

TECHNICAL PRESENTATION – AGES 2013

The attached presentation will be delivered today at the 2013 Annual Geoscience Exploration Seminar (“AGES2013”), which is the annual technical conference of the Northern Territory Geological Survey.

All data included in the presentation has previously been released to the market in accordance with continuous disclosure requirements.

The presentation is a distillation of the geological concepts and understanding of the Allamber project based on exploration work conducted to date, delivered to a predominantly technical audience.

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Issued Shares: 231.3M
ASX Codes: THX & THXOA

Competent Person Statement

The details contained in this report that pertain to Exploration Results, Mineral Resources or Ore Reserves, are based upon information compiled by Mr Costica Vieru, a Member of the Australian Institute of Geoscientists and an employee of the Company. Mr Vieru has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the December 2004 edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” (JORC Code). Mr Vieru consents to the inclusion in this report of the matters based upon the information in the form and context in which it appears.



THUNDELARRA
EXPLORATION

NTGS: AGES 2013

March 2013

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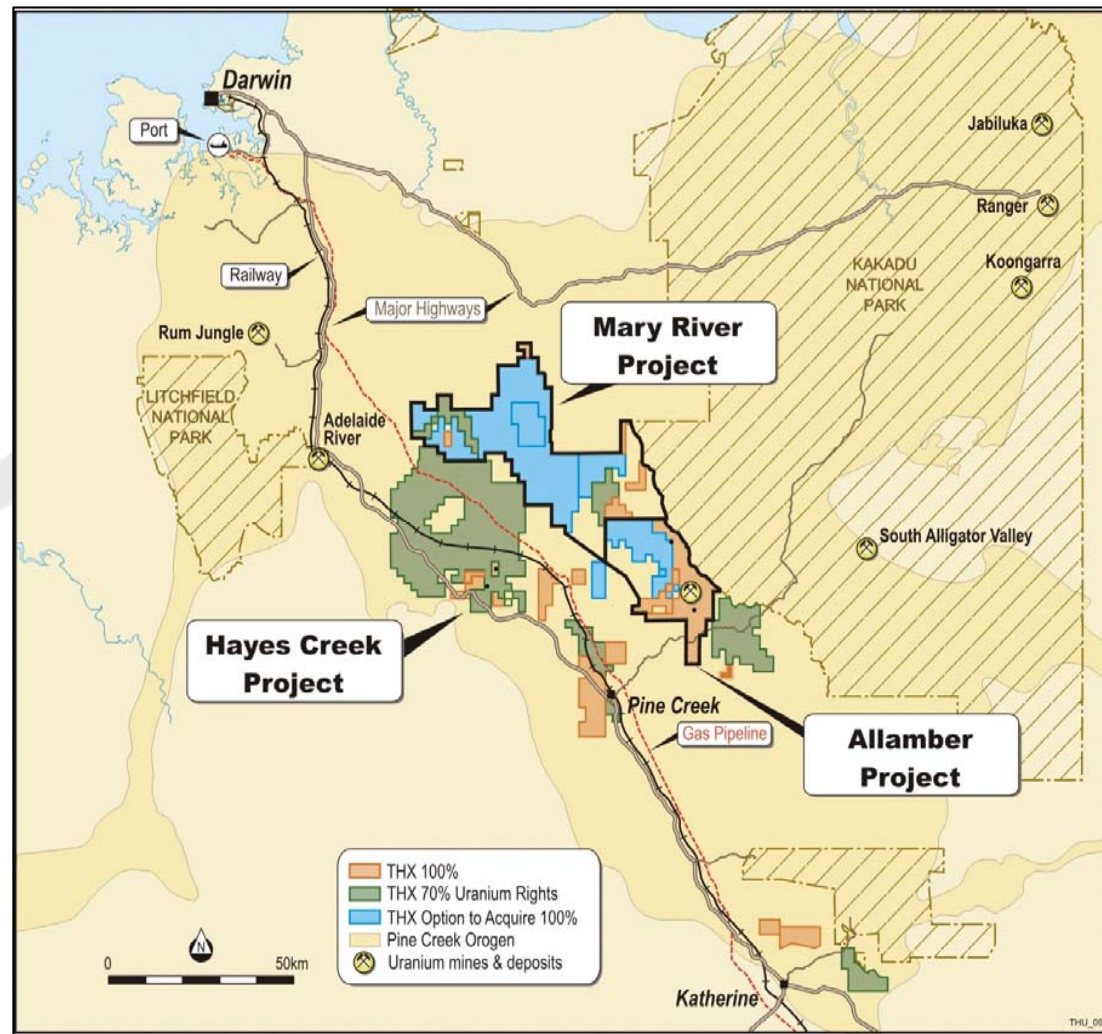
Carbonate platforms: here today, skarn tomorrow?

Developments in the understanding of the mineralisation potential at Thundelarra's Allamber Project

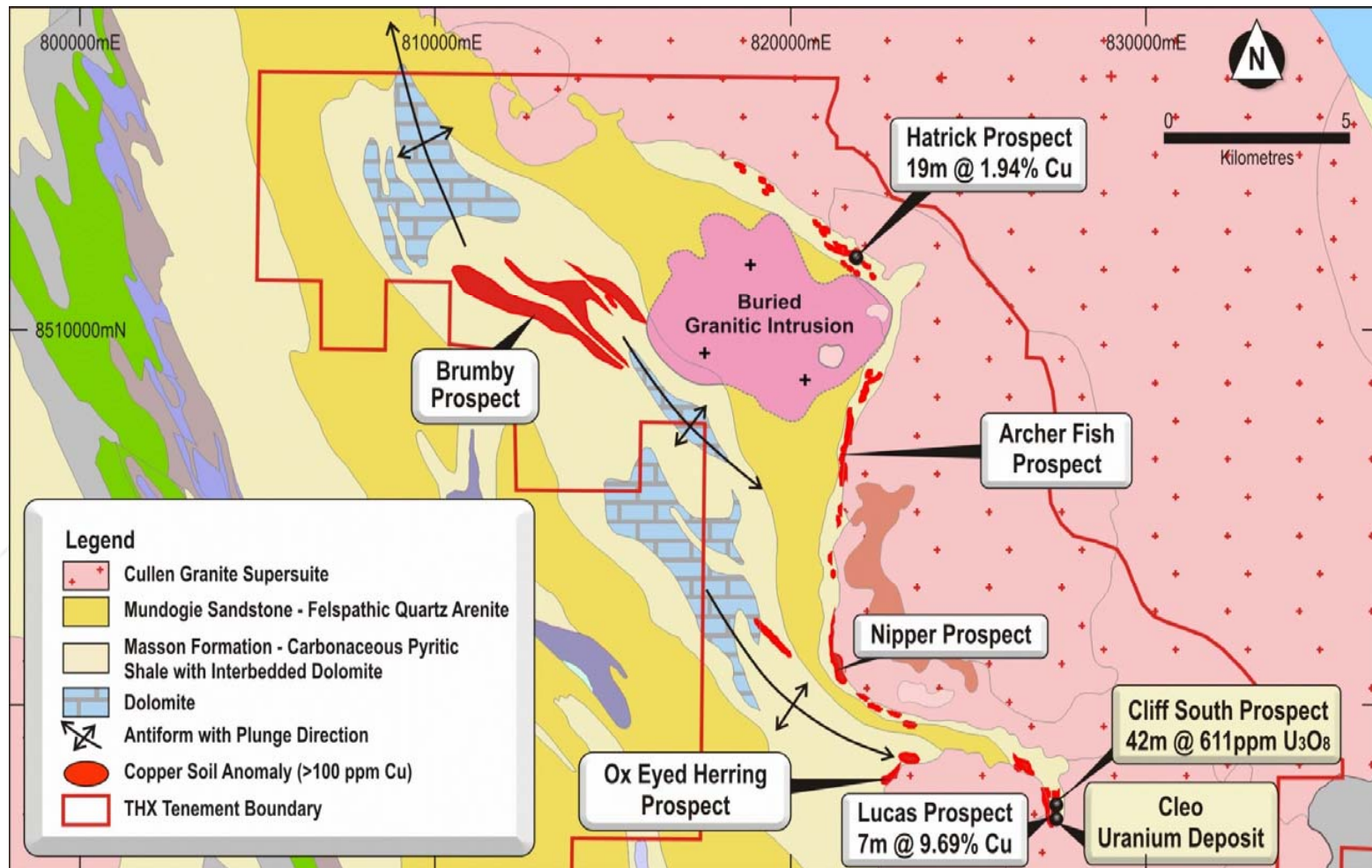


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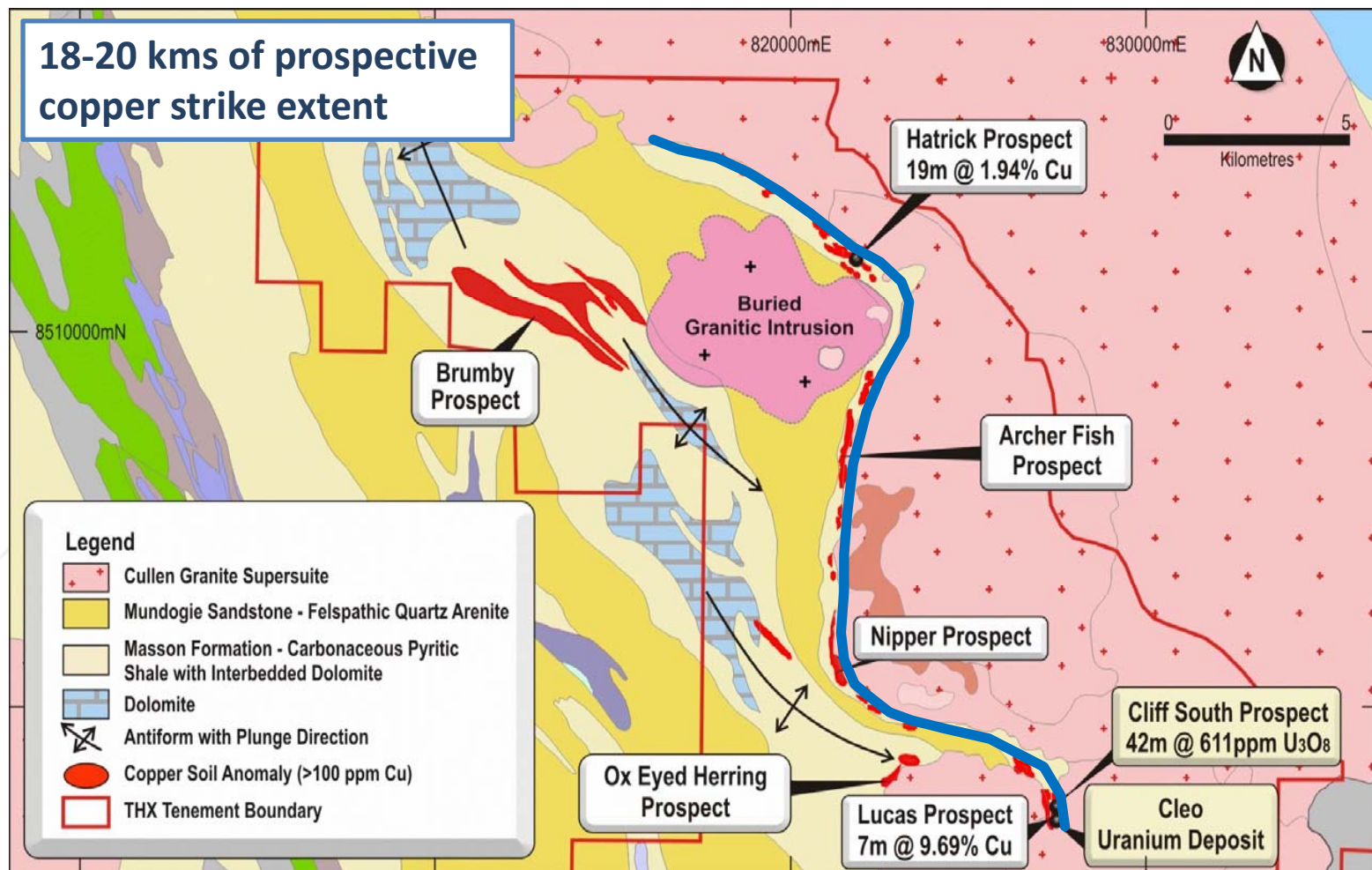
Pine Creek Tenements and Infrastructure



Allamber 2011/12: copper, uranium prospects



Allamber 2011/12: copper, uranium prospects





Allamber 2011/12: copper, uranium prospects

Masson Fm carbonaceous / sulphidic metapelites

at the contact with:

Frances Creek / Allamber Springs granites

Known copper anomalism (soils and drilling)

