

Tectonic Deformation

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About Tectonic Deformation:

- It refers to the **changes and movements** that occur within the **Earth's crust** due to tectonic forces.
- The Earth's lithosphere, which is composed of the crust and the uppermost part of the mantle, is divided into several large and small tectonic plates.
- These plates are in constant motion and interact with each other at their boundaries.

Key Findings:

- Researchers suggested that tectonic activities may have played a role in the **extinction of the Vedic Saraswati River** that once flowed through the region.

- The Piedmont zone of Haryana is actively deforming and could become **a future seismic hazard zone.**
 - The **Piedmont zone** (a transition zone between the rugged mountains and the relatively flat plains) between the Ghaggar and Yamuna River basins showed signs of active tectonic deformations.
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Q1) What are fold mountains?

These are formed as a result of tectonic deformation. They are created when rocks undergo intense pressure and are subjected to compressional forces, typically at convergent plate boundaries. The compressional **forces cause the rocks to fold and buckle, resulting in the formation of large-scale folds and uplifted mountain ranges.**

Source: [Our study shows a growing zone of active tectonic deformation in northern Haryana plains south of Himalayas](#)

Source: <https://vajiramandravi.com/current-affairs/tectonic-deformation/>

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