

KEG Conference
Kamloops
12 April, 2016

It Goes to Kitsault!

Channel sampling alteration
at Big Bulk on Kinskuch Lake,
near Kitsault.



Various Golden Triangle Renditions

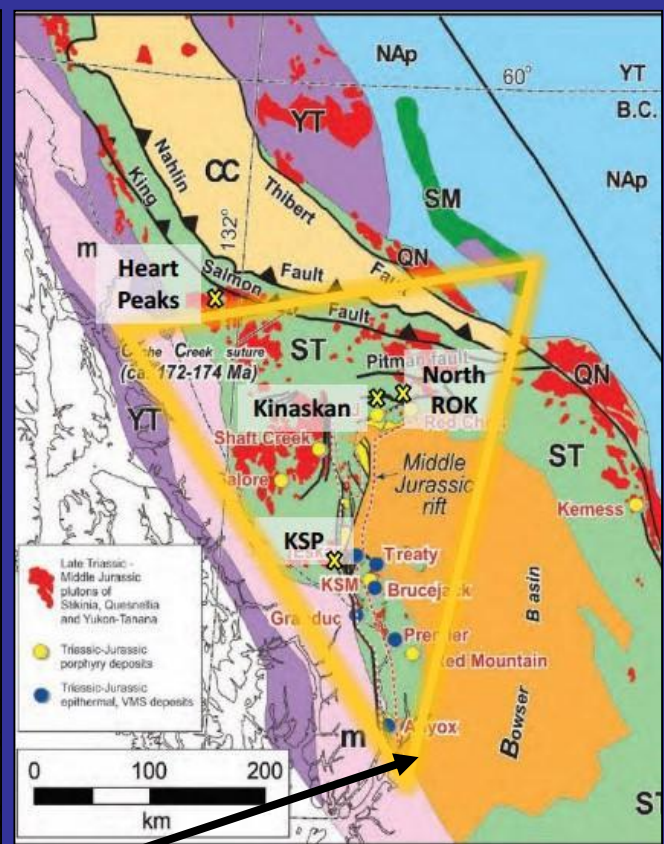
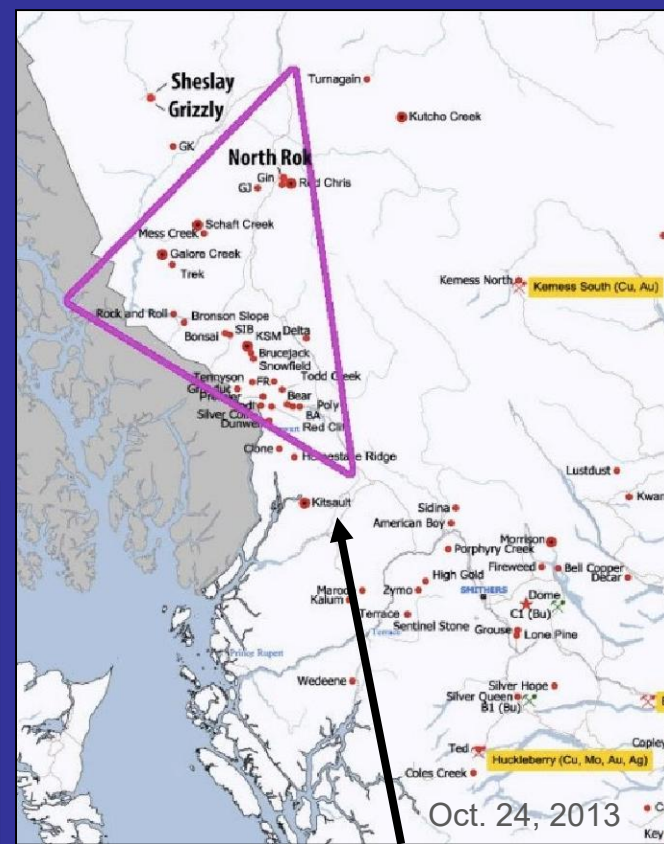
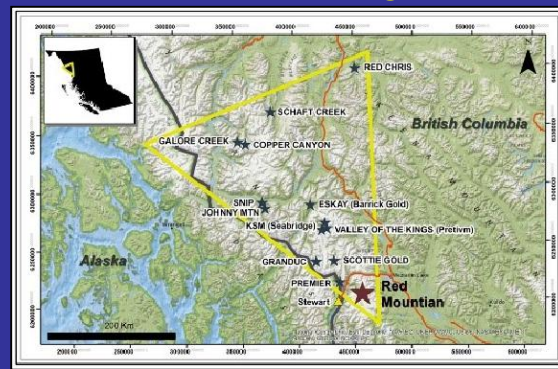
Skeena Resources ❌

Mining.com ❌

Colorado Resources ✓



IDM Mining ❌



Kitsault

Some Significant NW BC Au (Ag, Cu) Deposits

Red Chris
1 Billion tons @
0.35 g/t Au and
0.35% Cu
(Measured + Indicated)

Eskay Creek:
2.5 Million oz Au &
158.9 Million oz Ag
(Production)

Brucejack:
13.6 Million tons @
15.7 g/t Au Proven and
Probable Reserves
(6.9 Million oz of Au)

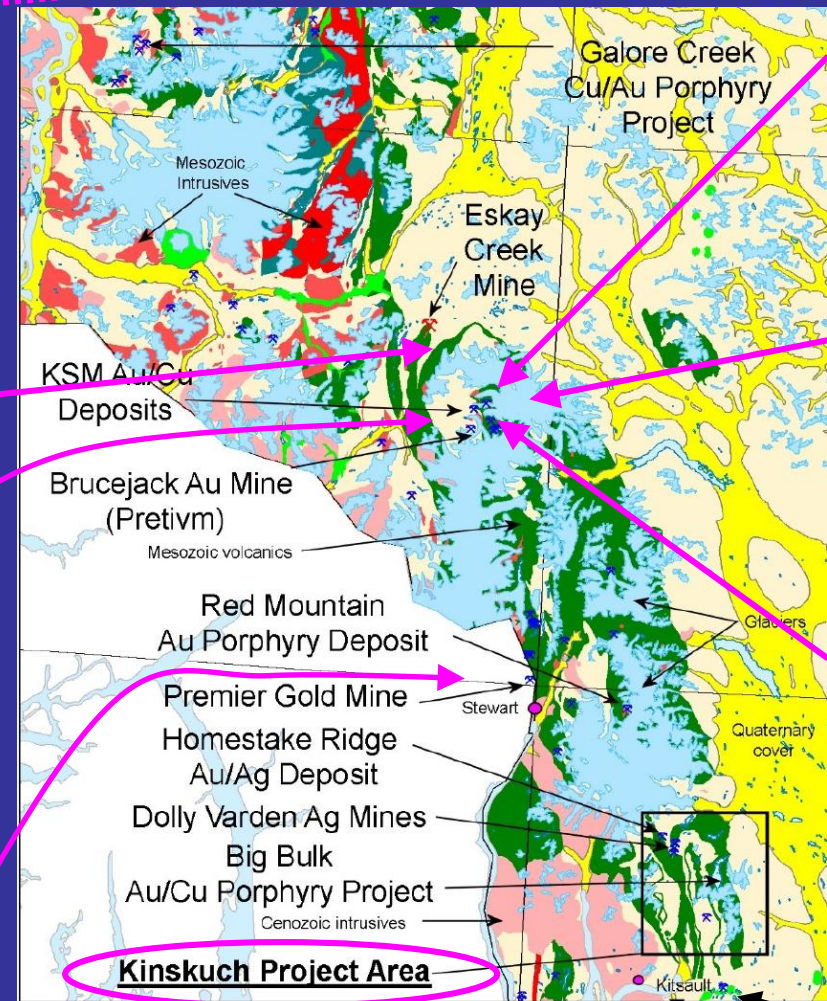
Ascot Resources:
? M tons @ ? g/t Au
(Annual drilling ongoing)
(2.4Moz AuEq in 2013)

