



**Founders
Metals**

Antino Gold Project

Structural Settings & Gold Mineralization

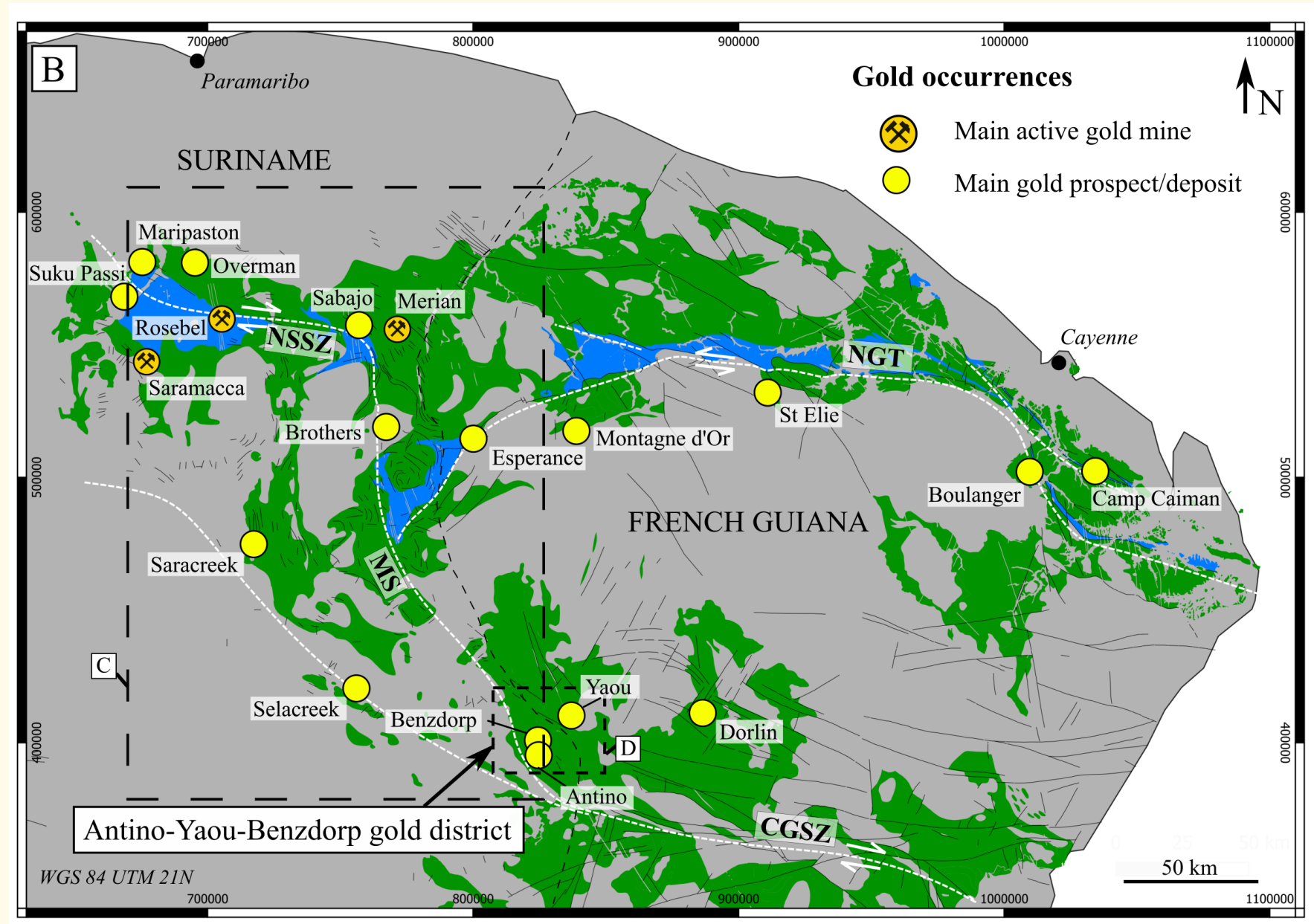
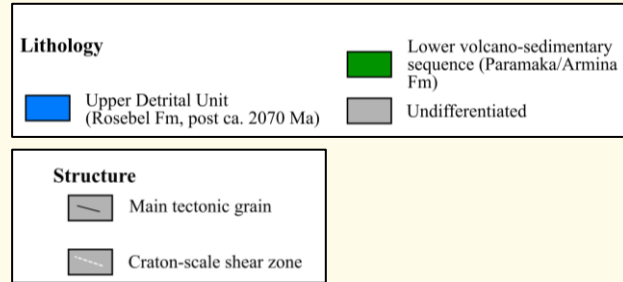
**Vincent Combes, Chief Geologist, PhD,
& the Founders Metals Exploration Team**

TSX-V FDR

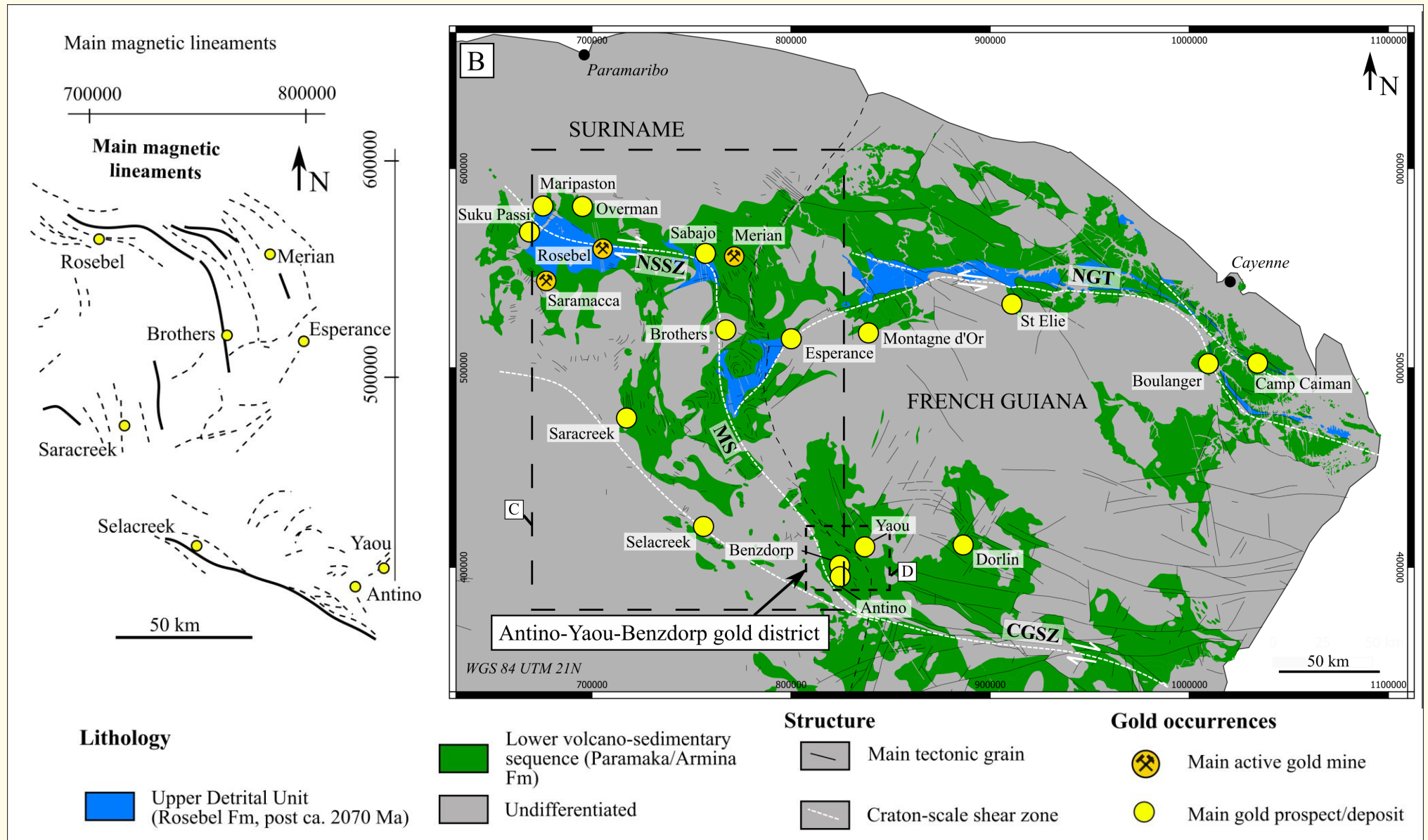
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The Antino Gold Project Within The Guiana Shield

- NE part of Guiana Shield
- 3 active mines



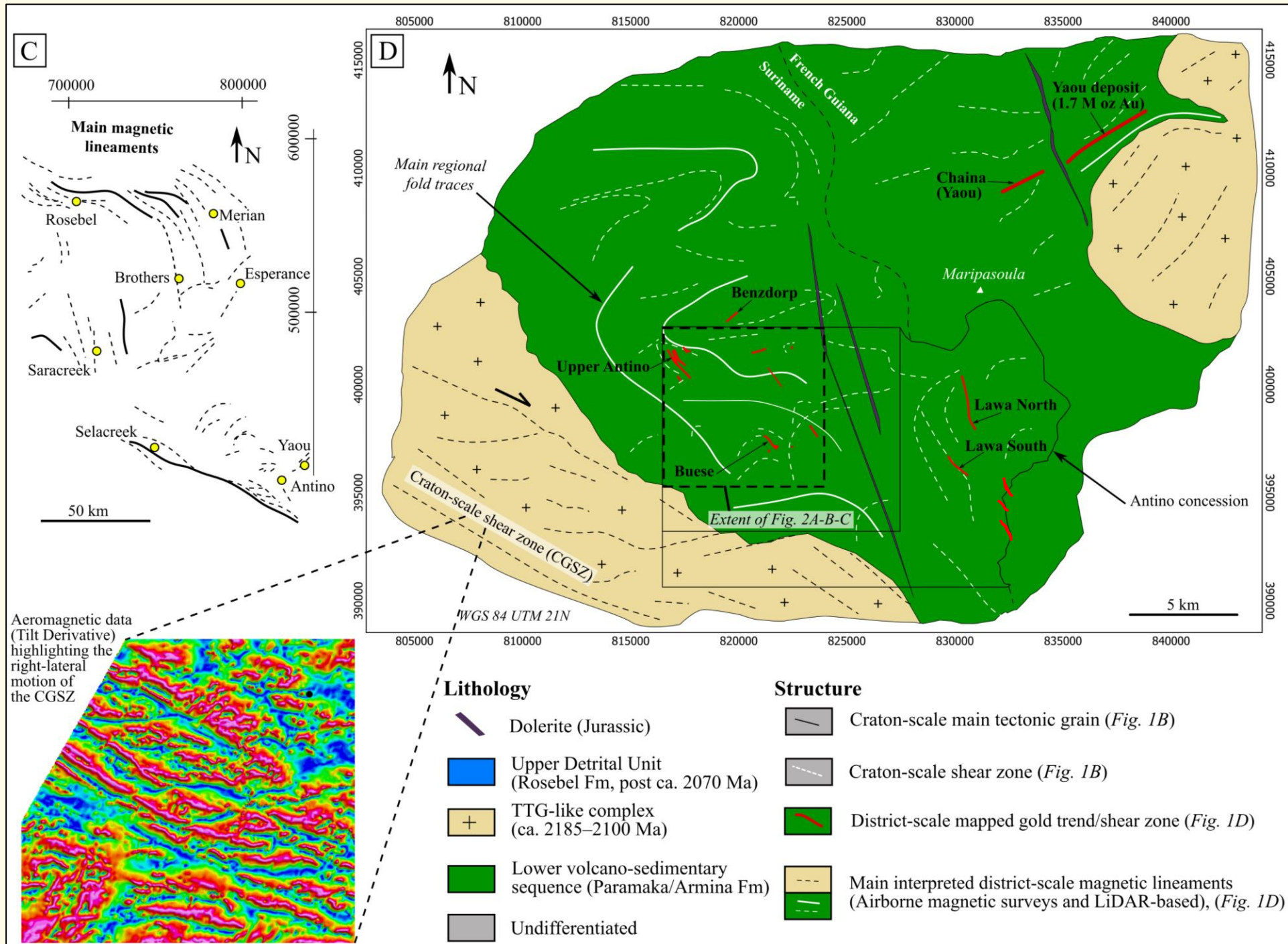
The Antino Gold Project Within The Guiana Shield





Gold district

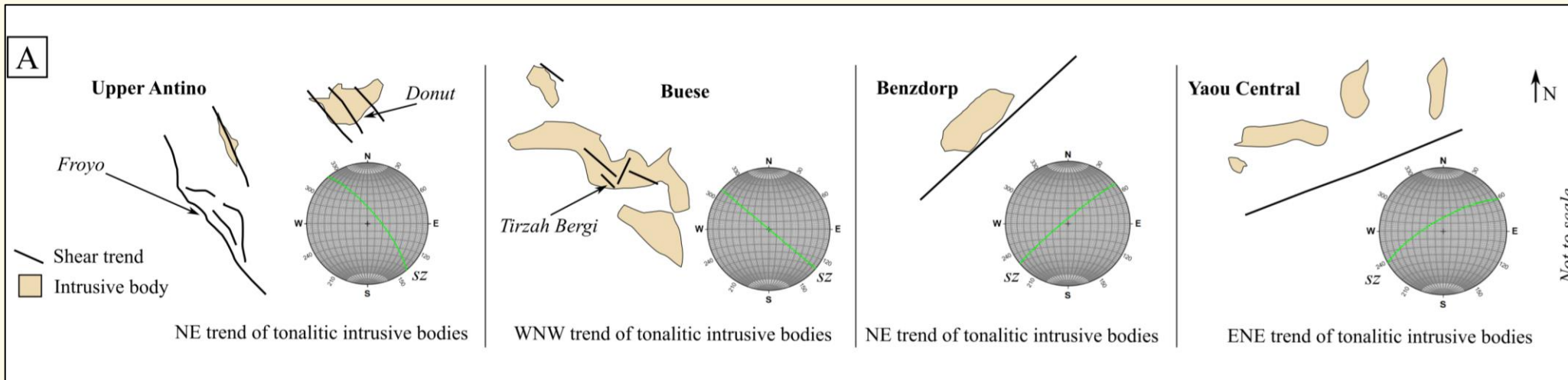
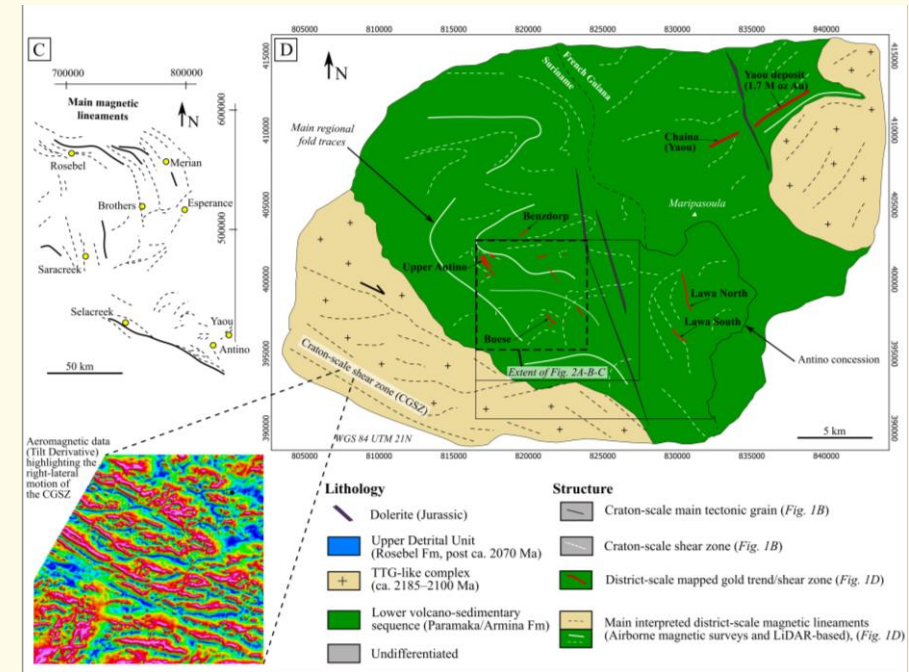
- Prolific gold district
- Yaou-Benzdorp-Antino
- Large fold traces in volcano-sedimentary sequence
- First, second/third order structures
- Multiple gold trends (sz and intrusion hosted)
- CGSZ strike slip dextral, steeply dipping to NW, horizontal





Gold district

- At least 9 identified areas with tonalitic intrusion-hosted orogenic gold mineralization in the district

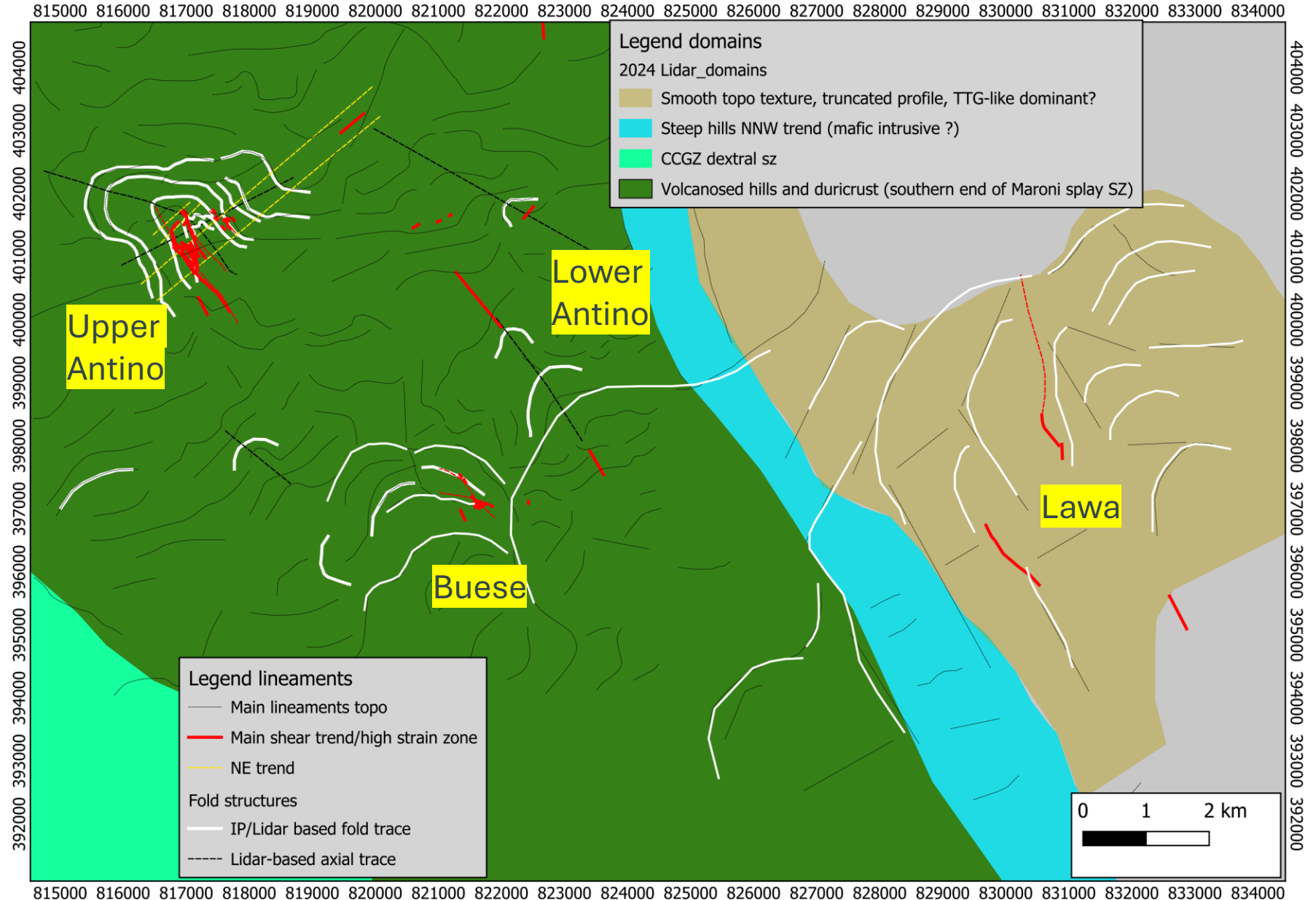


+
Lawa
trends



Antino Gold Camp

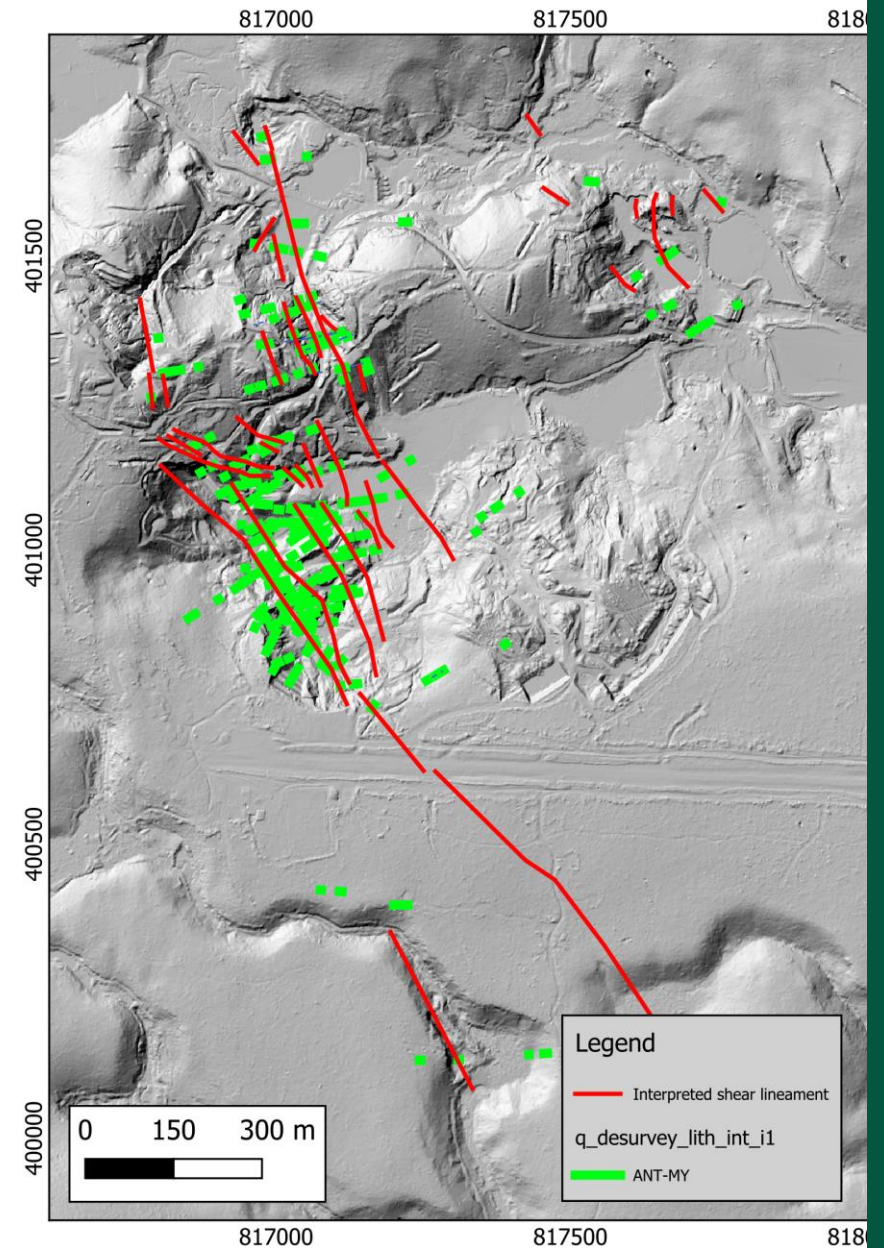
- Concession
- Multiple Au-bearing shear structure
- ENE main fabric
- Spatial association with fold structures
- Both shear zone and intrusion-hosted orogenic gold system



Upper Antino Exploration Target



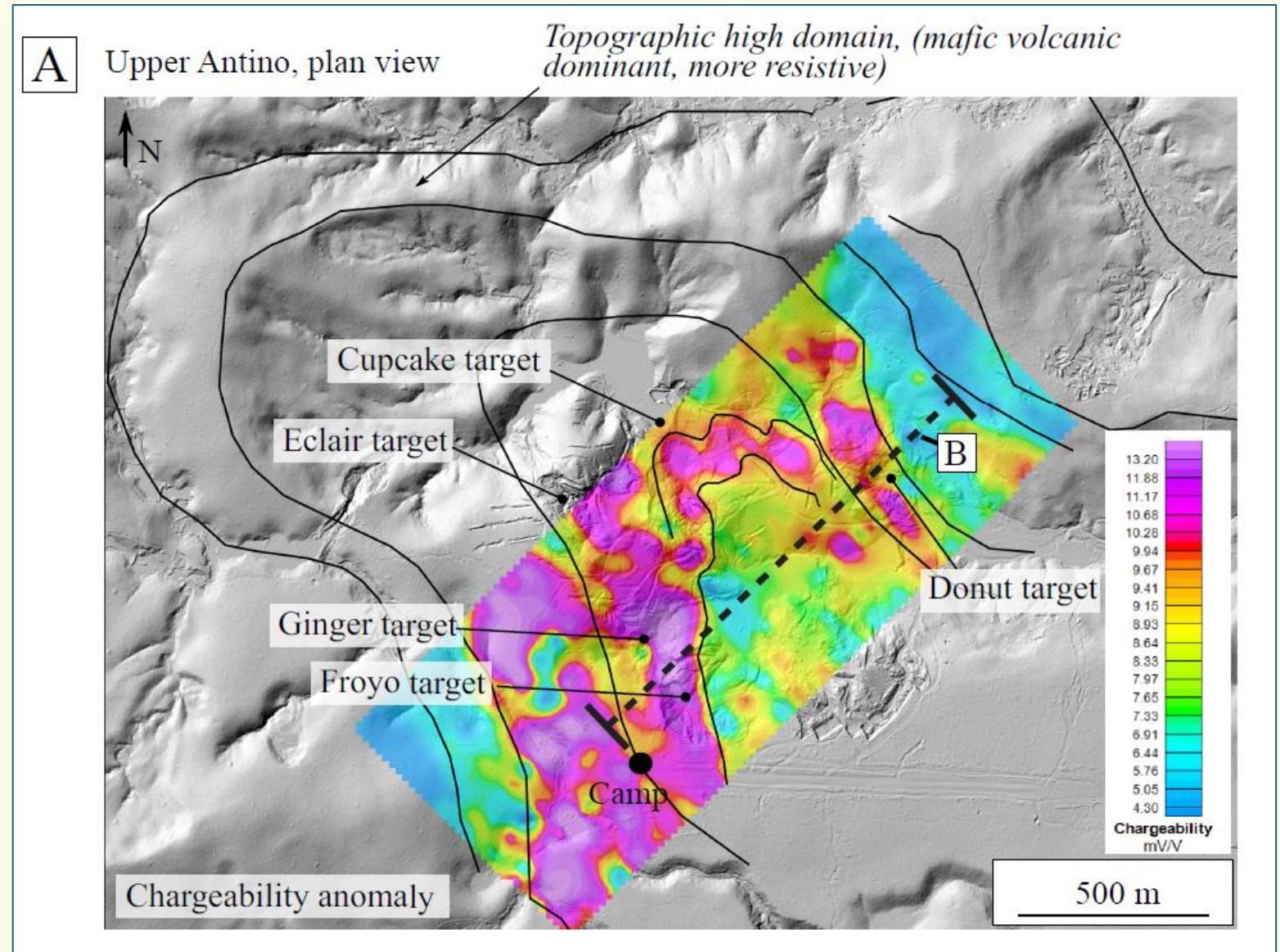
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Upper Antino

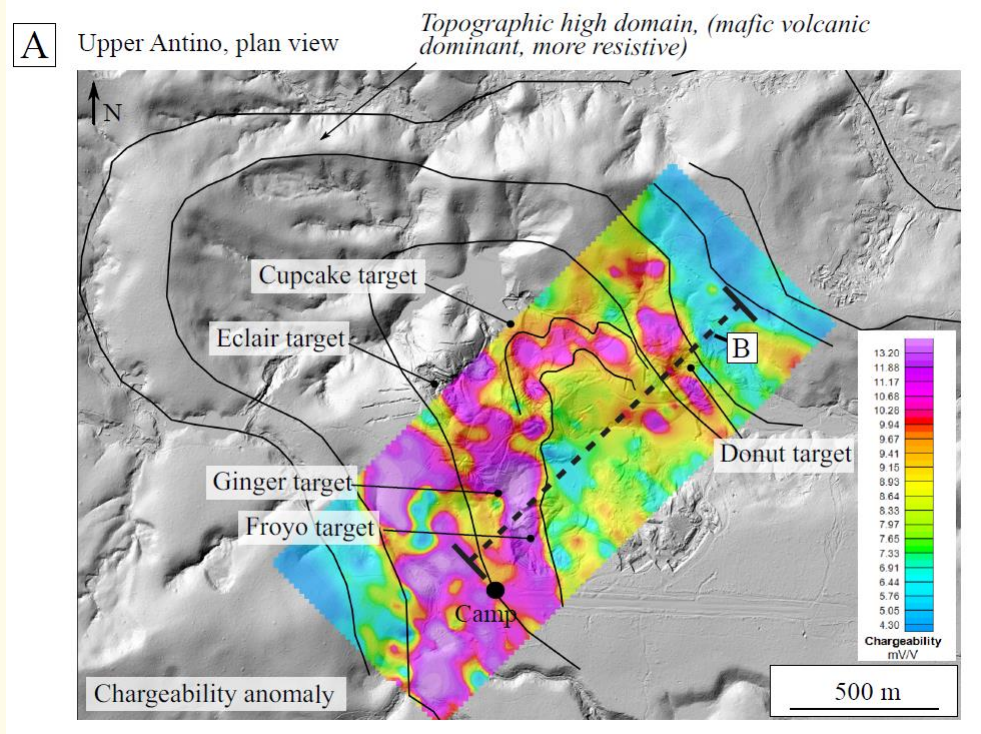
- Fold closure of NW plunging fold structure
- Based on mapping, Lidar and IP



