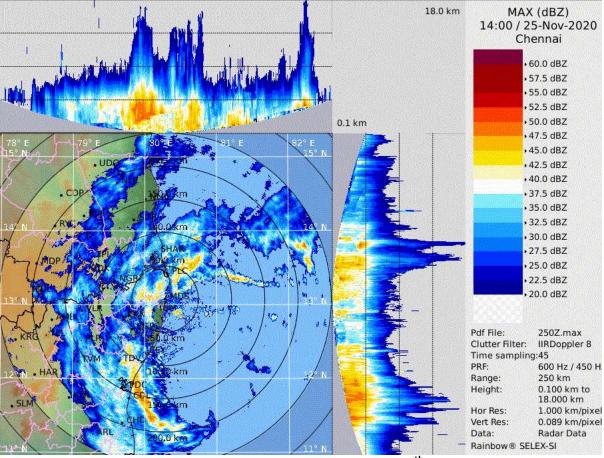


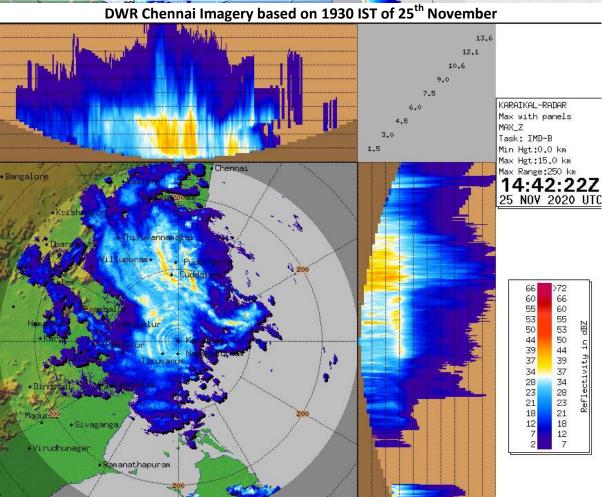
## India Meteorological Department Earth System Science Organisation (Ministry of Earth Sciences)

## HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM "NIVAR" BULLETIN NO. 03

DATE: 25-11-2020 TIME OF ISSUE: 2030 HRS IST

DATE/TIME (IST) OF OBSERVATION	1930 HRS IST OF 25-11-2020 / 1400 UTC OF 25.11.2020			
INTENSITY	VERY SEVERE CYCLONIC STORM WIND SPEED: 120-130 KMPH GUSTING TO 145 KMPH.			
LOCATION LATITUDE/LONGITUDE	OVER SOUTHWEST BAY OF BENGAL NEAR LAT. 11.6°N AND LONG. 80.5°E, ABOUT:  • 80 KM EAST-SOUTHEAST OF CUDDALORE.  • 85 KM EAST-SOUTHEAST OF PUDUCHERRY.  • 160 KM SOUTH-SOUTHEAST OF CHENNAI.			
PAST MOVEMENT	CENTRE MOVED NORTHWESTWARDS WITH A SPEED OF 14 KMPH DURING PAST 06 HOURS.			
OBSERVATIONS FROM THE COAST	WIND-SPEED (KMPH):  NAGAPATNAM-36, KARAIKAL-25, CUDDALORE-18, PUDUCHERRY-18 AND CHENNAI-18 KMPH.  RAINFALL (MM) DURING 08:30 TO 1930 HOURS IST OF 25 <sup>TH</sup> NOVEMBER 2020:  NAGAPATNAM-51, KARAIKAL-69, CUDDALORE-98, PUDUCHERRY-82 AND CHENNAI-69			
FORECAST MOVEMENT, INTENSITY AND LANDFALL	TO MOVE NORTHWESTWARDS AND CROSS TAMIL NADU AND PUDUCHERRY COASTS BETWEEN KARAIKAL AND MAMALLAPURAM AROUND PUDUCHERRY DURING MID-NIGHT OF 25 <sup>TH</sup> AND EARLY HOURS OF 26 <sup>TH</sup> NOVEMBER 2020 WITH WIND SPEED OF 120-130 KMPH GUSTING TO 145 KMPH.			
REMARKS	CONVECTIVE CLOUD BANDS LIES OVER COASTAL TAMILNADU.			