Mitchell/Kerr/Sulphurets:
2.7 Billion tons @
0.55 g/t Au and
0.21% Cu
(Measured + Indicated)

Deep Kerr:
782 Million tons @
0.33 g/t Au and
0.54% Cu
(Inferred)

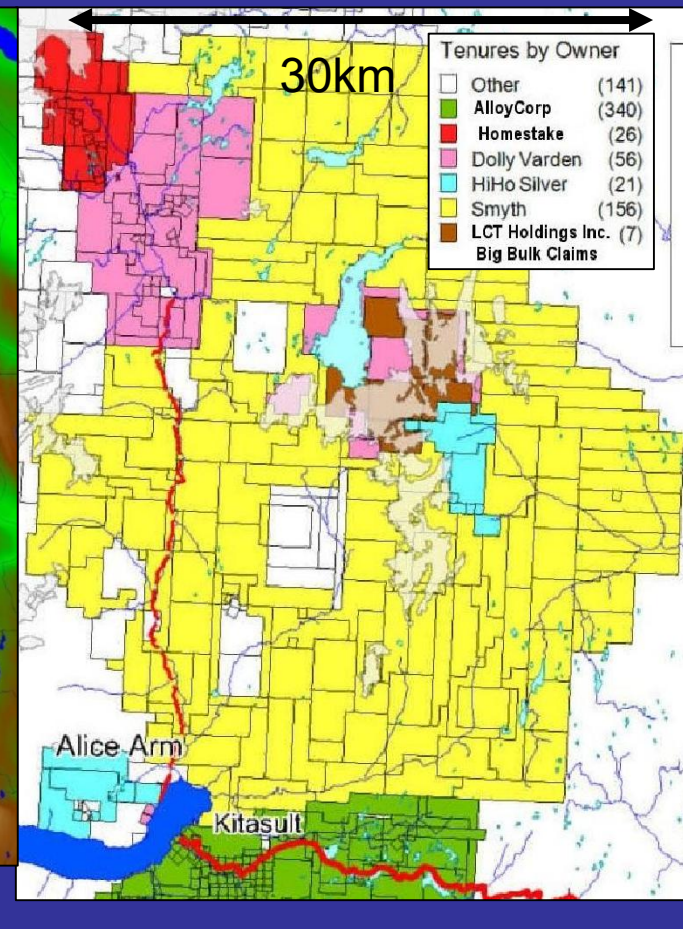
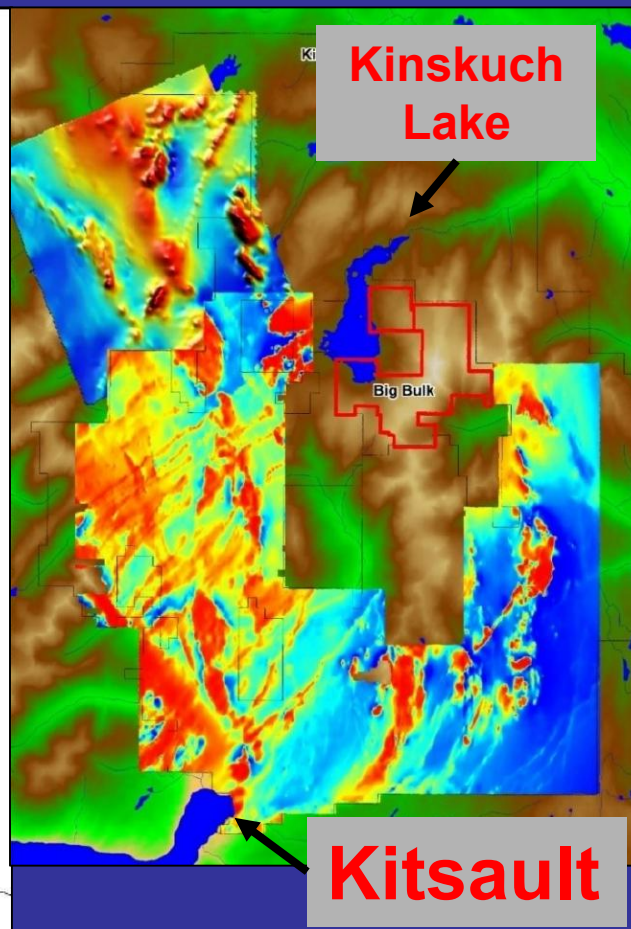
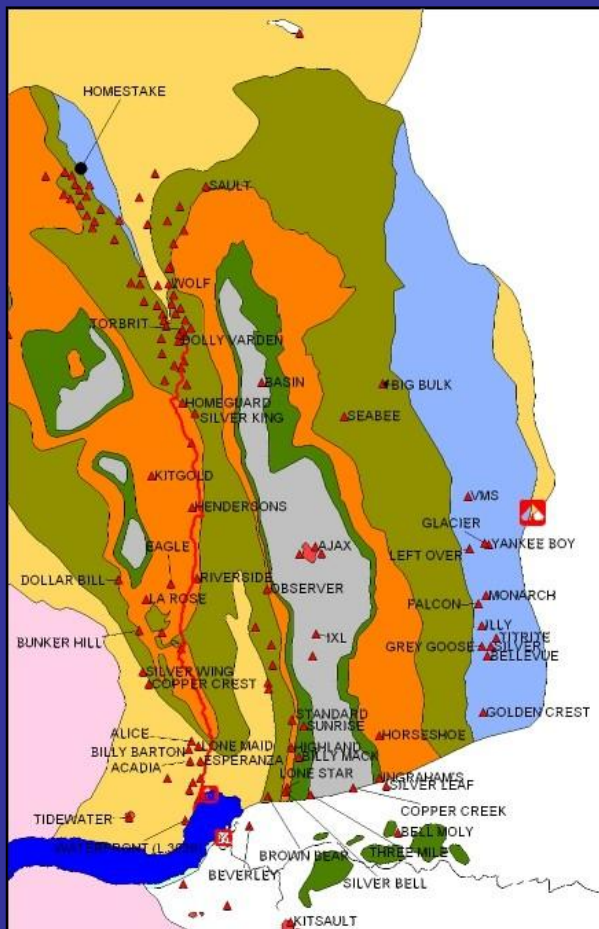
Snowfield:

	Cat (mil)	Tons @ Au (g/t)	Cu (%)
Meas	189	0.82	0.09
Ind	1,180	0.55	0.10
Inf	833	0.34	0.06



Kitsault

Kinskuch Lake ("Kitsault") Area Geology & Mineral Occurrences, Magnetics and Title



KSM / Kinskuch Geological Setting Similarities

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December 08, 2008

OBSERVATIONS on BIG BULK 2008 DRILL CORE EXAMINATION, and REVIEW OF REPORTS and RECENT DATA

SUMMARY and RECOMMENDATIONS

Big Bulk is a property of merit that deserves additional investigation by diamond drilling to depth. My impressions from examination of 2008 drill cores and review of historic and recent reports and data indicate that exploration to date has discovered only the peripheral and high-level parts of a large, potentially higher grade porphyry copper-gold deposit. The 2008 induced polarization (IP) survey identifies a new and promising target - a large, coherent chargeability anomaly at depth. Kowalczyk's statement (Memo 28/10/08, Figure 1) summarizes the IP interpretation: *'The unambiguous response of the deep zone gives comfort that this is a body of substantial size.'*

My recommendation is to drill test the deep IP anomaly to a depth of at least 500 metres. Favourable drill hole locations, given suitable topography and permissible accessibility, are:

1. 6167850N, 478100E vertical hole, to test the flank of the zone with maximum chargeability reposing at elevation around 800 metres
2. 6167600N, 477822E vertical hole, also testing the flank of the high chargeability zone with drill collar at lower elevation than hole 1
3. 6168650N, 477622E angle hole at -70 degrees, azimuth 135 degrees to test the chargeable chute like body (and potential northeast-trending vein or other structurally controlled mineralization).

