 https://doi.org/10.1130/G39706.1

Supplementary Information

Overwriting of sedimentary magnetism by bacterially mediated mineral alteration

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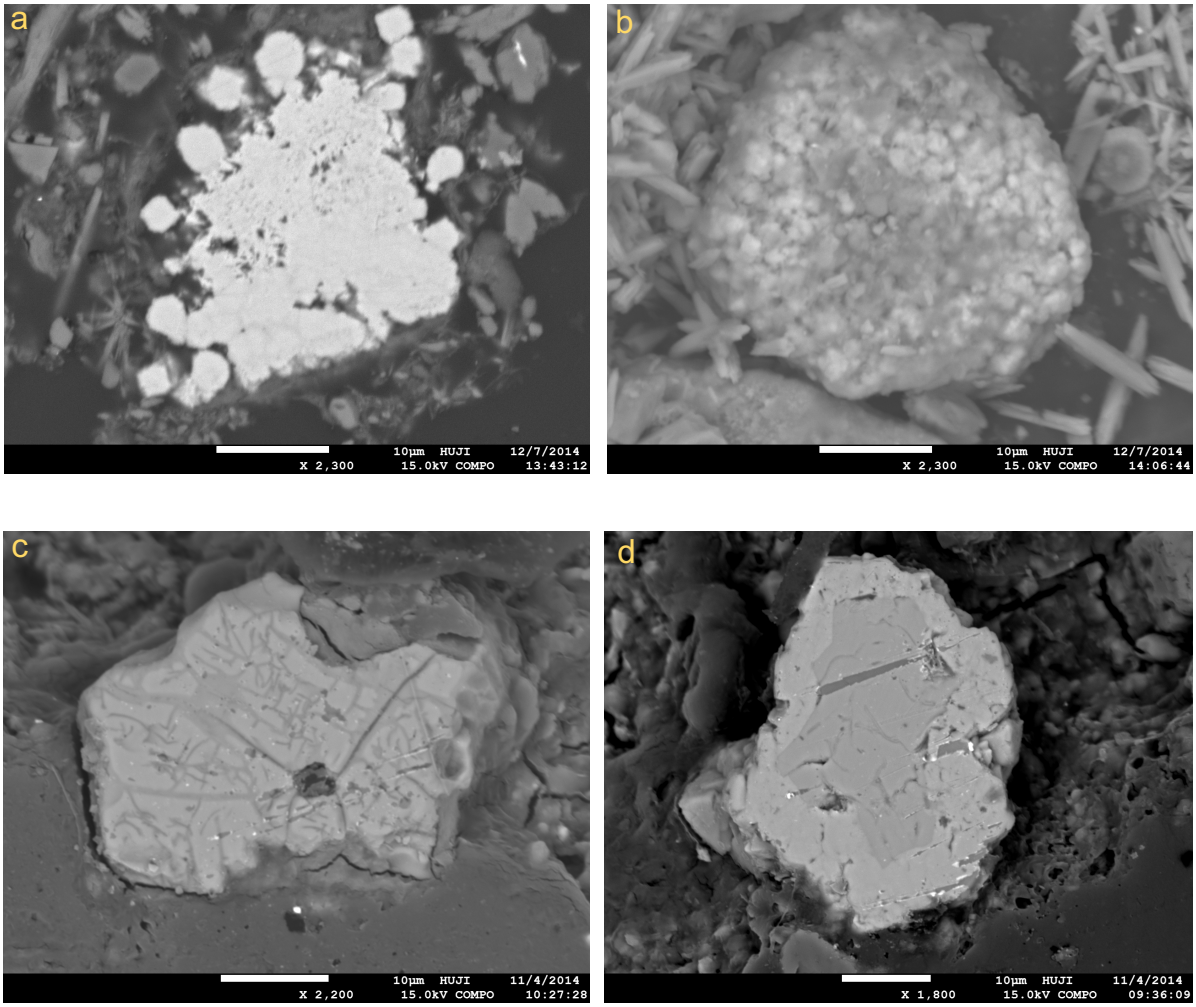

