

# **Cyclone Remal**

### Why in News?

The deep depression brewing in the <u>Bay of Bengal</u> has escalated into <u>Cyclone "Remal,"</u> **posing a potential threat** to West Bengal and neighboring states, including Jharkhand.

## **Key Points**

- Meteorologists from the Ranchi-based <u>India Meteorological Department (IMD)</u> anticipate significant effects in the affected regions.
  - The IMD predicts **thunderstorms**, **lightning**, **and strong winds** across several parts of the state from 26<sup>th</sup> May to 31<sup>st</sup> May 2024.
  - These weather conditions are expected to affect various districts, including Jamshedpur, Ranchi, Bokaro, Gumla, Hazaribagh, Simdega, and more.
- The name 'Remal' in the list of tropical cyclones is given by Oman. It will be the first cyclone to hit the region this 2024 pre-monsoon season.
  - · 'Remal,' meaning 'sand' in Arabic.

# **CYCLONE**

Drishti IAS

Cyclones are rapid **inward** air circulation around a **low-pressure** area.

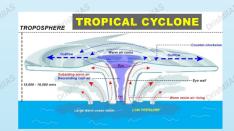


#### Cyclone v/s Anticyclone

Pressure System	Pressure Condition at the Center	Pattern of Wind Direction	
		Northern Hemisphere	Southern Hemisphere
Cyclone	ish Low Dishilds	Anticlockwise	Clockwise
Anticyclone	High	Clockwise	Anticlockwise

#### Classification

- Tropical Cyclones; originate between the Tropics of Capricorn and Cancer
- Extra Tropical/ Temperate Cyclones; originate in the Polar Regions



#### **Conditions for Formation**

- Large sea surface with temperature >27° C.
- Presence of the Coriolis force
- Small variations in the vertical wind speed
- A pre-existing weak low- pressure area
- Upper divergence above the sea level system

#### **Different Names for Tropical Cyclones**

- Typhoons Southeast Asia and China
- Hurricanes North Atlantic and eastern Pacific
- Tornados West Africa and southern USA
- Willy-willies Northwest Australia
- Tropical Cyclones Southwest Pacific and Indian Ocean

#### **Nomenclature**

- Nodal Authority World Meteorological Organization (WMO)
- Indian Ocean Region Bangladesh, India, Maldives, Myanmar, Oman, Pakistan, Sri Lanka and Thailand contribute to naming cyclones that occur in this region.

#### Cyclones in India

- Bi-annual Cyclone Season March to May and October to December
- Recent Cyclones Tauktae, Vayu, Nisarga and Mekanu (in Arabian Sea) and Asani, Amphan, Fani, Nivar, Bulbul, Titli, Yaas and Sitrang (in Bay of Bengal)



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