Metsäkylä

Occurence type: occurrence

Commodity	Rank	Total measure	Total production	Total resource	Importance
gold	1	NA	NA	NA	NA

Easting EUREF: 312074,08
Northing EUREF: 6830624,604
Easting YKJ: 3312168
Northing YKJ: 6833491

Discovery year: 2000
Discovered by: Geological Survey of Finland
Province: Tampere (Au, Cu)
Comments: Glacial erratics and outcrops found by an amateur prospector led to the discovery of the mineralisation.
References: 1, 2, 3, 4

Mineral deposit type

Group: Metallogenic deposit
Main type: Orogenic (metamorphic hydrothermal)
References: 2

Dimension

Expression: exposed
Form: discordant
Shape: NA
Length (m): 800
Width (m): 20
Thickness (m): NA
Depth (m): 70
Area (ha): NA
Dip azim: 315
Dip: 80
Plunge azim: NA
Plunge dip: NA
Orientation method: NA
Dimension comments: The main zone is about 20 m wide, along strike >800 m long, dips to the NW, open at both ends and at the depth of 70 m.

Holder history

Previous holders:

Company	Years	Holding type	Comments
NewPeak Finland Oy	2020	Exploration permit	NA
Sotkamo Silver Oy	2016-2020	Exploration permit	NA
Geological Survey of Finland	1997	NA	NA

EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
2000-2002	core drilling	P. Rosenberg, T. Lehto	NA	2, 3, 4
	Core drilling (reconnaissance drilling): 12 diamond-drill holes, total 1113.			
	Intersections			
	HoleID	M52/2123/-97/R390		
	From-To	NA		
	Length	1m		
	gold	27,6ppm		
	HoleID	M52/2123/-97/R391		
	From-To	NA		
	Length	1m		
	gold	2ppm		

1997-2003	regional geochemistry	P. Rosenberg, T. Lehto	NA	2
	A distinct Au anomaly in till.			

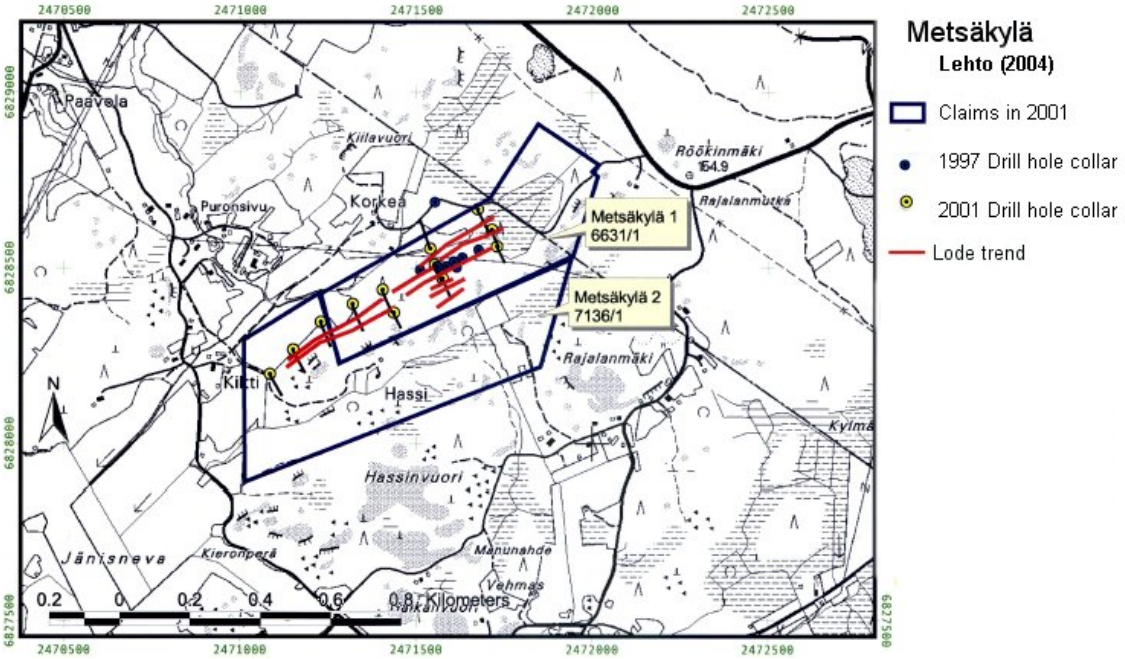
1997-2003	detailed geophysics	P. Rosenberg, T. Lehto	NA	4
	The main mineralised zone appears to be parallel but slightly offset of a distinct IP anomaly.			