My preference is to start with either hole 1 or 2, followed by number 3.

“The geological setting and style of mineralization of Big Bulk, other than less deformation, is similar to the Kerr porphyry copper-gold deposit in the Sulphurets District (Ditson *et al*, 1995).

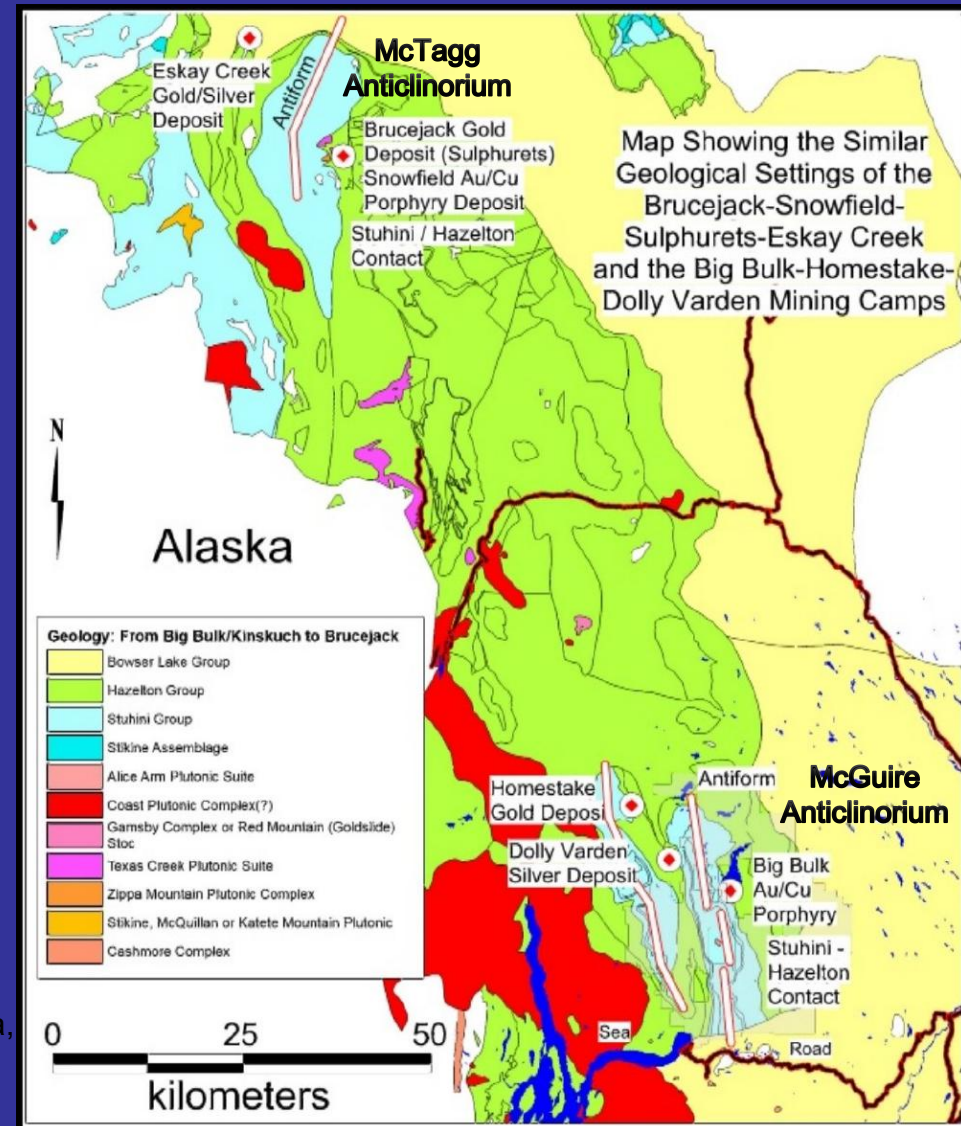
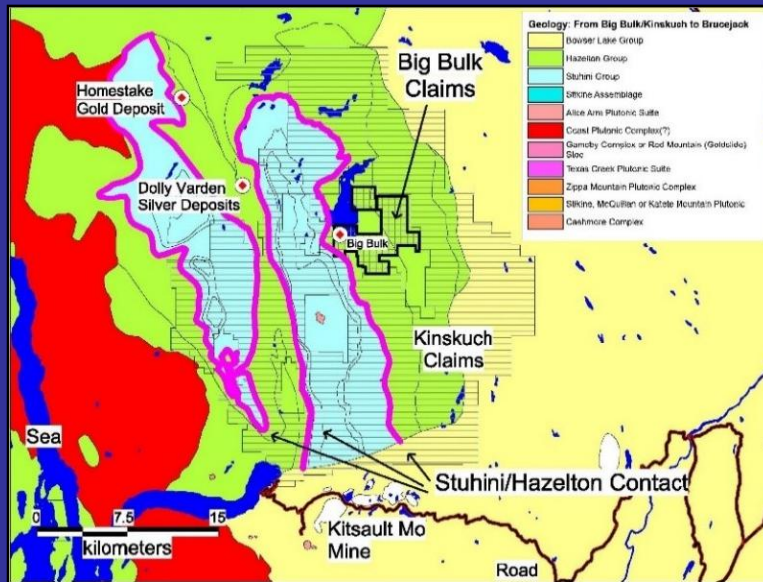
Smaller zones of mineralization at Big Bulk in this high level broad alteration zone are possibly similar to the Sulphurets District Brucejack Au-Ag vein deposits and possibly the Snowfield auriferous quartz stockwork mineralization (Margolis *et al*, 1995).”

Dr. Andre Panteleyev (2008)

KSM / Kinskuch Geological Setting Similarities

- Both on major anticlinoria
- Both host Au (Cu) mineralisation close to the Stuhini / Hazelton contact.

