Mäkrä

Alternative Names: Iso-Mäkrälampi
Occurence type: showing

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

Easting EUREF: 458855,122
Northing EUREF: 6996247,572
Easting YKJ: 3459010
Northing YKJ: 6999180

Province: Laivakangas (Au, Cu)
Comments: Existing information suggests only very minor mineralisation, but not much drilling has been done, so a potential for something a slightly lager occurrence exists.
References: 1, 2, 3, 4

Mineral deposit type

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

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
Dimension comments: Work done gives no information on the extent of mineralised rock

Holder history

Previous holders:

Company	Years	Holding type	Comments
Arctic Minerals AB	2021	Application for reservation	NA
Akkerman Exploration B.V.	2020-2021	Reservation	NA
Pyhäsalmi Mine Oy	2013	Reservation	NA

EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
2000-2000	core drilling	Olavi Kontoniemi	mineralized zone identified	1
	Five diamond holes drilled, total 245.1 m, max 0.1-0.2 ppm Au detected			
1999-1999	regional geophysics	Olavi Kontoniemi	key geological features	
	Ground IP survey			
1998-2000	detailed geology	Olavi Kontoniemi	key geological features	1
	Only weakly mineralised material detected			
1983-1983	detailed geophysics	Jarmo Nikander	key geological features	
	Ground magnetic survey			
1982-1986	detailed geochemistry	Jarmo Nikander	geochemical anomaly	4
	Trenching and percussion drilling. reanalysis of 1950's drill holes: no significant gold detected. Up to 11 ppm Au in glacial erratics.			
1982-1986	detailed geology	Jarmo Nikander	mineralized zone identified	4
1957-1958	detailed geology	A.J. Laitakari	mineralized zone identified	4
	Up to 10 ppm Au detcted in arsenopyrite-rich quartz veins in intermediate volcanic rocks, but in glacial erratic boulders only			
1957-1958	core drilling	A.J. Laitakari	mineralized zone identified	1, 4
	Five diamond-drill holes. Anomalous Cu contents, up to 0.84 %, detected			

GEOLOGY

Host rock: Tonalite, Quartz vein
Wall rock: Intermediate volcanic rock, Mafic volcanic rock

Tonalite (Host rock)

Rock type: Host rock
Proportion: major
Grain size: NA
Color: NA
References: 1, 3, 4
Comments: The tonalitic to dioritic host rock occurs within a SW-dipping sequence of intermediate to mafic metavolcanic rocks

Metamorphic description:
Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	major	
Gold	minor	
	Apparently, gold only occurs in quartz veins and is closely associated with arsenopyrite	
Pyrite	major	
Pyrrhotite	major	

Other minerals:

Mineral	Proportion	Mineral texture
Quartz	present	

Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	amphibolite metamorphic facies	medium metamorphic grade	NA		

Quartz vein (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 4
Comments: Auriferous, arsenopyrite-bearing quartz veins

Intermediate volcanic rock (Wall rock)

Rock type: Wall rock
Proportion: minor
Grain size: NA

Color: NA
References: 4

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		

Mafic volcanic rock (Wall rock)

Rock type: Wall rock
Proportion: minor
Grain size: NA
Color: NA
References: 1, 4

Metamorphic description:

