

Supporting Information

Sulfur isotope ($\delta^{34}\text{S}$) analyses

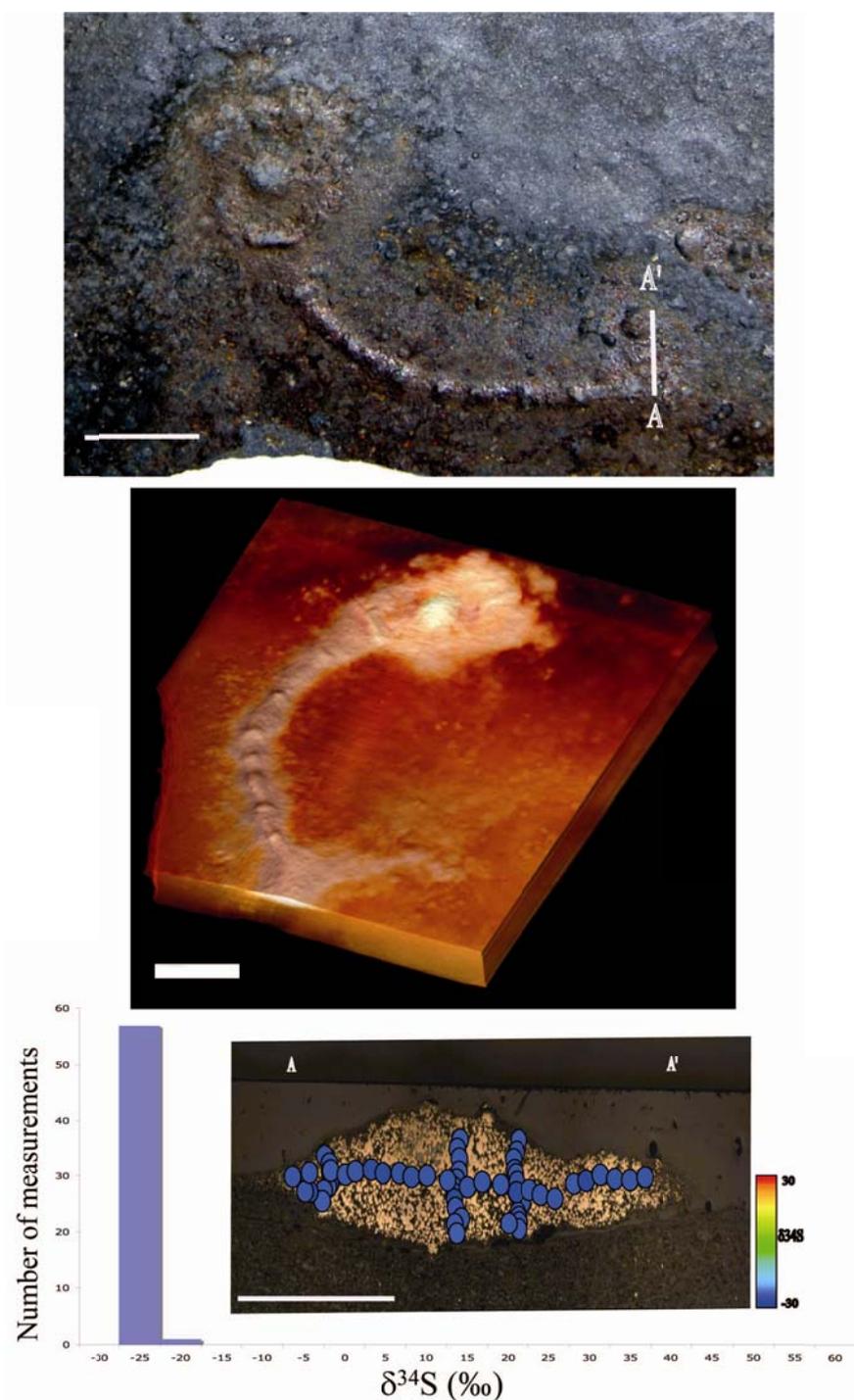


Figure S1. The A-A' section through the specimen G-FB2-s-259 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