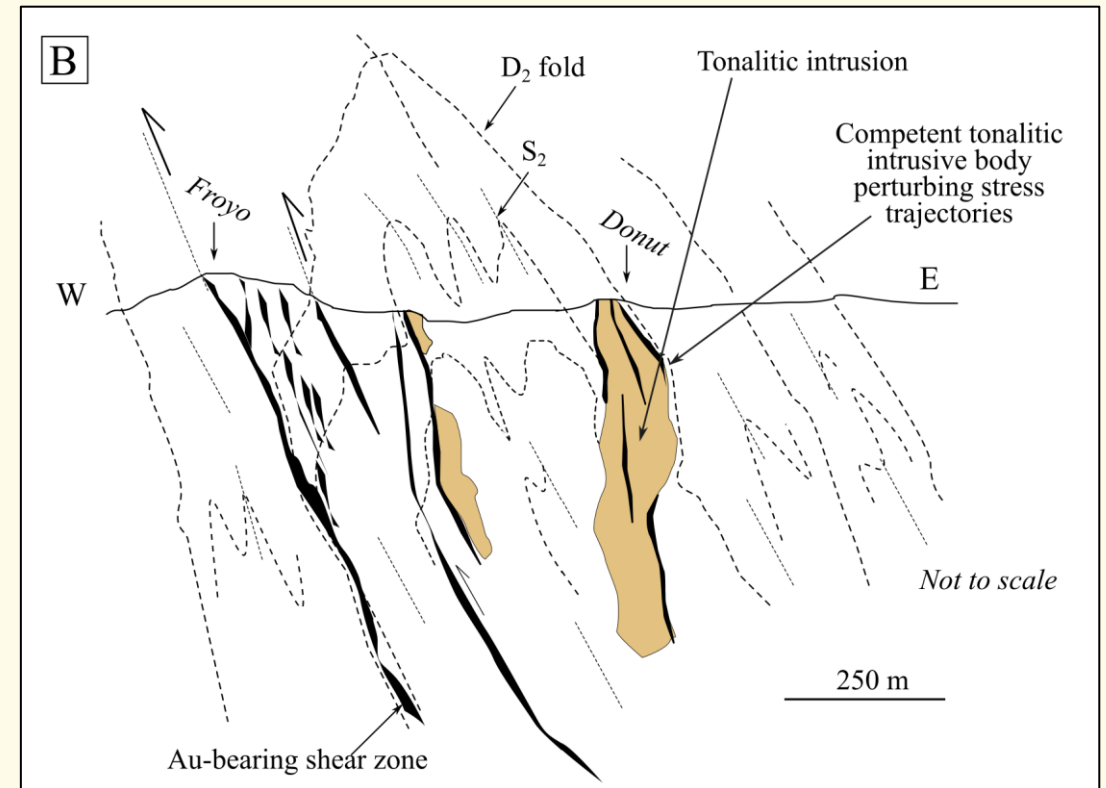


Upper Antino

- Fold closure of NW plunging fold structure
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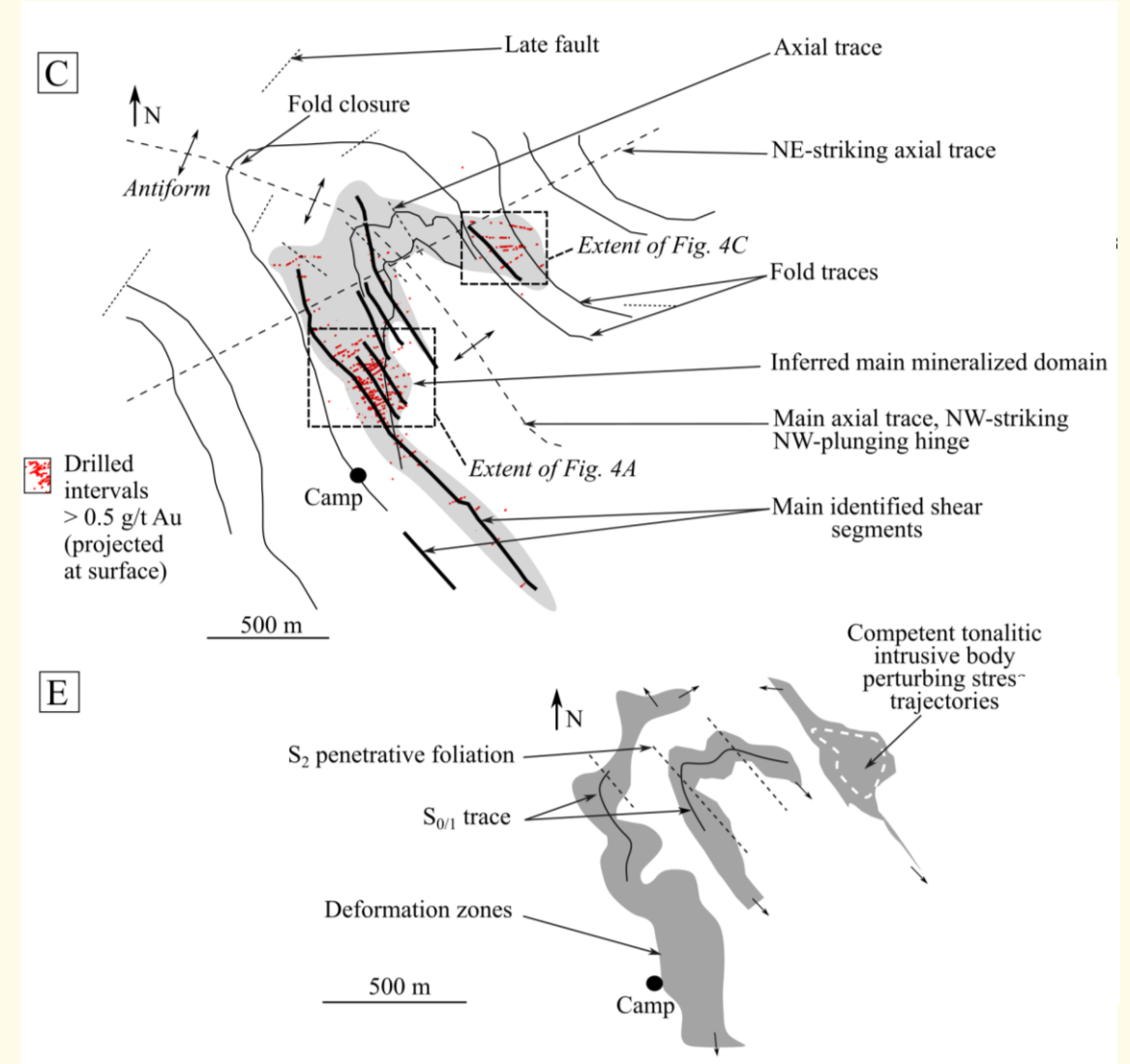
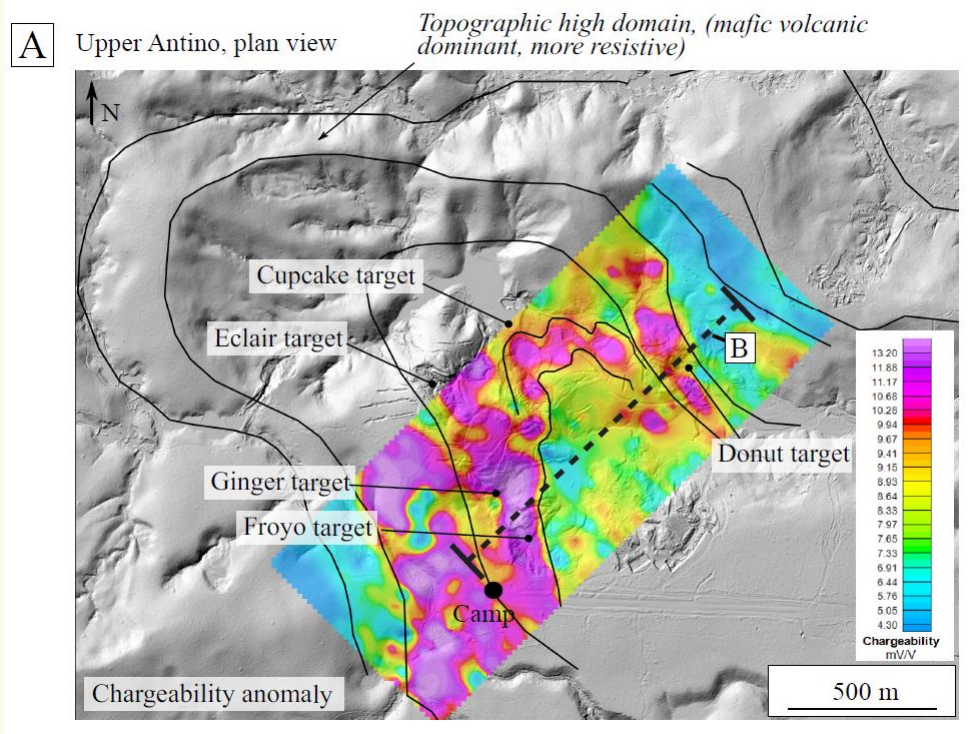
- Froyo East dipping, Cupcake and Donut West dipping





Upper Antino

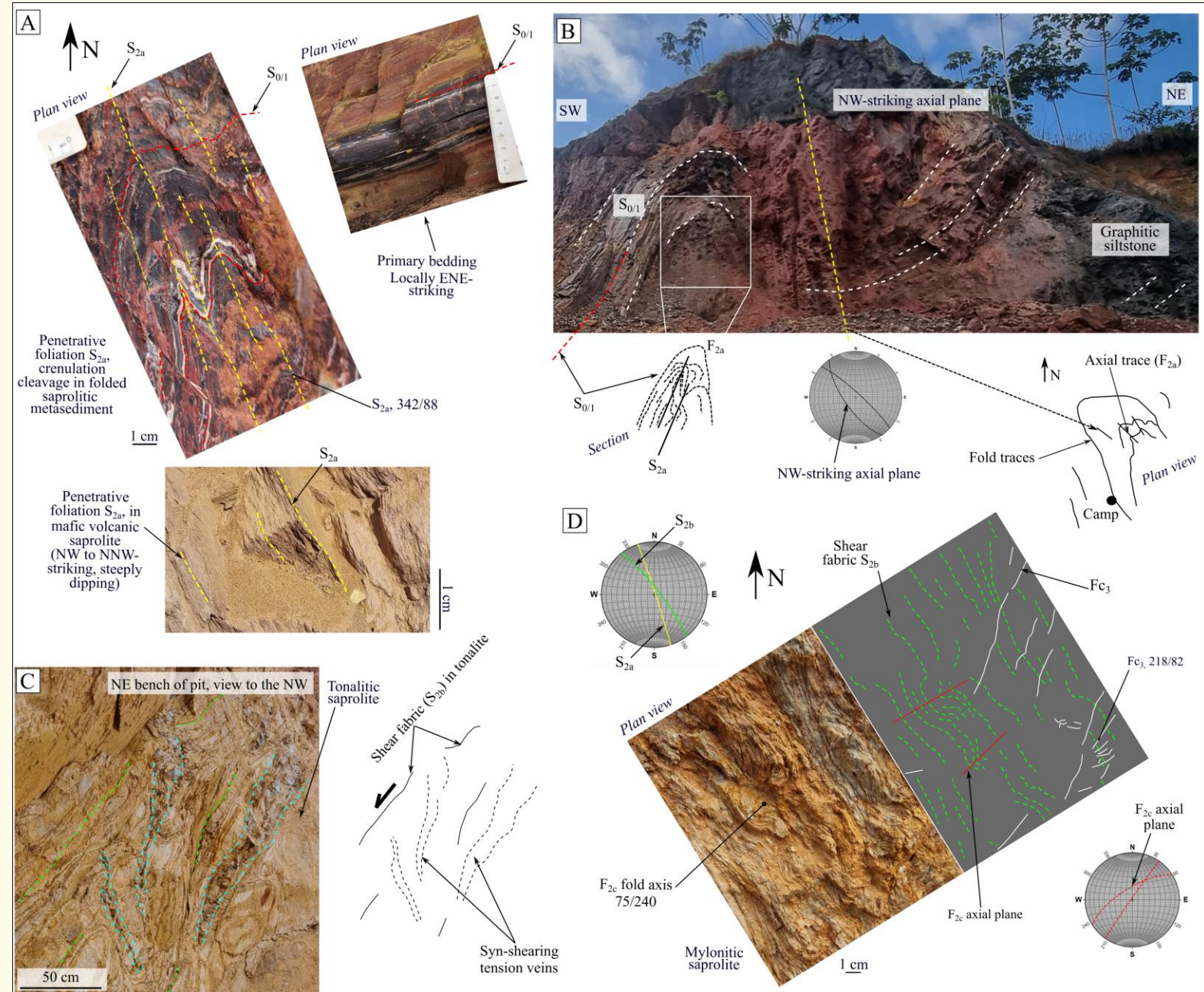
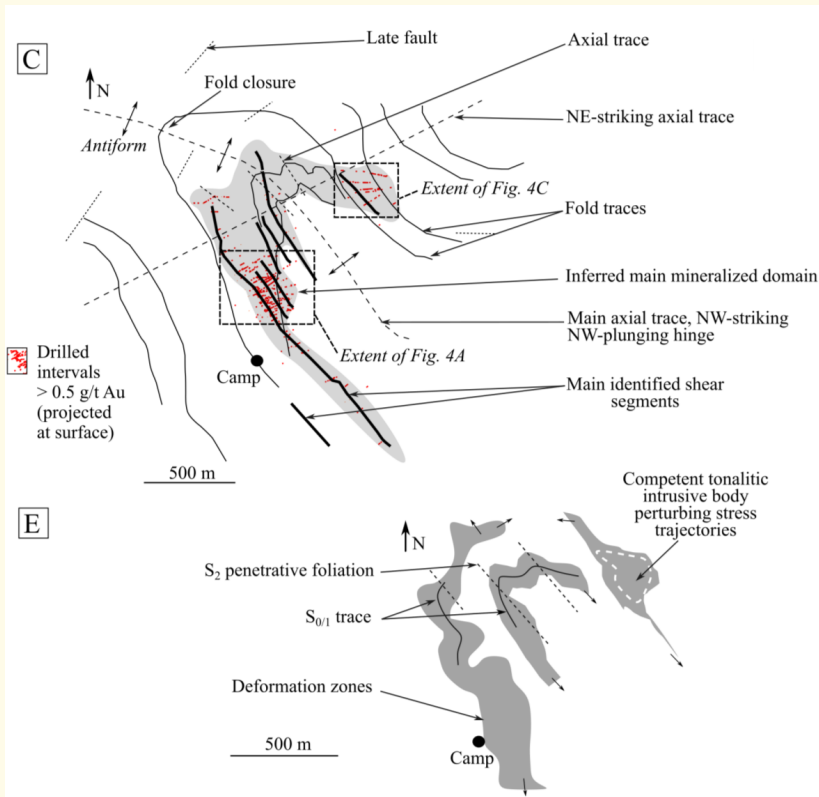
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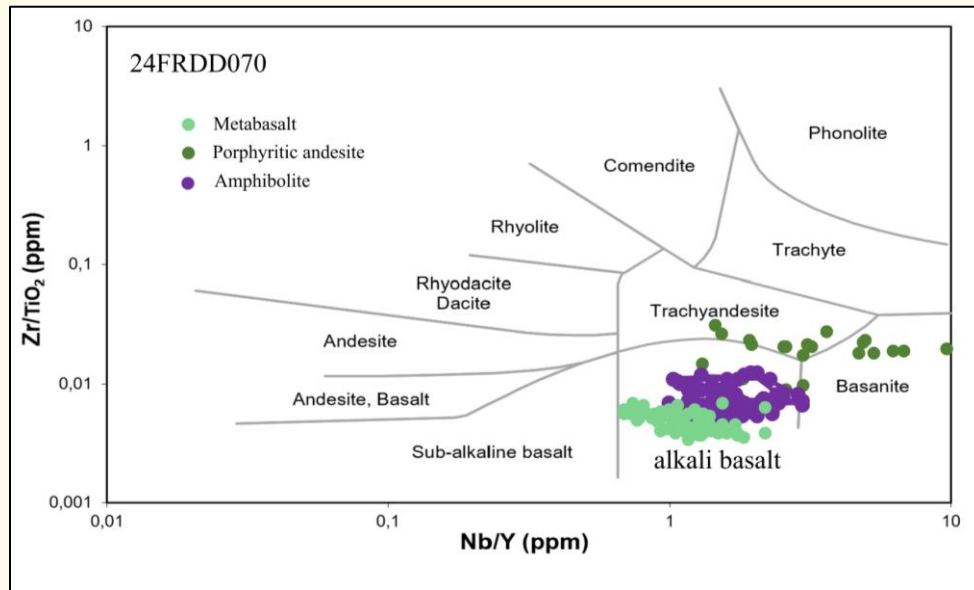
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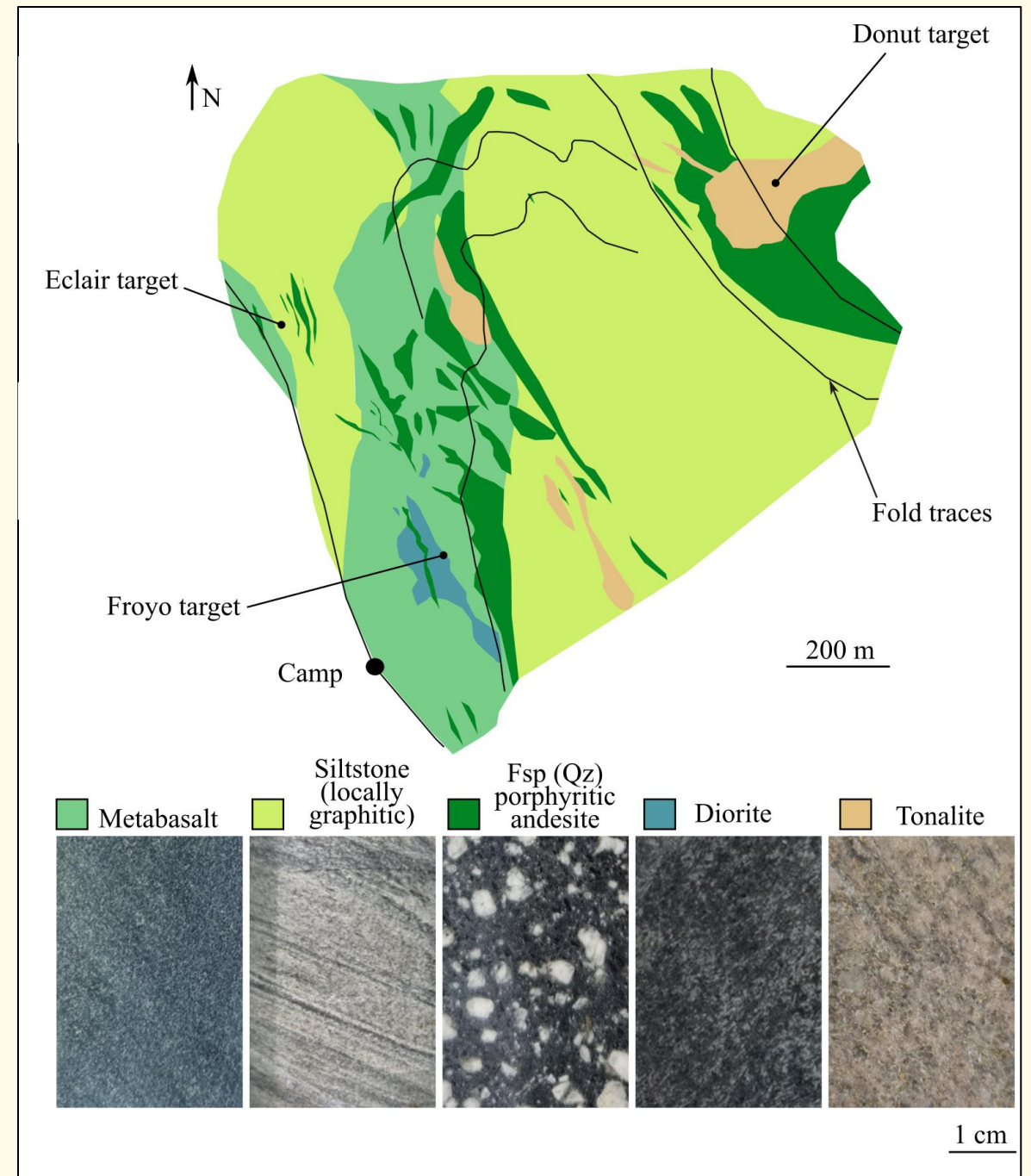


Upper Antino

- Main lithologies



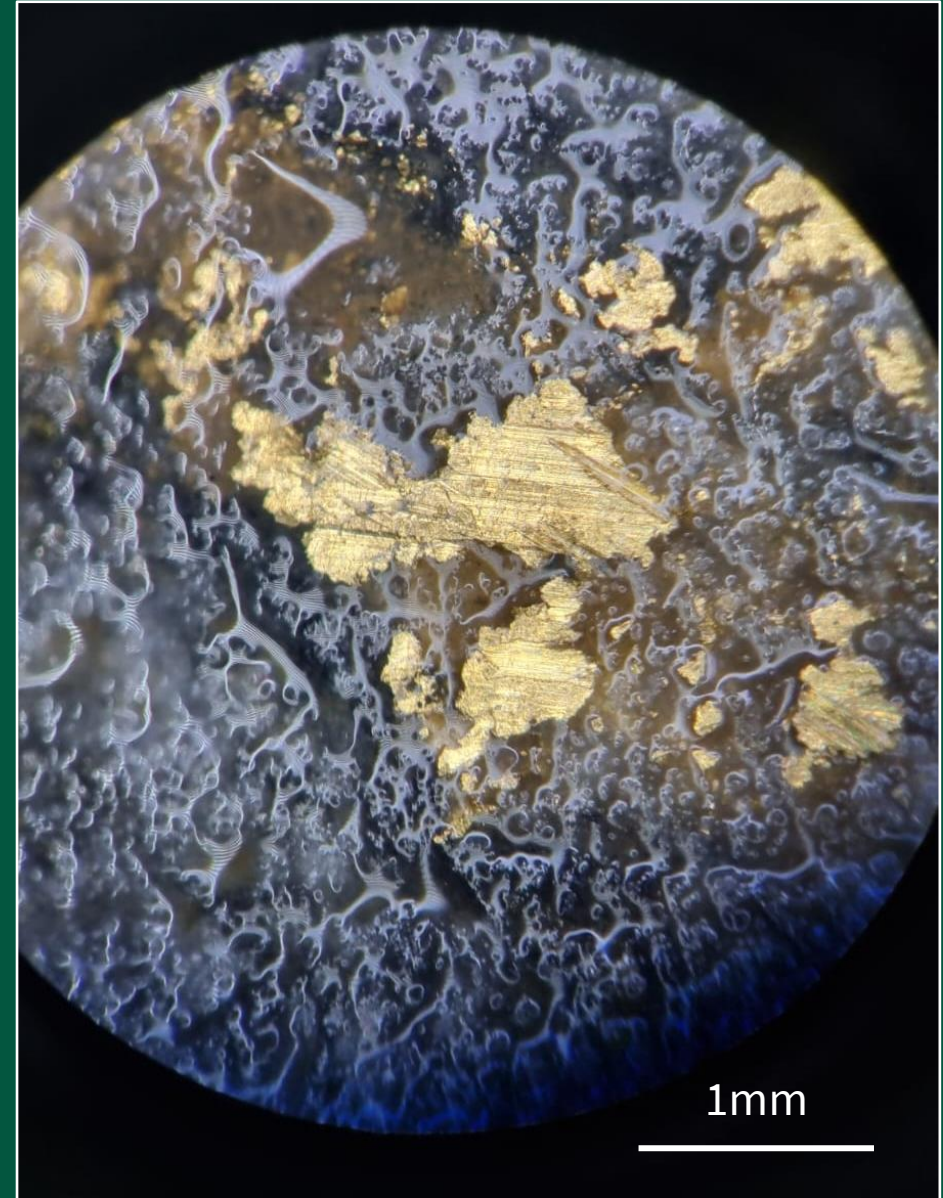
Amphibolite?



Upper Antino 2023- 2024 Drill Target



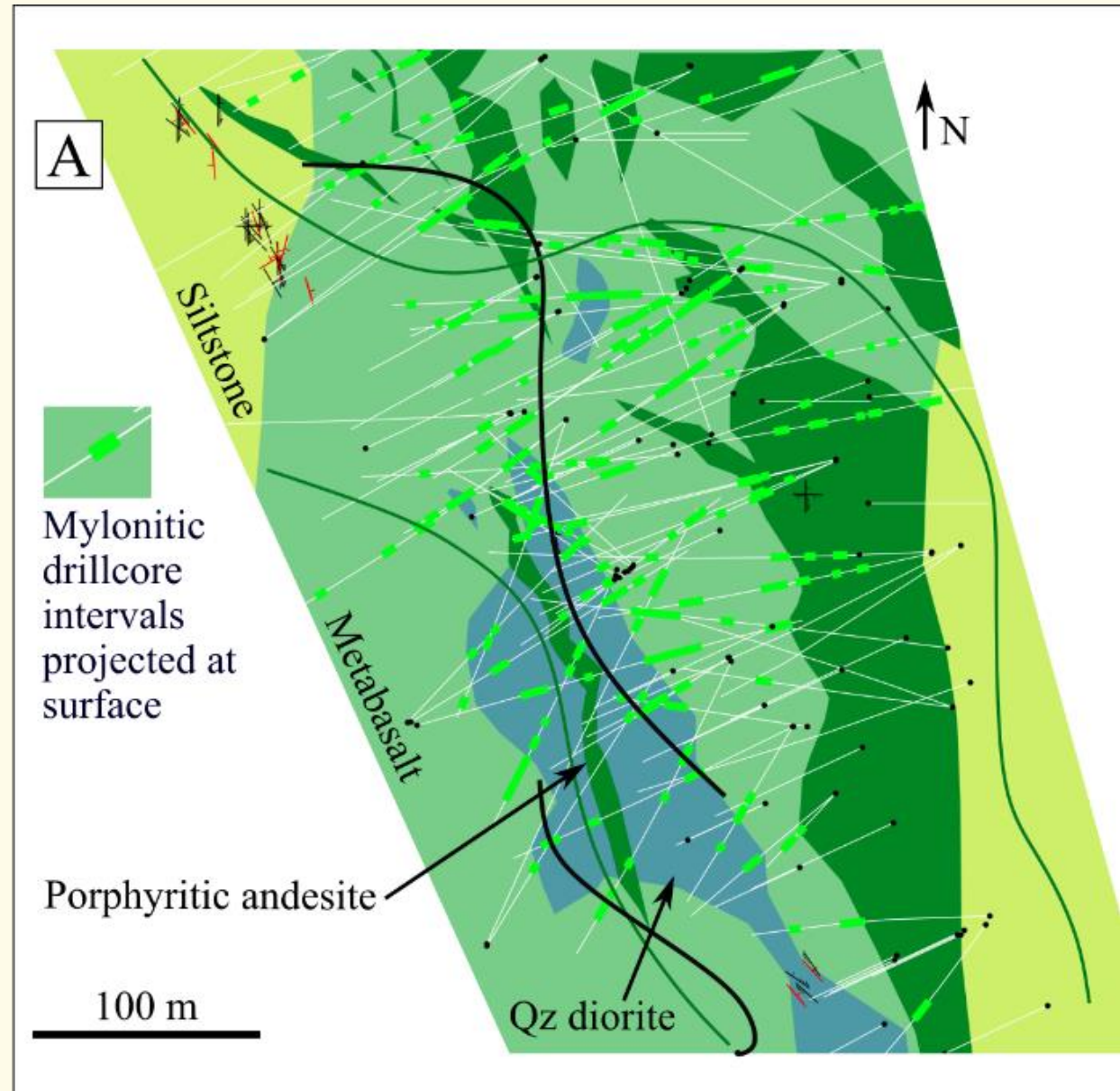
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Froyo-Ginger Drill Target

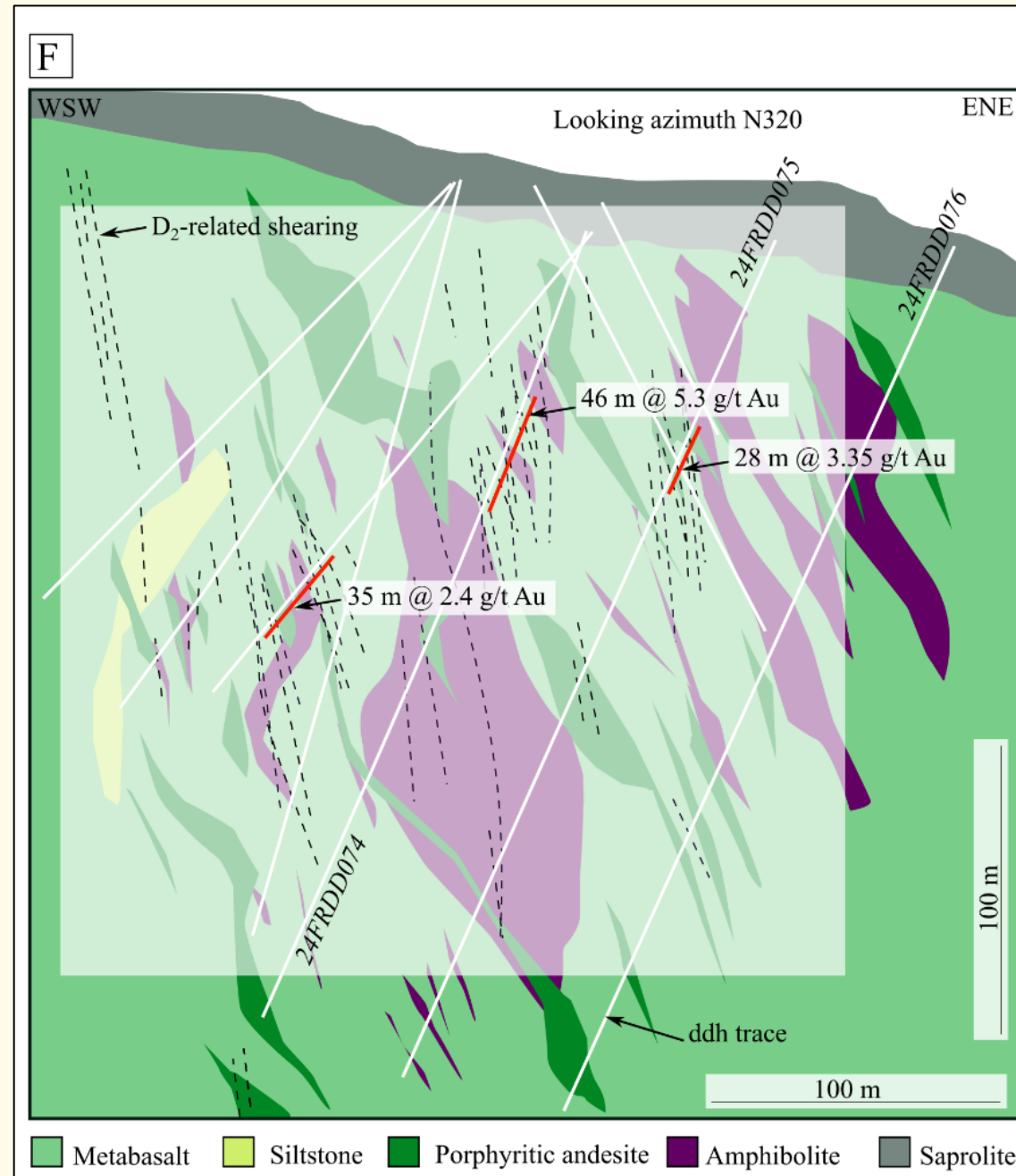
- > 200m wide ore zone
- Strain accumulation at litho contacts
- Shear zones reusing pre-existing fabric
- Porphyritic andesite targeted as preferential host for shear development (widest sz when contact porphyritic andesite with other litho)





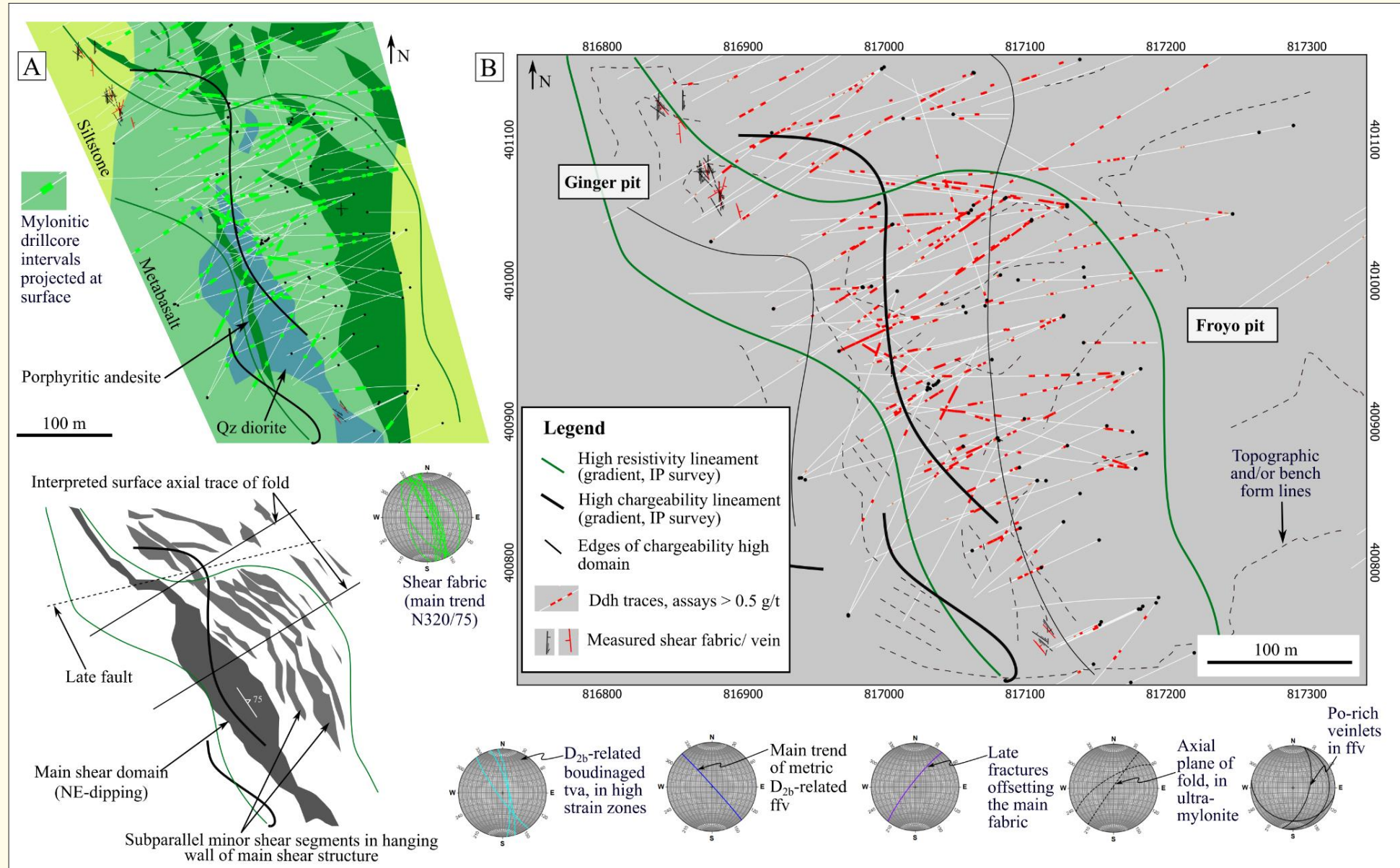
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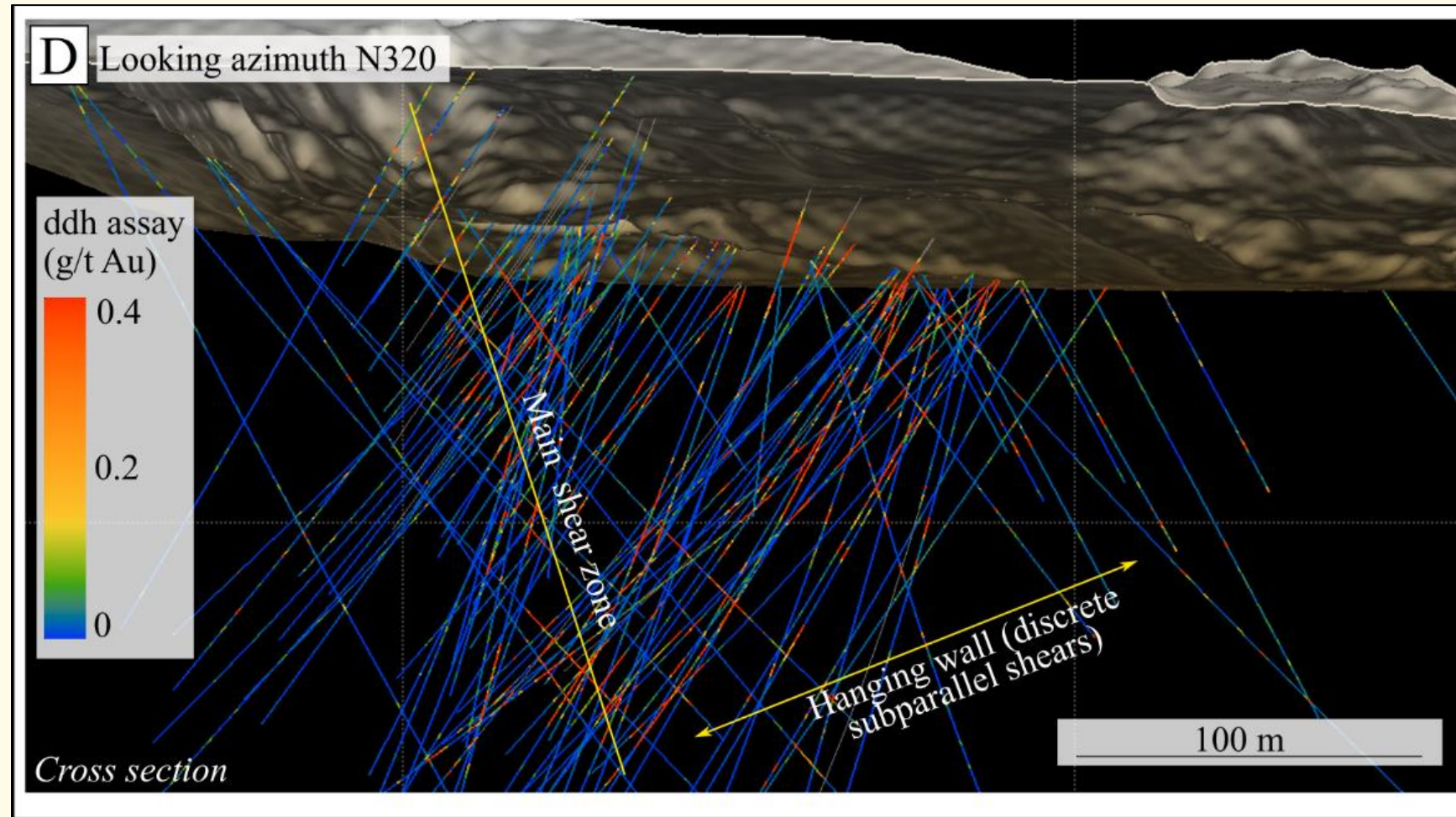


