Carbon ordering on thrust planes and distributed shear zones

Lauren Kedar, Clare E. Bond, David Muirhead
University of Aberdeen

- We compare Raman spectral peak intensity ratios across two Alpine thrust planes.
- The thrusts are not connected but involve the same stratigraphy: Tithonian limestone (hanging wall) and Valanginian shale (footwall). The upper 3m of each footwall constitutes a distributed shear zone (denoted by black bars below).
- A clear shift towards lower intensity ratios ($I[d]/I[g]$) is observed on both thrust planes. The shift is more abrupt in the brittle hanging wall, and more gradual in the shear zone of the footwall.
- **This has implications for the use of Raman spectroscopy as a geothermometer in fold-thrust belts.**

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