

GOLD MOUNTAIN

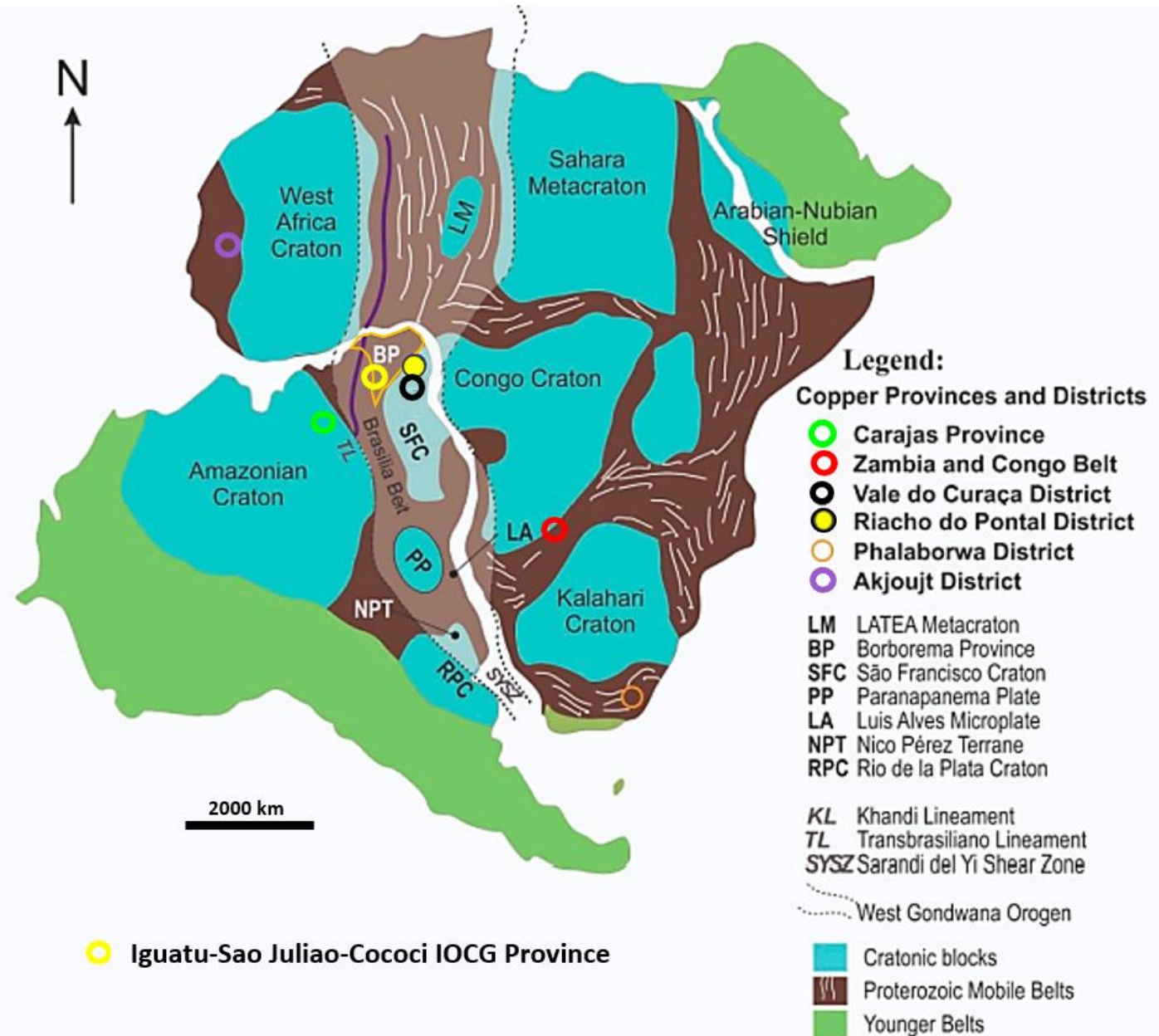
Critical minerals
for the clean
energy transition

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IOCG Copper Project

- Brazil has the largest known concentration of large tonnage IOCG and ISCG deposits
- These are all structurally controlled post orogenic type deposits, same IOCG deposit subtype as Olympic Dam
- Size and grade of median IOCG deposits are a very attractive target for Gold Mountain Ltd
- GMN targets are in the Borborema Province, a region of escape tectonics formed by collision of the Congo-Sao Francisco and Amazonian cratons