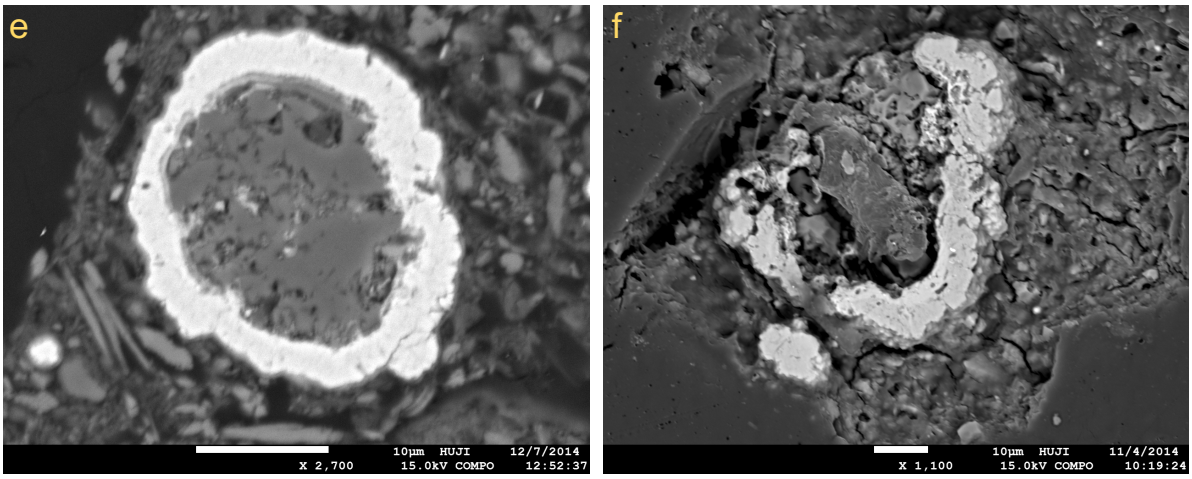

Figure DR1: Backscattered electron images of magnetic extracts from the Lisan Fm. (Last glacial). a) Framboidal pyrite overgrown by euhedral pyrite. b) Framboidal pyrite. c) Partially dissolved titanomagnetite. d) Pyrite overgrown on a partially dissolved titanomagnetite. e-f) Pyrite.