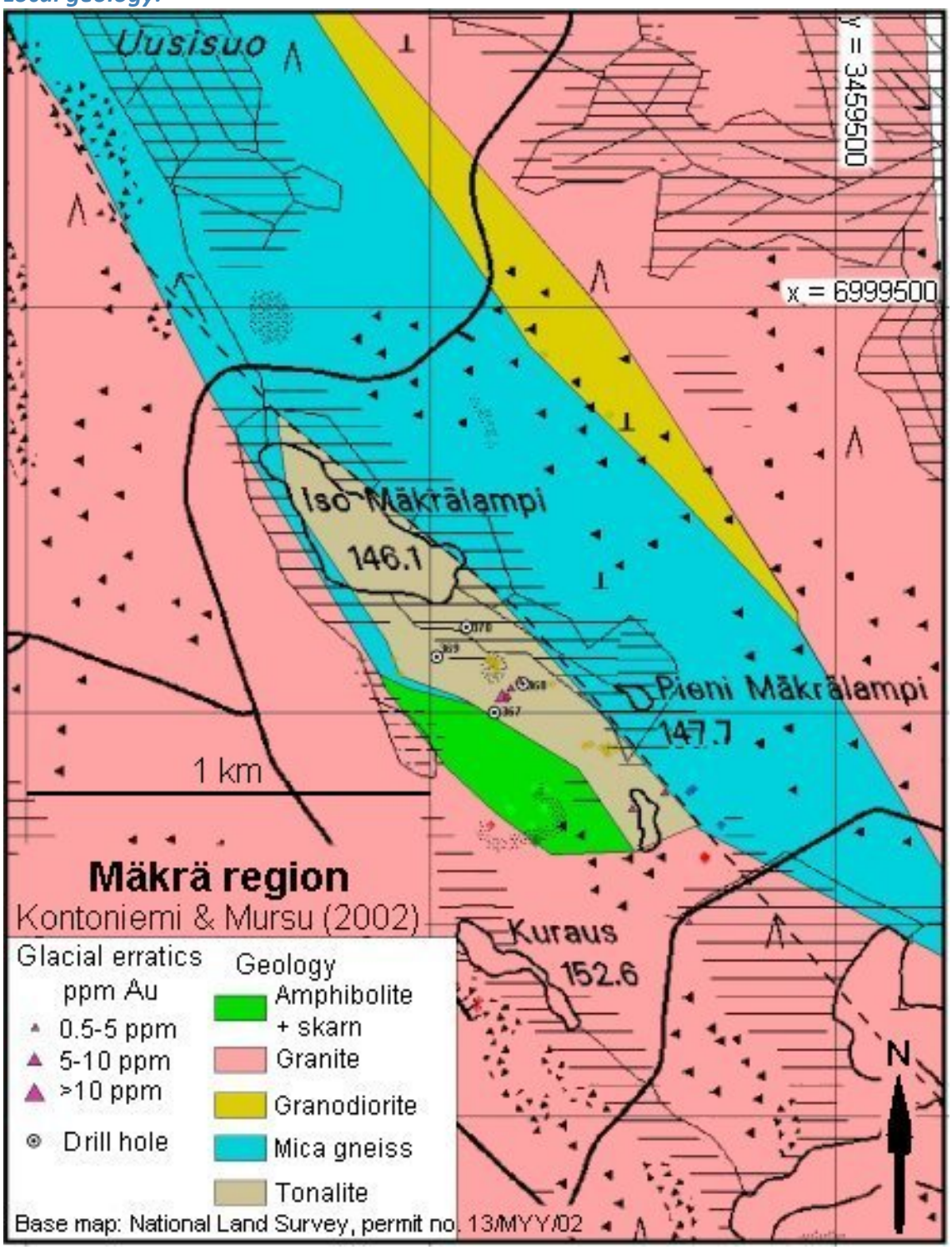
Other minerals:

Mineral	Proportion	Mineral texture
Diopside	major	
Garnet	major	

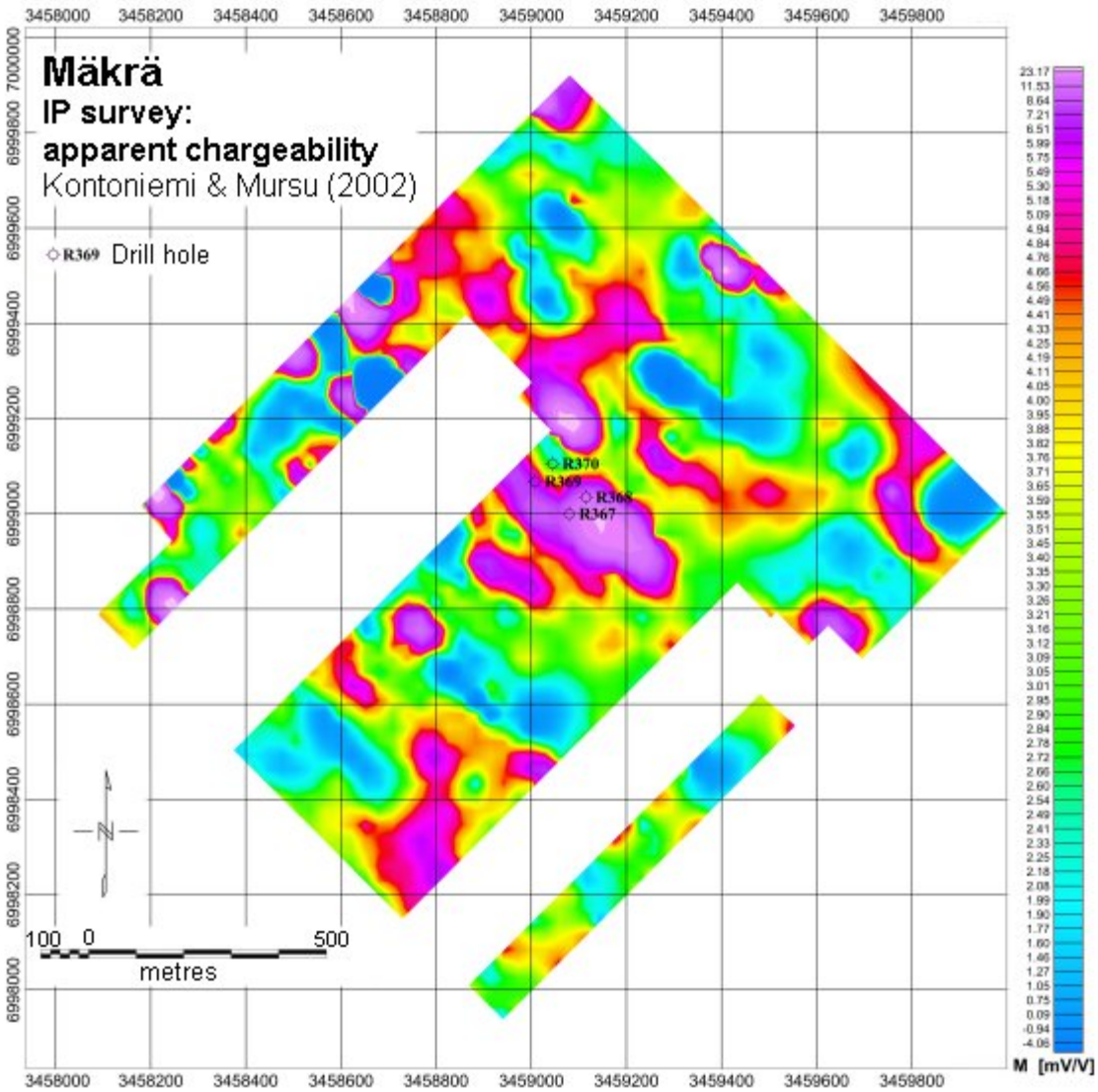
Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	amphibolite metamorphic facies	medium metamorphic grade	NA		

