

Storm Lake Property Geological Assessment

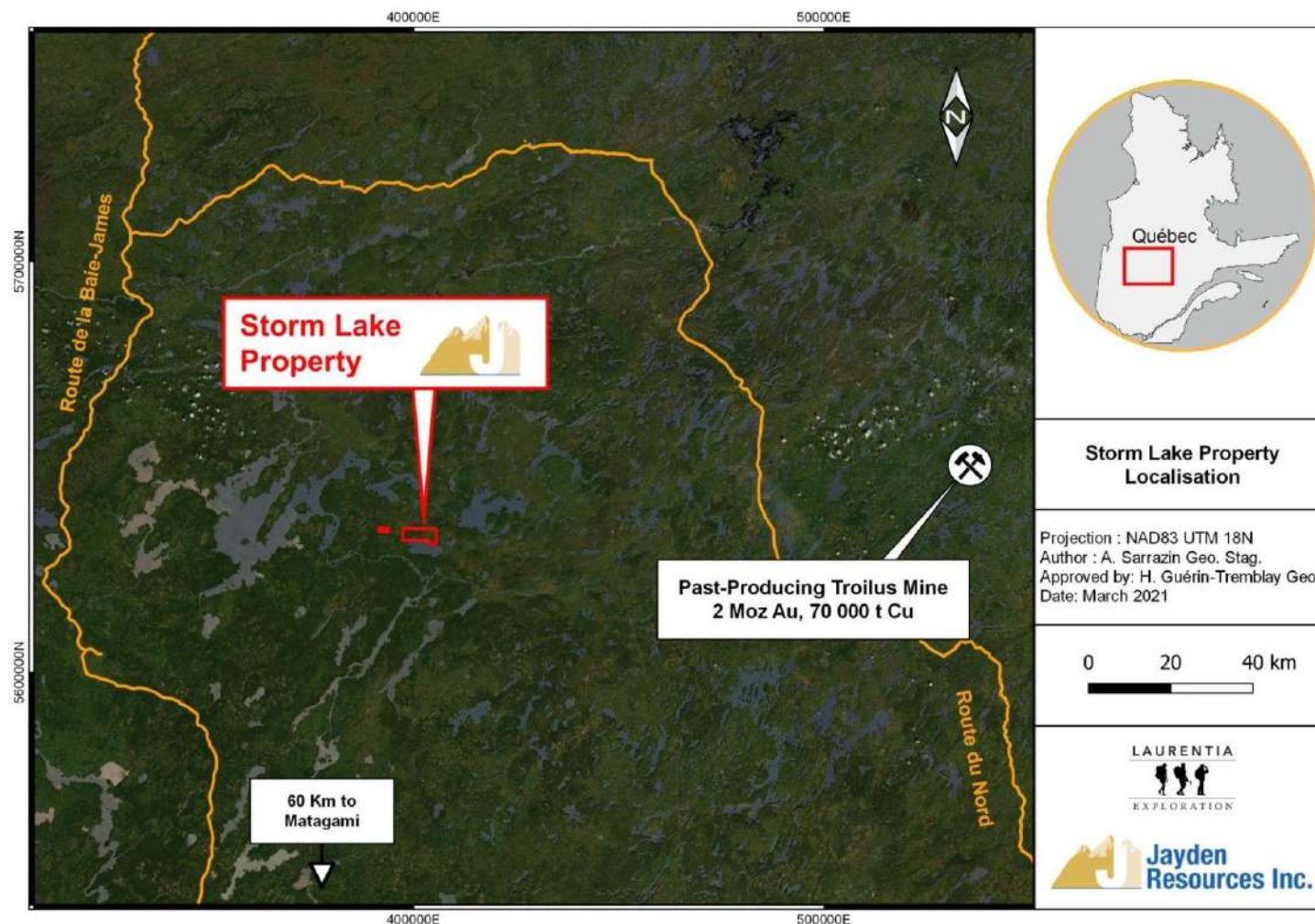
March 2021

A. Sarrazin Geo. Stag.
Laurentia Exploration Inc.

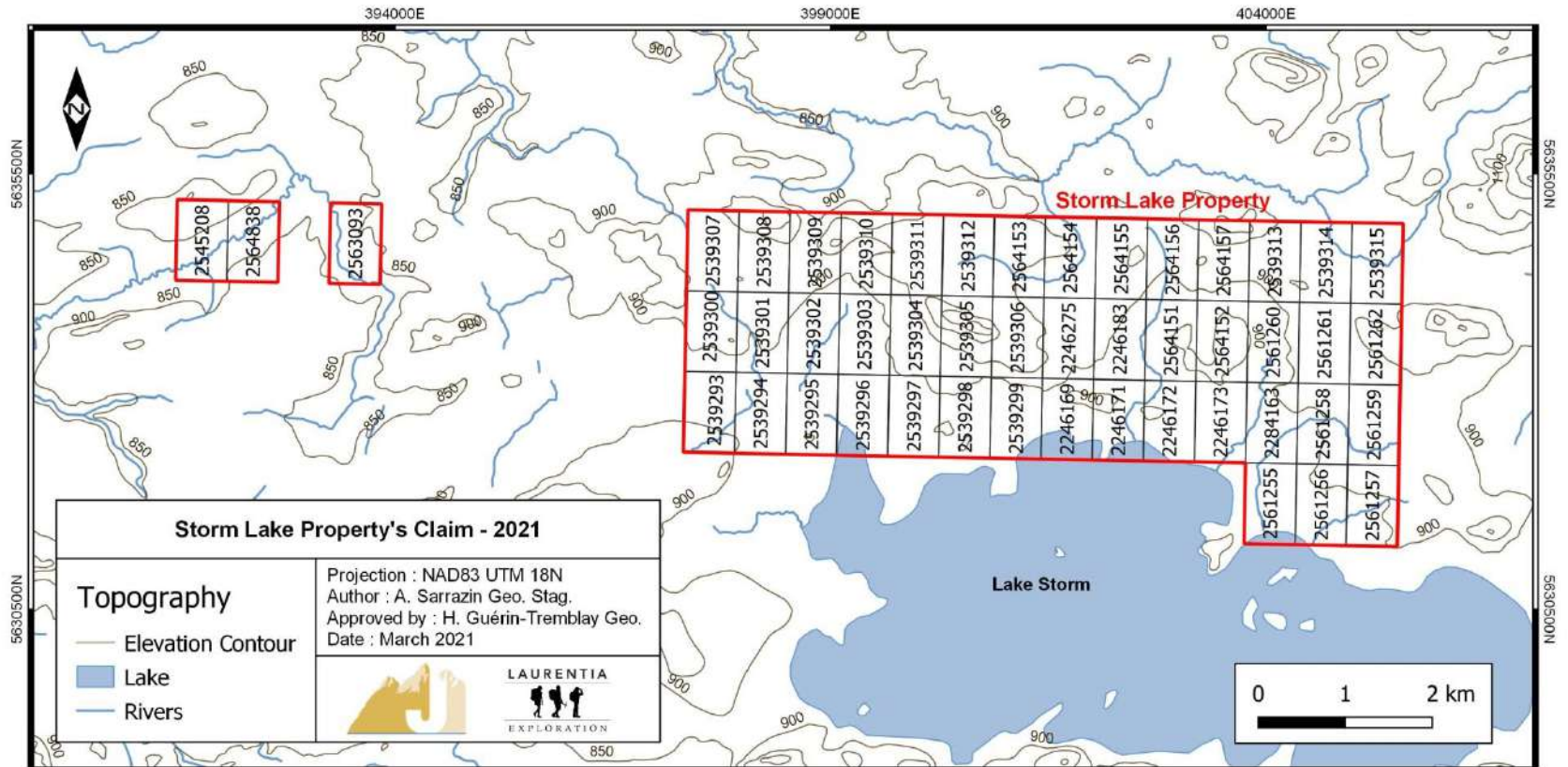
For : Jayden Ressources Inc.



