

Western Disturbance in Rajasthan

Why in News?

The India Meteorological Department (IMD) has forecasted that a Western Disturbance will become active over Rajasthan on **21st January**, **2025**.

Key Points

- This weather system is expected to bring light rainfall to the north-western and north-eastern regions of the state.
 - Consequently, the IMD has issued a warning for these areas.
- Western Disturbances:
 - Western disturbances are storms that originate in the Caspian or Mediterranean Sea, and bring non-monsoonal rainfall to northwest India, according to the IMD.
 - They are labelled as an **<u>extra-tropical storm</u>** originating in the Mediterranean, is an area of low pressure that brings sudden showers, snow and fog in northwest India.
 - The meaning of WD lies in its name.
 - The disturbance travels from the "western" to the eastern direction.
 - These travel eastwards on high-altitude **westerly jet streams** massive ribbons of fast winds traversing the earth from west to east.
 - Disturbance means an area of "disturbed" or reduced air pressure.
 - Equilibrium exists in nature due to which the air in a region tries to normalise its pressure.



WESTERN DISTURBANCE

Extra-tropical cyclones that develop in the Mediterranean sea

They gradually travel across the middle-east from Iran, Afghanistan and Pakistan to enter the Indian sub-continent

Usually peak during winter months of January and February, with minimal effects during the monsoon months in India PDF Refernece URL: https://www.drishtiias.com/printpdf/western-disturbance-in-rajasthan