THEORETICAL TARGETS

- **20km SedEx target (Kupferschiefer, Michigan style)?**
- **Possible Nifty style?**

Known uranium occurrences

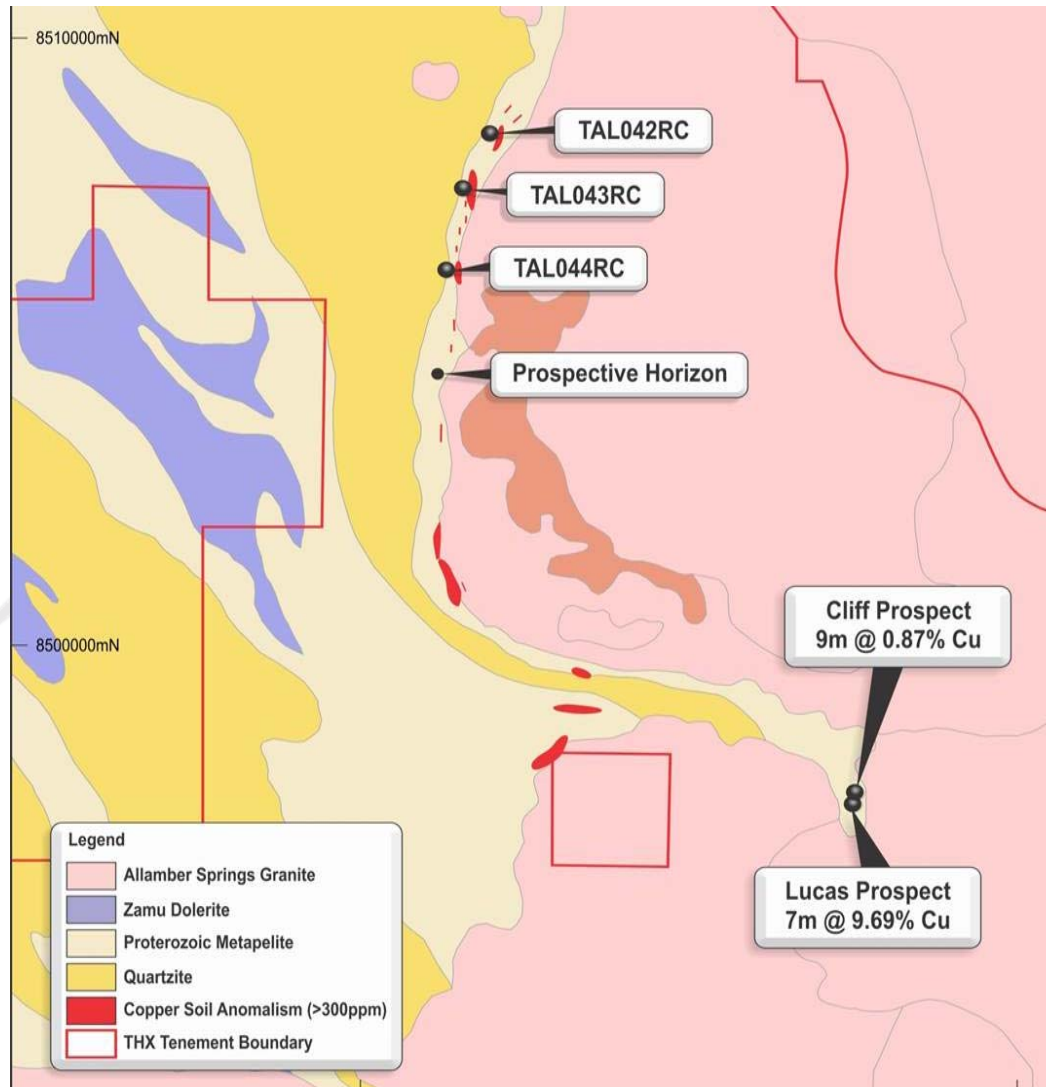
- **Cleo's resource**
- **Cliff South drillholes**

Allamber Project : misleading soils?

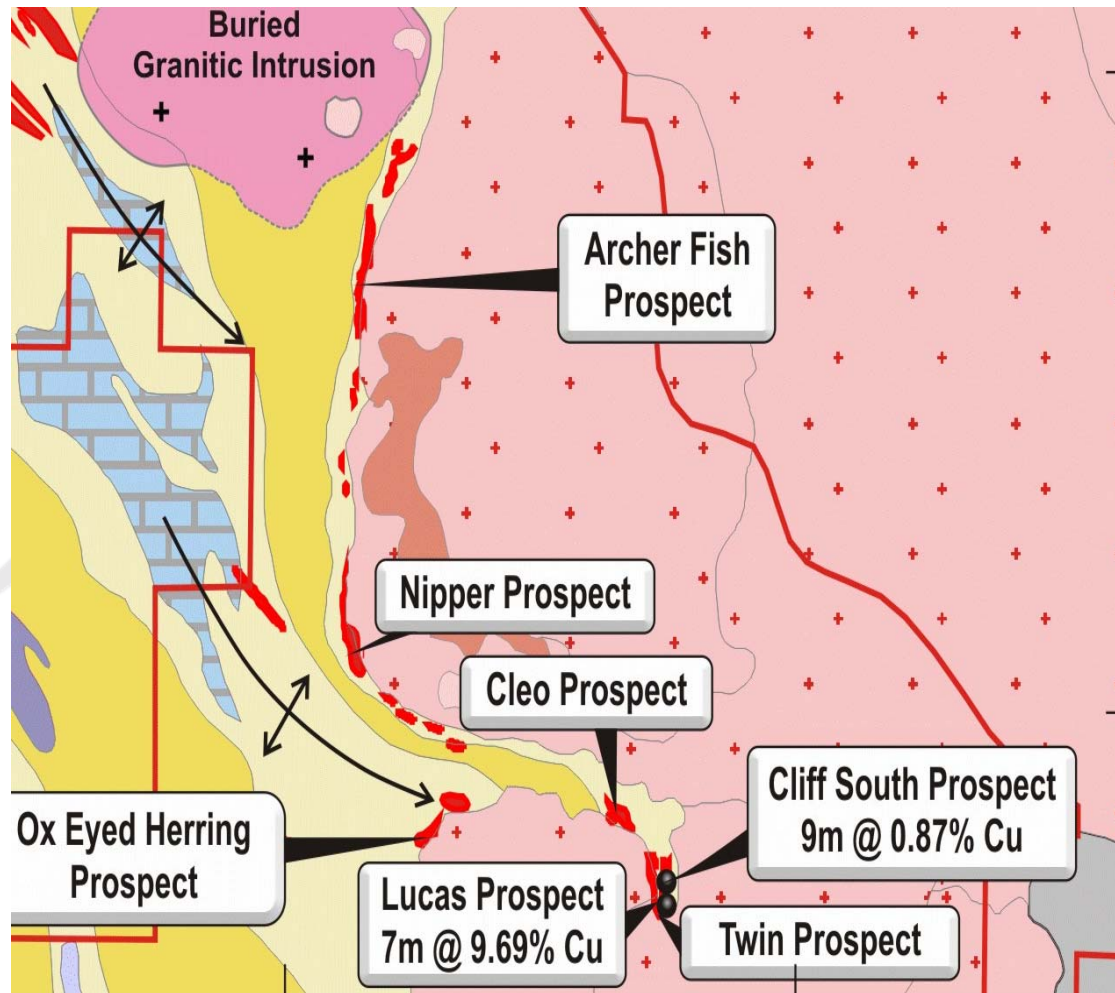


Reddish-brown
regolith: after
dolomite or after
Zamu dolerite?
Here, and across
most of the area,
after dolomite.