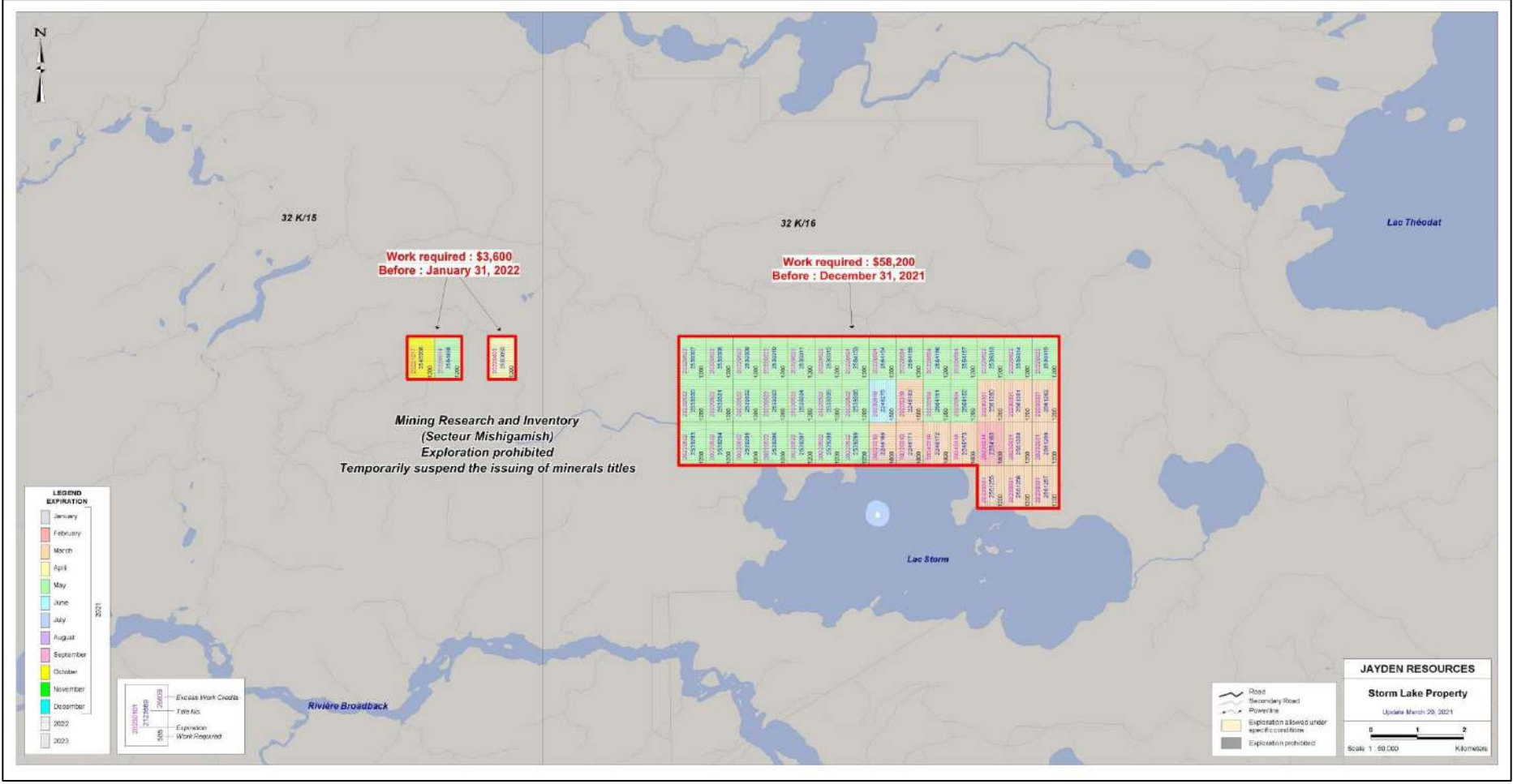
Property Localisation



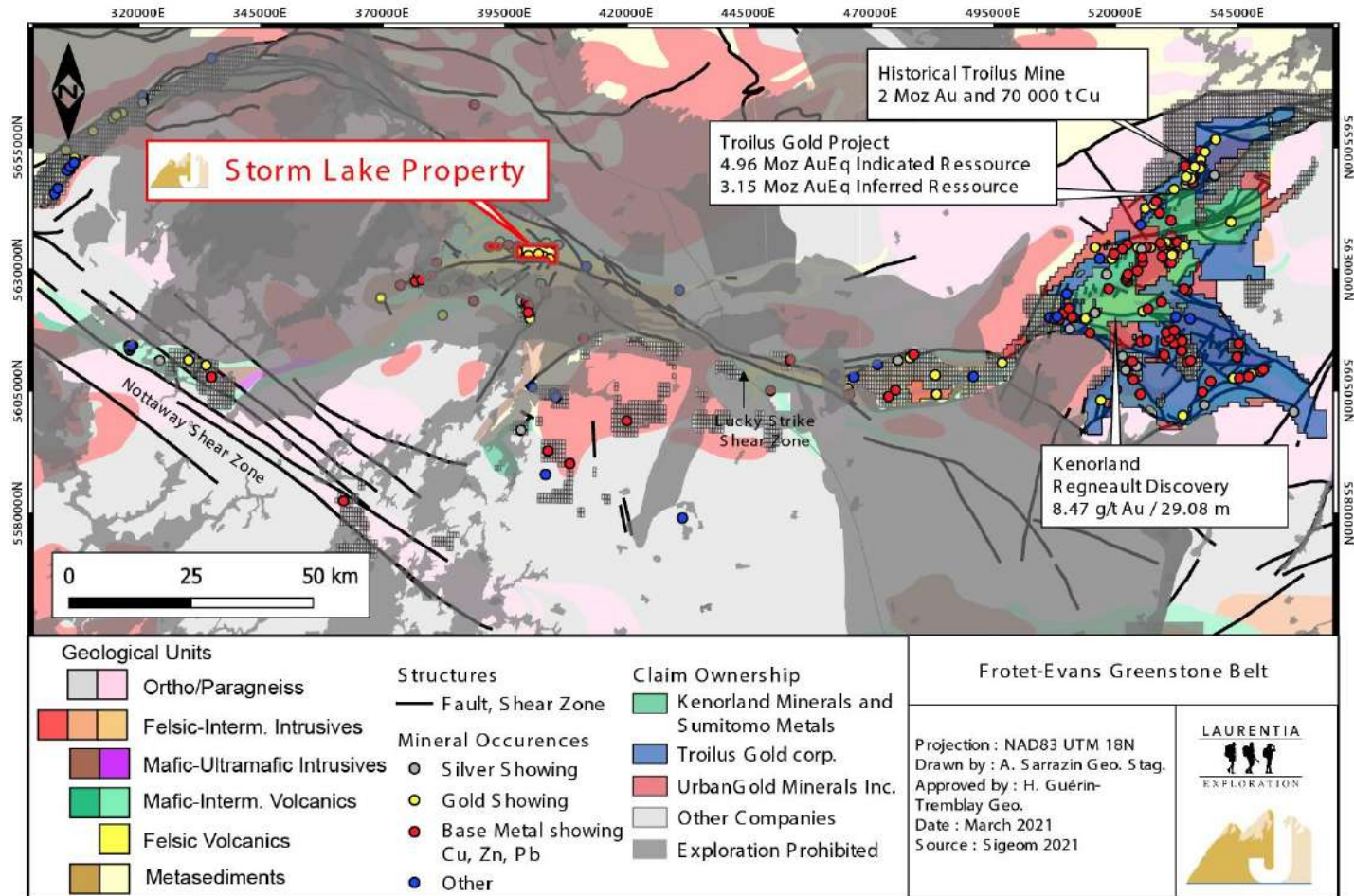
Claims



Claims Status



Surrounding Projects



One of the few available claims on the western side of the belt (Property surrounded by a zone of restricted exploration)

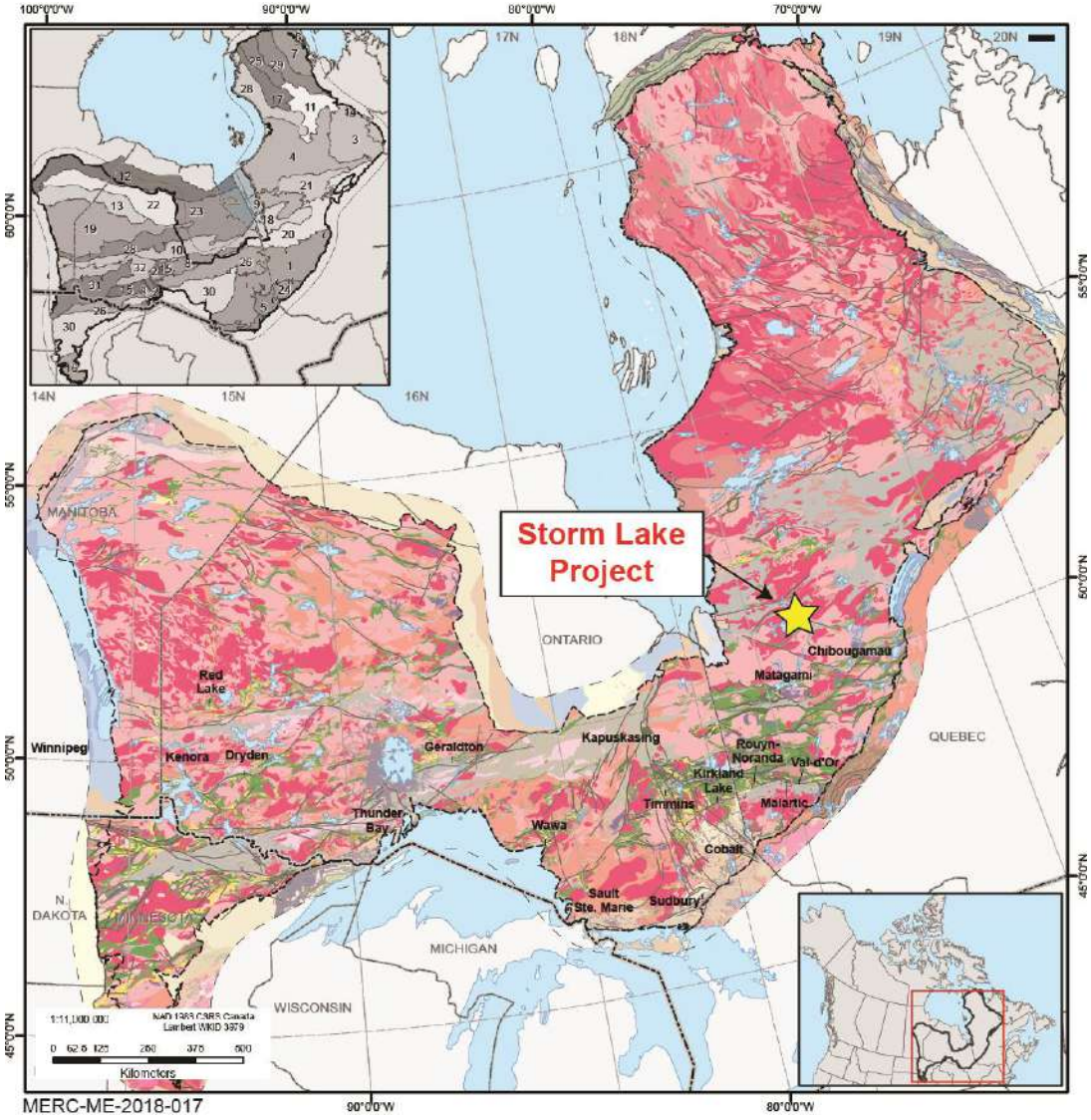


Property Overview

- 48 claims, totaling 2610 Ha
- 49 drillholes on property, totaling 9600m
- 8 Showings (7 Gold and 1 Silver)
- >10 Geophysical Survey partially covering the property (MAG, EM, IP)