1997-2003	detailed geology	P. Rosenberg, T. Lehto	NA	1, 2, 3, 4
	The first indications were auriferous glacial erratics and outcrops found by an amateur prospector, this was followed by the discovery of mineralisation in outcrop.			

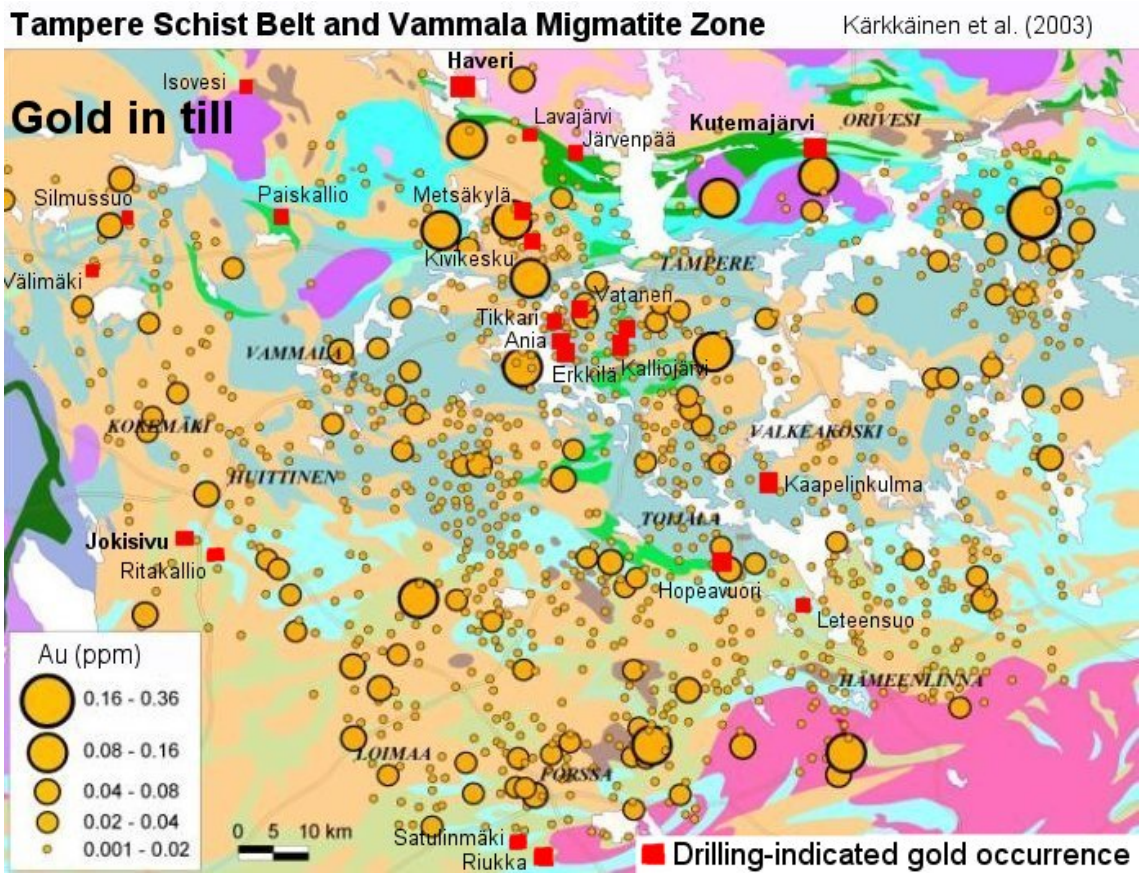
1997-2003	percussion drilling	P. Rosenberg, T. Lehto	NA	1, 2, 3, 4