- 1 main shear with massive metric ffv
- And multiple subparallel shears to the east
- Fold structure with NE axial traces





- Interesting width:
38m, 45m or 26m long intervals
- > 200m wide ore zone

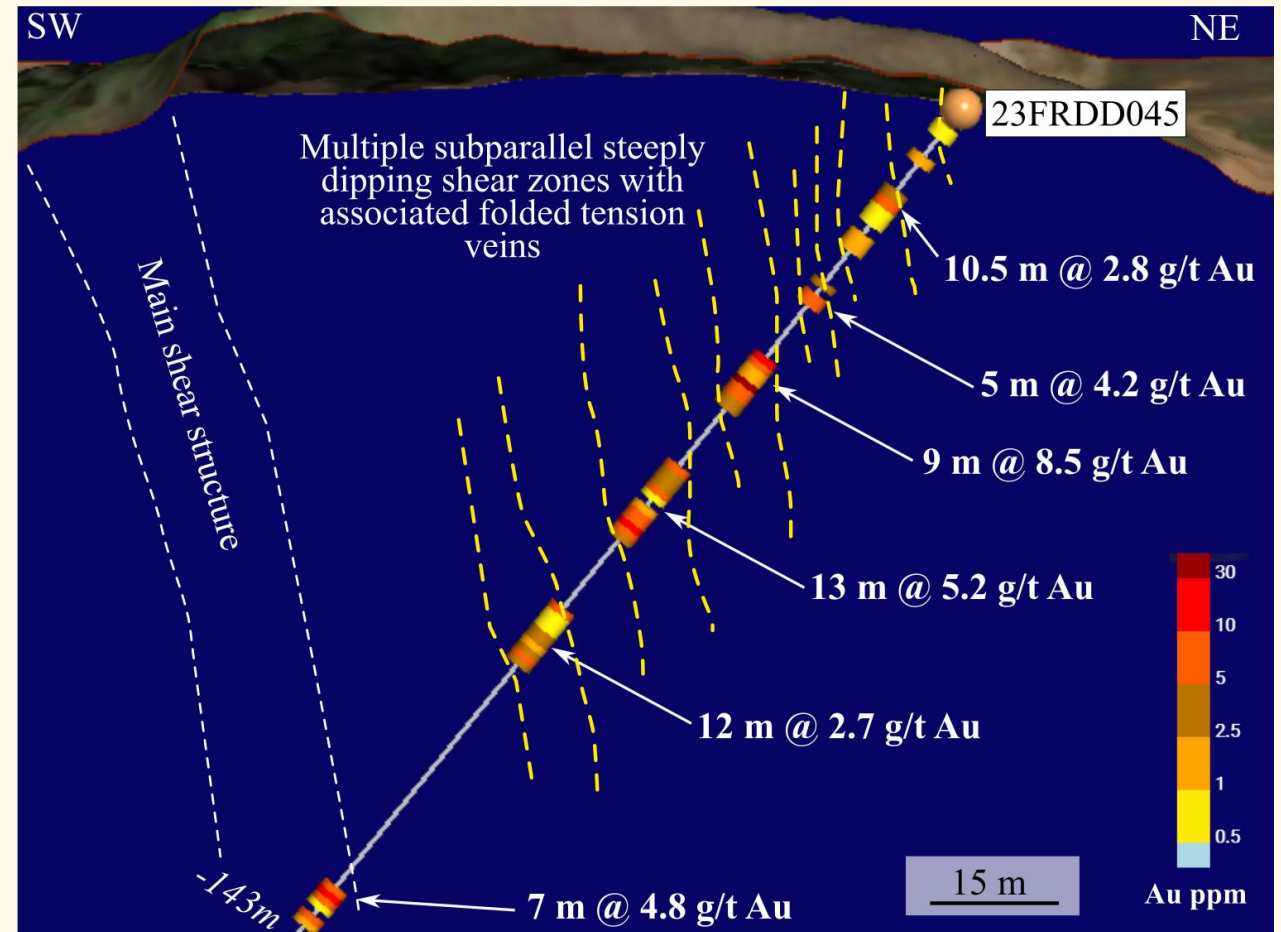




Froyo-Ginger Drill Target

- Interesting width: 38m, 45m or 26m long intervals
- > 200m wide ore zone
- Multiple ore zones: example hole FRDD45
- **Best Intervals Include:**

Hole ID	Intervals
Drillhole 24GG013	44.0 m @ 2.05 g/t Au
Drillhole 24FR74	46 m @ 5,31 g/t
Drillhole 24GG04	38 m @ 10.90 g/t Au
Drillhole 23FR030	26.00 m @ 6.35 g/t Au
Drillhole 23FR027	10.50 m @ 8.91 g/t Au from Froyo-Ginger Connector Zone
Drillhole 23FR025	45.79 m @ 4.06 g/t
Drillhole 23FR014	15.50 m @ 30.72 g/t including 5.80 m @ 54.61 g/t



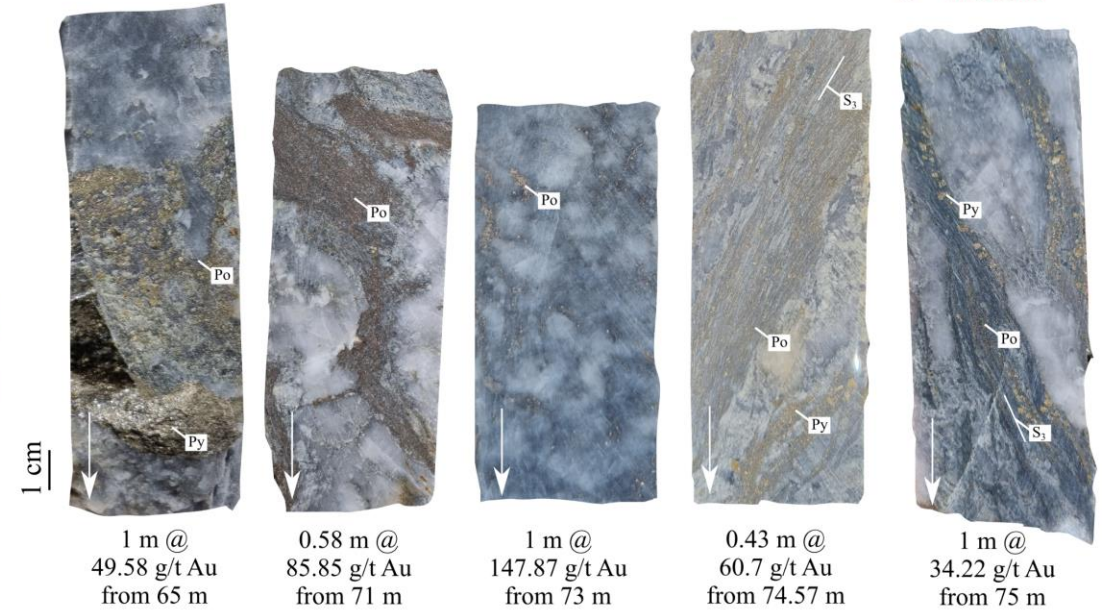


Froyo-Ginger Drill Target

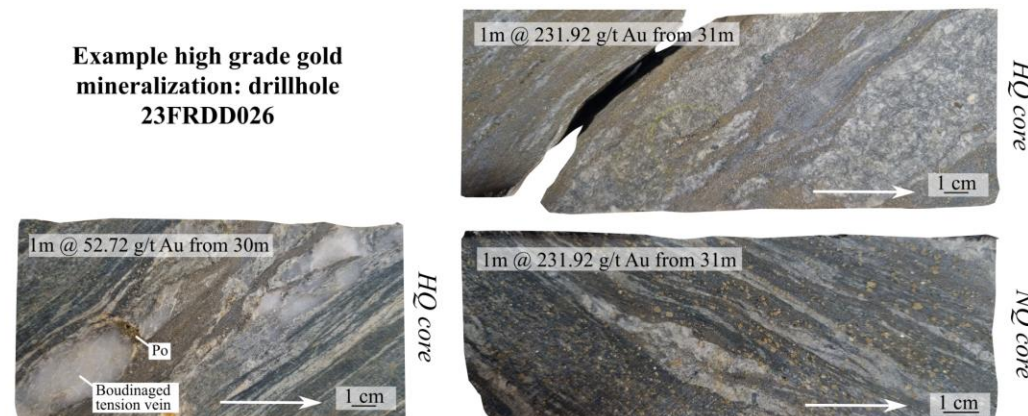
- Very High grade intervals
- **Highest grade in the NW extension : 1.0 m @ 434.98 g/t Au**

Example high grade gold mineralization: drillhole 23FRDD014

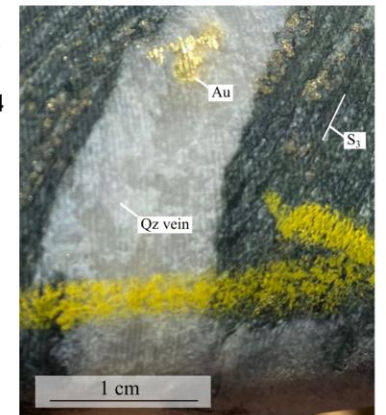
From (m)	To (m)	Assay (g/t Au)
63	64	1,19
64	65	47,3
65	66	49,58
66	67	15,45
67	68	2,372
68	69	3,97
69	70	3,97
70	71	27,6
71	72	64,84
72	73	9,73
73	74	147,87
74	75	37,83
75	76	34,22
76	77	7,9
77	78	14,45
78	79	23,42
79	80	0,321



Example high grade gold mineralization: drillhole 23FRDD026



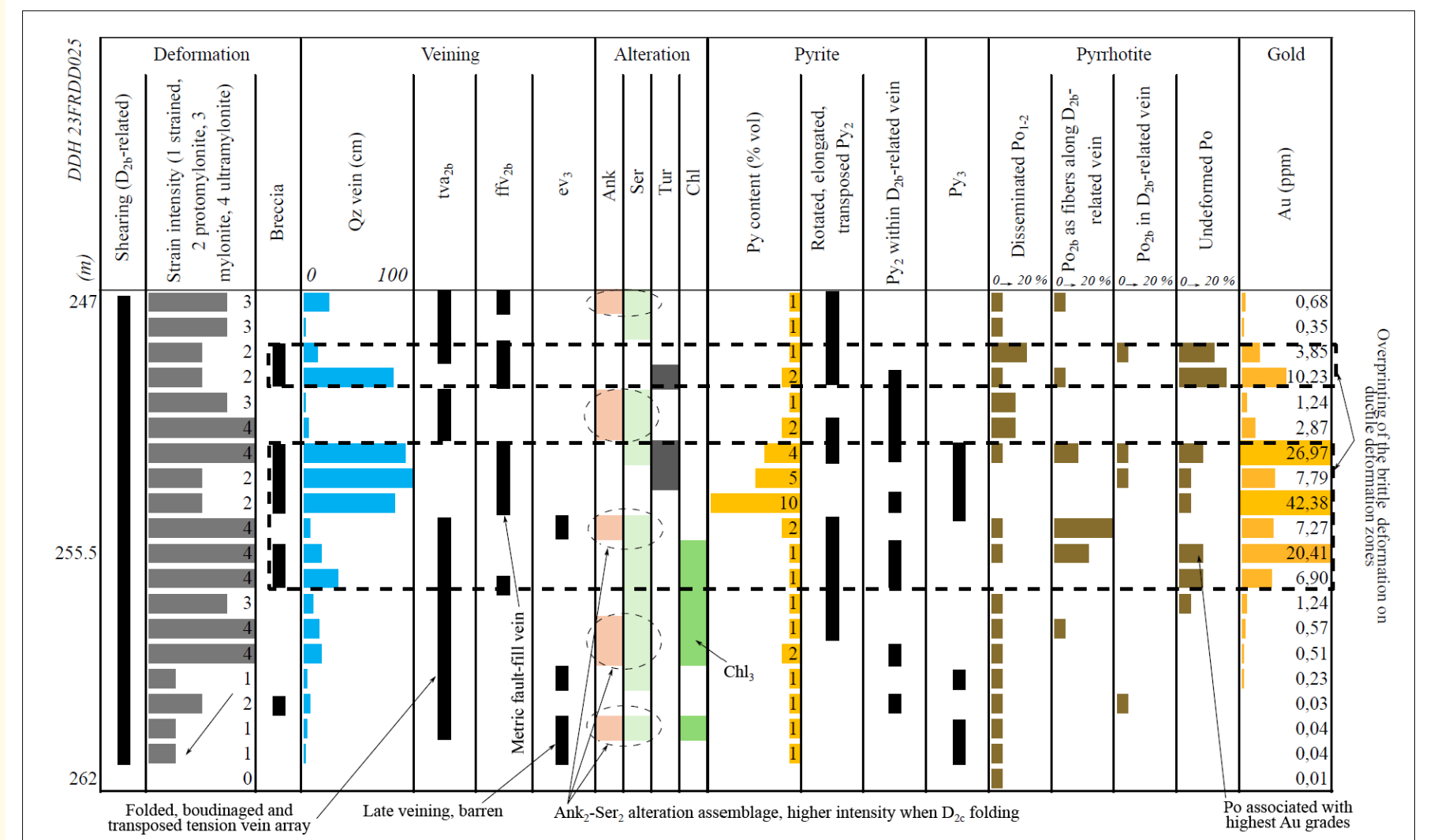
Example visible gold drillhole 23FRDD044





Example Relog

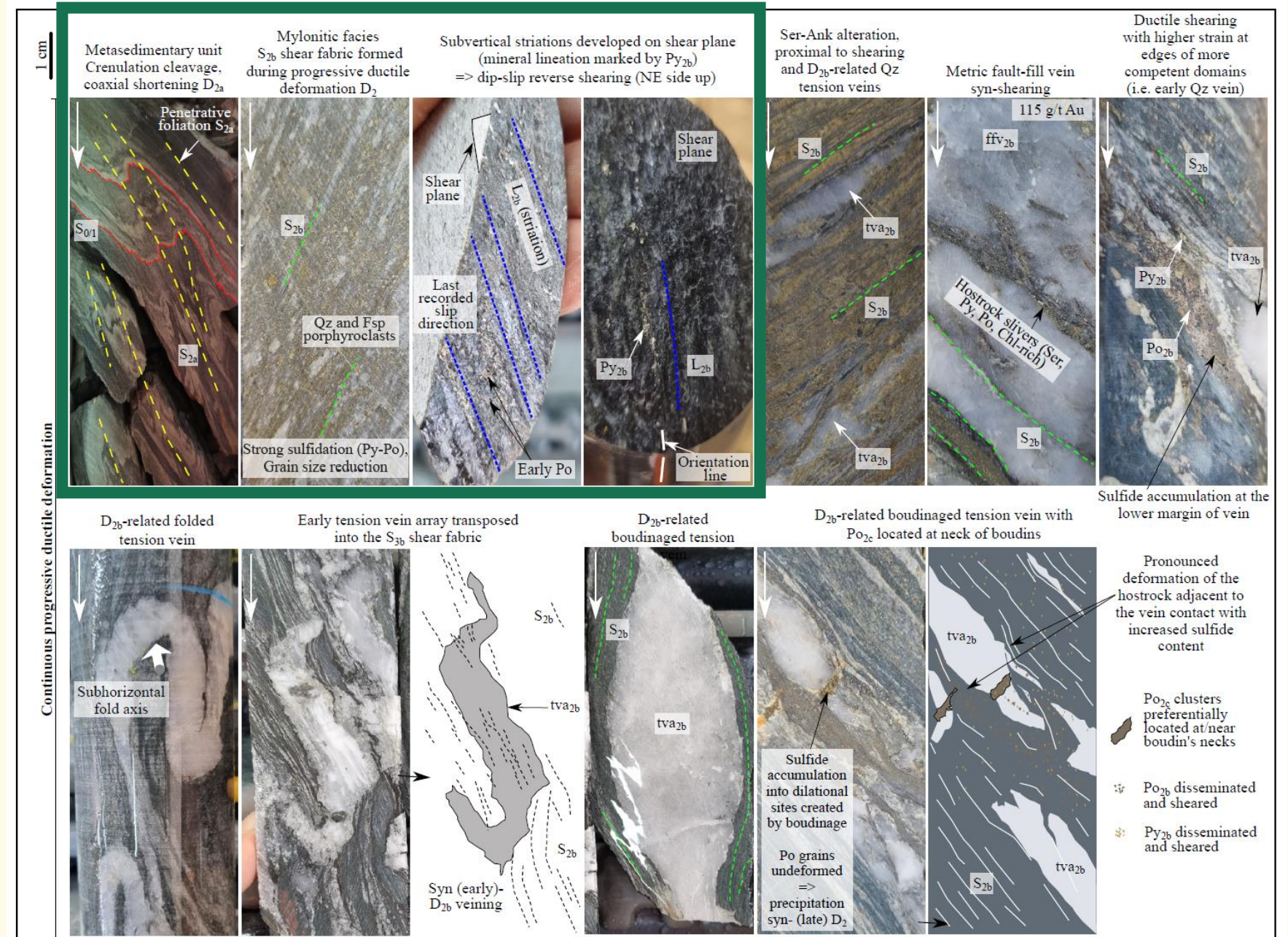
- Complex controls on gold content:
 - Importance of pre-existing features
 - Importance of folding
 - Importance of brittle over-printing





Main Facies

- Deformation stages and vein system



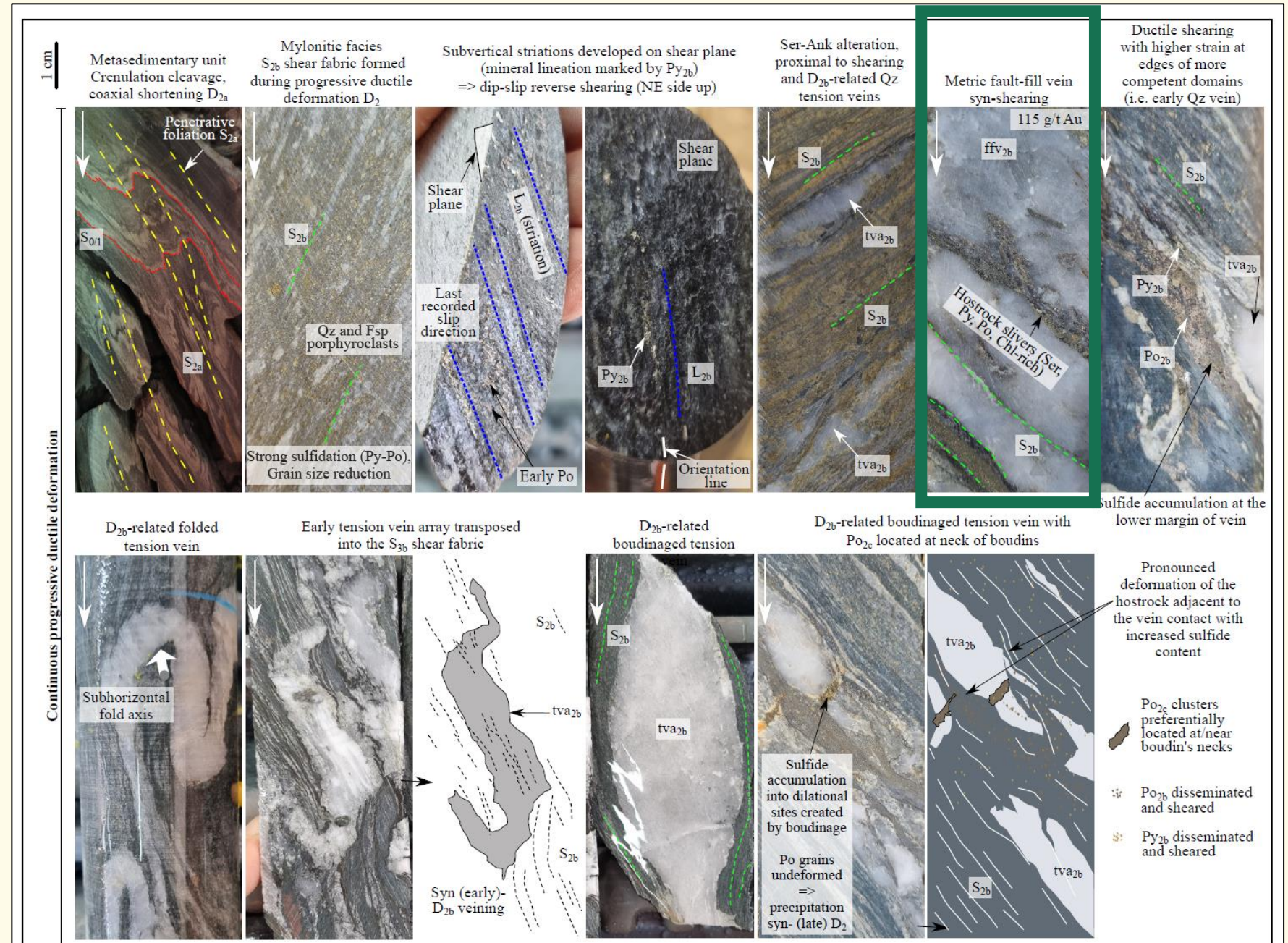


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- Deformation stages and vein system



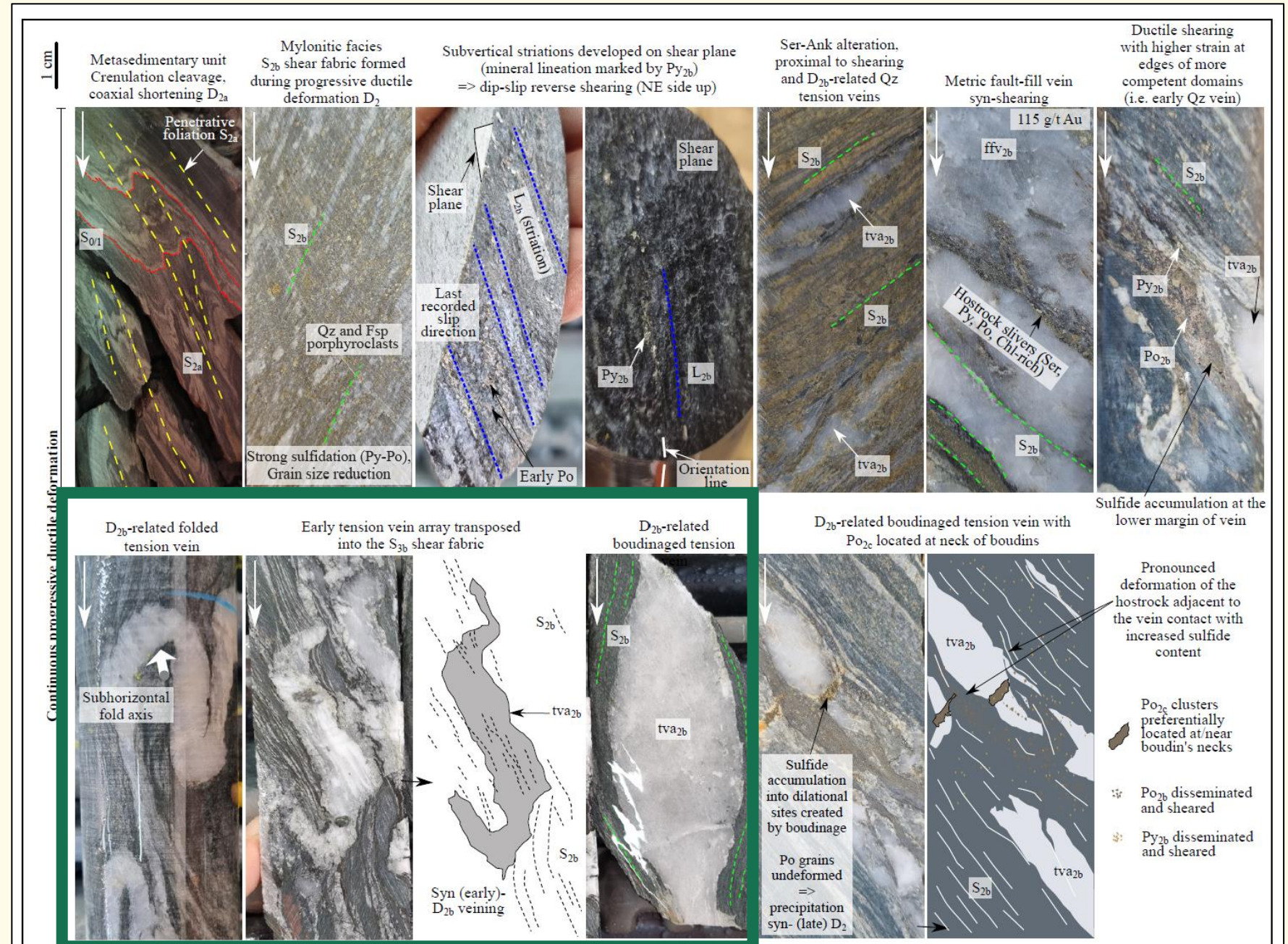
Froyo Pit (Reunion Gold 2007)





Main Facies

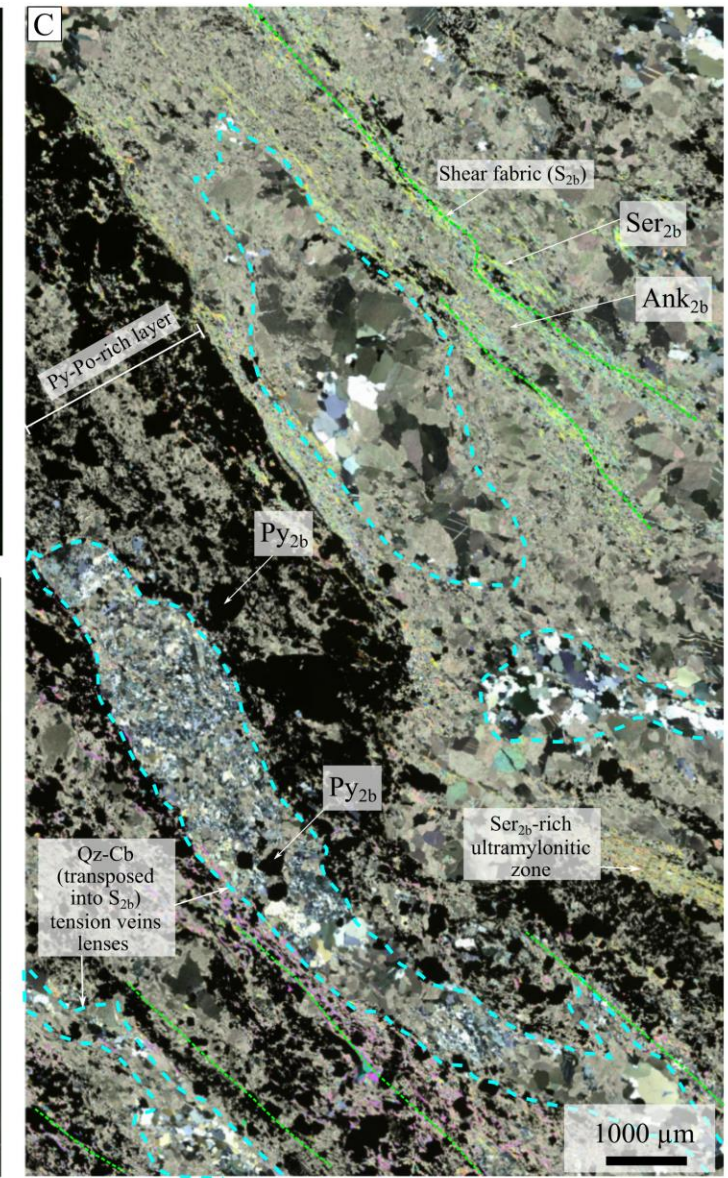
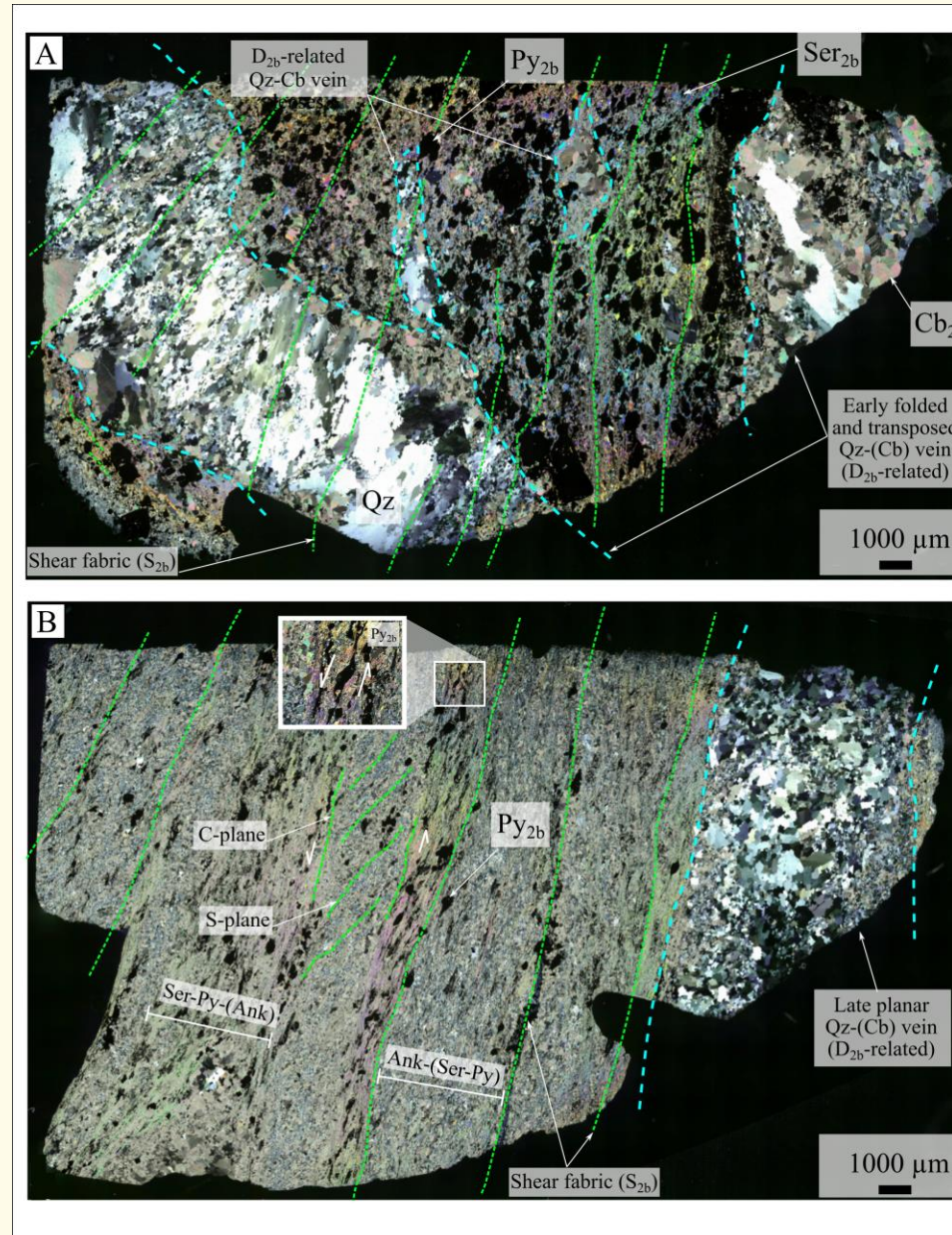
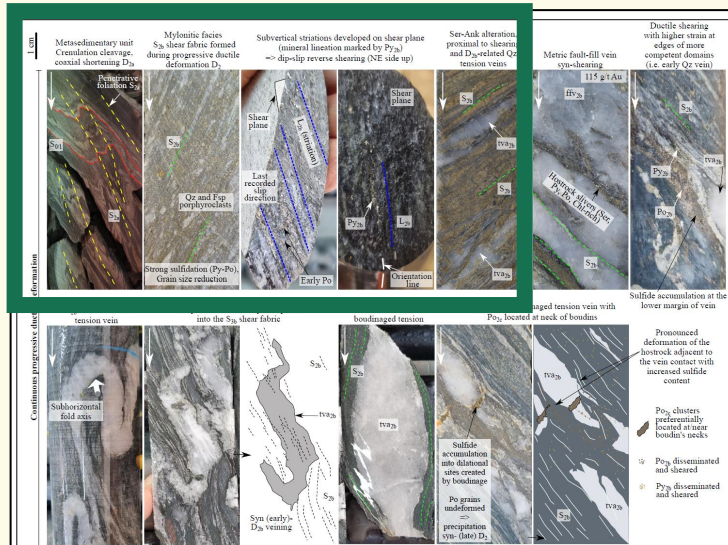
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Main Facies

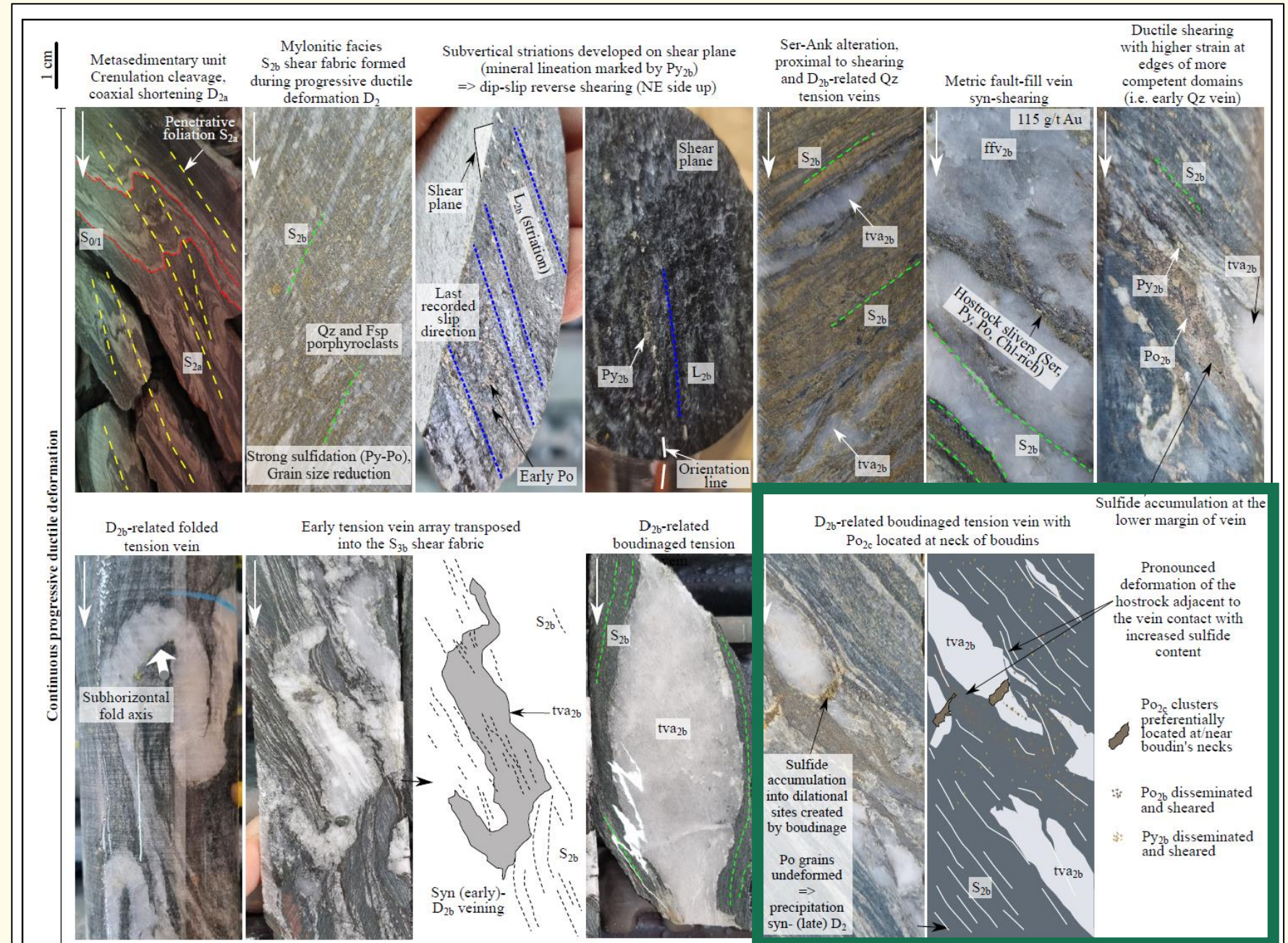
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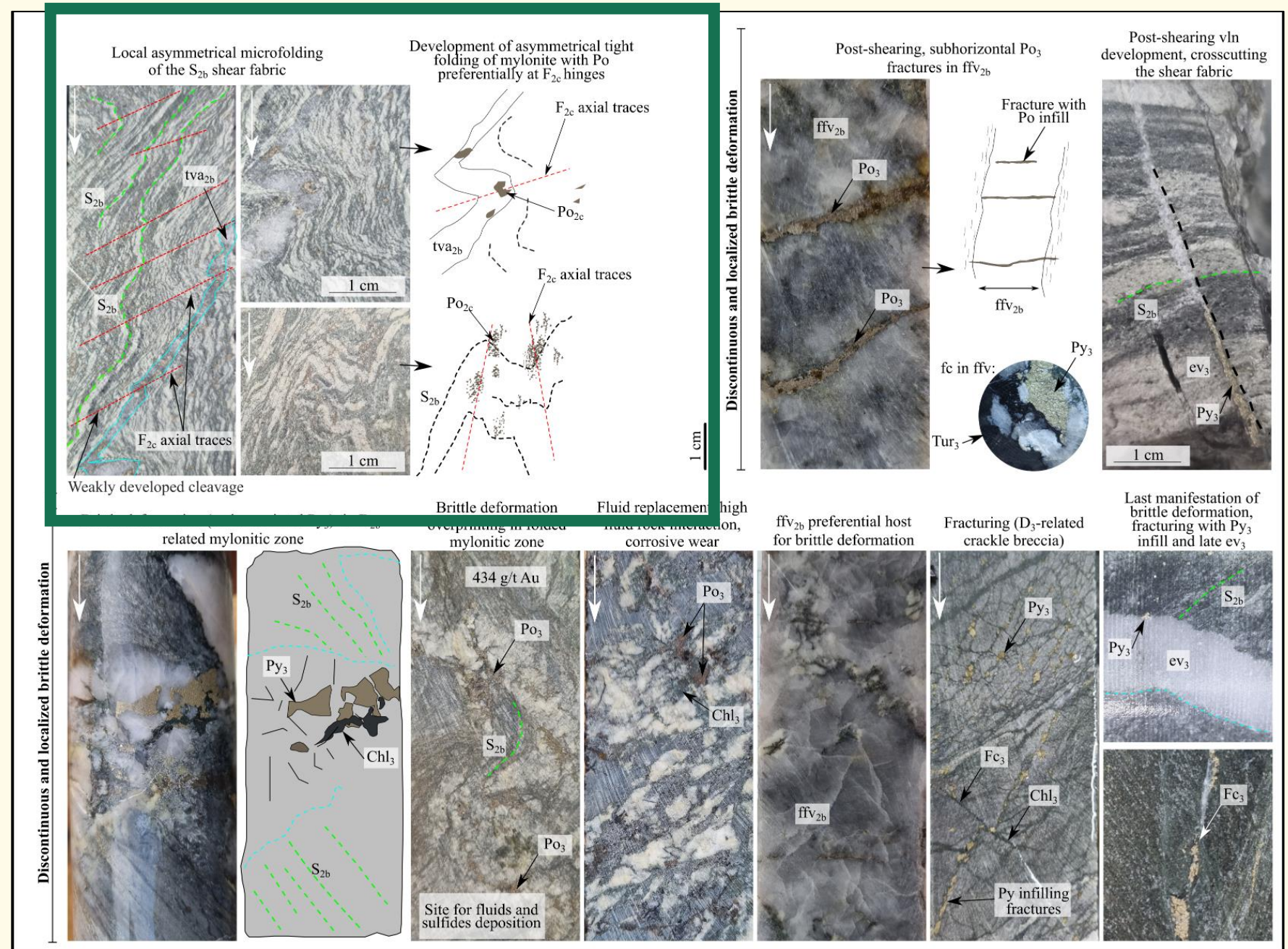
- Deformation stages and vein system
- During subsequent deformation the vein will fold/boudinage creating low stress sites that will focus the deposition of subsequent hydrothermal fluids





Main Facies

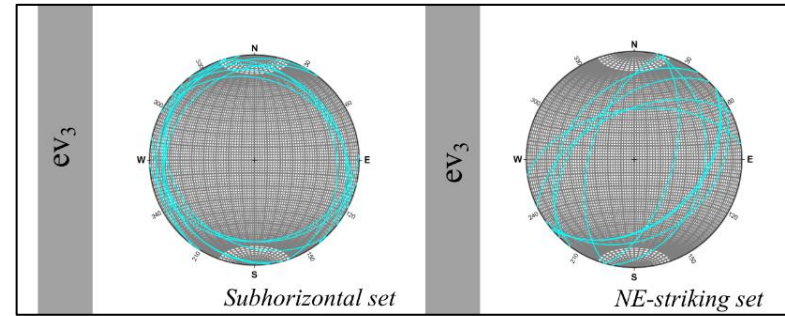
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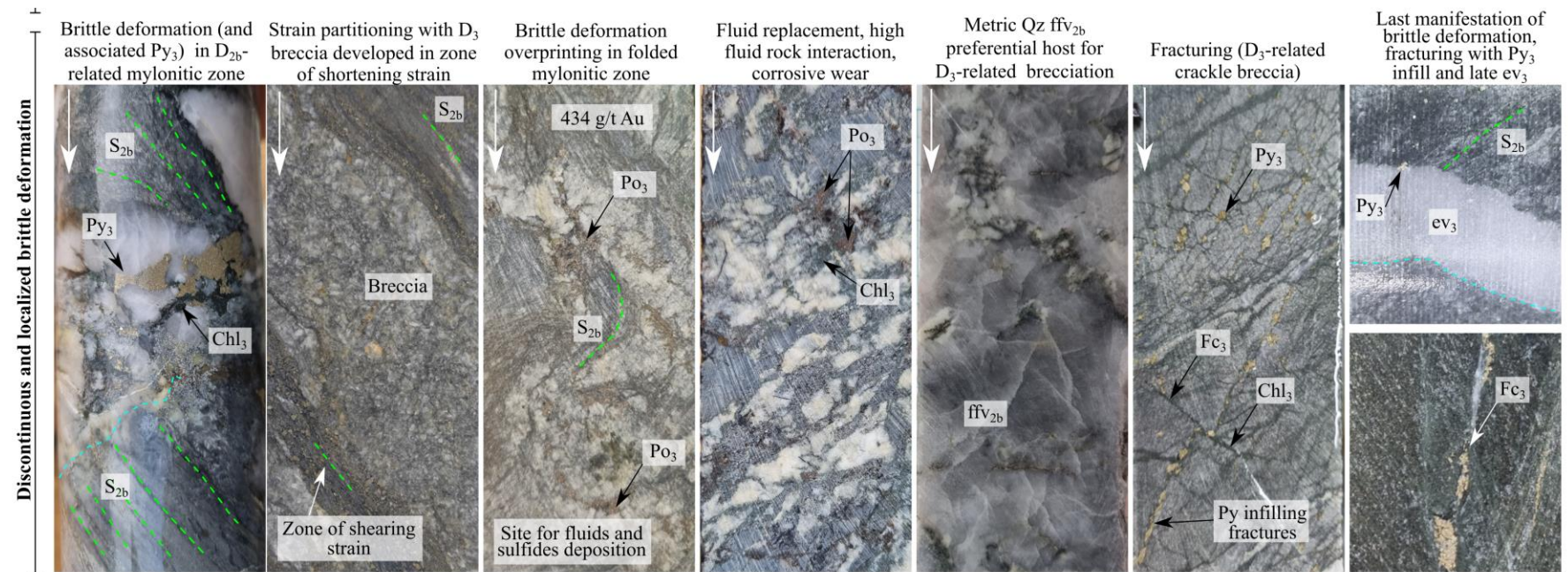
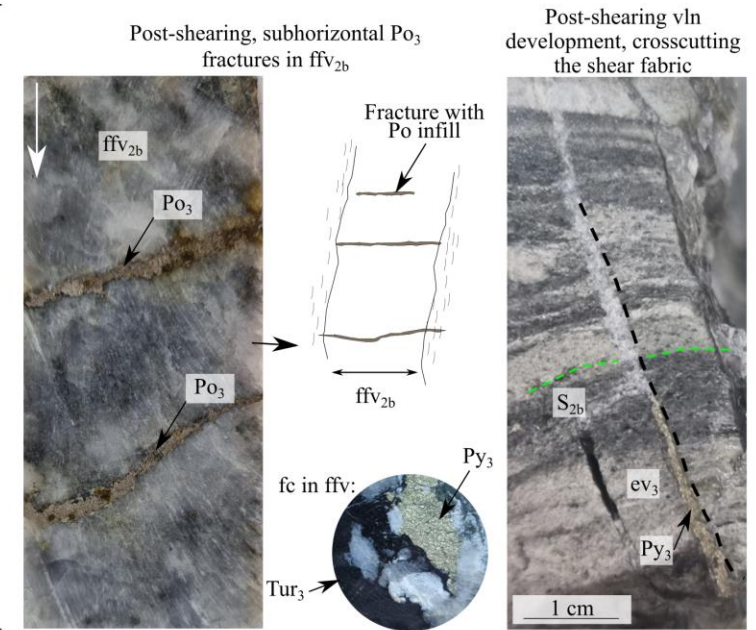
Main Facies

- Deformation stages and vein system
- Discontinuous and localized brittle def



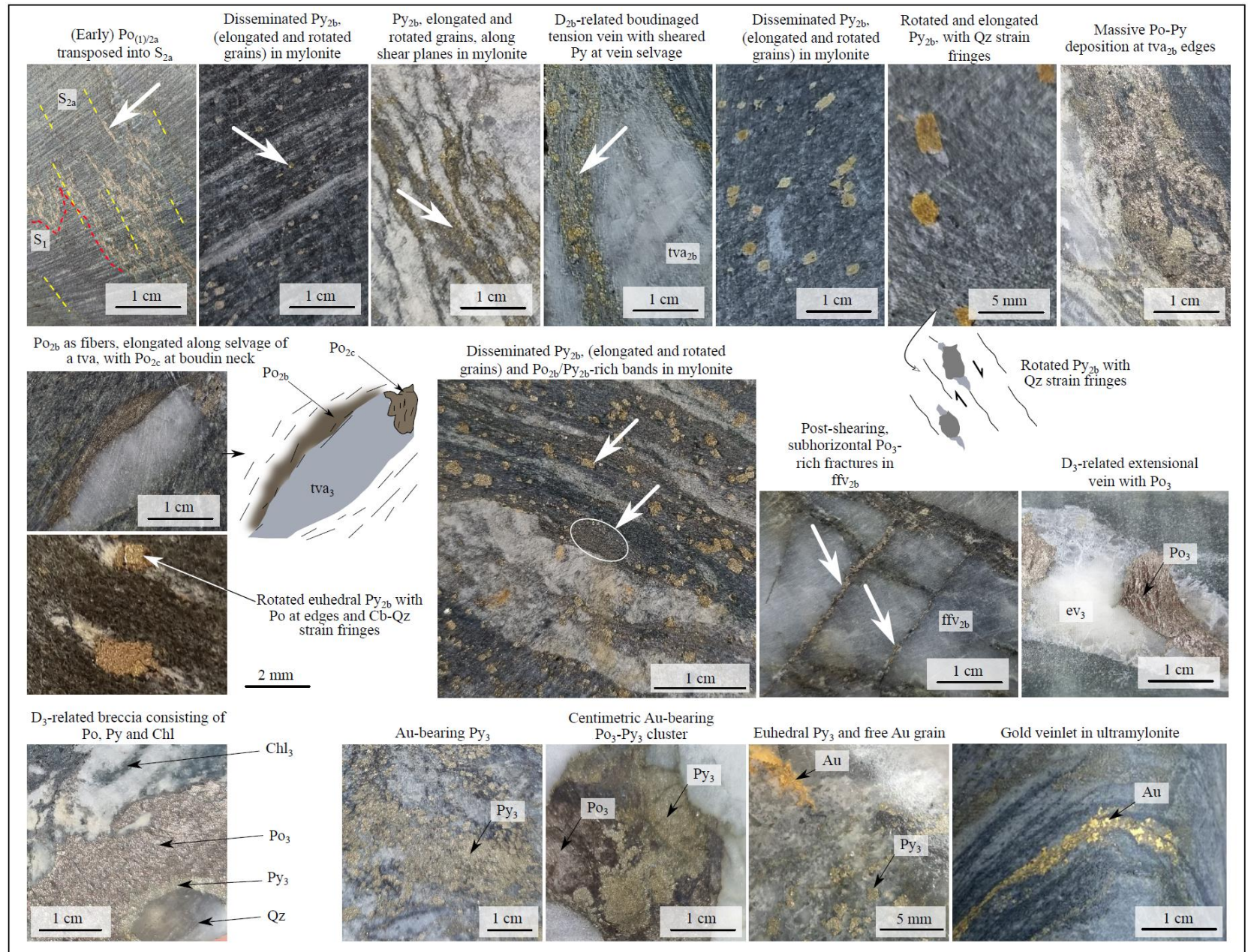
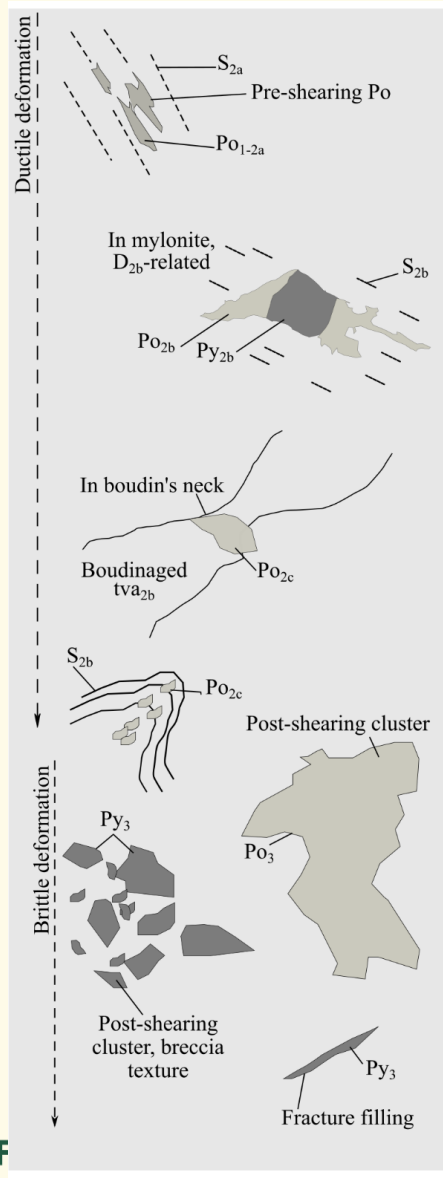
1 cm

Discontinuous and localized brittle deformation





Ore-related phases



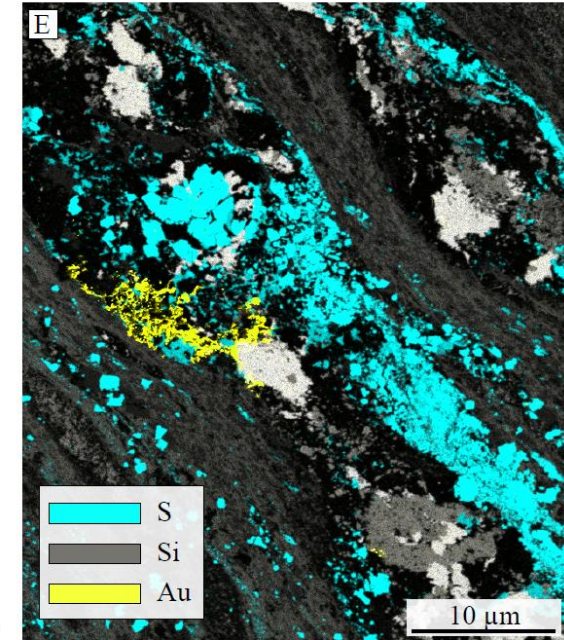
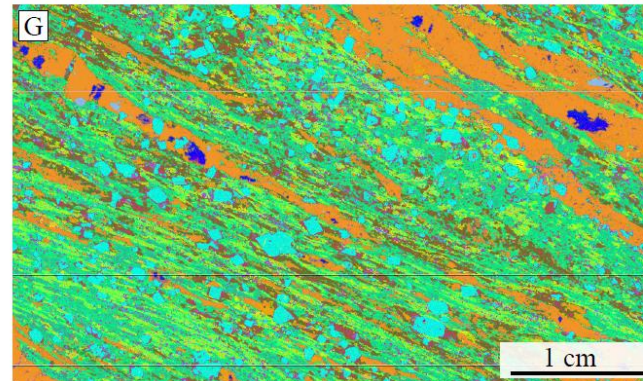
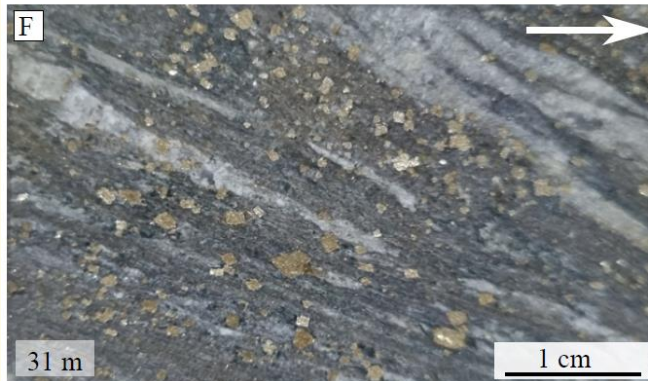
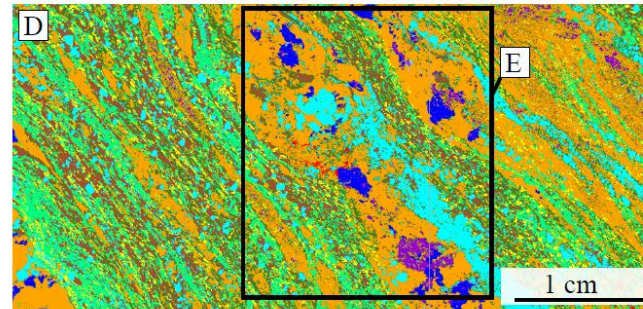
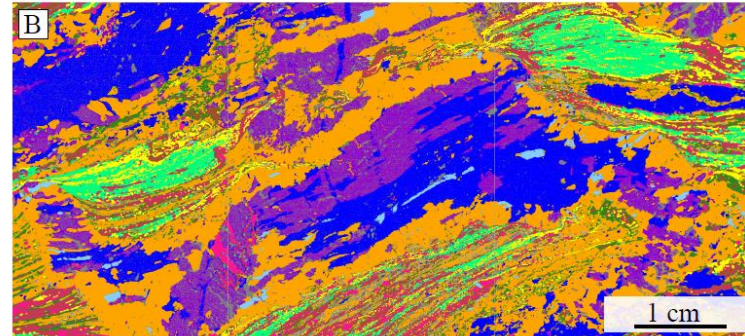


Main Facies

- Ore-related phases
- μ xrf drillcore scans

Legend (mineral maps):

Blue	Quartz
Orange	Tourmaline
Light Blue	Apatite
Yellow	Ilmenite
Green	Sericite
Purple	Albite
Dark Green	Ca-Amphibole
Cyan	Pyrite
Pink	Calcite
Brown	Ankerite
Dark Brown	Fe carbonate
Light Green	Chlorite
Magenta	Pyrrhotite
Red	Gold
Grey	Unknown/Low counts
Black	Shadows/Pores



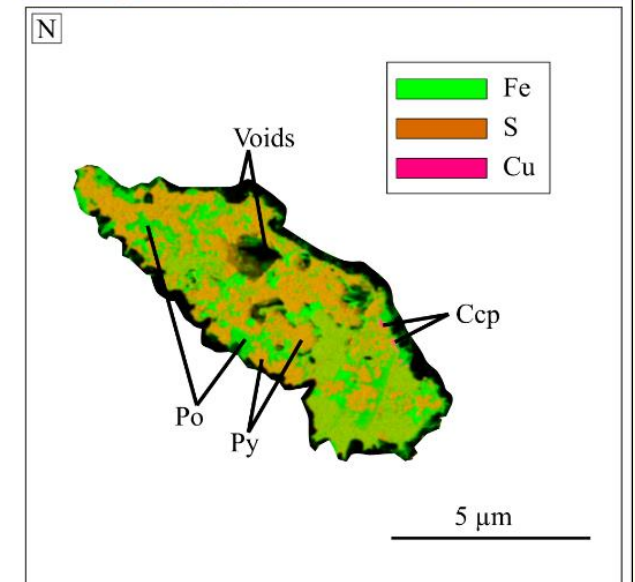
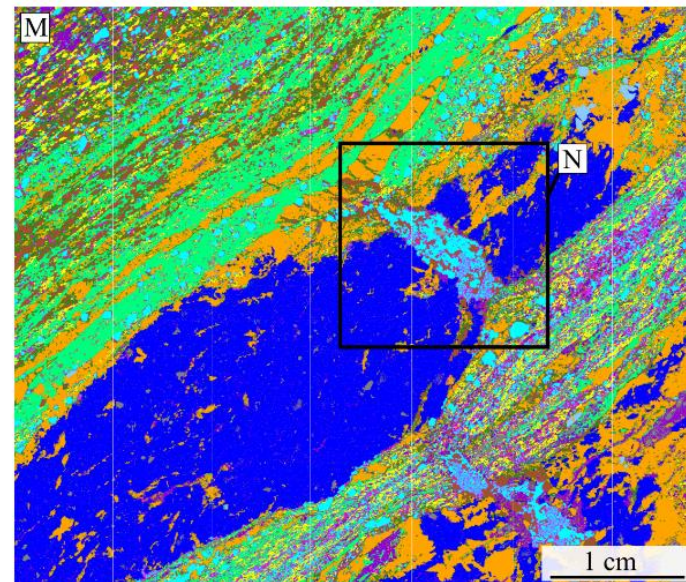
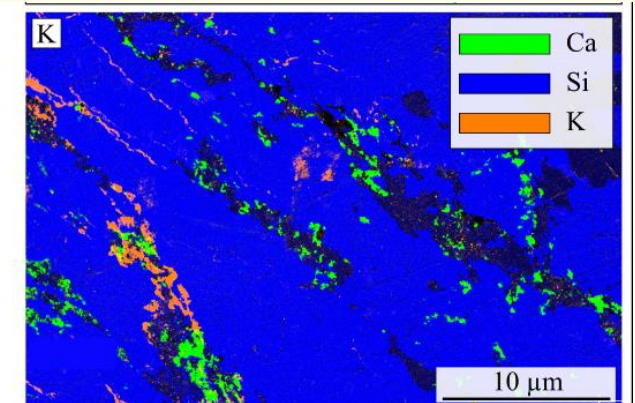
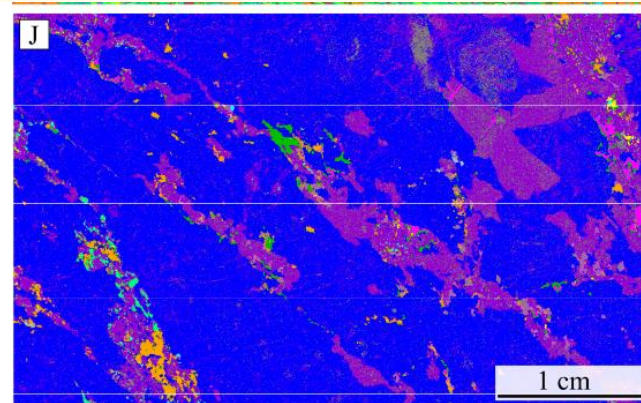
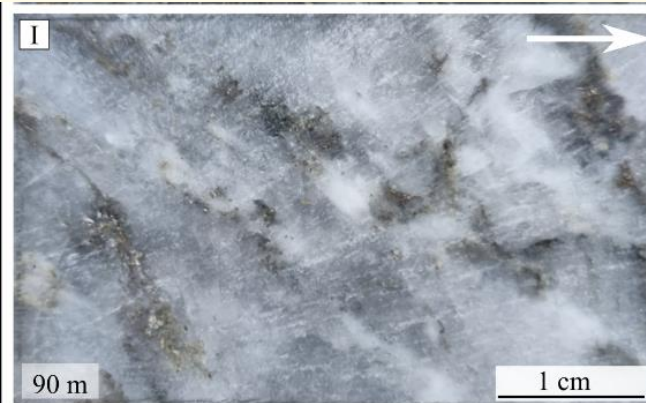


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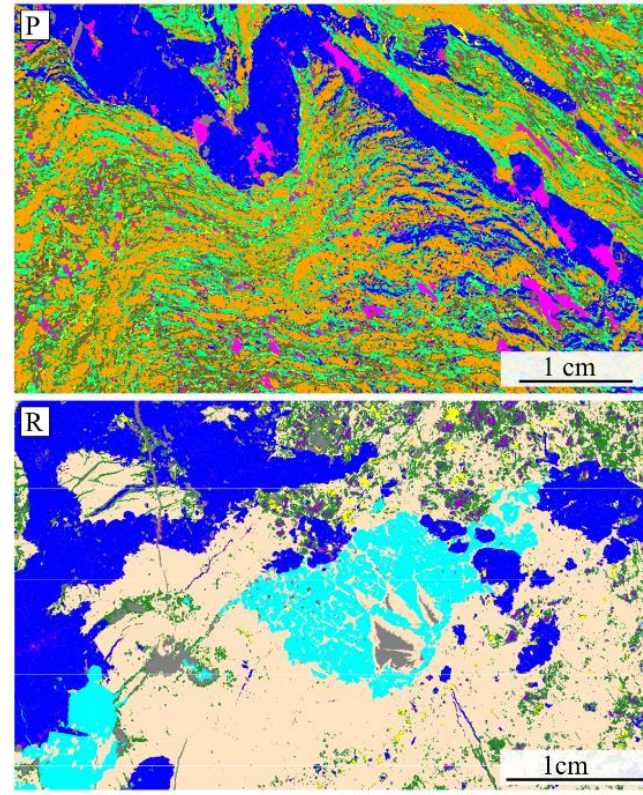
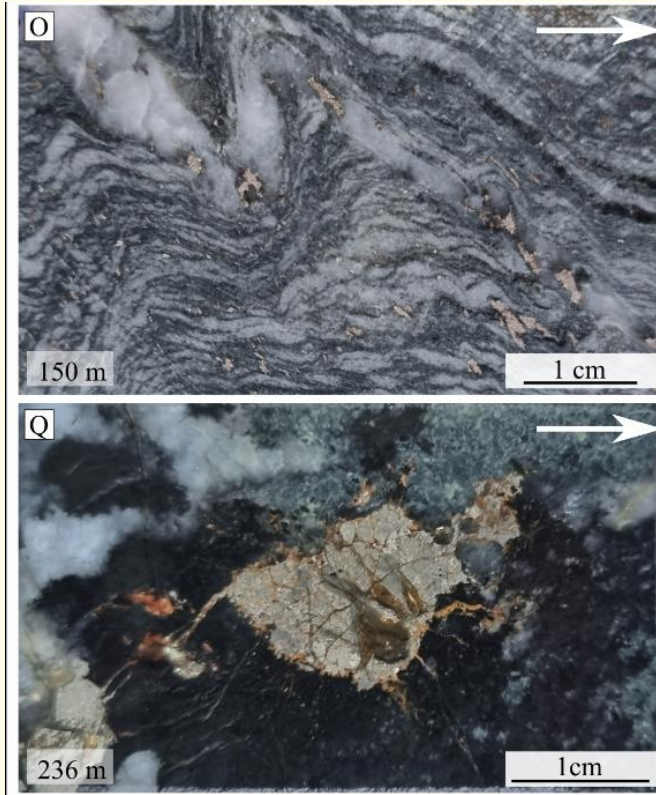


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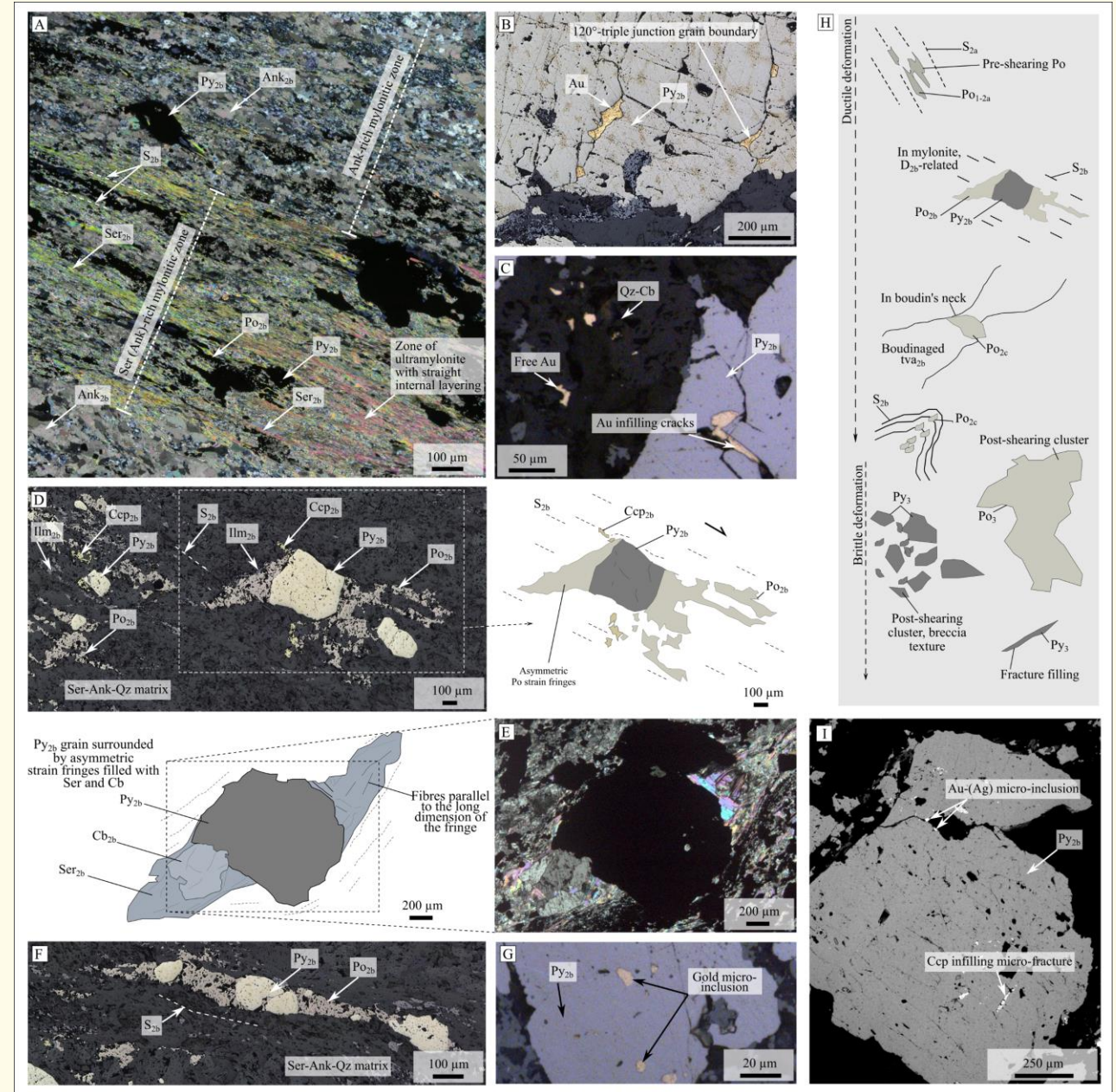
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Au Controls at the core-scale

- Gold occurs mainly as:
 1. free gold in quartz carbonate veins
 2. free gold within sericite-(ankerite)-rich mylonite, and as both
 3. micro-inclusions
 4. gold infill in microfractures/cracks/grain joints within sheared pyrite grains related to the local D2b deformation stage





		Protracted/progressive ductile deformation			Brittle deformation
		Continuous deformation			Localized deformation
Deformation stage (Antino gold camp)	D ₀ (pre-tectonic)	D ₁	<div>D_{2a}D_{2b}D_{2c}</div>		D ₃
Lithology	<div>Metabasalt (Chl, Ep)</div> <div>Amphibolite (Amp, Fsp, Chl, Ep)</div> <div>Porphyritic andesite (phenocrysts Fsp, Qz, groundmass Amp, Chl, Fsp, Qz)</div> <div>Metasedimentary unit</div> <div>Siltstone (Cb, Qz, Fsp) locally silicified</div> <div>Sandstone</div> <div>Graphite-rich siltstone</div> <div>Intrusive rocks</div> <div>Qz diorite (Qz, Chl, Mag, Amp)</div> <div>Tonalite (least altered contains Ab, Ser, Qz, Fsp, Cb), displays xenoliths of metavolcanics</div>				
Compressional folding	<div>F2aF2c</div>				
Deformation	<div>Plan view</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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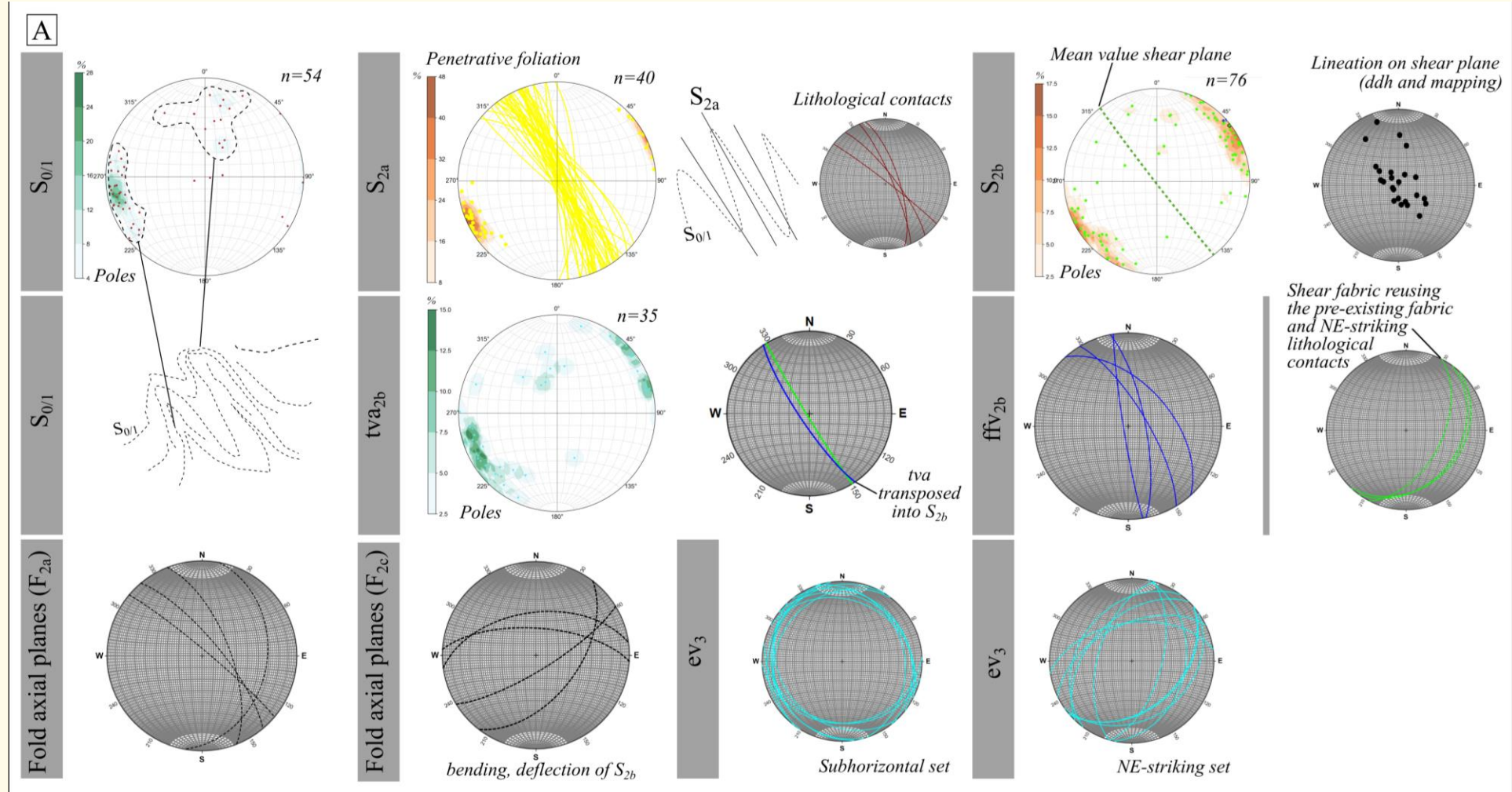


		Protracted/progressive ductile deformation			Brittle deformation	
		Continuous deformation			Localized deformation	
Deformation stage (Antino gold camp)	D ₀ (pre-tectonic)	D ₁	D _{2a}	D _{2b}	D _{2c}	D ₃
Metamorphism	Greenschist facies (Chl, Ep) to locally amphibolite					Amphibolite?
Vein system						
Qz-Ab tva	Early tva					Late-shearing tva
ffv _{2b}						
transposition of tva						
boudinage of tva						
fc ₃						---
ev ₃ subhorizontal						
ev ₃ NE-striking						---
breccia, corrosive wear						
fracture in ffv						
Vein composition	Qz, Ab, Cb, Ank, Chl, Tur					Qz, Cb
Hydrothermal alteration	Ep, (Ser, Cb)					Tur, Fe-Cb, Si, Ab, Cb, Chl
	Ser (Ank, Chl) proximal to shear					/
	Ank at selvages of tva, Tur					
	Ank, Si					
Ore related phases	Py _{0?}	Po _{1/2a} , transposed into S _{2a}	Sheared, rotated, elongated Po _{2b} , Py _{2b} , Ccp _{2b} , Sp _{2b}	Po-Py _{2c} in low stress sites (in boudin neck and folded mylonite)	Po ₃ as cluster, Py ₃ (Py ₃ after Po ₃ ?)	
Gold events	First gold endowment			Remobilization and/or new gold input	Remobilization and/or new gold input	



Froyo-Ginger Target Summary

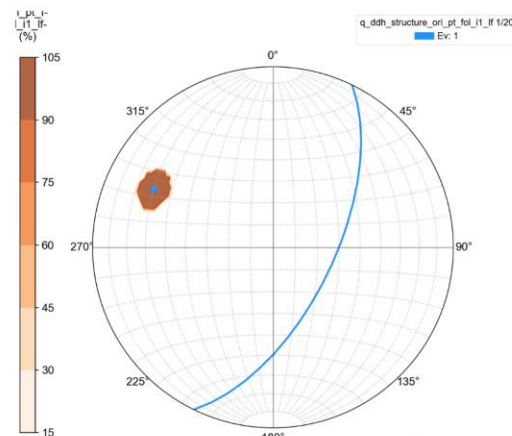
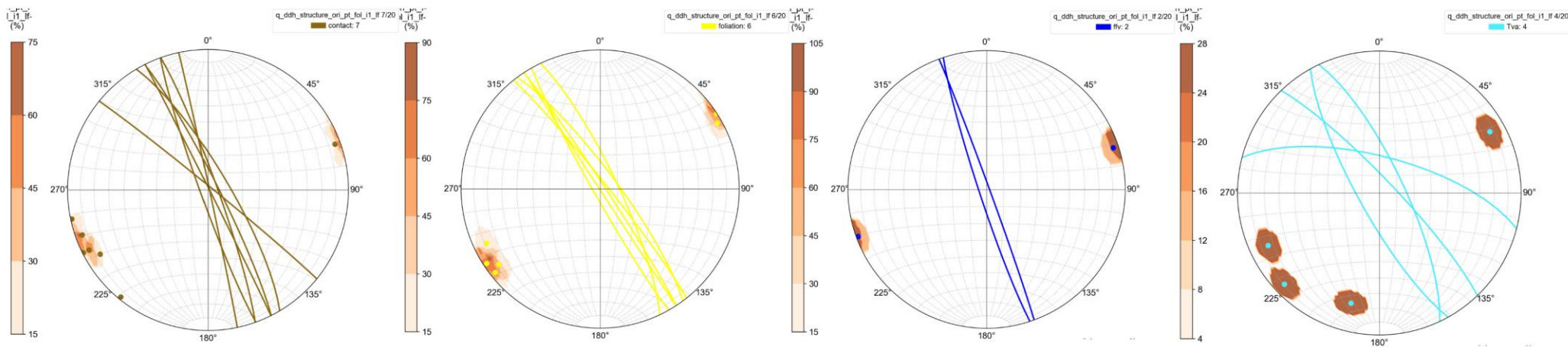
- Oriented Core
- Overview



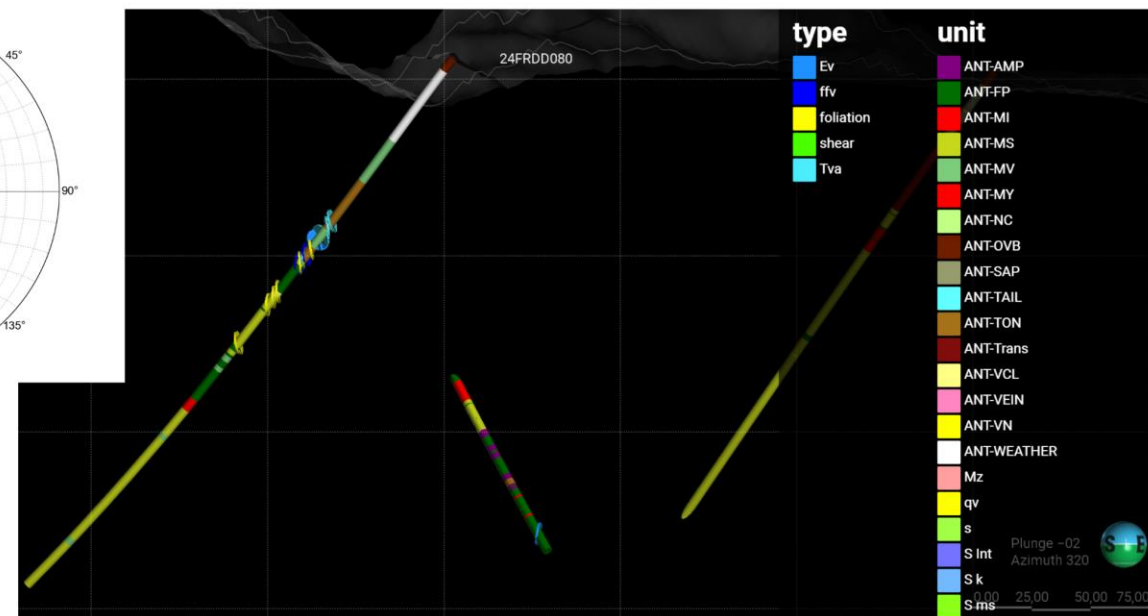


- Example
- Hole 80

24FRDD080



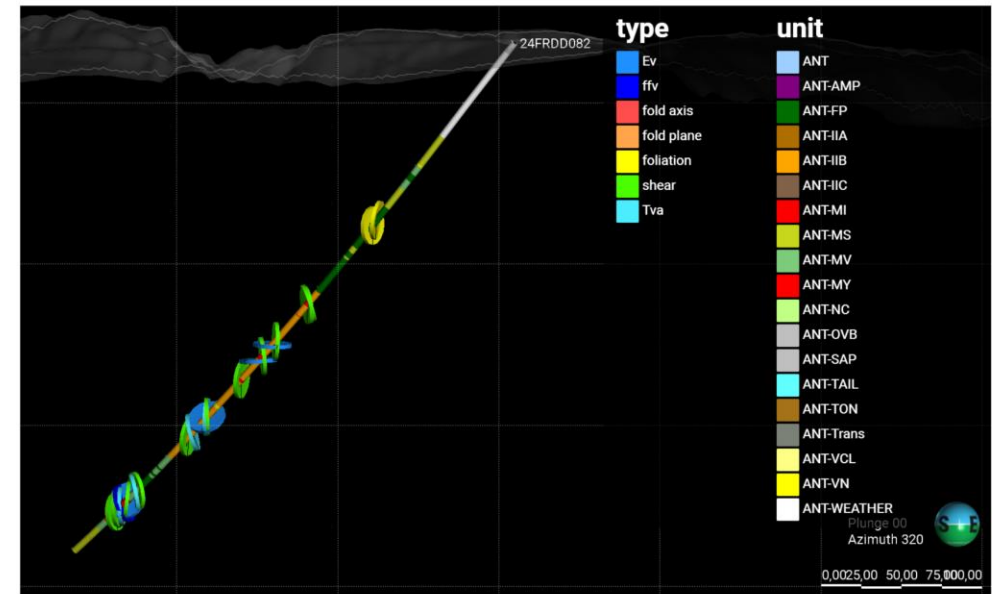
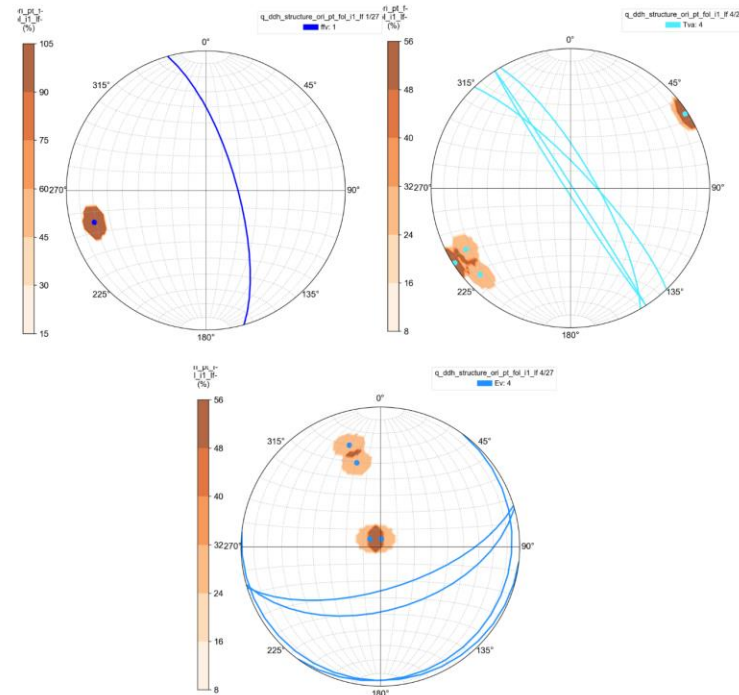
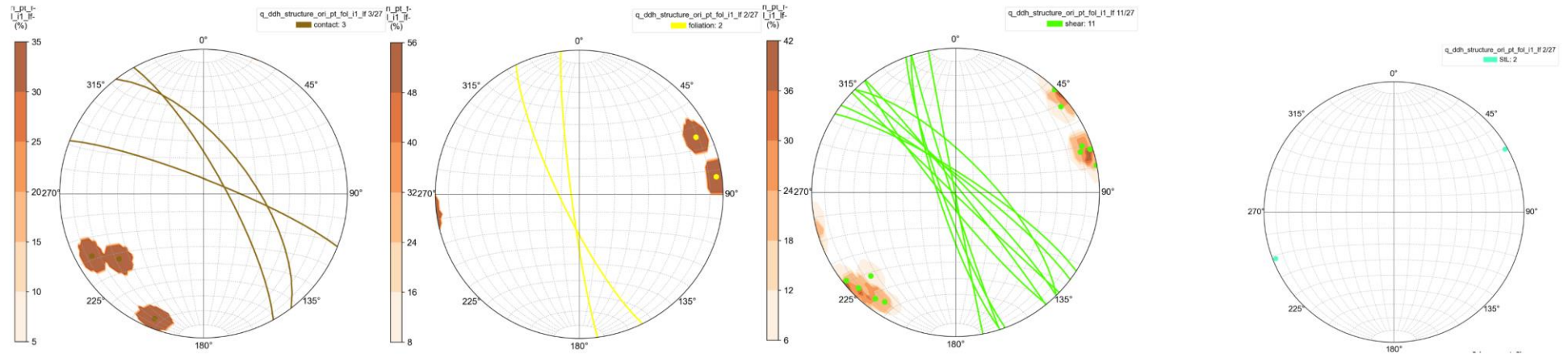
*Vertical
lineation on
shear plane*





- Example
- Hole 82

24FRDD082





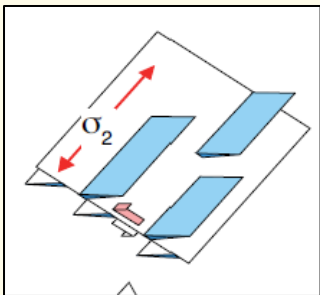
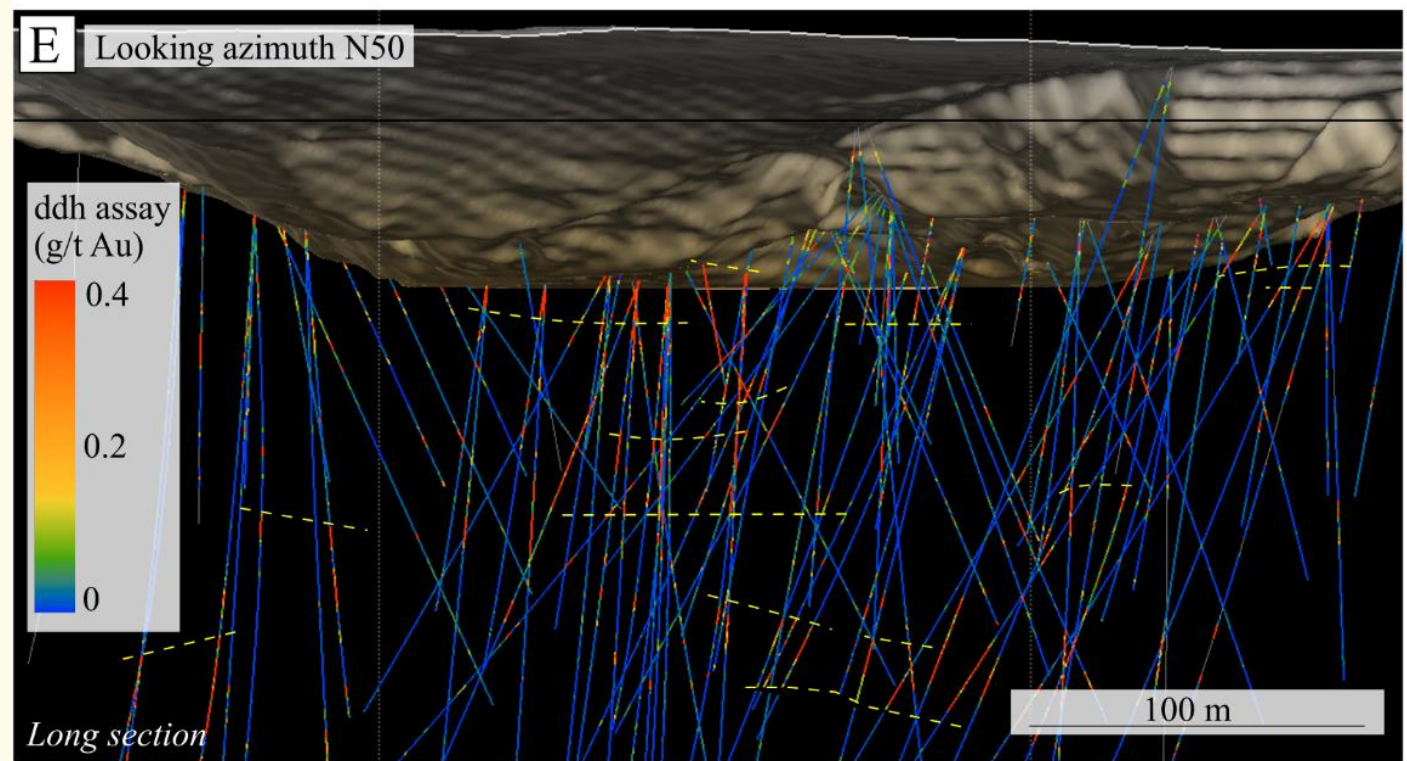
-
- B** Looking azimuth N320
- Ev
ffv
shear
Tva
- Hanging wall (discrete subparallel shears)
- 23FRDD002, 23FRDD004, 23FRDD005, 23FRDD006, 23FRDD007, 23FRDD008, 23FRDD009, 23FRDD010, 23FRDD011, 23FRDD012, 23FRDD013, 23FRDD014, 23FRDD015, 23FRDD016, 23FRDD017, 23FRDD018, 23FRDD019, 23FRDD020, 23FRDD021, 23FRDD022, 23FRDD023, 23FRDD024, 23FRDD025, 23FRDD026, 23FRDD027, 23FRDD028, 23FRDD029, 23FRDD030, 23FRDD031, 23FRDD032, 23FRDD033, 23FRDD034, 23FRDD035, 23FRDD036, 23FRDD037, 23FRDD038, 23FRDD039, 23FRDD040, 23FRDD041, 23FRDD042, 23FRDD043, 23FRDD044, 23FRDD045, 23FRDD046, 23FRDD047, 23FRDD048, 23FRDD049, 23FRDD050, 23FRDD051, 23FRDD052, 23FRDD053, 23FRDD054, 23FRDD055, 23FRDD056, 23FRDD057, 23FRDD058, 23FRDD059, 23FRDD060, 23FRDD061, 23FRDD062, 23FRDD063, 23FRDD064, 23FRDD065, 23FRDD066, 23FRDD067, 23FRDD068, 23FRDD069, 23FRDD070, 23FRDD071, 23FRDD072, 23FRDD073, 23FRDD074, 23FRDD075, 23FRDD076, 23FRDD077, 23FRDD078, 23FRDD079, 23FRDD080, 23FRDD081, 23FRDD082, 23FRDD083, 23FRDD084, 23FRDD085, 23FRDD086, 23FRDD087, 23FRDD088, 23FRDD089, 23FRDD090, 23FRDD091, 23FRDD092, 23FRDD093, 23FRDD094, 23FRDD095, 23FRDD096, 23FRDD097, 23FRDD098, 23FRDD099, 23FRDD100
- 24FRDD068, 24FRDD066, 24FRDD066B
- Subhorizontal ev
- N320/85
- N40/70
- Main shear zone
- NNE-striking shear fabric
- D_{2b} -related ffv
- ddh assay > 0.5 g/t Au
- 100 m
- NE-striking ev_3 $n=97$
- Gently dipping late tva and ev_3
- tva transposed into S_{2b}



Froyo-Ginger Drill Target

- Subvertical slip direction identified at Froyo-Ginger
- Long axis of the ore shoot is perpendicular to the slip direction observed in the shear plane so subhorizontal ore shoot for dip-slip reverse shearing (= σ_2 , fluid flow vector)

Ore shoot are subhorizontal and repeated at depth. The drilling should target same depth of identified ore shoot, along strike



Cox (2020)

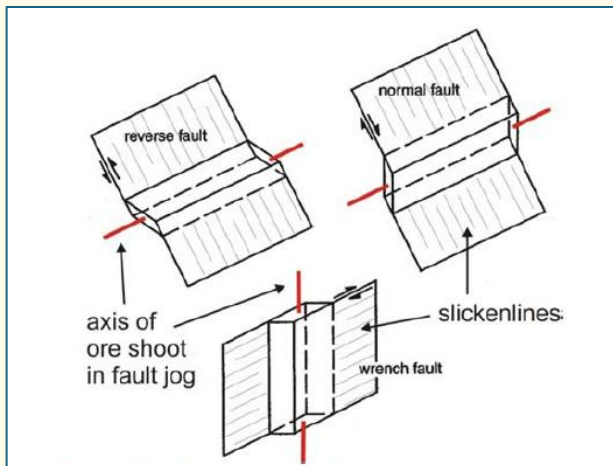
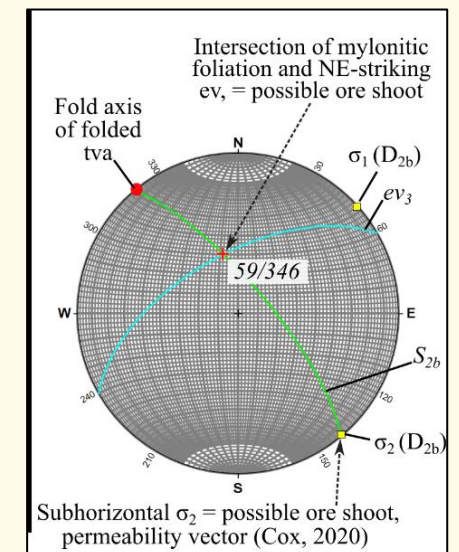
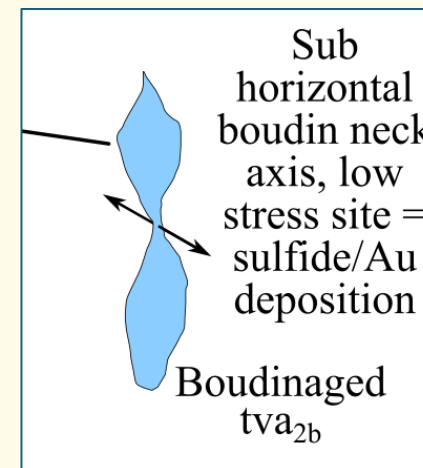


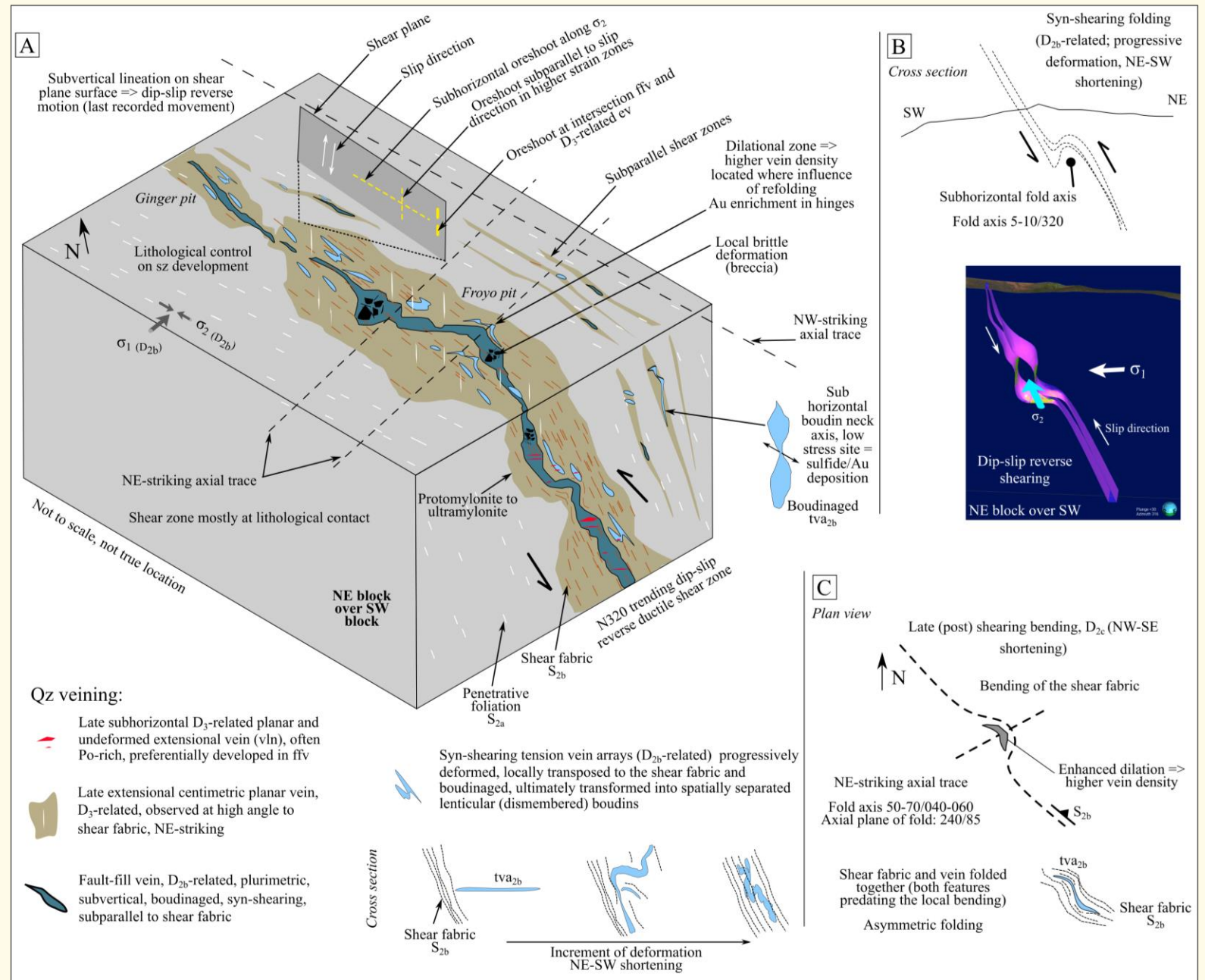
Figure 27. Illustration of kinematically-controlled ore shoot orientation in reverse, normal, and wrench fault systems. The long axis of the ore shoot is perpendicular to slickensides in the fault plane. See Nelson (2006).





Froyo-Ginger Target Summary

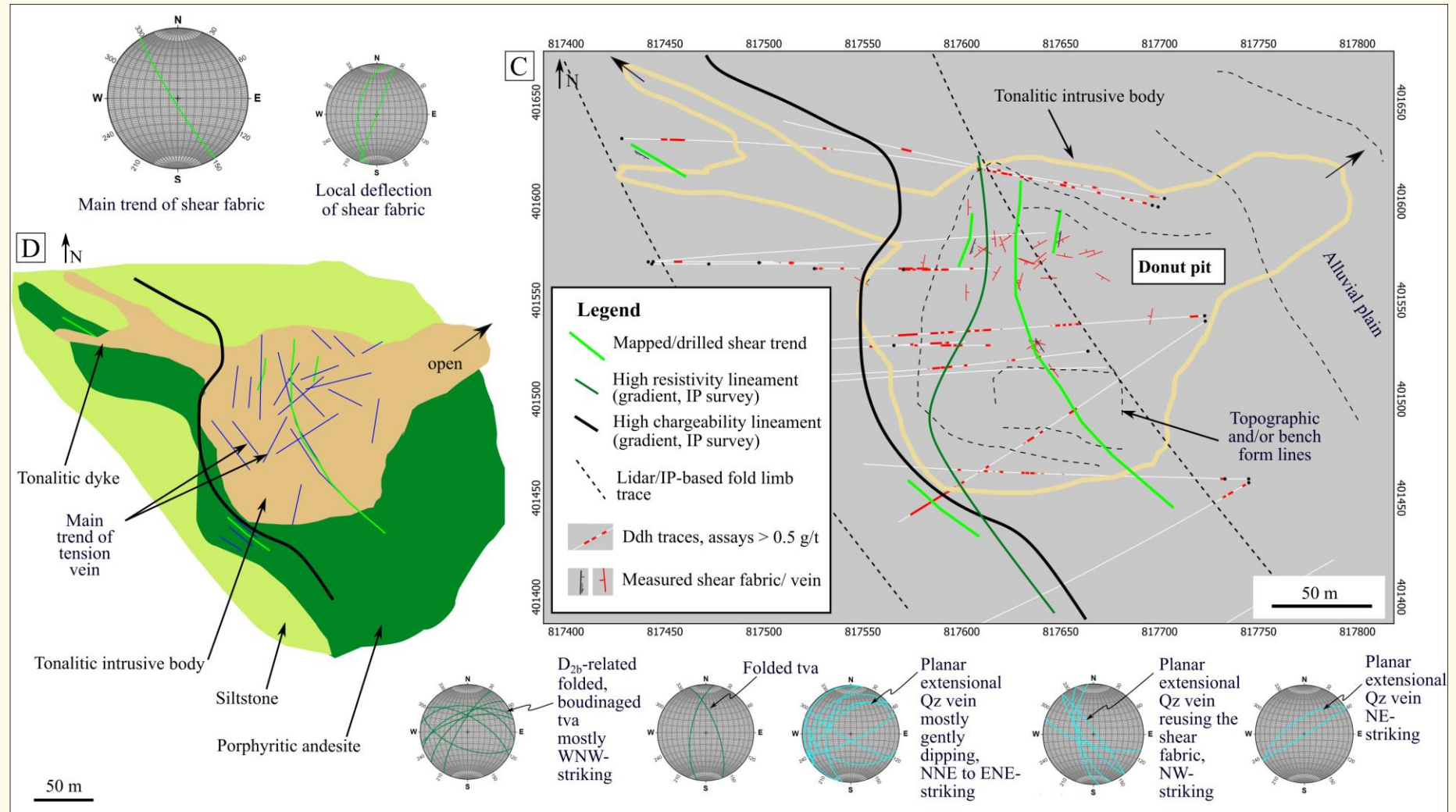
- Model for the Froyo-Ginger target
- Importance of folding





Donut Drill Target

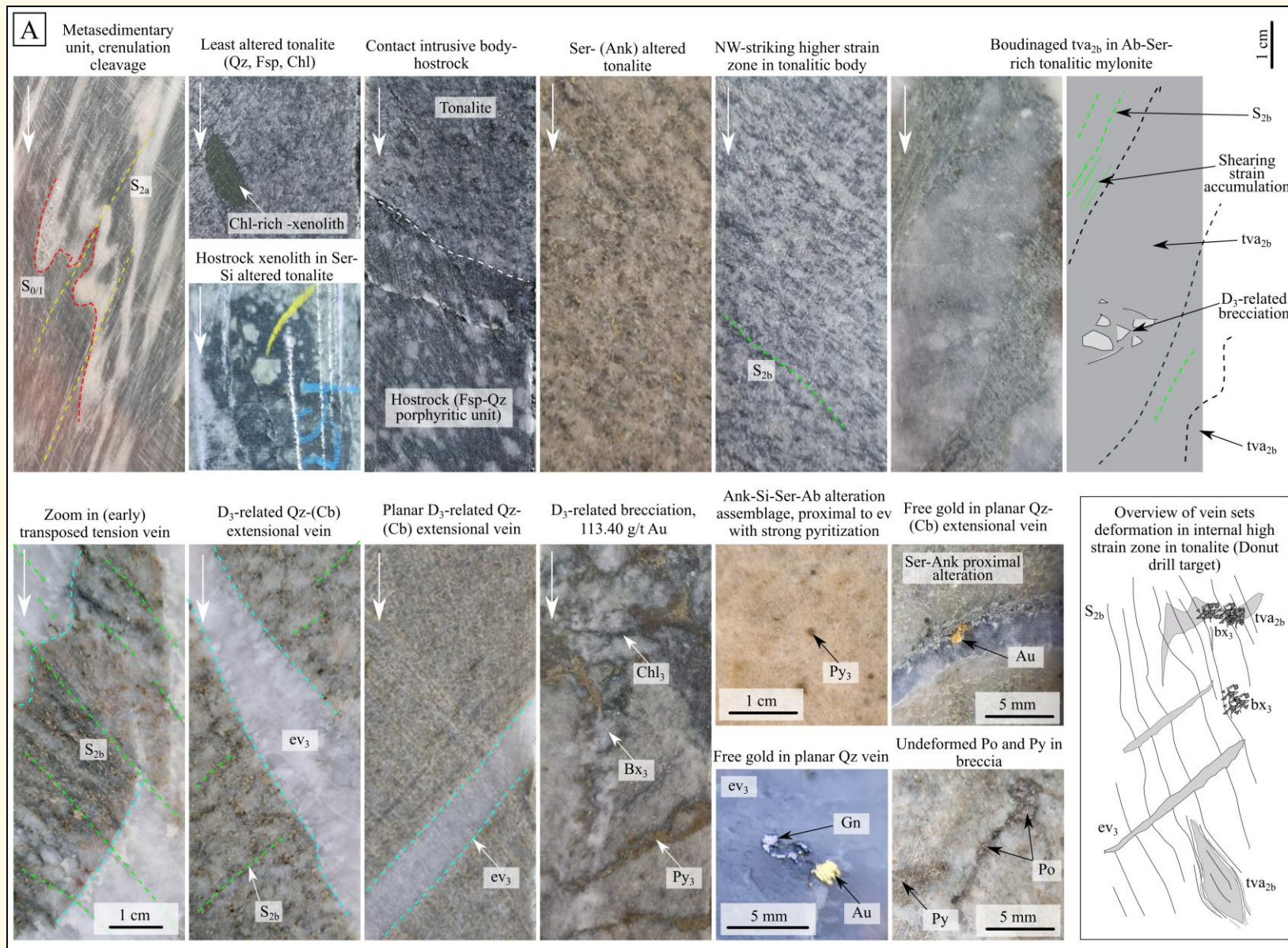
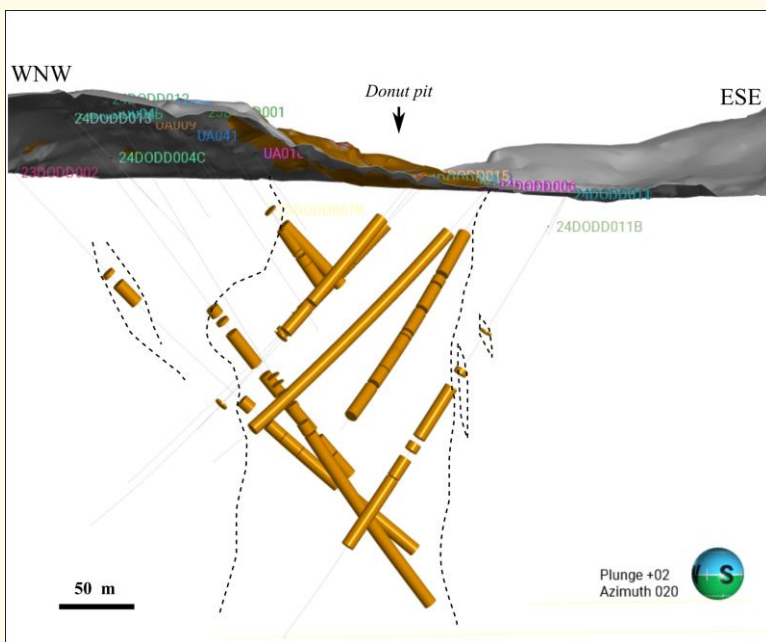
- Intrusion hosted, Au associated with internal shearing and brittle veining
- 19 m @ 14.23 g/t (24DO07) and 45 m @ 2.16 g/t (24DO06) D₃ deformation stage = NE trending





Donut Drill Target

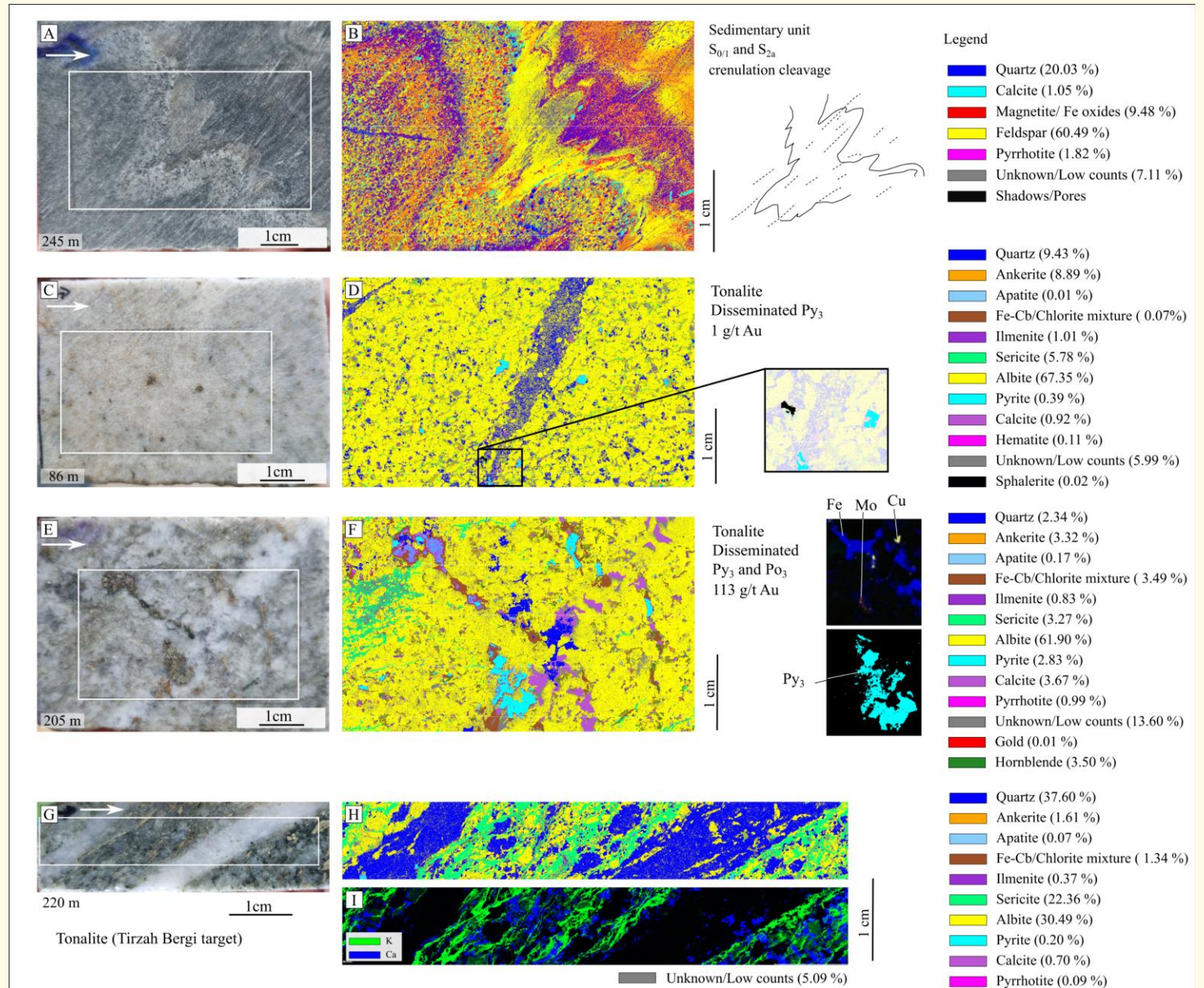
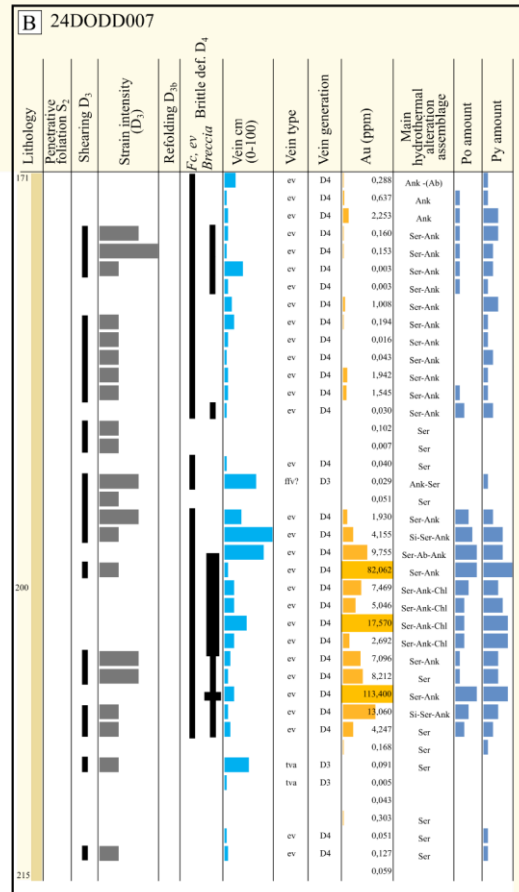
- Main Observations





Donut Drill Target

- μ xrf scan

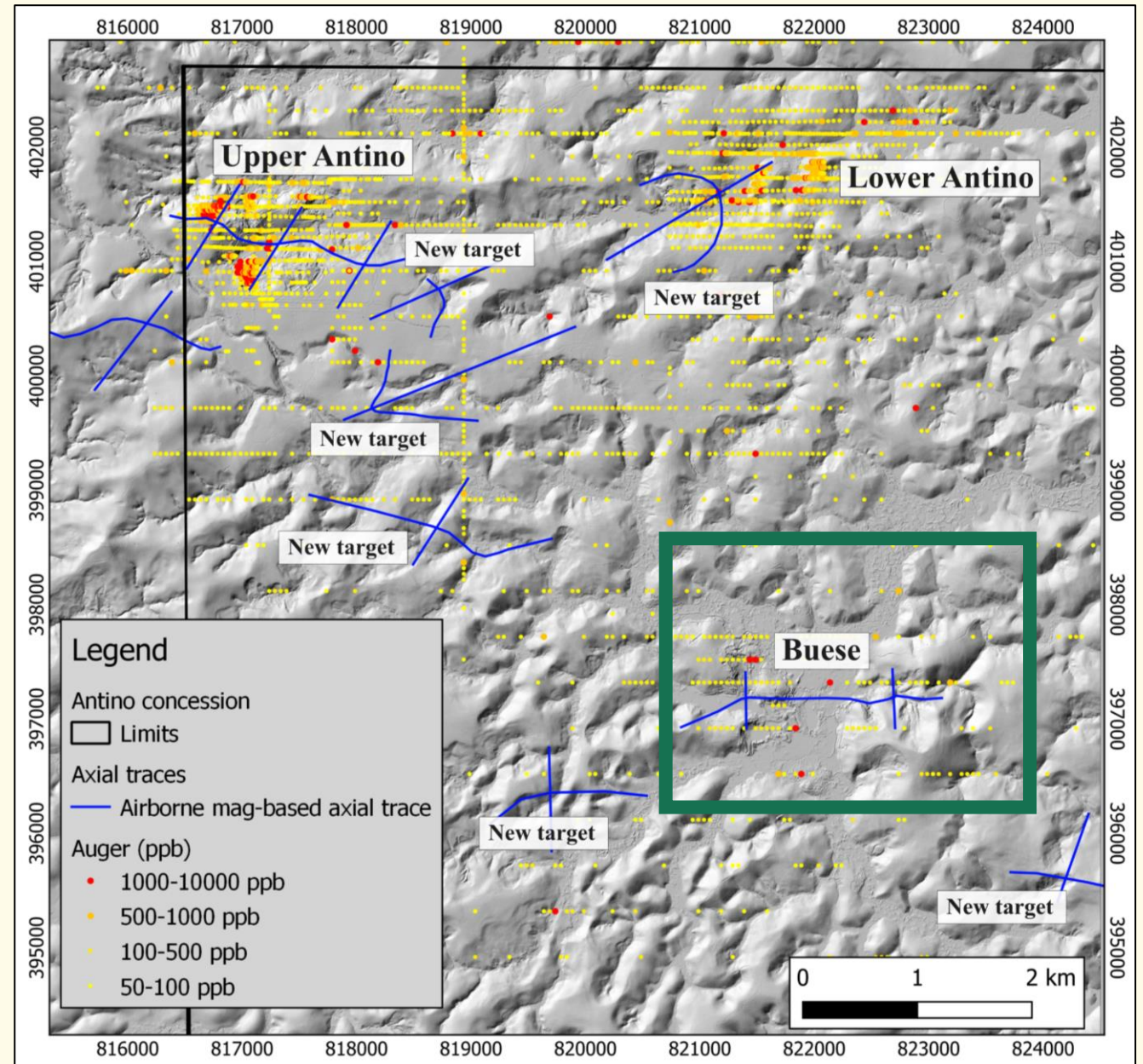


Buese Exploration Target





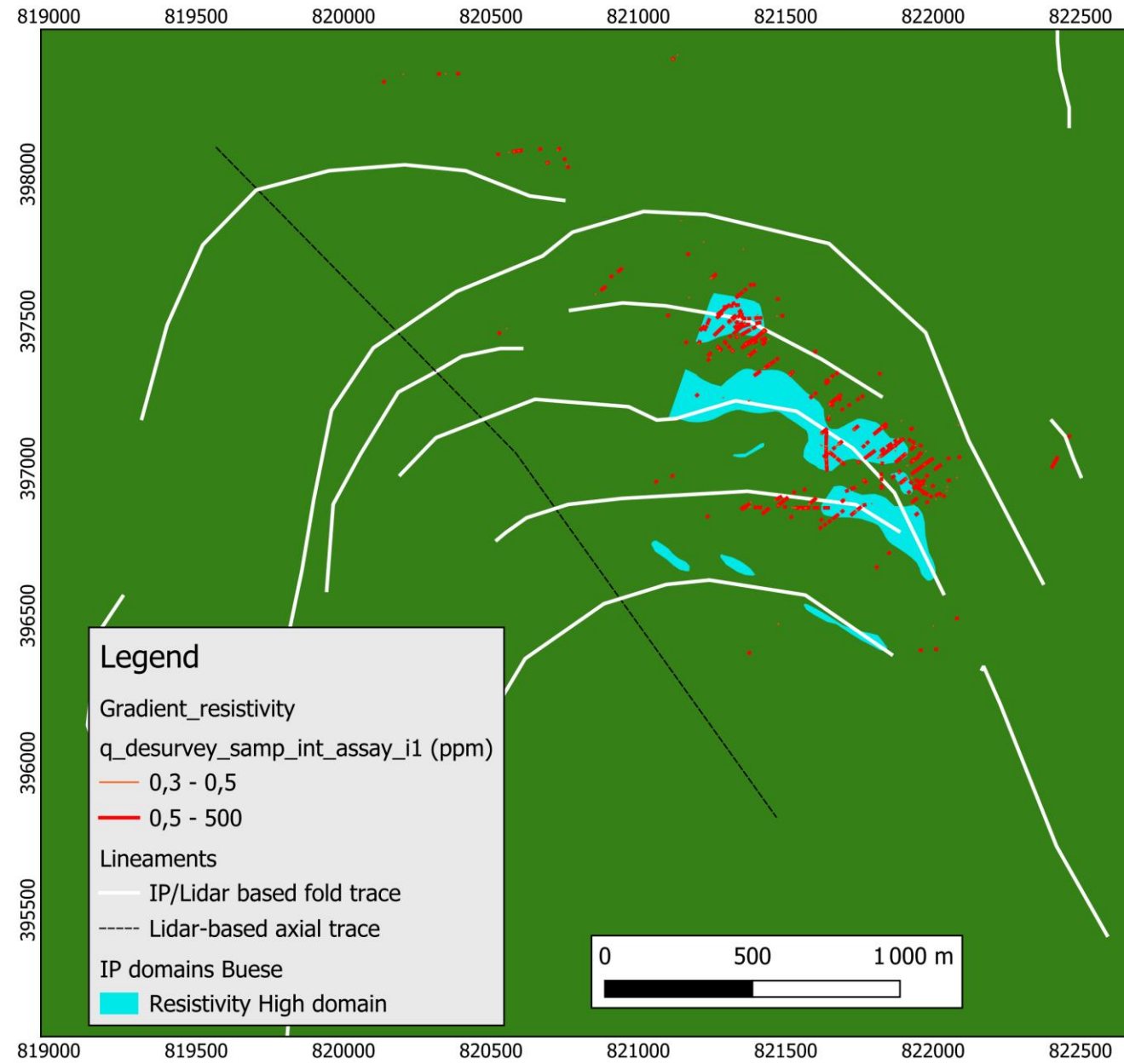
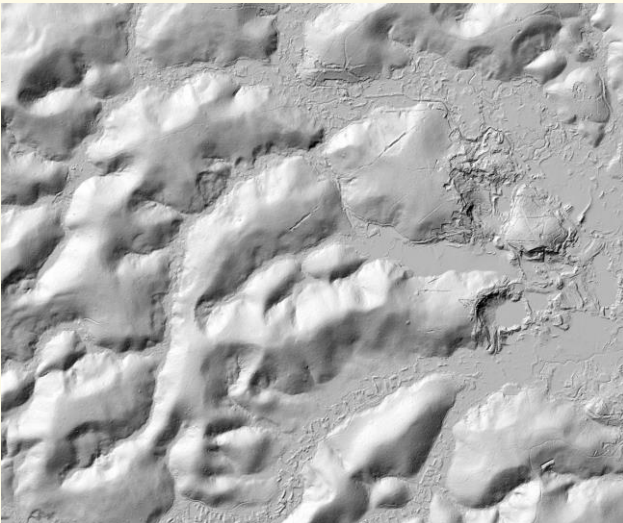
Buese Target





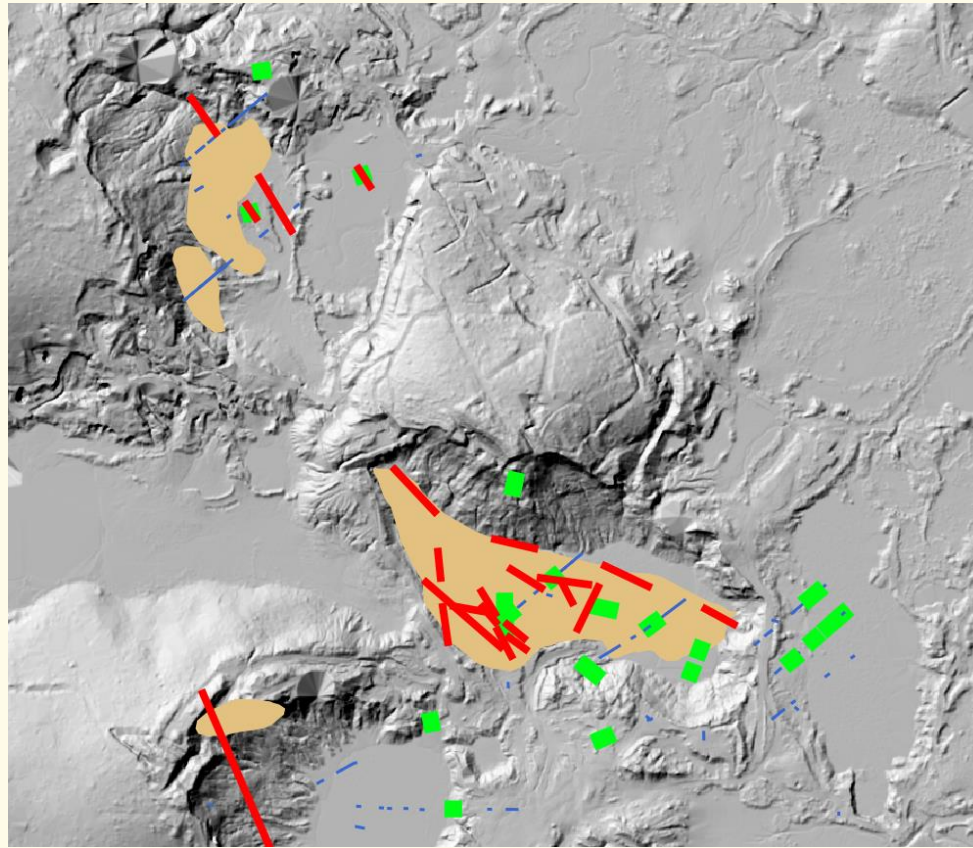
Buese Target Overview

- Folded structure similar to Upper Antino
- Mainly intrusion-hosted



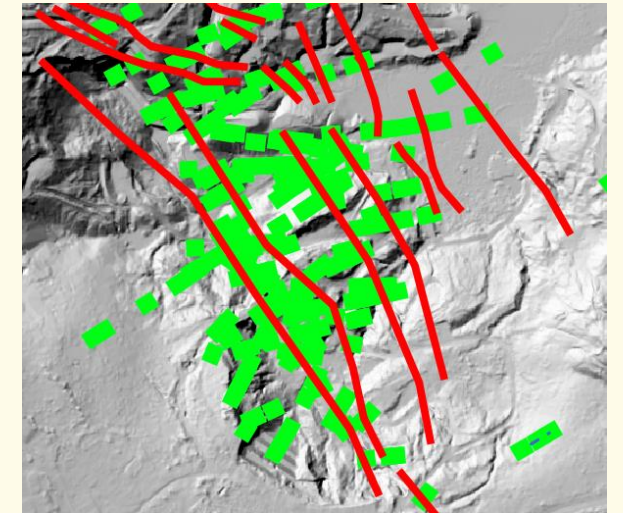


Tirzah Bergi Drilling



Tirzah Bergi

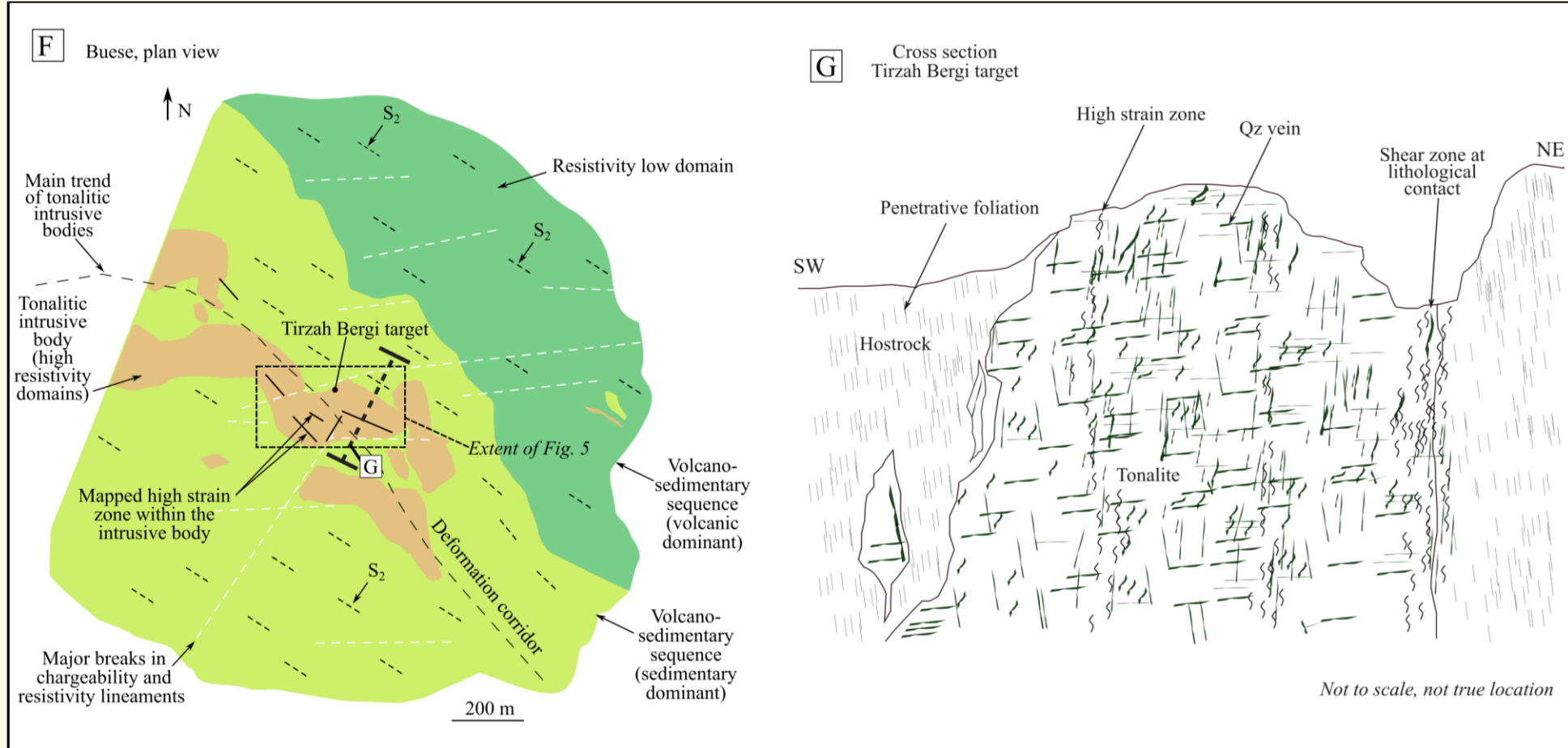
Froyo





Buese Target Overview

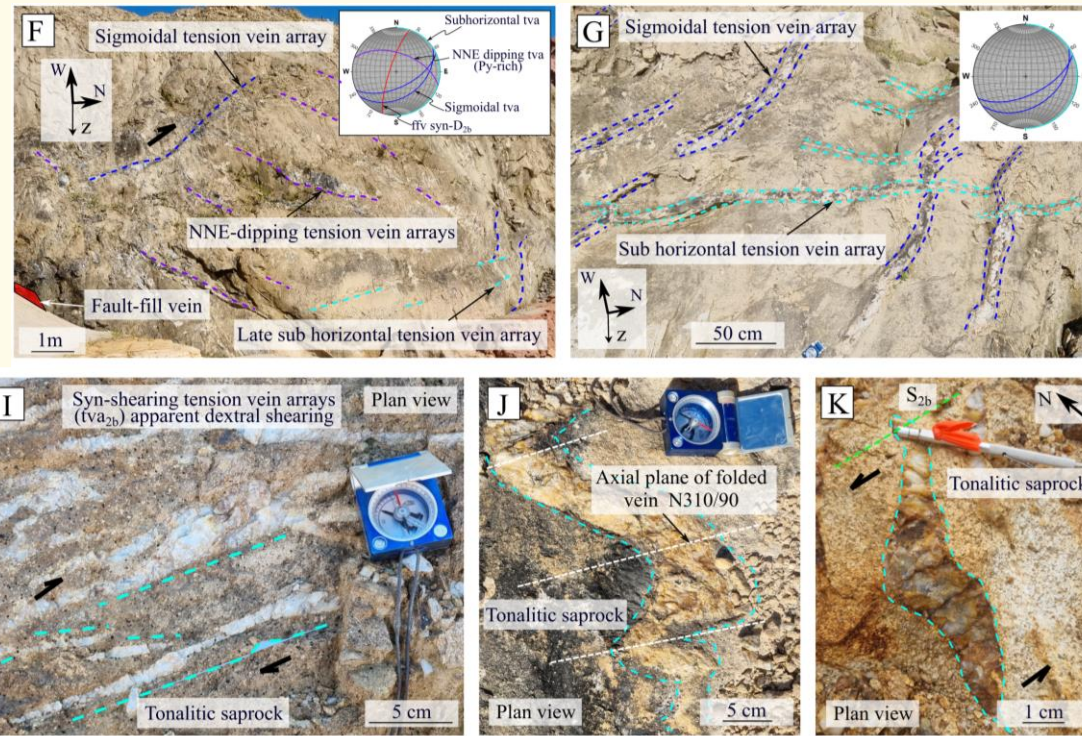
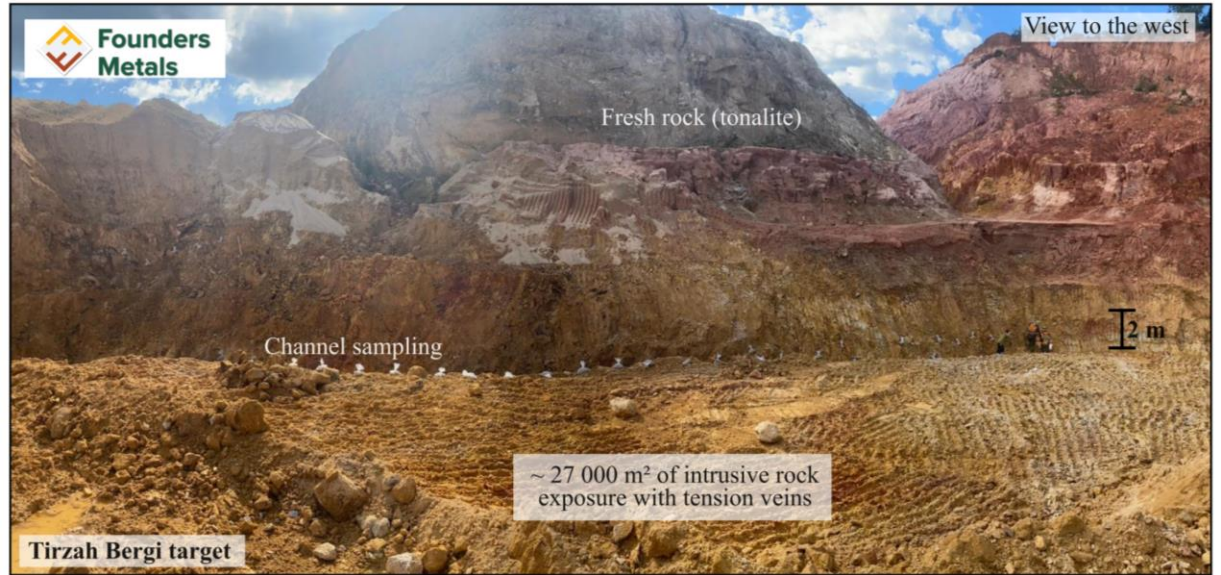
- Spatial distribution of intrusive bodies (based on mapping, historical drilling and IP survey)
- High resistivity domain= tonalitic bodies





Tirzah Bergi Pit Mapping

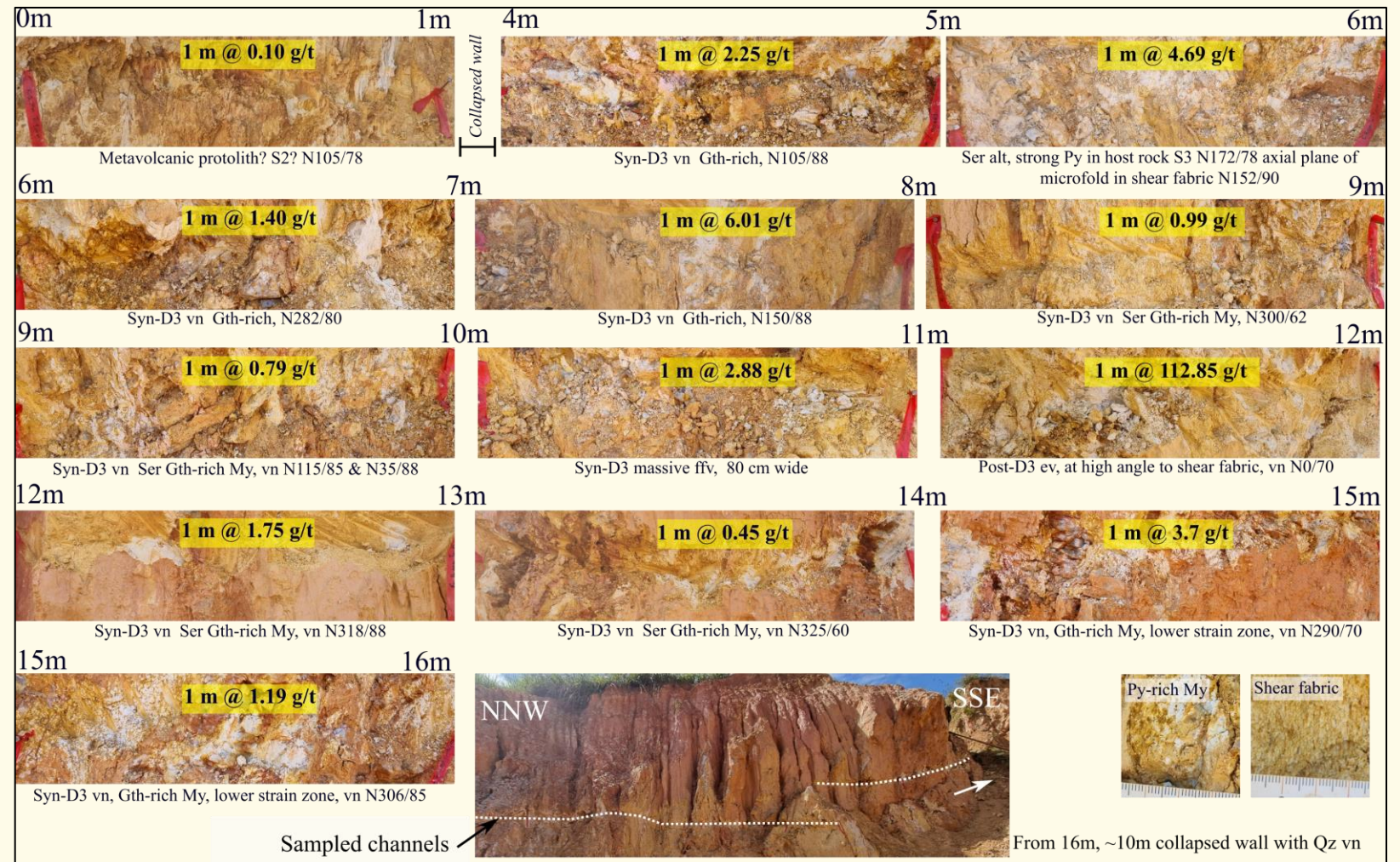
- Large tonalitic body
- 4 sets of Qz vein are identified
- Multiple zones with a strong pyritization





