



# Cyclone Nivar

## Why in News

Recently, the [tropical cyclone Nivar](#) has made landfall along the **Tamil Nadu-Puducherry** coast.

- Landfall refers to the phenomenon of a cyclone's outer wall moving over the coastline and beyond.

## Key Points

### ▪ Tropical Cyclone:

- A tropical cyclone is an intense circular storm that **originates over warm tropical oceans** and is **characterized by** low atmospheric pressure, high winds, and heavy rain.
- A characteristic feature of tropical cyclones is the **eye**, a central region of clear skies, warm temperatures, and low atmospheric pressure.
- Storms of this type are called **hurricanes in the North Atlantic** and eastern Pacific and **typhoons in SouthEast Asia** and China. They are called **tropical cyclones** in the **southwest Pacific and Indian Ocean region** and **Willy-willies in north-western Australia**.
- Storms **rotate anticlockwise** in the **northern hemisphere** and clockwise in the southern hemisphere.

### ▪ Cyclone Nivar:

- It is the **fourth cyclone** that has taken shape in the North Indian Ocean region this year. The first three cyclones were **Cyclone Gati** (made landfall in Somalia in November), [Cyclone Amphan](#) (eastern India witnessed it in May), and [Cyclone Nisarga](#) (in Maharashtra).
- Nivar will be the **second cyclone to hit Tamil Nadu in two years** after [Cyclone Gaja](#) in 2018.
- The storm has been **named Cyclone Nivar**, based on the **guidelines of the World Meteorological Organisation (WMO)**. Nivara has been **selected from the list of names given by Iran**.
  - According to WMO guidelines, countries in every region are supposed to give names for cyclones.
  - The North Indian Ocean Region covers tropical cyclones formed over Bay of Bengal and Arabian Sea.
  - The **13 members**, which come under the region, are Bangladesh, India, Maldives, Myanmar, Oman, Pakistan, Sri Lanka, Thailand, Iran, Qatar, Saudi Arabia, the UAE and Yemen.
  - **A total of 169 cyclones were named** by these countries for this year, with **13 names from each country**.
- It has weakened from a very severe cyclonic storm to a severe cyclonic storm with a wind speed of 100-110 km per hour.



| Cyclone Category | Wind Speed in Km/h | Damage Capacity | Type of Disturbances  | Wind Speed in Km/h |
|------------------|--------------------|-----------------|-----------------------|--------------------|
| 01               | 120-150            | Minimal         | Low Pressure          | Less than 31       |
| 02               | 150-180            | Moderate        | Depression            | 31-49              |
| 03               | 180-210            | Extensive       | Deep Depression       | 49-61              |
| 04               | 210-250            | Extreme         | Cyclonic Storm        | 61-88              |
| 05               | 250 +              | Catastrophic    | Severe Cyclonic Storm | 88-117             |
|                  |                    |                 | Very Severe Cyclone   | 118-221            |
|                  |                    |                 | Super Cyclone         | More than 221      |

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▪ **Government Steps:**

- The **Tamil Nadu government** has announced a **public holiday** under the **Negotiable Instruments Act, 1881**, in 16 districts, including Chennai, considering the impact of Cyclone Nivar.
- **Fishing activities** have been **restricted and residents evacuated** in coastal areas hit by the cyclone. The **National Disaster Response Force (NDRF)** has deployed its teams in the affected regions.

**Source:IE**

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