

Mietunoja

Alternative Names: Putaankylä

Occurrence type: occurrence

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

Easting EUREF: 422758,412

Northing EUREF: 7233572,17

Easting YKJ: 3422900

Northing YKJ: 7236600

Discovery year: 1997

Discovered by: Geological Survey of Finland

Province: Haukipudas (Zn, Cu)

References: 3

Mineral deposit type

Group: Metallogenic deposit

Main type: Orogenic (metamorphic hydrothermal)

Comments: Structurally controlled flow of auriferous fluid; precipitation of gold and sulphides in structurally favoured locations. The gold mineralisation overprints a syngenetic Cu(\pm Zn \pm Pb) mineralisation.

References: 4

Dimension

Expression: NA

Form: NA

Shape: NA

Length (m): NA

Width (m): NA

Thickness (m): NA

Depth (m): NA

Area (ha): NA

Dip azimuth: NA

Dip: NA

Plunge azimuth: NA

Plunge dip: NA

Orientation method: NA

Holder history

Previous holders:

Company	Years	Holding type	Comments
Geological Survey of Finland	NA	NA	NA
Nordic Mines AB	2013-2015	Reservation	NA

EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
1996-2000	detailed geophysics	Esko Korkiakoski	NA	4
	<i>Strong magnetic and electric anomalies produced by graphite- and sulphide-bearing schists of the Haukipudas Formation.</i>			
1996-2000	core drilling	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu. Diamond drilling into combine aero- and ground-geophysical and till geochemical anomaly; Five diamond-drill holes, total 636 m.</i>			
	Intersections			
	HoleID	NA		
	From-To	NA		
	Length	1,5m		
	gold	1,2ppm		
1996-2000	regional geochemistry	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1996-2000	detailed geochemistry	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1996-2000	regional geophysics	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1996-2000	detailed geology	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1985-1999	core drilling	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1985-1999	detailed geophysics	Esko Korkiakoski	NA	4
	<i>Strong magnetic and electric anomalies produced by graphite- and sulphide-bearing schists of the Haukipudas Formation.</i>			
1985-1999	detailed geochemistry	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1985-1999	regional geochemistry	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1985-1999	detailed geology	Esko Korkiakoski	NA	1, 2, 4
	<i>In co-operation with University of Oulu.</i>			
1976-1976	regional geophysics	NA	key geological features	1, 2, 4
	<i>Low-altitude airborne magnetic, electromagnetic and radiometric survey</i>			

GEOLOGY

Host rock: Greywacke

Greywacke (Host rock)

Rock type: Host rock

Proportion: major

Grain size: NA

Color: NA

References: 1, 4

Comments: Quartz ± carbonate veins, auriferous(?)

Metamorphic description:

Ore minerals:

Mineral	Proportion	Mineral texture
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		
<i>Comments: Regional metamorphism is related to the Svecokarelian orogeny; Graphite-quartz-biotite-pyrrhotite.</i>					