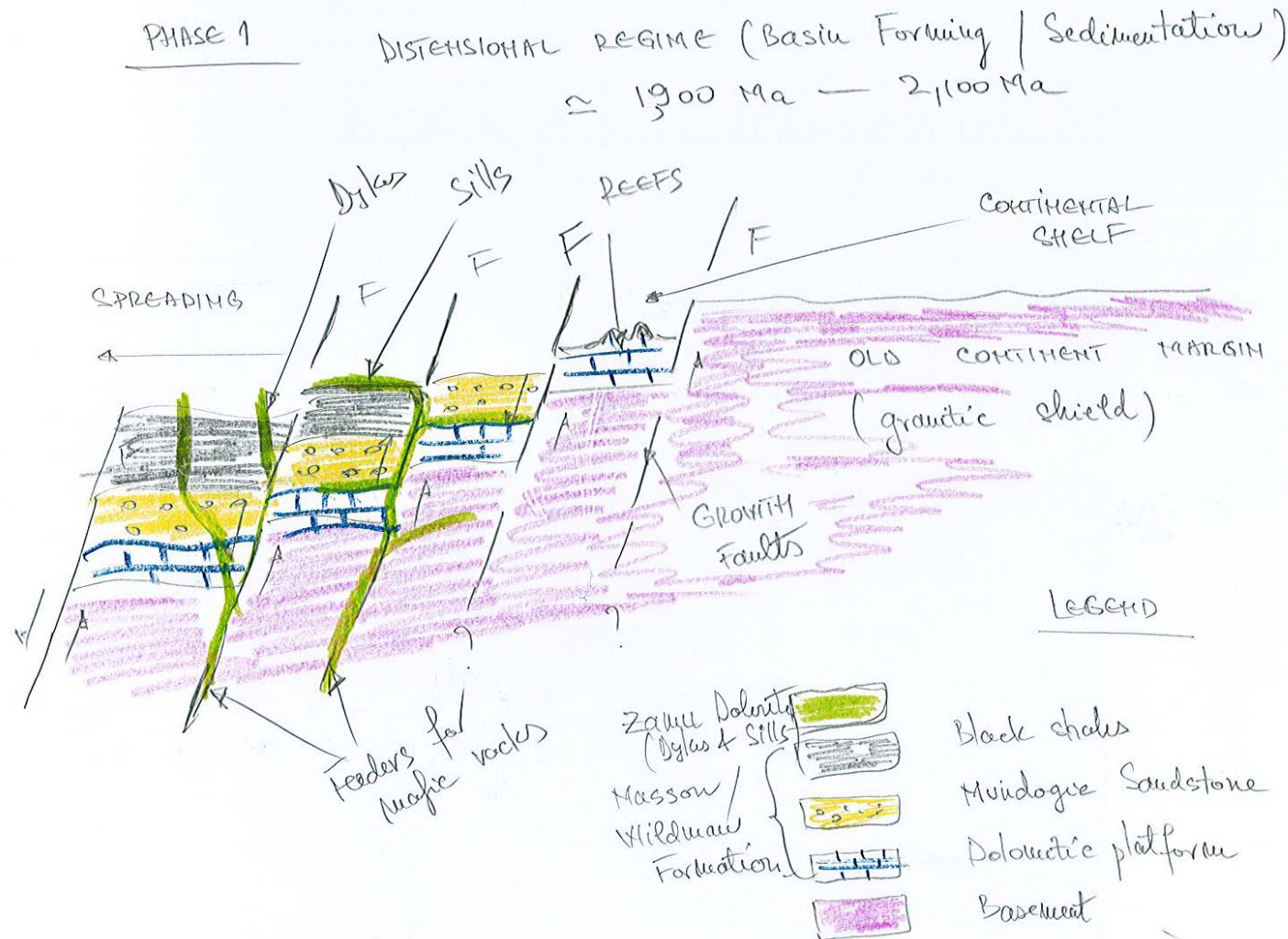
Allamber: reinterpreting the geology



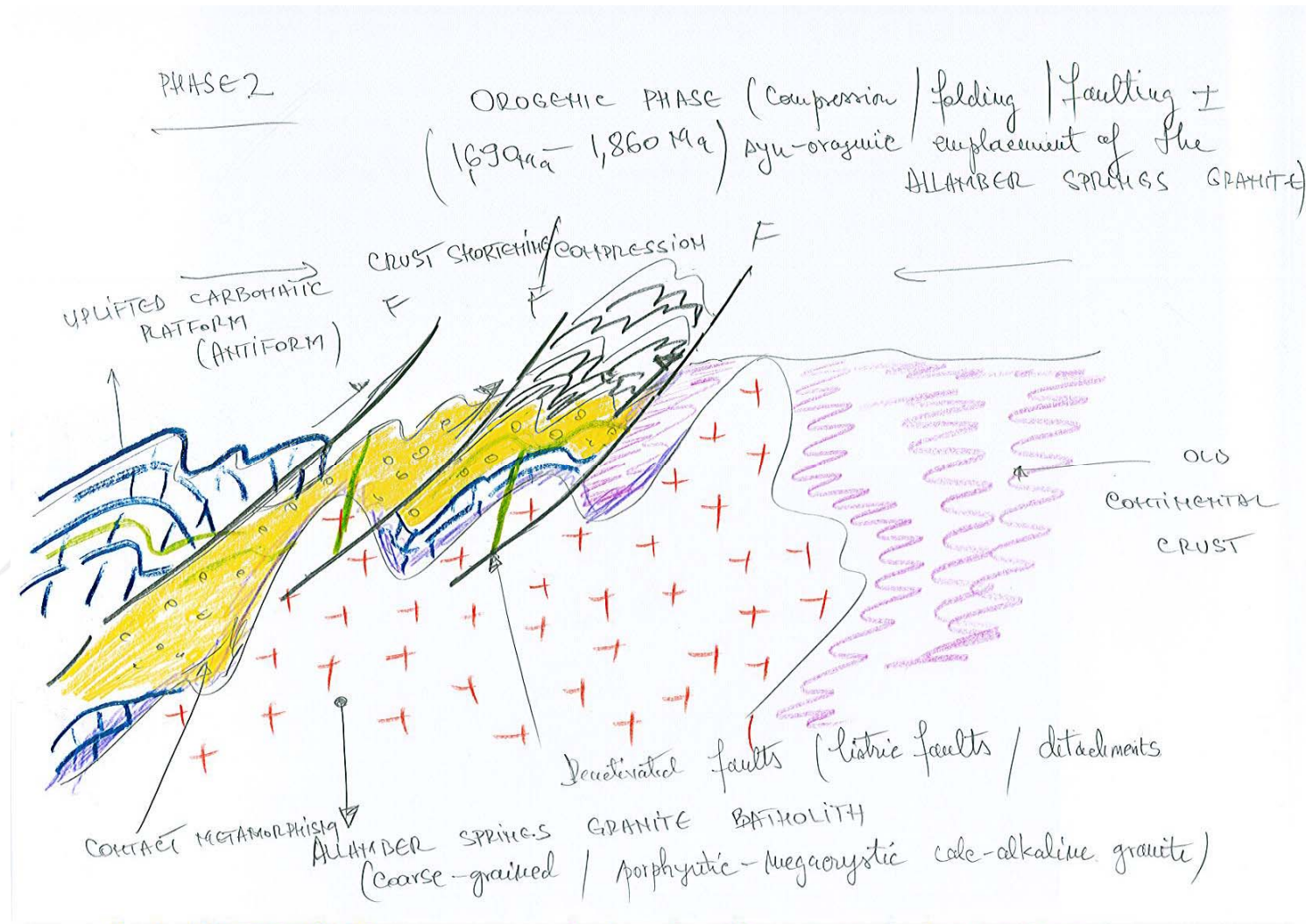
Zamu dolerite recognised as dolomite



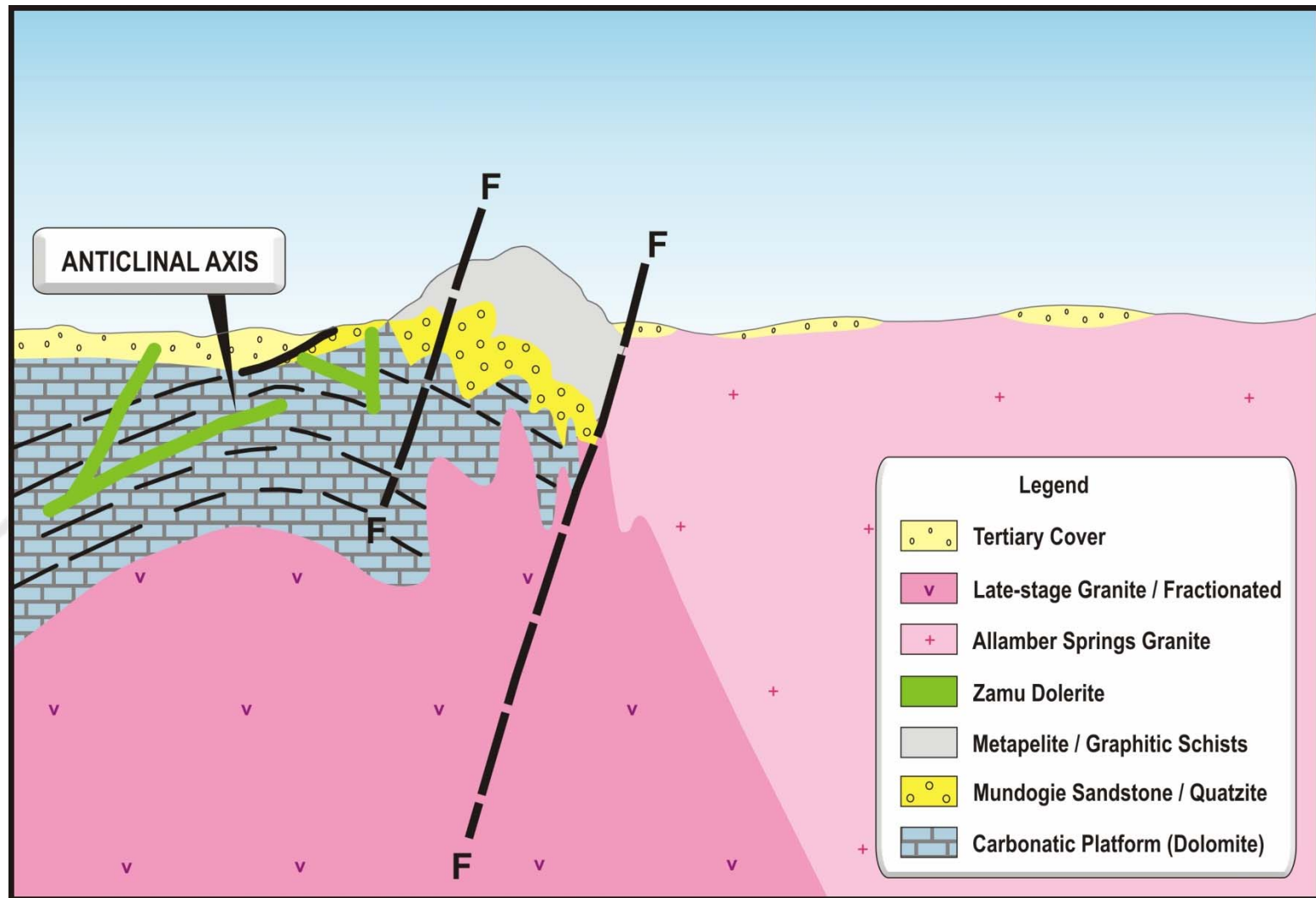
Allamber Project : schematic evolution



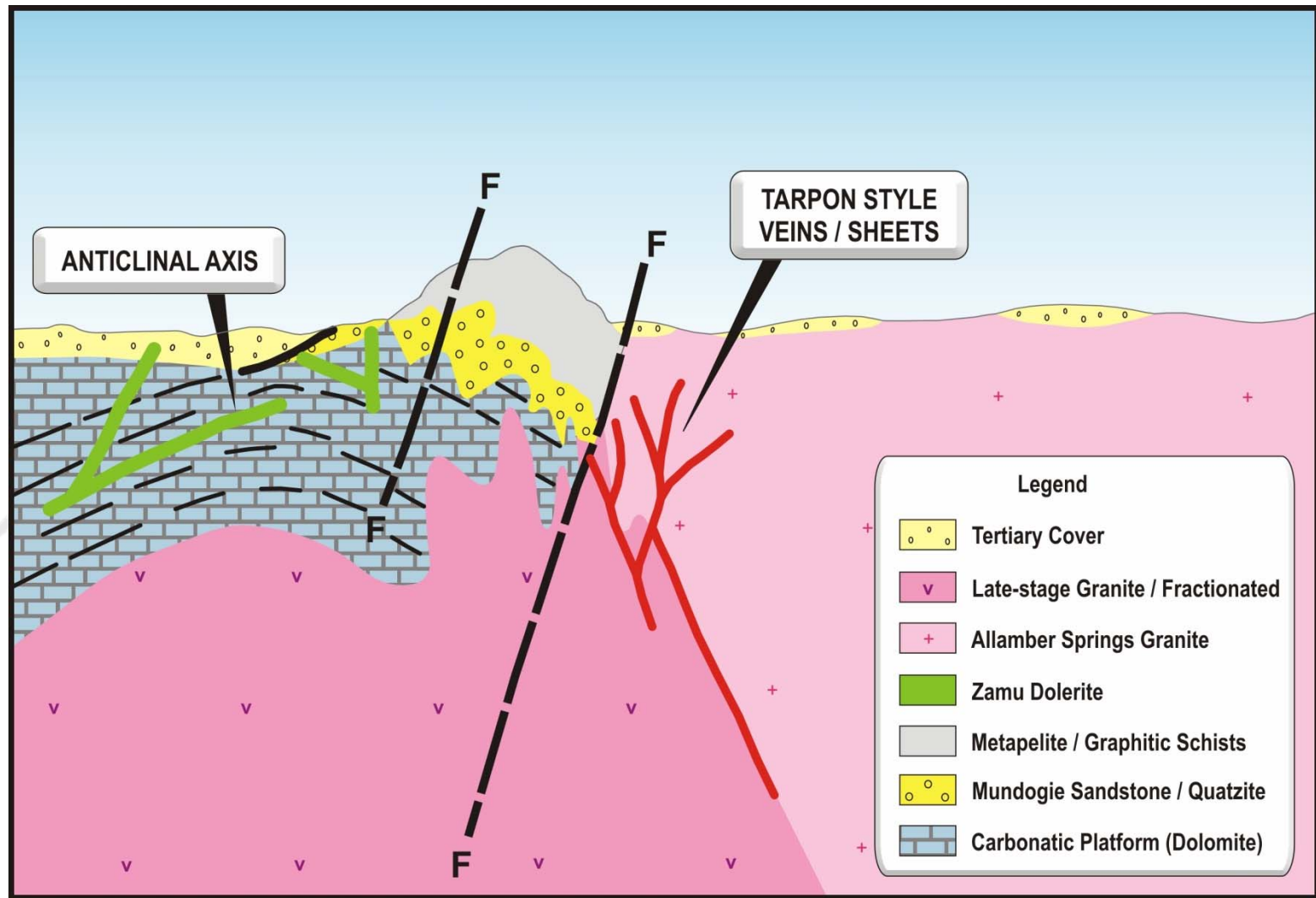
Allamber Project : schematic evolution



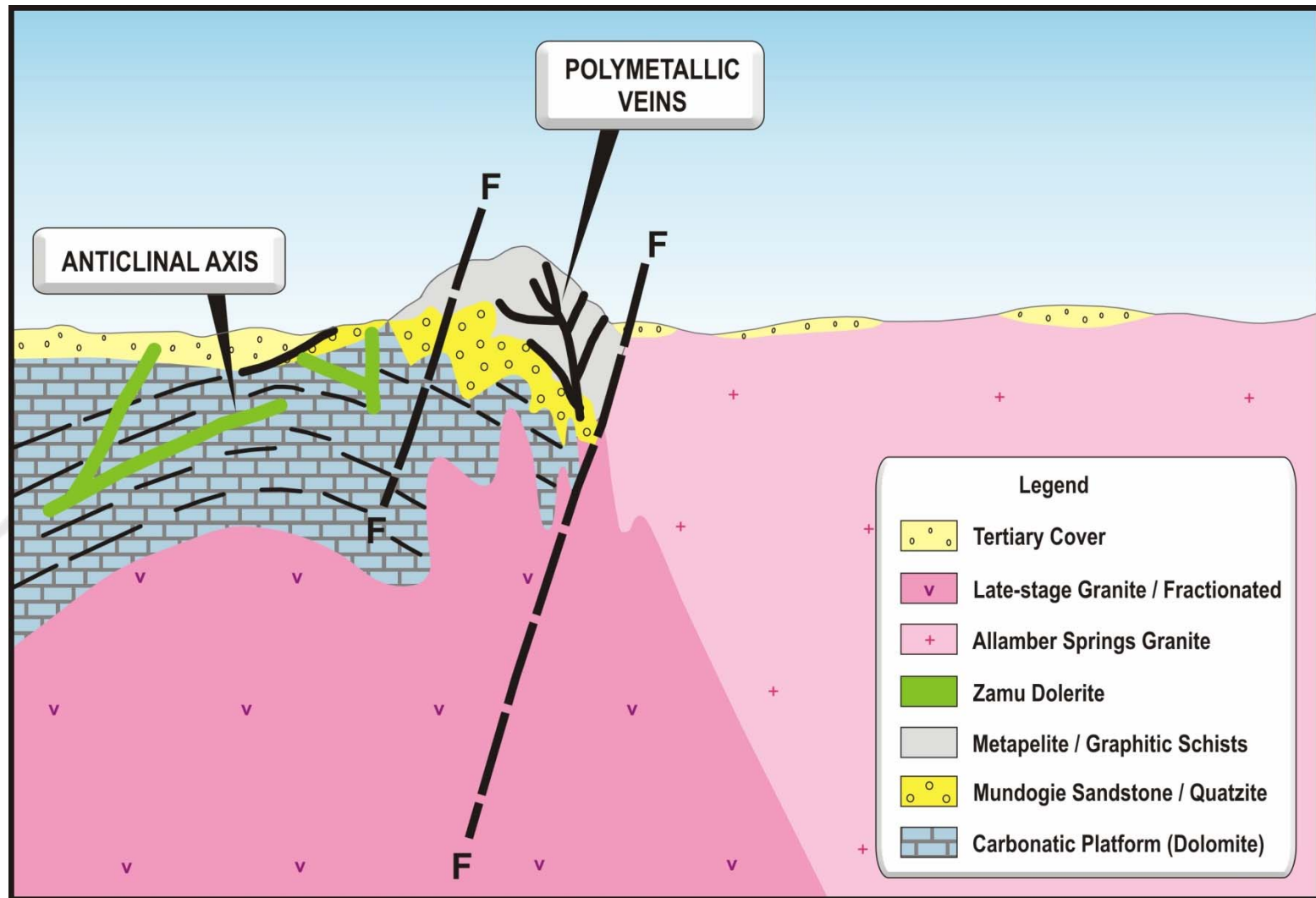
Allamber : a possible mineralisation model