Channel Sampling Tirzah Bergi

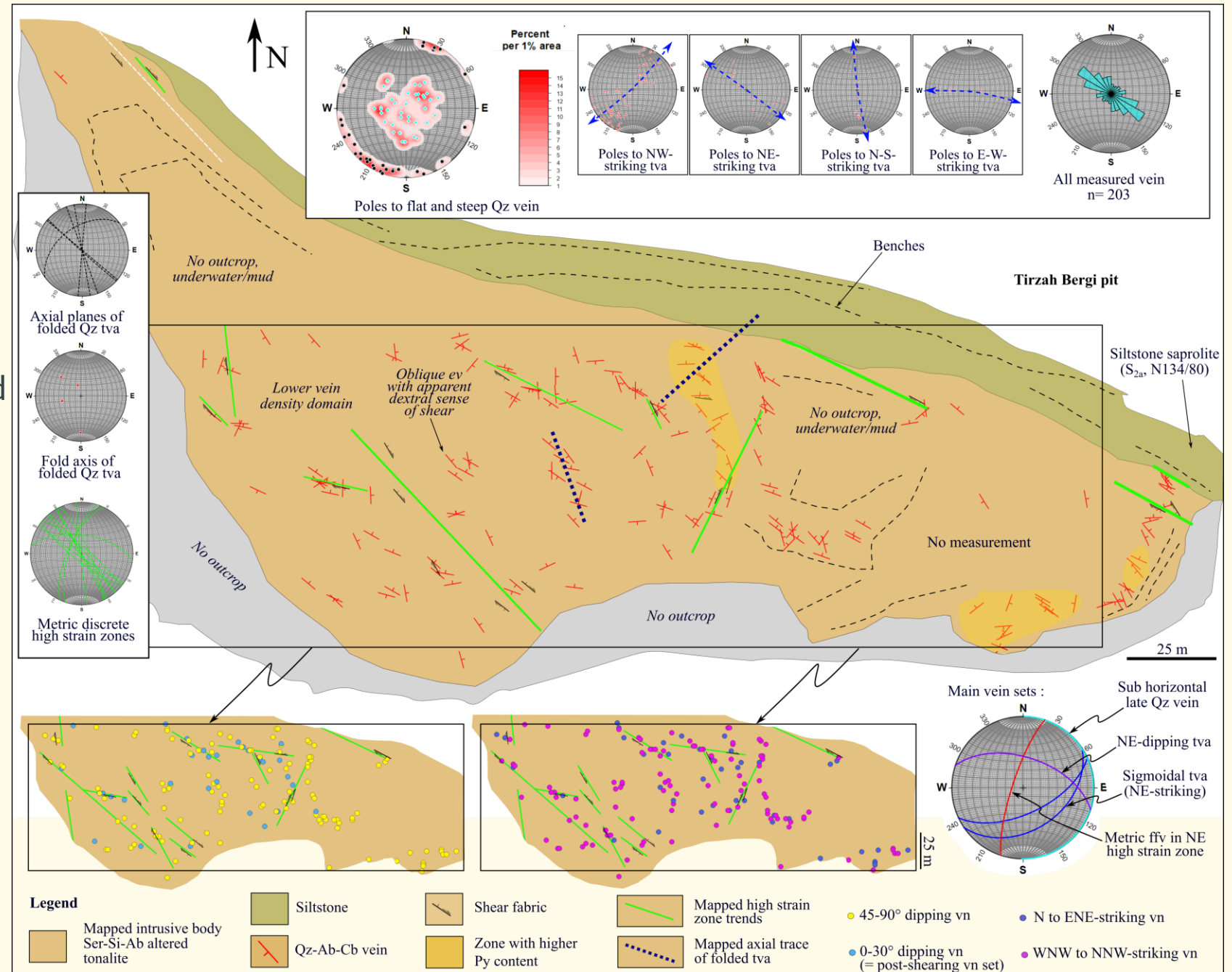
- The main shear zone located at the East of the pit was sampled
- 1m intervals
- 26m wide shear zone
- **Although Buese is mainly intrusion-hosted, the shear zone-hosted mineralization itself seems volumetrically more important than at Upper Antino**





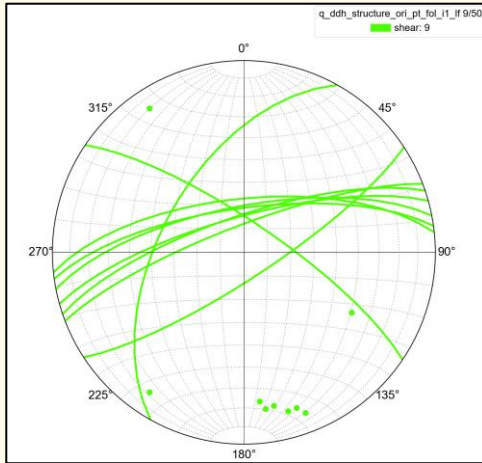
Tirzah Bergi Pit Mapping

- Large tonalitic body
- 4 sets of Qz vein are identified
- Multiple zones with a strong pyritization

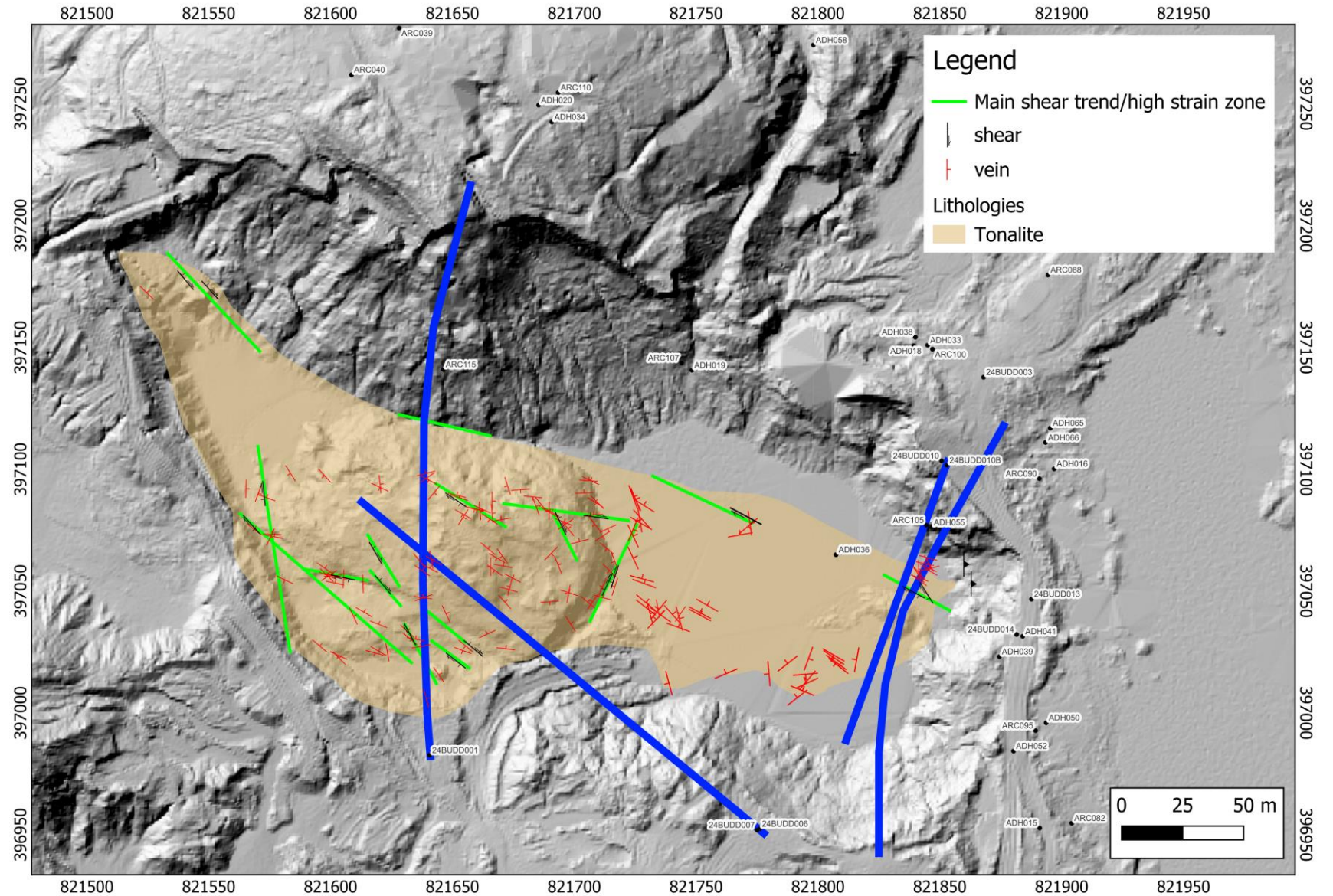




Tirzah Bergi Drilling

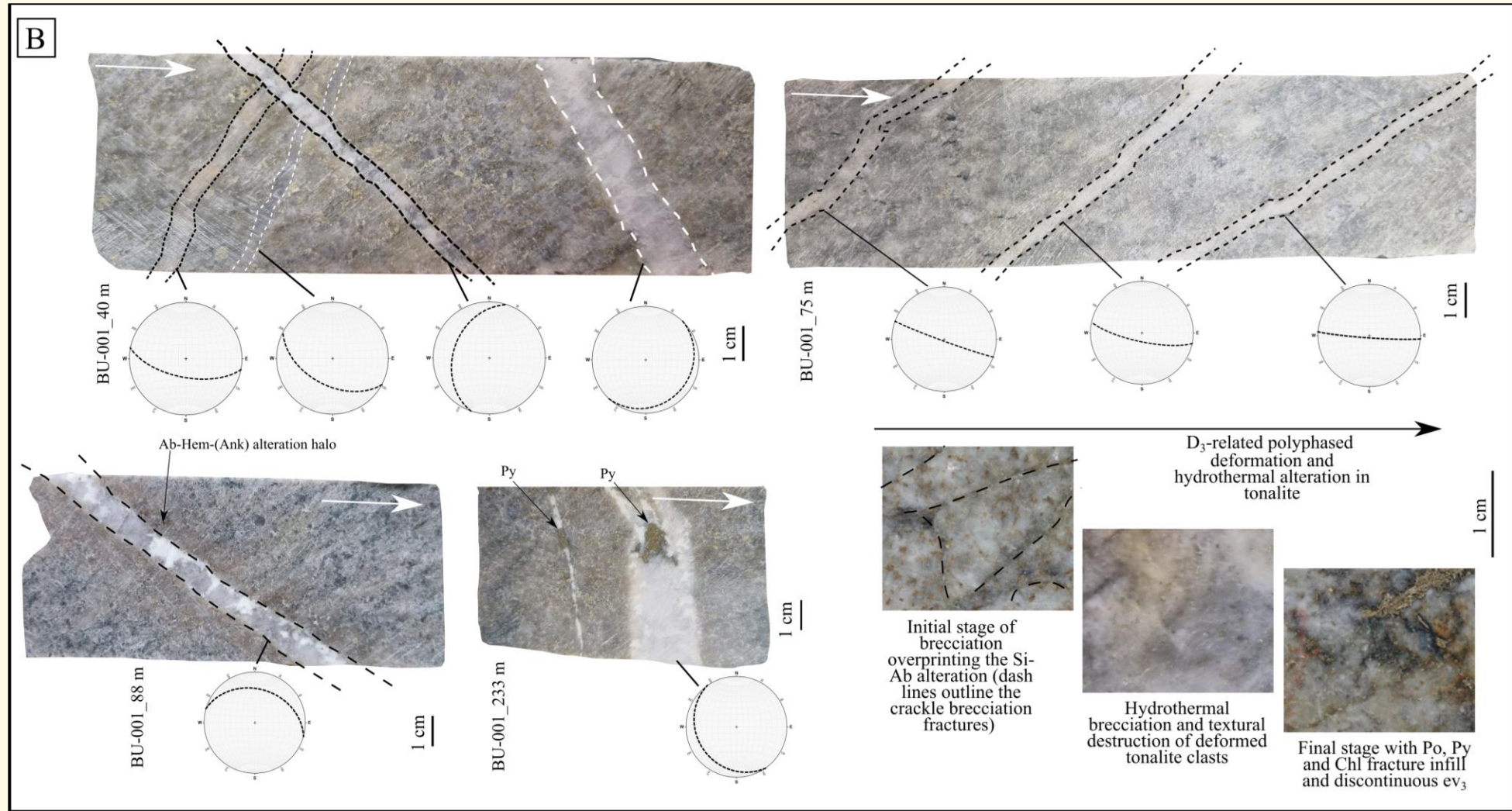


Internal metric Ser-rich high strain zone



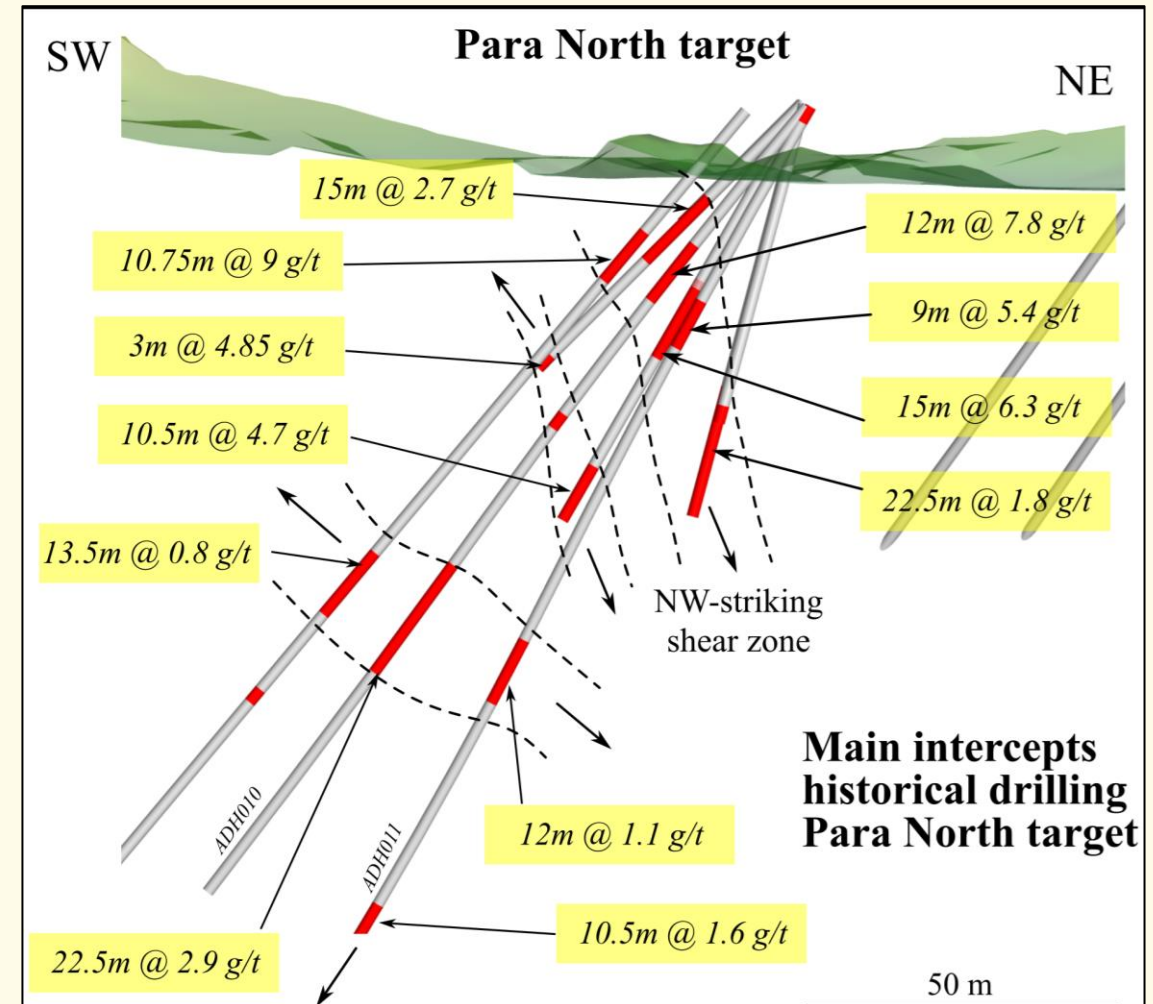
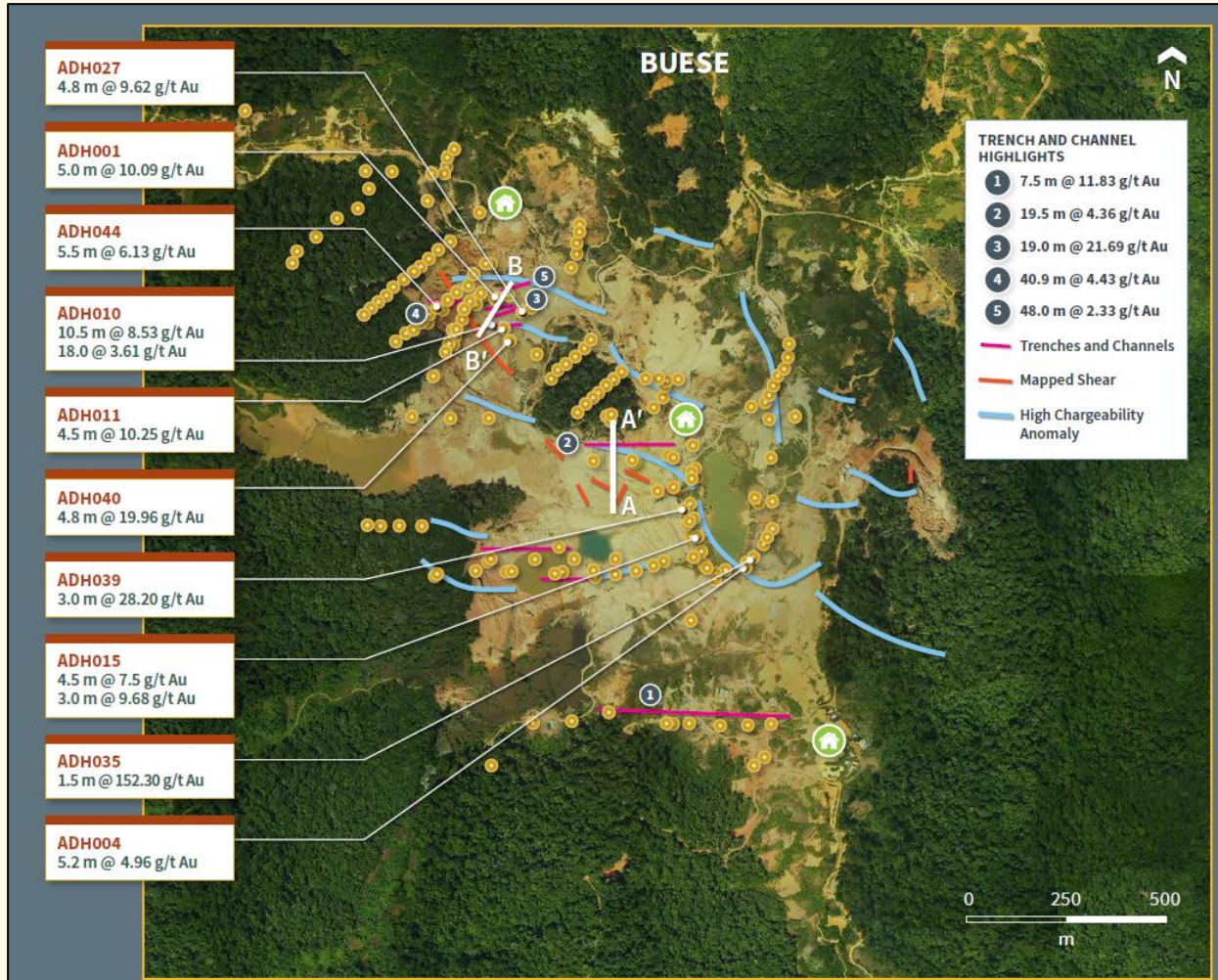


Tirzah Bergi Drilling





Para North Target



2024 drilling: 78 m @ 2,35 g/t Au

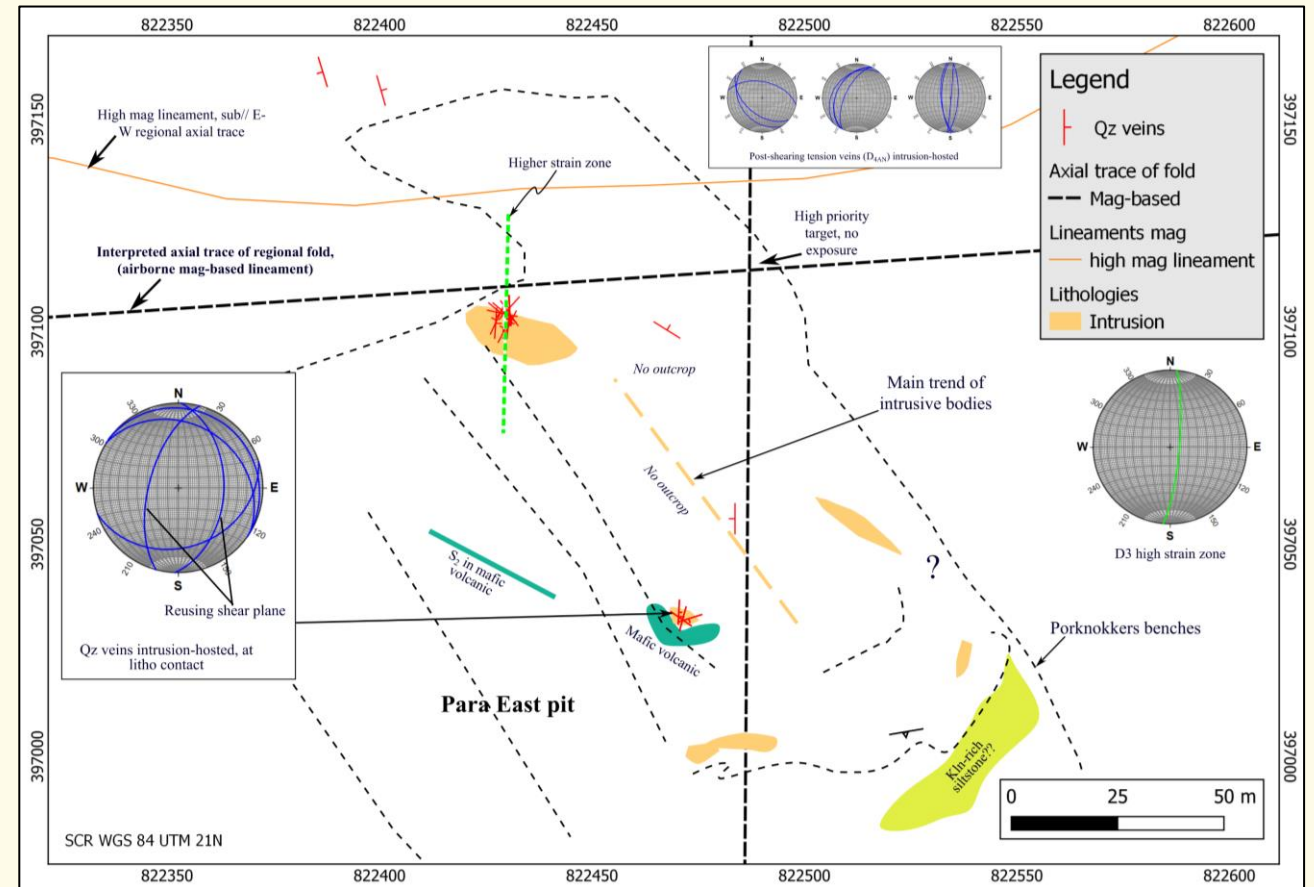
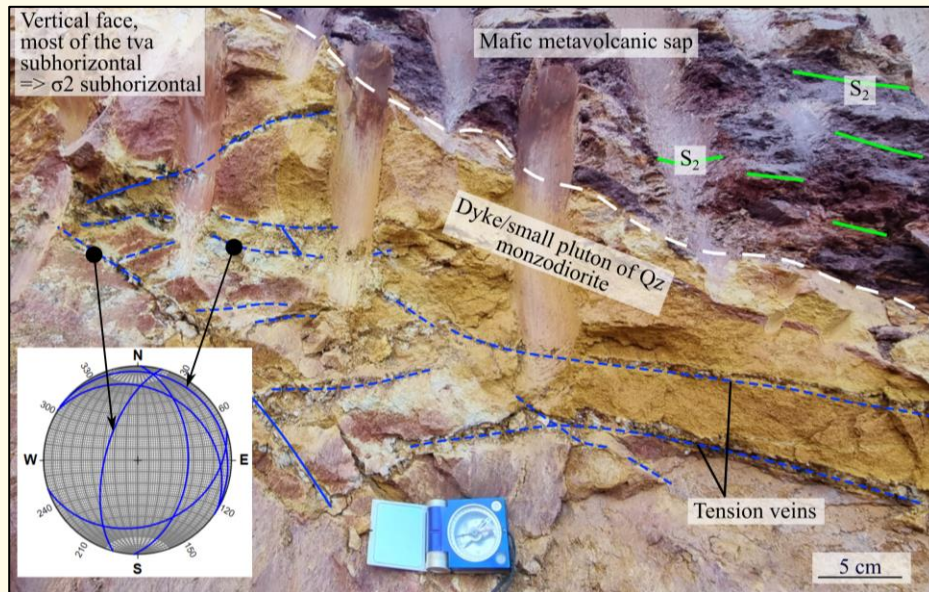
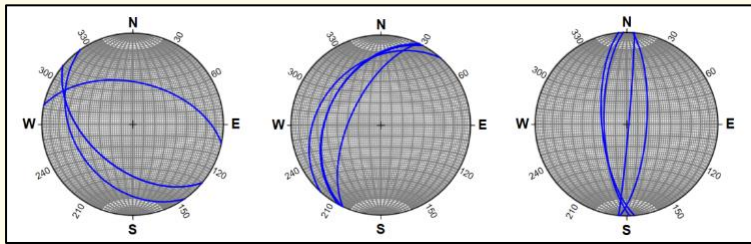
-Shape intrusion

-D3 overprinting



Para East Drilling

- The intrusions are observed as small dykes and lenses
- High strain zone dipping to East
- Gold bearing vein striking N130/50, N200-220 and N-S



Summary UA & Buese

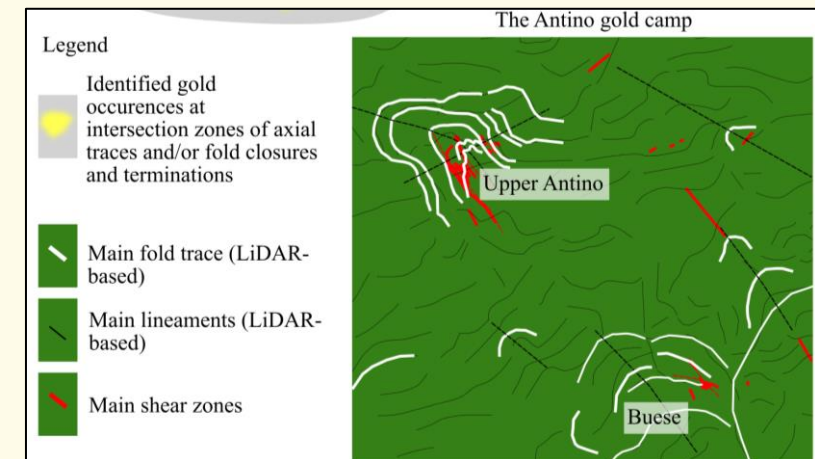
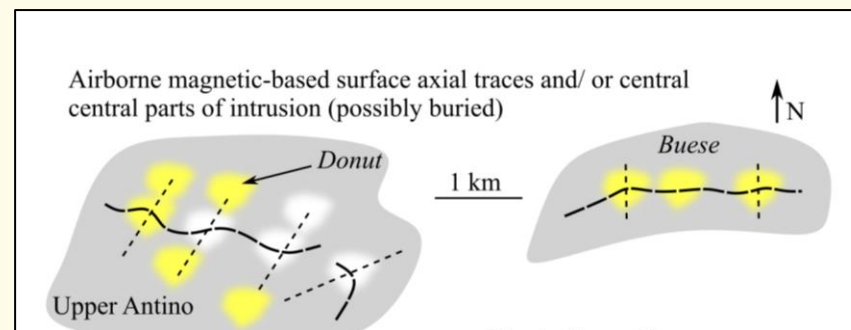
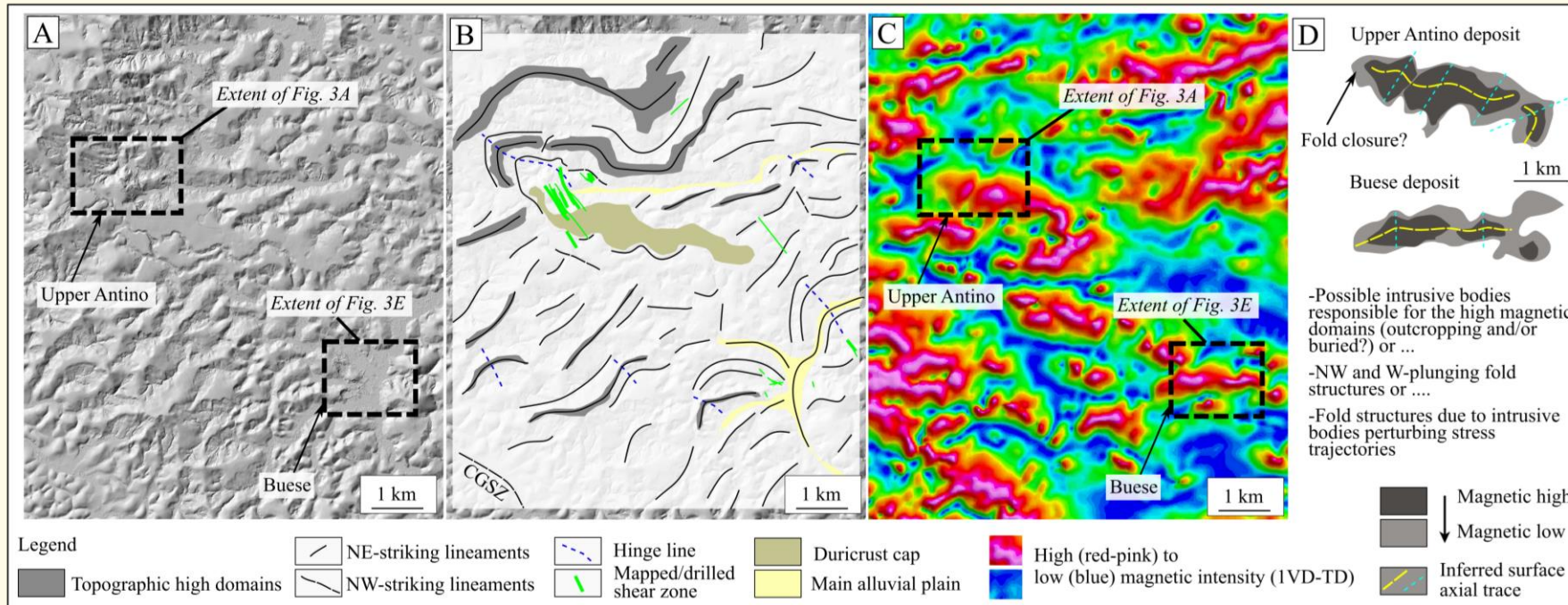


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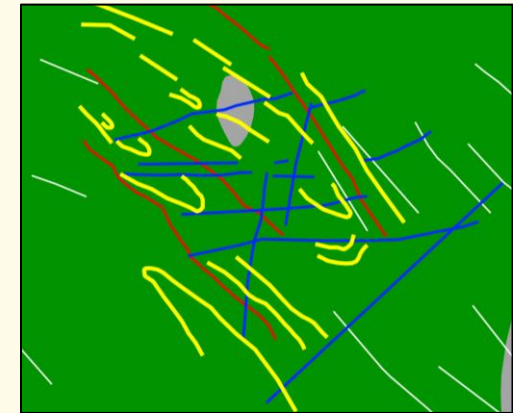
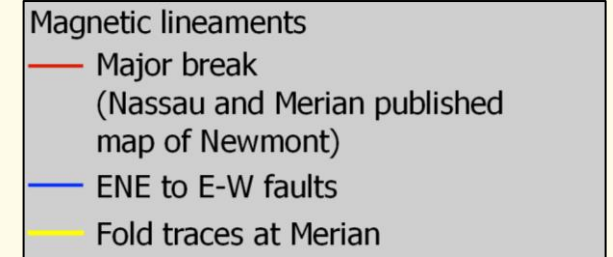
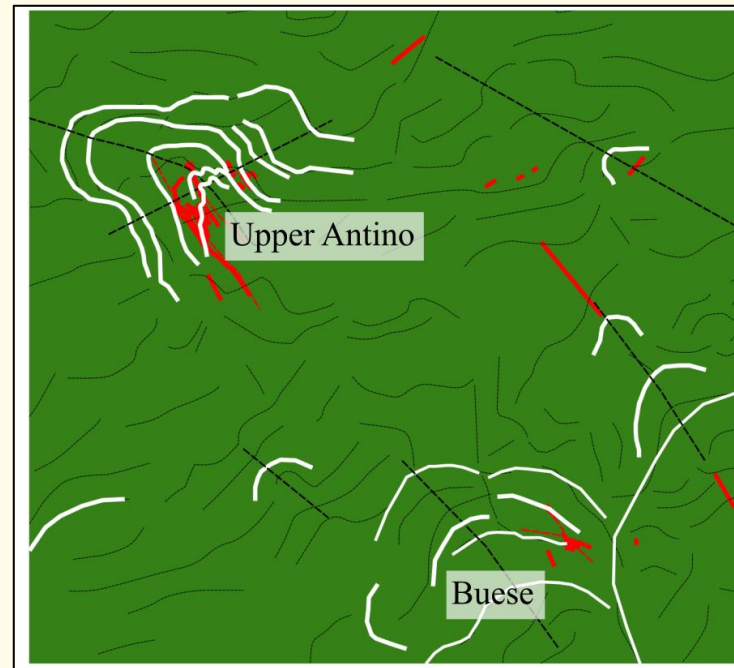
Structural controls, camp scale