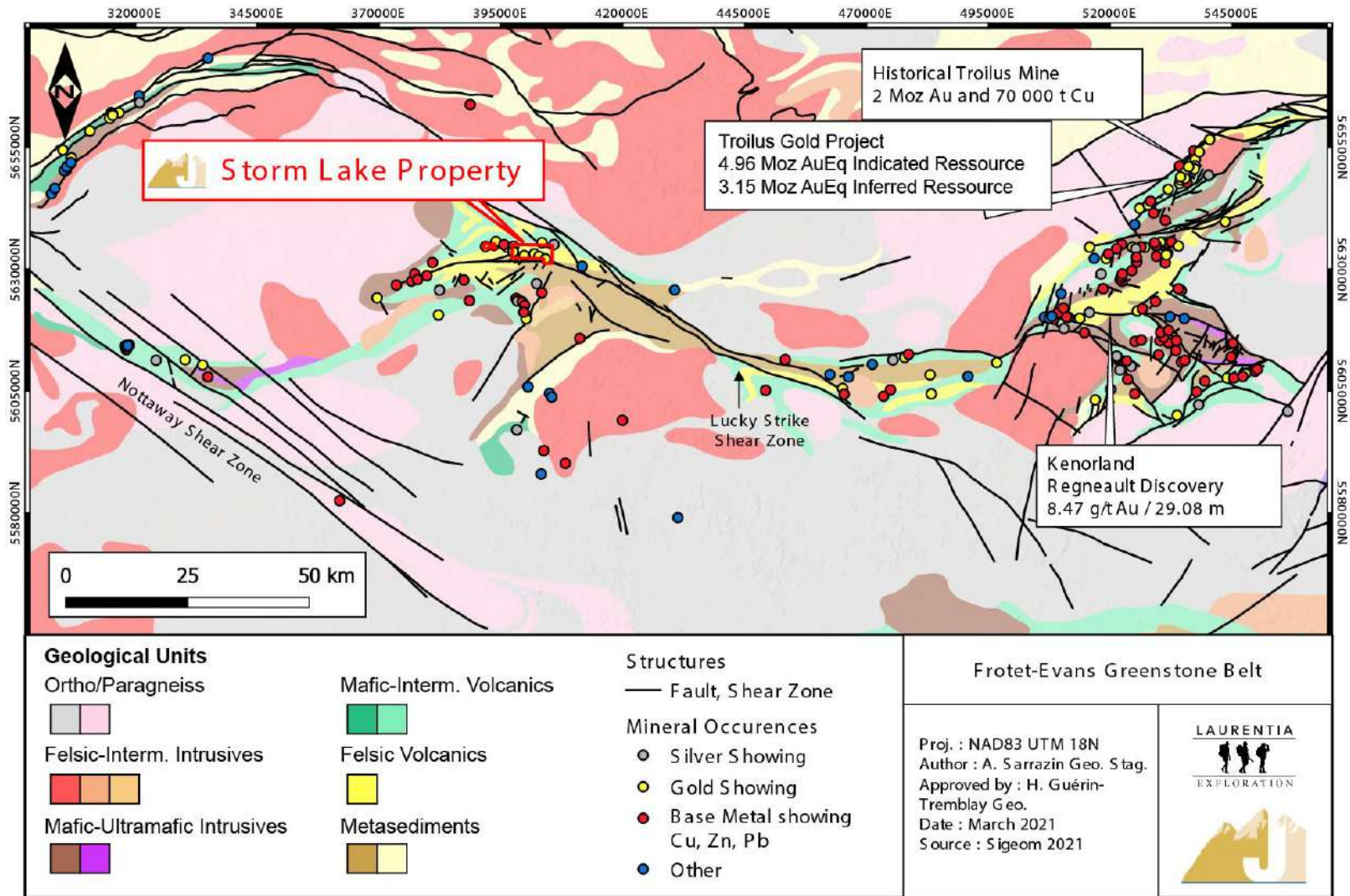
Superior Geological Province



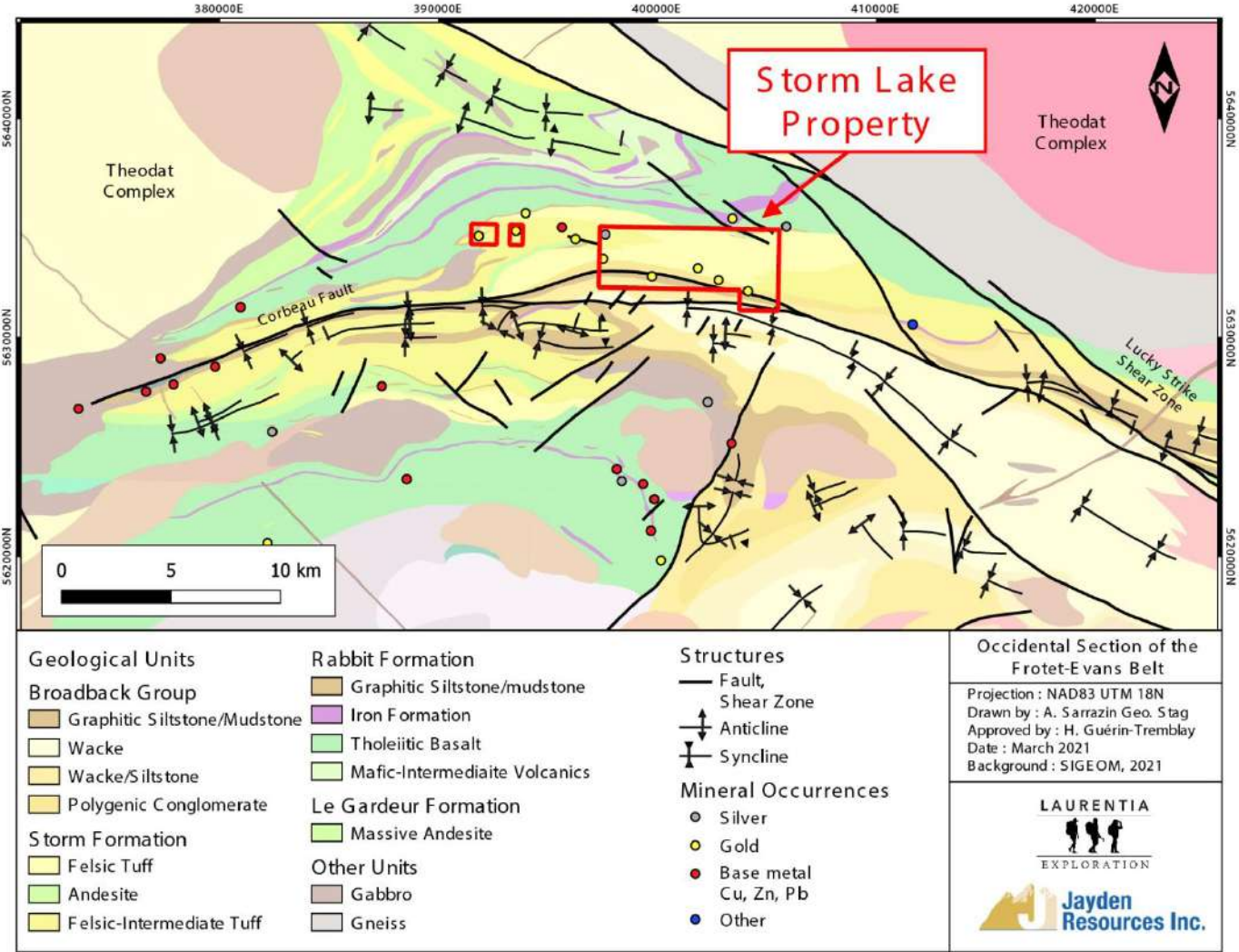
Modified from
Montsion et al.,
Mineral exploration
research center,
Laurentian University



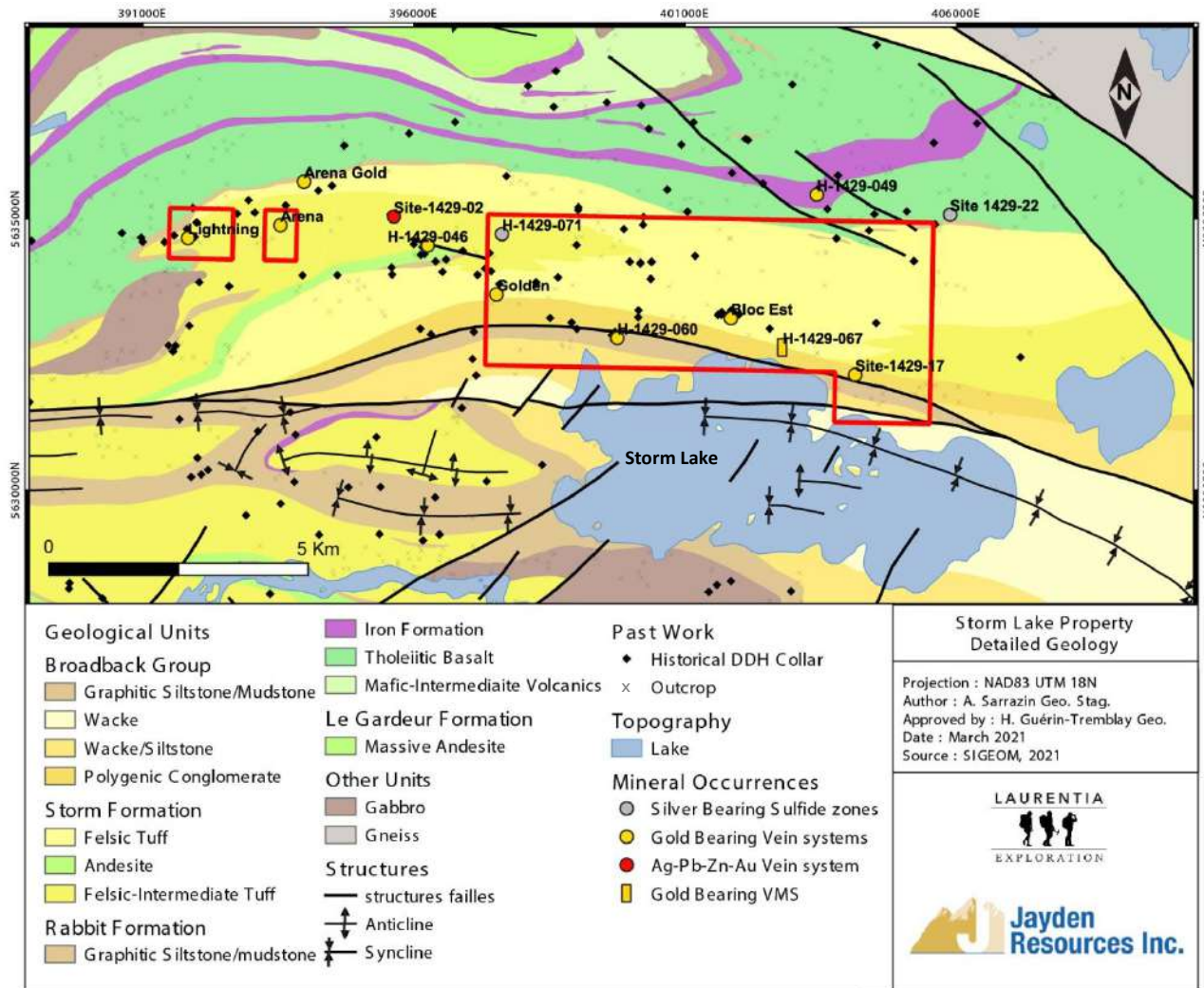
Frotet-Evans Greenstone Belt



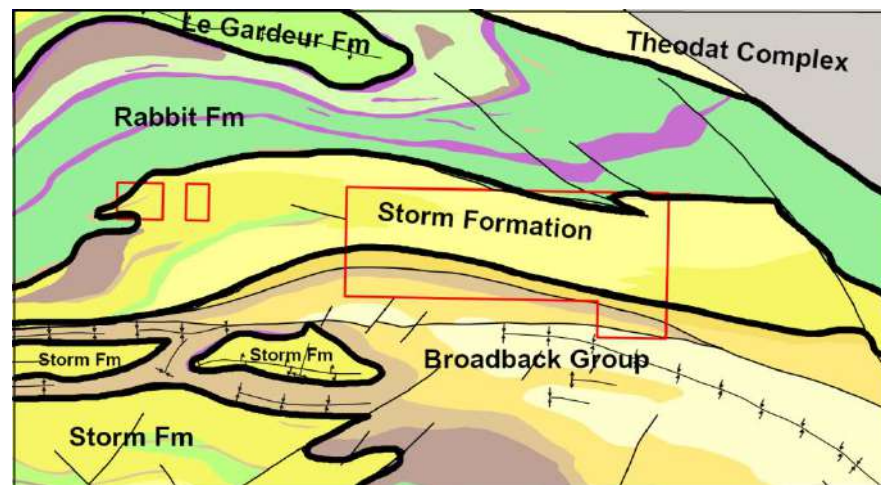
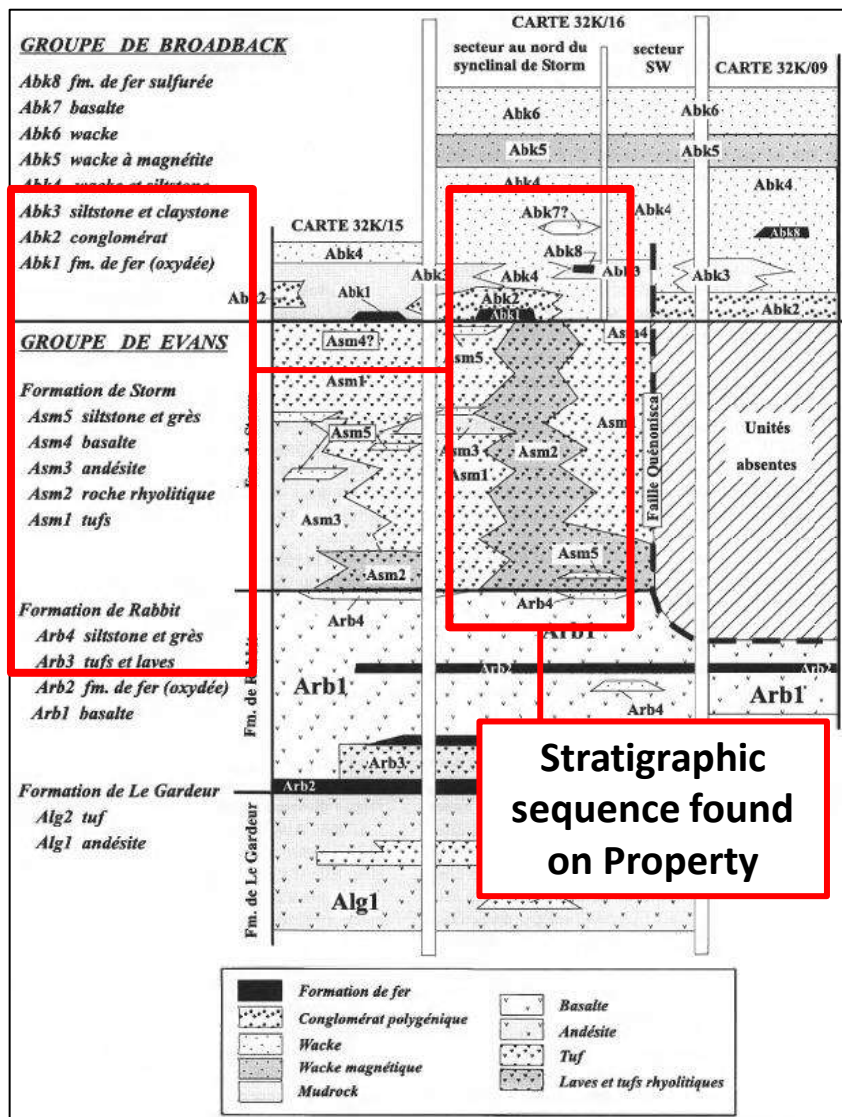
Occidental Frotet-Evans Belt



Geology of the Property



Stratigraphy



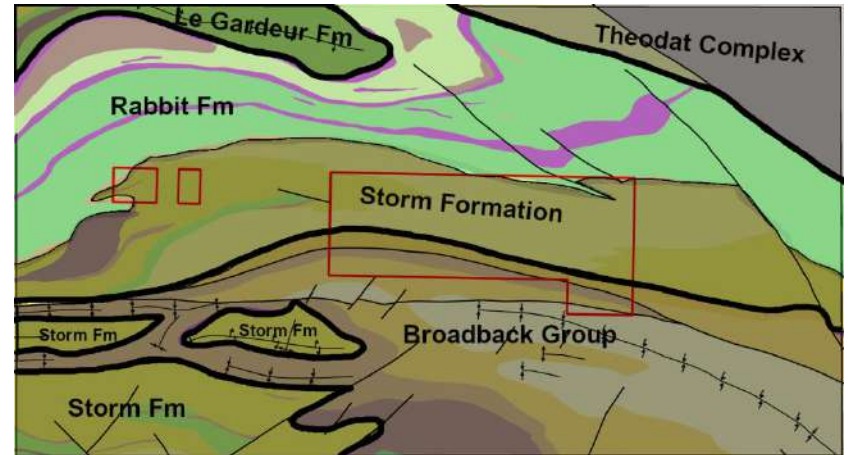
Simplified map of the property, showing the limits of the different formations and groups

From Brisson, 1998



Rabbit Formation

- Mainly Basalt (massive to pillow) and Gabbro
- Presence of iron formations (rusty, locally containing sulfides) composed of chert and laminated mudrock
- In the superior (South) Rabbit formation, thin bedding of siltstone and mudstone (locally graphitic and pyritic) associated to conglomerate horizons or felsic-intermediate volcanics lentils. One tuff sample was dated 2758+/-4 Ma (David, 2018)

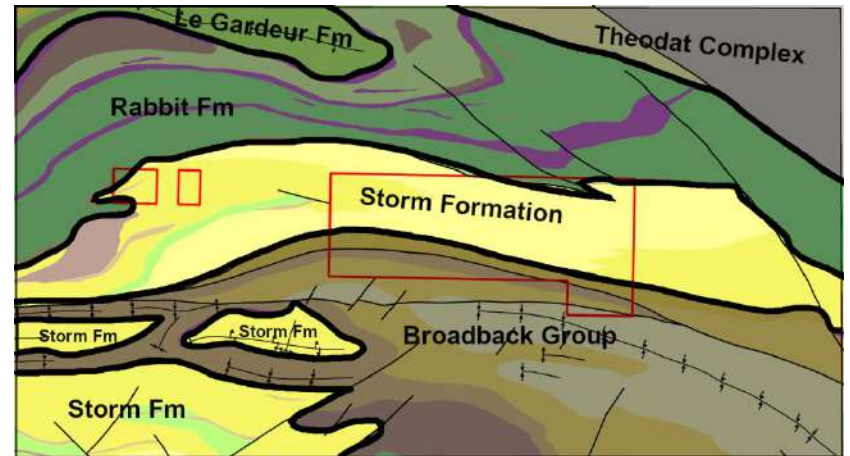


Simplified map of the property, showing the Rabbit Formation



Storm Formation

- Dominated by well bedded Felsic pyroclastics, locally containing rhyolitic flows and rhyolitic breccia
- Presence of a few local Mafic-intermediate volcanic horizons and a few siltstone/sandstone lentils
- Base of formation (Contact with Rabbit) marked by siltstone and sandstone horizons
- Summit of formation (Contact with Broadback group) marked by basalt/gabbro sill or by iron formations
- A rhyodacite unit was dated 2755,5+/- 0,9 Ma (Bandyayera and Sharma, 2001)
- Typical VMS alteration locally

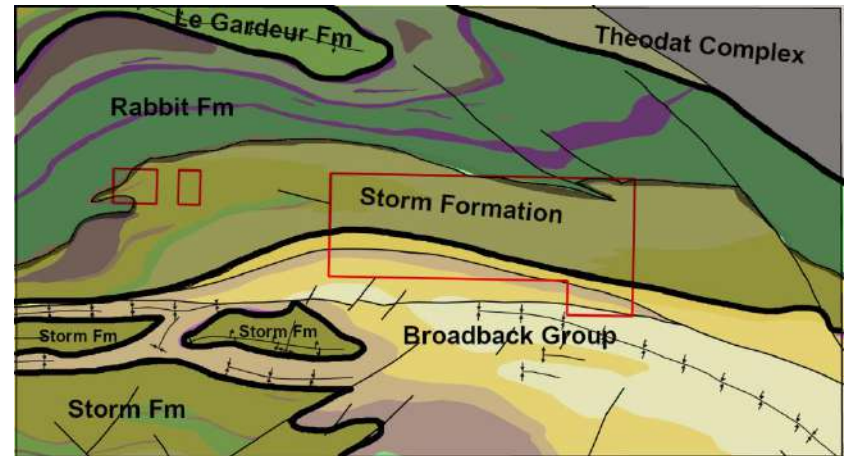


Simplified map of the property, showing the Storm Formation



Broadback Group

- Base of group is composed of polygenic conglomerate, whose clasts originate from the Evans group (Le gardeur Fm, Rabbit Fm, Storm Fm)
- Rest of group composed of Wacke, siltstone, mudrock or sandstone
- Wacke and Sandstone may contain up to 30% cordierite porphyroblasts
- Mudrock unit is pyritic, graphitic and may contains Cordirierite-andalousite-garnet porphyroblasts



Simplified map of the property, showing Broadback Group



Structures

4 deformation events

D1 : S1 rarely visible, comes from early burying of supracrustal rocks

D2 : Major deformation. N-S shortening, visible schistosity (S2) marked by micas and amphiboles. P2 folds axis are E-W. Major E-W faults (ie. Corbeau) are suspected to be associated to D1-D2

D3 : Tight N-S isoclinal folds. Rarely seen on the property

D4 : Nottaway and lucky strike shear zones. Dextral movement associated to shear and mylonite. Corridors can be up to 5 Km wide and 20-50 Km long



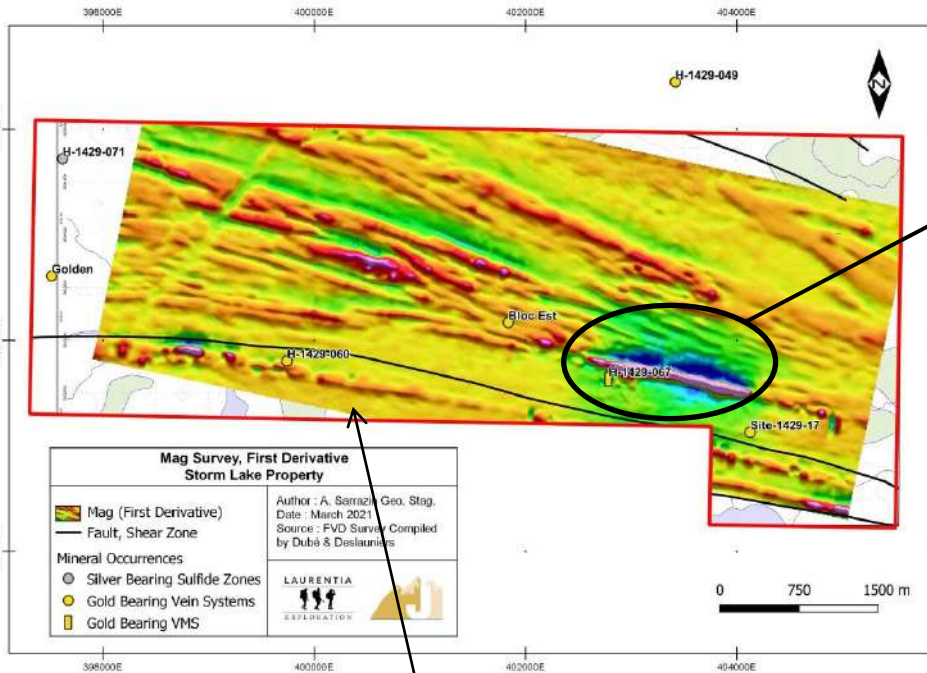
Geophysical Surveys

Multiple Geophysical surveys partially covering the property, notably :

- 1986-87** Air DIGHEM
- 1986-87** IP Survey
- 1988** Ground Mag and EM MaxMin
- 2005** Ground Mag
- 2013** Heliborne High Res. Mag

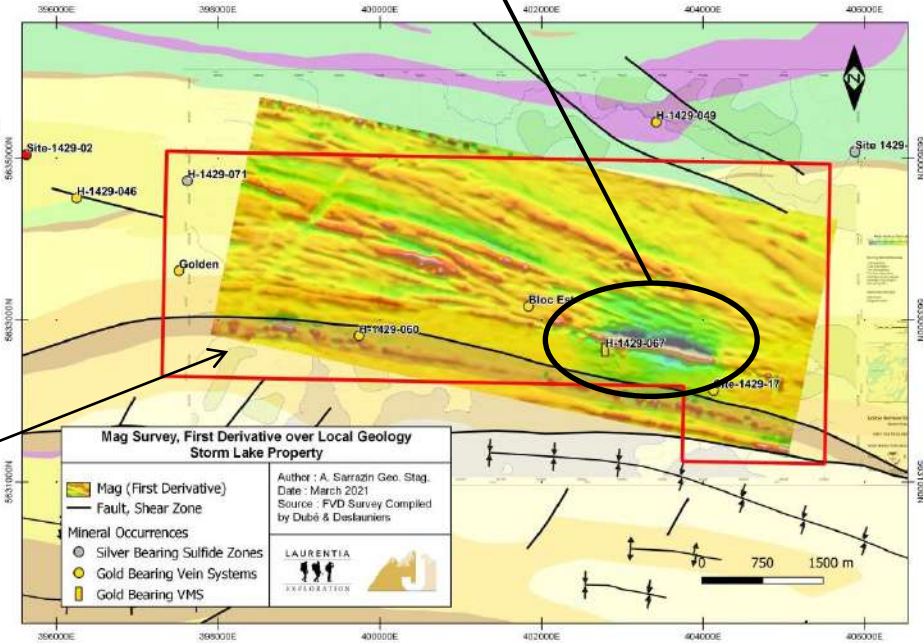


Heli-Mag Survey 2013

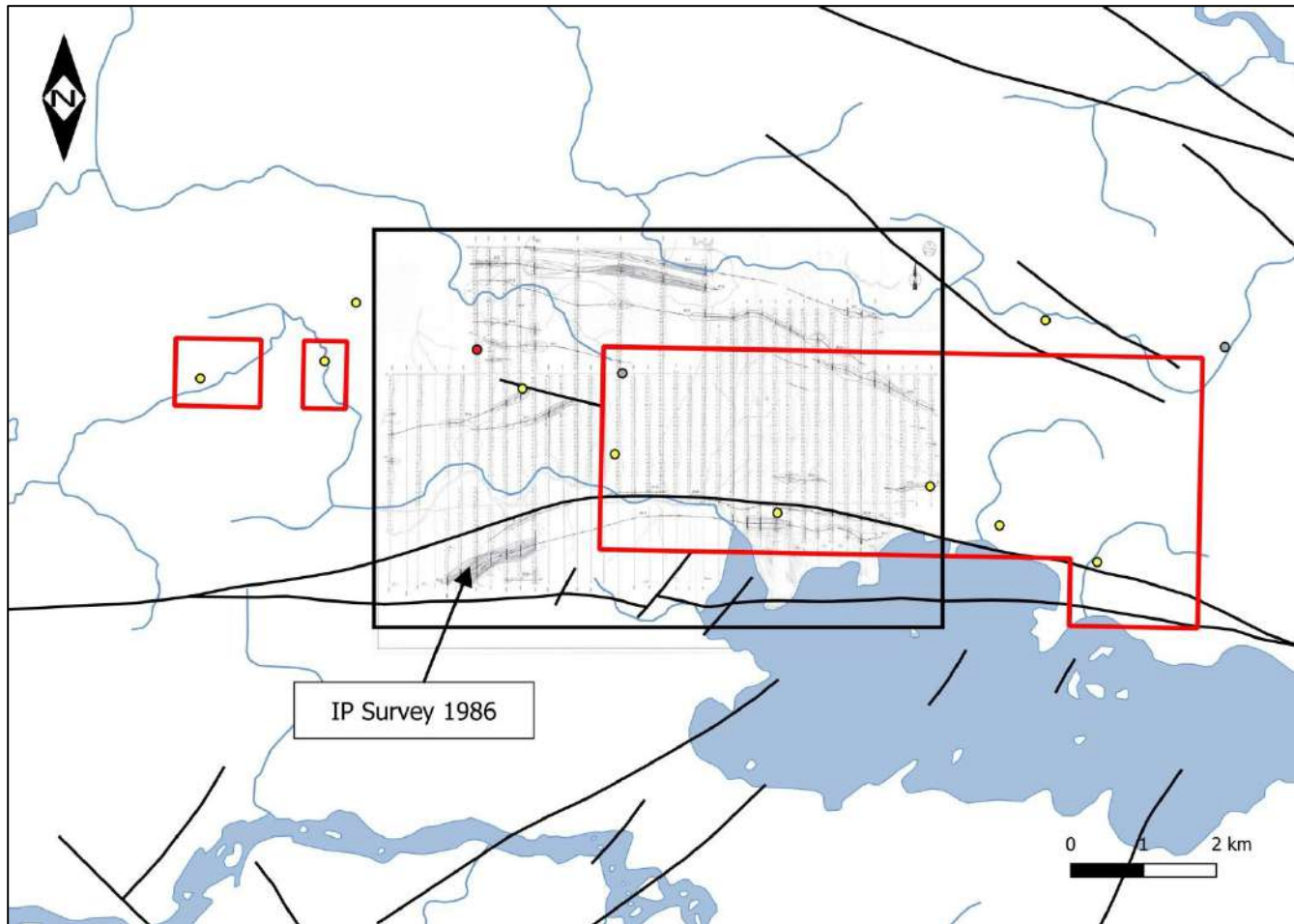


Strong magnetic anomaly near a known VMS showing
H-1429-067 : 1,58 g/t Au over 1,5 m
 (20% pyrite, 10% pyrrhotite, 5% arsenopyrite)

Southern most magnetic lineation is explained by a thin unit of graphitic and pyritic siltstone



IP Surveys (1986-87)

