

Cyclone Emnati

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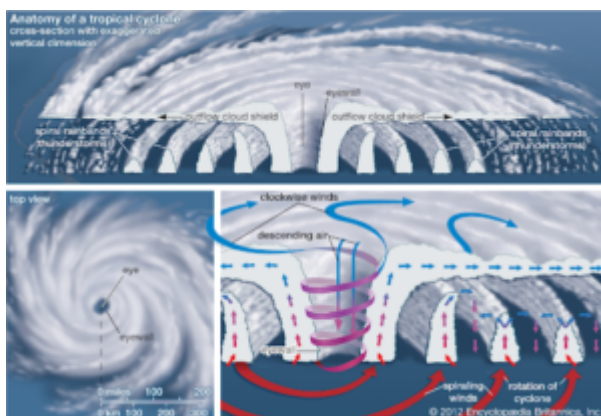
In news—The Cyclone Emnati has lashed the island nation Madagascar recently.

About the cyclone Emnati-

- It made landfall around 2300 GMT just north of the southeastern district of Manakara.
- The storm, which **passed just north of Indian Ocean islands of Mauritius and Reunion**, had weakened slightly by the time it reached the eastern coast of Madagascar.
- Another storm, **Cyclone Batsirai** struck the island on February 5th claiming 121 lives.

What are tropical Cyclones?

- 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.**
- In extreme cases winds may exceed 240 km per hour, and gusts may surpass 320 km per hour.



- In the North Atlantic Ocean and the eastern North Pacific, they are called **hurricanes.**
- In the western North Pacific, the storms are referred to as **typhoons.**

- In the western South Pacific and the Indian Ocean, they are variously referred to as severe tropical cyclones, tropical cyclones, or simply cyclones.
- Tropical cyclones occur every year during the late summer months: July–September in the Northern Hemisphere and January–March in the Southern Hemisphere.
- **Several factors are required for these thunderstorms to develop further, including** *sea surface temperatures of around 27 °C (81 °F) and low vertical wind shear surrounding the system, atmospheric instability, high humidity in the lower to middle levels of the troposphere, enough Coriolis force to develop a low-pressure center, a pre-existing low-level focus or disturbance.*
- Characteristic features of tropical cyclones are **the eye**, a central region of clear skies, warm temperatures, and low atmospheric pressure; the **eyewall**, the most dangerous and destructive part where winds are strongest and rainfall is heaviest; and **rainbands**, secondary cells that spiral into the center of the storm.

Naming of Cyclones-

- Cyclones that form in every ocean basin across the world are named by the **regional specialised meteorological centres (RSMCs) and Tropical Cyclone Warning Centres (TCWCs).**
- In 2000, a group of nations called **WMO/ESCAP** (World Meteorological Organisation/United Nations Economic and Social Commission for Asia and the Pacific), which comprised **Bangladesh, India, the Maldives, Myanmar, Oman, Pakistan, Sri Lanka and Thailand**, decided to start naming cyclones in the region.
- There are six RSMCs in the world, including the India Meteorological Department (IMD), and five TCWCs.
- As an RSMC, the IMD names the cyclones developing over the North Indian Ocean, including the Bay of Bengal and

Arabian Sea, after following a standard procedure.

- The IMD is also mandated to issue advisories to 12 other countries in the region on the development of cyclones and storms.

List of Important cyclones that hit India-

- **Cyclone Tauktae (Myanmar):** It was the first cyclonic storm of 2021 that emerged from the Arabian Sea (mainly hit Gujarat).
- **Cyclone Yaas (named by Oman):** It was formed in the Bay of Bengal and hit West Bengal and adjoining Odisha coasts in May 2021.
- **Cyclone Gulaab:** It originated in the Bay of Bengal and hit the country in September 2021 and **the IMD assigned it the name Gulab.**
- **Cyclonic Storm Jawad (Named by Saudi Arabia):** It was a weak tropical cyclone that caused major disruptions over Andhra Pradesh, Odisha and West Bengal in December 2021 India.

Further

reading:

<https://journalsofindia.com/the-naming-of-cyclones/>