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Late Quaternary out-of-sequence deformation in the innermost Kangra Reentrant, NW Himalaya of India: Seismic potential appraisal from ^{10}Be dated fluvial terraces

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Highlights

- Late Quaternary fluvial terraces are displaced by branches of the Palampur Thrust at the innermost Kangra Reentrant.
- Deformation within the Kangra Reentrant is distributed in a ca. 90 km width area along several ramps that emerge to the surface.
- Cumulative shortening rate for the Palampur Thrust is ca. 1.2 mm/yr over the Late Quaternary.
- The estimated deformation rate is due to $7 < M_w < 8$ earthquakes triggered either along crustal ramps and/or along the Main Himalayan Thrust.

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