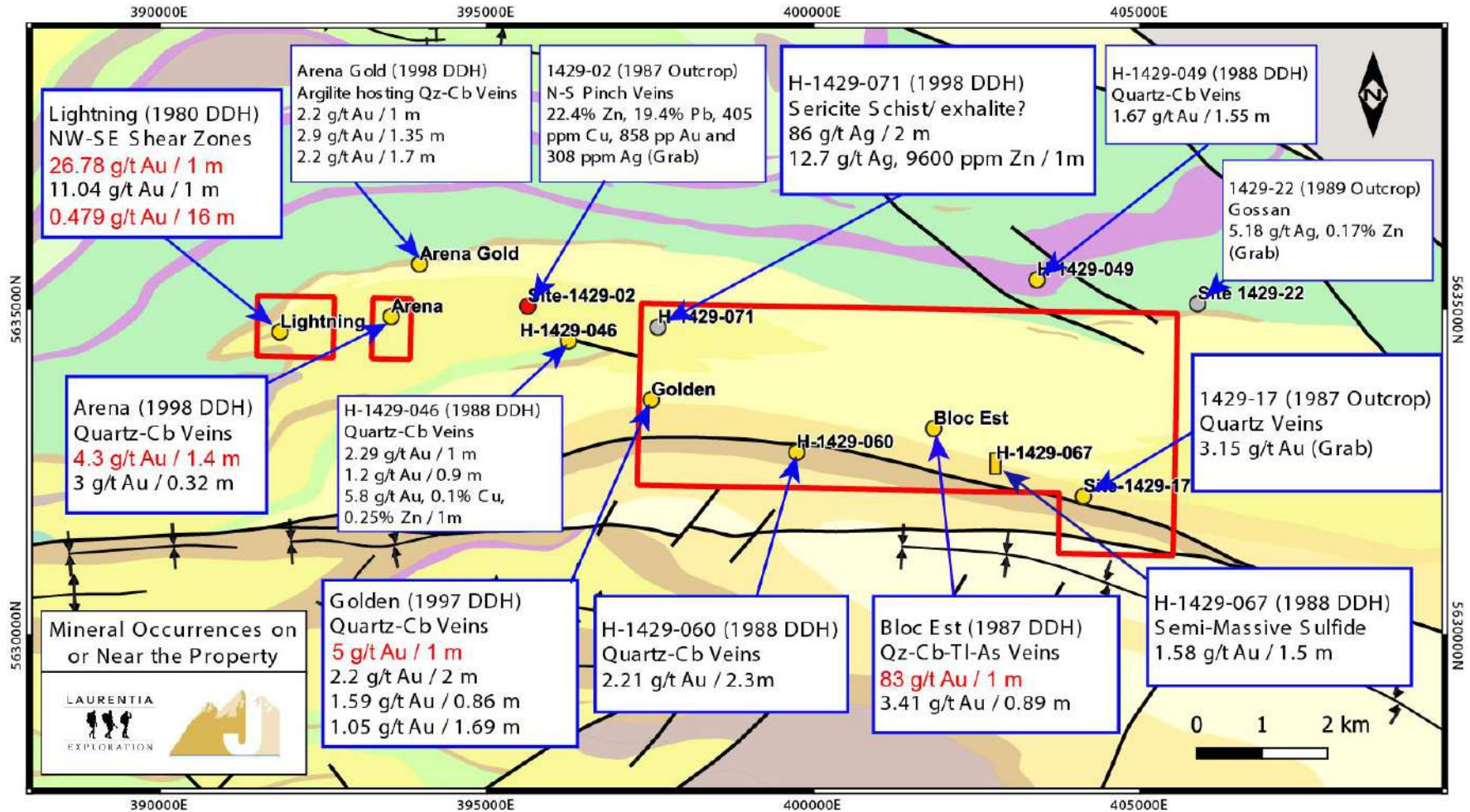


The 1987 IP Survey covers a much smaller area and georeferencing is hard due to poor quality maps

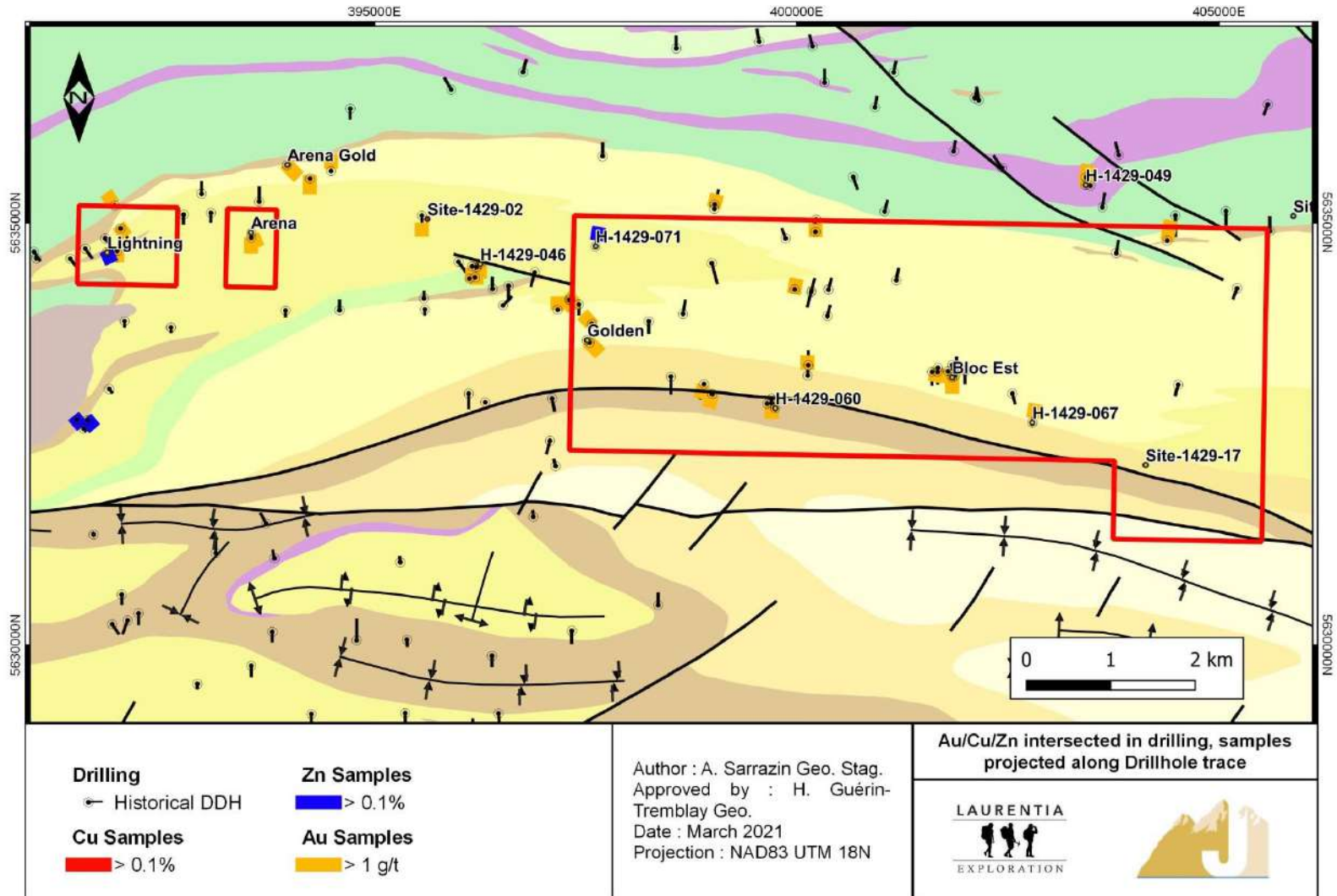
Source GM45325



Showings



Distribution of Au/Cu/Zn in Drilling

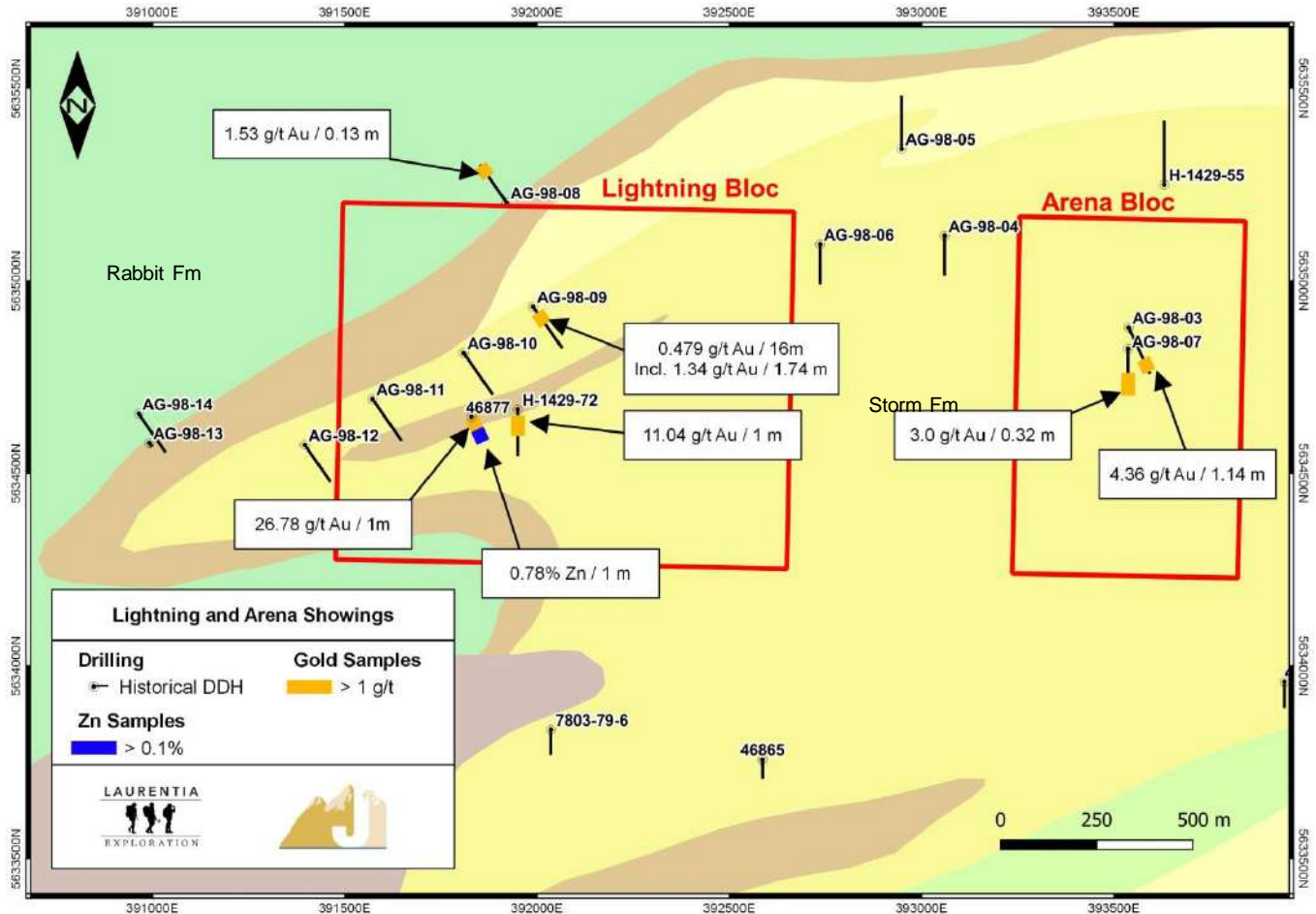


Lightning & Arena Showings

AG98-09 : 0,48 g/t Au / 16 m in a « Grey intrusive rock », in contact with a pyritic siltstone horizon

