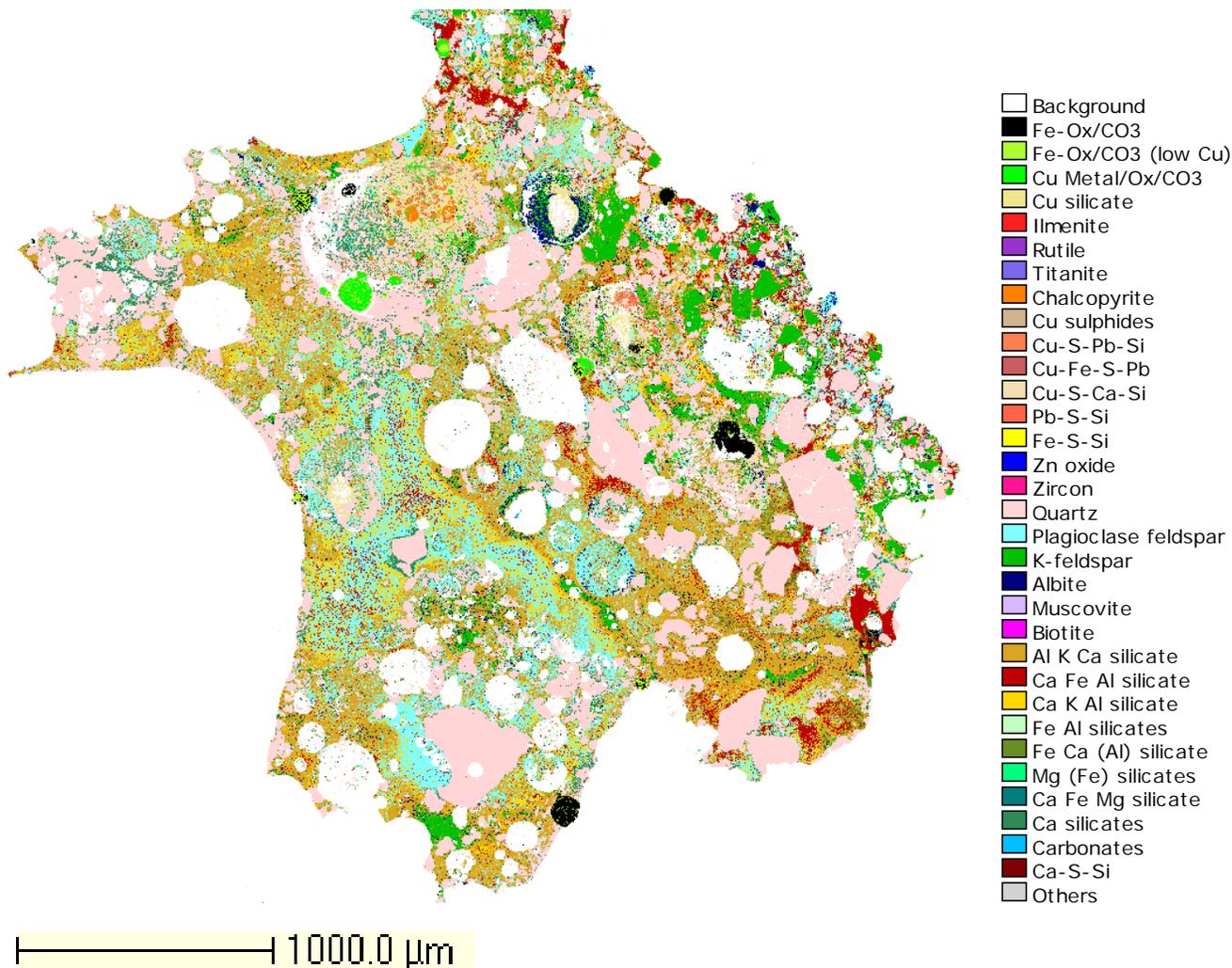


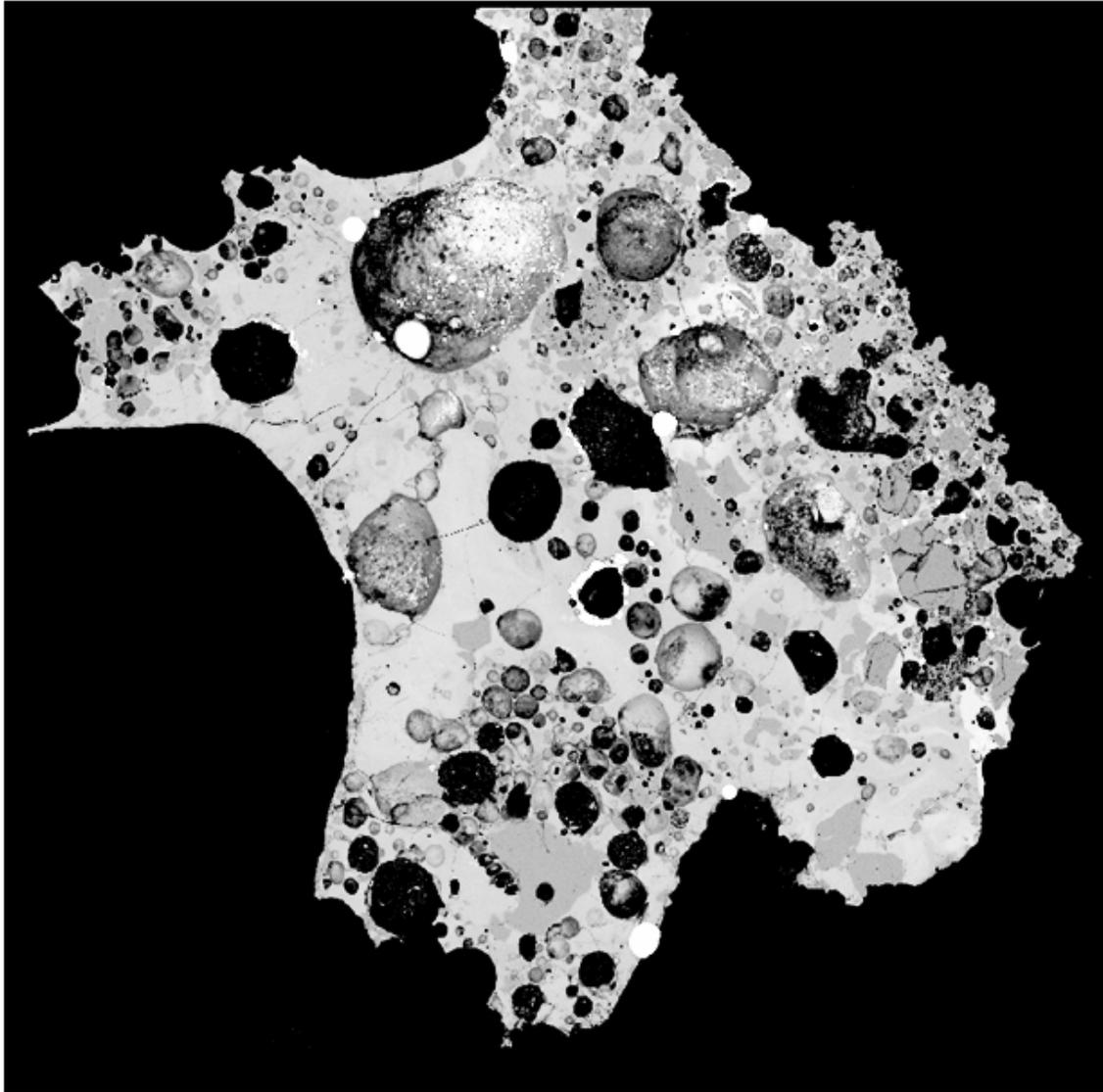
## QEMSCAN<sup>®</sup> analysis of Trinitite samples Fieldscan false colour images at 5 micron X-ray resolution

