Pirunkoukku

Alternative Names: Koukku
Occurence type: occurrence

Commodity	Rank	Total measure	Total production	Total resource	Importance
gold	1	NA	NA	NA	NA
copper	3	NA	NA	NA	NA

Easting EUREF: 443351,245
Northing EUREF: 7021557,249

Easting YKJ: 3443500
Northing YKJ: 7024500

Discovery year: 2000
Discovered by: Geological Survey of Finland

Mineral deposit type

Group: Metallogenic deposit
Main type: Orogenic (metamorphic hydrothermal)
Comments: Possibly a granitoid-related (non-skarn) occurrence or an orogenic mineralisation overprinting the granitoid-related mineralisation.
References: 1, 3

Dimension

Expression: exposed
Form: discordant
Shape: NA
Length (m): NA
Width (m): NA
Thickness (m): NA
Depth (m): NA

Area (ha): NA
Dip azim: NA
Dip: NA
Plunge azim: NA
Plunge dip: NA
Orientation method: NA

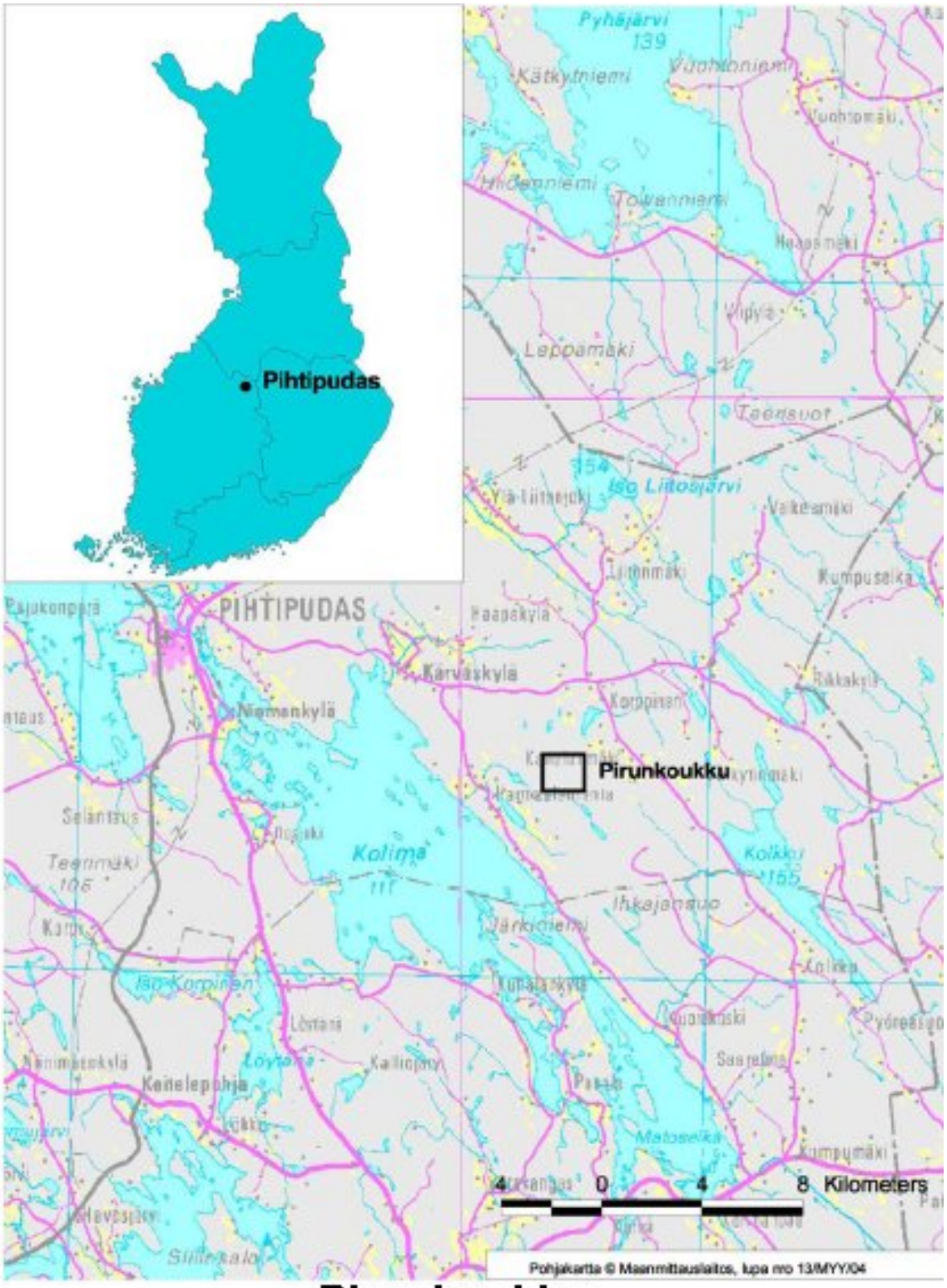
Holder history

Current holder: Northern Aspect Resources Oy
Years: 2022-2023
Holding type: Reservation

Previous holders:

Company	Years	Holding type	Comments
Mineral Exploration Network (Finland) Limited	2011-2011	Claim reservation (old law)	NA
Tertiary Gold Ltd	2004	NA	NA
Geological Survey of Finland	1999-2003	NA	NA