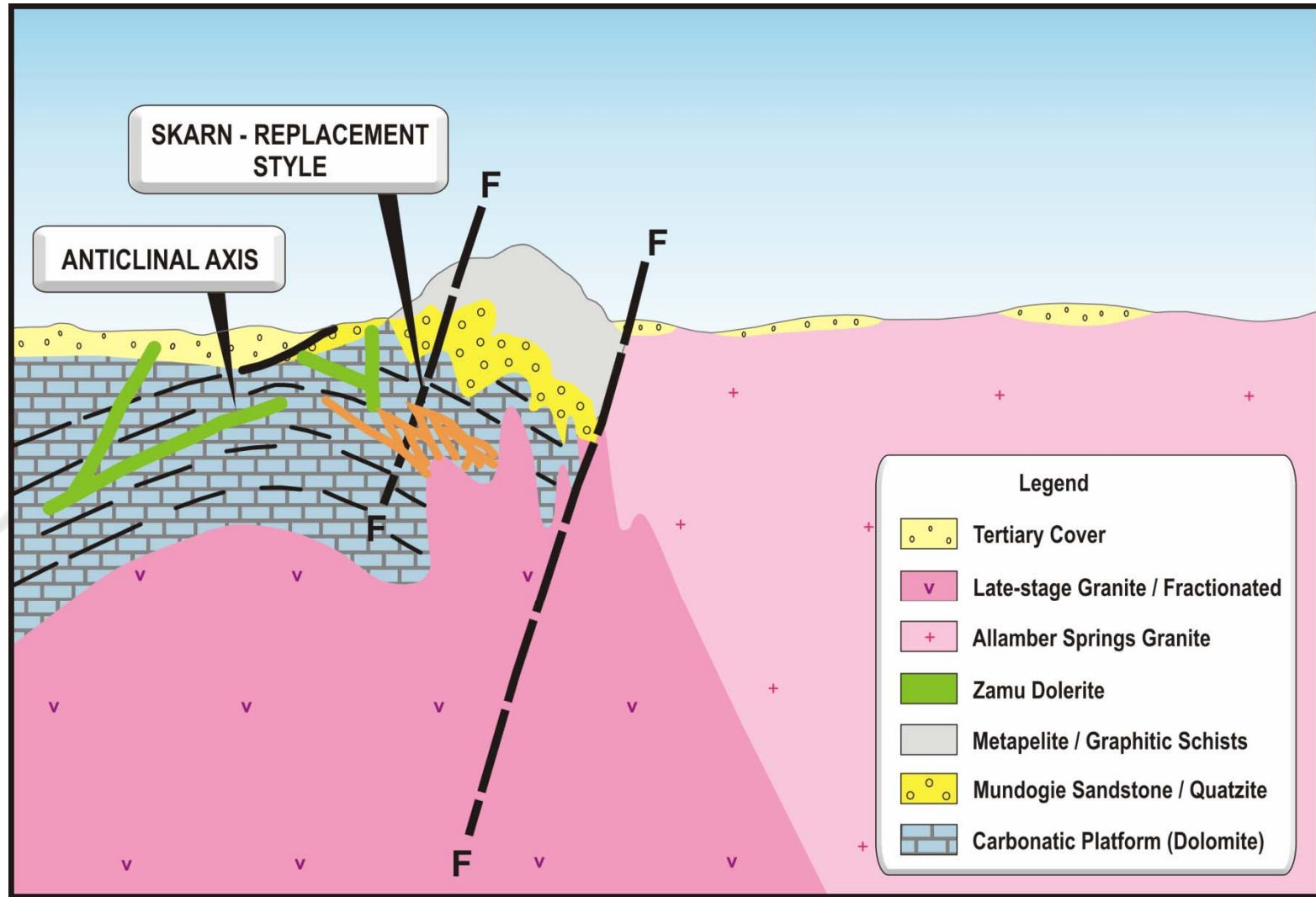
Allamber : a possible mineralisation model



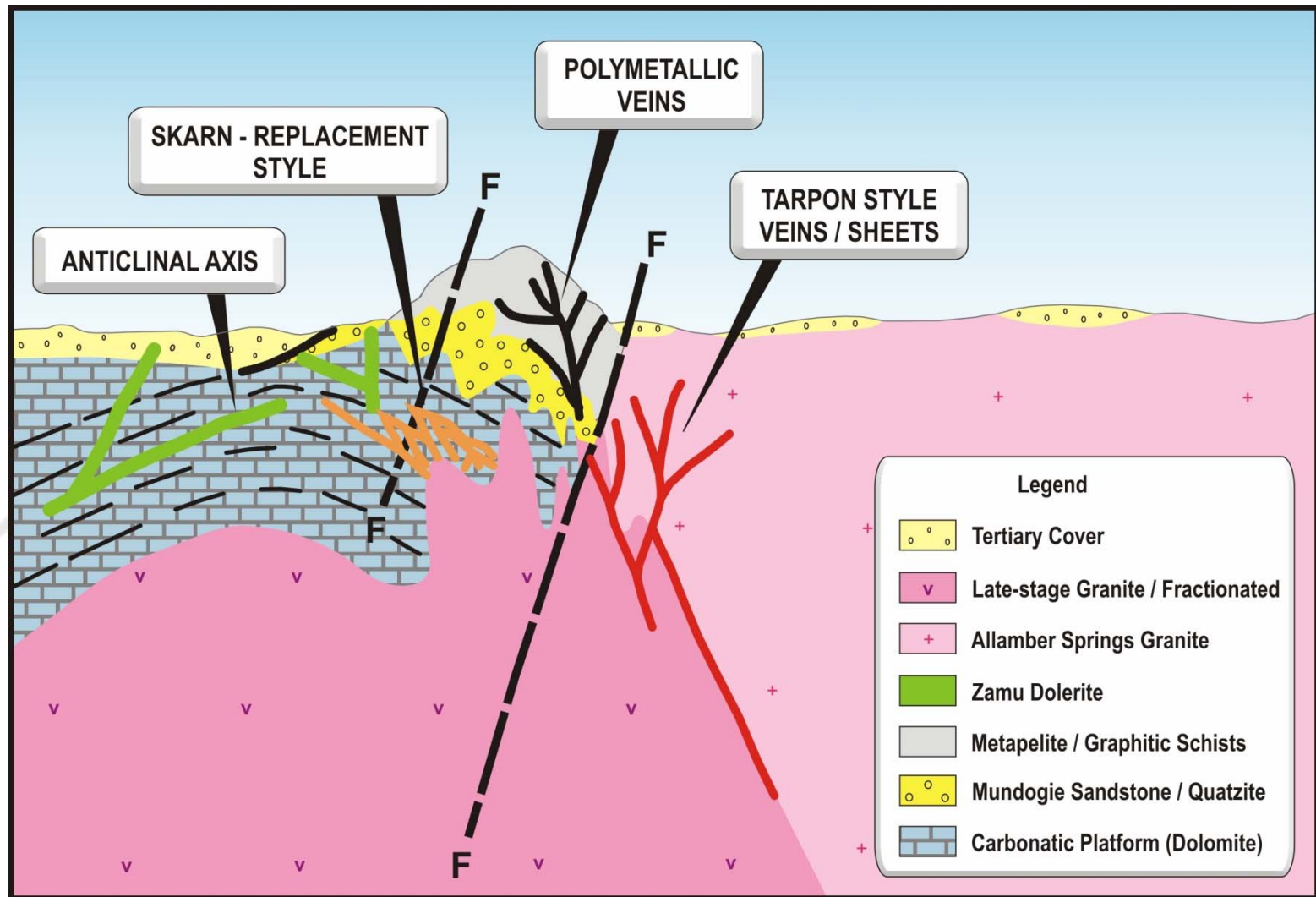
Allamber : a possible mineralisation model



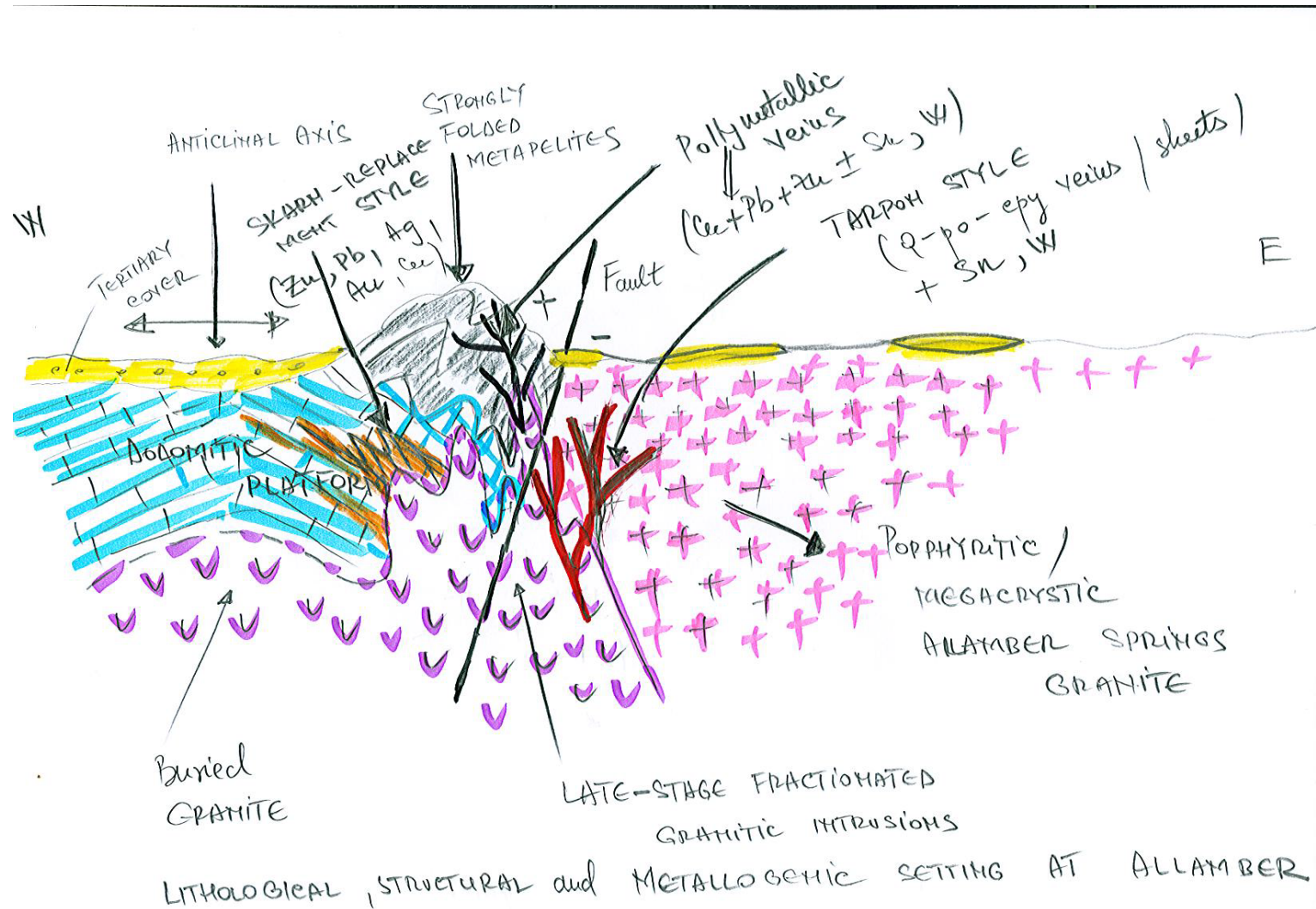
Allamber : a possible mineralisation model



