# Cyclone Nivar

November 25, 2020

In news

Cyclone Nivar to the coasts of Tamil Nadu and Puducherry

#### About Cyclone Nivar

- It is originated in the Bay of bengal
- According to a recent update from the India Meteorological Department the cyclonic storm NIVAR over southwest Bay of Bengal has burgeoned into a 'severe cyclonic storm' and lay 370 km east southeast of Chennai and 310 km southeast of Puducherry
- The cyclone is likely to intensify further into a 'very severe cyclonic storm' by noon and make landfall by late evening between the Tamil Nadu and Puducherry coasts, around Karaikal and Mamallapuram with a wind speed of 120-130 kmph gusting to 145 kmph.

#### What are tropical cyclones?

Tropical cyclones are one of nature's most violent manifestations and potentially the deadliest of all meteorological phenomena. It is a unique combination of violent wind, heavy rainfall and mountainous waves in sea.

A Tropical cyclone is a non-frontal, synoptic-scale, low-pressure system over tropical or subtropical waters with persistent, organized convection and a closed cyclonic circulation.

### IMD classification of cyclones:

## India Meteorological Department Tropical Cyclone Intensity Scale

Tropical Cyclone Intensity Scale	
Category	Sustained winds (3-min average)
Super Cyclonic Storm	≥120 kt ≥221 km/h
Extremely Severe	90–119 kt
Cyclonic Storm	166-220 km/h
Very Severe	64–89 kt
Cyclonic Storm	118-165 km/h
Severe Cyclonic	48–63 kt
Storm	89-117 km/h
Cyclonic Storm	34–47 kt
	63-88 km/h
Deep Depression	28–33 kt
	51–62 km/h
Depression	17–27 kt
	31–50 km/h

#### Cyclones are classified on the basis of the wind speed.

- The lowest official classification used in the North Indian Ocean is a **Depression**, which has a 3-minute sustained wind speed of between 20–31 mph (31–50km/h).
- Deep Depression: If the depression intensifies further then it will become a Deep Depression, which has speeds of between 32–38 mph (51–62 km/h).
- Cyclonic storm: If the Deep Depression develops gale force wind speeds of between 39–54 mph (63–88 km/h), it is called a Cyclonic storm and the Indian Meteorological Department (IMD) assigns a name to it.
- Severe Cyclonic Storm: They have storm force wind speeds of between 55-72 mph (89-117 km/h).
- Very Severe Cyclonic Storm: They have hurricane-force winds of 73-102 mph (118-165 km/h).
- Extremely Severe Cyclonic Storm: They have hurricaneforce winds of 104-137 mph (166-220 km/h).
- Super Cyclonic Storm: The highest classification used in the North Indian Ocean which have hurricane-force winds of above 138 mph (221 km/h).