Figures

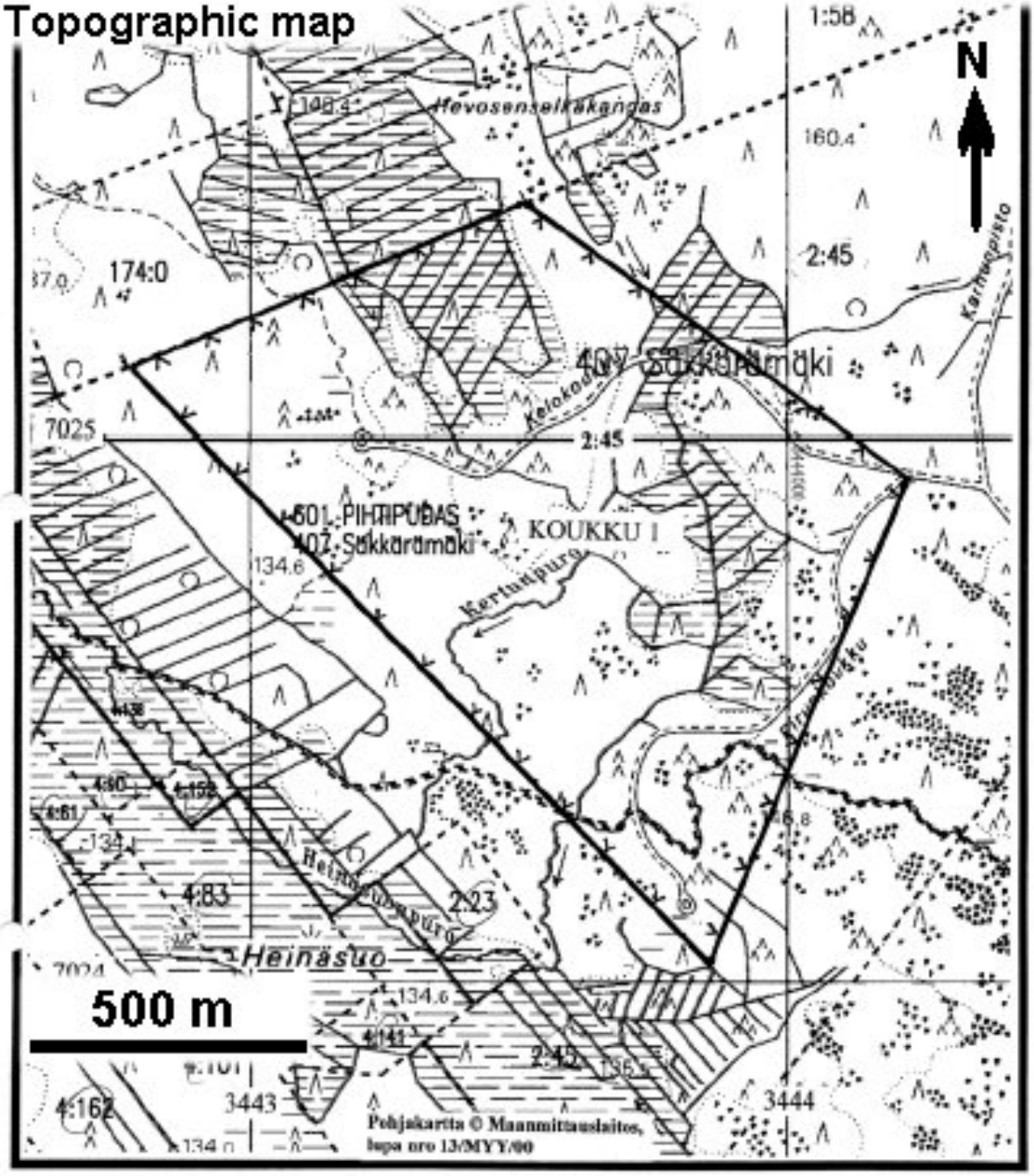


Pirunkoukku

Kontoniemi & Mursu (2004)

Pirunkoukku Kontoniemi & Mursu (2004)

Topographic map



EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
2000-2003	core drilling	H: Makkonen, O. Kontoniemi	NA	1
	Core drilling (reconnaissance drilling): 40 diamond-drill holes, total 3777 m.			
	Intersections			
	HoleID	NA		
	From-To	NA		
	Length	1m		
	gold	3,3ppm		
	HoleID	NA		
	From-To	NA		
	Length	5m		
	gold	1,4ppm		
	copper	0,1%		

1998-2003	detailed geology	H: Makkonen, O. Kontoniemi	NA	1, 2, 3
	First indication was a Cu-rich glaciel erratic boulder discovered by an amateur prospector; Chalcopyrite- and arsenopyrite-rich erratic boulder field.			

1998-2003	detailed geophysics	H: Makkonen, O. Kontoniemi	NA	1
	The IP anomalies reflect the shear zones and zones of disseminated sulphides in felsic porphyry, and are not all directly related to gold mineralisation.			

1998-2003	regional geochemistry	H: Makkonen, O. Kontoniemi	NA	1, 2, 3

1998-2003	detailed geochemistry	H: Makkonen, O. Kontoniemi	NA	2
	As and Au anomalies in the B and C horizons of the podzol in till.			

1998-2003	regional geophysics	H: Makkonen, O. Kontoniemi	NA	1, 2, 3

1980-1980	regional geophysics	NA	key geological features	1, 2, 3
	Low-altitude airborne magnetic, electromagnetic and radiometric survey			

1979-1982	regional geochemistry	H: Makkonen, O. Kontoniemi	NA	1, 2, 3

1979-1982	detailed geochemistry	H: Makkonen, O. Kontoniemi	NA	2
	As and Au anomalies in the B and C horizons of the podzol in till.			