1977-1977	regional geophysics	NA	key geological features	
	Low-altitude airborne magnetic, electromagnetic and radiometric survey			

Figures



Secondary anomaly:



GEOLOGY

Host rock: Quartz vein, Plagioclase porphyrite

Quartz vein (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 1, 2, 4
Comments: Quartz and carbonate veins in the porphyry, quartz-tourmaline veins

Plagioclase porphyrite (Host rock)

Rock type: Host rock
Proportion: major
Grain size: NA
Color: Red
References: 1, 2, 3, 4
Comments: The host is a red porphyry of volcanic origin.

Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	major	
Chalcopyrite	major	
Gold	minor	
	Free gold grains up to 5 mm in diameter.	
Pyrite	major	

Other minerals:

Mineral	Proportion	Mineral texture
Plagioclase	present	
Quartz	present	

Structures
Sheared

Textures
Porphyritic

Alteration:	Distribution:	Degree:	Relation to mineralization:
sulphidation	NA	NA	NA
silicification	Veins	NA	NA

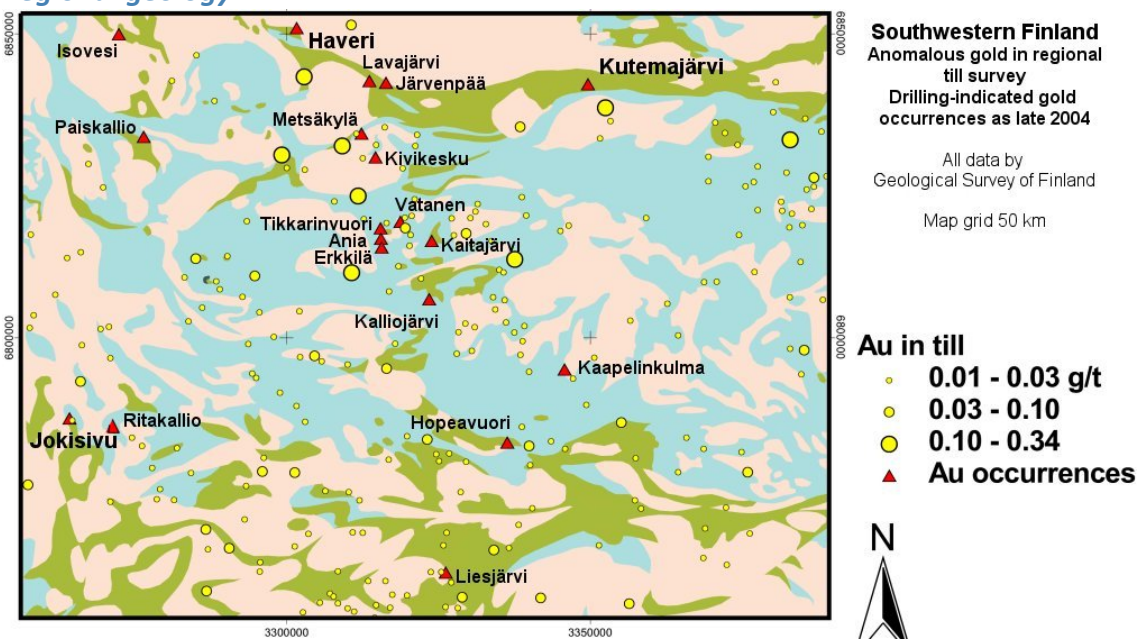
Metamorphic description:

Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)

Regional	amphibolite metamorphic facies	medium metamorphic grade	NA

Figures

Regional geology:

