



India Meteorological Department
(Ministry of Earth Sciences)
BULLETIN NO. : 26 (BOB/05/2020)

TIME OF ISSUE: 2200 HOURS IST

DATED: 03.12.2020

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Sub: Deep Depression over Gulf of Mannar

The **Deep Depression** over Gulf of Mannar close to Ramanathapuram District coast moved westwards with a speed of 07 kmph during past six hours and lay centered at 2030 hrs IST of 03rd December over Gulf of Mannar near Lat. 9.2°N and Long. 78.9°E close to Ramanathapuram District coast, about 20 km south of Ramanathapuram, 30 km west-southwest of Pamban and 190 km east-northeast of Kanniyakumari. **The associated wind speed is about 55-65 gusting to 75 kmph.**

The Deep Depression would move west-southwestwards and cross Ramanathapuram and Thoothukudi districts by early hours of 4th December with wind speed of 50-60 gusting to 70 kmph. It is very likely to weaken further into a Depression (wind speed 40-50kmph gusting to 60 kmph) by 4th December morning.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
03.12.20/2030	9.2/78.9	55-65 gusting to 75	Deep Depression
03.12.20/2330	9.1/78.5	50-60 gusting to 70	Deep Depression
04.12.20/0530	8.9/78.0	45-55 gusting to 65	Depression
04.12.20/1130	8.8/77.4	40-50 gusting to 60	Depression
04.12.20/1730	8.7/76.8	30-40 gusting to 50	Well Marked Low

Spatial rainfall distribution: Isolated: ≤25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Rainfall

- Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tamilnadu and Kerala during next 24-hours.
- Heavy rainfall at isolated places very likely over south Coastal Andhra Pradesh and Lakshadweep on 3rd & 04th December.

Sub-Divisions	03 Dec 2020*	04 Dec 2020*
Tamilnadu, Puducherry & Karaikal	Rainfall at many places with heavy to very heavy rainfall at isolated places	Rainfall at many places with heavy fall at isolated places
Kerala & Mahe	Rainfall at most places with heavy to very heavy rainfall at at isolated places	Rainfall at many places with heavy to very heavy rainfall at isolated places
South Coastal Andhra Pradesh	Rainfall at a few places with heavy rainfall at isolated places	Rainfall at a few places with heavy rainfall at isolated places
Lakshadweep	Rainfall at many places	Rainfall at most places with heavy to very falls at isolated places

(ii) Wind warning

- Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely during next 6 hours along and off south Tamilnadu coast (Ramanathapuram, Thoothukudi, Tirunelveli and Kanniyakumari districts) and it will gradually decrease to 45-55 kmph gusting to 65 kmph by tomorrow morning the 4th December.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph likely to prevail along & off south Kerala coast (Thiruvananthapuram, Kollam, Pathanamthitta and Alappuzah districts) during next 24-hours.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph very likely over Lakshadweep-Maldives area and adjoining southeast Arabian Sea on 4th December.

(iii) Sea condition

- Sea condition is rough to very rough over Gulf of Mannar and adjoining southwest Bay of Bengal, along & off south Tamilnadu, west Sri Lanka coasts till morning of the 4th December and rough to very rough over Comorin Area, adjoining southeast Arabian Sea and along & off Kerala coast on 4th December.

(v) Fishermen warning and Action suggested

- Fishermen are advised not to venture into Gulf of Mannar and adjoining southwest Bay of Bengal and along & off south Tamilnadu coast and north Sri Lanka coasts during next 12- and along and off Kerala coast, Lakshadweep-Maldives area & adjoining southeast Arabian Sea during next 24-hours.

The next bulletin will be issued at 0230 hrs IST of 4th December, 2020.