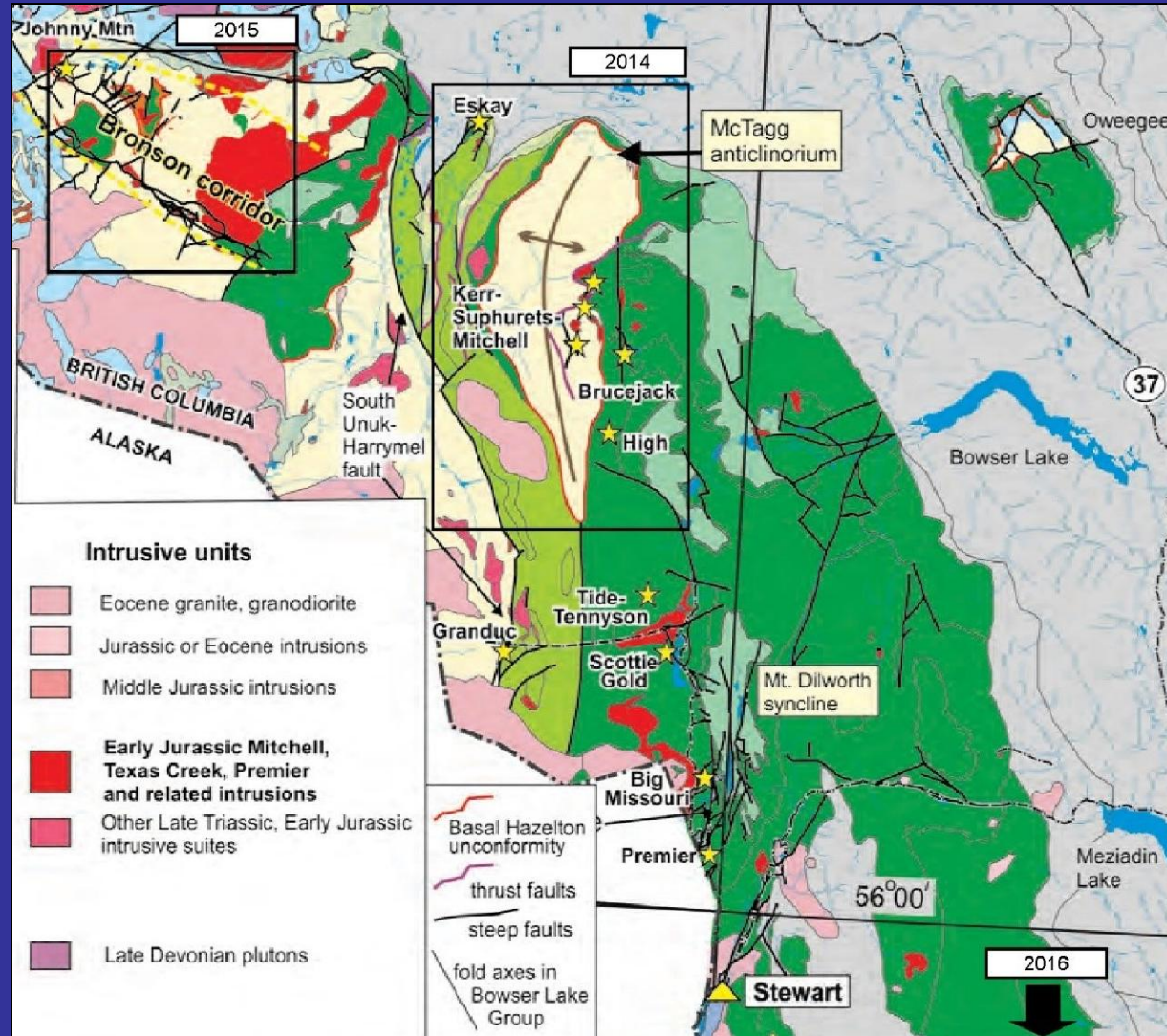
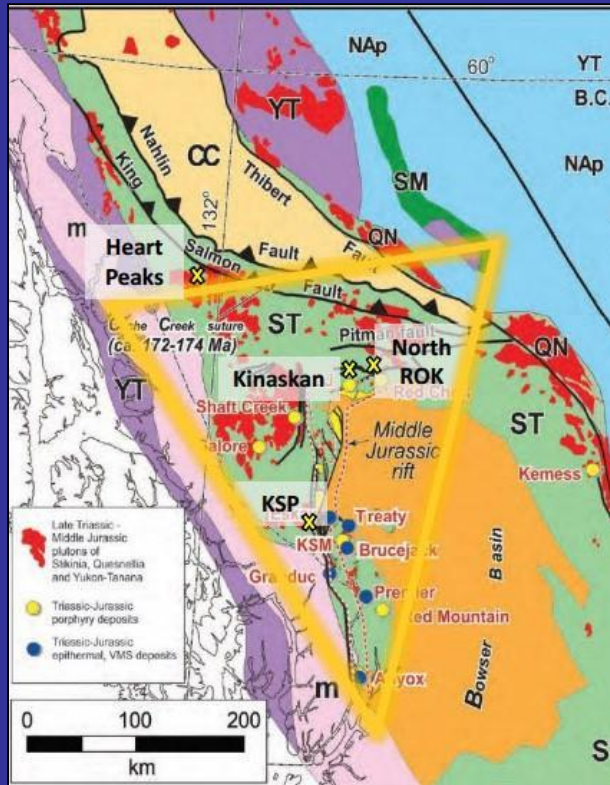
Stuhini / Hazelton Contact Map (purple)



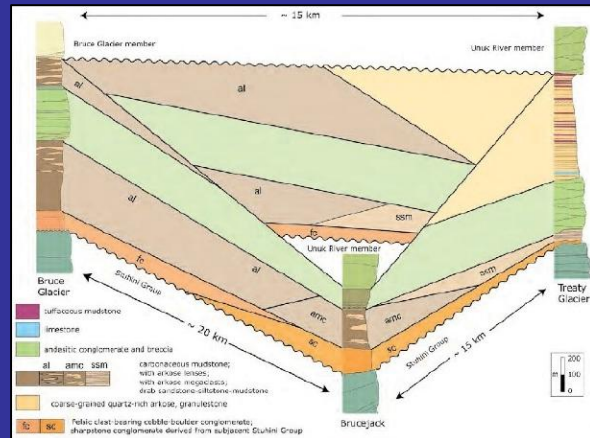
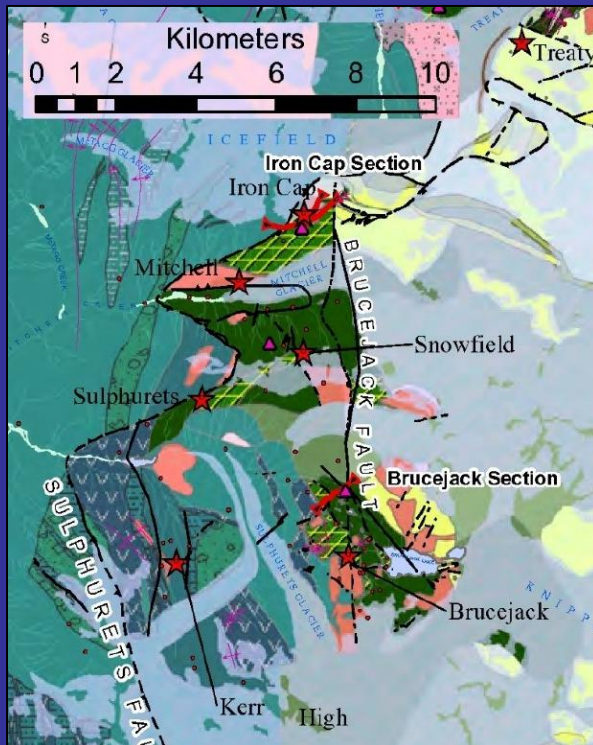
Recent BCGS Research in the Triangle

