

## REVISION 1

### Morin-type transition in 5C pyrrhotite

C R S Haines<sup>1\*</sup>, G I Lampronti<sup>1</sup>, W T Klooster<sup>2</sup>, S J Coles<sup>2</sup>, S E Dutton<sup>3</sup>, and M A Carpenter<sup>1</sup>

<sup>1</sup>*Department of Earth Sciences, University of Cambridge, Cambridge, UK*

<sup>2</sup>*UK National Crystallographic Service, Chemistry, Faculty of*

*Natural and Environmental Sciences,*

*University of Southampton, SO17 1BJ, UK*

<sup>3</sup>*Department of Physics, University of Cambridge, Cambridge, UK*

### Supplemental Information

In order to address any concerns over the homogeneity of the chemical composition of the transformed 5C pyrrhotite samples we present in the supplementary information a SEM-BSE (Fig. S1) map of the surface of the larger (mass ~ 9.2mg) crystal. There is no discernible zoning or inhomogeneity.

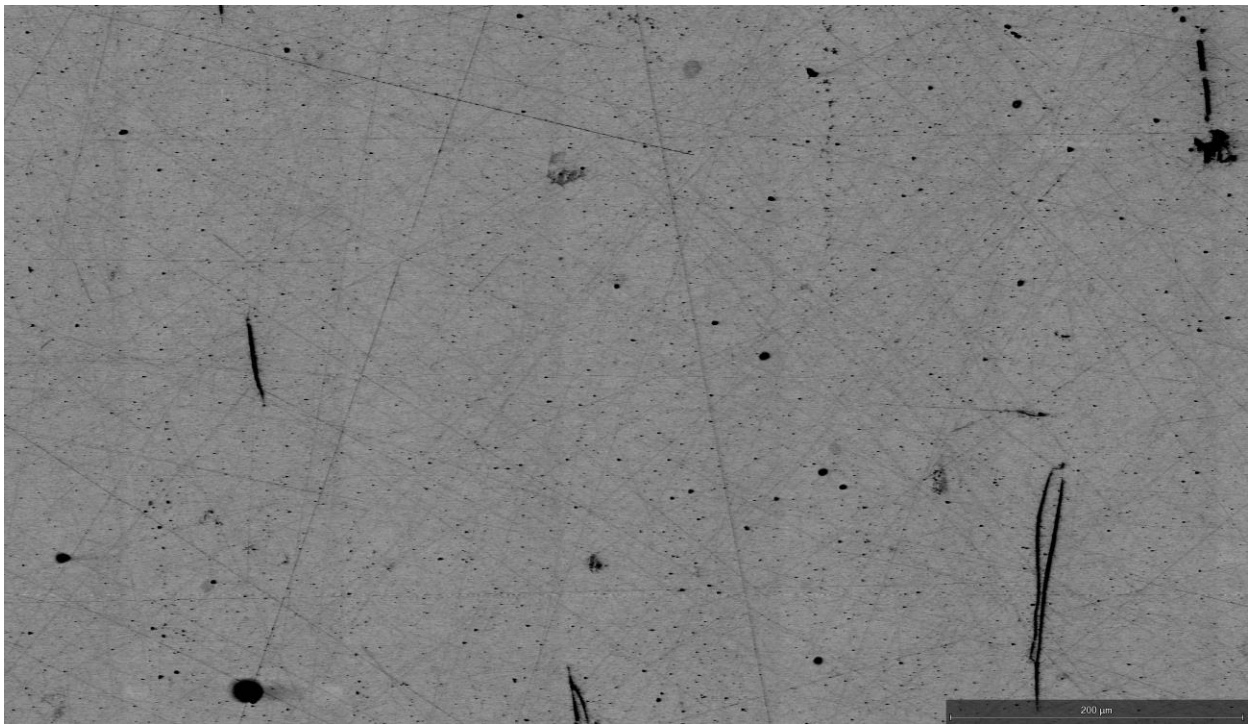


Figure S1. SEM-BSE map of most of the surface of the larger (mass ~ 9.2 mg) sample of 5C pyrrhotite. The contrast has been set so high that the stitching and polishing marks are clearly visible. There are some impurities on the surface and some very tiny possible inclusions. There is no evidence of zoning or of inhomogeneity in the chemical composition of the sample. BSE images were collected on an FEI Quanta 650FEG SEM (acceleration voltage 5 kV, beam spot size 4.5, working distance 13 mm).