

Meteorological Department Issues Warning in Madhya Pradesh

Why in News?

<u>The Meteorological Department</u> in Madhya Pradesh has **issued a warning for 15 districts.** Over the past few days, the state has experienced storms, rain, and hailstorms in various areas.

Key Points

- Due to western disturbance, cyclonic circulation and trough line, a strong system is active in the state. There may be more activity of two western disturbances in the coming days. Due to this, rain and hail are expected.
 - The Meteorological Department has also issued advisory for the people.

Western Disturbances

- These are a series of cyclonic storms that originate in the Mediterranean region, travel over 9,000 km to bring winter rains to northwest India.
 - A Western Disturbance collects moisture from the Mediterranean Sea, Black Sea, and Caspian Sea and traverses over Iran and Afghanistan before hitting the western Himalayas.
- Western Disturbances are the primary source of snowfall that replenishes the Himalayan glaciers during winter.
- These glaciers feed major Himalayan rivers like the Ganga, Indus and Yamuna as well as myriad mountain springs and rivulets.

Monsoon Trough

- A trough is a belt of low pressure extending to a large area. This trough is seen during monsoon period, hence known as Monsoon trough.
- Monsoon trough is a part of the Inter Tropical Convergence Zone (ITCZ) where the northern hemisphere and southern hemisphere winds meet.
- This is **normally shown as a line connecting the location of monsoon low pressure areas.**These troughs run across continents during peak monsoon periods.

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