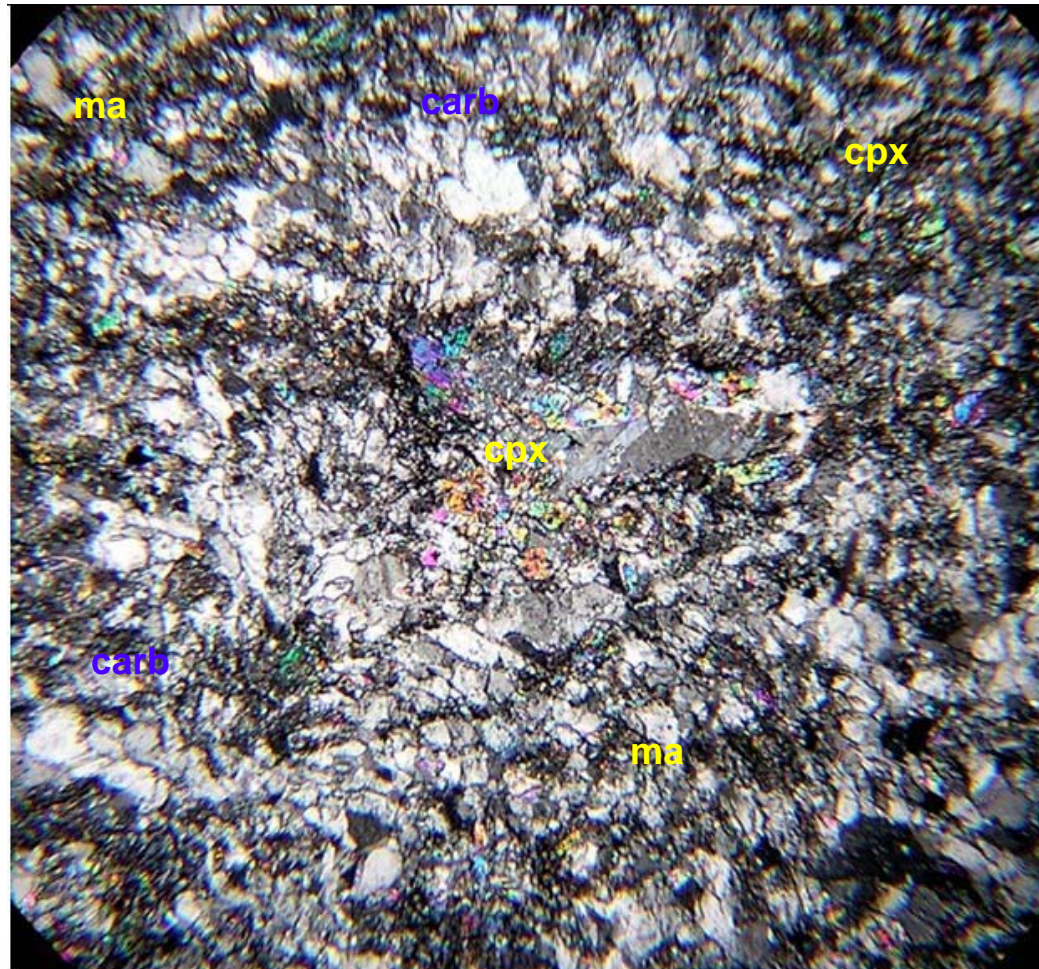
Allamber : a possible mineralisation model



Allamber Project : schematic evolution



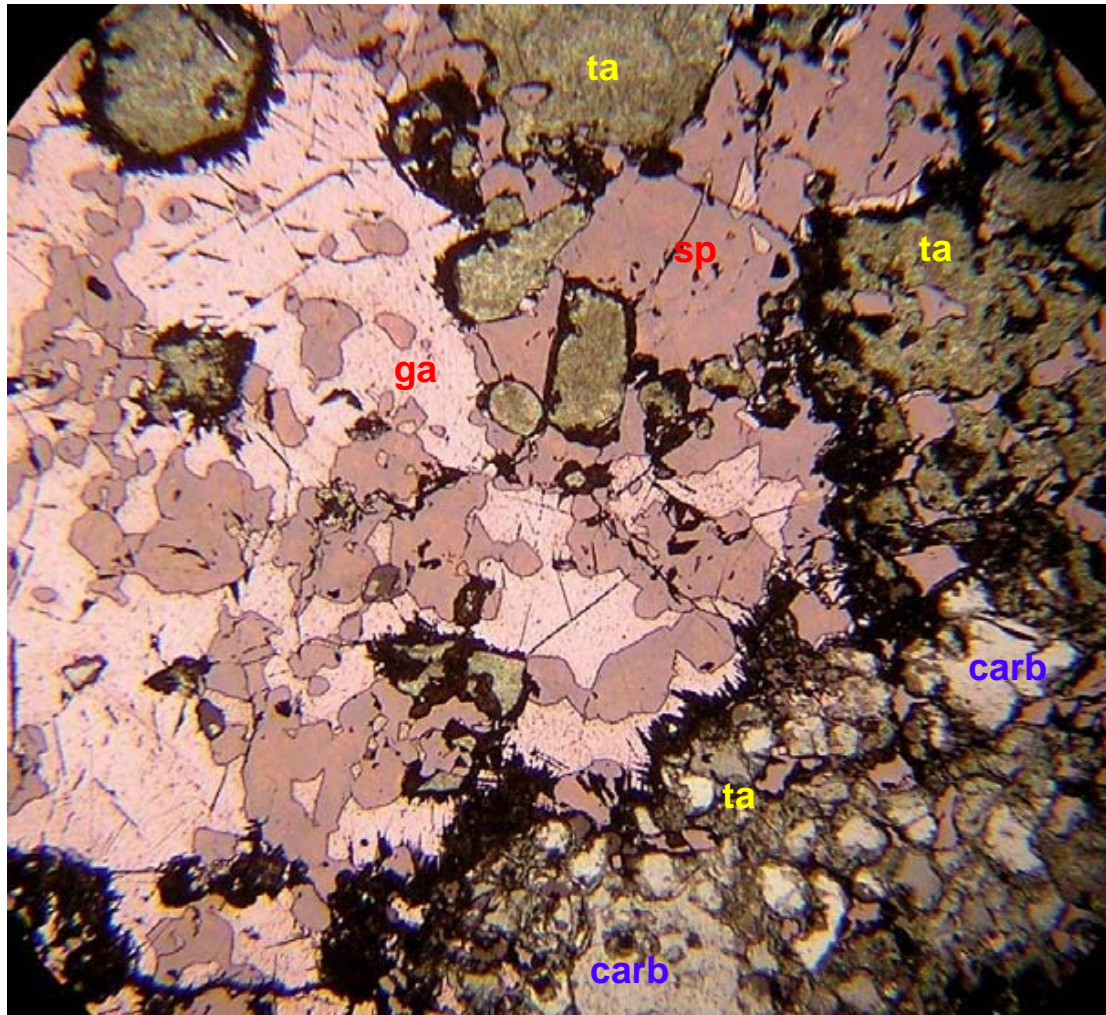
Magnesian skarn WNW of Ox-Eyed Herring



Sample TK 650905

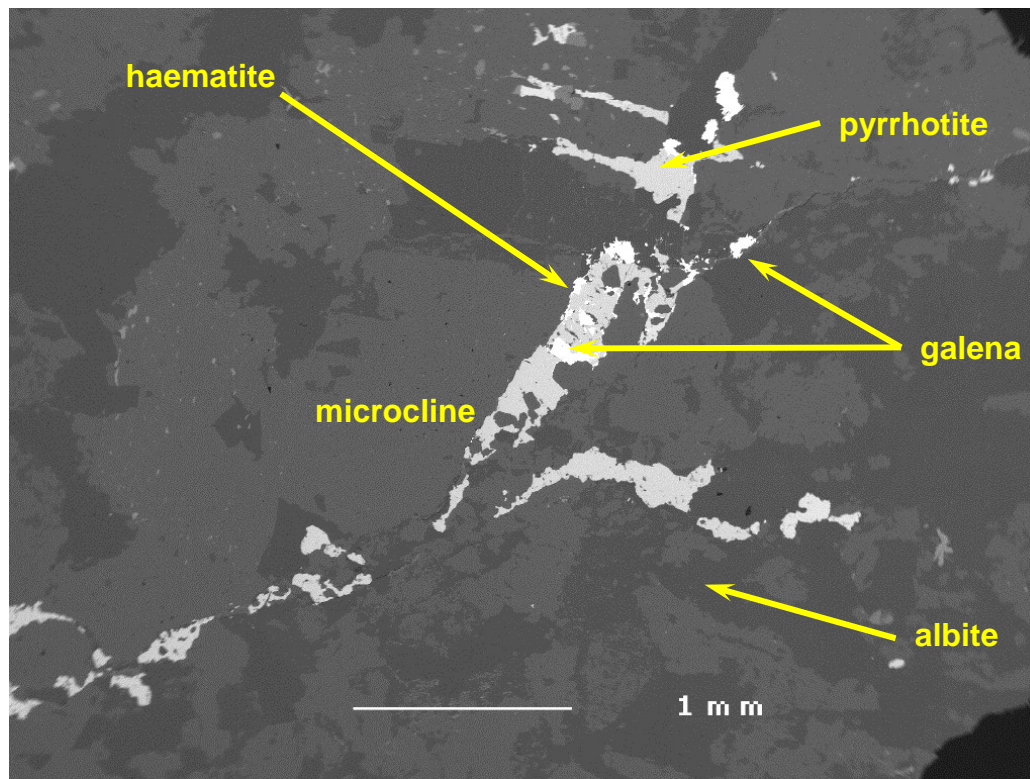
A fine grained magnesian skarn assemblage comprising fine, equant to tabular clinopyroxene - diopside (cpx) aggregates in an anhedral carbonate (carb) mosaic matrix. Fine granular magnetite (ma) may reflect a relict crenulated schistosity. Crossed polars. Field of view – 3 mm.

Typical Mt Evelyn / Moline skarn (15km SE)



Massive galena (ga) and sphalerite (sp) mineralisation associated with a carbonate – dolomite (carb) gangue that has been progressively replaced by scaly talc (ta). Crossed polars under reflected and transmitted light. Field of view – 3mm.

Allamber : Tarpon-style mineralisation

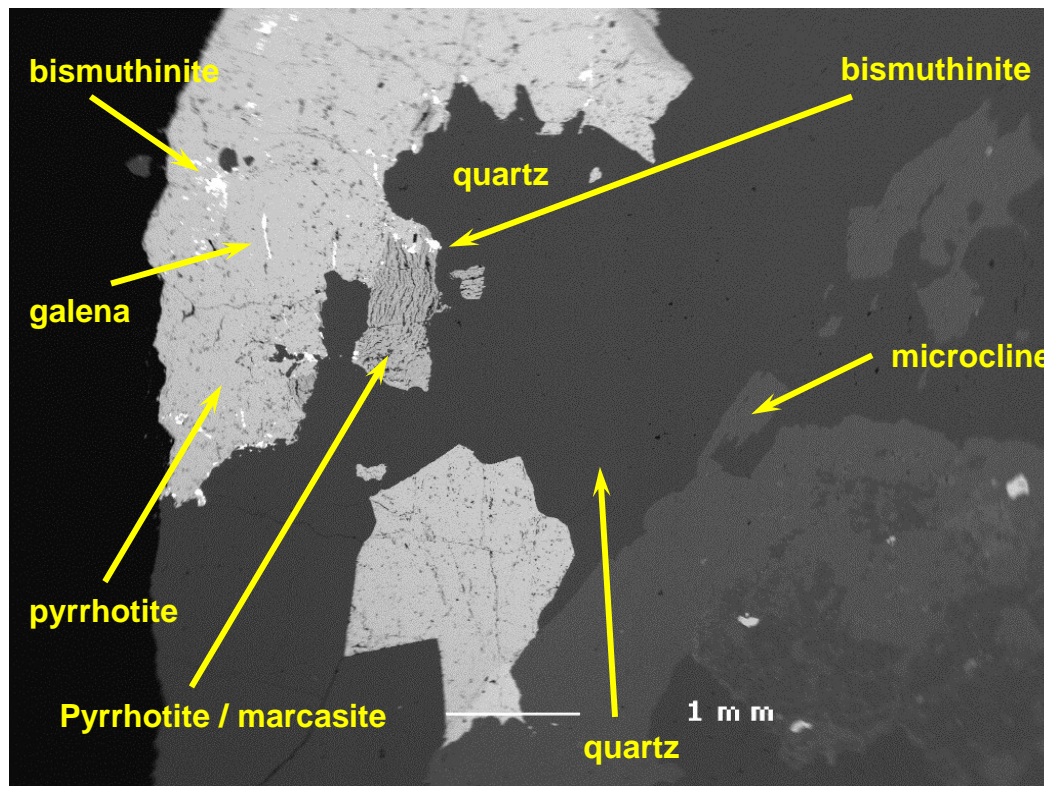


TK651622B

Microcline granite with albite containing vein-like masses of pyrrhotite and quartz. Pyrrhotite contains native bismuth, bismuthinite and galena. Some chalcopyrite is present. Large zircons are also present. Small blades of rutile are scattered throughout the specimen.