Gavyn K Rollinson<sup>1</sup> and Duncan Pirrie<sup>2</sup>

<sup>1</sup>Camborne School of Mines, University of Exeter and <sup>2</sup>Helford Geoscience LLP



Sample A



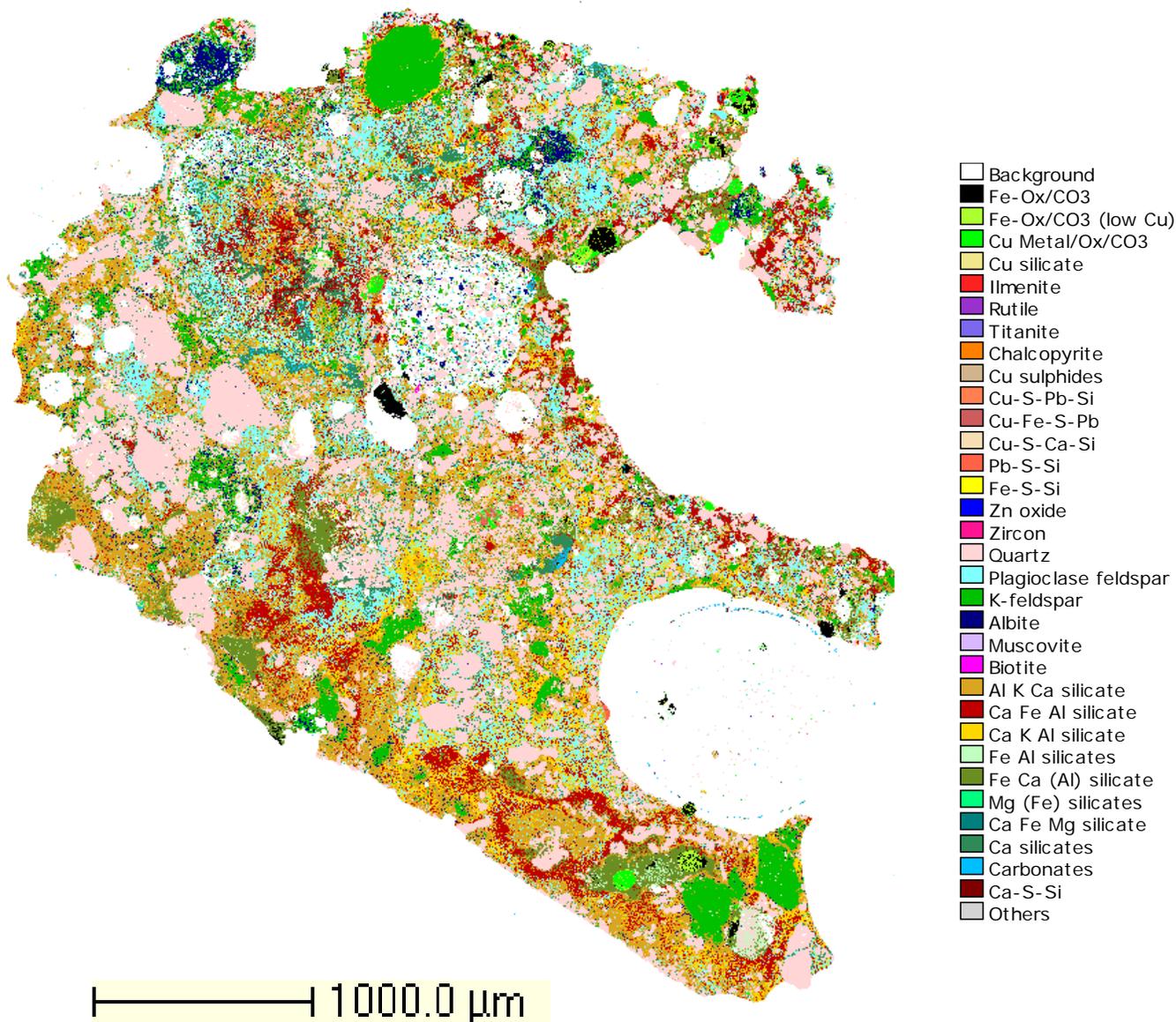
1000  $\mu\text{m}$

**Sample A: BSE Map**

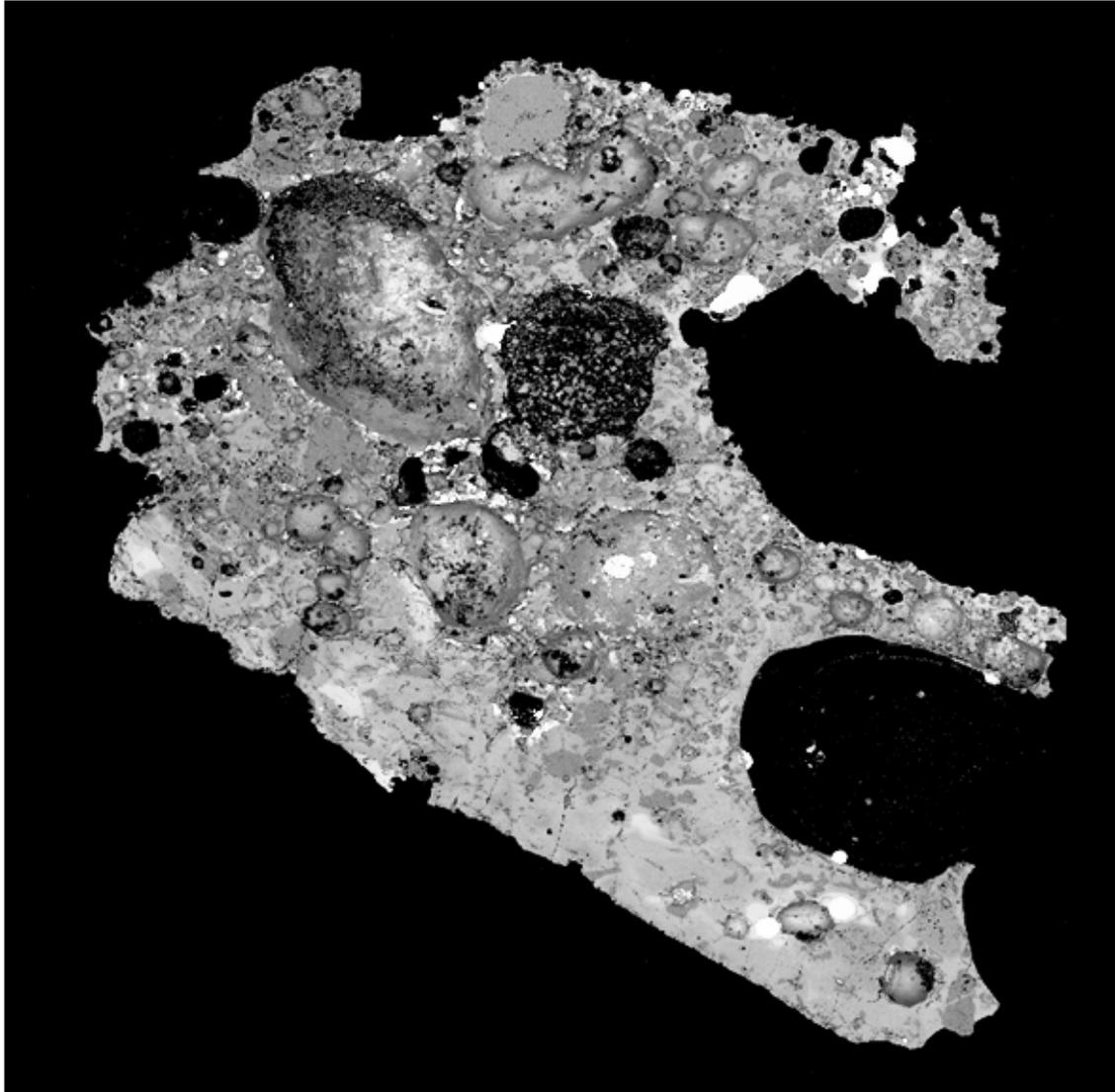


**Sample A: Scanned Thin Section**

## Fieldscan false colour images at 