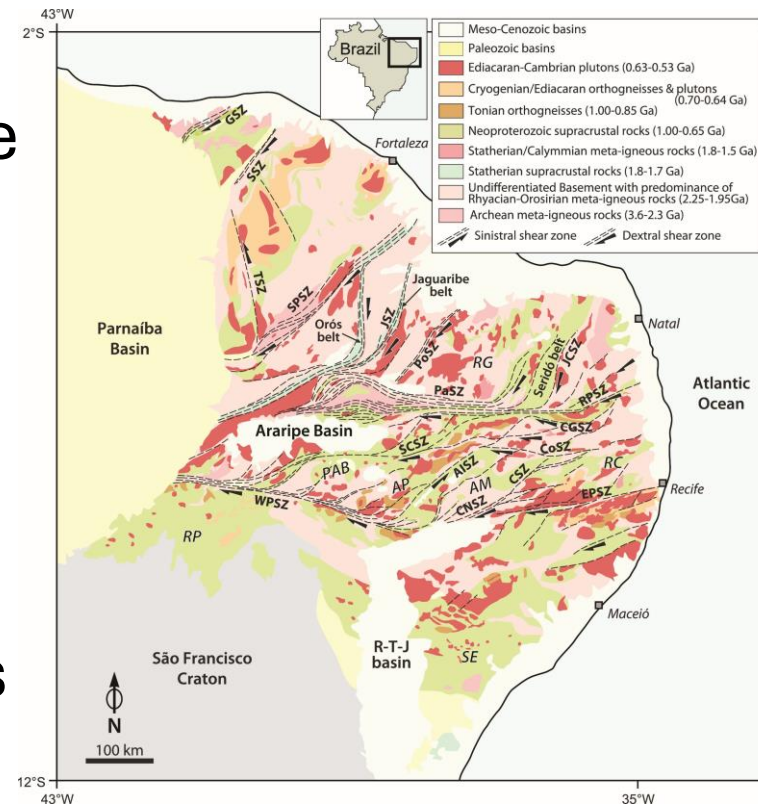


Sources - Maps: 1. Huhn et al

IOCG Copper Project

Escape tectonics allow the crustal rocks to be squeezed away from colliding cratons, creating the deep seated fractures necessary for IOCG deposits to form.

The Borborema Province is an escape tectonics province with numerous deep seated shear zones and many known IOCG type copper and iron occurrences



Sources - Maps: 2 Neves et al 2021; 10. Google Earth; 11. Hughes 2020

IOCG Copper Project

The Borborema Province is an escape tectonics province with numerous deep seated shear zones and many known post orogenic IOCG type copper and iron occurrences of Cambrian age

Occurrence types include breccia hosted and vein hosted

Target median scale is 120 million tonnes at 1.1% Cu and 0.48g/t Au (USGS).

Classification of IOCG and ISCG deposits in Cu-Au-Fe (CGI) mineral systems

Setting	Timing	Geochemical subtype	Mineralogical-redox subtype	Example deposits
Orogenic	Syn-deformational, syn- to late-orogenic	IOCG-Co, ISCG-Co	Reduced to intermediate-redox IOCG & ISCG	Sequeirinho, Eloise
		IOCG-Co-REE	Intermediate-redox to oxidised IOCG	Ernest Henry
Post-orogenic	Post-orogenic, post-subduction	IOCG-REE	Oxidised IOCG	Olympic Dam
Arc-hosted	Pre-orogenic, syn-subduction	IOCG (low Co, REE)	Reduced, intermediate-redox & oxidised IOCG	Candelaria, Mantoverde

