



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

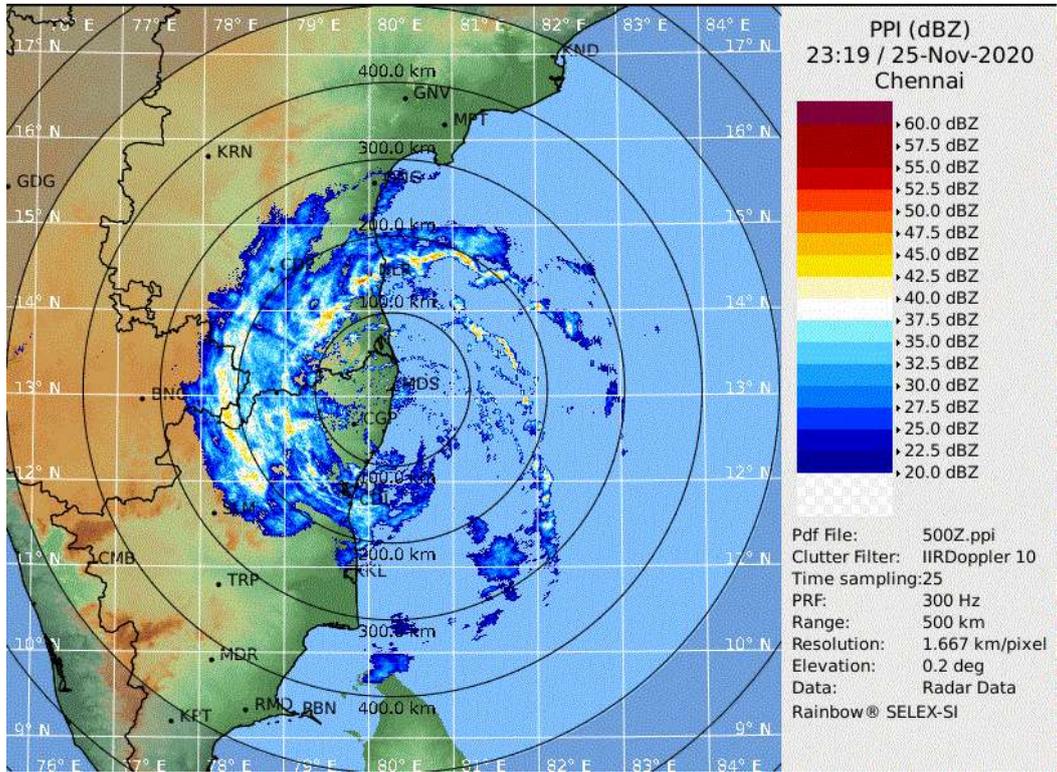
HOURLY UPDATE ON SEVERE CYCLONIC STORM "NIVAR"