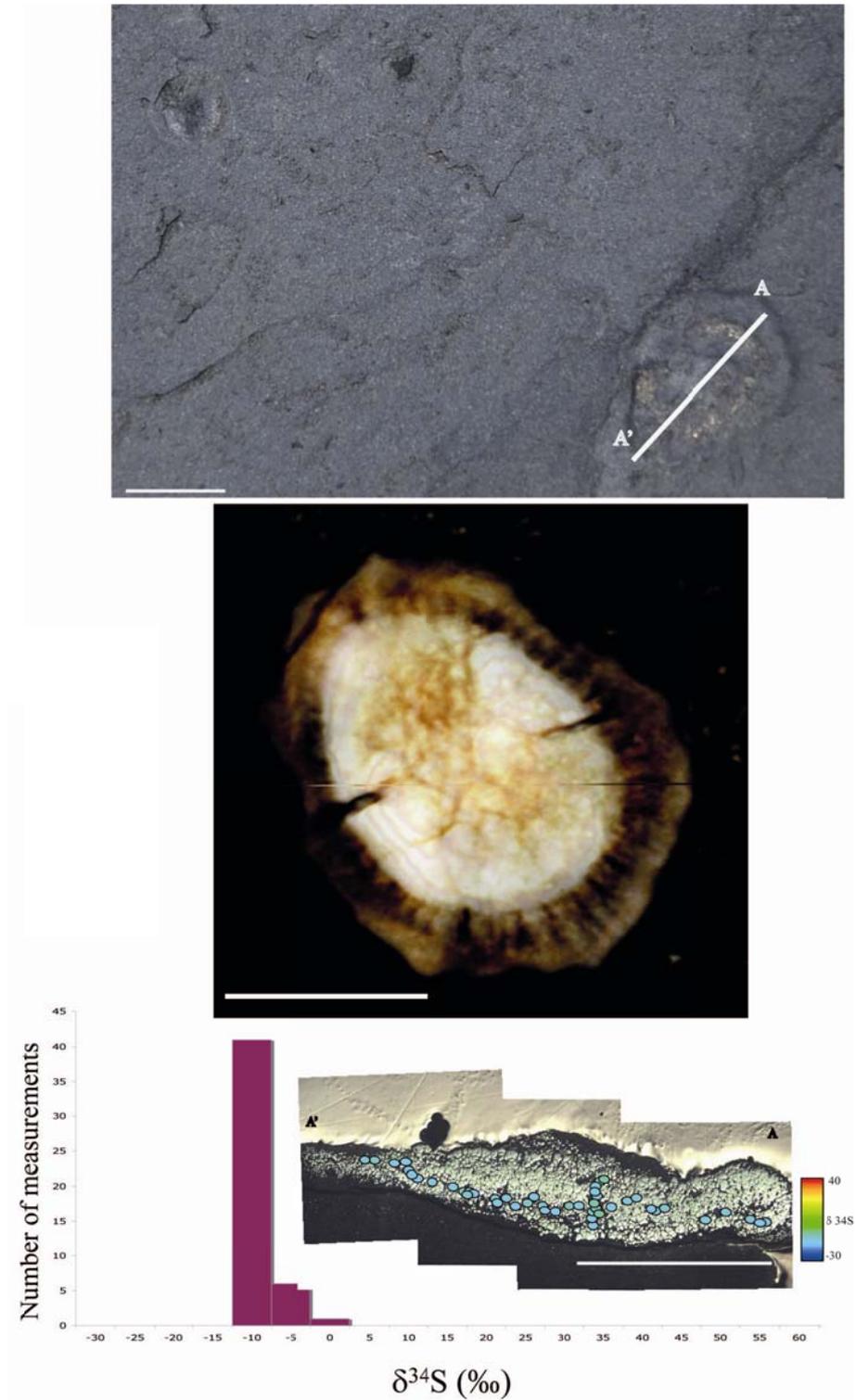


Figure S2. The A-A' section through the specimen G-FB2-s-223 (the circular lines in the CT picture are artefacts of the tomographic rendering) and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