Publication Year

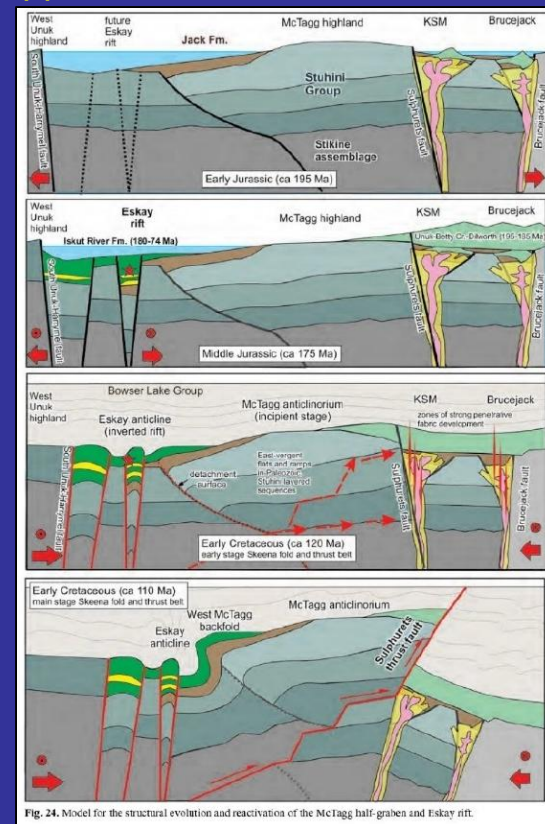
- KSM/Brucejack: 2014
- Bronson Corridor: 2015
- Kitsault - Red Mtn "2016"



BCGS Brucejack / KSM Research (2014)



Nelson, J., and Kyba, J., 2014.
In: Geological Fieldwork 2013,
British Columbia Geological
Survey Paper 2014-1,
pp. 111-140.



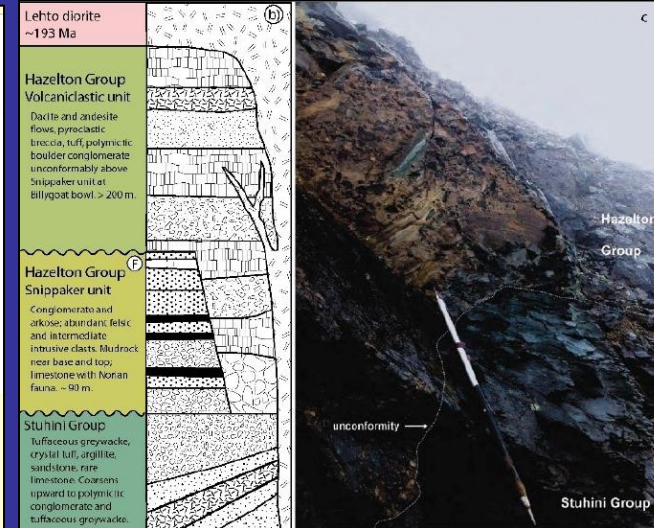
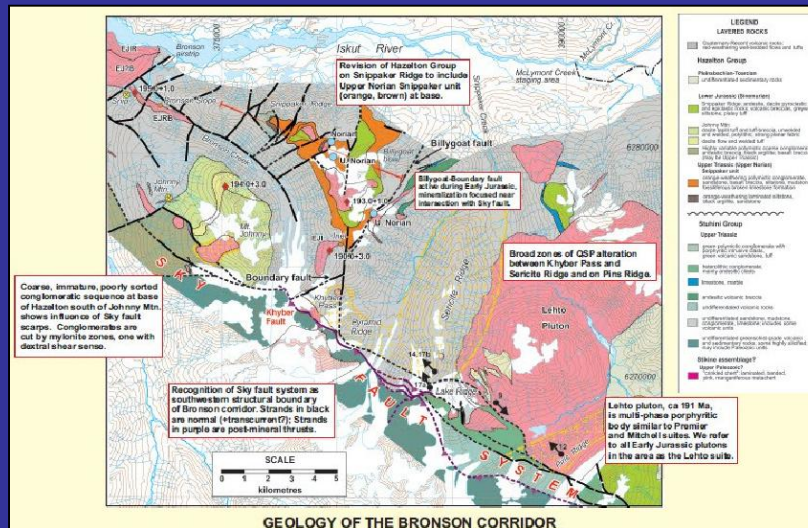
World Class Research!

BCGS Bronson Corridor Research (2015)



Steeply northeast-dipping normal-sense shear zones (yellow) on higher part of the ridge separate panels with low-angle normal shear zones. A single thrust fault (red) forms the hanging wall of strong quartz-sericite-pyrite alteration in 'Pins bowl'.

Nelson, J., and Kyba, J., 2015. In: Geological Fieldwork 2014, British Columbia Geological Survey Paper 2015-1, pp. 41 - 58.



World Class Research!

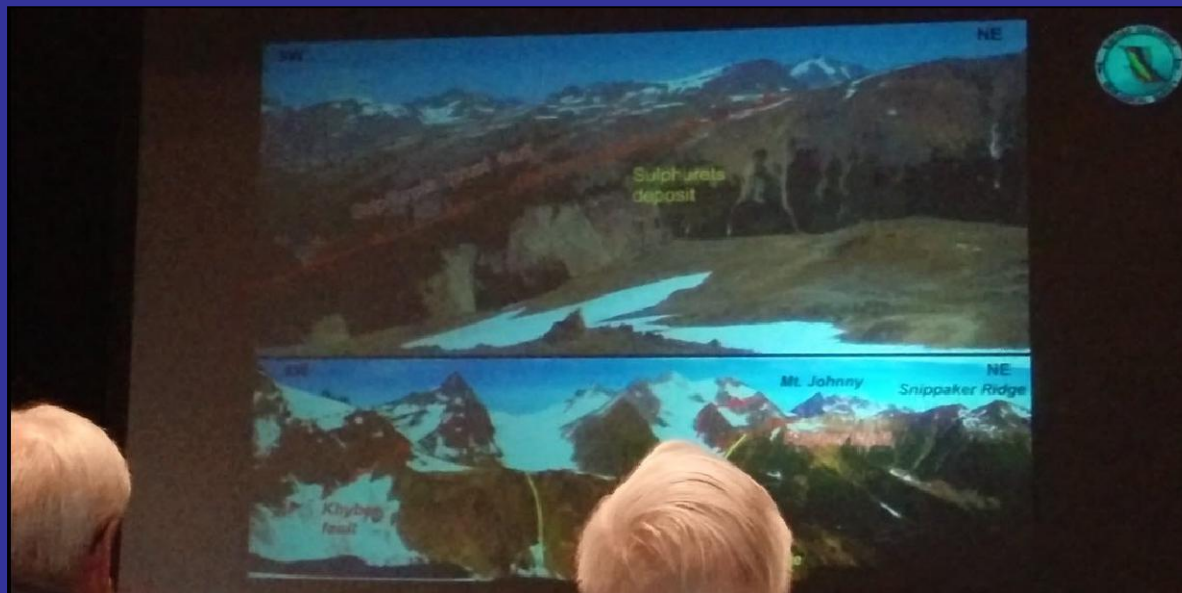
2014 / 2015 Research Conclusion

“In the KSM / Brucejack Camp and in the Bronson Corridor, Early Jurassic extensional +/- wrench faults and related basins controlled intrusion, alteration and porphyry and related mineralisation.

