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Photograph of the Month

Tightly folded granitic veins, SW Finland

These intensely folded granitic veins cutting Palaeoproterozoic quartz-feldspathic gneisses mark both the peak in late-Svecofennian crustal melting at ~1835–1825 Ma, expressed by emplacement of voluminous S-type granites, and synchronous penetrative flattening-style deformation of the crust. The flattening is considered to reflect mid-crustal extension that triggered melting of the crust that was previously thickened during the earlier stages of the Svecofennian orogeny (Skyttä and Mänttäri, 2008). Transpressional deformation and continued crustal melting characterize the subsequent evolution of the crust in the area.

Photograph by Pietari Skyttä. View towards NNE. Hammer length 65 cm. Location: Inkoo, SW Finland; N666 3243, E33 0661 (EUREF-FIN).

Reference

Skyttä, P., Mänttäri, I., 2008. Structural setting of late Svecofennian granites and pegmatites in Uusimaa Belt, SW Finland: Age constraints and implications for crustal evolution. Precambrian Research 164, 86–109.

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