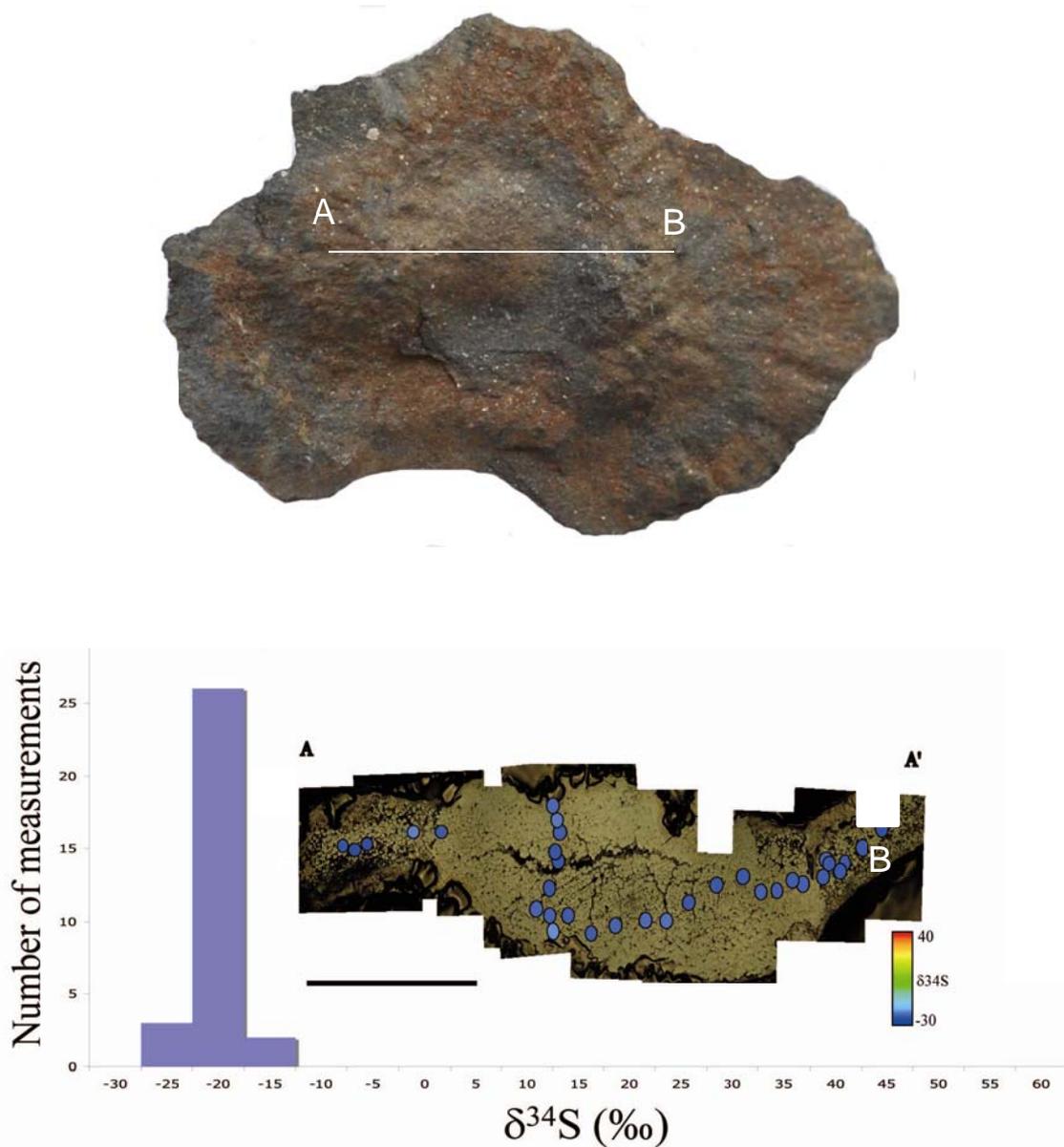


Figure S3. The A-A' section through the specimen G-FB2-s-272 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

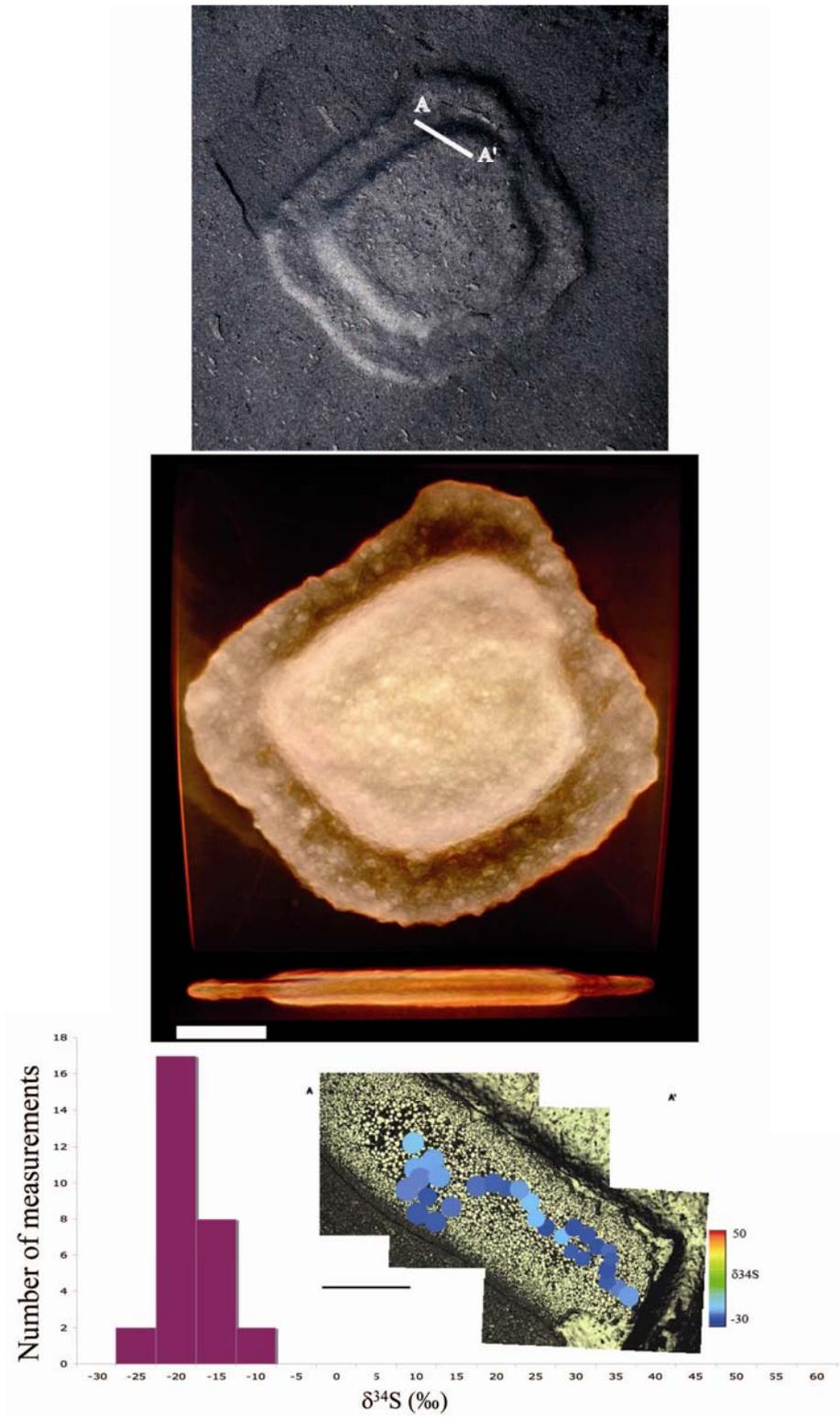


Figure S4. The A-A' section through the specimen G-FB2-s-573 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