(D.R. Pattanaik)
Scientist-F, RSMC, New Delhi

Copy to: ACWC Kolkata/Chennai/CWC Bhubaneswar/CWC Visakhapatnam/CWC Thiruvananthapuram

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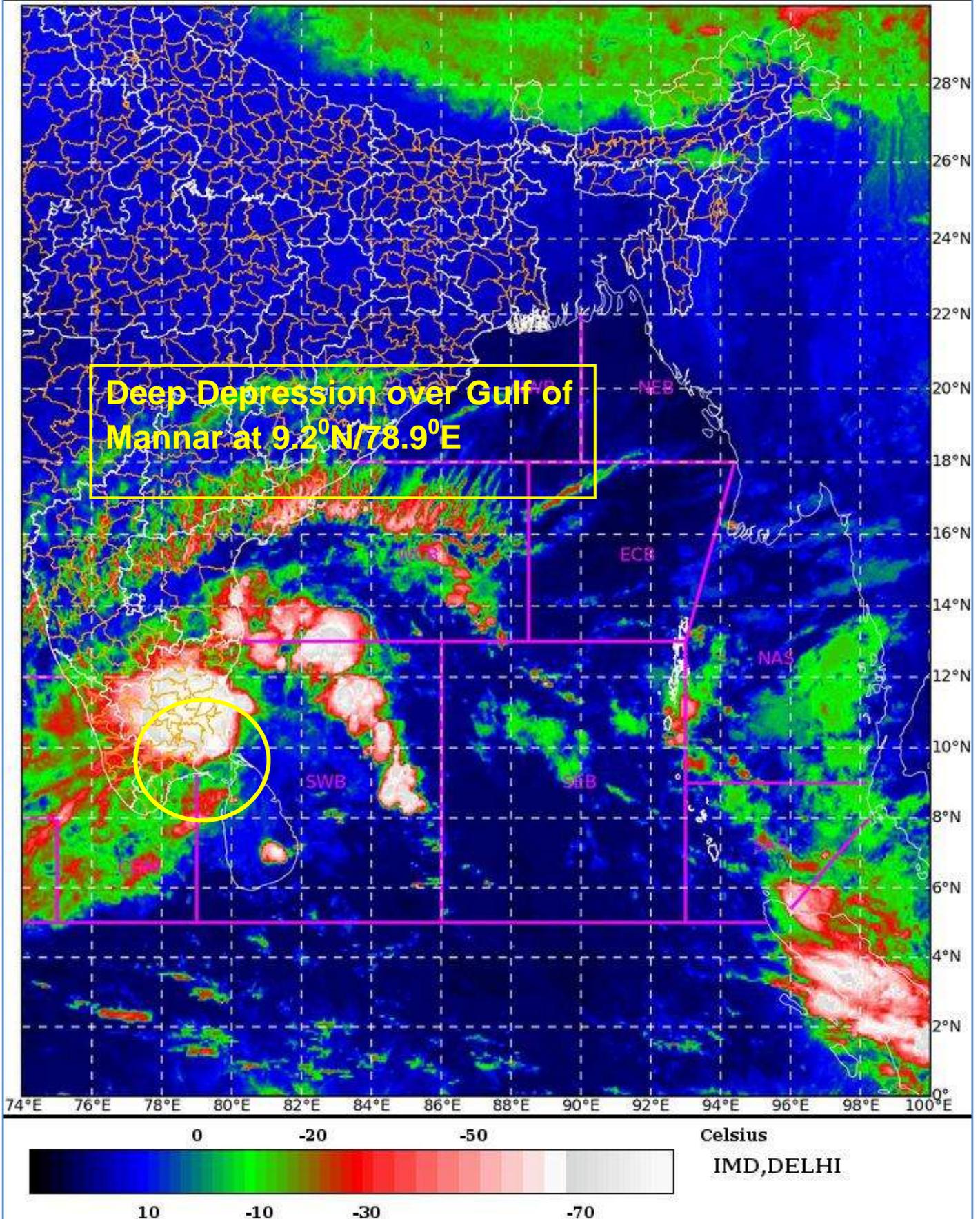
SAT : INSAT-3D IMG

