## 3D successions of near-orthogonal progressive bulk inhomogeneous shortening resulting in multiple generations of folds in the Mount Isa Inlier

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Integrated macro, meso and microstructural analyses of the Sandy Creek, Anitra and Jasper Ridge-Camel Dam domains (southern Eastern Fold Belt, Mount Isa Inhier) provide an understanding of their structural and metamorphic evolution during the Isan Orogeny. The study area lies north of the structural agology of the ore depoints of the structural gology of the ore depoints and the timing and courtors on microllazioni, it is important to establish how deformine in partitioned in the area. Six fibric generating events are recognized from field observations and microstructural analysis. The first deformation is partitioned in the area. Six fibric generating events are recognized from field observations and microstructural analysis. The first deformation D<sub>i</sub> is revealed by outcrop scale north and south verging fight to isocillaral, upright and overtured north-northeast trending folds with pervasive axial planar S<sub>i</sub> foliation parallel to S<sub>i</sub>S. Strain during D<sub>i</sub> was beterogeneously developed in the area and appears to be controlled by rheological contrast across the structural domains. In the Sandy Creck and parts of the Anitra domains, where pelites dominate, D<sub>i</sub> is prevalent and distinguished by the development of shallow dipping S<sub>i</sub> and accompanying east and west verging F<sub>i</sub> folds with promounted north and north-northeast plunging L<sup>2</sup><sub>i</sub> intersection lineation. Mesoscopic scale S<sub>i</sub> crentifications are locally developed in the Camel Dam - Jasper Ridge Domain, reactivating the pre-existing S<sub>i</sub> continued the contrast of the production of the structure of the contrast of the production of the contrast of the contrast of the production of the contrast of the

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