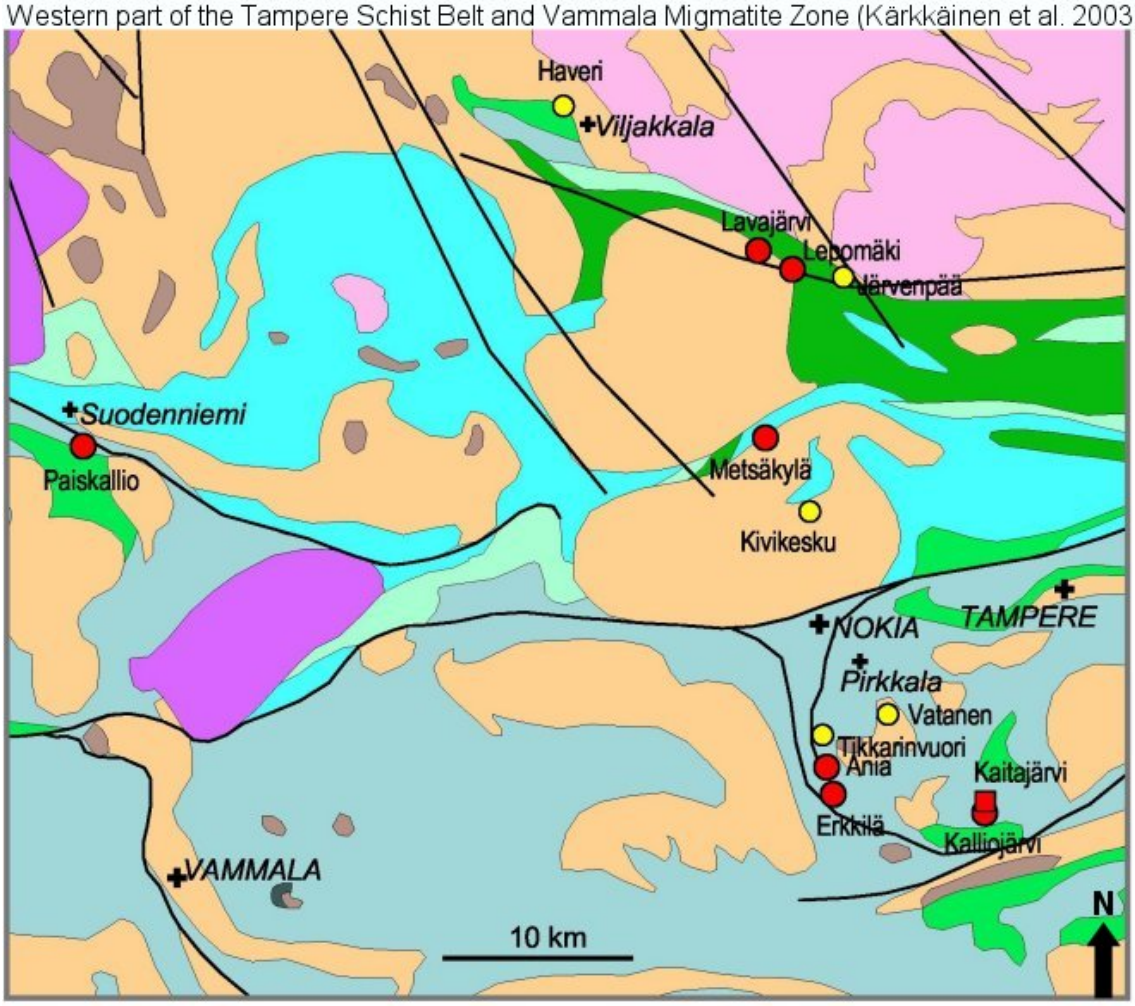


Vein:

Quartz veins in plagioclase porphyry.
Metsäkylä. Field of view 20 cm.Rosenberg (2000)

Regional geology:

Western part of the Tampere Schist Belt and Vammala Migmatite Zone (Kärkkäinen et al. 2003)