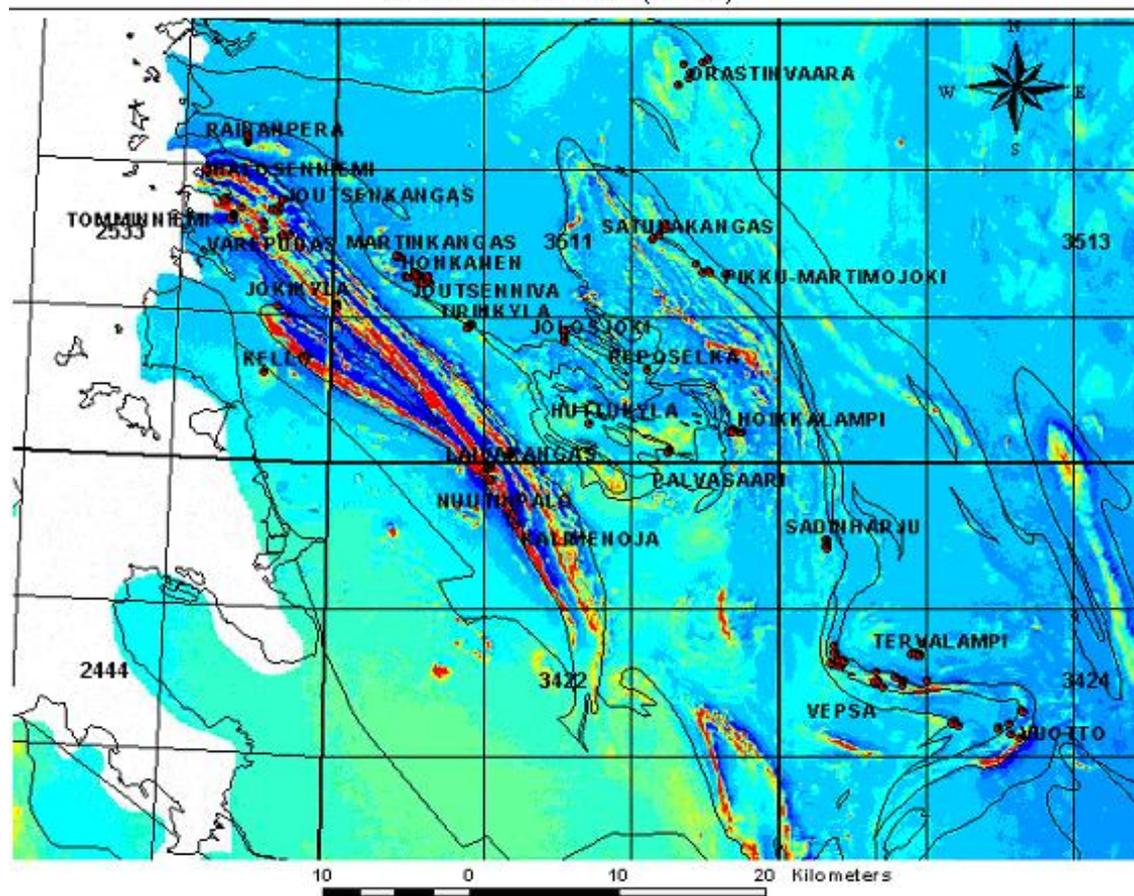
Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Paleoproterozoic (2500-1600 Ma)	1873-2093		N
<i>Comments: During a late Svecofennian, syn-D3 stage, deformation, possibly at ca. 1.83 Ga.</i>			

Figures

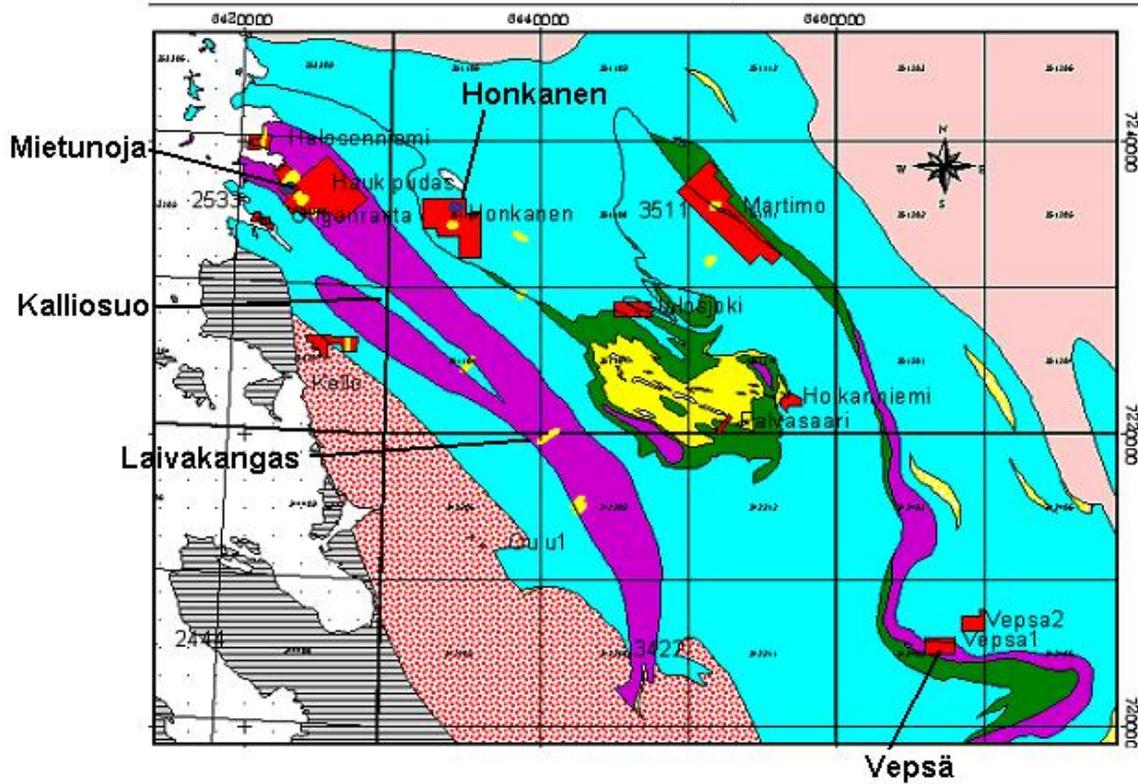
Primary anomaly:

Kiiminki Schist Belt Aerogeophysical map + drilling locations From Korkiakoski (2002)

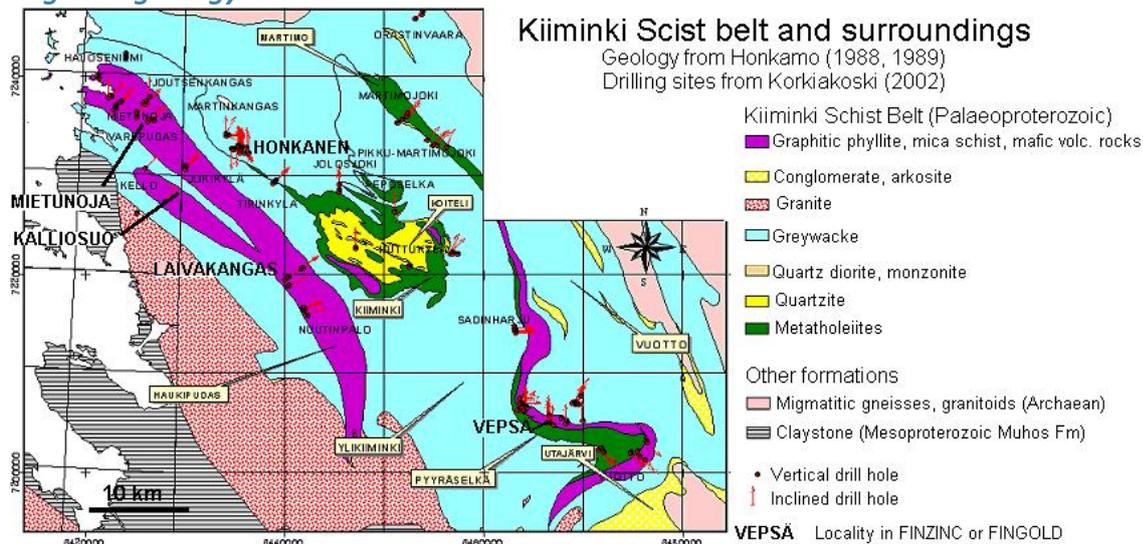


Regional geology:

Kiiminki Schist Belt
Bedrock + IP and SP survey sites
From Korkiakoski (2002)



Regional geology:

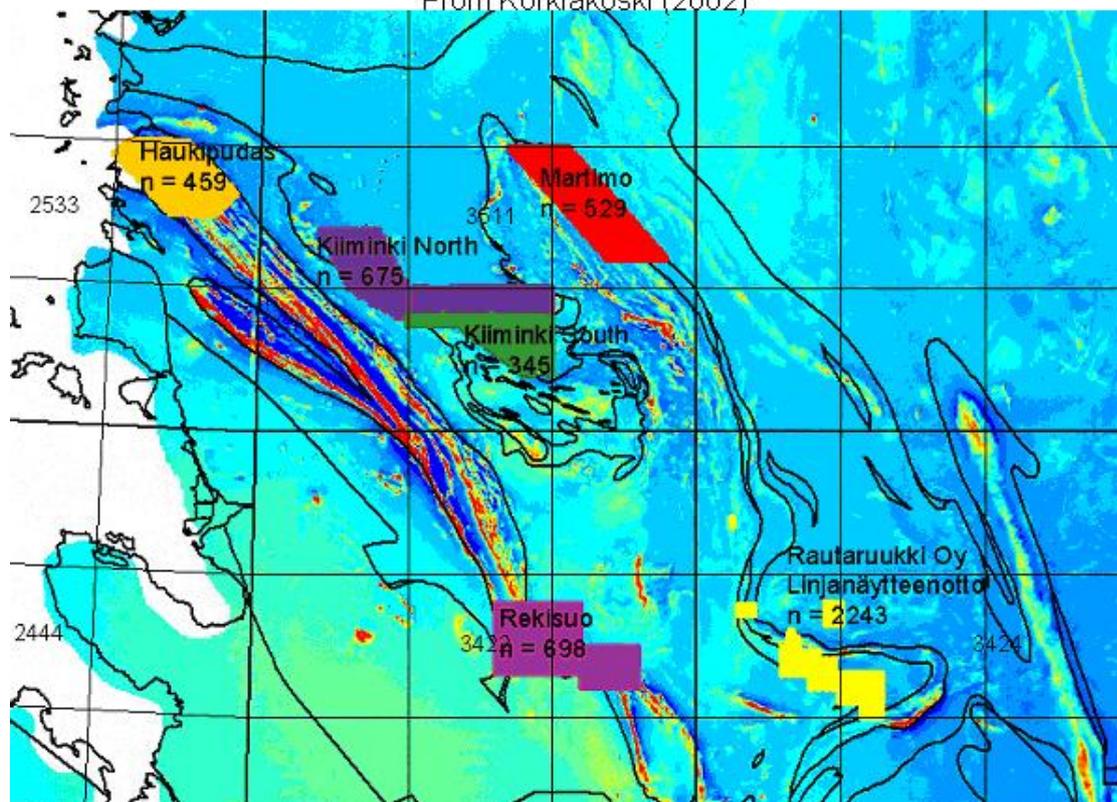


Primary anomaly:

Kiiminki Schist Belt

Aerogeophysical map + areas of detailed till geochemical survey

From Korkiakoski (2002)



REFERENCES

1. Ahtonen, N. 1996. Pohjois-Pohjanmaan liuskejakson mustaliuskeiden geokemia, mineralogia ja petrofysiikka malminetsinnän kannalta. MSc thesis. University of Oulu. Department of Geosciences and Astronomy. 78 p. (in Finnish)
2. Alapieti, T., Gehör, S., Heikura, P., Kärki, A. & Peuraniemi, V. 2000. Pohjois-Pohjanmaan malmiprojekti 1996-2000: loppuraportti. University of Oulu. Department of Geosciences. Report. 103 p. + CD-ROM (in Finnish)
3. Honkamo, M. 1989. Volcanic rocks in northern Ostrobothnia. Geological Survey of Finland, Report of Investigation 89. 46 p. http://tupa.gtk.fi/julkaisu/tutkimusraportti/tr_089.pdf
4. Korkiakoski, E. 2002. Pohjois-Pohjanmaan liuskealueen sinkki-kupari-lyijy-hopea- ja kultamalmitutkimukset vuosina 1990-1999. Summary: Exploration of zinc, copper, lead, silver and gold deposits in the Northern Ostrobothnian schist belt in 1990-1999. Geological Survey of Finland, Report M 19/2533/2534/3511/3422/3524/2002/1/10. 71 p, appended data CD. http://tupa.gtk.fi/raportti/arkisto/m19_2533_2534_3511_3422_3424_02_1_10.pdf