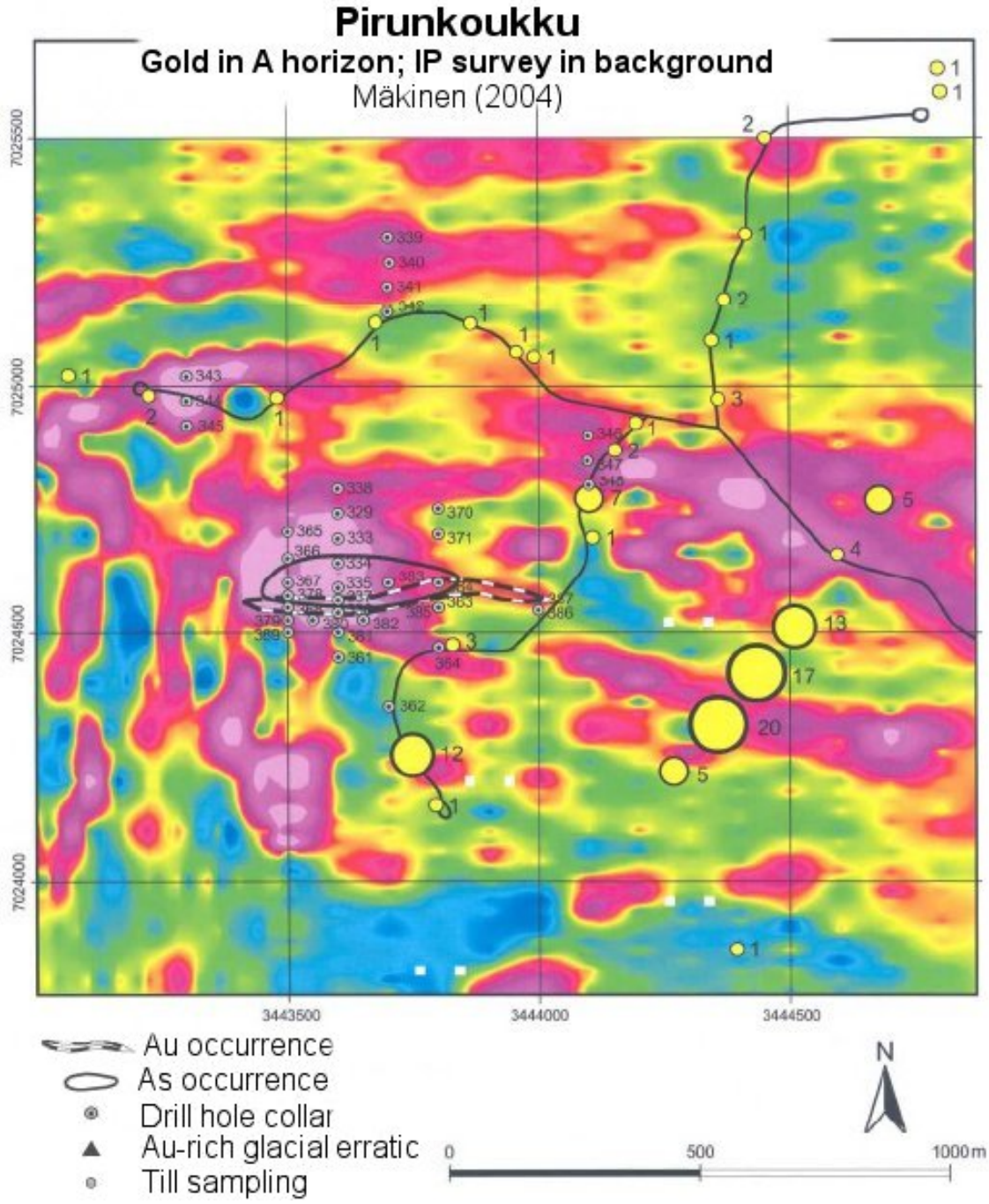
1979-1982	detailed geology	H: Makkonen, O. Kontoniemi	NA	1, 2, 3

1979-1982	detailed geophysics	H: Makkonen, O. Kontoniemi	NA	1
	The IP anomalies reflect the shear zones and zones of disseminated sulphides in felsic porphyry, and are not all directly related to gold mineralisation.			

1979-1982	core drilling	H: Makkonen, O. Kontoniemi	NA	1, 2, 3

Figures

Secondary anomaly:



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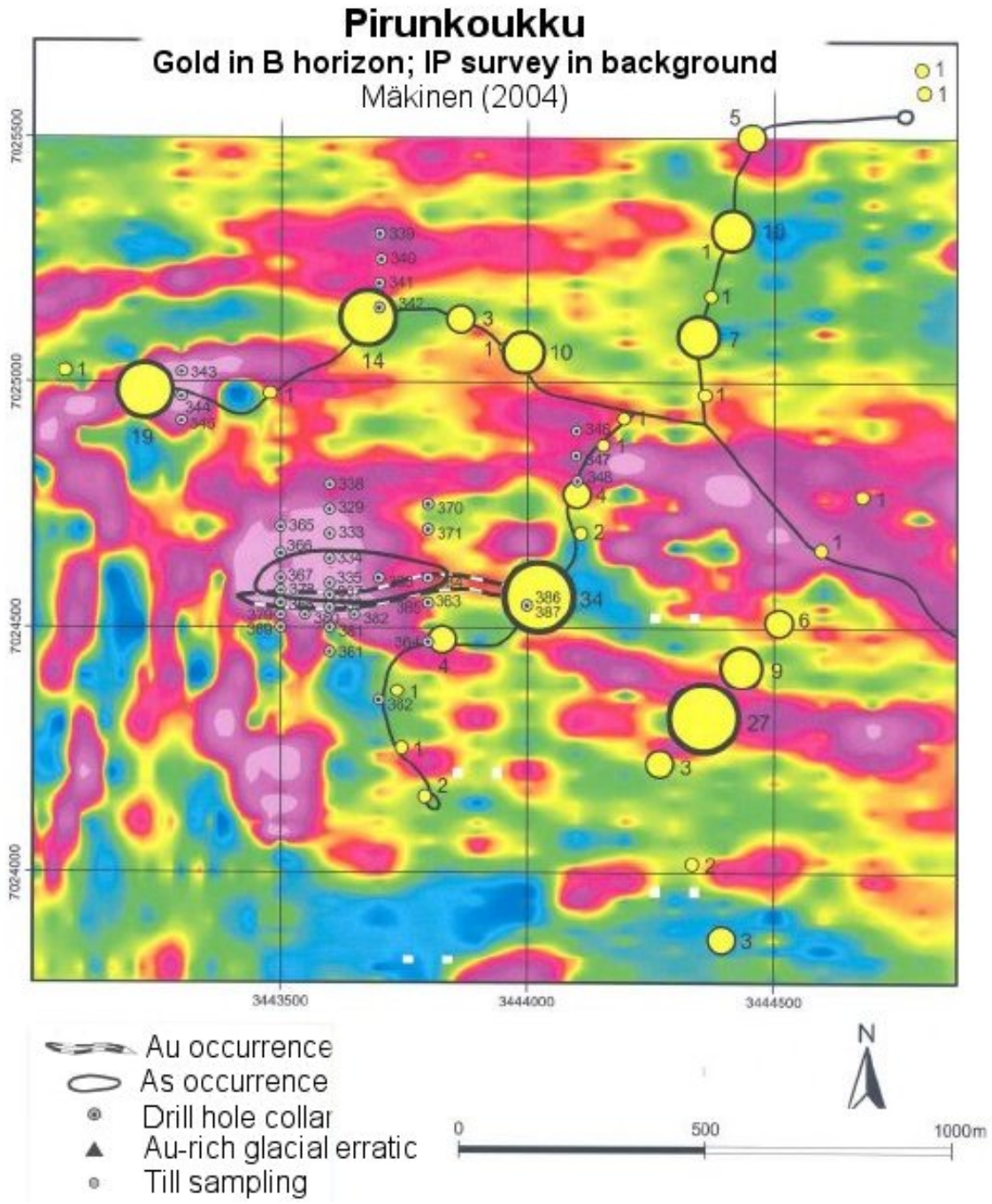