This is likely to be a highly fractionated A-type granite.

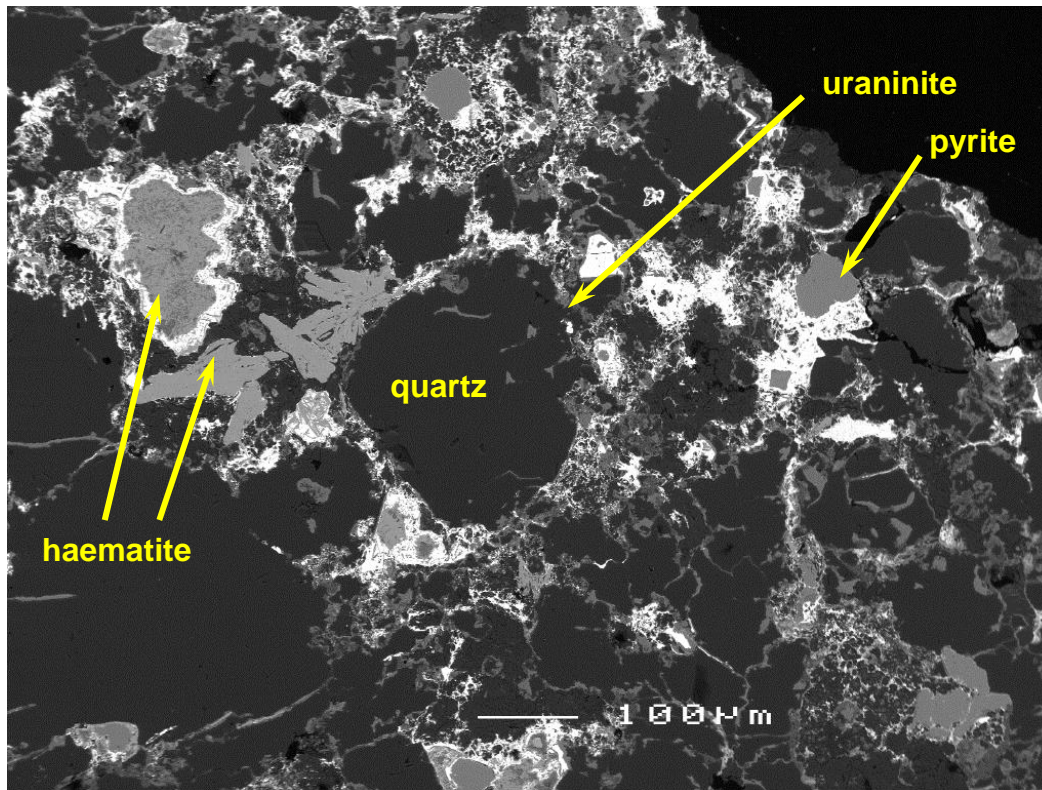
Allamber : Tarpon-style mineralisation



TK651624

Microcline rich granite with plagioclase and biotite containing band-like masses of pyrrhotite (varying to marcasite) and quartz. Pyrrhotite contains native bismuth, bismuthinite and galena.

Allamber : Cliff South mineralisation

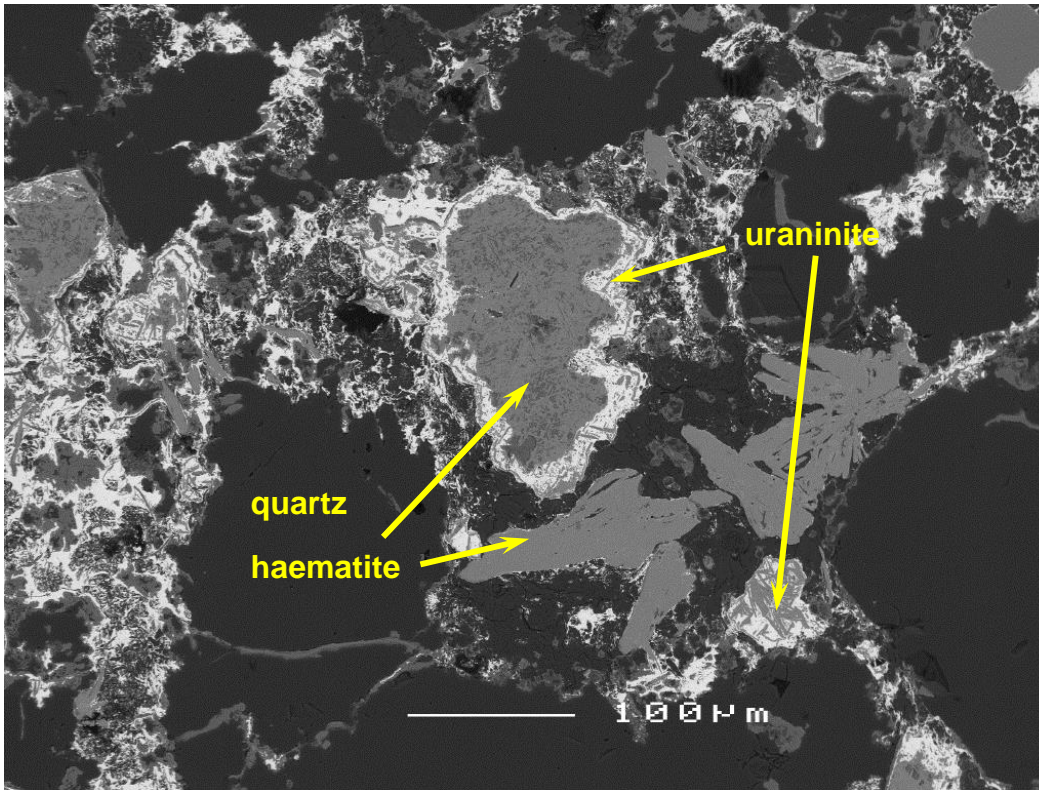


TAL 062 RC

130 to 131m

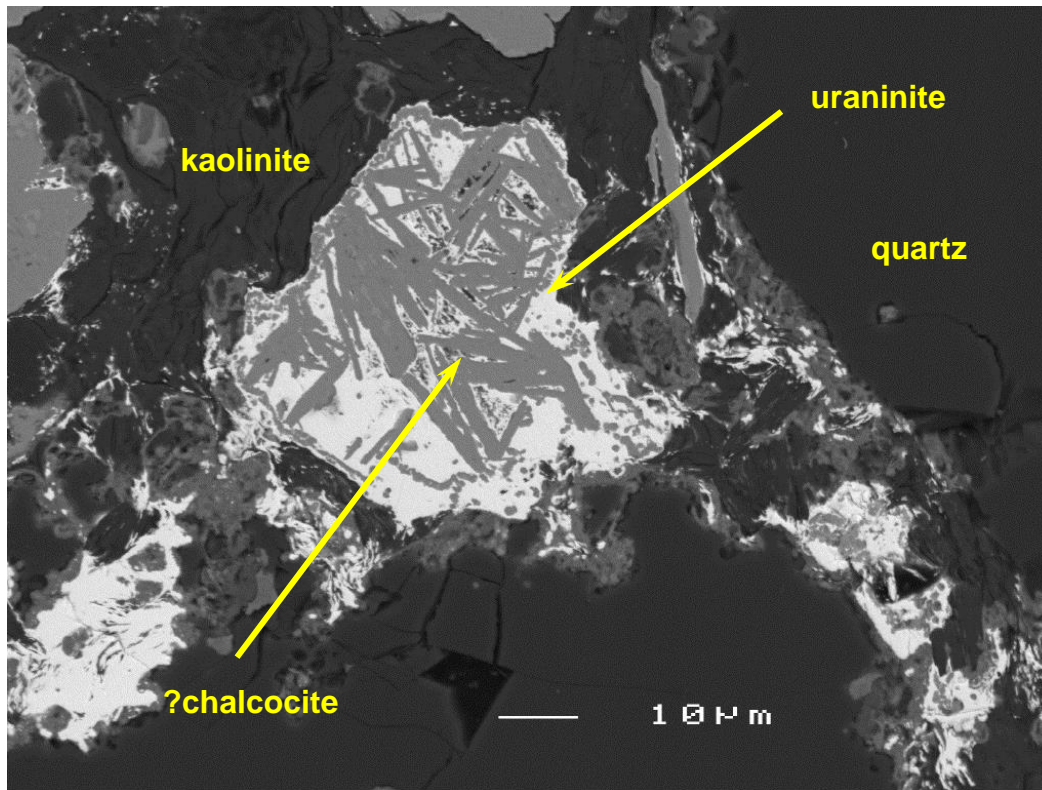
**Uraninite replacing
pyrite / haematite
within the altered
granitic dykes.**