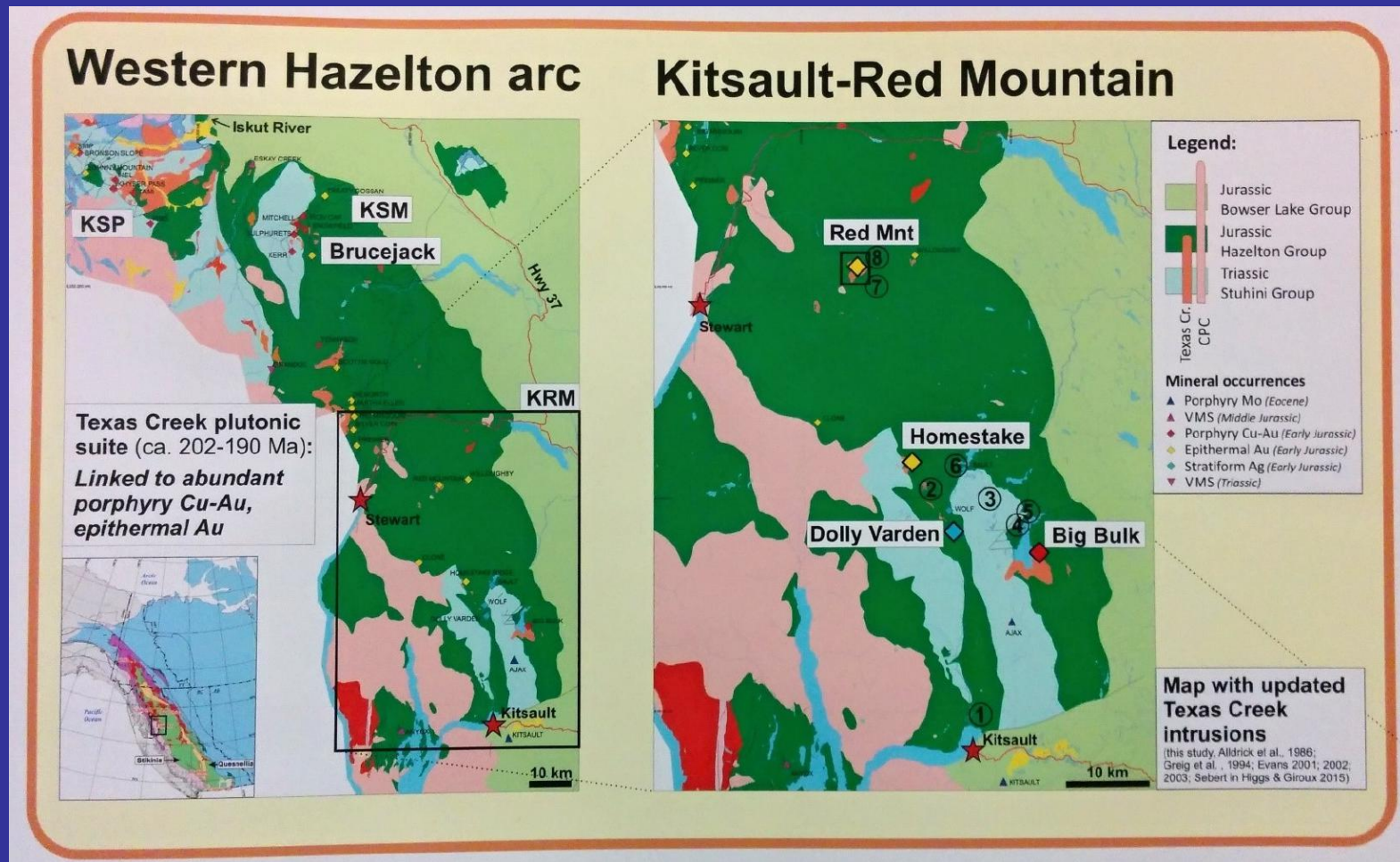
Footwall zones of pervasive QSP alteration facilitated later re-activation of basin-bounding faults as thrust faults.

Northwestern Stikinia porphyries – its all their faults!”

JoAnne Nelson
KEG Conference
April, 2015

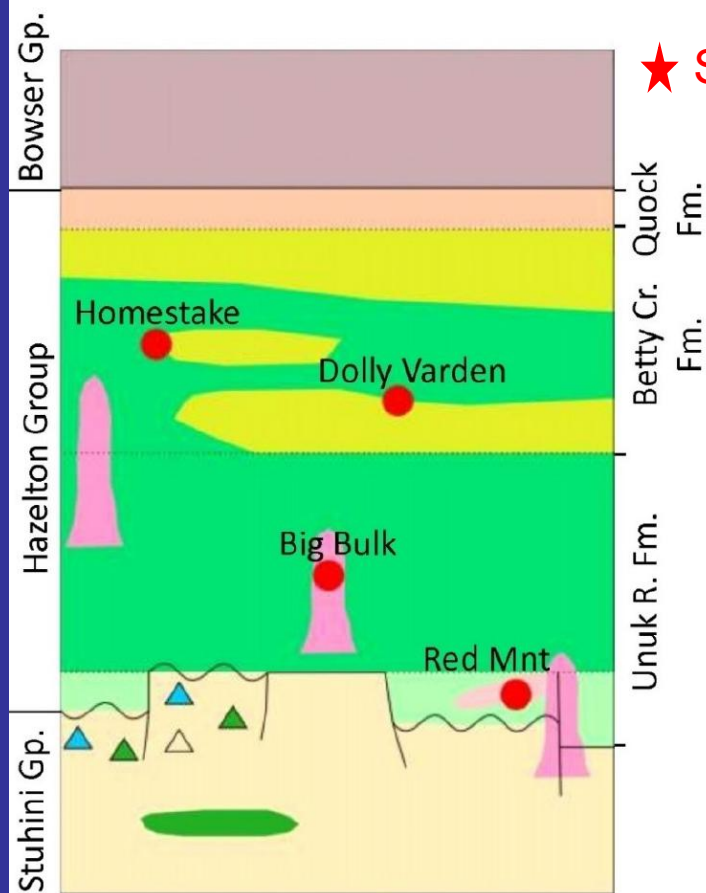


BCGS Kitsault – Red Mtn Research (2016)



BCGS Kitsault – Red Mtn Research (2016)

Summary



★ Same as KSM / Brucejack

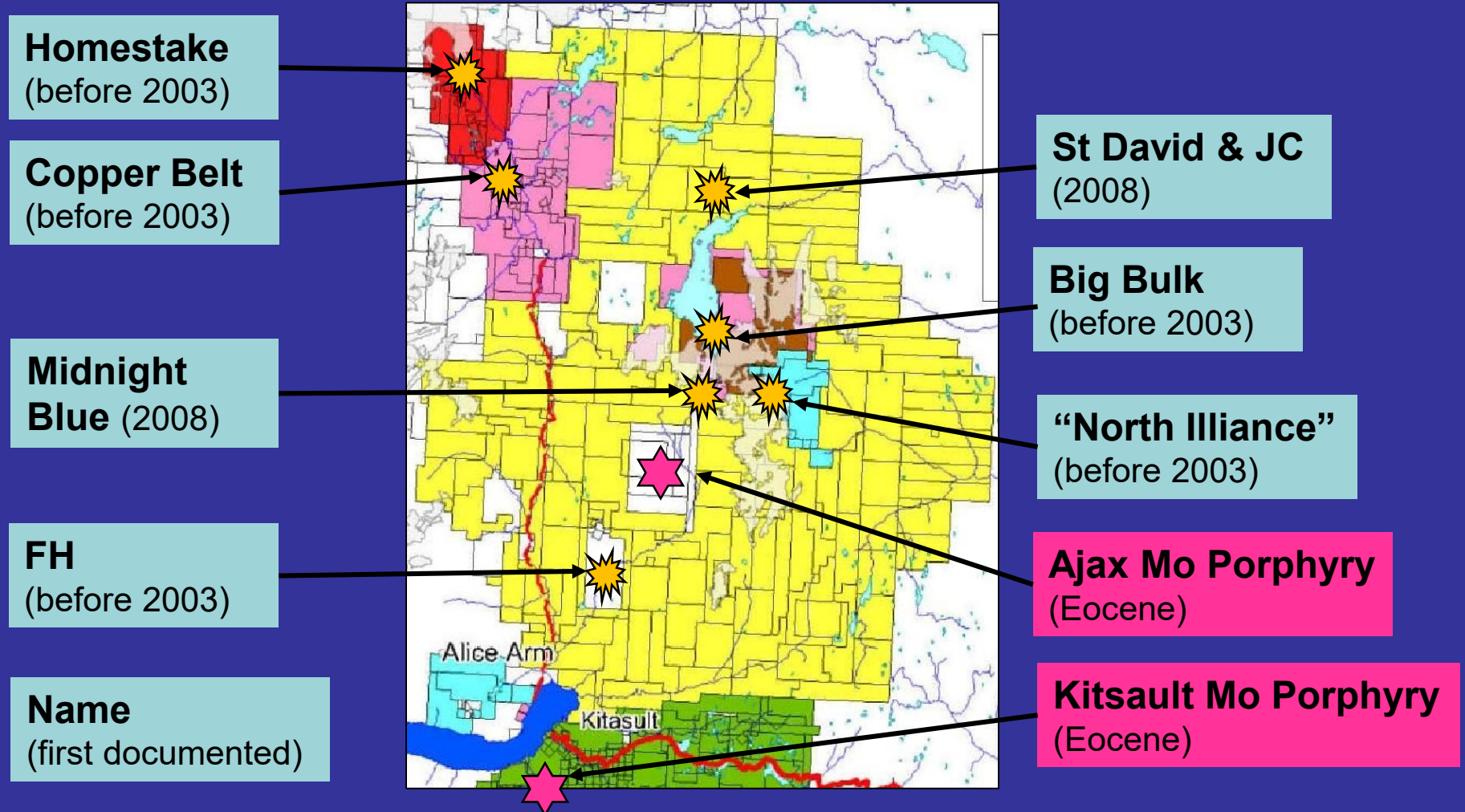
- Common Texas Creek intrusions ★
- Porphyry-style, epithermal, stratiform mineralization proximal & distal to intrusions
- Strong structural control