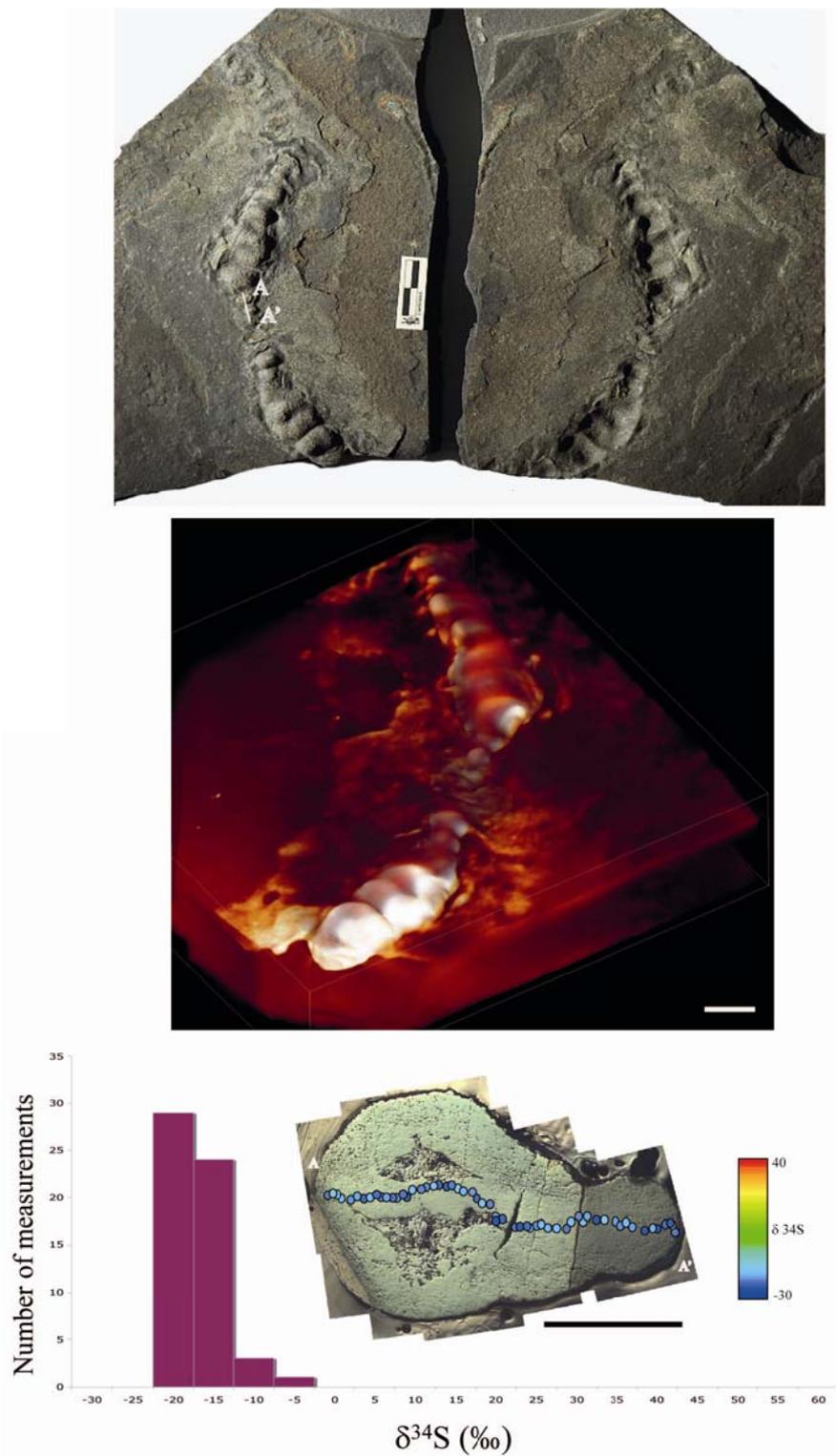


Figure S5. The A-A' section through the specimen G-FB2-s-71 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