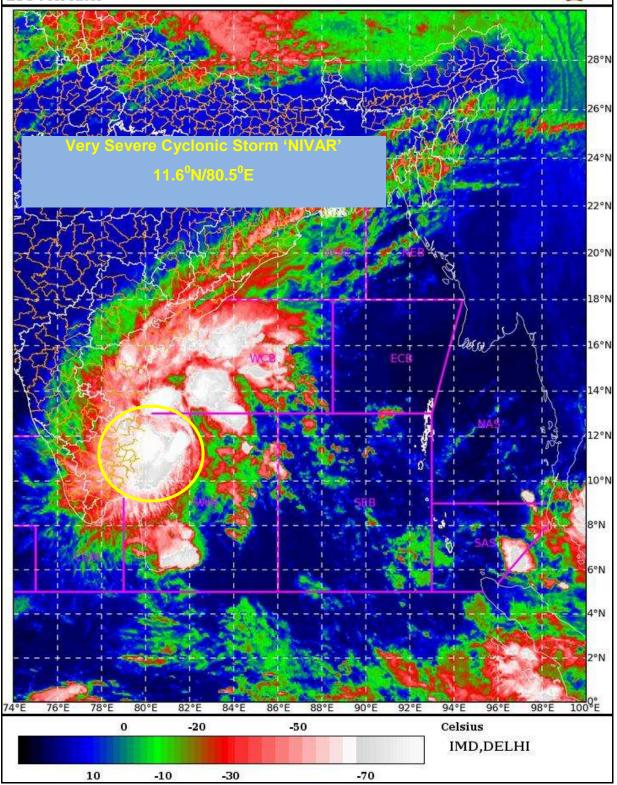


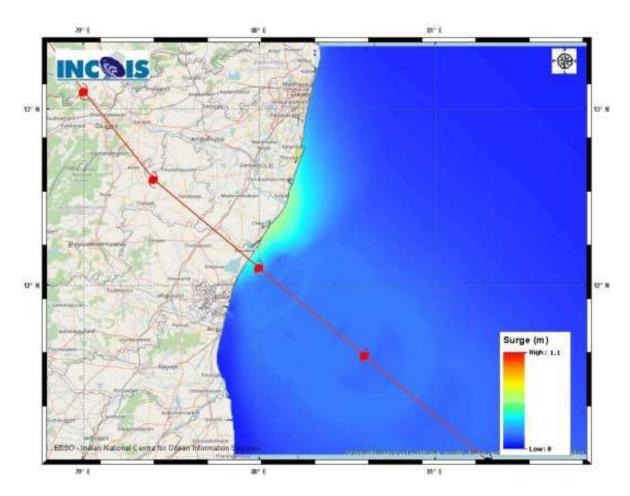
DWR Karaikal Imagery based on 2012 IST of 25<sup>th</sup> November

SAT : INSAT-3D IMG IMG\_TIR1\_TEMP 10.8 um 25-11-2020/(1330 to 1356) GMT 25-11-2020/(1900 to 1926) IST



L1C Mercator



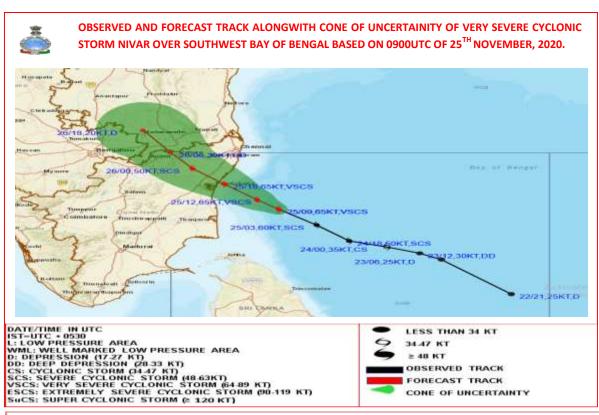


Expected Maximum Storm Surge \* 1.1 m Near Kancheepuram, Tamil Nadu. Expected Maximum Inundation Extent 0.2 Km near Kancheepuram.

## STORM SURGE HEIGHT INFORMATION:

\* The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Chengalpattu	Kancheepuram	Tamil Nadu	Thiruporur	0.5-1.1	Upto 0.2
Cheyyur	Kancheepuram	Tamil Nadu	Kadalur	0.4-0.9	Nil
Mannargudi	Thiruvarur	Tamil Nadu	Thiruvarur	0.2-0.5	Nil
Ponneri	Thiruvallur	Tamil Nadu	Karimanal	0.2-0.4	Nil
Tiruvottiyur	Thiruvallur	Tamil Nadu	Saidapet	0.2-0.5	Nil
Puducherry	Puducherry	Puducherry	Bahour Commune Panchayat	0.4-0.5	Nil
Tindivanam	Viluppuram	Tamil Nadu	Ozhukarai Municipality	0.5-0.7	Upto 0.1
Tirutturaippundi	Nagapattinam	Tamil Nadu	Vaimedu west	0.2-0.7	Nil









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			
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations			