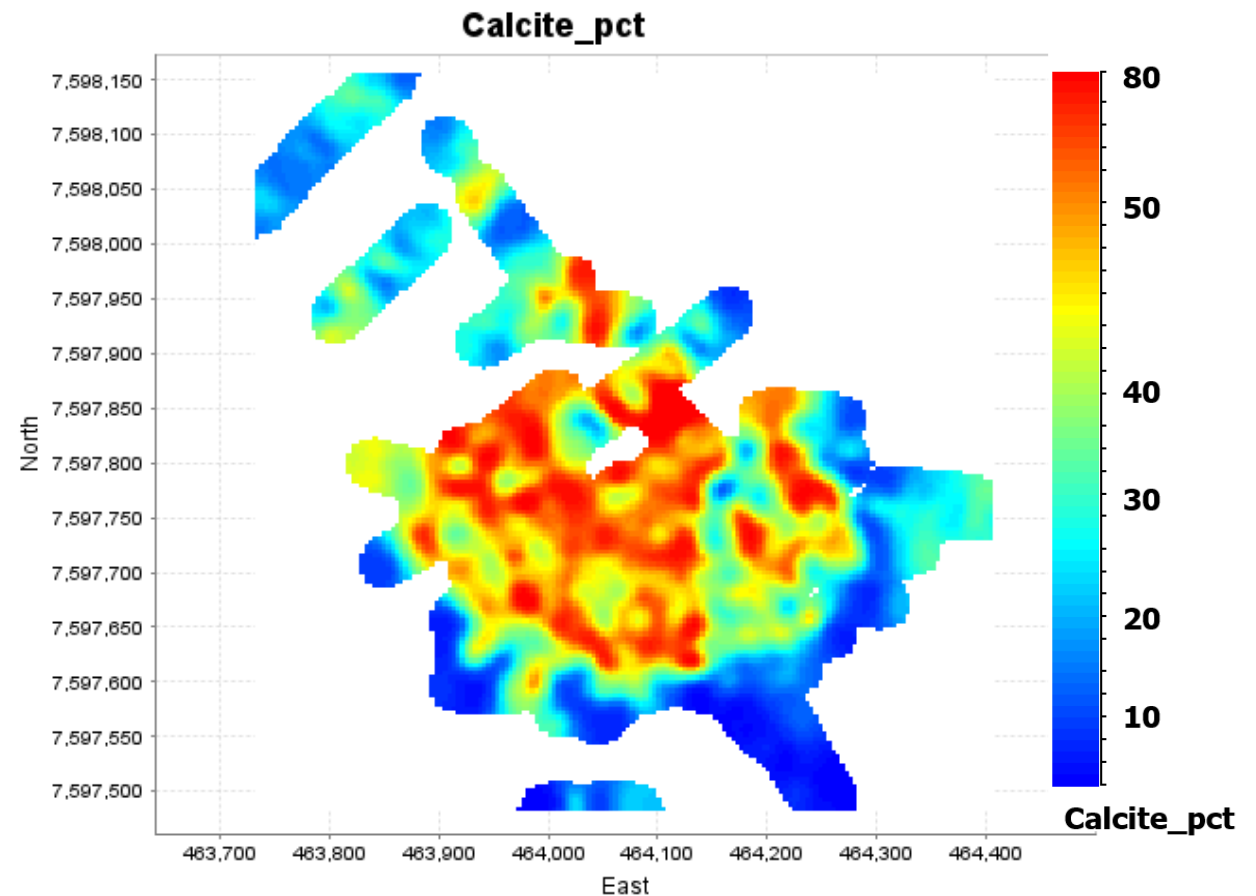
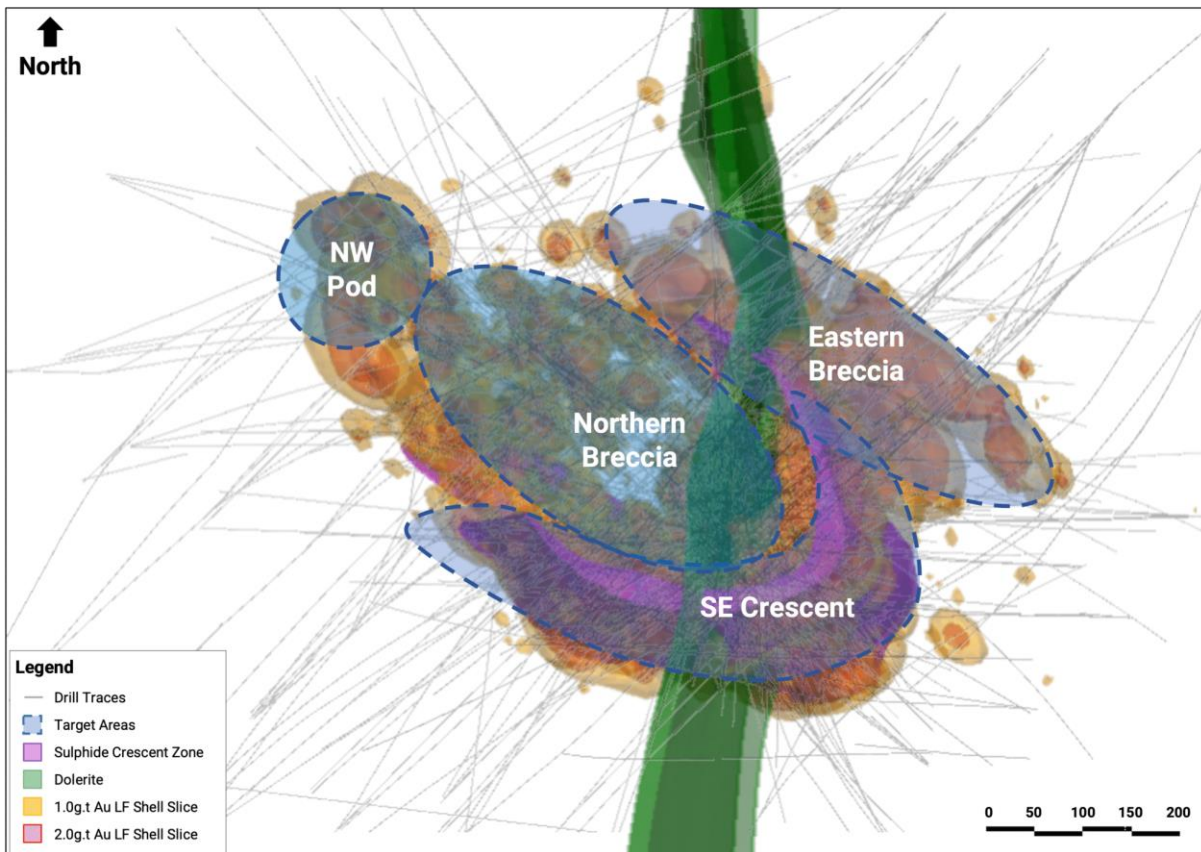


Comet Case Study; Havieron

This is a case study showing quantitative mineralogy of the Havieron Deposit using 4 acid digest ICP assay data recently released to open file.



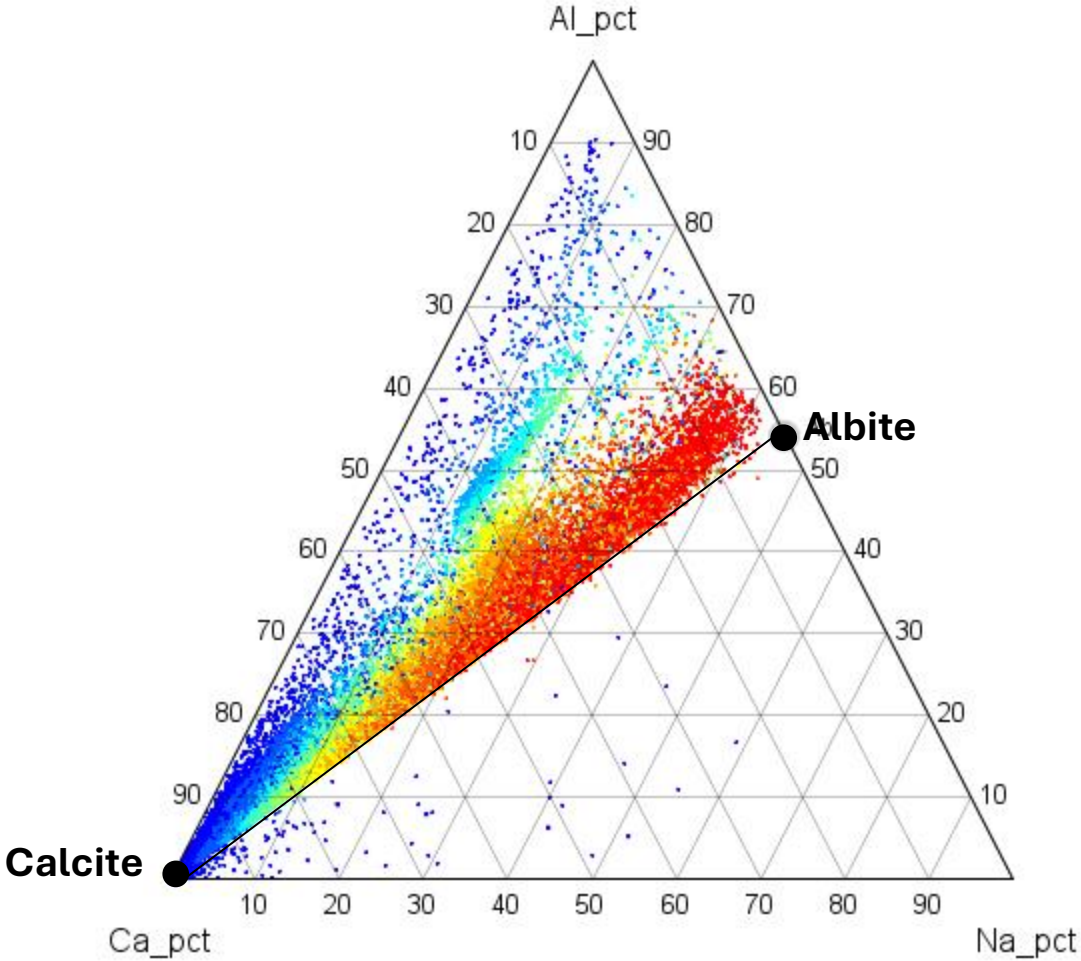
Havieron is a recently discovered, Neoproterozoic breccia pipe system located in the Patterson Province of Western Australia. Greatland announced a resource of 7 Moz Au and 275 kt Cu, mostly within a portion of the breccia referred to as the Crescent Zone (<https://www.greatland.com.au/assets/havieron/>). The breccia is centered on a mafic intrusion within laminated clastic sediments of the Malu formation (host rocks to Telfer). The mafic intrusion is entirely brecciated. The mafic clasts, along with clasts of the wall rock are cemented within a calcite matrix. Coarse Ca-Mg amphibole has grown out from the clast margins into the calcite matrix. Au-Cu mineralization is associated with pyrrhotite, especially along the Crescent Zone around the southern margin of the breccia column. Sediments around the margin of the breccia are intensely albitised.

The mineralogy of the system includes calcite-amphibole-albite-biotite-chlorite-quartz-pyrrhotite-chalcopryite.

The solid solution compositions of the amphibole and biotite can be estimated reasonably well from plots of the major element analyses.

Analyses from open file data were loaded into the Comet software and converted to estimated bulk mineralogy.

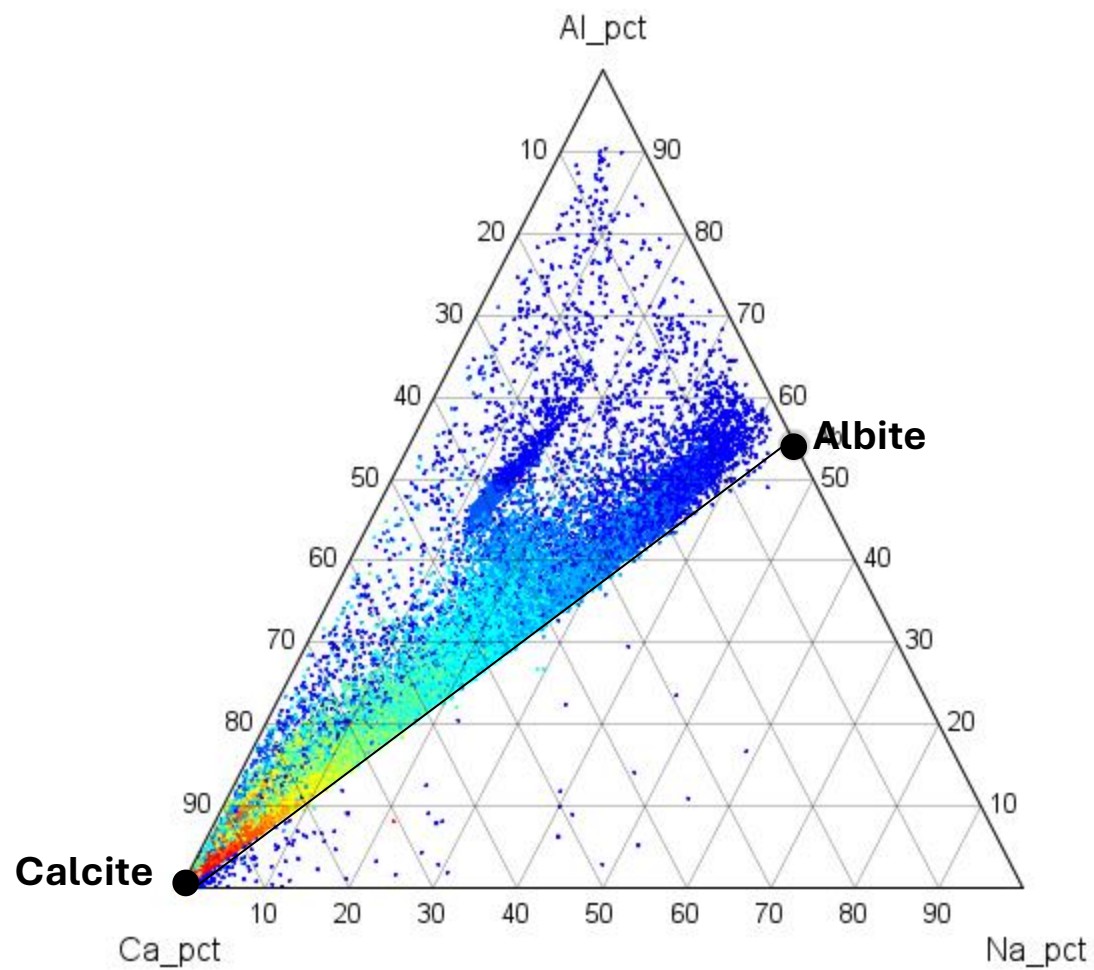
Albite



Albite_pct 10 Equal Bins

- Albite_pct to 5.7
- Albite_pct to 11.72
- Albite_pct to 15.19
- Albite_pct to 17.77
- Albite_pct to 21.35
- Albite_pct to 25.17
- Albite_pct to 29.52
- Albite_pct to 35.19
- Albite_pct to 43.56
- Albite_pct to 84.17

Calcite

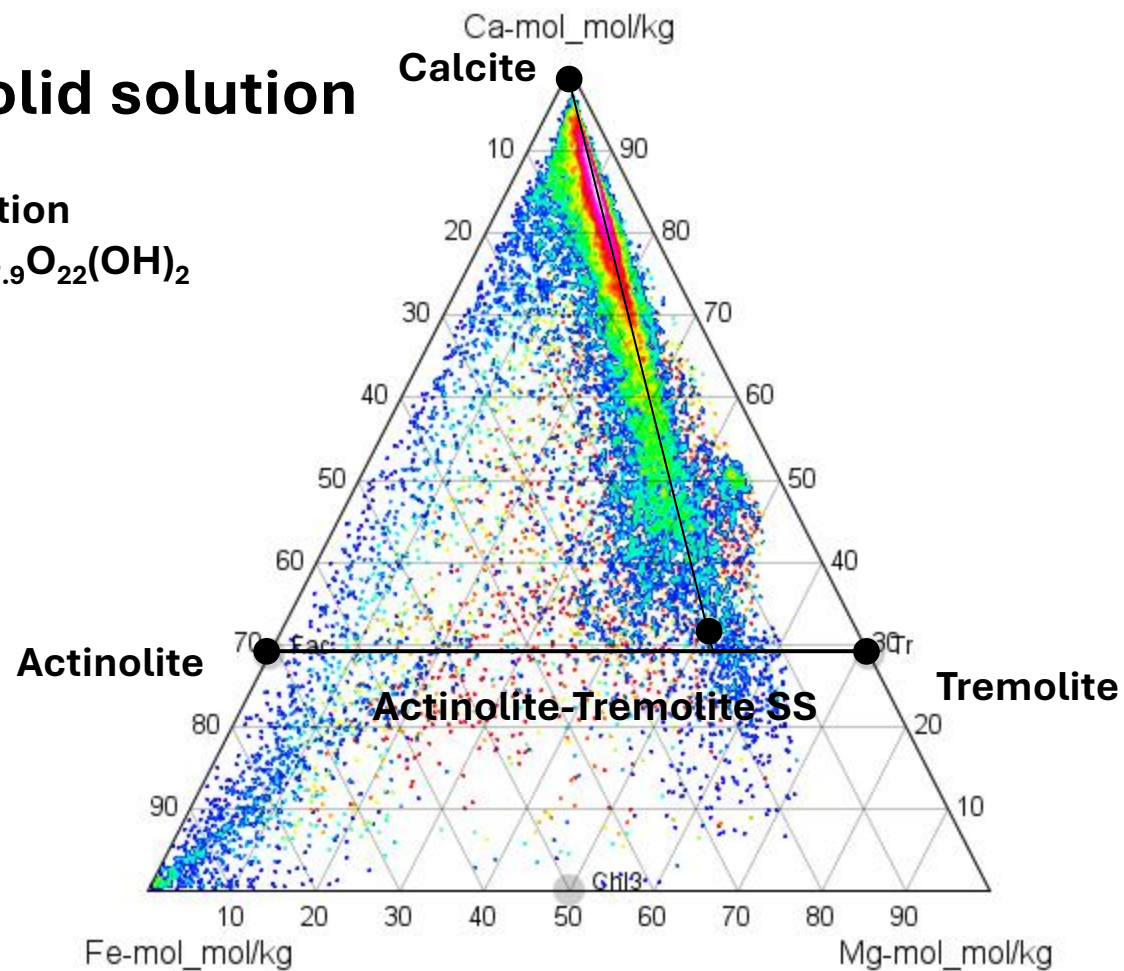
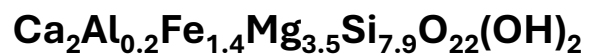


Calcite_pct 10 Equal Bins

- Calcite_pct to 2.88
- Calcite_pct to 6.41
- Calcite_pct to 12.78
- Calcite_pct to 21.16
- Calcite_pct to 31.57
- Calcite_pct to 40.92
- Calcite_pct to 48.82
- Calcite_pct to 56.59
- Calcite_pct to 66.14
- Calcite_pct to 97.28

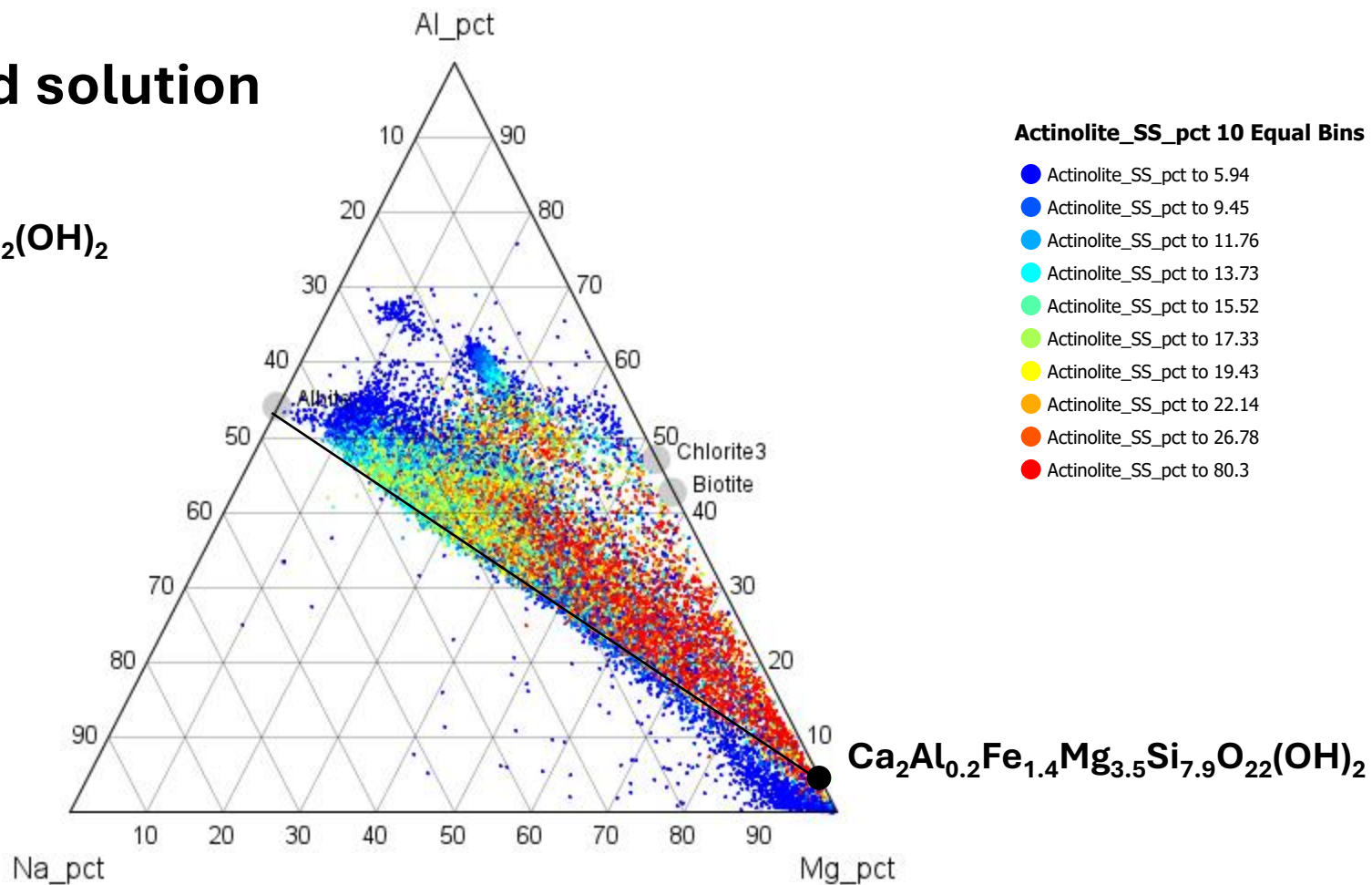
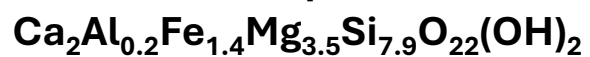
Actinolite_solid solution

Estimated composition

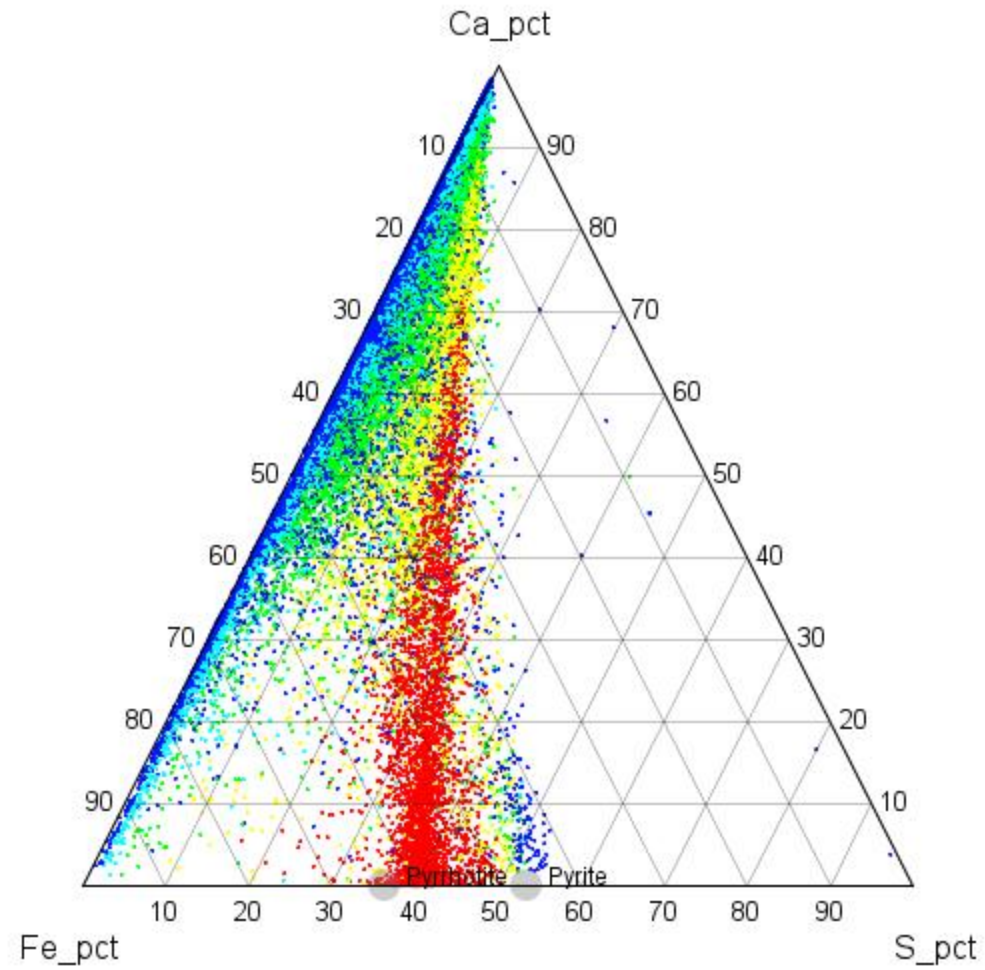


Actinolite_solid solution

Estimated composition



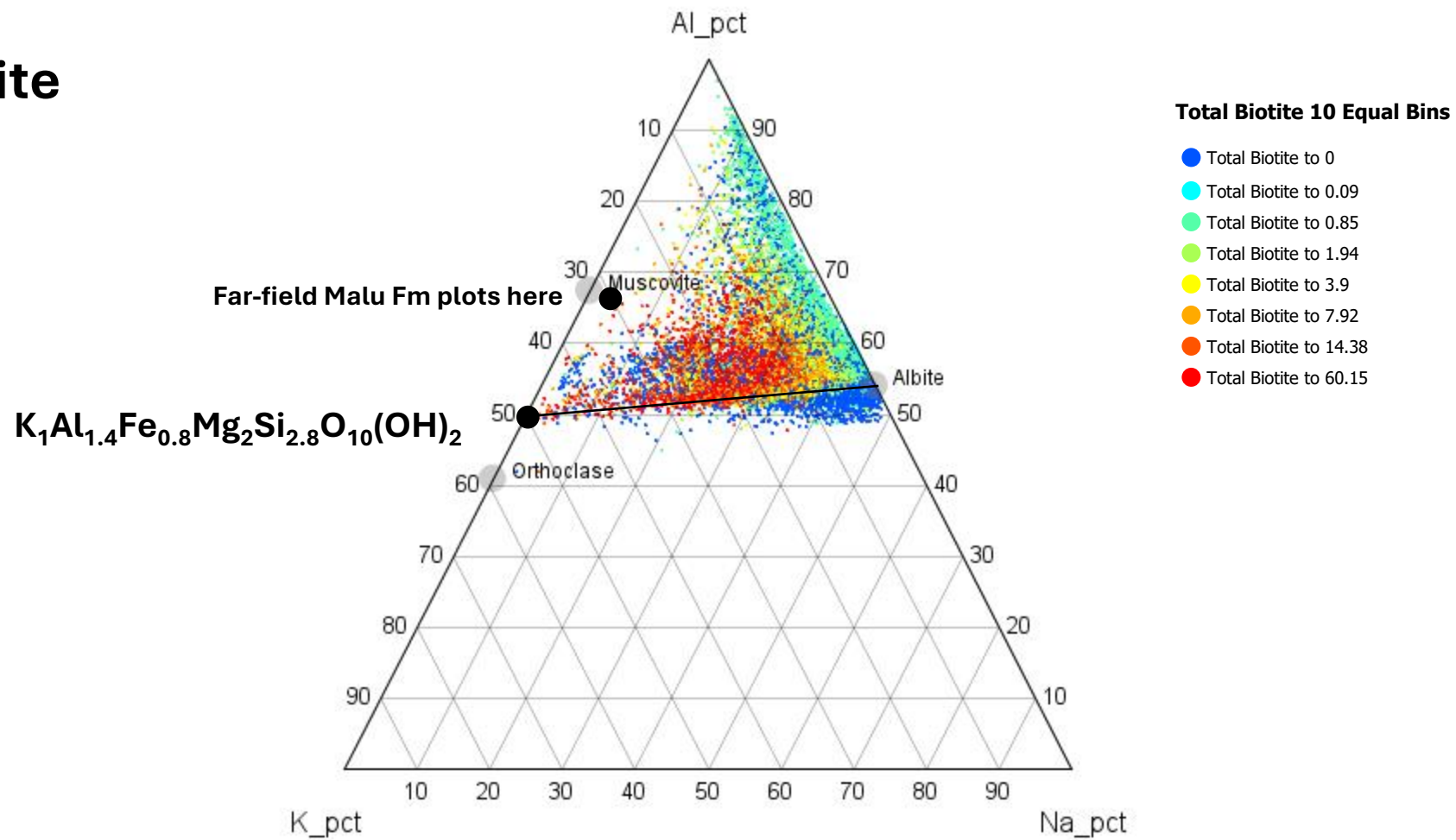
Pyrrhotite



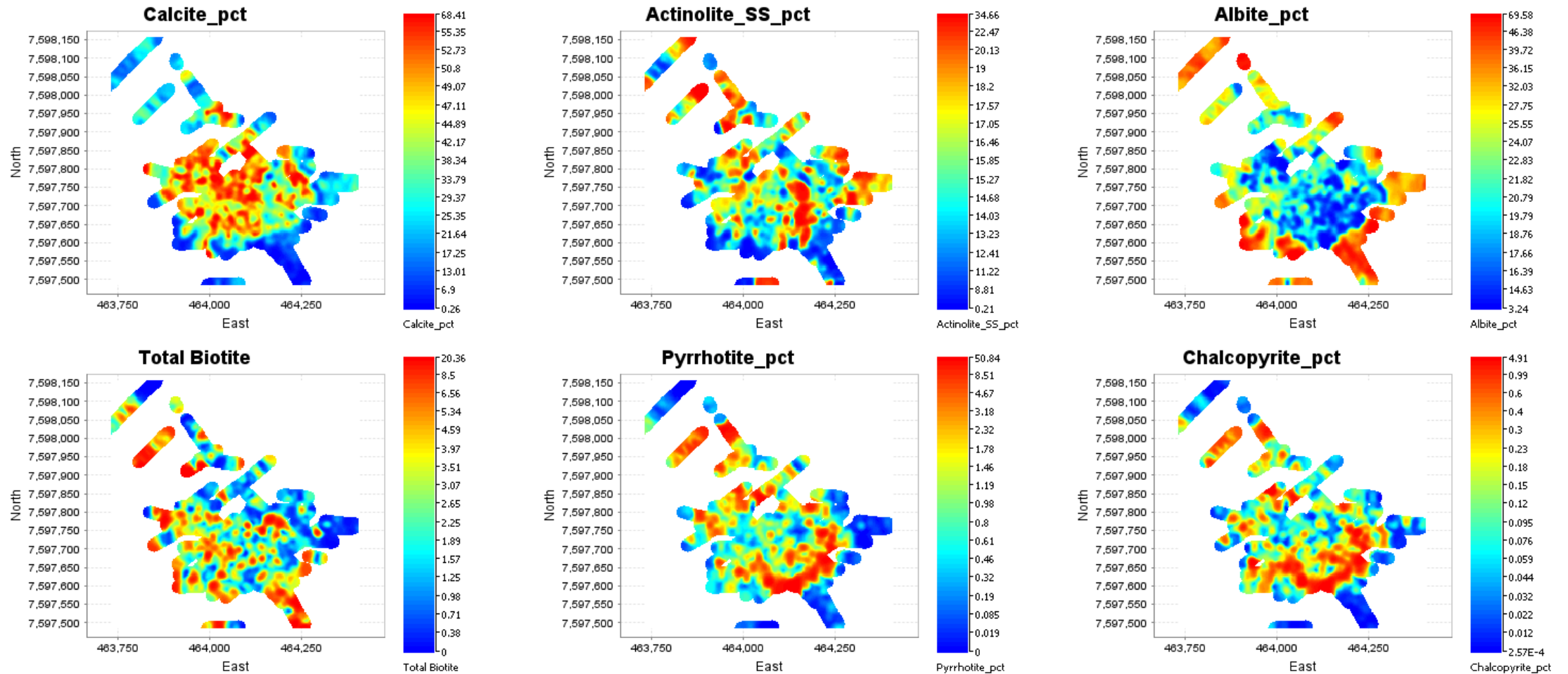
Pyrrhotite_pct

- Pyrrhotite_pct to 0.3
- Pyrrhotite_pct to 0.3 to 1
- Pyrrhotite_pct to 1 to 3
- Pyrrhotite_pct 3 to 10
- Pyrrhotite_pct >10