5 micron X-ray resolution



Sample B



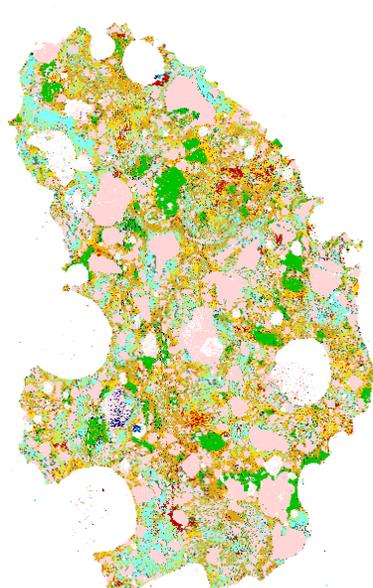
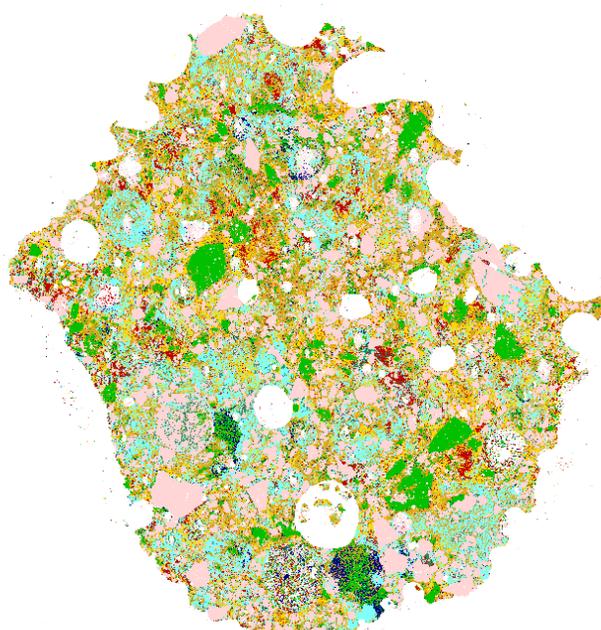
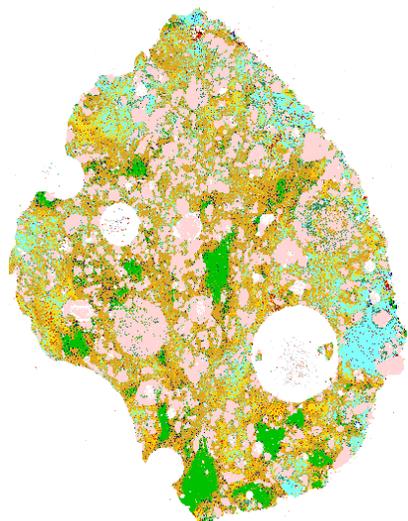
1000  $\mu\text{m}$