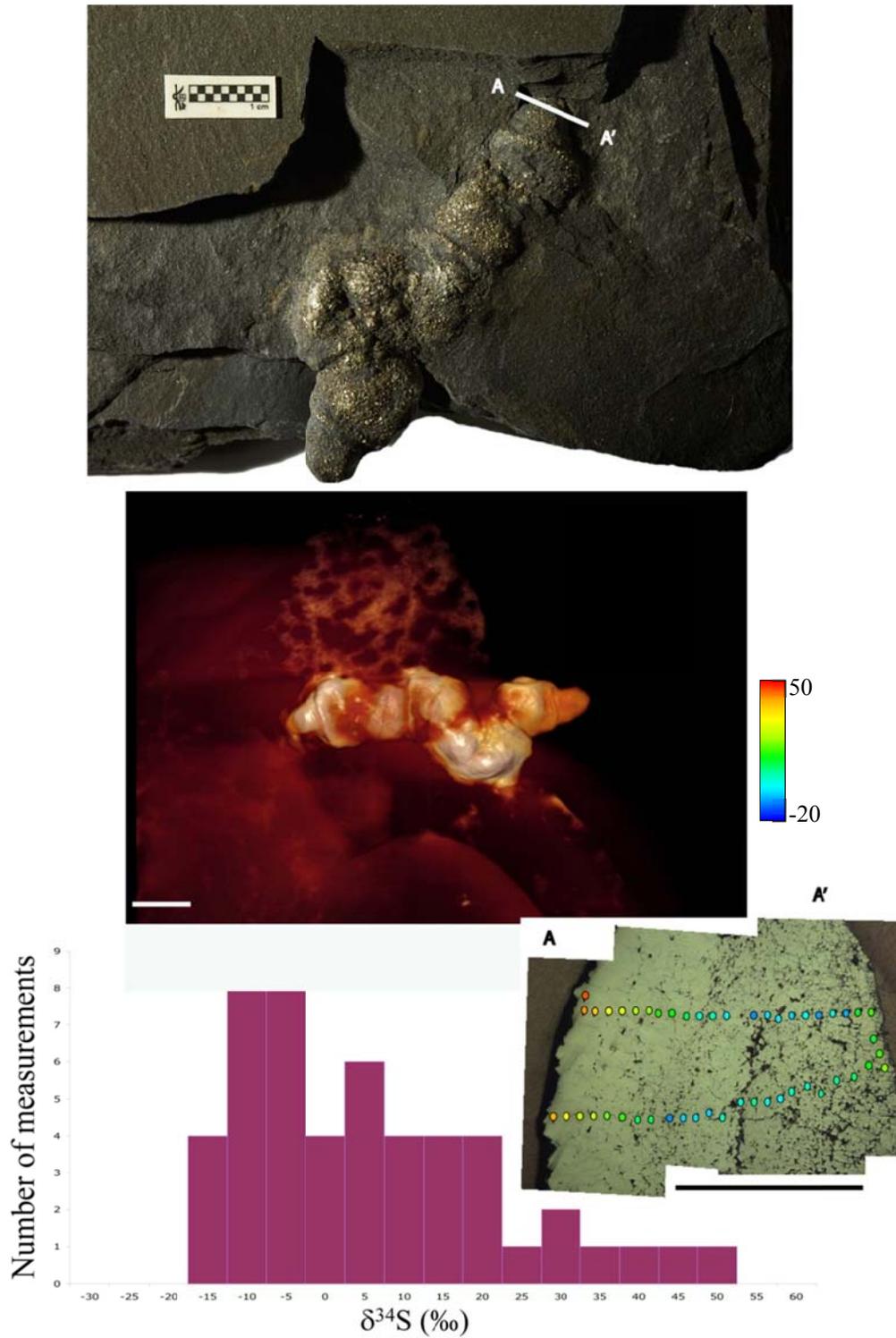


Figure S6. The A-A' section through the specimen G-FB2-s-576 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