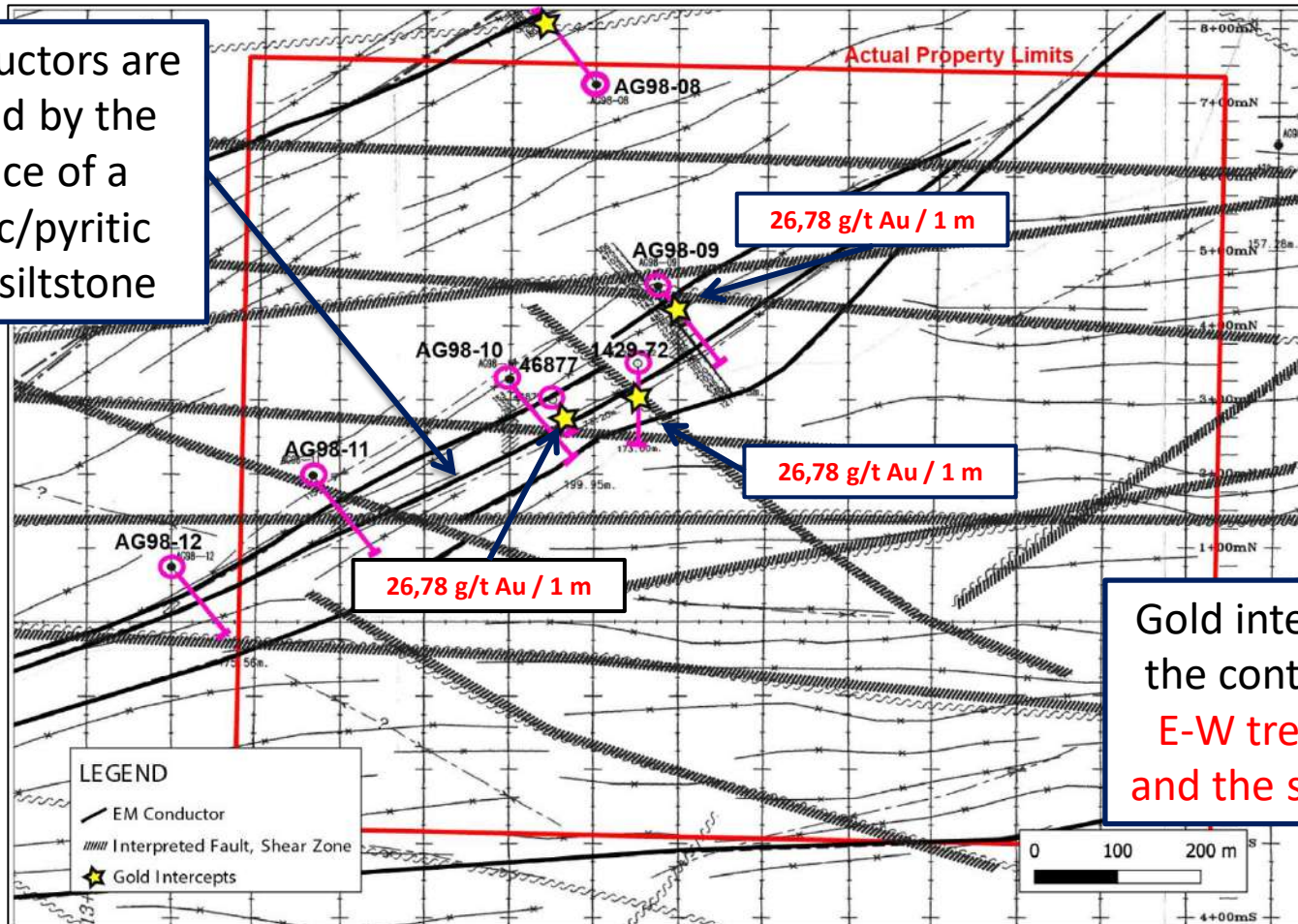
46877 : 26,78 g/t Au / 1 m, contact between Siltstone horizon and Andesite.

1429-72 : 11,04 g/t Au / 1 m in a pyritic argillite horizon



Lightning Bloc Structural Map

EM Conductors are explained by the presence of a graphitic/pyritic layer of siltstone



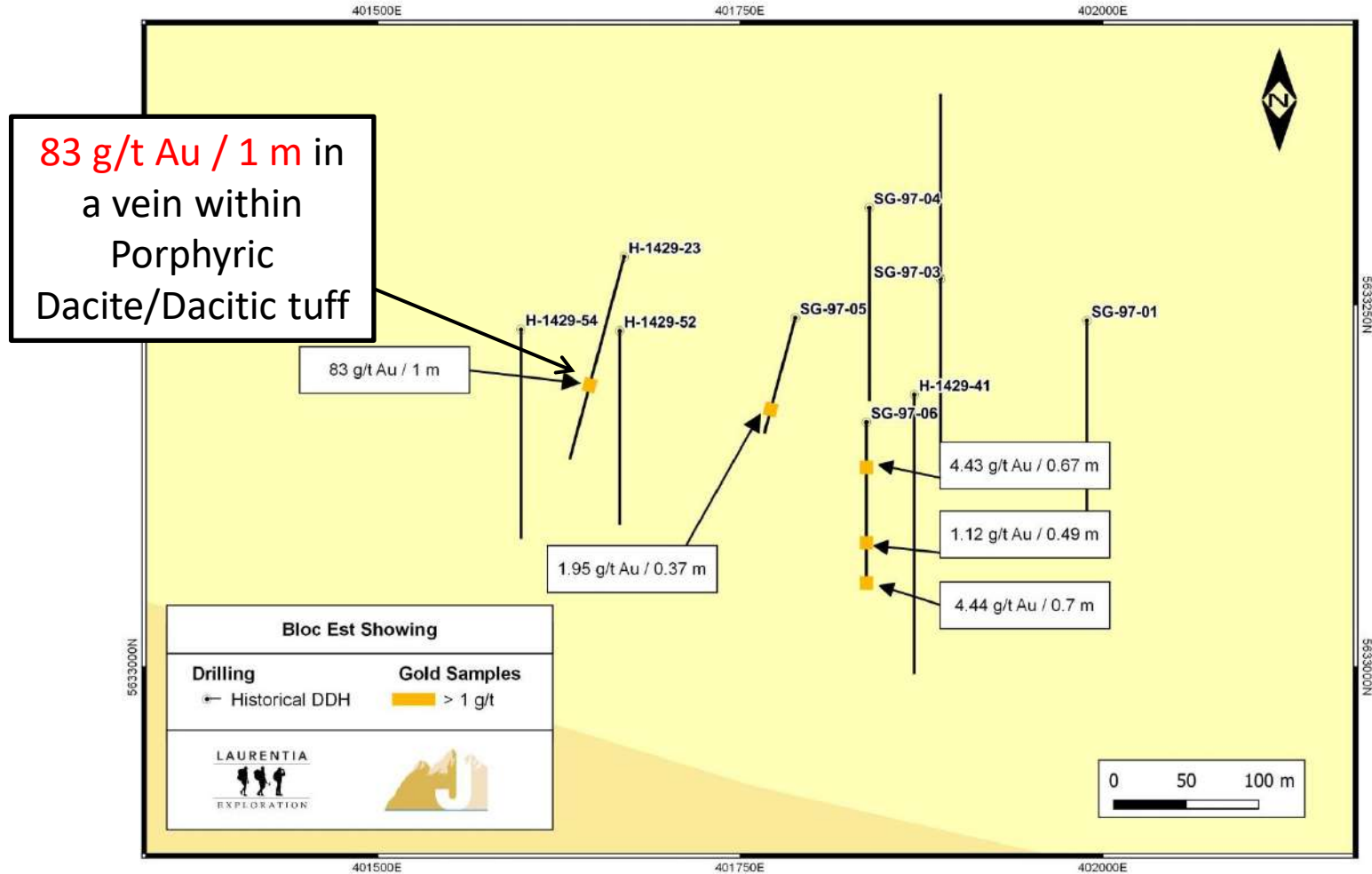
Gold intercepts are at the contact between E-W trending faults and the siltstone layer

Modified from Melchiorre, 1998 (GM56505)