- No Jack Fm: too far from arc?

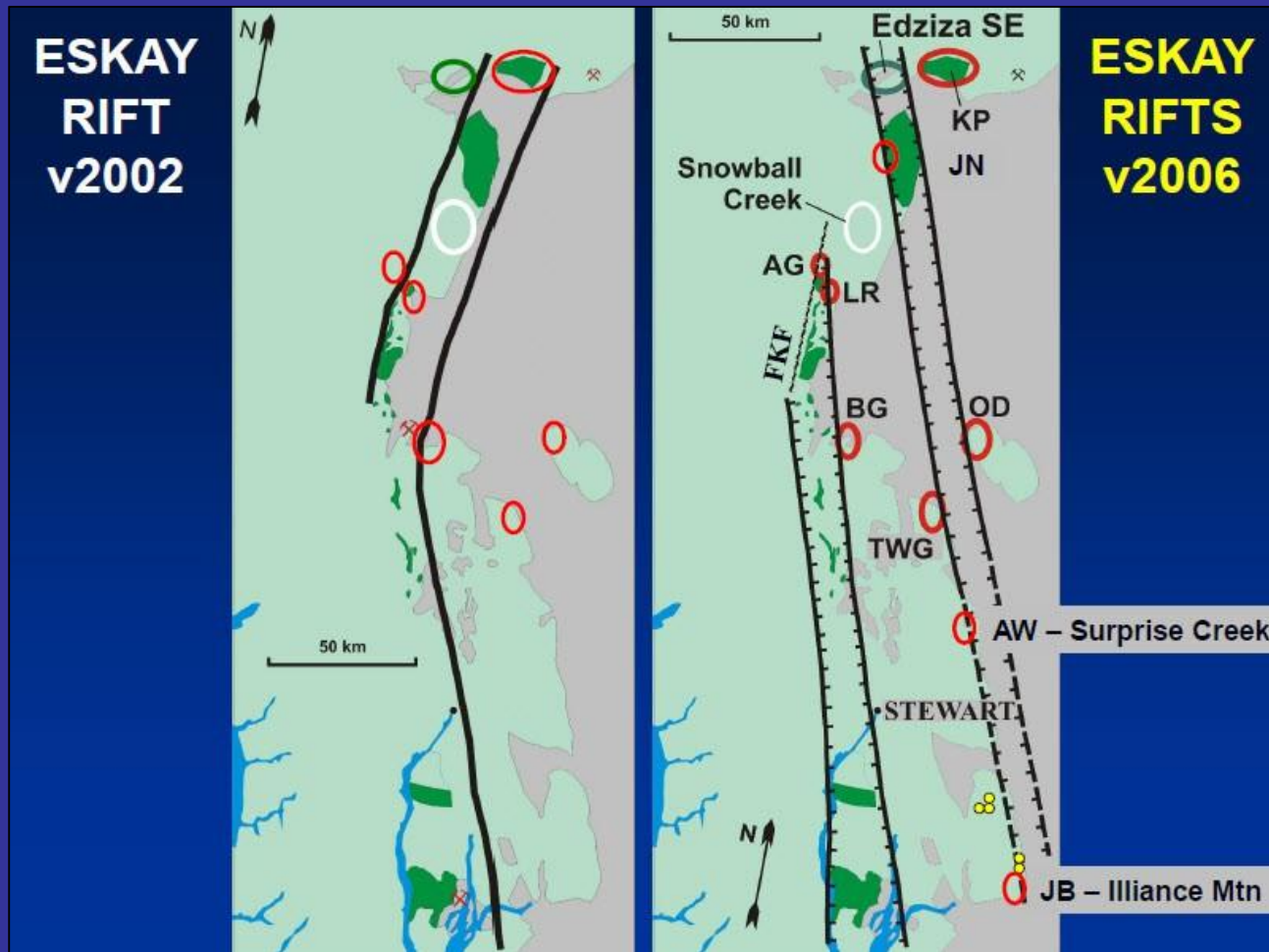
- Unconformable – conformable ★
Stuhini-Hazelton contact,
olistostrome → Tectonism

- Basinal siliciclastics (back-arc?)

The Kinskuch Area hosts many Au (Cu)-bearing Porphyries (likely all Texas Creek age)