03-12-2020/(1530 to 1556) GMT

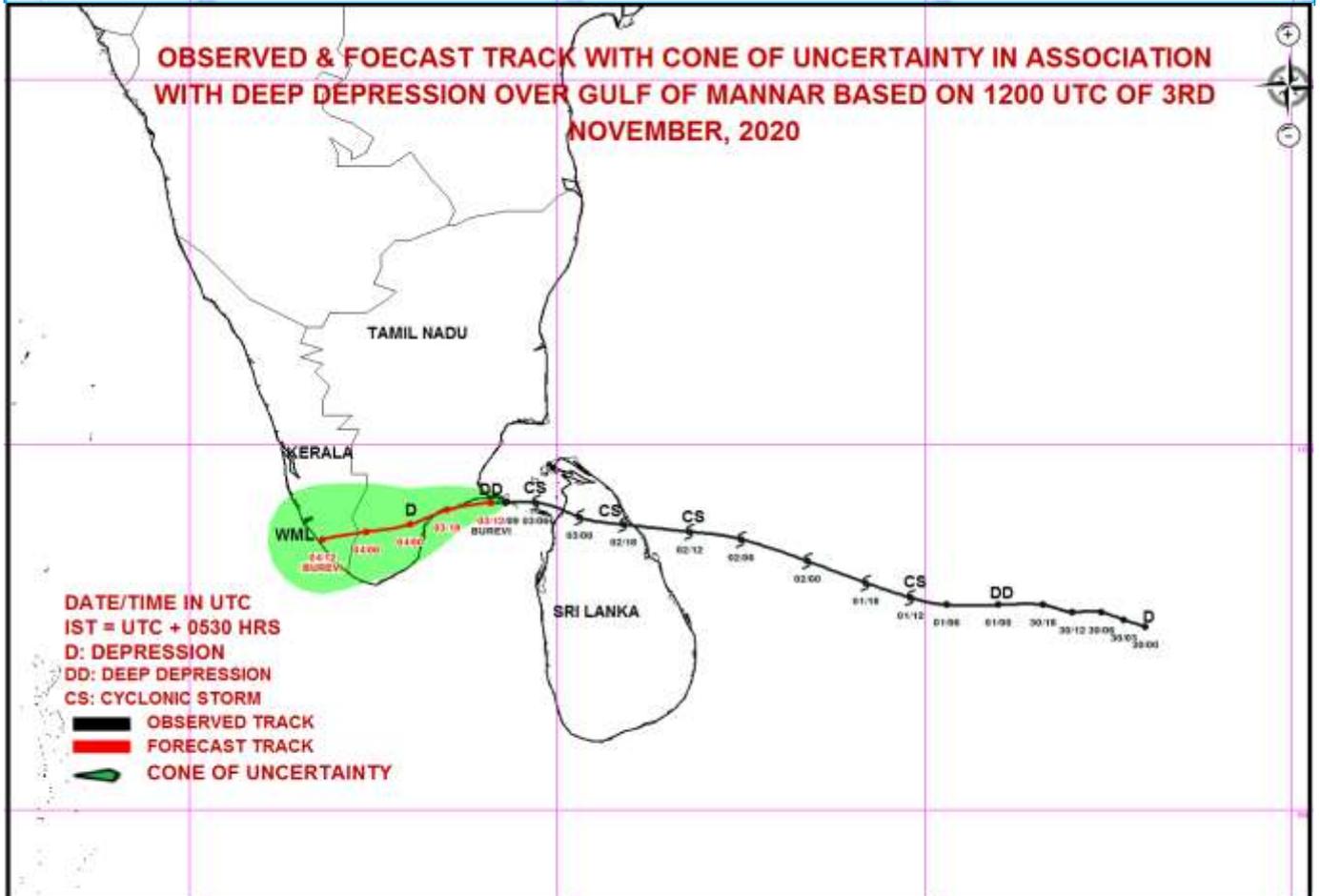