**Sample B: BSE Map**



**Sample B: Scanned Thin Section**

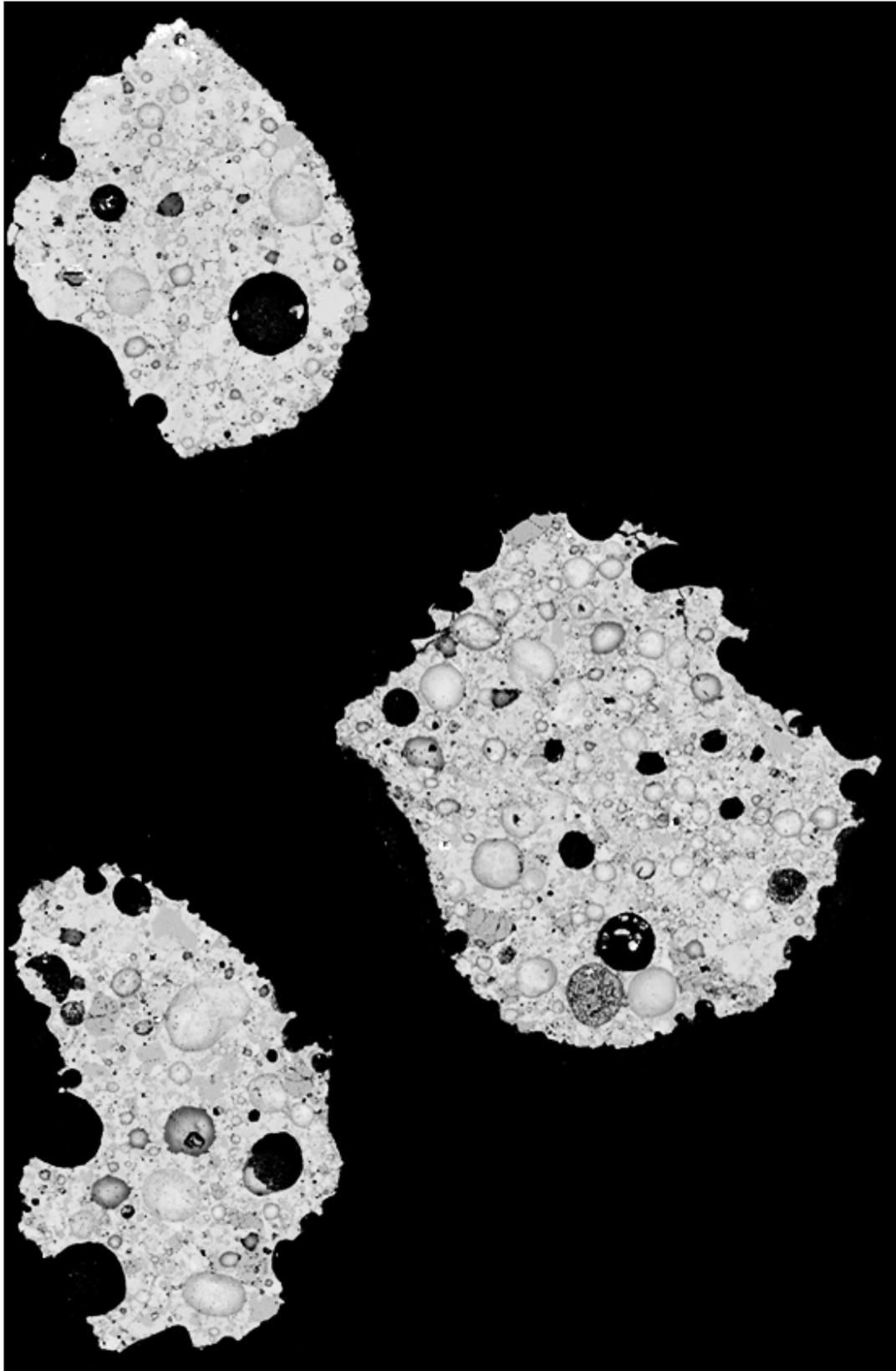
## Fieldscan false colour images at 5 micron X-ray resolution



- Background
- Fe-Ox/CO<sub>3</sub>
- Fe-Ox/CO<sub>3</sub> (low Cu)
- Cu Metal/Ox/CO<sub>3</sub>
- Cu silicate
- Ilmenite
- Rutile
- Titanite
- Chalcopyrite
- Cu sulphides
- Cu-S-Pb-Si
- Cu-Fe-S-Pb
- Cu-S-Ca-Si
- Pb-S-Si
- Fe-S-Si
- Zn oxide
- Zircon
- Quartz
- Plagioclase feldspar
- K-feldspar
- Albite
- Muscovite
- Biotite
- Al K Ca silicate
- Ca Fe Al silicate
- Ca K Al silicate
- Fe Al silicates
- Fe Ca (Al) silicate
- Mg (Fe) silicates
- Ca Fe Mg silicate
- Ca silicates
- Carbonates
- Ca-S-Si
- Others

