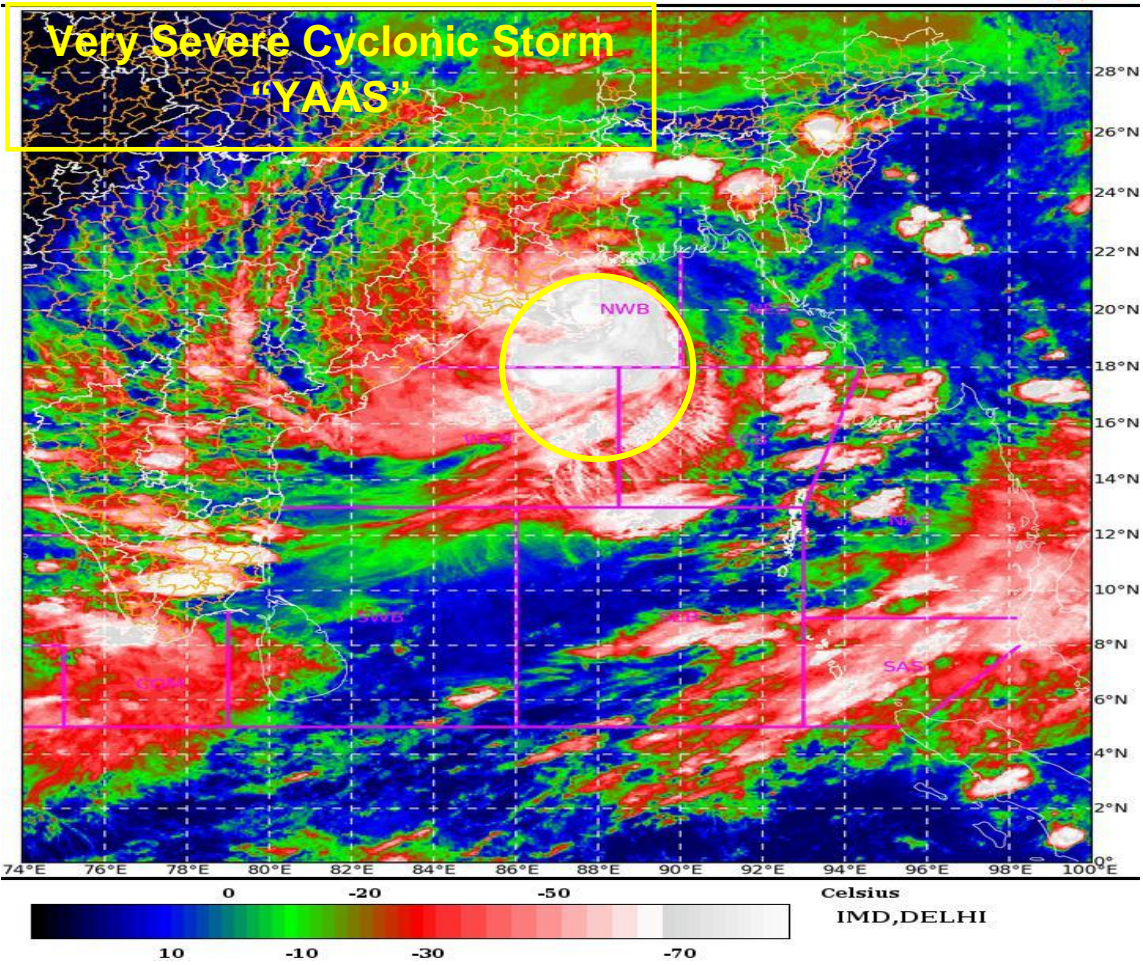
DATE: 25-05-2021

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	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.

