

Figure S1. Overview of hand specimen. **a:** Hand specimen photo of undeformed Arkitsa host-rock carbonate. **b:** Photo of drill core from the Arkitsa footwall cataclasite. Principal slip surface located at the left edge of the drill core. **Inset:** Plane-polarised thin section image. **c:** Hand specimen photo of undeformed Schinos host-rock carbonate. **d:** Photo of drill core from the Schinos footwall cataclasite. Principal slip surface located at the right edge of the drill core. **Inset:** Plane-polarised thin section image.

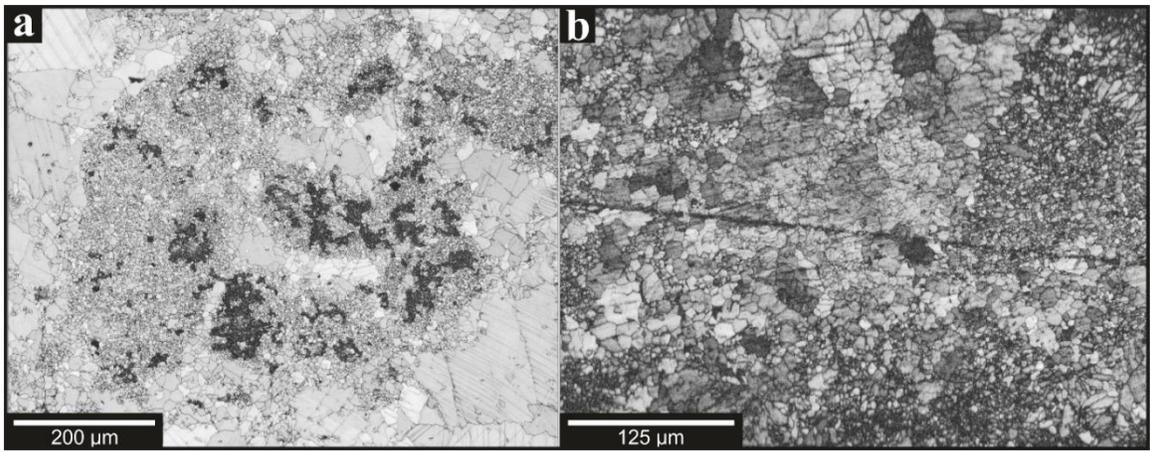


Figure S2. Electron backscatter band-contrast maps showing the host-rock microstructure of Arkitsa (a) and Schinos (b).

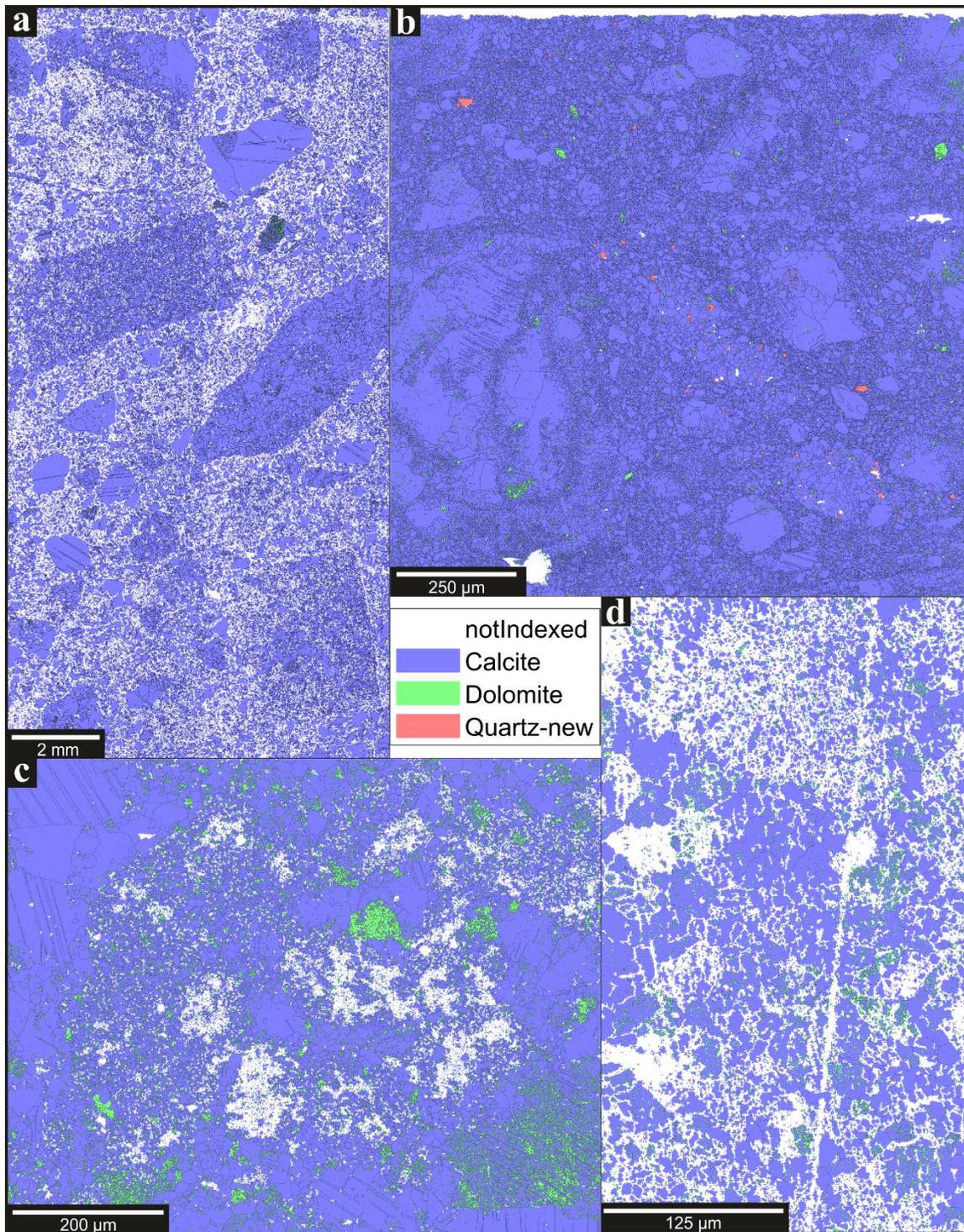


Figure S2. Phase maps created from electron backscatter diffraction. **a:** Phase map from EBSD map of the Arkitsa footwall cataclasite shown in **Figure S2a**. **b:** Phase map from EBSD map of the Schinos footwall cataclasite shown in **Figure S3a**. **c:** Phase map from EBSD map of the Arkitsa host rock shown in **Figure S2b**. **d:** Phase map from EBSD map of the Schinos host rock shown in **Figure S2b**.