

**Additional Figure Notes:
Figure 8**

Figure D: Example of large, real life, "simple" outcropping Type II Fold Interference Pattern

From the Permian, Beishan Orogenic Collage, Subei Mongol Autonomous County, Gansu Province, China.
With Insets showing schematically the generation of Type II fold interference patterns

The image are rotated 90° to more closely match K4 district orientations.

Inset A: shows type II interference patterns are formed by the superposition of inclined F1 and upright F2 axial planes. Inset B shows the pattern that the type II fold interference pattern forms in outcrop / plan view.

Reality is a lot more complex than ideal and small scale parasitic F2 and F1 folds, and minor faults make the interference pattern fractal and apparent at a variety of scales within the larger structure.

Tracing individual strata visually is very difficult and the form envelope (white dash) of the interference pattern is "fuzzy" and complexly imbricate.

Of special note is the central "Subutai Zone" a sand filled depression at intersection of the major F1 and F2 folds- likely caused by intense weathering in what would be a highly cleaved, sheared, lineated and fractured zone.