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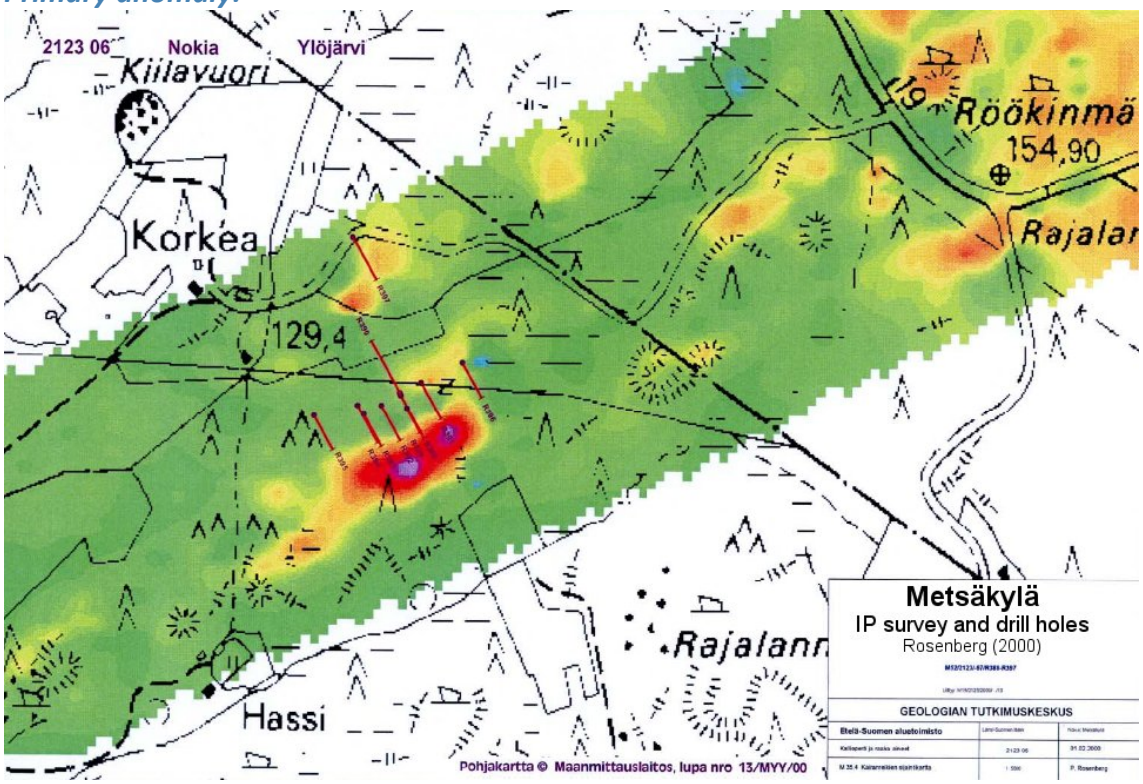

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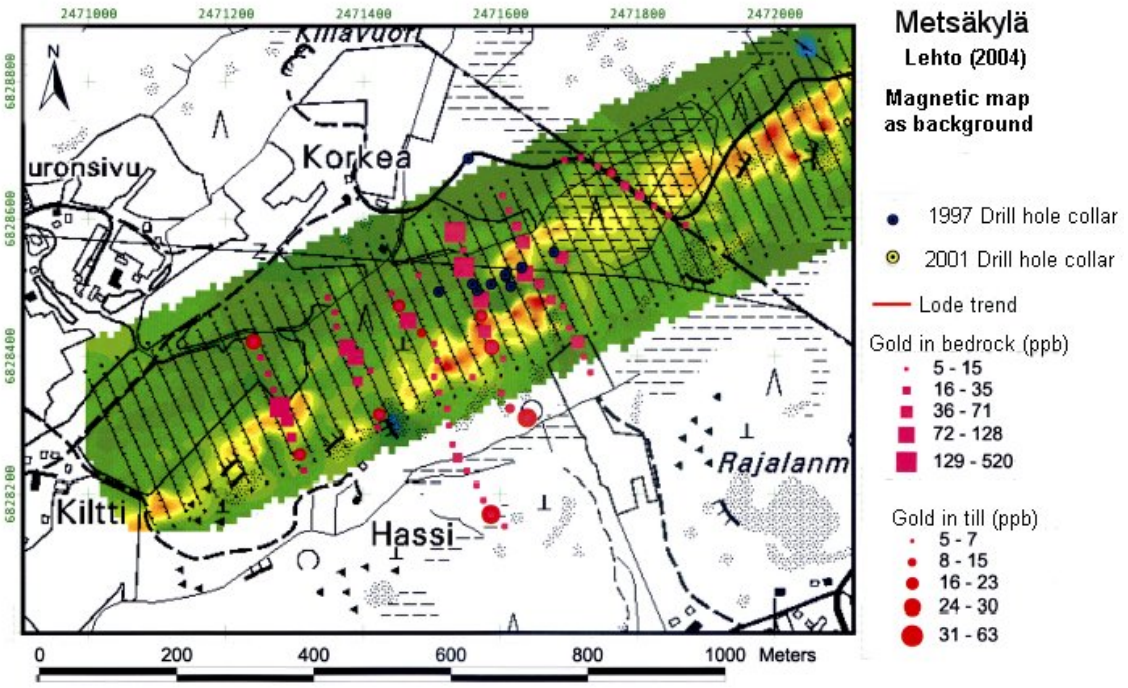