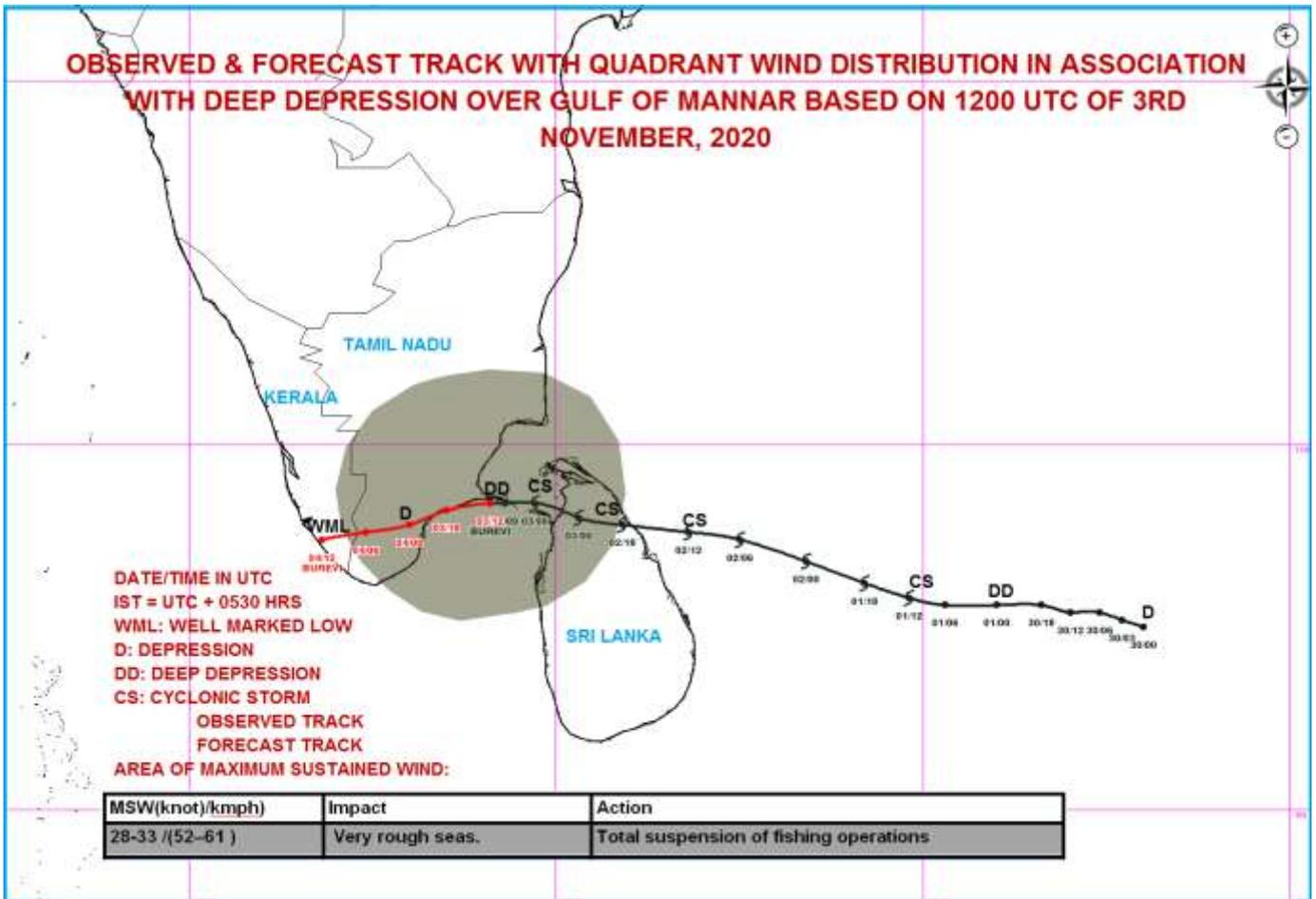
IMG_TIR1_TEMP 10.8 um