BULLETIN NO. 12

DATE: 26-11-2020

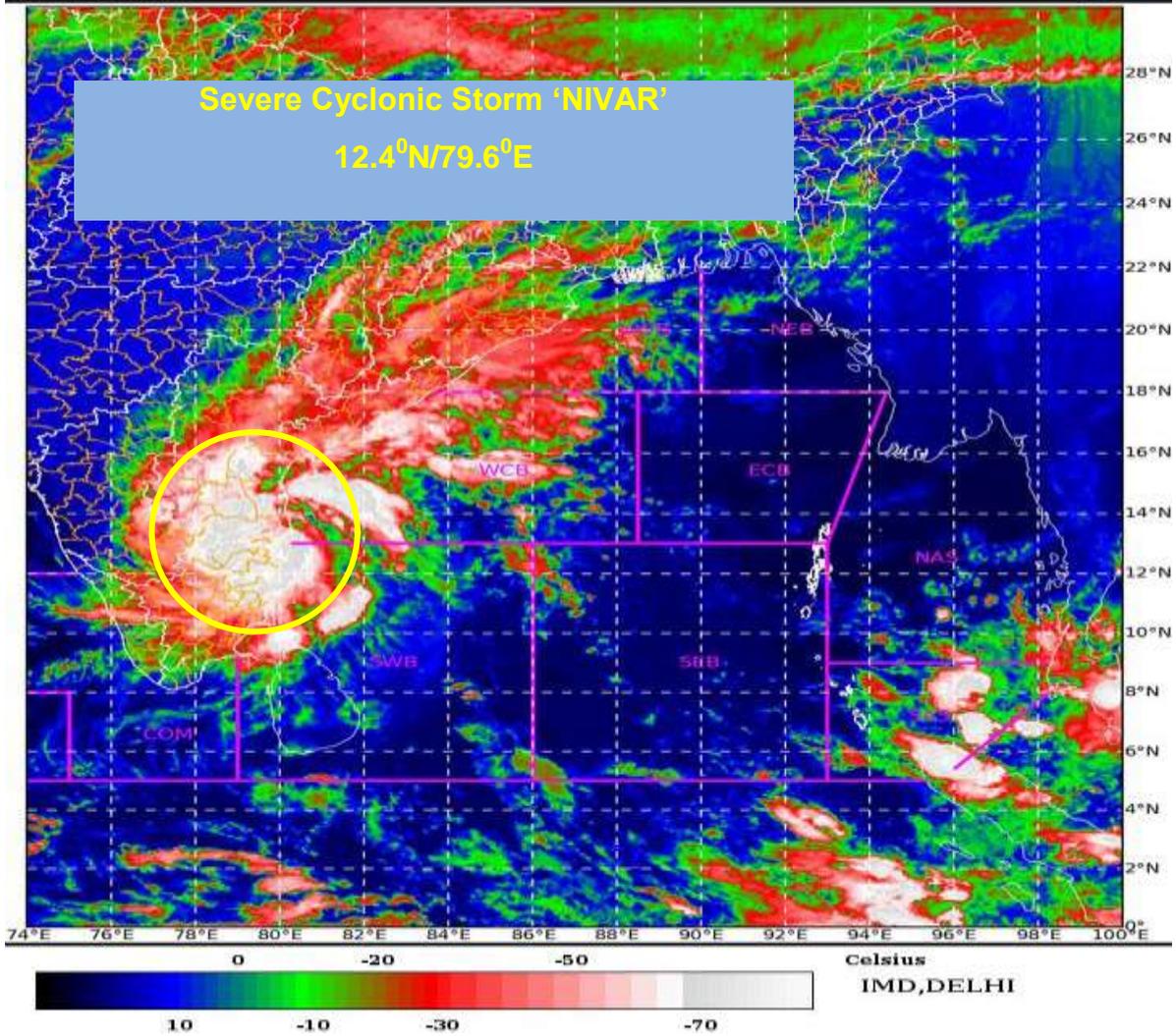
TIME OF ISSUE: 0545 HRS IST

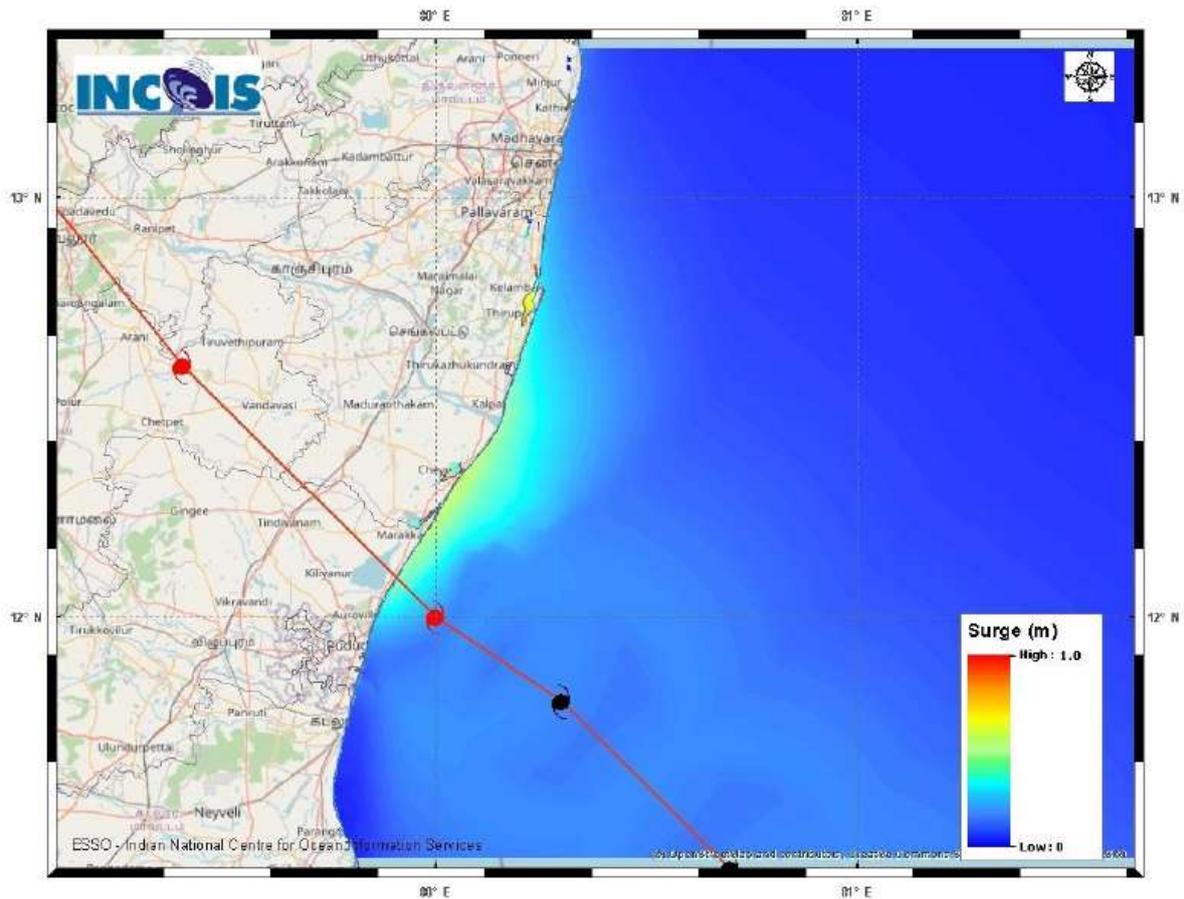
DATE/TIME (IST) OF OBSERVATION	0330 HRS IST OF 26-11-2020 / 2200 UTC OF 25.11.2020
CURRENT LOCATION LATITUDE/LONGITUDE	LAY CENTERED OVER NORTH COASTAL TAMILNADU NEAR LAT. 12.4°N AND LONG. 79.6°E , ABOUT 50 KM NORTH-NORTHWEST OF PUDUCHERRY.
CURRENT INTENSITY	SEVERE CYCLONIC STORM WITH WIND SPEED OF 85-95 KMPH GUSTING TO 105 KMPH.
OBSERVATIONS FROM THE COAST	<u>.RAINFALL (MM) DURING 08:30 HOURS IST OF 25TH NOV TO 0230 HOURS IST OF 26TH NOVEMBER 2020:</u> NAGAPATNAM-63, KARAIKAL-86, CUDDALORE-246, PUDUCHERRY-237 AND CHENNAI-89.
FORECAST MOVEMENT AND INTENSITY	SEVERE CYCLONIC STORM 'NIVAR' WOULD MOVE NORTHWEST WARDS AND WEAKEN FURTHER INTO A CYCLONIC STORM DURING NEXT 03 HOURS.



DWR Chennai Imagery based on 0459 IST of 26th November

SAT: INSAT-3D IMG 25-11-2020/(2300 to 2326) GMT
 IMG_TIR1_TEMP 10.8 um 26-11-2020/(0430 to 0456) IST
 LIC Mercator





Expected Maximum Storm Surge *
Expected Maximum Inundation Extent

1.0 m Near Kancheepuram Tamil Nadu
0.2 Km Near Kancheepuram Tamil Nadu

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)
Chengalattu	Kancheepuram	Tamil Nadu	Thiruporur	0.5-1.0	Upto 0.2
Cheyyur	Kancheepuram	Tamil Nadu	Kadalar	0.4-0.8	Nil
Mannargudi	Thiruvavur	Tamil Nadu	Thiruvavur	0.2-0.5	Upto 0.1
Tindivanam	Viluppuram	Tamil Nadu	Ozhukarai Municipality	0.5-0.6	Upto 0.1
Tirutturaippundi	Nagapattinam	Tamil Nadu	Vaimedu west	0.2-0.5	Upto 0.1



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM 'NIVAR' OVER SOUTHWEST BAY OF BENGAL BASED ON 2100 UTC OF 25TH NOVEMBER, 2020.