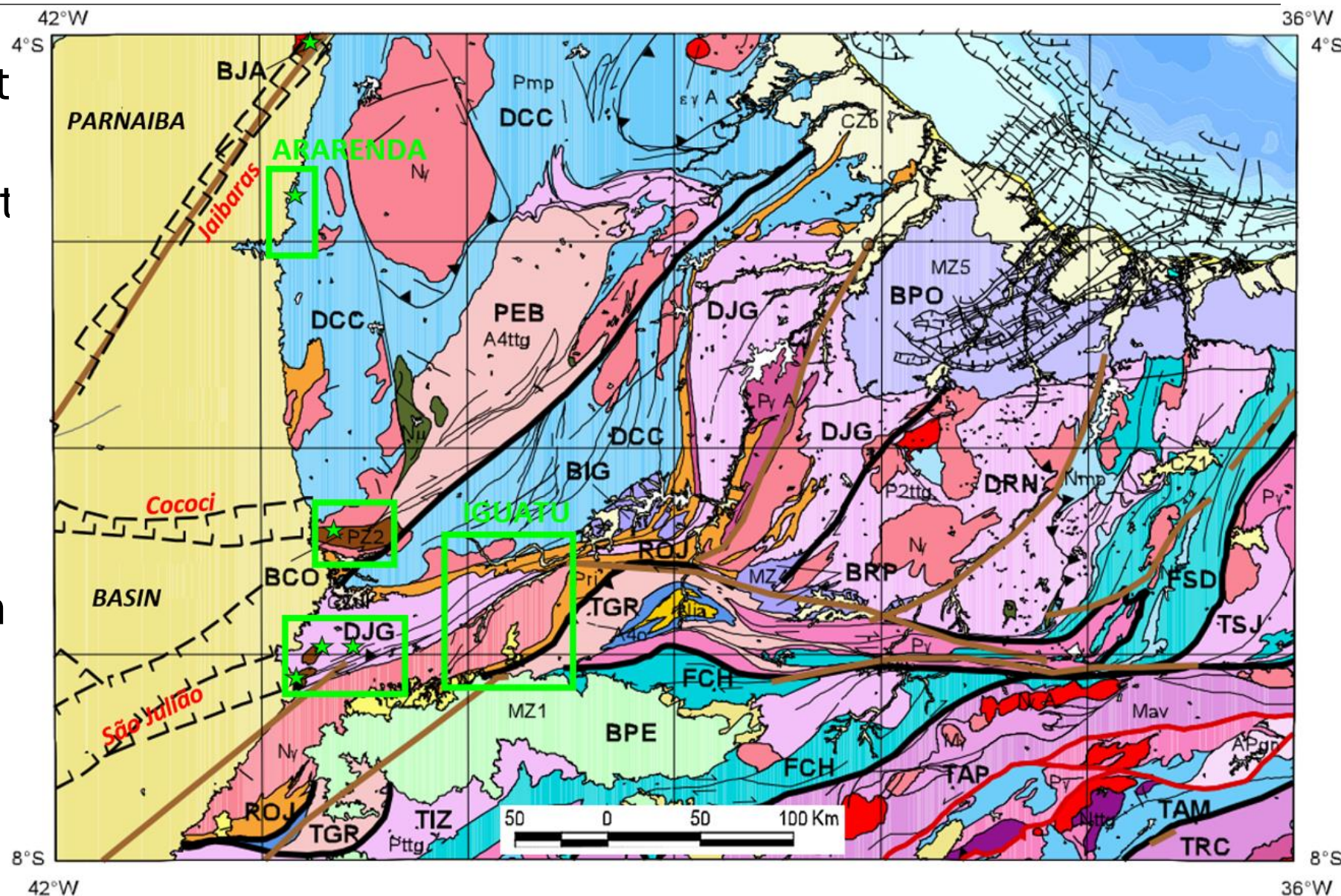
IOCG = iron oxide Cu-Au deposits, ISCG = iron sulfide Cu-Au deposits (= low-Fe-oxide Cu-Au deposits)
 IOCG-Co deposits are enriched in Co± Ni, Bi, Se, Te, In
 IOCG-REE deposits are enriched in REE± U, F, Ba

Deposit Subtype	No of Deposits	Median tonnage million tonnes	Median grade Cu%	Median Grade Aug/t	90 Percentile grade	10 Percentile grade	Tonnage Range by percentile million tonnes
Fault/Vein Hosted	12	3.5	2.3	1.0	1.2% Cu, 0.14g/t Au	4.9% Cu, 5.8g/t Au	90% 0.65 10% 15
Fault zone/Breccia hosted	21	120	1.1	0.48	0.41% Cu, 0.13g/t Au	1.7% Cu, 2.1g/t Au	90% 25 10% 1,100

Sources - Tables: 3. Cox and Singer 2007

IOCG Copper Project

- Main post tectonic Cambro-Ordovician rift zones named
- Older rift zones present dating back to at least Lower Proterozoic
- Deep seated faults
- Known IOCG type Cu mineralisation (green stars)
- GMN tenements within green rectangles total 1820 km²



Sources - Map: 4. Angelim et al 2004

IOCG Copper Project

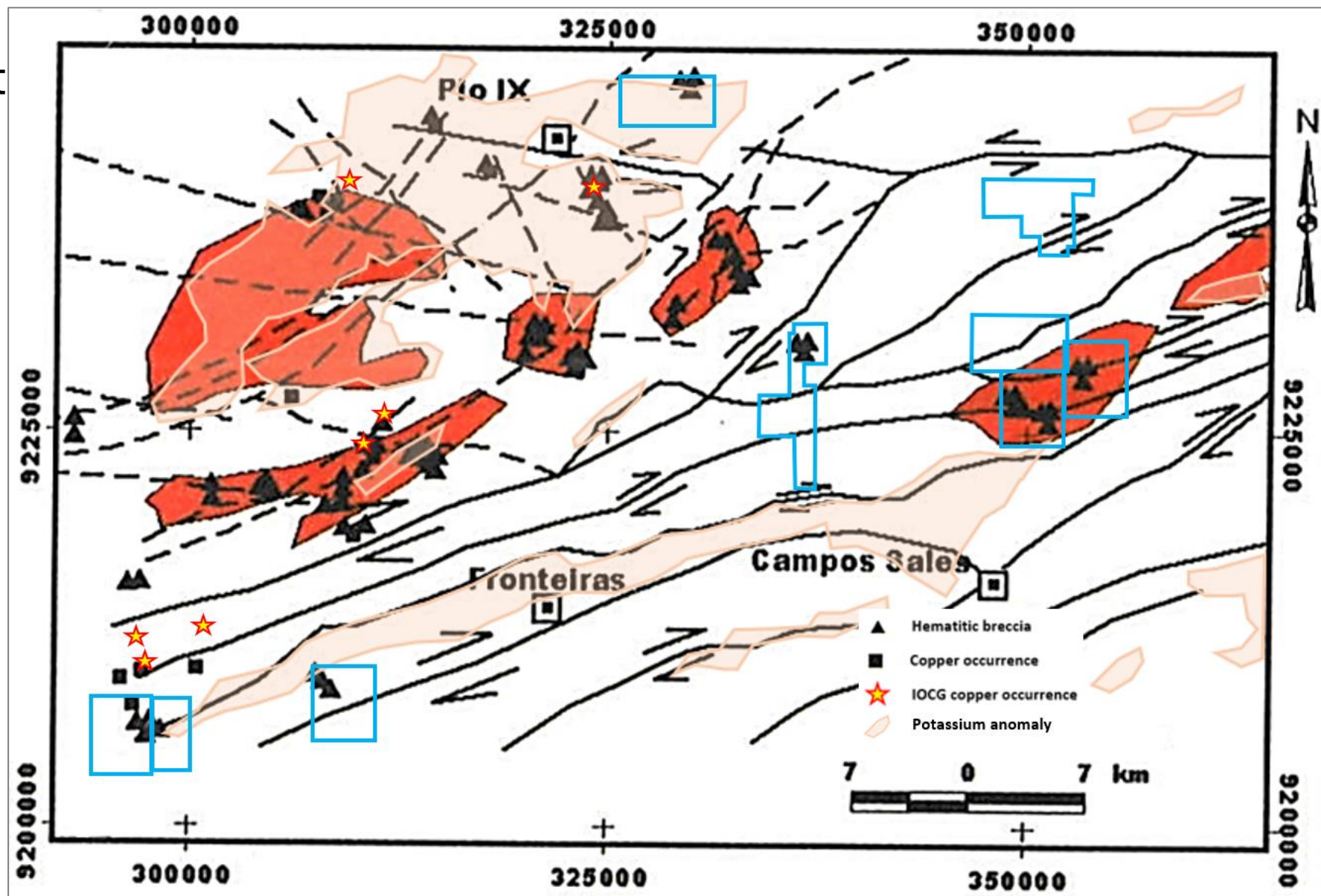
- Coccoci and São Julião tenements have known IOCG copper and iron occurrences
- Iguatu tenements have known iron occurrences and numerous magnetic anomalies indicative of additional iron occurrences,
- Tenements area 1610 km²



Sources - Map: 5. CPRM website

IOCG Copper Project

- Coccoci and São Julião tenements have at least 13 confirmed IOCG Cu occurrences, many iron plus other copper occurrences
- Extensive areas with potassic alteration and/or uranium enrichment are present
- Structures related to the escape tectonics of the Borborema Province are present



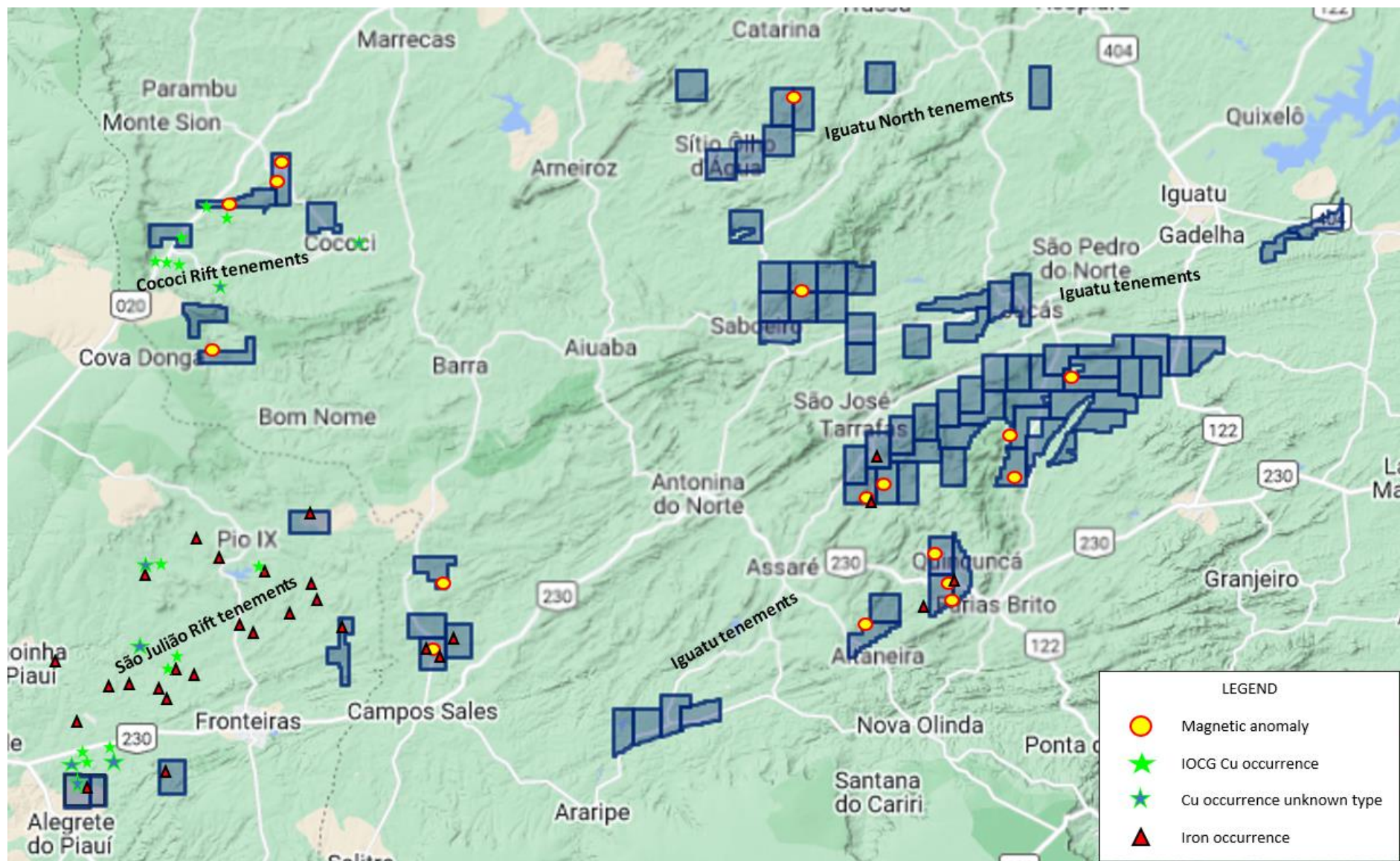
Sources - Map: 6. Maas et al 2003, 7. Machado 2006

IOCG Copper Project

Iguatu tenements have known iron occurrences and numerous magnetic anomalies indicating more iron occurrences

Underexplored region

Detailed academic work in São Juliao and Cococi shows IOCG copper as well as unknown type copper

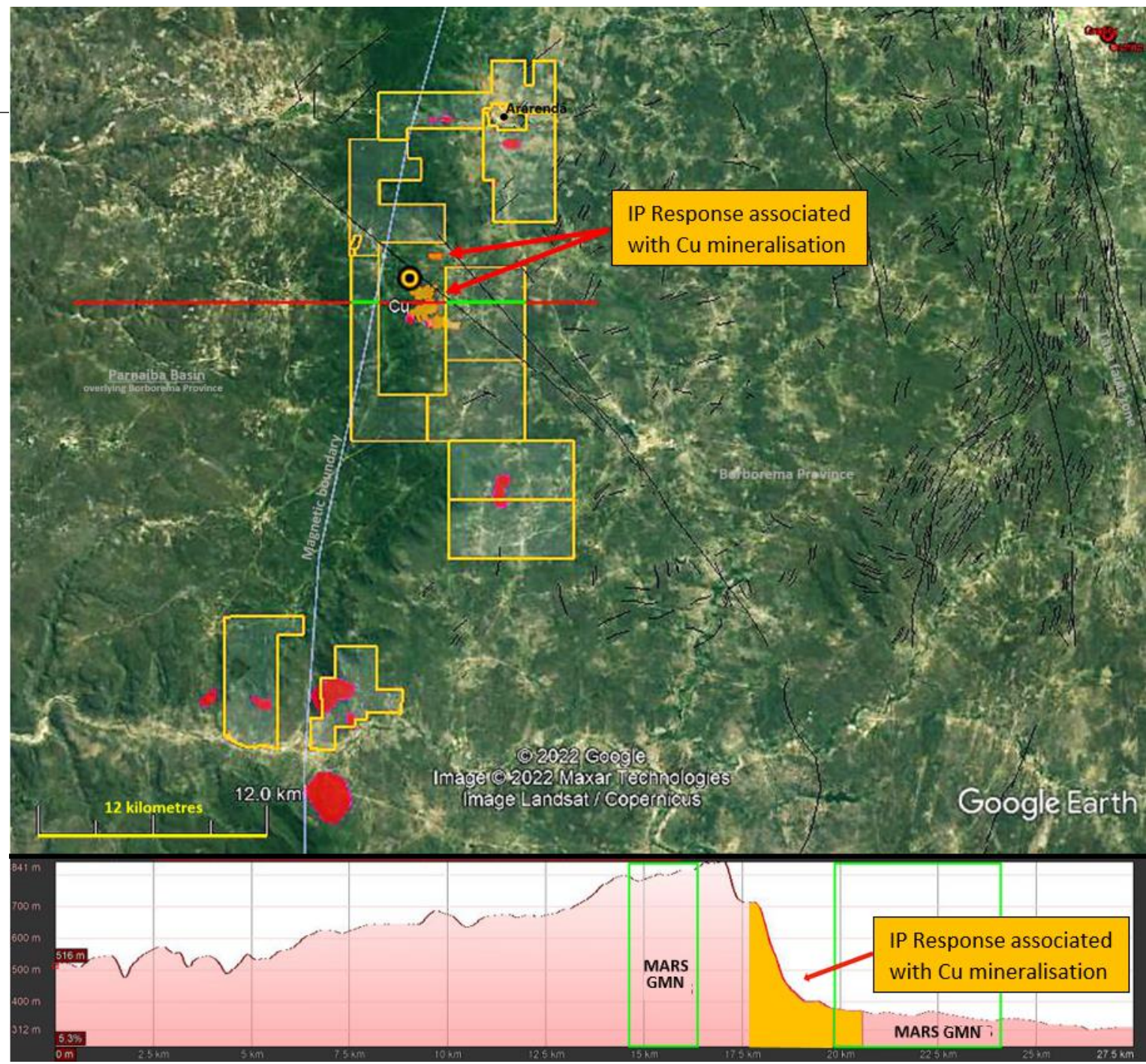


Sources - Map: 6. Maas et al 2003, 7. Machado 2006, 8. ANM

IOCG Copper Project

Ararenda tenements (210 km²) have known IOCG copper as well as many Fe occurrences

IP survey carried out as part of these work. IP anomaly extends onto GMN tenements and the IP anomaly is open in all directions.



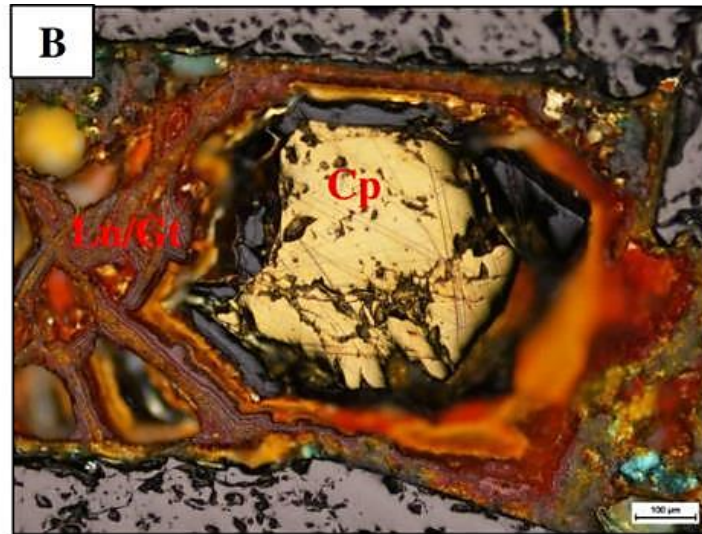
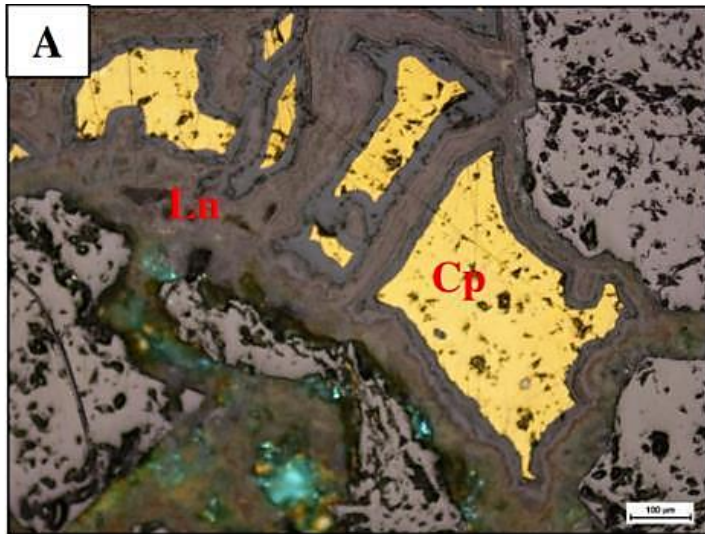
Sources - Map: 8. Silva 2016; 10 Google Earth

IOCG Copper Project

Known Cu mineralisation undeformed so post tectonic and latest stage of alteration and mineralisation – typical of IOCG type

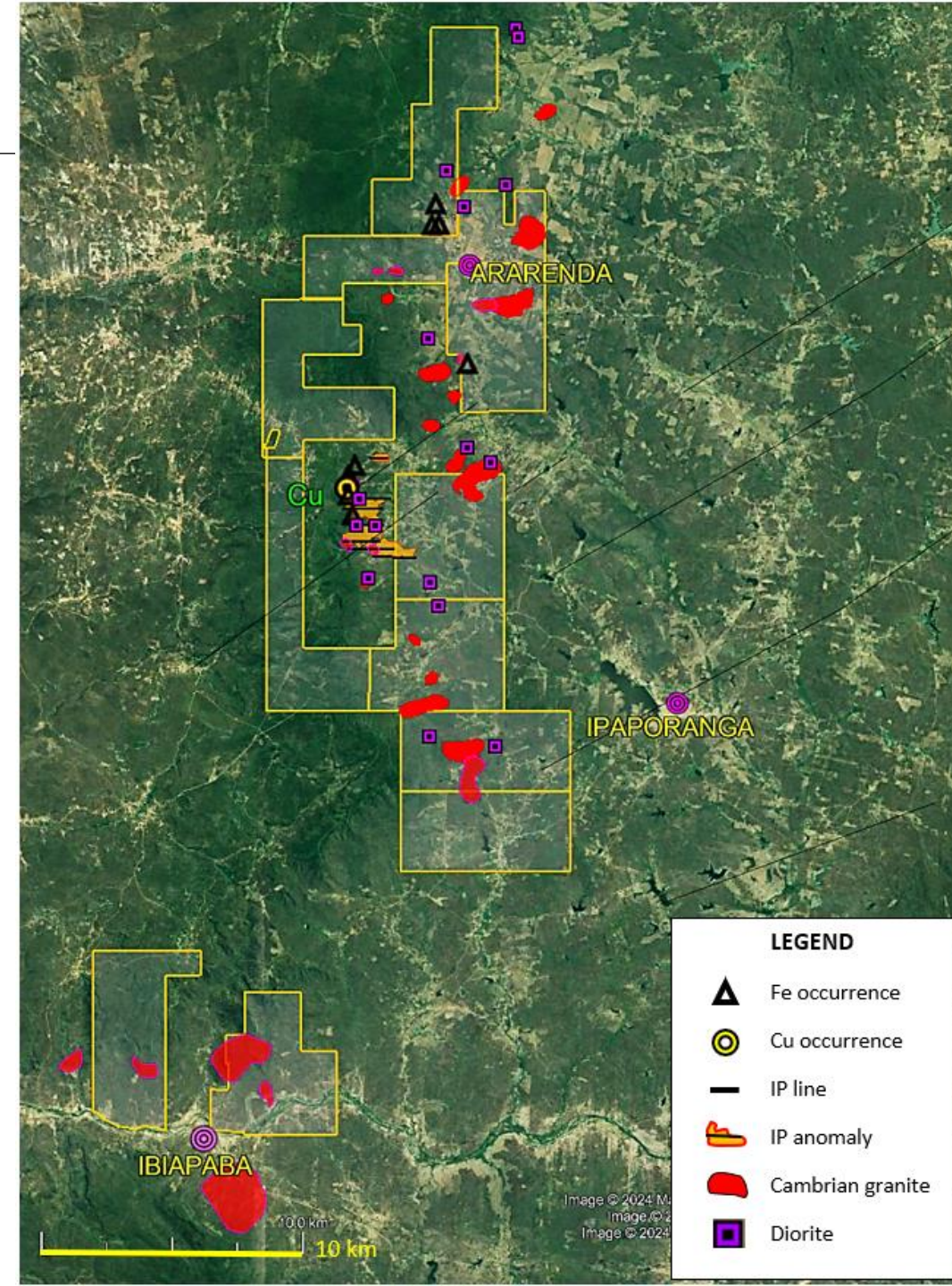
Mineralisation probably related to late hydrous post tectonic granites of Cambrian age, similar to dated IOCG mineralisation in Jaibaras Rift

Sodic alteration overprints mafic diorites



Each photo is 1.16 mm across, undeformed chalcopyrite grains are small.