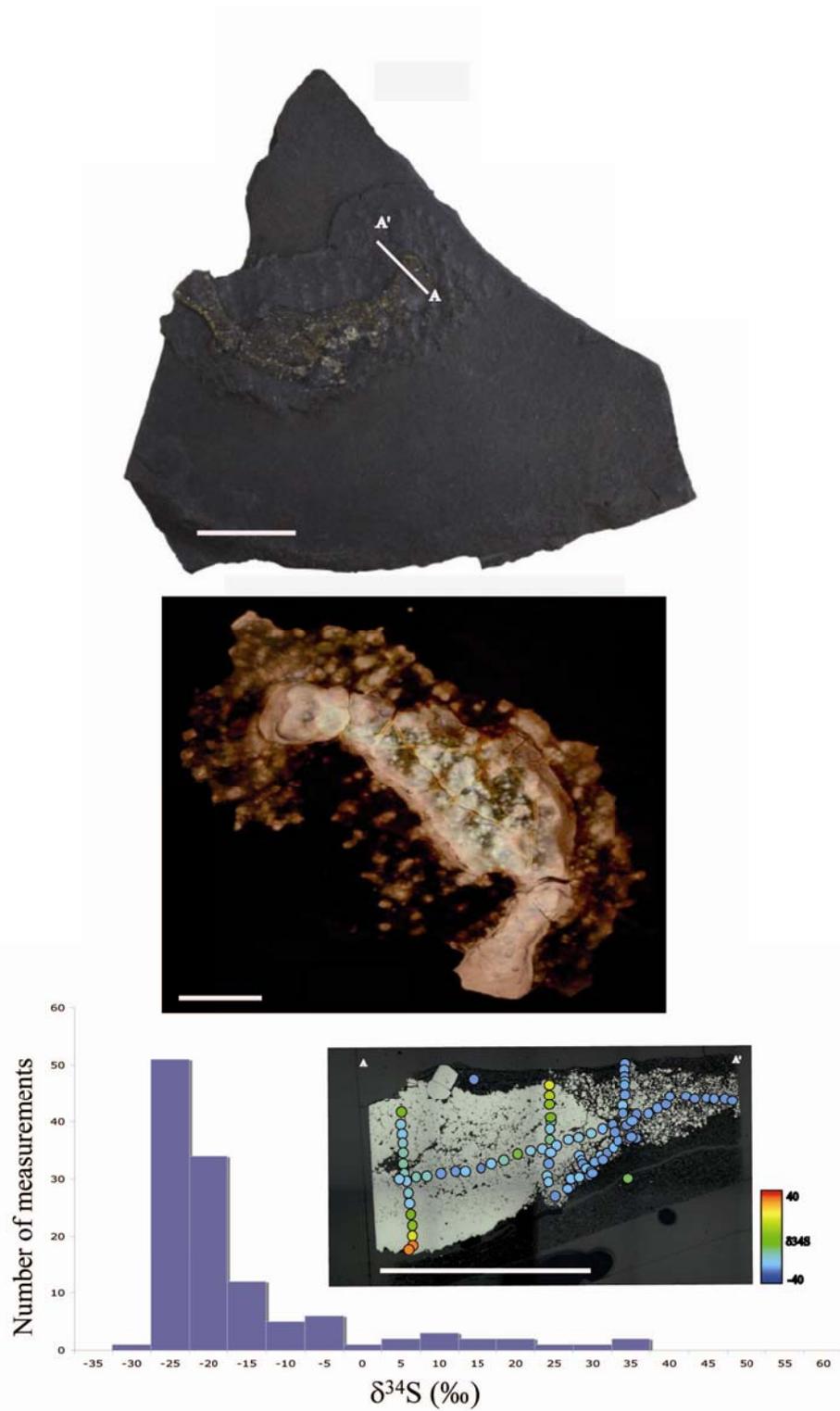


Figure S7. The A-A' section through the specimen G-FB2-s-52 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

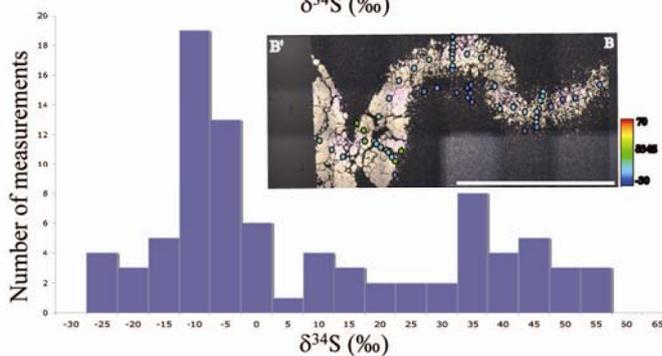
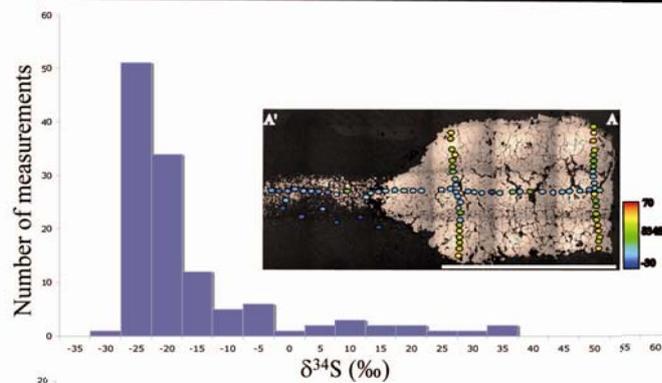
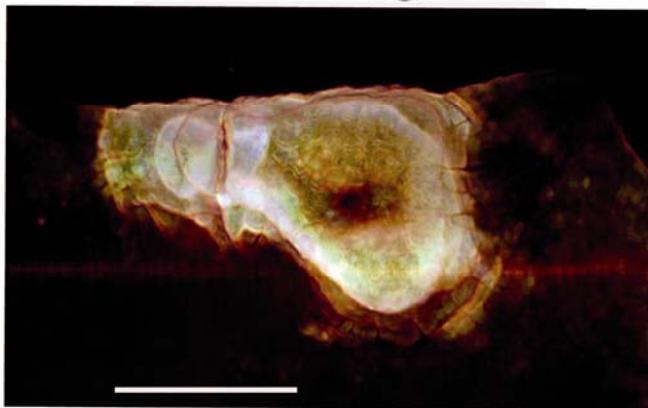


Figure S8. The A-A' and B-B' sections through the specimen G-FB2-s-57 and the corresponding histograms of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the maps was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