Allamber : Cliff South mineralisation



TAL 062 RC 130 to 131m

Allamber : Cliff South mineralisation

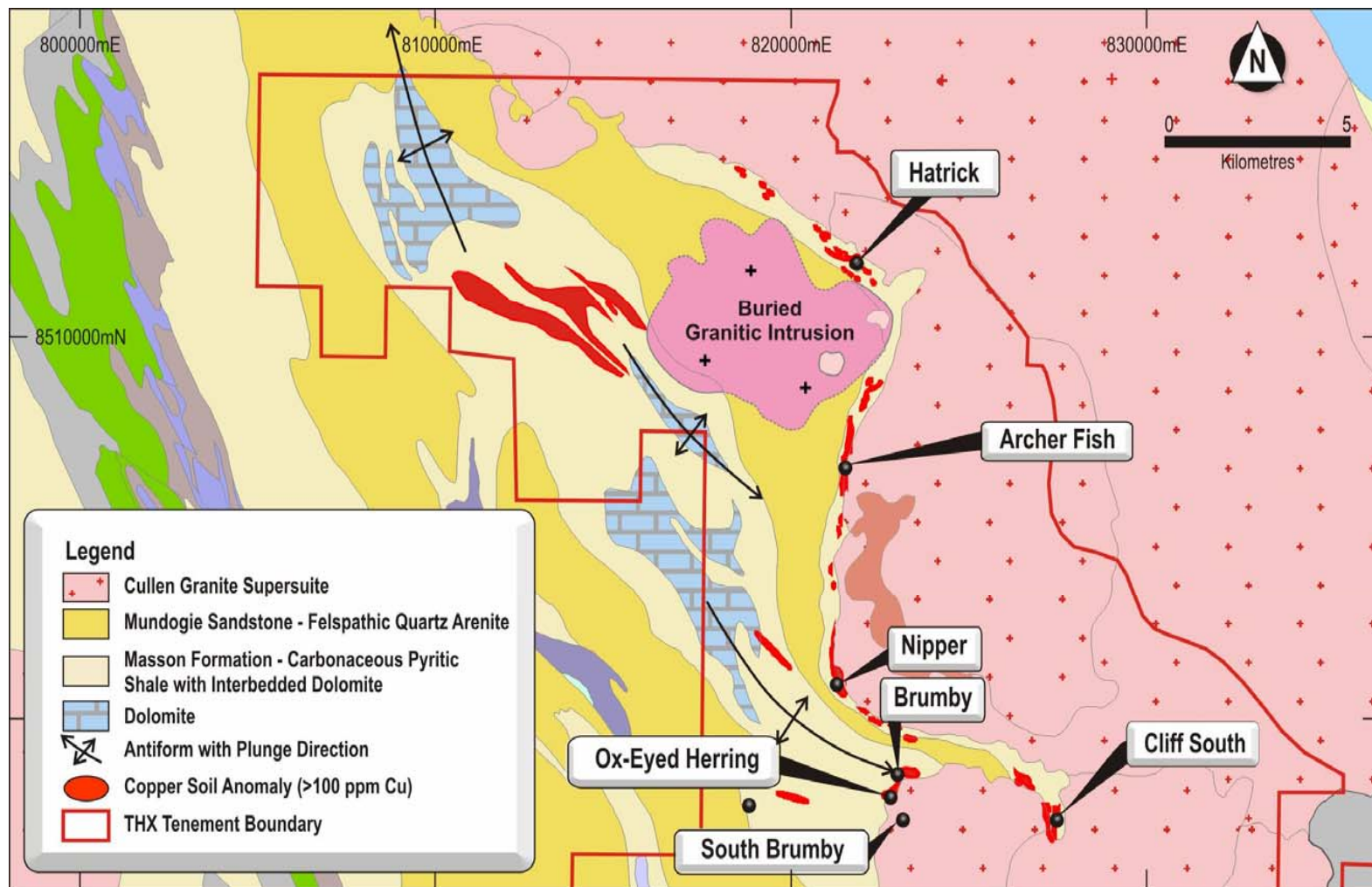


TAL 062 RC

130 to 131m

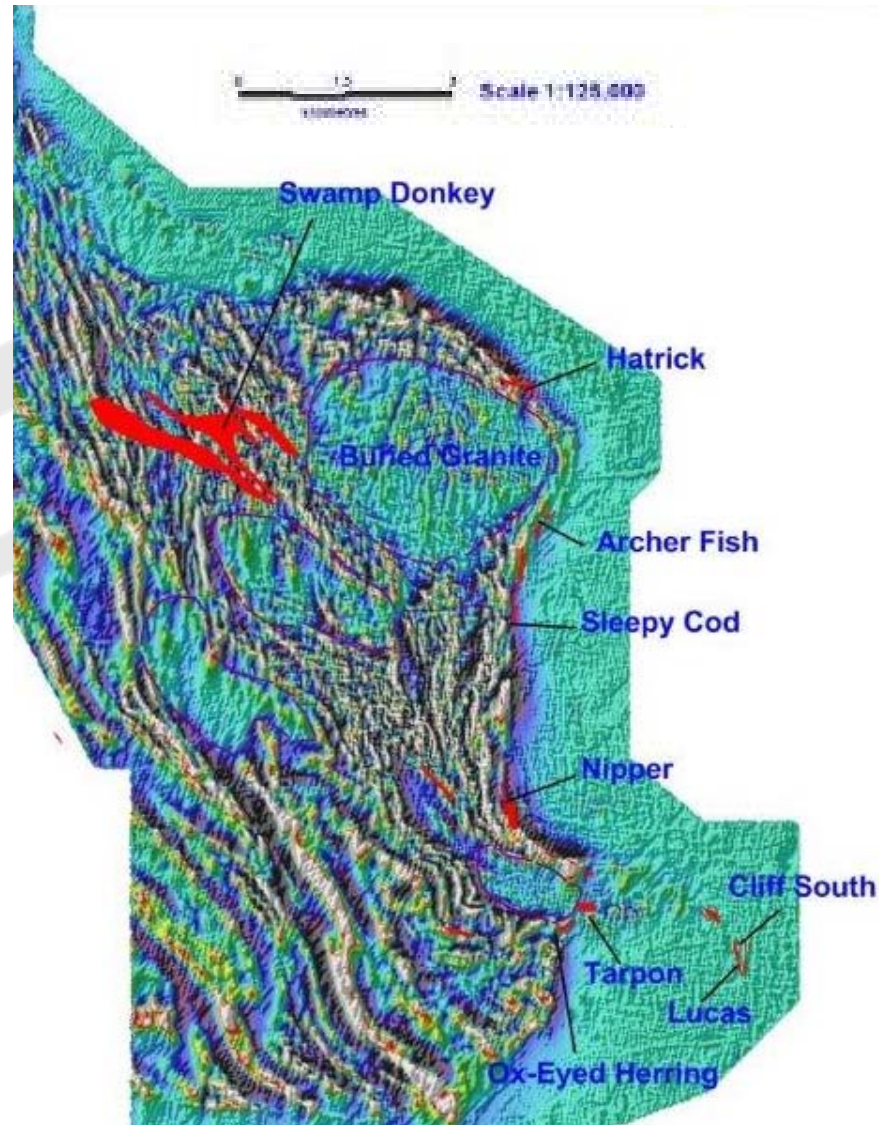
**Uraninite and chalcocite
replacing sulphides
(pyrite / chalcopyrite?)
within deeply
weathered granitic
dykes**

Allamber Project : Current Prospects

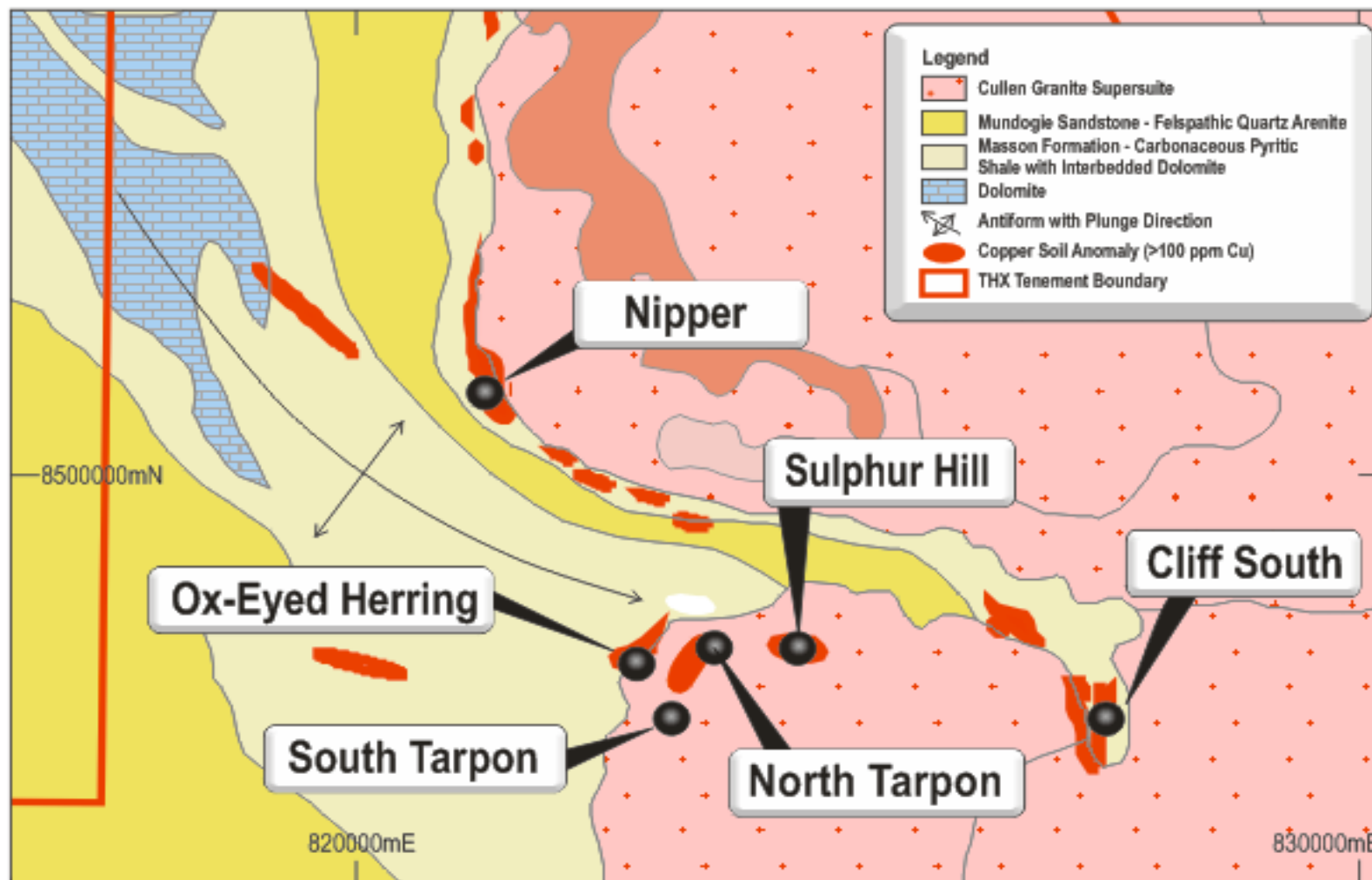


Allamber Project : magnetic RTP image

Copper
anomalism
and Base
Metals
Prospects



Allamber Project : Current Prospects



Allamber Project : positive signs

Nipper : Cu-Au-Sn-W mineralisation in sulphidic calc-silicate altered dolomites.

- 8m @ 0.52% Cu; 0.2 gpt Au; 167ppm Sn; 1,491ppm W
- 16m @ 0.11% Cu; 0.3 gpt Au; 127ppm Sn; 1,266ppm W
- 27m @ 1% Zn with highly anomalous copper and lead

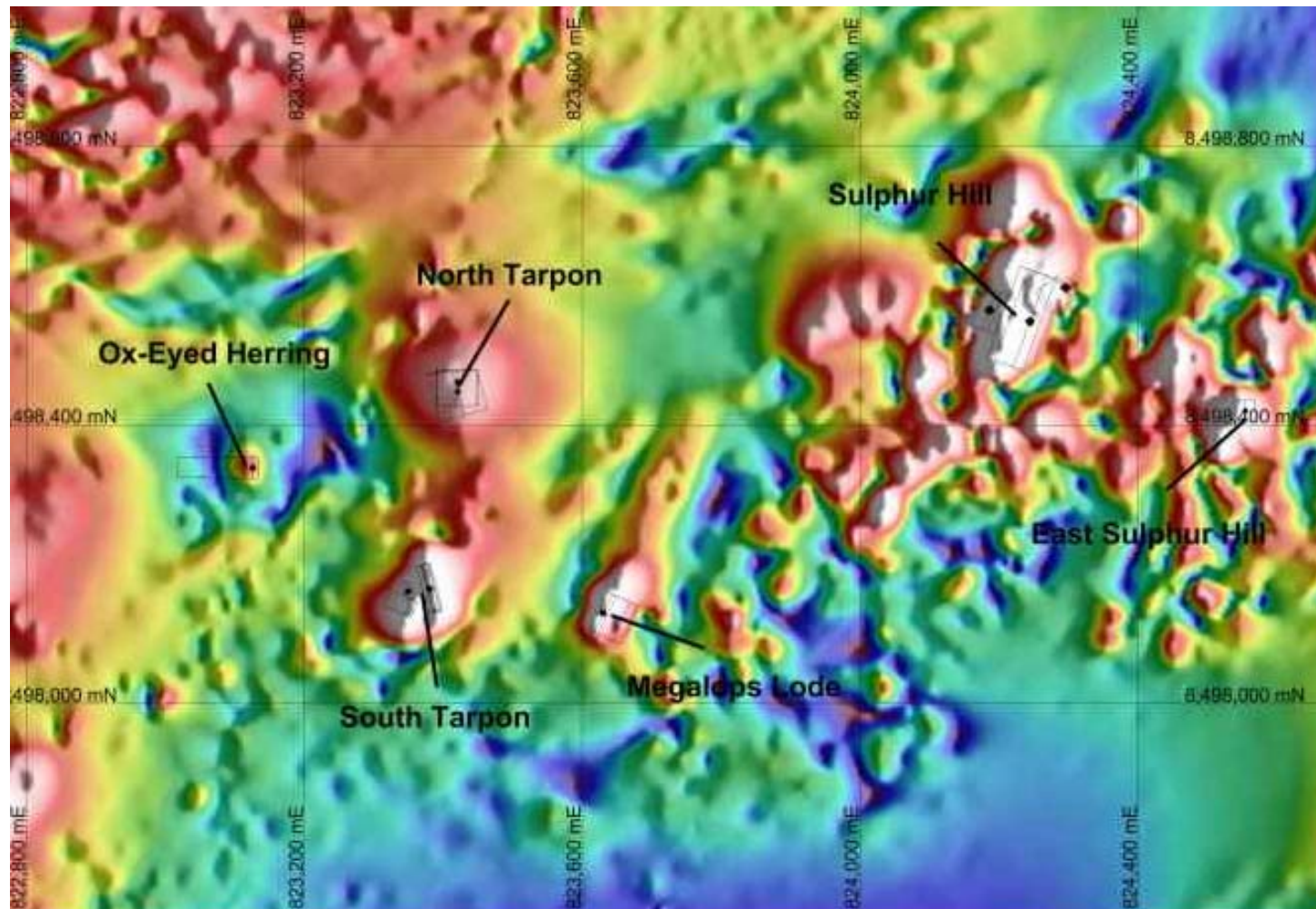
Tarpon : Cu-Au in granite hosted quartz-sulphide lodes

- 2m @ 2.40% Cu
- 5m @ 1.24% Cu
- 6m @ 1.01% Cu
- 9m @ 0.52% Cu
- 2m @ 1.47% Cu
- 1m @ 0.14% Cu; 5.87 gpt Au