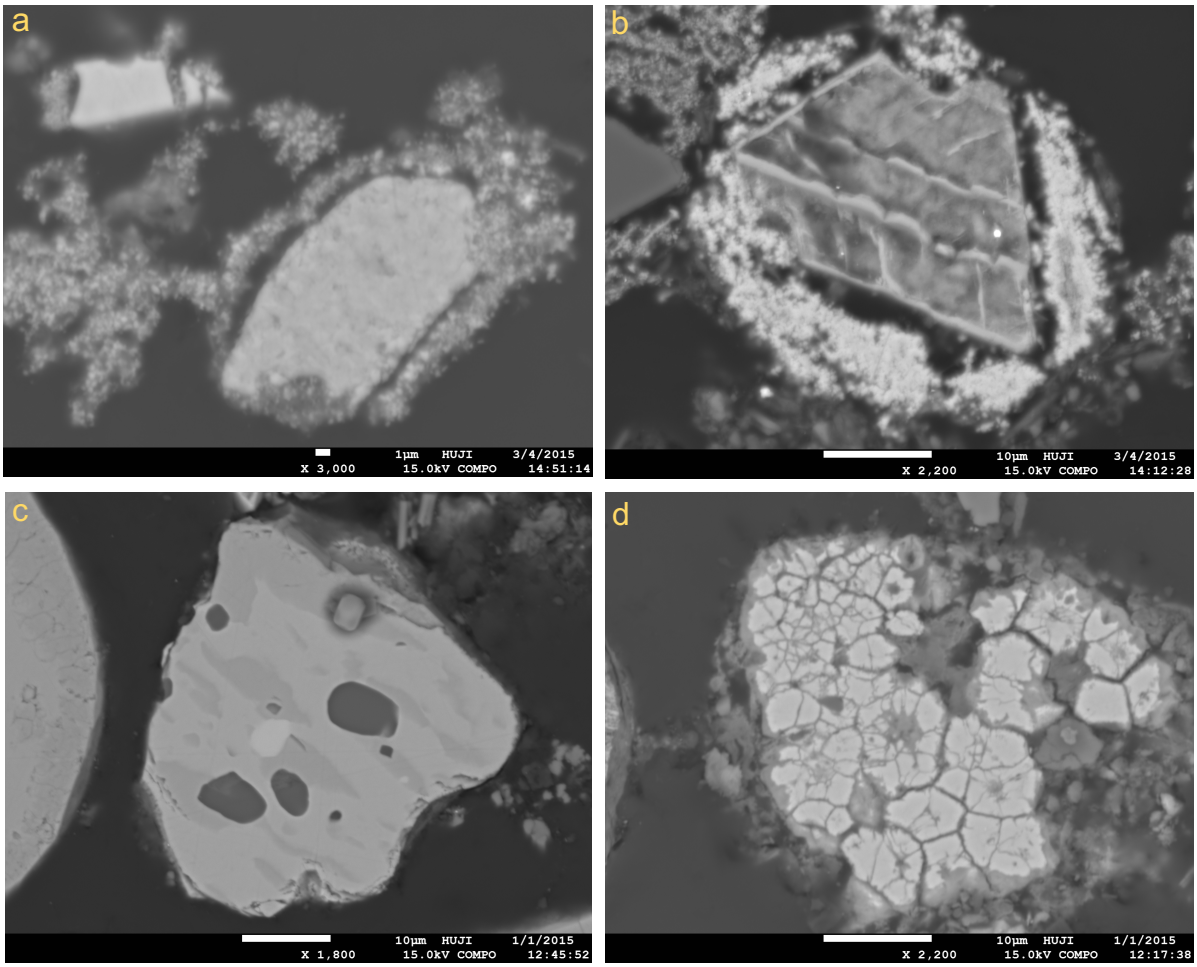

Figure DR2: Backscattered electron images of magnetic extracts from the Ze'elim Formation (Holocene). a-b) Titanomagnetite with rims of greigite. c) Undissolved titanomagnetite. d) Greigite.

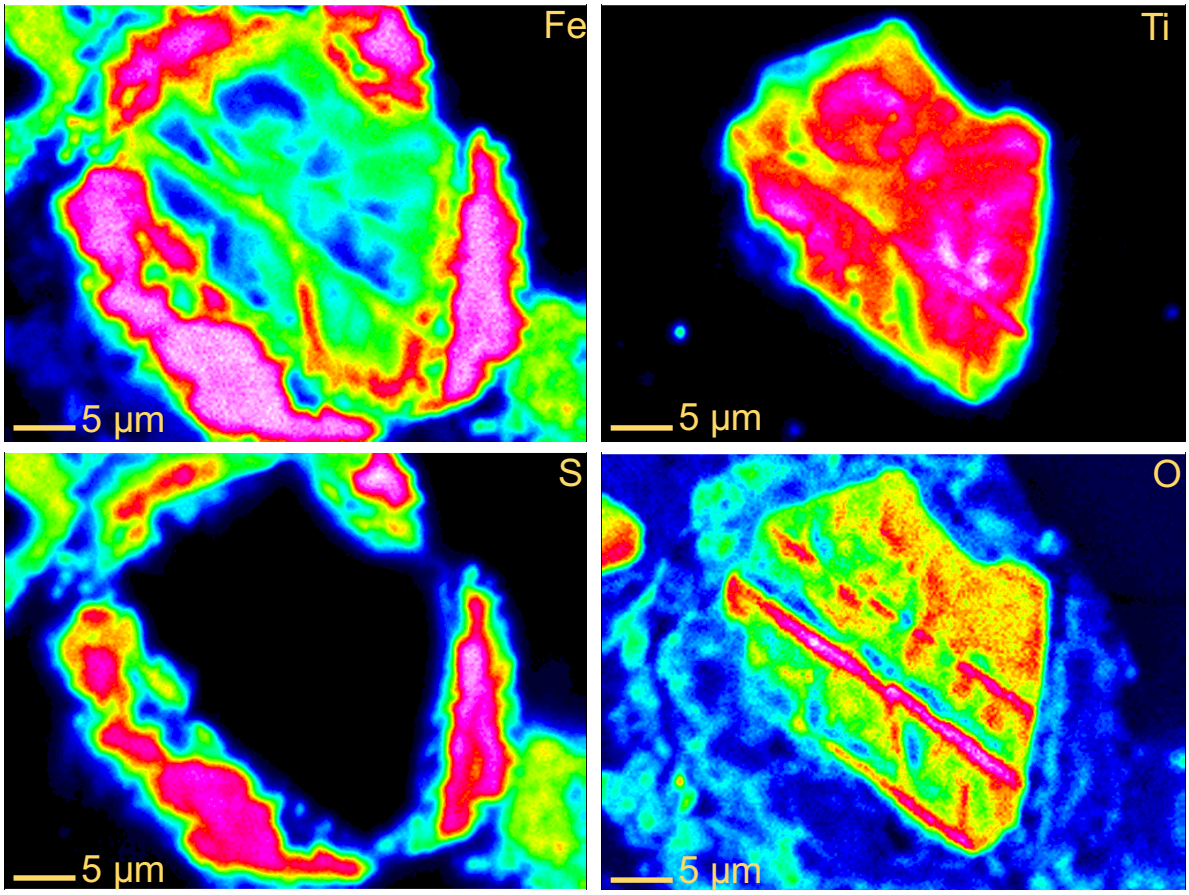

Figure DR3: WDS color mapping of the grain shown in figure DR2b. Each image represents the relative distribution of one of the elements: Fe, Ti, S, O.