

Typhoon Shanshan

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About Tropical Cyclone:

- A tropical cyclone is a significant weather phenomenon.
- **Formation:** These cyclones originate over **warm ocean waters near the equator**. Warm, moist air rises from the ocean surface, creating a low-pressure area.
 - Surrounding higher-pressure air moves towards this low-pressure zone, causing the air to warm up and rise further. As the rising air cools, it forms clouds.
 - This system of spinning clouds and wind intensifies with the ocean's heat. As wind speeds increase, an eye forms at the centre.

Characteristics of a Tropical Cyclone:

- **Calm centre:** The cyclone's centre is typically calm and clear, with very low air pressure.
- **Speed:** The average wind speed is around 120 km/h.
- **Closed isobars:** These cyclones have closed isobars, leading to higher wind velocities. Isobars are imaginary lines on a weather map that connect points of equal atmospheric pressure.

- **Origin:** They form exclusively over oceans and seas.
- **Movement:** Tropical cyclones move from east to west, are influenced by trade winds, and are seasonal.

Classification of Cyclones:

- Cyclones are categorised by the **Indian Meteorological Department (IMD)** based on wind speeds:
 - **Depression:** Wind speeds between 31–49 km/h
 - **Deep depression:** Wind speeds between 50–61 km/h
 - **Cyclonic storm:** Wind speeds between 62–88 km/h
 - **Severe cyclonic storm:** Wind speeds between 89–117 km/h
 - **Very severe cyclonic storm:** Wind speeds between 118–166 km/h
 - **Extremely severe cyclonic storm:** Wind speeds between 166–221 km/h
 - **Super cyclonic storm:** Wind speeds above 222 km/h

Naming of Tropical Cyclones:

- Tropical cyclones are named by one of five regional bodies:
 - ESCAP/WMO Typhoon Committee
 - WMO/ESCAP Panel on Tropical Cyclones
 - RA I Tropical Cyclone Committee
 - RA IV Hurricane Committee
 - RA V Tropical Cyclone Committee

In the Indian Ocean, the **WMO/ESCAP Panel on Tropical Cyclones** is responsible for naming cyclones.

Q1. Which country has given the name to Cyclone Mandous?

The name, 'Mandous', was suggested by the United Arab Emirates (UAE) in 2020 as a member of the World Meteorological Organisation (WMO).

Source: [Typhoon Shanshan moves closer to Japan's coast; rains, winds cause flight and rail disruptions | World News](#)

Source: <https://vajiramandravi.com/current-affairs/typhoon-shanshan/>

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