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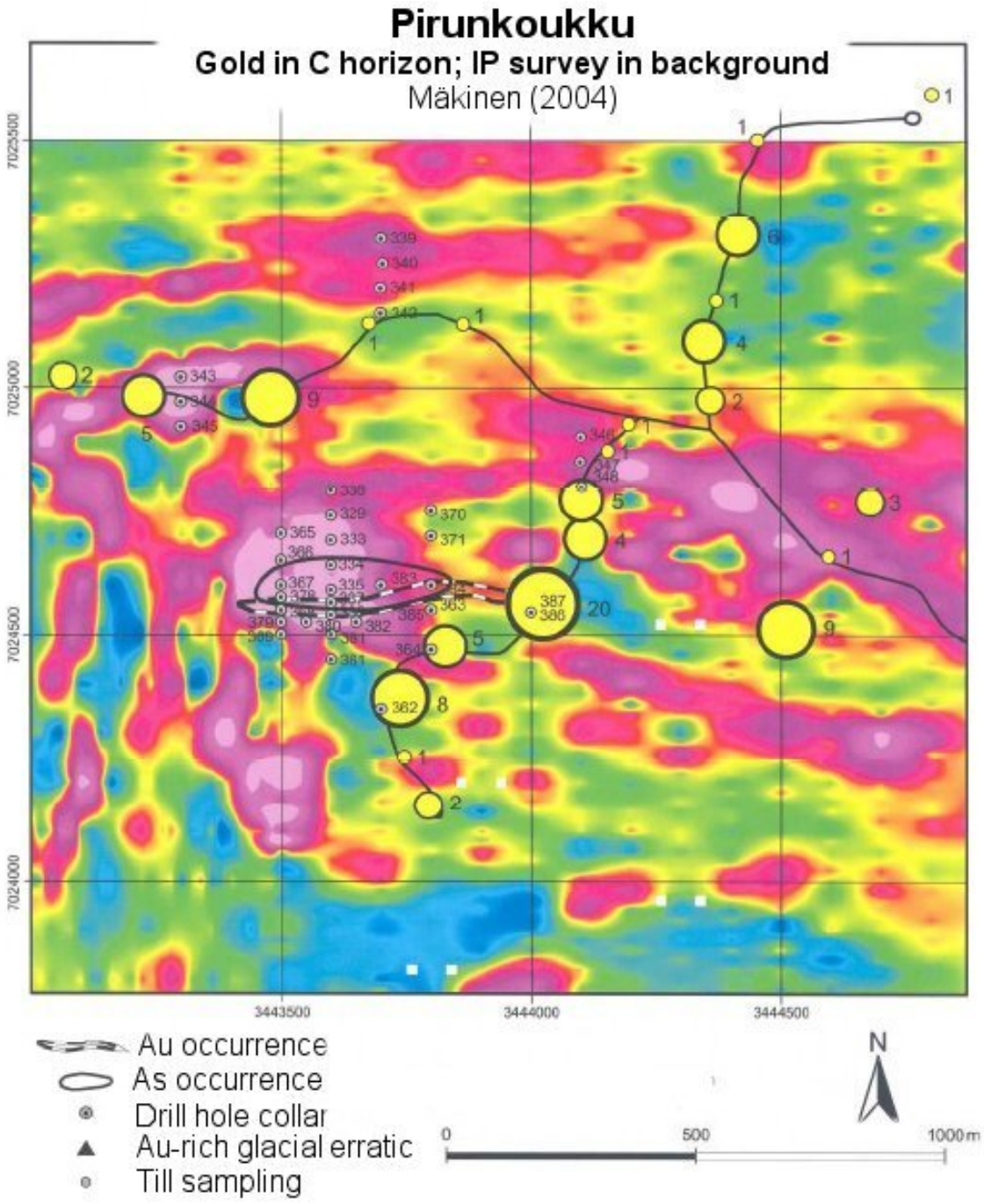
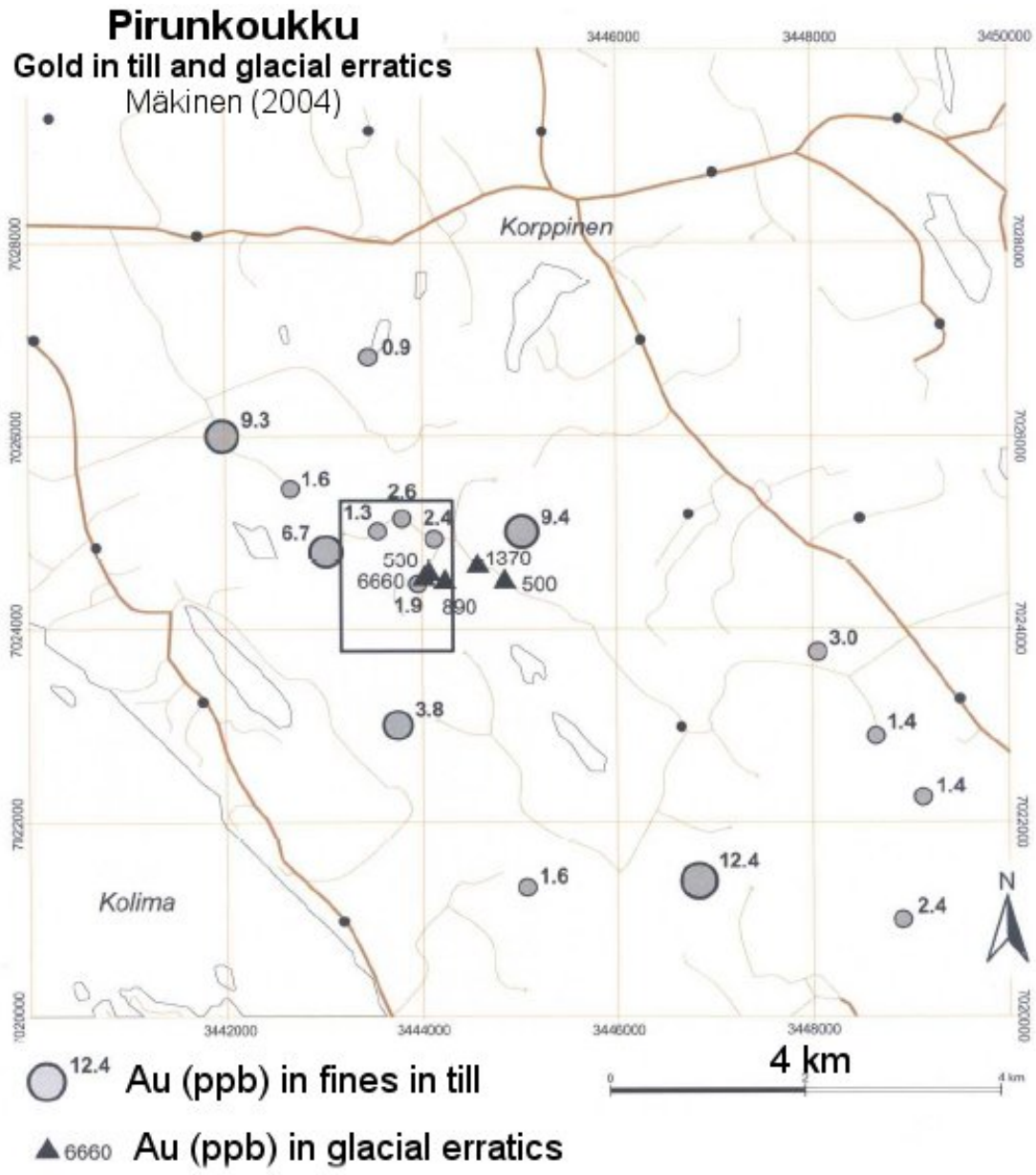



Pirunkoukku
Gold in till and glacial erratics
Mäkinen (2004)
Korppinen
Kolima
0.9
9.3
1.6
2.6
1.3
2.4
6.7
9.4
530
1370
6660
500
1.9
890
3.0
3.8
1.4
1.4
1.6
12.4
2.4
N
4 km
12.4 Au (ppb) in fines in till
6660 Au (ppb) in glacial erratics

GEOLOGY

Host rock: Quartz feldspar porphyry

Quartz feldspar porphyry (Host rock)

Rock type: Host rock
Proportion: major
Grain size: NA
Color: NA
References: 1
Comments: Auriferous, arsenopyrite-chalcopyrite-rich quartz veins

Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	major	
Bismuth	minor	
Chalcocite	minor	
Chalcopyrite	major	
Copper	minor	
Gold	minor	
	Native gold and Bi-Sb-Te minerals occur together as inclusions and cracks in sulphides (chiefly arsenopyrite and chalcopyrite) and silicates, and in contact with sulphides.	
Ilmenite	minor	
Marcasite	minor	
Molybdenite	minor	
Pyrrhotite	major	
Sphalerite	minor	

Other minerals:

Mineral	Proportion	Mineral texture
Amphibole	present	Alteration product
Chlorite	present	Alteration product
Epidote	present	Alteration product
Fluorite	present	Alteration product
Garnet	present	Alteration product
K-Feldspar	present	Alteration product
Quartz	present	Alteration product

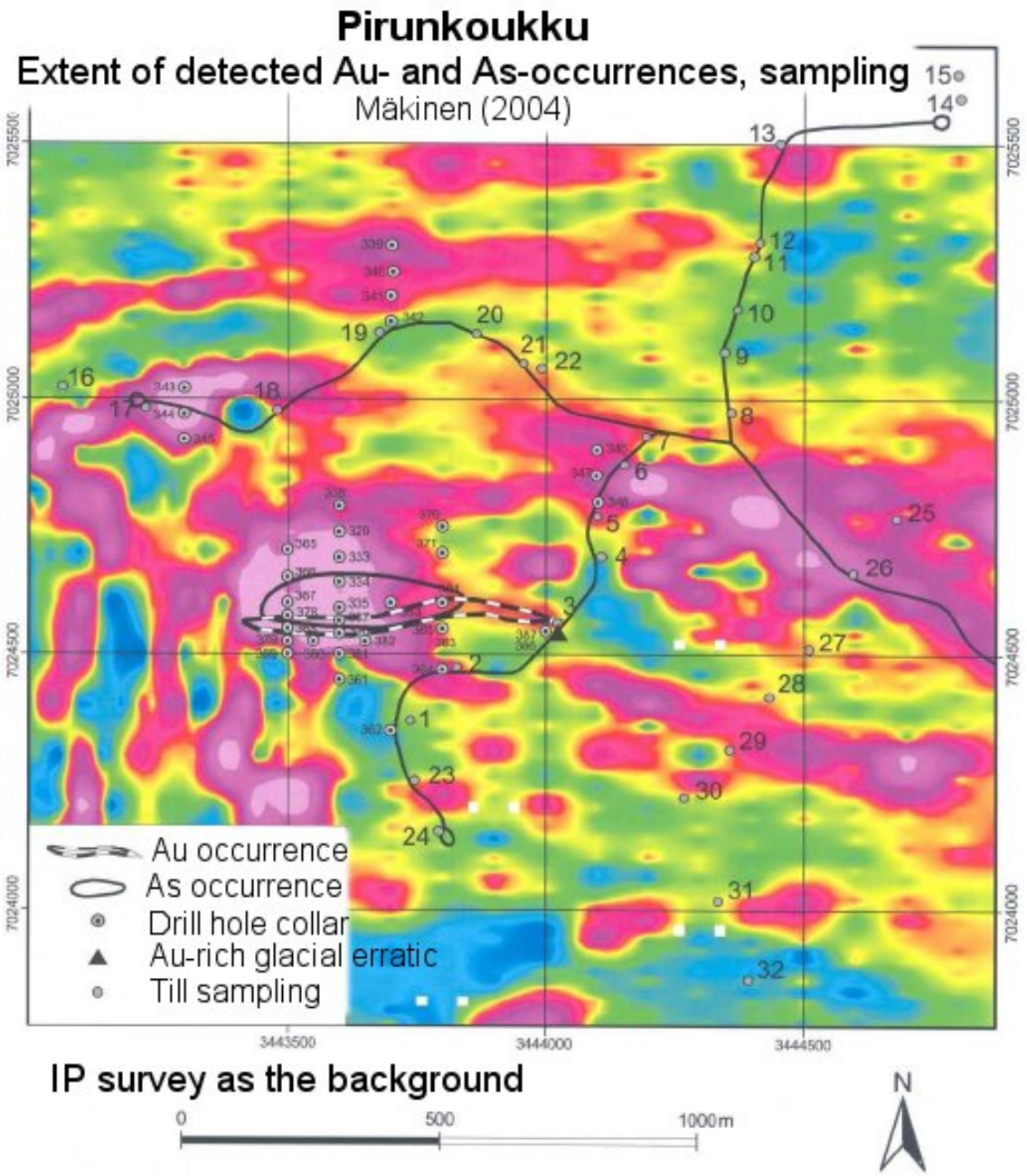
Structures
Sheared

Textures
Porphyritic

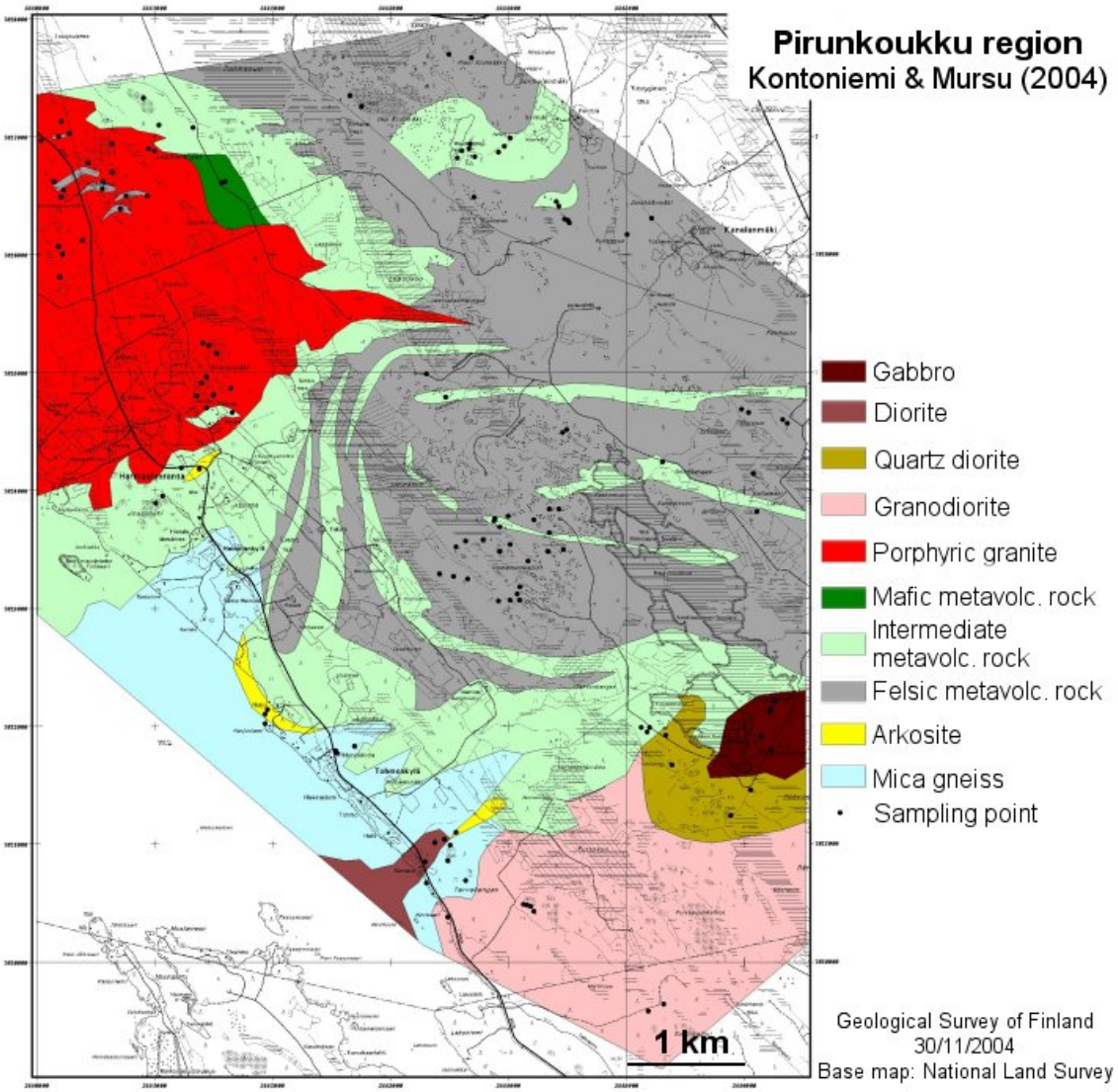
Alteration:	Distribution:	Degree:	Relation to mineralization:
sericitic alteration	Pervasive	NA	Pre
silicification	Pervasive	NA	Pre
carbonate alteration	Pervasive	NA	Pre