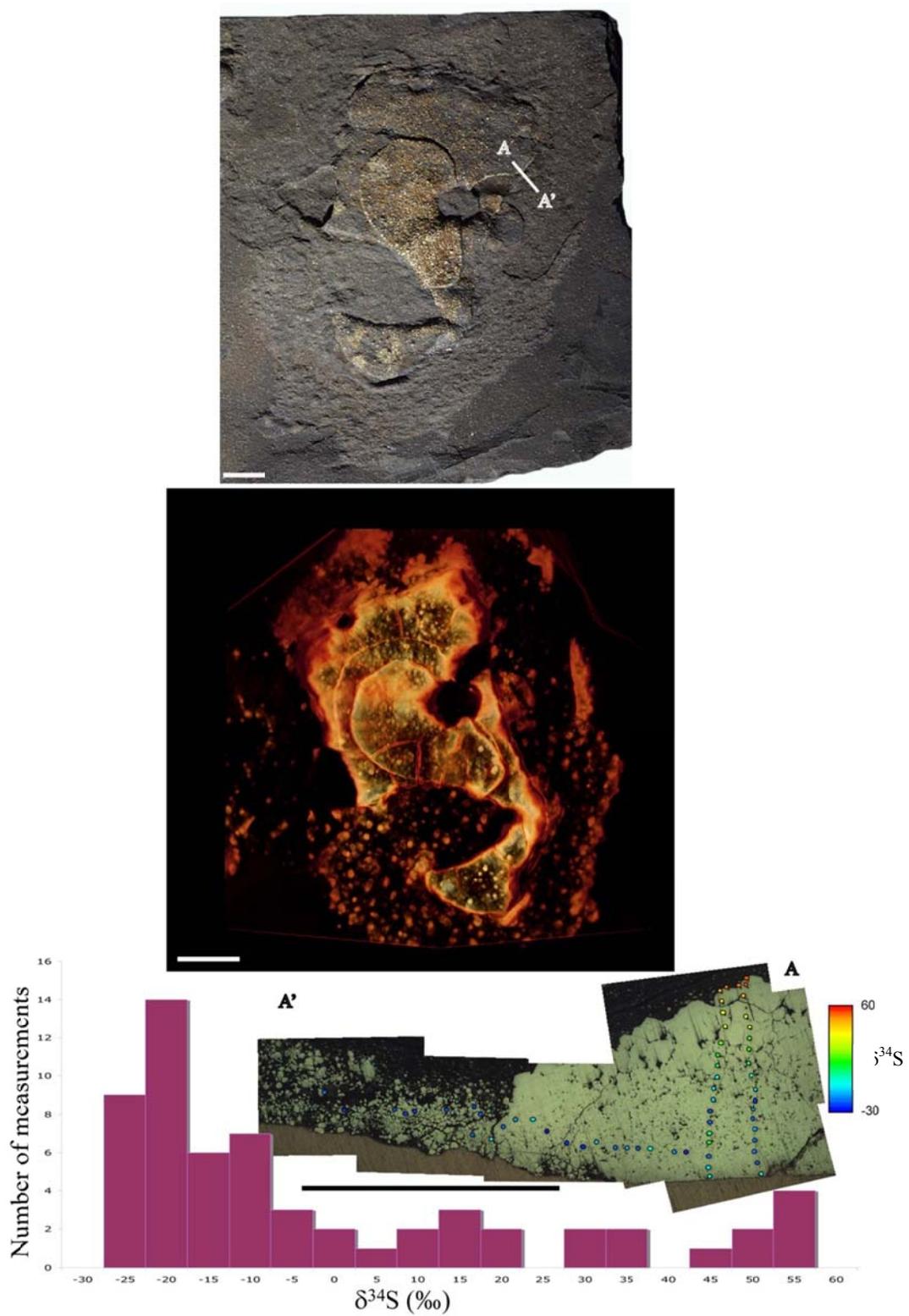


Figure S9. The A-A' section through the specimen G-FB2-s-575 and the corresponding histogram of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the map was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