Figures

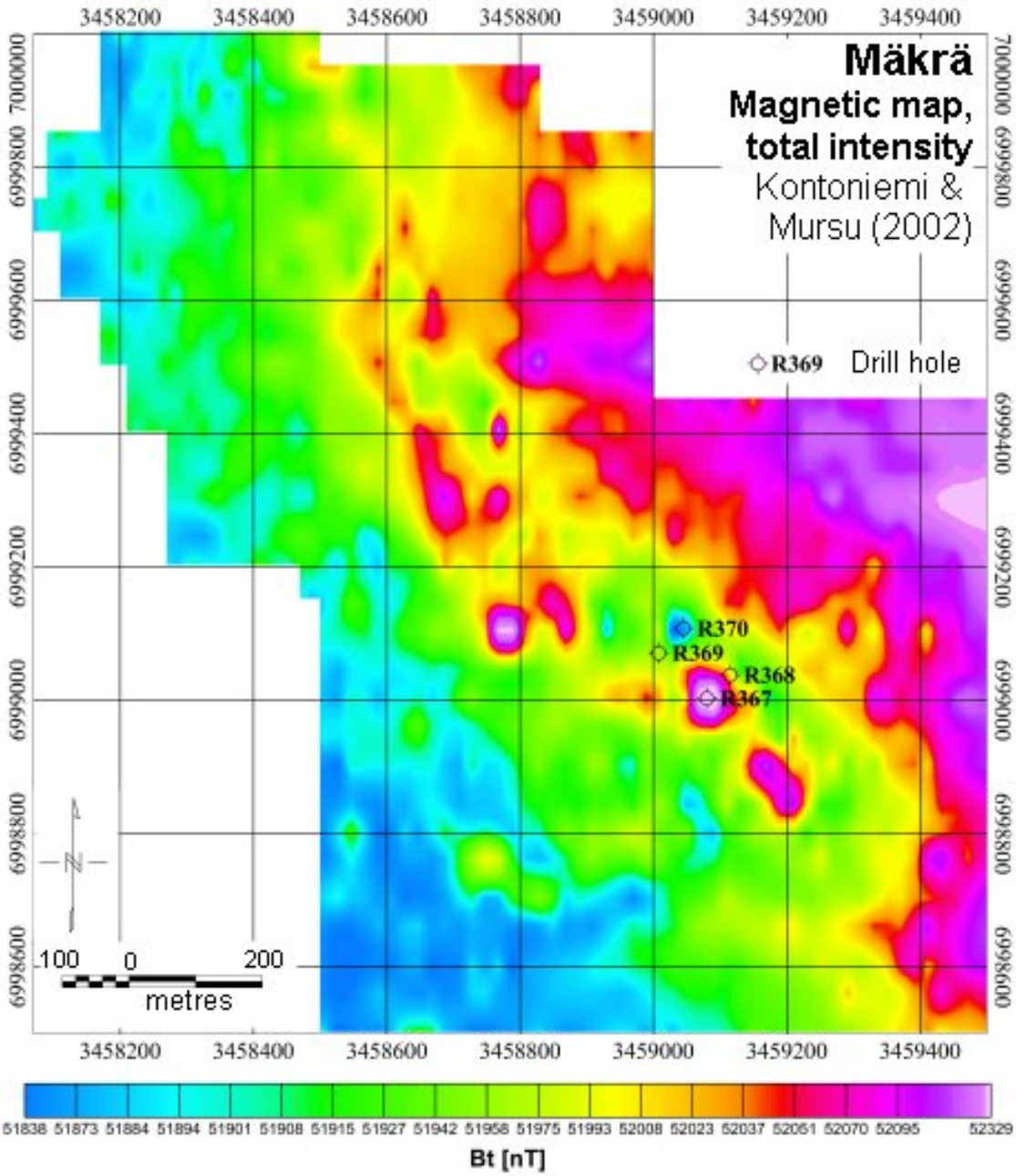
Local geology:



Primary anomaly:



Primary anomaly:



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