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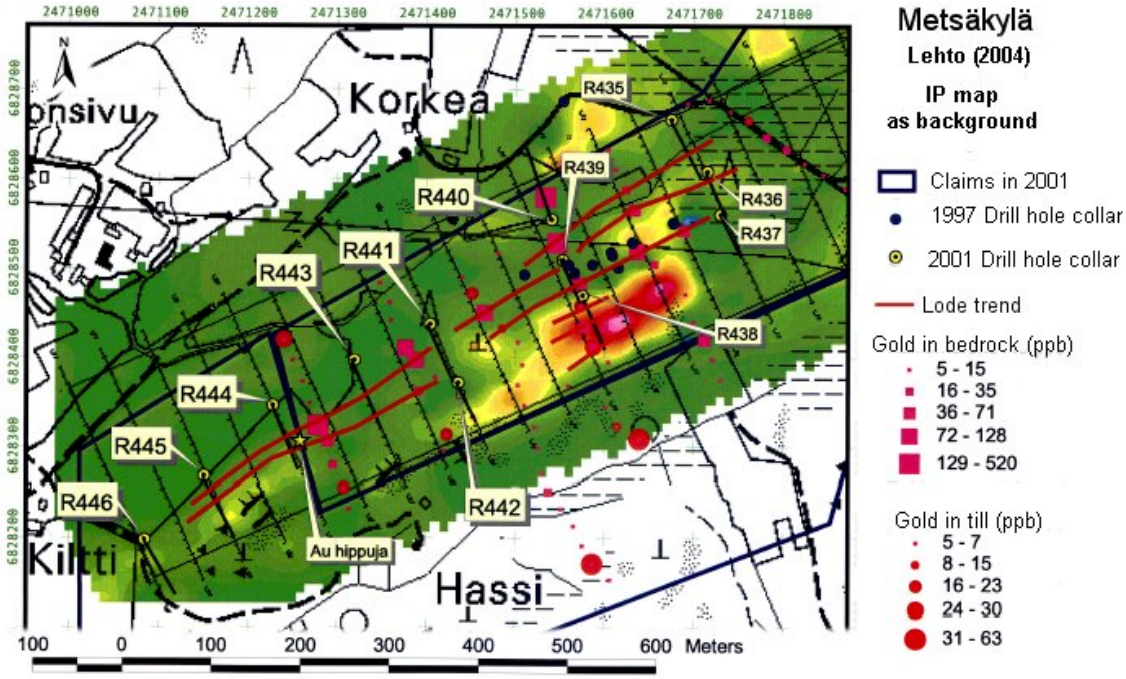
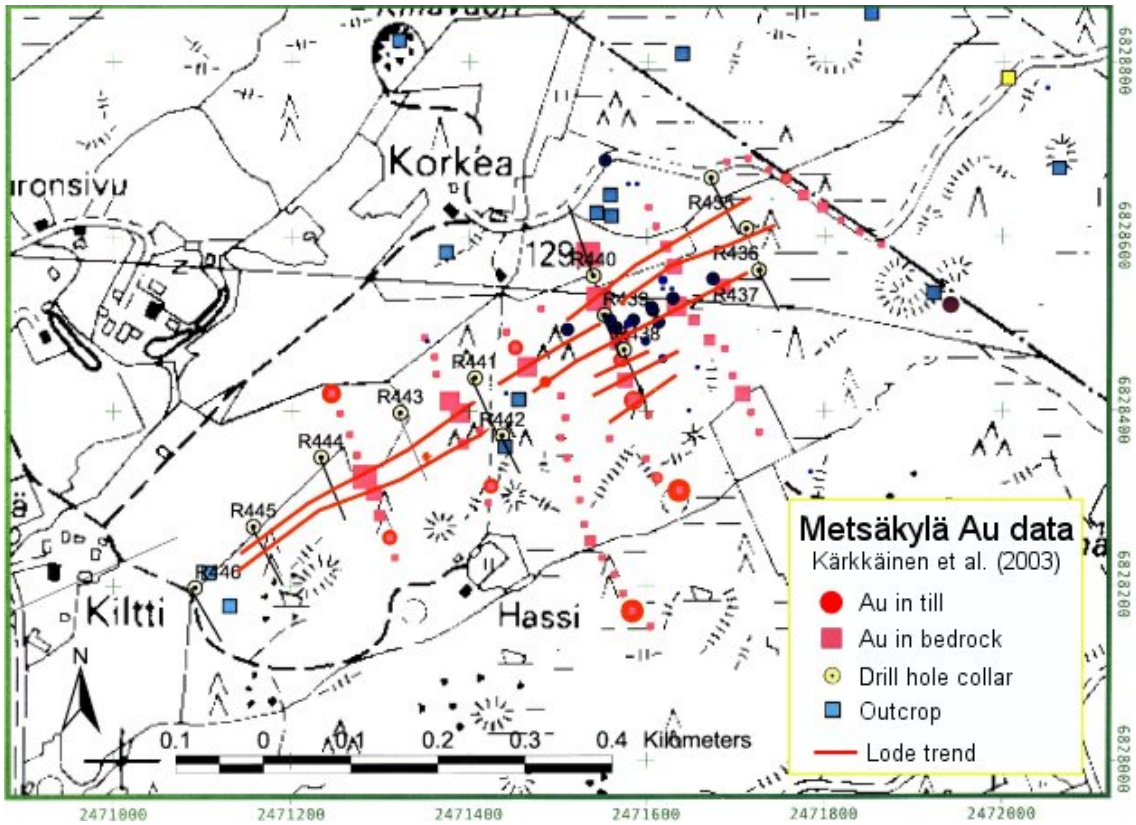