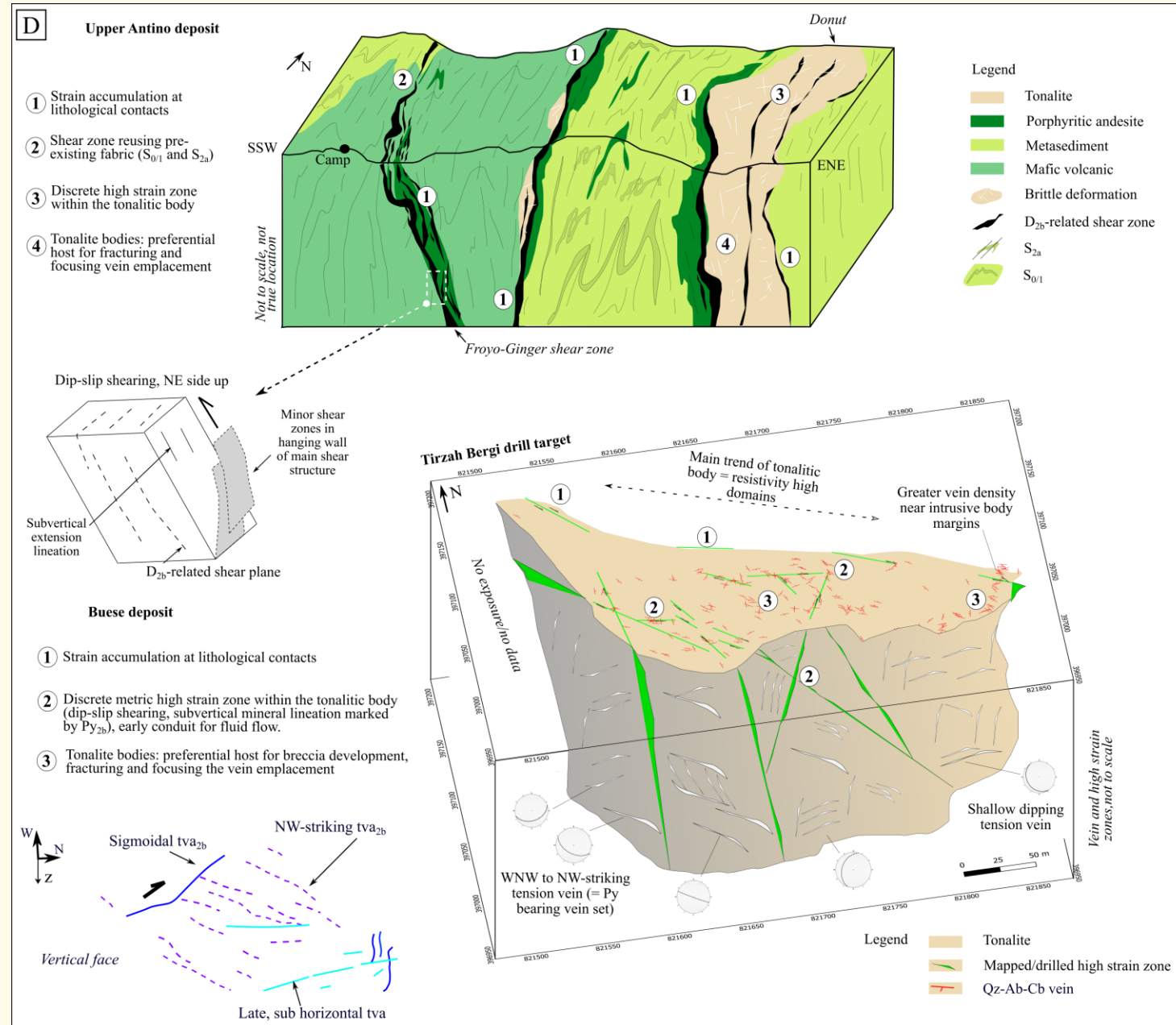
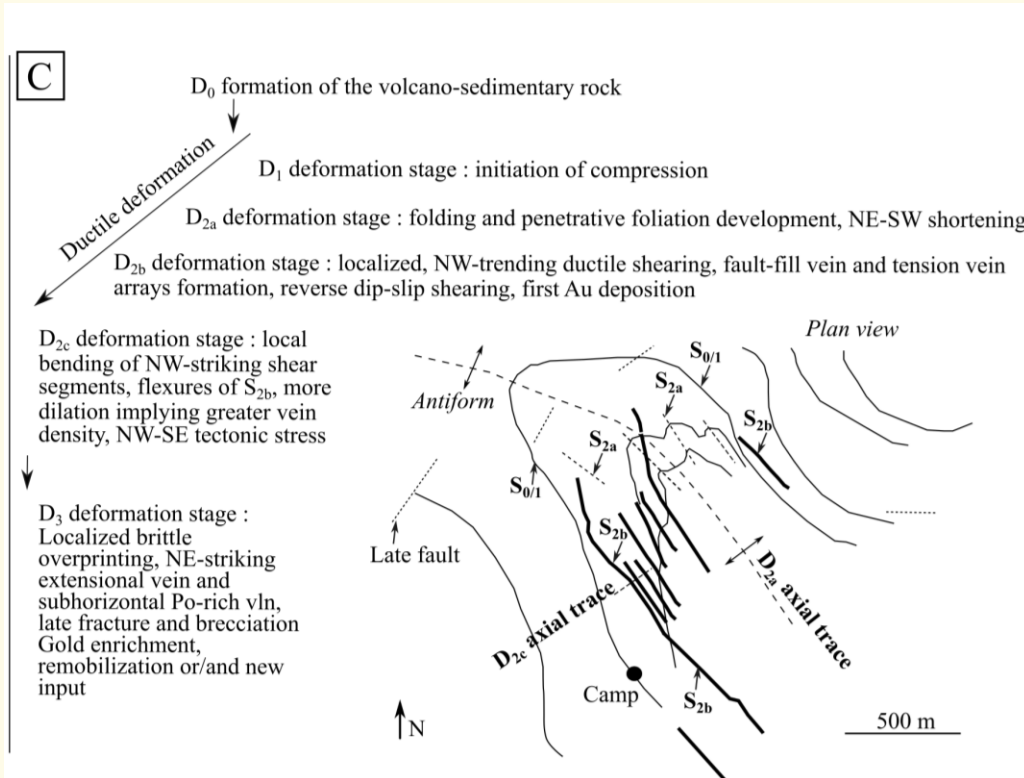
Structural controls, camp scale

- Similarities with Merian
- NW axial planes
- NE to ENE late faults
- Late Po= higher Au content



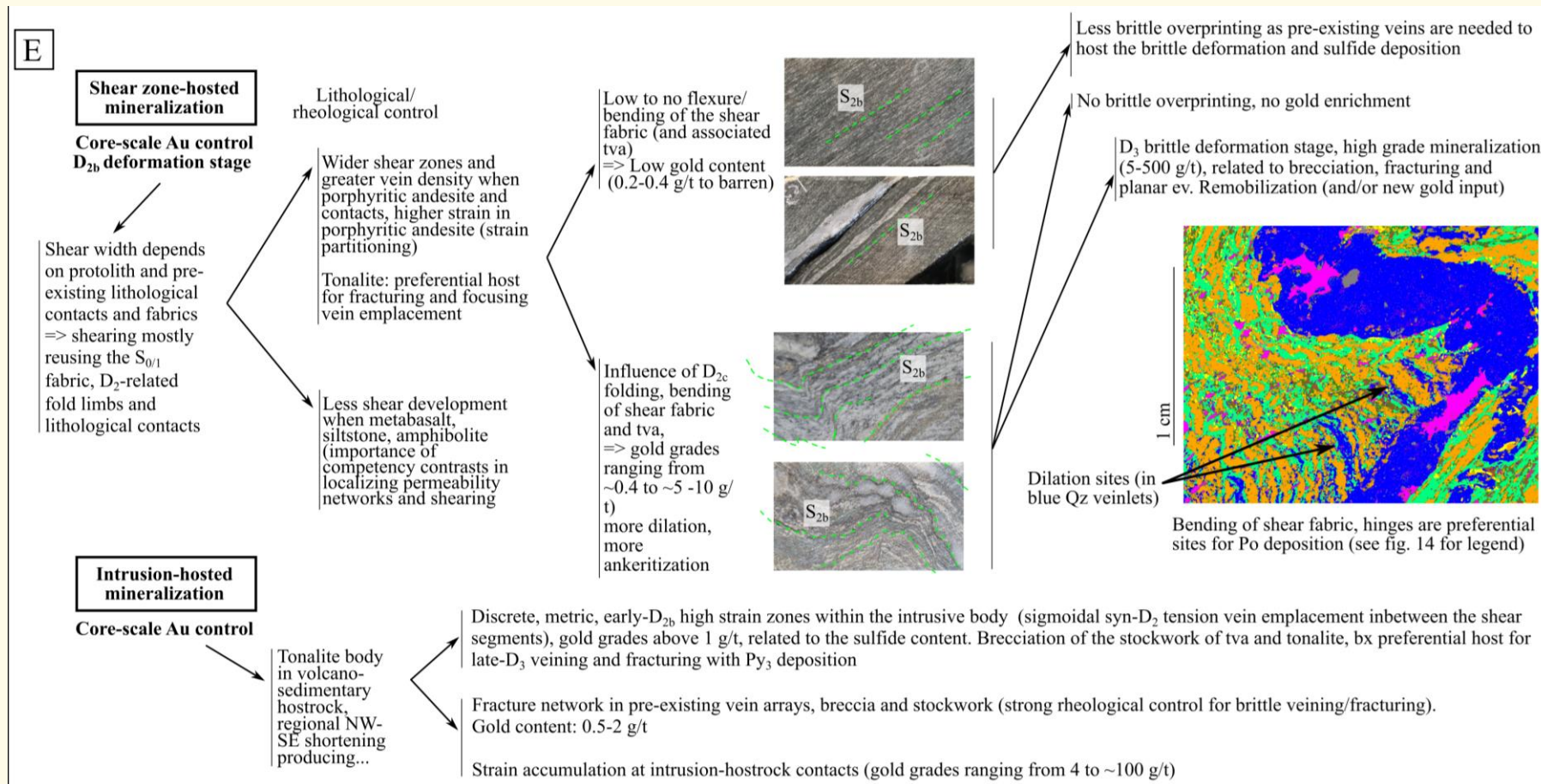


Structural controls, deposit scale





Structural controls, macro/microscopic scale



Lower Antino



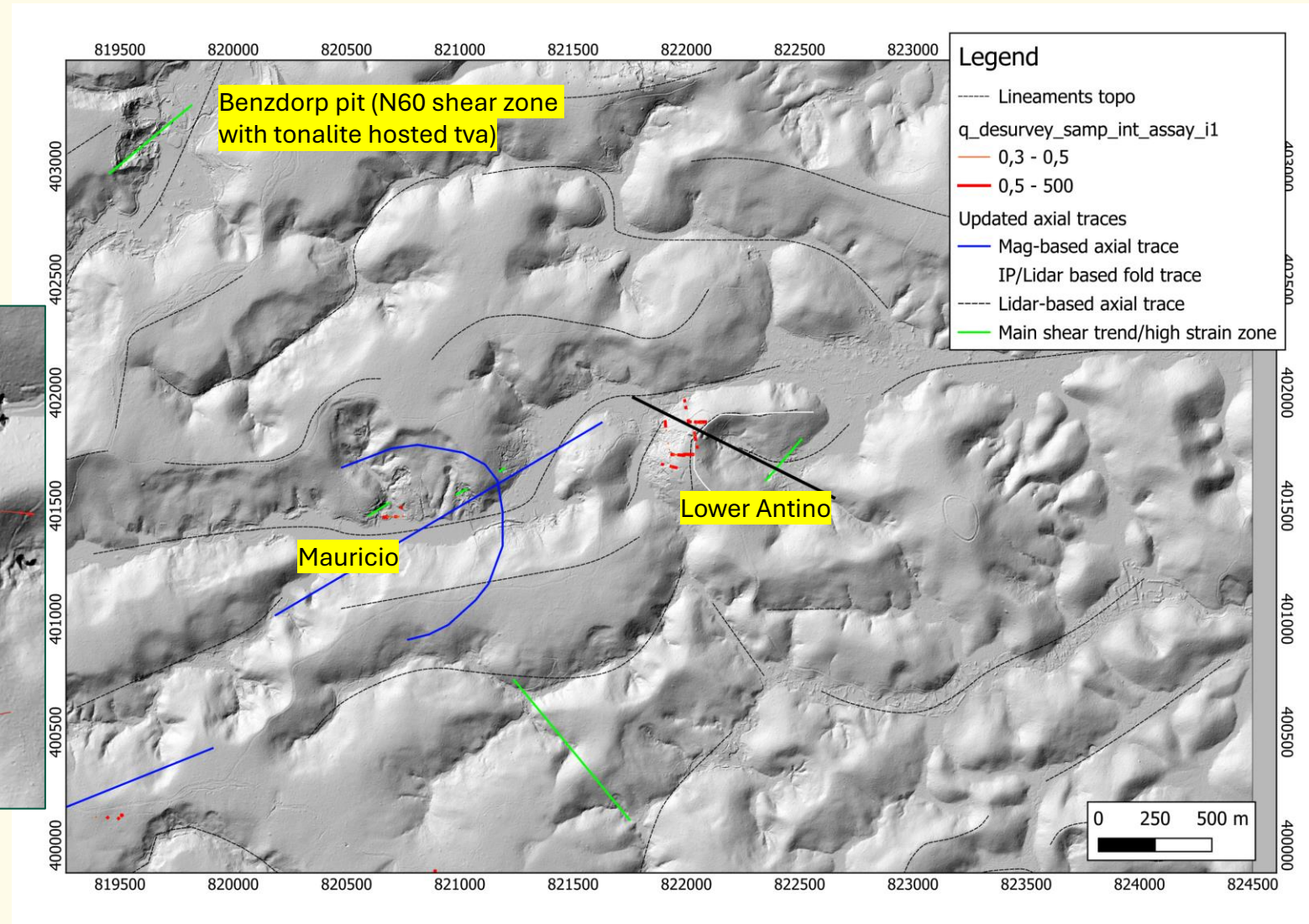
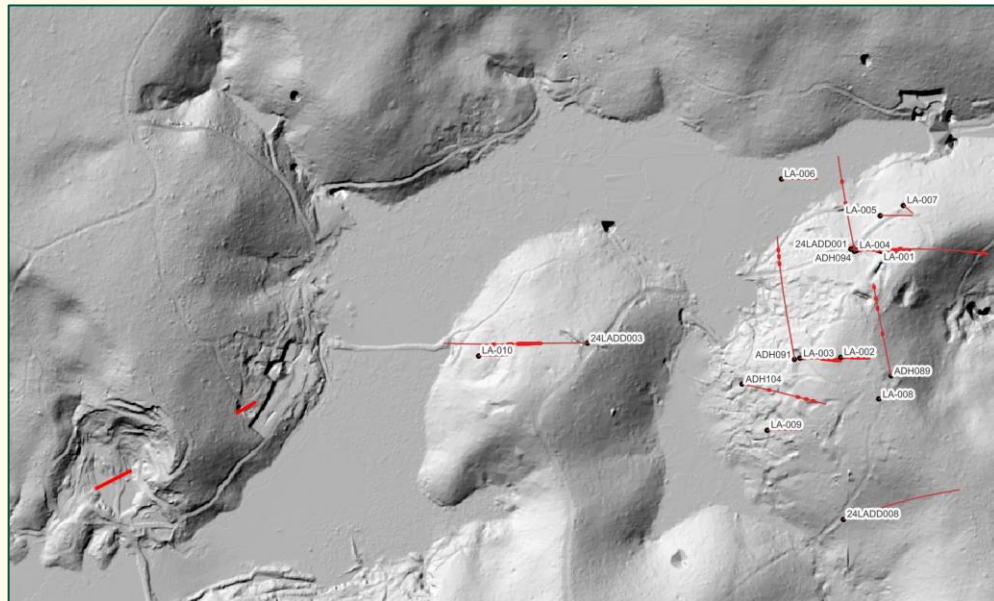
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Mauricio pit

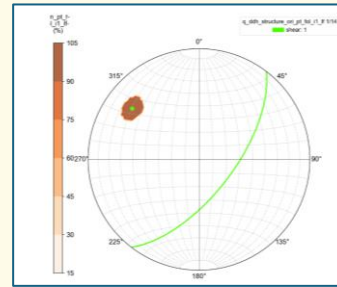


Lower Antino

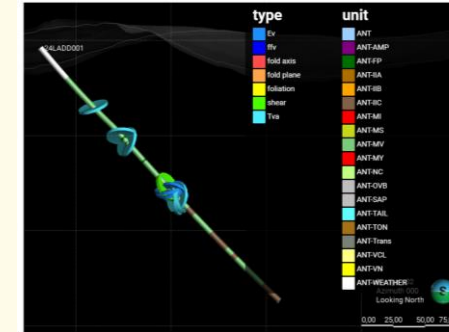
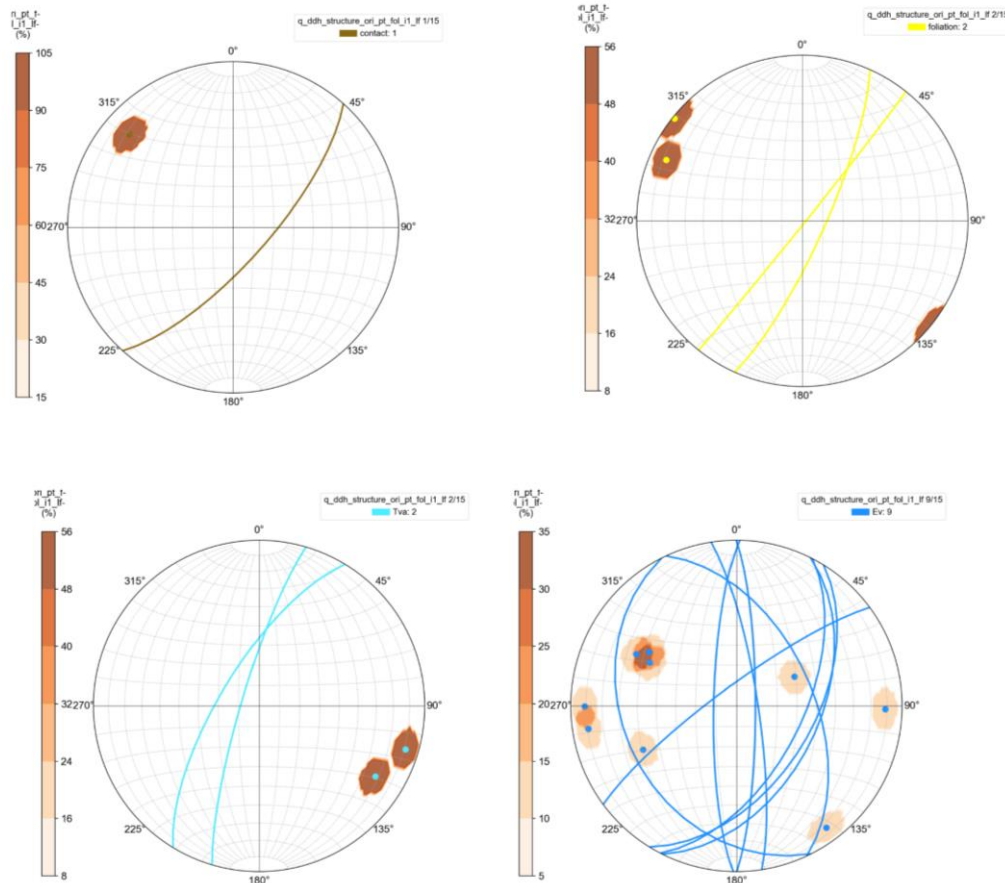




Lower Antino



24LADD003



LA-003

91 m

Disseminated
Py
And late fc with
Py infill

Tonalite

Lawa Targets (Eastern part of the Antino Concession)



N150 striking subvertical tension vein in tonalitic saprolite



Lawa Target

- Mapping and sampling at Lawa allowed to identify a 2.7 km long trend with Qz vein subcrops preferentially hosted by a tonalite
- Two main pits referred as Lawa North and Lawa South are mapped

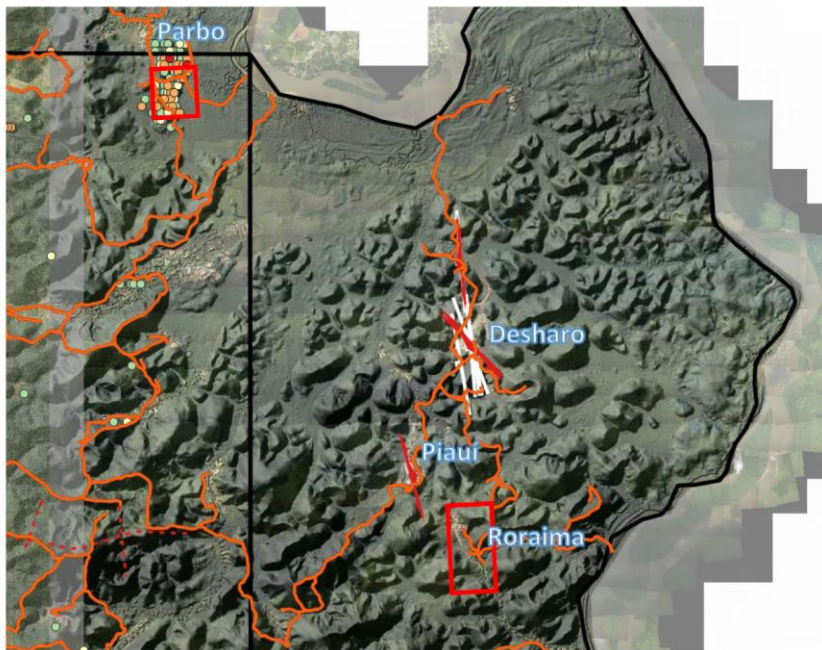
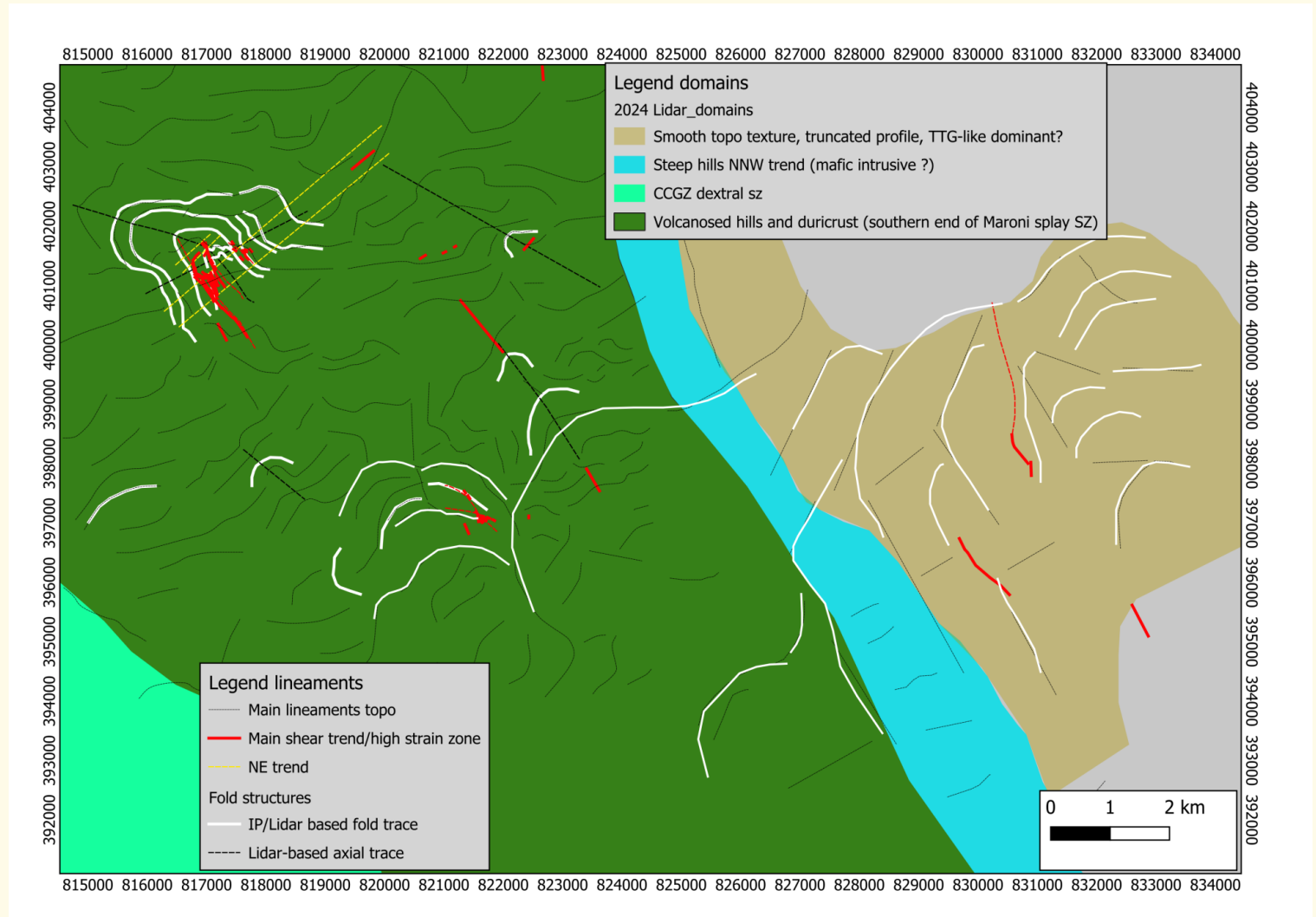


Figure 1. Locations mapped at Lawa South and Parbo target (red rectangles) on 17th September 2024

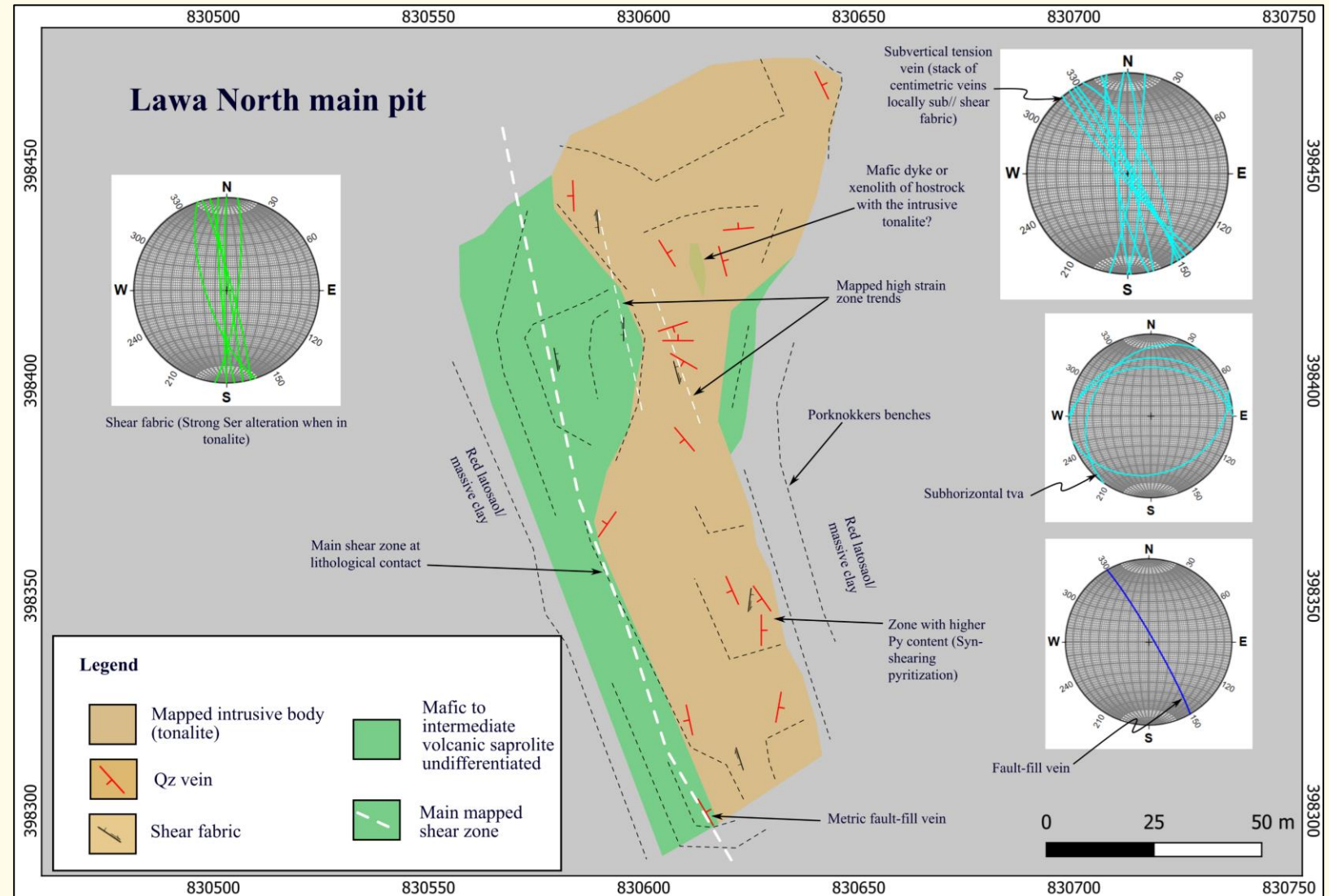
Current mapping of Rayiez and Brandon





Lawa Target: Lawa North Pit

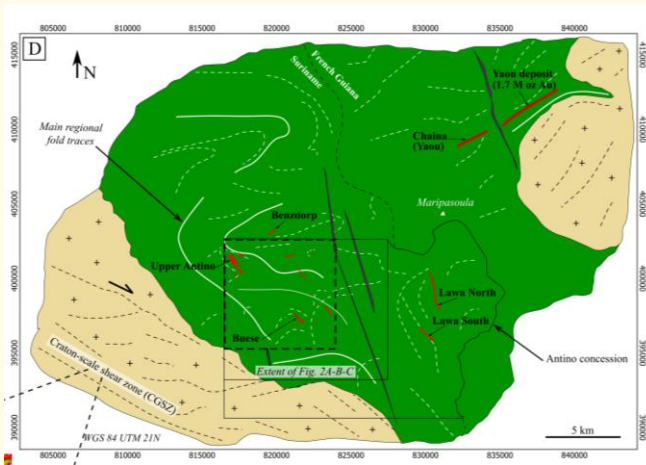
- Located at contact between a tonalite and a mafic volcanic hostrock
- Main shear with ffv at contact
- N150/85 shear
- Locally strong pyritization





Analogies with the Yaou deposit

- 1.5 M ounces average grade 2.1 g/t
- Shared settings with Buese and Donut pit:
- mostly intrusion-hosted mineralization, strong rheological control, tension veins in intrusive bodies, mainly subhorizontal, Py-rich and Mag-depleted with proximal Ab-Ank alteration halo



**But: Higher grades at Antino
Po not observed at Yaou**

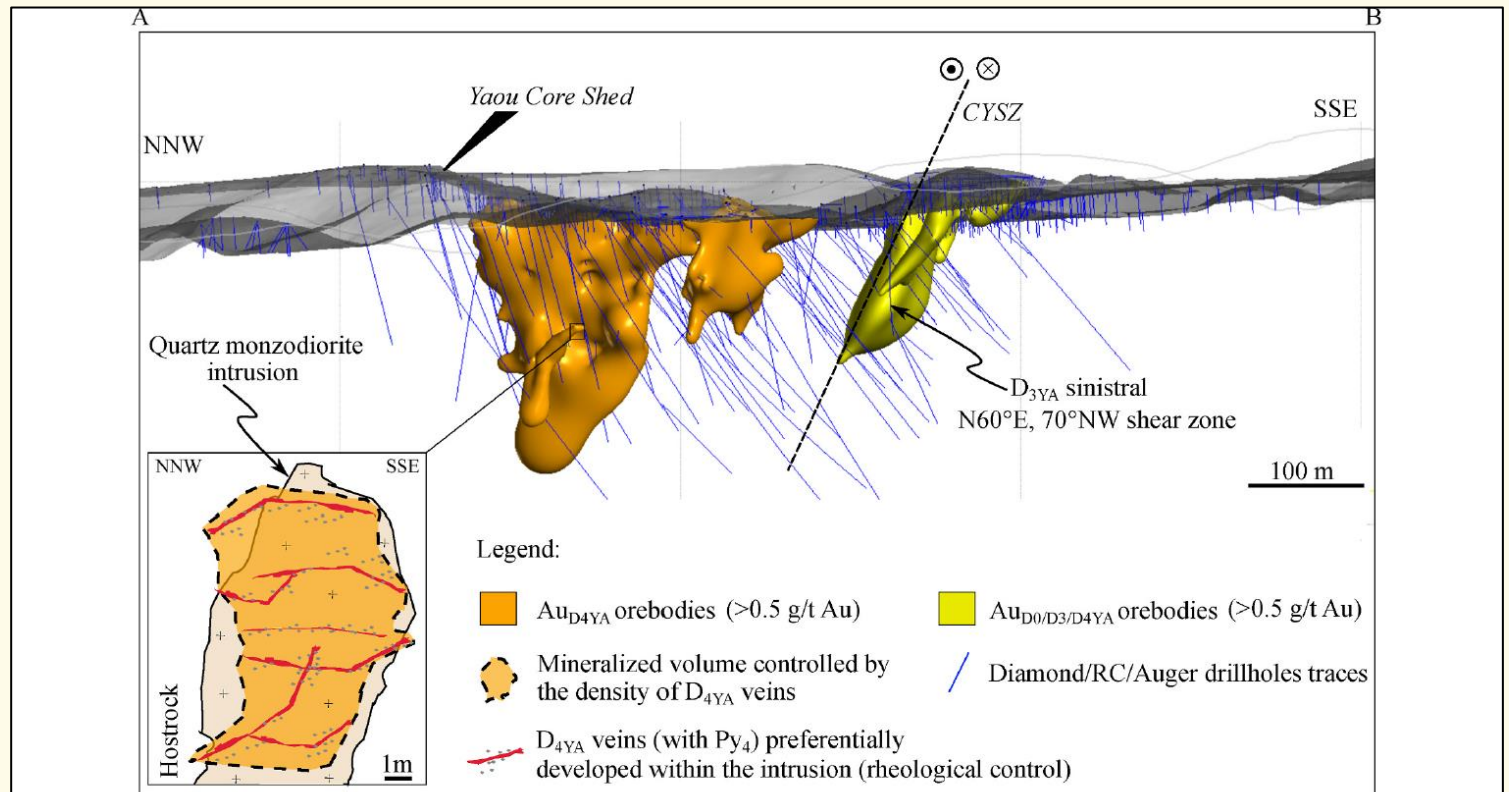


Fig. 5. Leapfrog Geo scene of the model with orebodies geometry at the camp-scale (central part of the deposit). Orebodies associated with D_{4YA} correspond to intrusive bodies envelopes. See Fig. 4 for location.



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