1.2 - Analysis of a Carboniferous pyrite sun and of a Jurassic pyrite flower

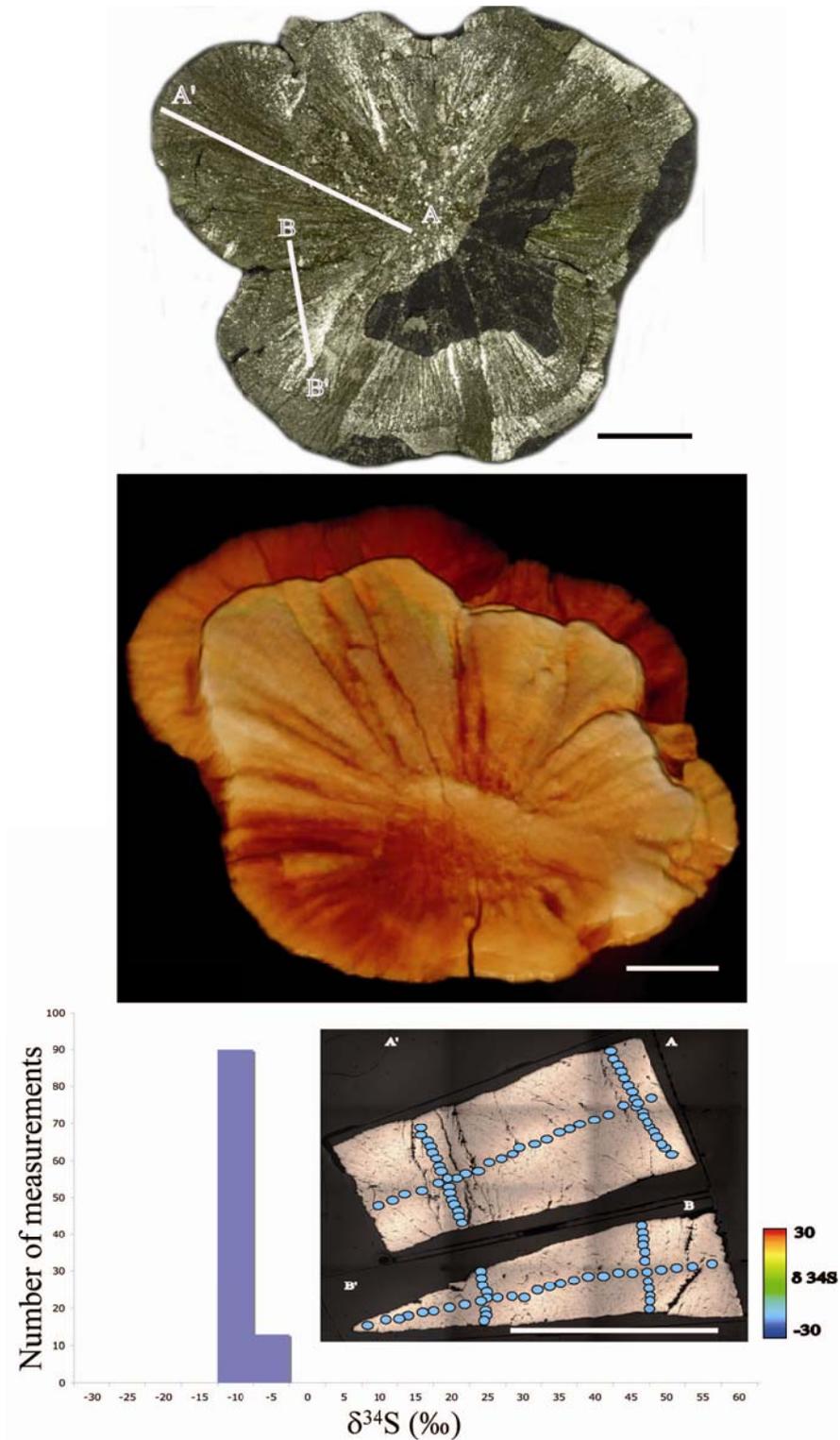


Figure S10. The A-A' and B-B' sections through the Upper Carboniferous pyrite sun of Sparta, Illinois (Swedish museum number SMNH X4450) and the corresponding histograms of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the maps was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.

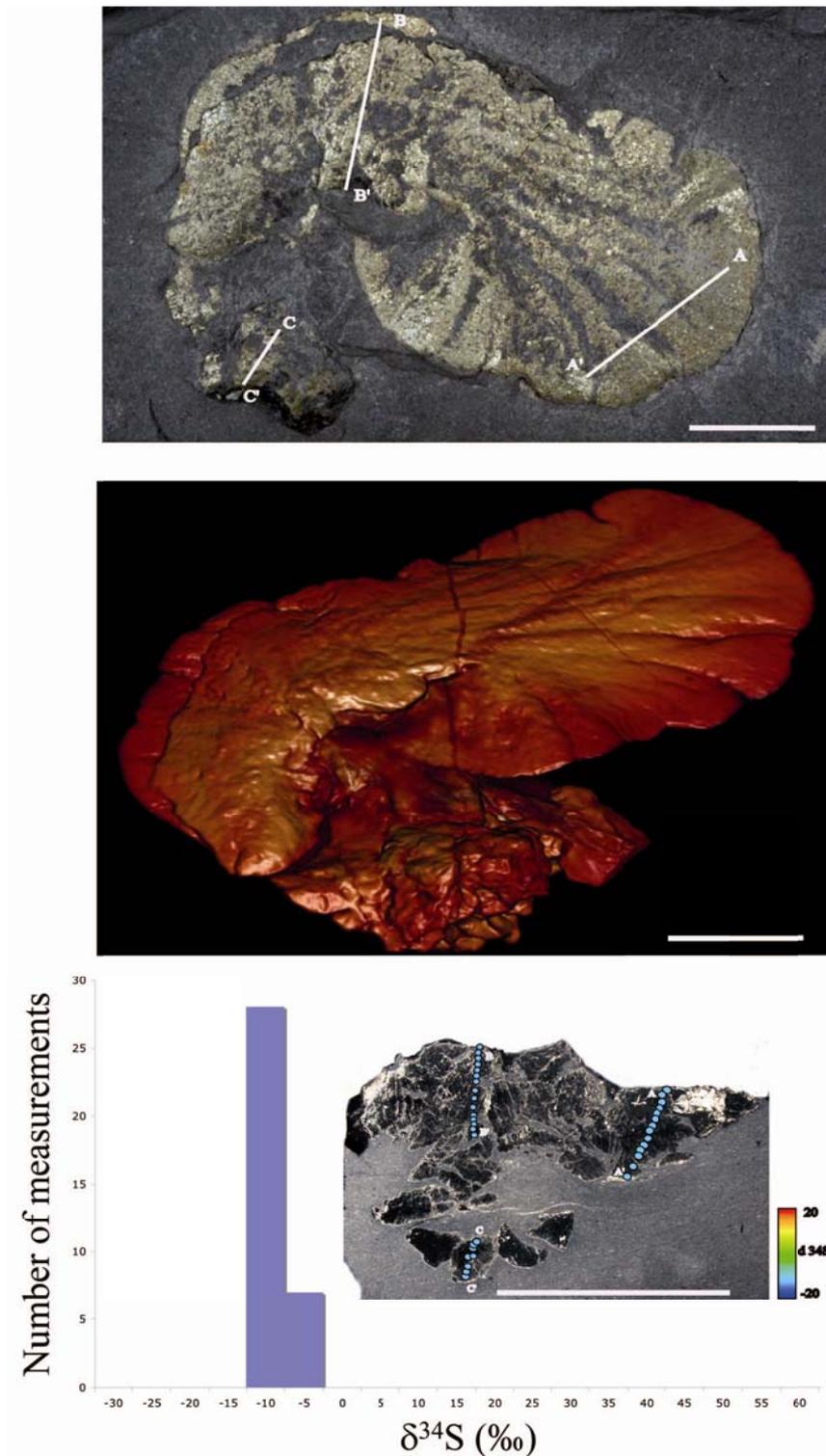


Figure S11. The A-A', B-B' and C-C' sections through the pyrite flower from the Upper Jurassic Posidonia Shale, southern Germany (Swedish museum number SMNH X4449), and the corresponding histograms of $\delta^{34}\text{S}$ values (cf. Table S1). Distribution of S isotope values in the maps was rendered following a color scale increasing from dark blue to red. Scale bars are 1.0 cm.