Plan view:



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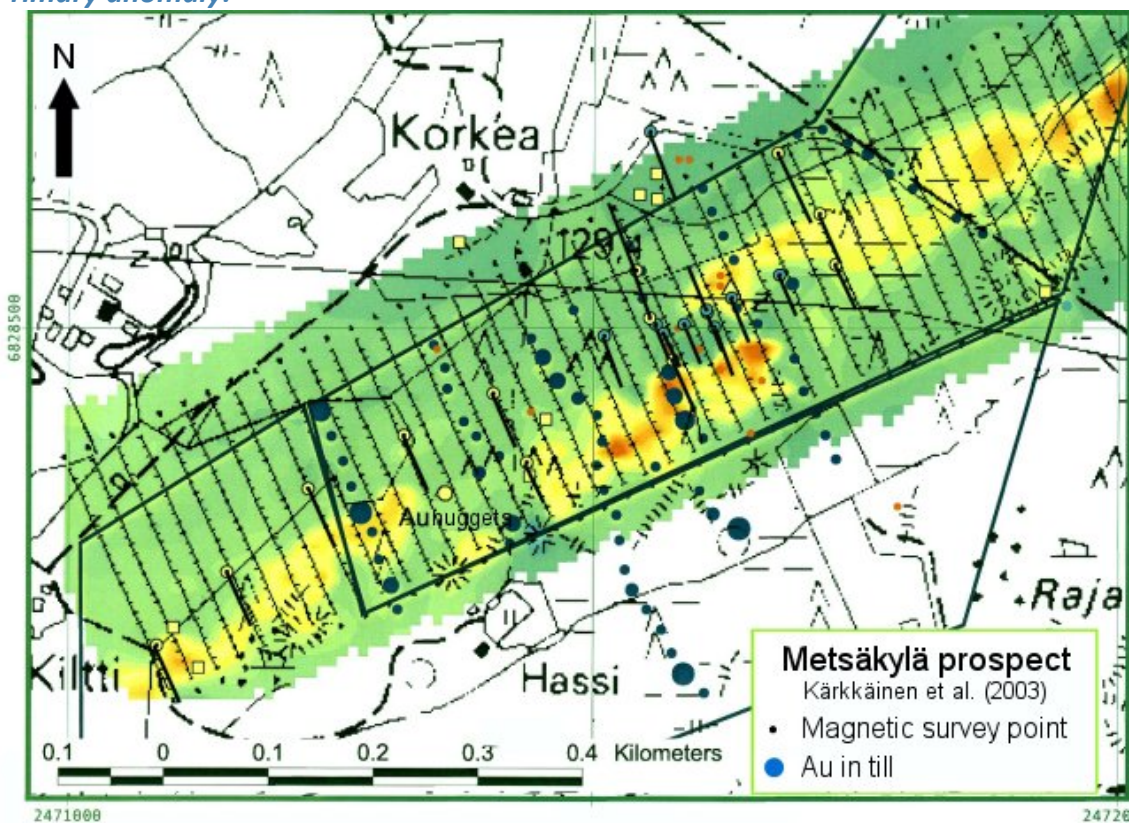

REFERENCES

1. Kärkkäinen, N. & Lehto, T. 2004. GTK:n kultatutkimukset Etelä- ja Länsi-Suomessa. Vuorimiesyhdistyksen ekskursio 28.9.2004-29.9.2004. 11 s. Geological Survey of Finland, Report M 19/2024/2004/2/10. 11 p. (in Finnish)*http://tupa.gtk.fi/raportti/arkisto/m19_2024_2004_2_10.pdf*

2. Kärkkäinen, N., Lehto, T., Tiainen, M., Jokinen, T., Nironen, M., Peltonen, P. & Valli, T. 2003. Etelä- ja Länsi-Suomen kaarikompleksi, kullan ja nikkelin etsintä vuosina 1998-2002. Geological Survey of Finland, Report M19/21,12/2003/1/10. 118 p. (in Finnish) *http://tupa.gtk.fi/raportti/arkisto/m19_21_12_2003_1_10.pdf*

3. Lehto, T. 2004. Tutkimustyöselostus Nokian ja Ylöjärven kunnissa, Metsäkylä 1 (kaivosrekisteri n:o 6623/1) ja Metsäkylä 2 (kaivosrekisteri n:o 7136/1) nimisellä valtausalueella vuosina 2000-2002 suoritetuista kultatutkimuksista. Geological Survey of Finland, Report M06/2123/2004/2/10. 11 p. (in Finnish)*http://tupa.gtk.fi/raportti/valtaus/m06_2123_2004_2_10.pdf*

4. Rosenberg, P. 2000. Tutkimusraportti Nokian ja Ylöjärven kuntien alueella, Metsäkylä-nimisellä valtausalueella (kaivosrekisteri N:o 6623/1), vuosina 1997-1999 suoritetuista kultatutkimuksista. Geological Survey of Finland, Report M 19/2123/2000/1/10. 9 p. (in Finnish) *http://tupa.gtk.fi/raportti/arkisto/m19_2123_2000_1_10.pdf*