Sources - Map: 8. Silva 2016; ; 10 Google Earth



IOCG Copper Project

PREVIOUS EXPLORATION- not in GMN Tenements

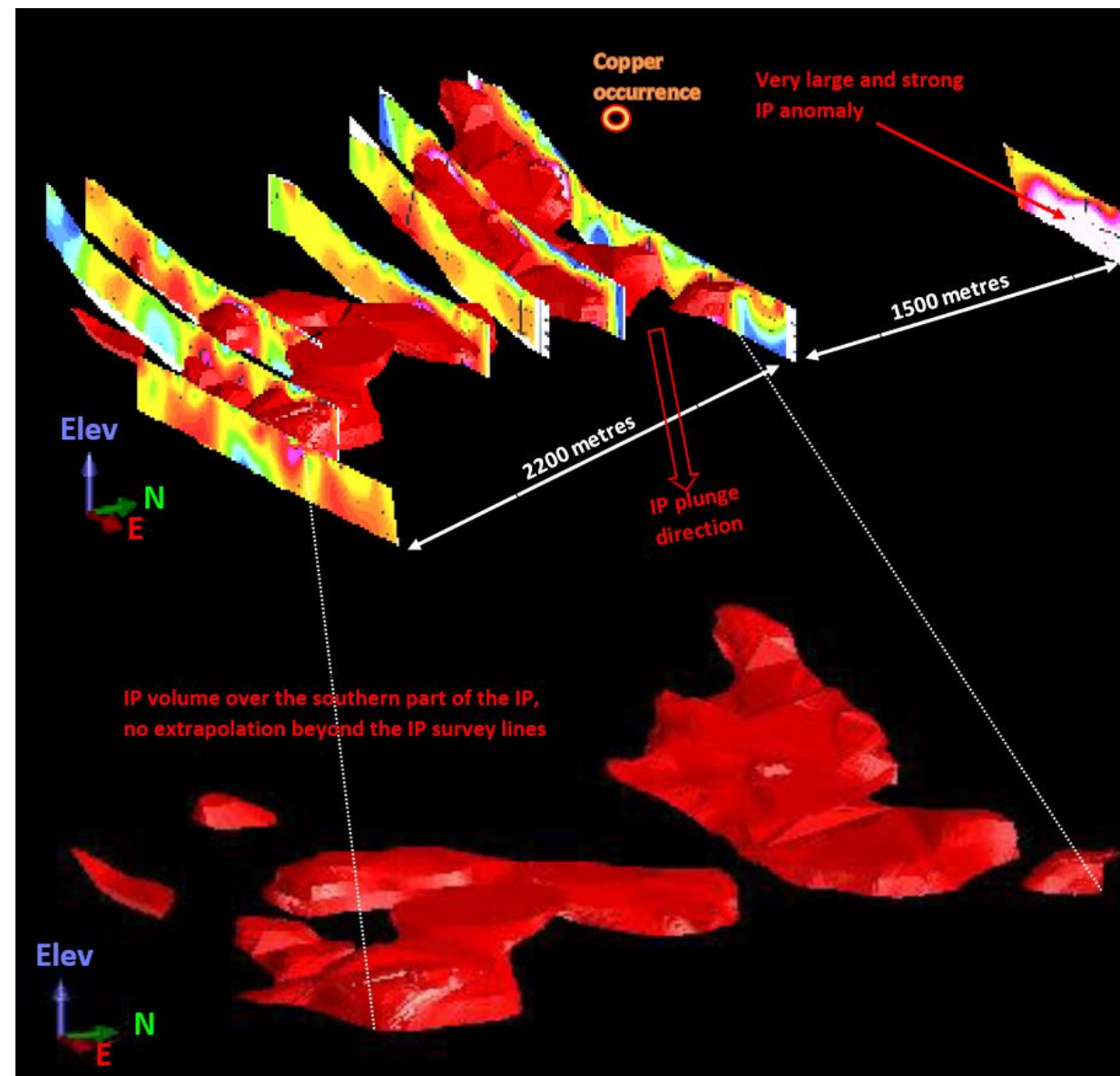
Existing IP survey interpretation with E-W lines and SE plunge to mineralisation

Volume estimated at 70 million m³ of highly chargeable rock (~250 mt)

Late sulphides overprint all earlier mineralisation “**chalcopyrite crystals represent about 3% of the rock volume...amount of copper sulphide should be much greater than found**” due to oxidation

Single analysis of >1% Cu, 0.16g/t Au

Sources - Map: 8. Silva 2016; ;



IOCG Copper Project

SYSTEMATIC EXPLORATION PLANNING

- Stream sediment sampling is the most cost effective way to cover large areas of ground rapidly. This is in progress.
- Sites have been designed to cover the tenements effectively and to allow a focus on near surface mineralisation as the first priority
- Known large scale iron oxide occurrences will also form part of the high priority areas to explore.
- All sites for testing known magnetic anomalies, copper anomalies, iron occurrences and IP anomalies have been identified and prioritised for sampling.
- Target characteristics are well known so exploration techniques understood
- Potential target scale is highly attractive to GMN

IOCG Copper Project

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IOCG Copper Project

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11. Hughes N; Geology Professor Explains how the Collision of India with Asia changed the World.
<https://www.youtube.com/watch?v=9zU1tr4YJYQ>

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GMN ASX Release 19 June 2023 [Proposed Acquisition of Significant Li Tenements in Brazil](#)

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