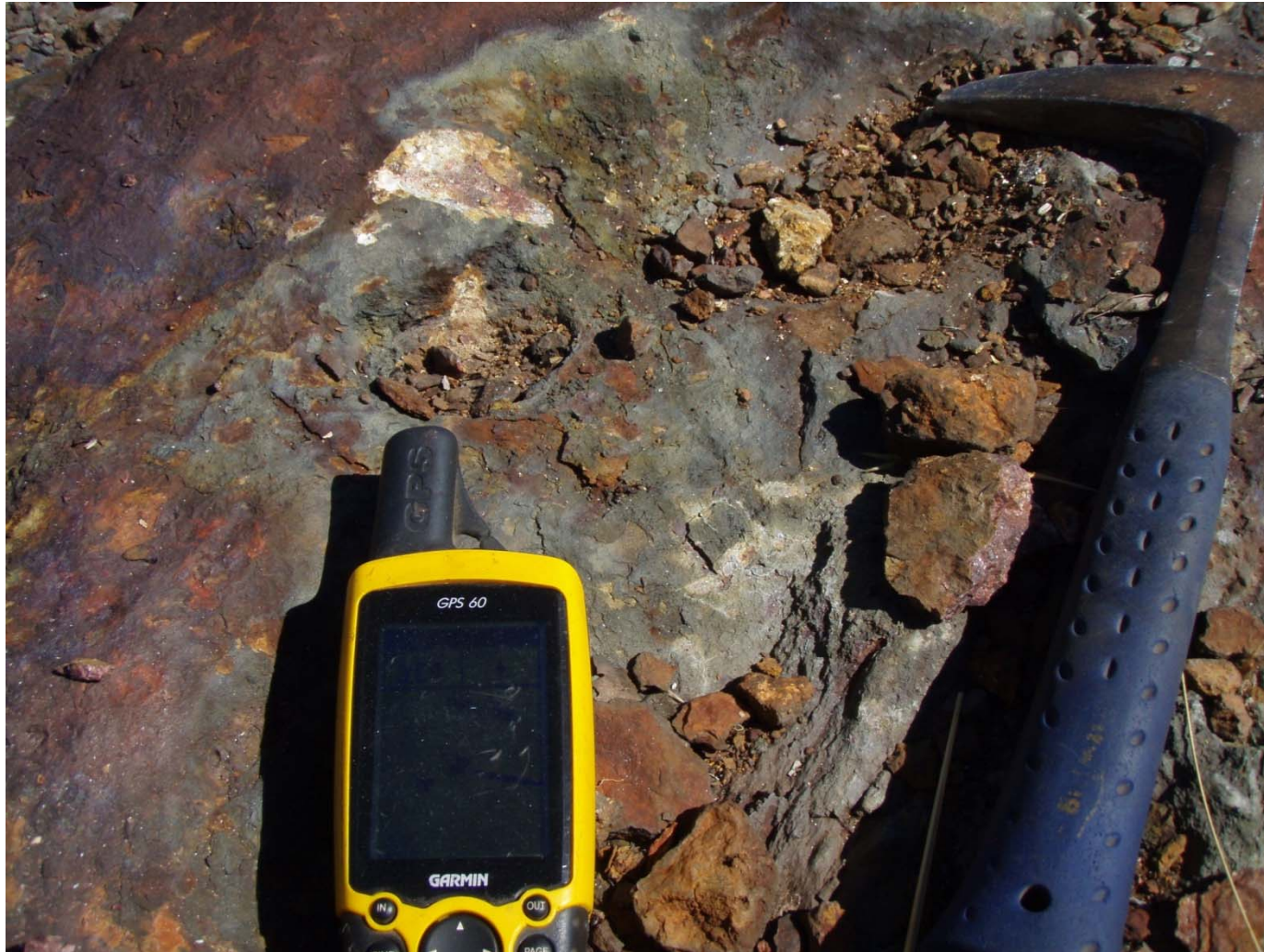
And hosted by calc-silicate rock near the granite contact:

- 14m @ 0.23% Cu

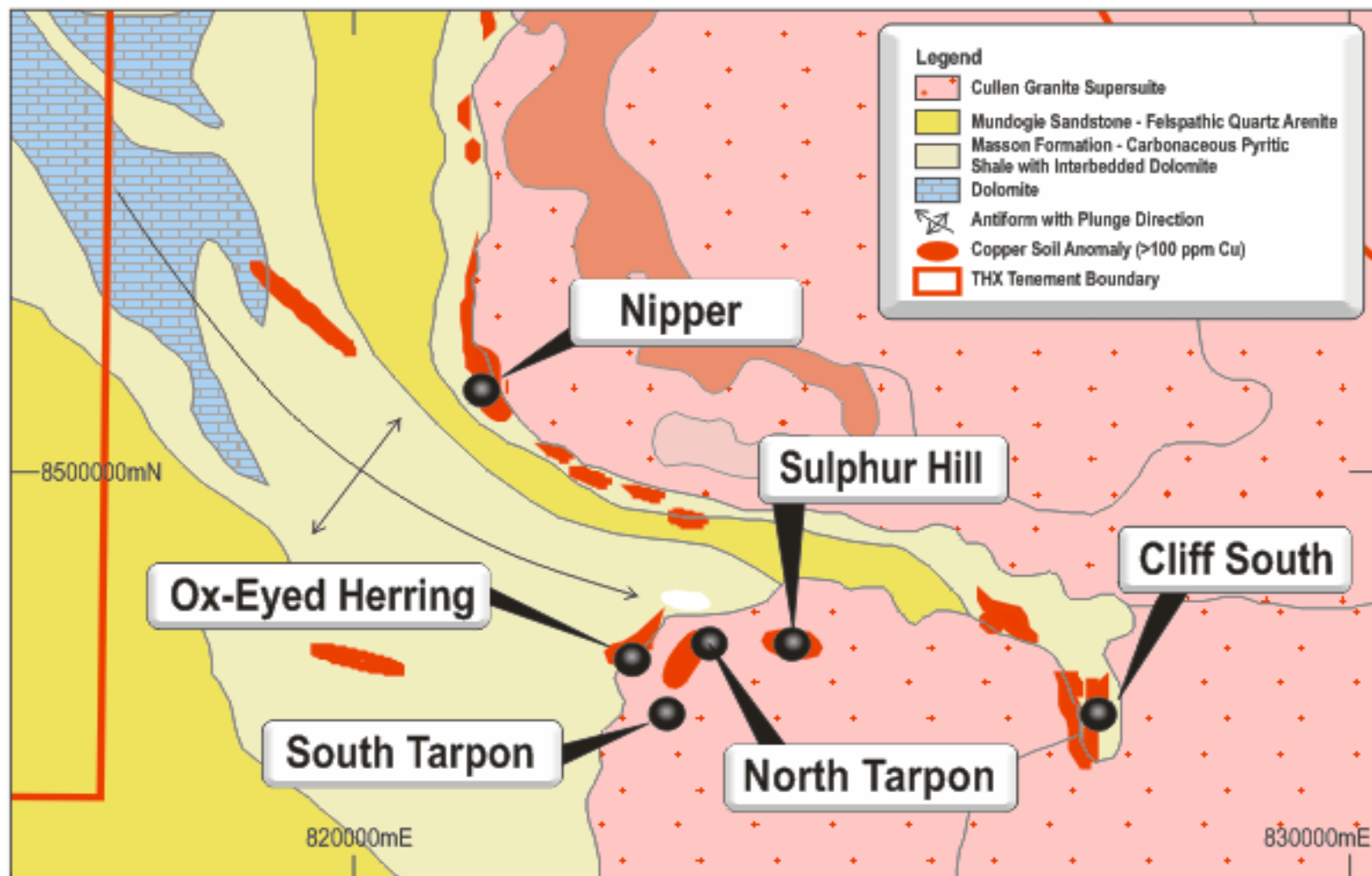
Allamber Project : Tarpon magnetic targets



Allamber : Sulphur Hill sulphidic granite



Allamber Project : immediate prospects



Allamber : some metalliferous intercepts

Copper

- **Hatrick:** 19m @ 1.94% Cu
- **Lucas:** 7m @ 9.69% Cu

Uranium

- **Cliff South**
 - 23m @ 1,304 ppm U_3O_8
 - 19m @ 821 ppm U_3O_8
 - 42m @ 611 ppm U_3O_8

Allamber : petrology



Alkaline granite cross-cutting metasediments.

Uranium mineralisation noted at contact. Minor copper anomalism (~600ppm – 700ppm)

Hole drilled by Total in Cleo prospect area in 1980s

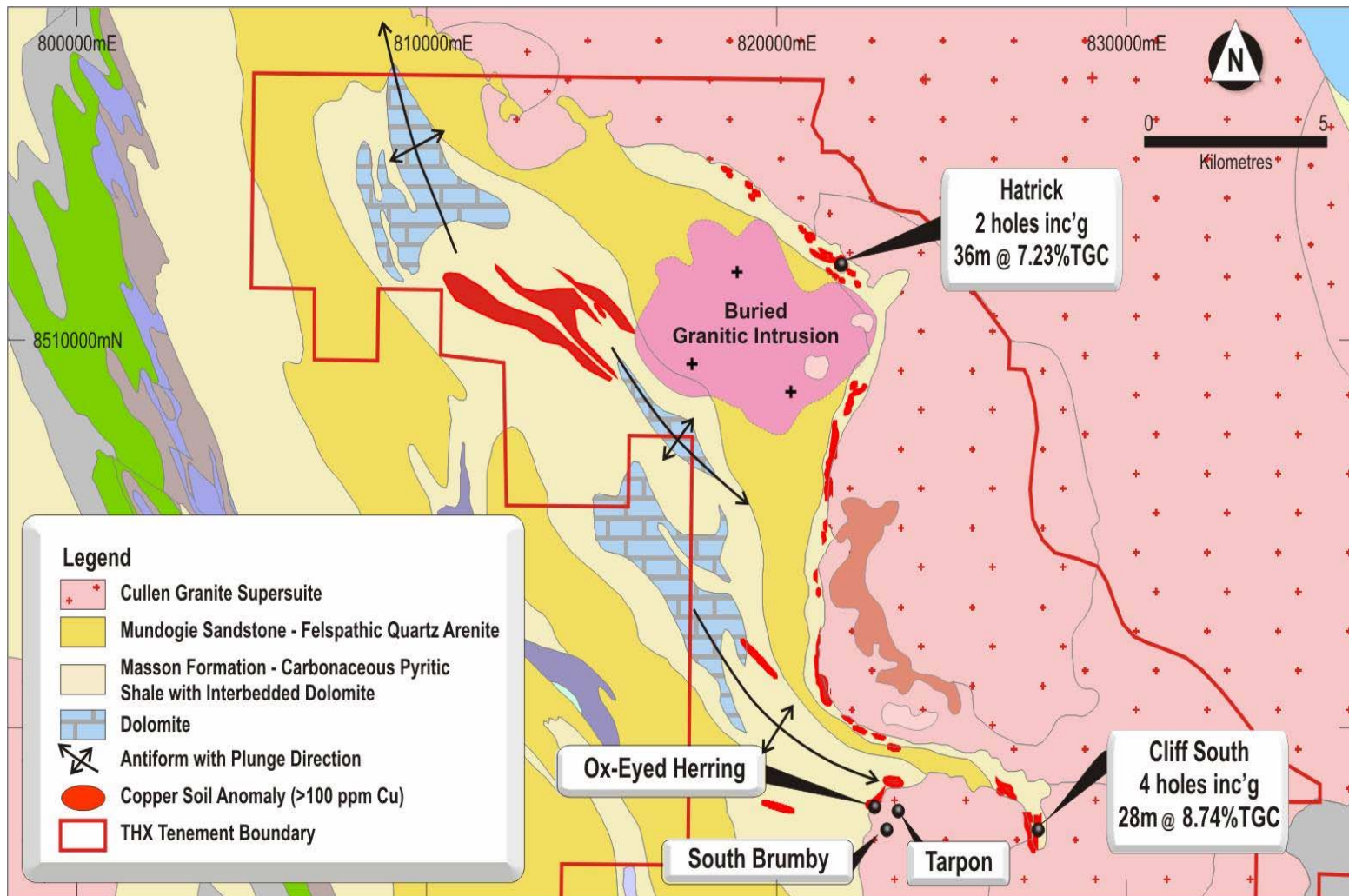
Allamber : petrology



**Granitic veins cross -
cutting Zamu? dolerite.
Sulphide observed (py).**

**Hole drilled by Atom at
Twin prospect area in
2008**

And, not surprisingly, graphite too



Allamber : Cliff South graphite petrography



Sample TK 566435

**High magnification (x200)
showing detail of
schistose graphite flakes.**

***Selected samples from
drill holes at Hatrick and
Cliff South returned total
graphitic carbon (TGC)
assays including:***

- 36m at 7.23% TGC**
- 28m at 8.74% TGC**

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