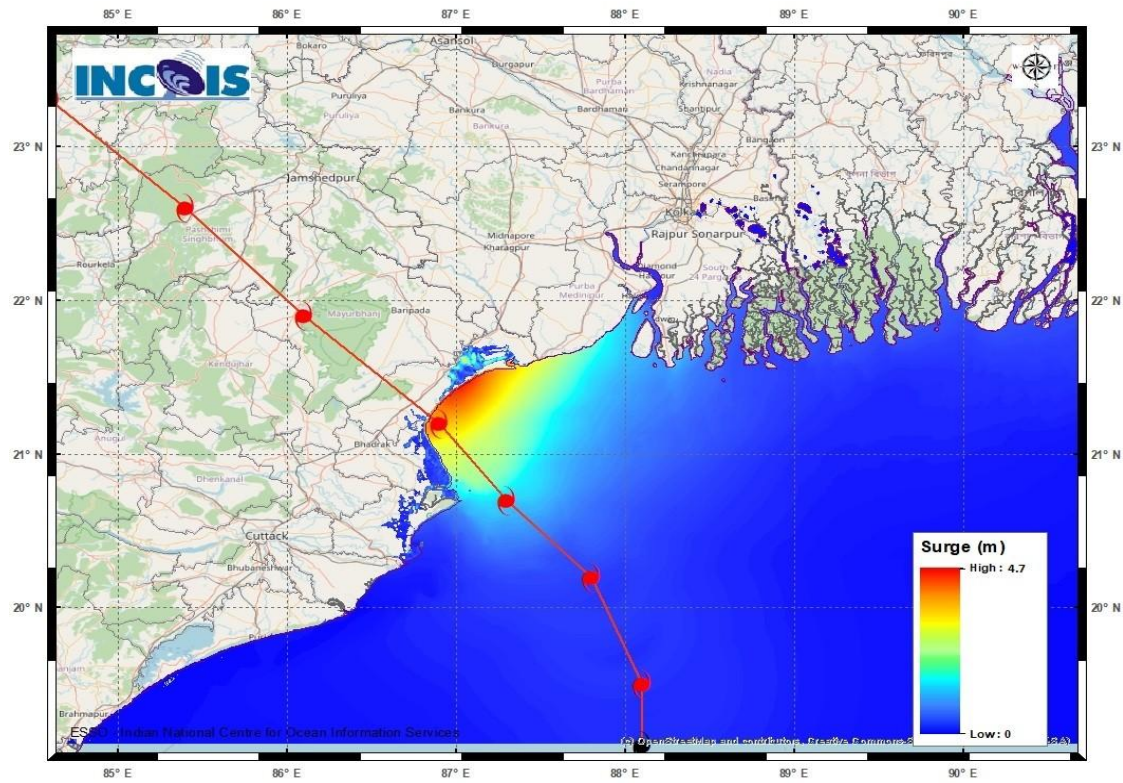
<p>FORECAST WIND SPEED (KMPH)</p>	<p>GALE WINDS SPEED REACHING 115-125 KMPH GUSTING TO 140 KMPH IS PREVAILING OVER MAJOR PARTS OF NORTH BAY OF BENGAL & ADJOINING CENTRAL BAY OF BENGAL AND WOULD INCREASE GRADUALLY BECOMING 155-165 GUSTING TO 180 KMPH FROM 26TH MAY EARLY MORNING.</p> <p>SQUALLY WIND SPEED REACHING 60-70 KMPH GUSTING 80 KMPH IS PREVAILING OVER NORTH BAY OF BENGAL AND ALONG AND OFF ODISHA–WEST BENGAL COASTS. IT WOULD FURTHER INCREASE BECOMING 75-85 KMPH GUSTING TO 95 KMPH OVER NORTHWEST BAY OF BENGAL AND ALONG & OFF NORTH ODISHA INCLUDING JAGATSINGHPUR, KENDRAPARA, PURI, BHADRAK, BALASORE OF ODISHA. SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING 70 KMPH WOULD PREVAIL OVER GANJAM, KHURDA, CUTTACK, JAJPUR & MAYURBHANJ DISTRICTS OF ODISHA 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 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 FROM 26TH EARLY HOURS. SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH WOULD PREVAIL OVER ANGUL, DEOGARH & SUNDERGARH DISTRICTS OF ODISHA.</p>
<p>FORECAST STORM SURGE</p>	<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 KENDRAPARA & JAGATSINGHPUR DISTRICTS AROUND THE TIME OF LANDFALL.</p>
<p>REALISED WEATHER</p>	<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.</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



Latest imagery from Doppler Weather RADAR Paradiip

Surge Forecast around the time of Landfall:



MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Baleswar	Baleswar	Odisha	Kumbhigari	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