



Cyclone 'Dana' Impact on Bihar | Bihar | 24 Oct 2024

Why in News?

Recently, [Cyclone 'Dana'](#) has caused significant changes in the weather pattern across Bihar, leading to heavy rainfall warnings for several districts.

Key Points

- **Affected Districts:** Patna, Gaya, and other nearby regions are likely to experience significant rainfall.
 - The [India Meteorological Department \(IMD\)](#) has issued a [yellow alert](#), warning residents to prepare for potential flooding.
 - Cyclone Dana is also influencing weather conditions in neighboring states like **Jharkhand and West Bengal**.
- **Colour- Coded Weather Warning:**
 - It is issued by the IMD whose objective is to alert people ahead of severe or hazardous weather which has the potential to cause damage, widespread disruption or danger to life.
 - **The IMD uses 4 color codes are:**
 - **Green (All is well):** No advisory is issued.
 - **Yellow (Be Aware):** Yellow indicates severely bad weather spanning across several days. It also suggests that the weather could change for the worse, causing disruption in day-to-day activities.
 - **Orange/Amber (Be prepared):** The orange alert is issued as a warning of extremely bad weather with the potential of disruption in commute with road and rail closures, and interruption of power supply.
 - **Red (Take Action):** When the extremely bad weather conditions are certainly going to disrupt travel and power and have significant risk to life, the red alert is issued.
 - These alerts are universal in nature and are also issued during floods, depending on the amount of water rising above land/in a river as a result of torrential rainfall.
 - For instance, when the water in a river is 'above normal' level, or between the 'warning' and 'danger' levels, a yellow alert is issued.

Cyclone

- [Cyclones](#) are rapid inward air circulation around a low-pressure area. The air circulates in an anticlockwise direction in the **Northern hemisphere and clockwise in the Southern hemisphere**.
- Cyclones are usually accompanied by violent storms and bad weather.
- The word Cyclone is derived from the Greek word Cyclos meaning the coils of a snake. It was coined by Henry Peddington because the tropical storms in the Bay of Bengal and the Arabian Sea appear like coiled serpents of the sea.
- **There are two types of cyclones:**
 - Tropical cyclones; and
 - **Extra Tropical cyclones (also called Temperate cyclones or middle latitude cyclones or Frontal cyclones or Wave Cyclones).**
- The [World Meteorological Organisation](#) uses the term 'Tropical Cyclone' to cover weather systems in which winds exceed '**Gale Force**' (minimum of 63 km per hour).

- Tropical cyclones develop in the region between the **Tropics of Capricorn and Cancer**. They are large-scale weather systems developing over tropical or subtropical waters, where they get organized into surface wind circulation.
- Extra tropical cyclones occur in temperate zones and high latitude regions, though they are known to originate in the Polar Regions.

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