1000.0 μm

**Sample C**



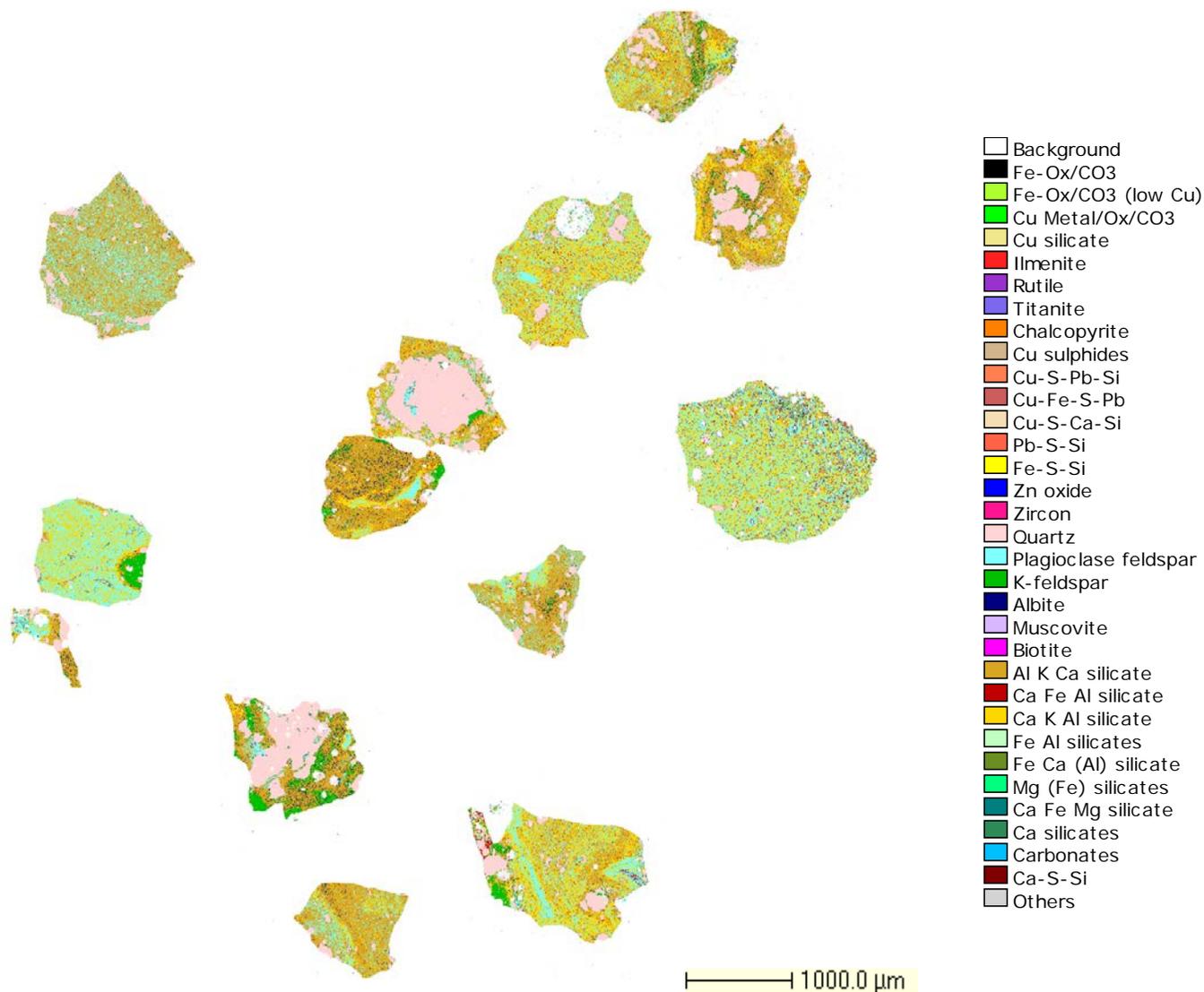
1000.0 μm

**Sample C: BSE Map**

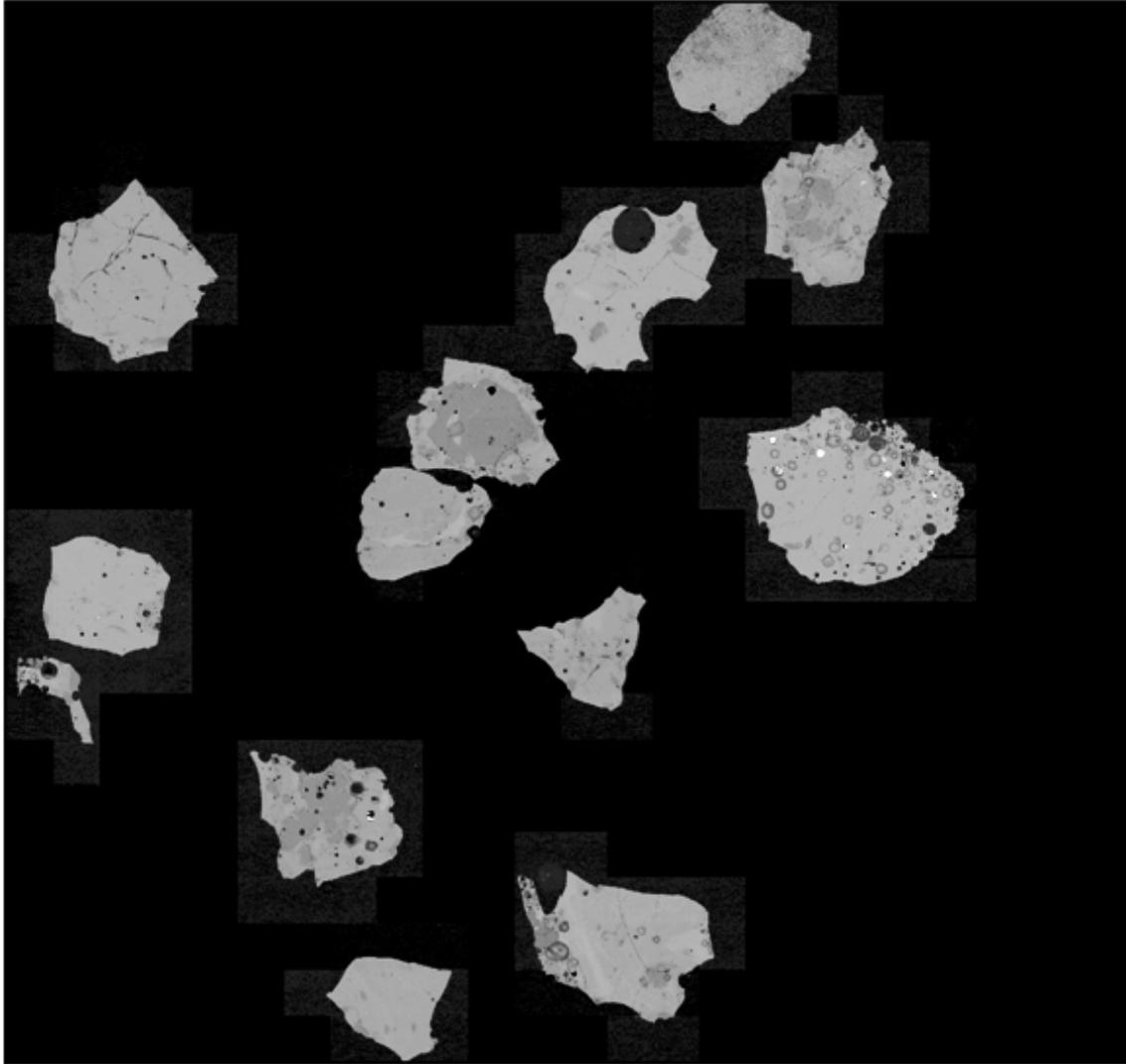


**Sample C: Scanned Thin Section**

## Fieldscan false colour images at 5 micron X-ray resolution



**Sample D**



1000.0  $\mu\text{m}$

**Sample D: BSE Map**



**Sample D: Scanned Thin Section**