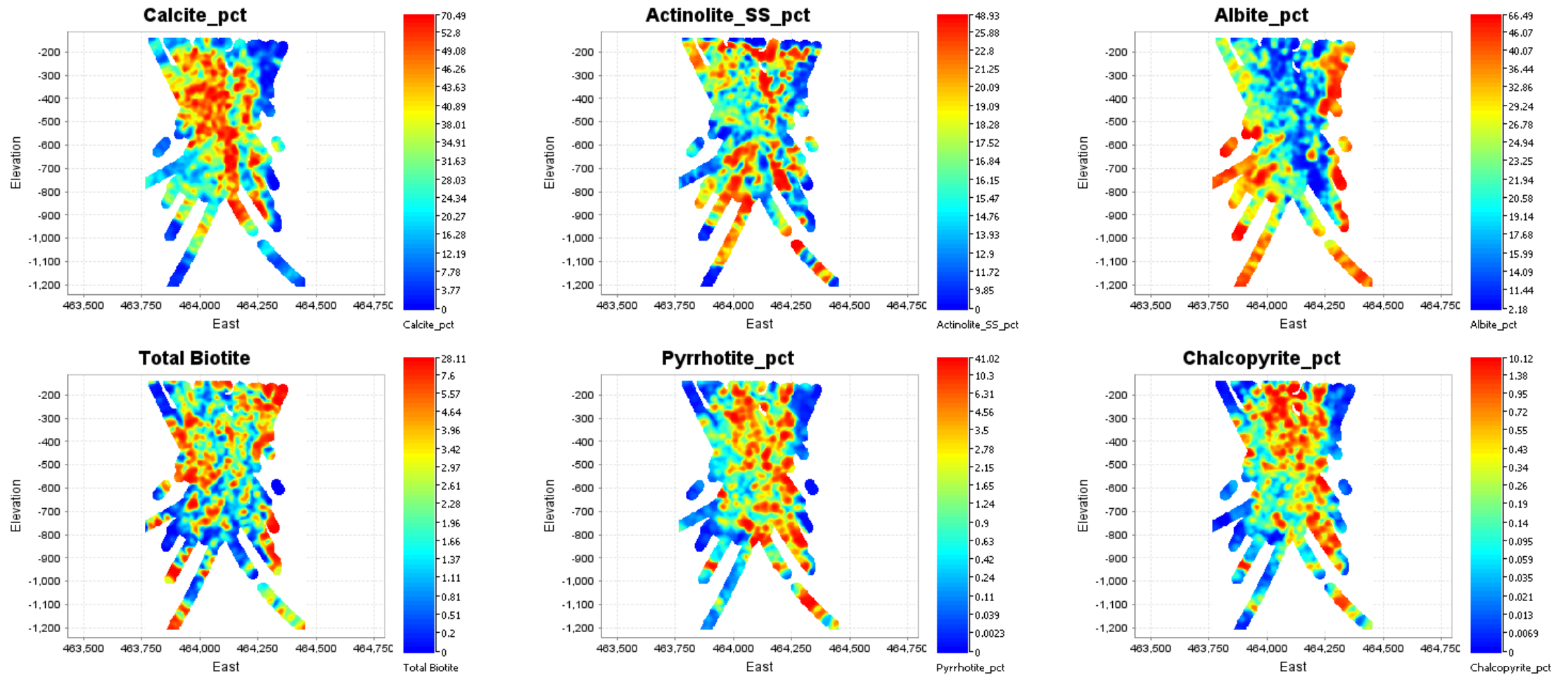
Biotite



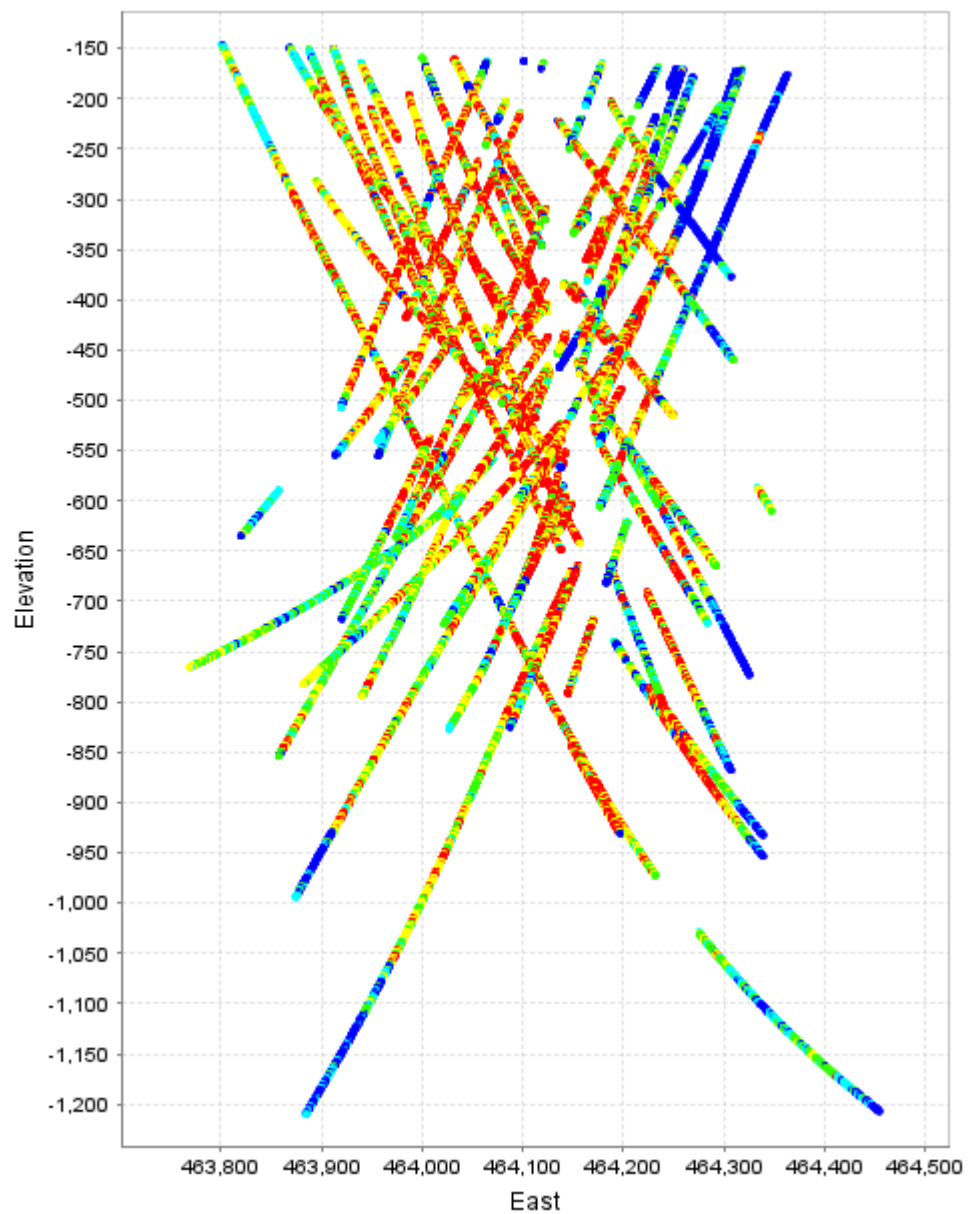
Mineralogy; Level plan



Mineralogy; Cross Section



Cross Section Calcite%



Level Plan Calcite%



