Interactive comment on "The Rocklea Dome 3D Mineral Mapping Test Data Set" *by* Carsten Laukamp et al.

Anonymous Referee #1

Received and published: 5 January 2021

My field of expertise covers geostatistics, but not geology, so my review will not cover the geological aspects of the work.

The article describes publicly accessible datasets for characterisation of mineral assemblages and lithologies in Australia. The open access dataset is obtained by combining several data sources and provides a state-of-the-art dataset for geological modeling. Standard techniques are used for validation and verification. The presentation of the manuscript is clear and concise. The Introduction highlights the benefit of the study and specifically of the use of hyperspectral data.

The strong point of the study lies perhaps in the efforts made by the authors to present the datasets through very informative figures (e.g. Fig.4), which are properly described in the text. The combination of surface and subsurface observations into 3D maps is

well described.

In conclusion, the study is valuable. My advice to the editor is to publish it as it is.