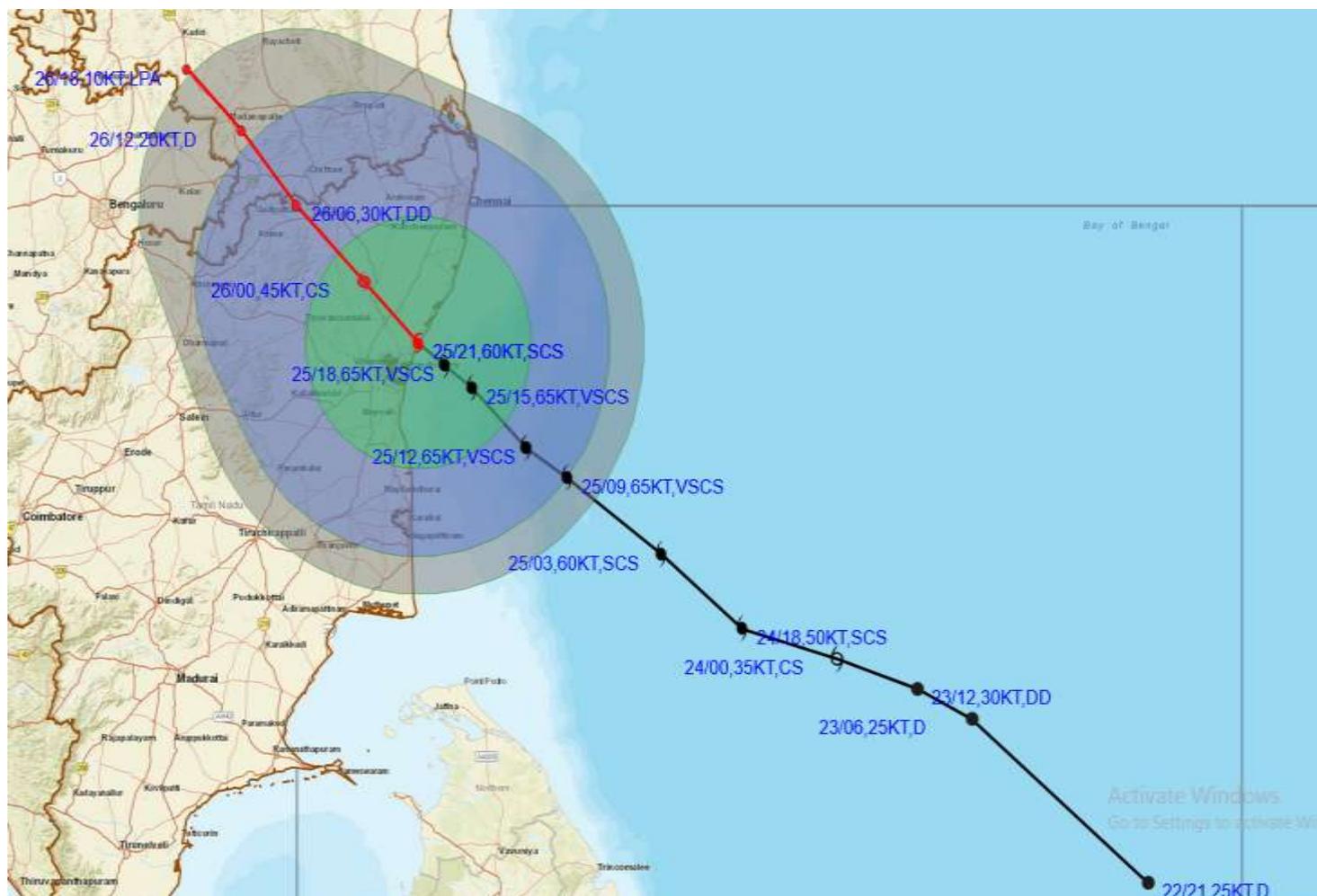


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 SEVERE CYCLONIC STORM 'NIVAR' OVER SOUTHWEST BAY OF BENGAL BASED ON 2100 UTC OF 25TH NOVEMBER, 2020



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● 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