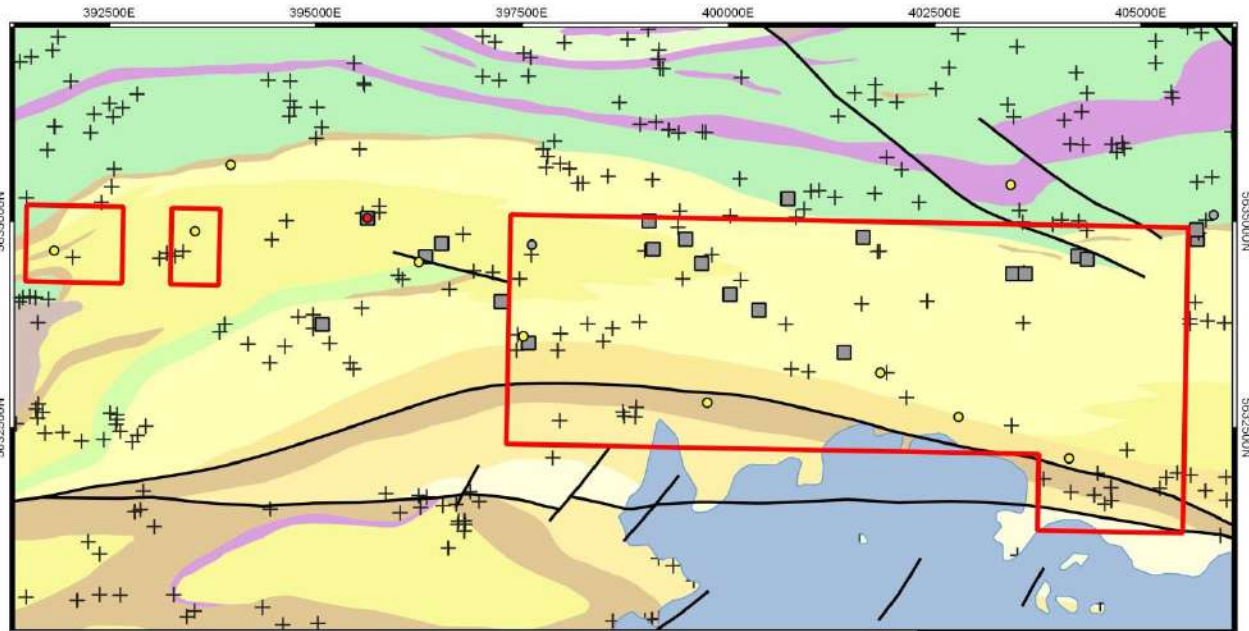
Location of holes 46877 and 1429-72 is different than SIGEOM, the collar coordinates must be confirmed on site



Bloc Est Showing



Prospection/mapping work



Multiple Stripped outcrop, all done in 1996 by Cominco (G.L. Géoservices/IOS)

Geological Units Broadback Group Graphitic Siltstone/Mudstone Wacke Wacke/Siltstone Polygenic Conglomerate Storm Formation Felsic Tuff Andesite Felsic-Intermediate Tuff		Rabbit Formation Graphitic Siltstone/mudstone Iron Formation Tholeiitic Basalt Mafic-Intermediate Volcanics Le Gardeur Formation Massive Andesite Structures Fault, Shear Zone		Past Work Stripped Outcrop Outcrop Topography Lake Mineral Occurrences Silver Showing Gold Showing Base Metal Showing Cu, Zn, Pb		Storm Lake Property Detailed Geology Projection : NAD83 UTM 18N Drawn by : A. Sarrazin Geo. Stag. Approved by : H. Guérin-Tremblay Geo. Date : March 2021 Source : SIGEOM, 2021



Last Field Work on Property : 2005

Work done by *Beaufield Consolidated Resources*

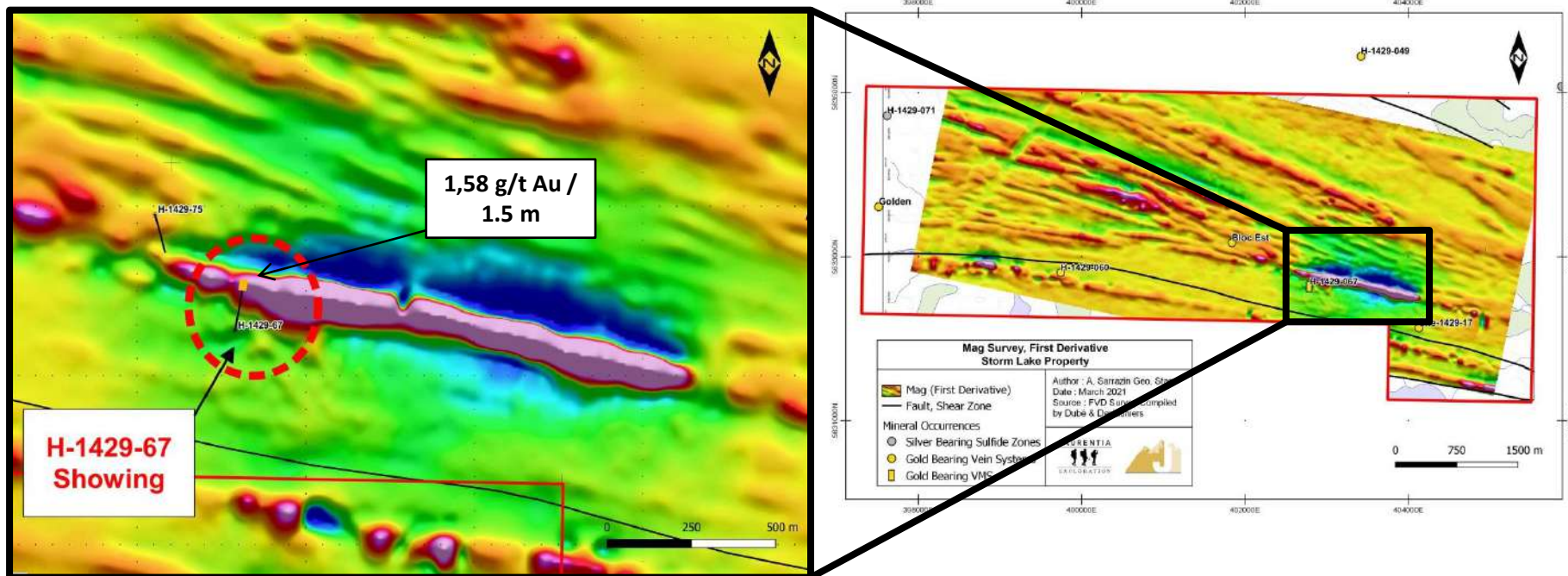
Only **7 Days** of prospection. Sparse outcrop

Some altered and veined zones were found

Best sample returned 0,371 g/t Au (Grab)



Target A : Testing the High Mag Anomaly

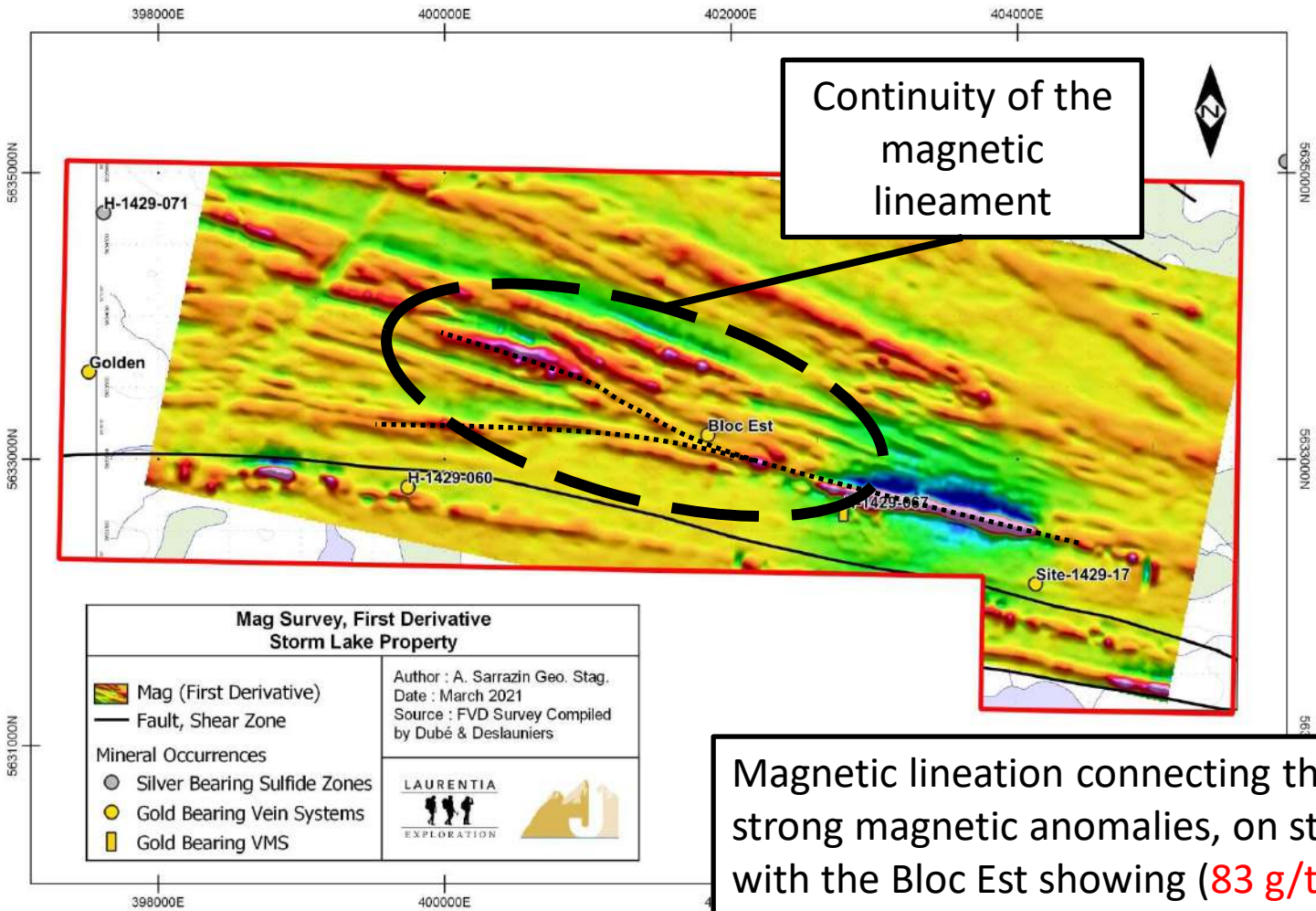


High priority target : Contact between Storm Formation/Broadback Group

Multiple gold showing along the contact and one large, **barely drilled**, magnetic anomaly



Target B : Bloc Est Extension/Mag lineation



Magnetic lineation connecting the 2 strong magnetic anomalies, on strike with the Bloc Est showing (83 g/t Au / 1m)



Target C : Lightning Showing Extension