Figures

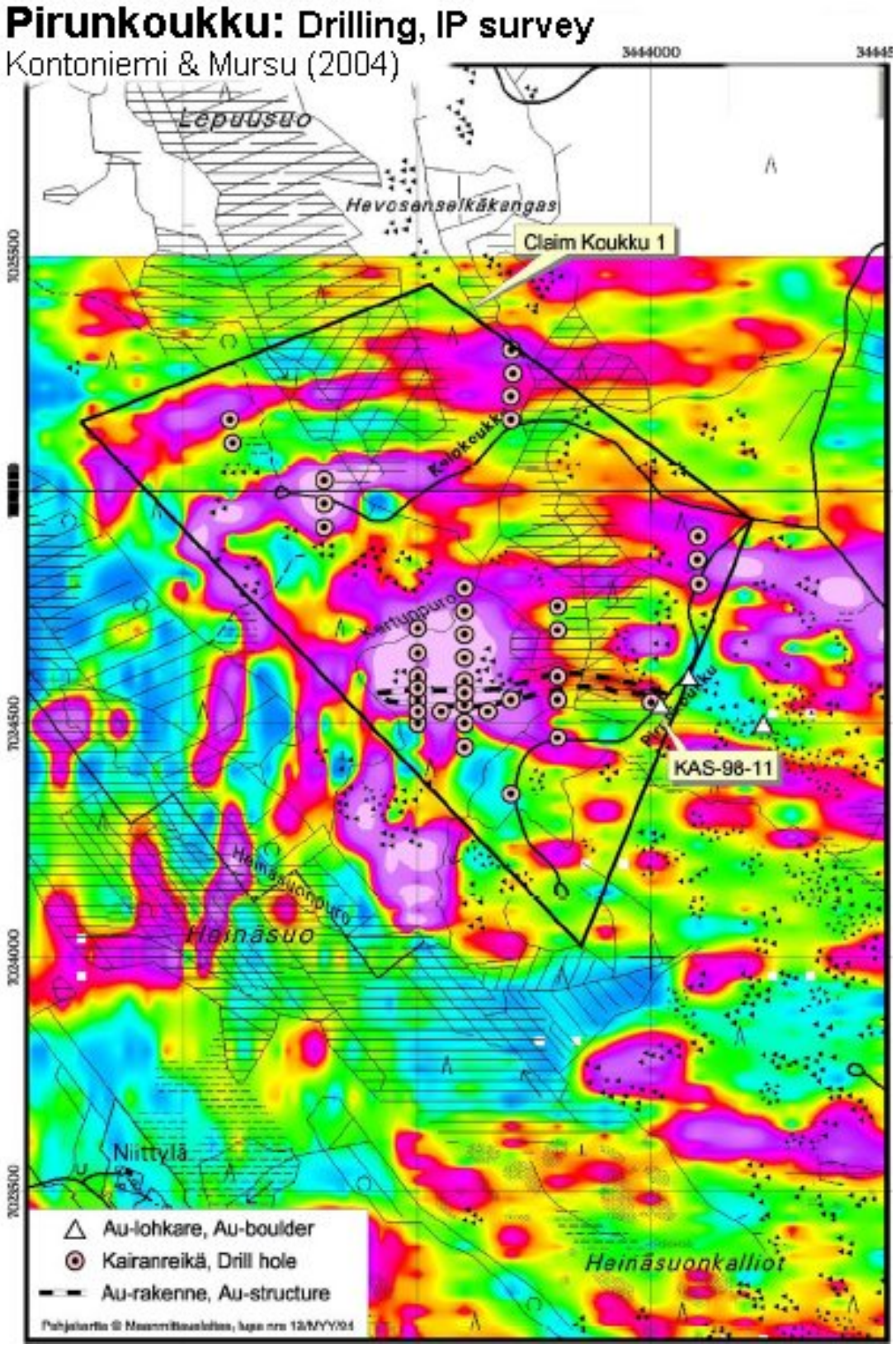
Primary anomaly:



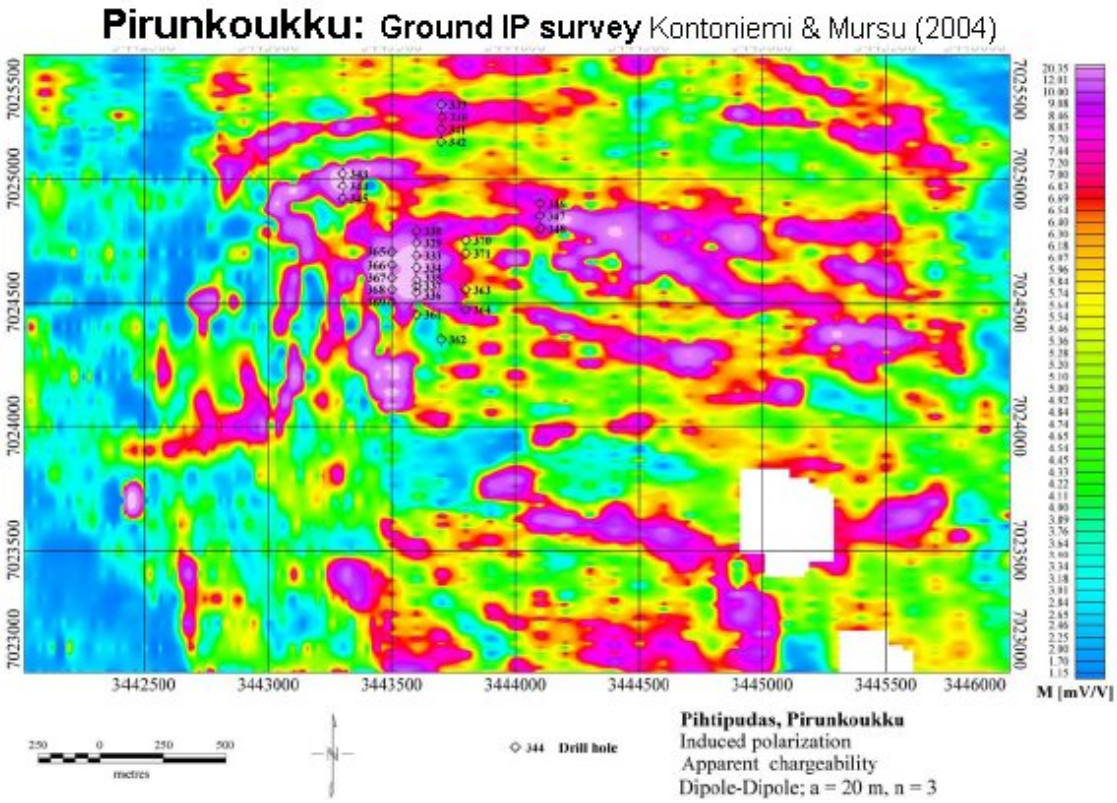
Regional geology:



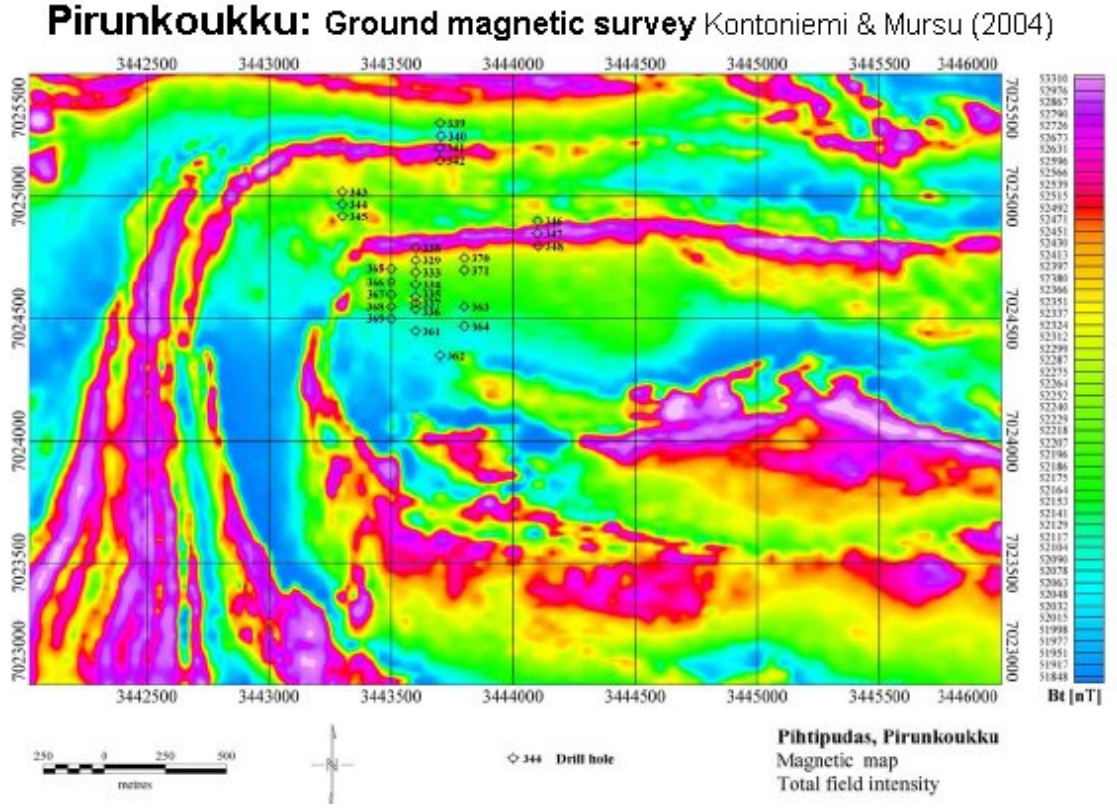
Plan view:


Pirunkoukku: Drilling, IP survey
Kontoniemi & Mursu (2004)
3444000
Lepuusuo
Hevosansalkäkangas
Claim Koukku 1
Kelpkoukku
Kartuppuro
KAS-98-11
Heinäsuonpuro
Heinäsuo
Niittylä
Heinäsuonkalliot
7025500
7024500
7024000
7023500
Au-lohkare, Au-boulder
Kairanreikä, Drill hole
Au-rakenne, Au-structure

Primary anomaly:



Primary anomaly:



REFERENCES

1. Kontoniemi, O. & Mursu, J. 2004. Tutkimustyöselostus Pihtiputaan kunnassa valtausalueella Koukku 1, kaiv.rek.nro 7064/1, tehdyistä kultamalmitutkimuksista vuosina 1998-2003. English summary: Gold exploration in the tenement Koukku 1, mine reg. no. 7064/1, in Pihtiputaa, central Finland, during 1998-2003. Geological Survey of Finland, Report M06/3312/2004/1/10. 8 p. *http://tupa.gtk.fi/raportti/valtaus/m06_3312_2004_1_10.pdf*

2. Mäkinen, J. 2004. Moreenin pintaosan As-, Au-, Bi-, Sb- ja Te-pitoisuuksista Pirunkoukun alueella. Geological Survey of Finland, Report M19/3312/2004/1/10. 11 p. (in Finnish) *http://tupa.gtk.fi/raportti/arkisto/m19_3312_2004_1_10.pdf*

3. Nikander, J. 1990. Kupari-kultamalmitutkimukset Pihtiputaan Kolkussa, karttalehdillä 3312 08, 10 ja 11, vuosina 1979-1982. Geological Survey of Finland, Report M19/3312/-90/1/10. 6 p. *http://tupa.gtk.fi/raportti/arkisto/m19_3312_90_1_10.pdf*