03-12-2020/(2100 to 2126) IST

L1C Mercator



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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)
Tiruvadana	Ramanathapuram	Tamil Nadu	Marungur	0.5-0.9	Upto 0.7
Ramanathapuram	Ramanathapuram	Tamil Nadu	Nagachi	0.6-0.8	Upto 0.3
Arantangi	Pudukkottai	Tamil Nadu	Enadi	0.4-0.7	Upto 0.4
Ottapidaram	Thoothukkudi	Tamil Nadu	Tharuvaikulam	0.3-0.4	Nil
Pattukkottai	Thanjavur	Tamil Nadu	Palanjur	0.2-0.4	Upto 0.18
Peravurani	Thanjavur	Tamil Nadu	Sendalaivayal	0.3-0.4	Nil
Tuticorin	Thoothukkudi	Tamil Nadu	Mappilaiurani	0.3-0.4	Nil

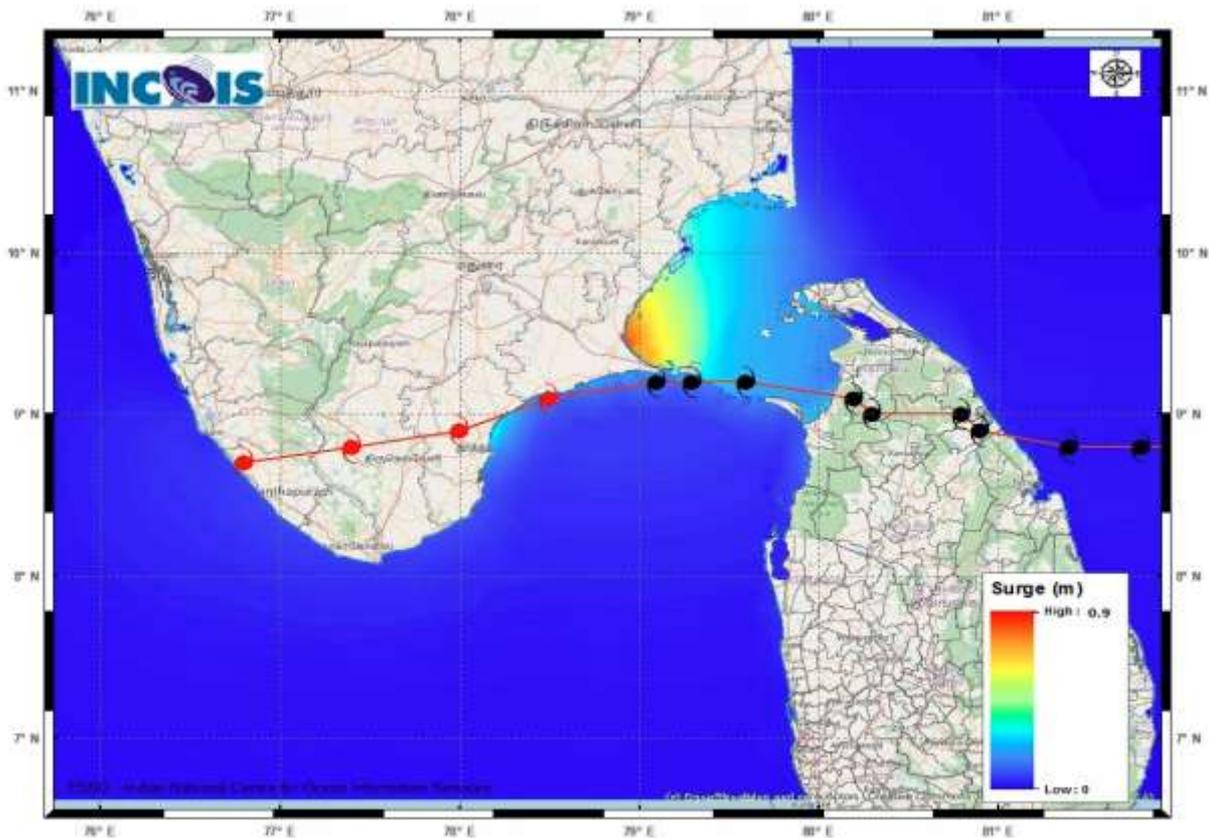


Figure:Storm Surge Map

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