The Kinskuch Area has Rifting

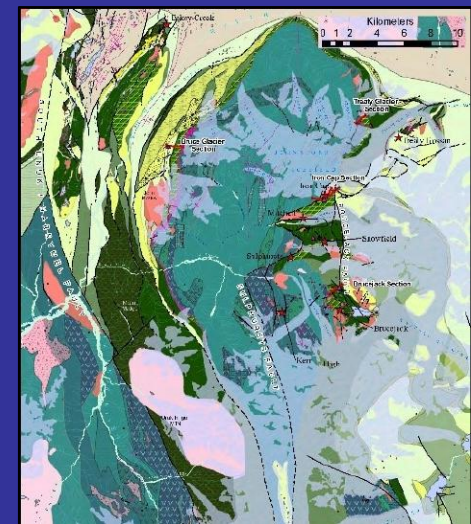
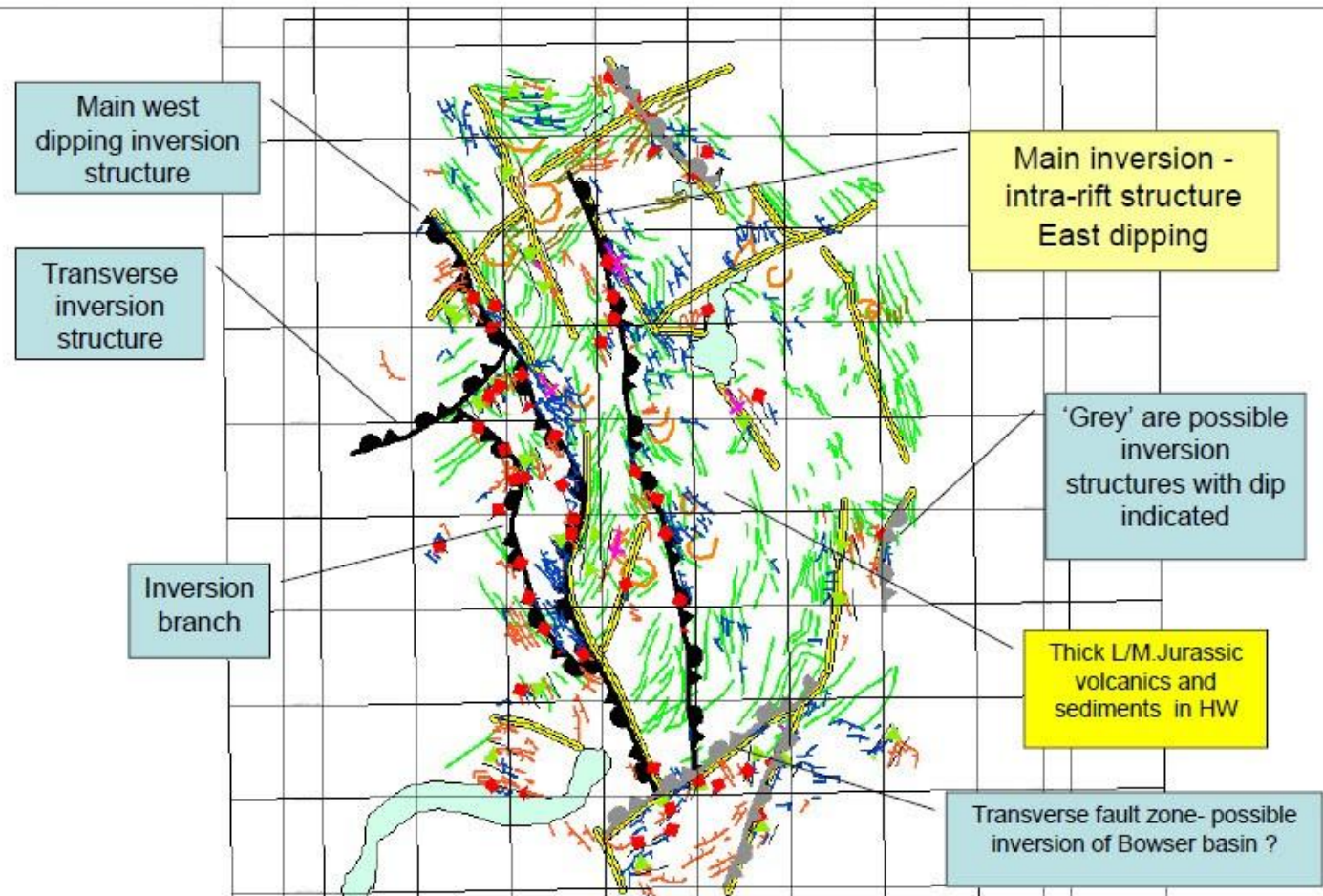


Alldrick, D.J. (2006): "RIFTS & REWARDS: Exploration Potential of Ancient & Modern Riffs"; BC Geological Survey presentation.

The Kinskuch Area has Inverse Rifting and Thrusting

Coller, D. (2007) in Assessment Report (2008);
Durango Capital Corporation

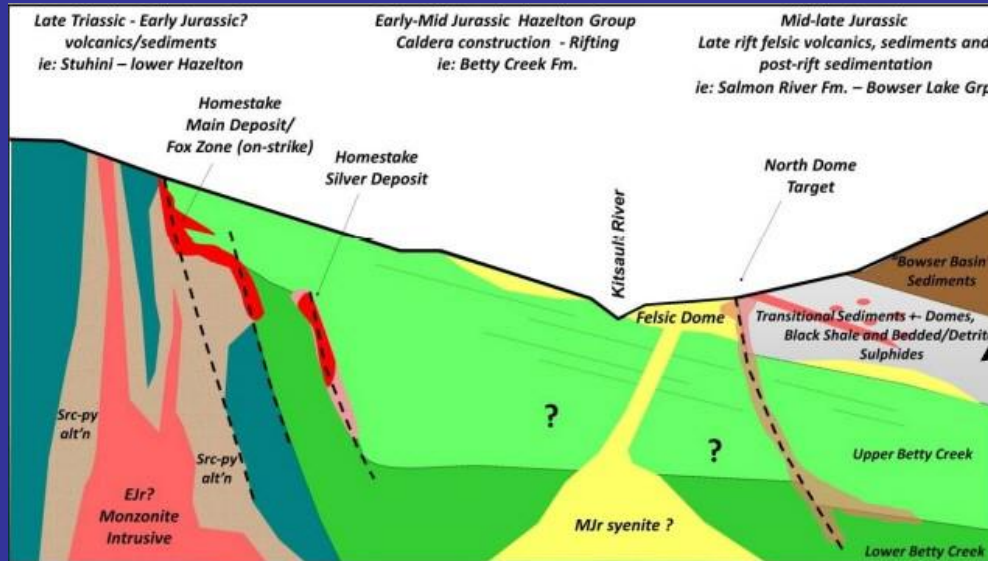
Inversion structures with regional fabrics and fold structures



Left Bottom: BCGS KSM/Brucejack study area shown at same scale as Kinskuch study map at Left Top.)

The Kinskuch Area has Epithermal Au/Ag and VMS Ag Deposits with Resources

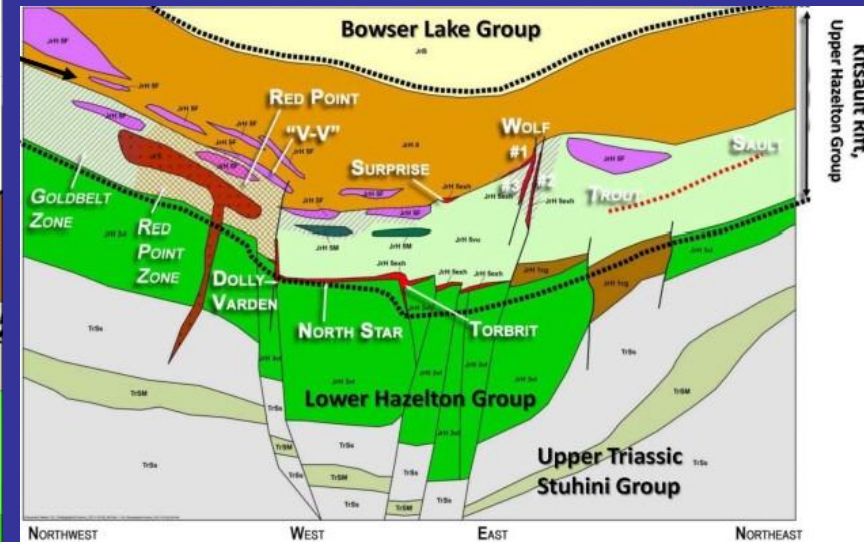
Structural model for the Homestake Ridge Epithermal Au/Ag Deposit



Source: Homestake Resource Corporation (2014)

Current Inferred Resource
8 million tons @ 3.7 g/t Au and 87 g/t Ag
(1 Moz Au and 22 Moz Ag).

Structural model for the Dolly Varden VMS Ag Deposits

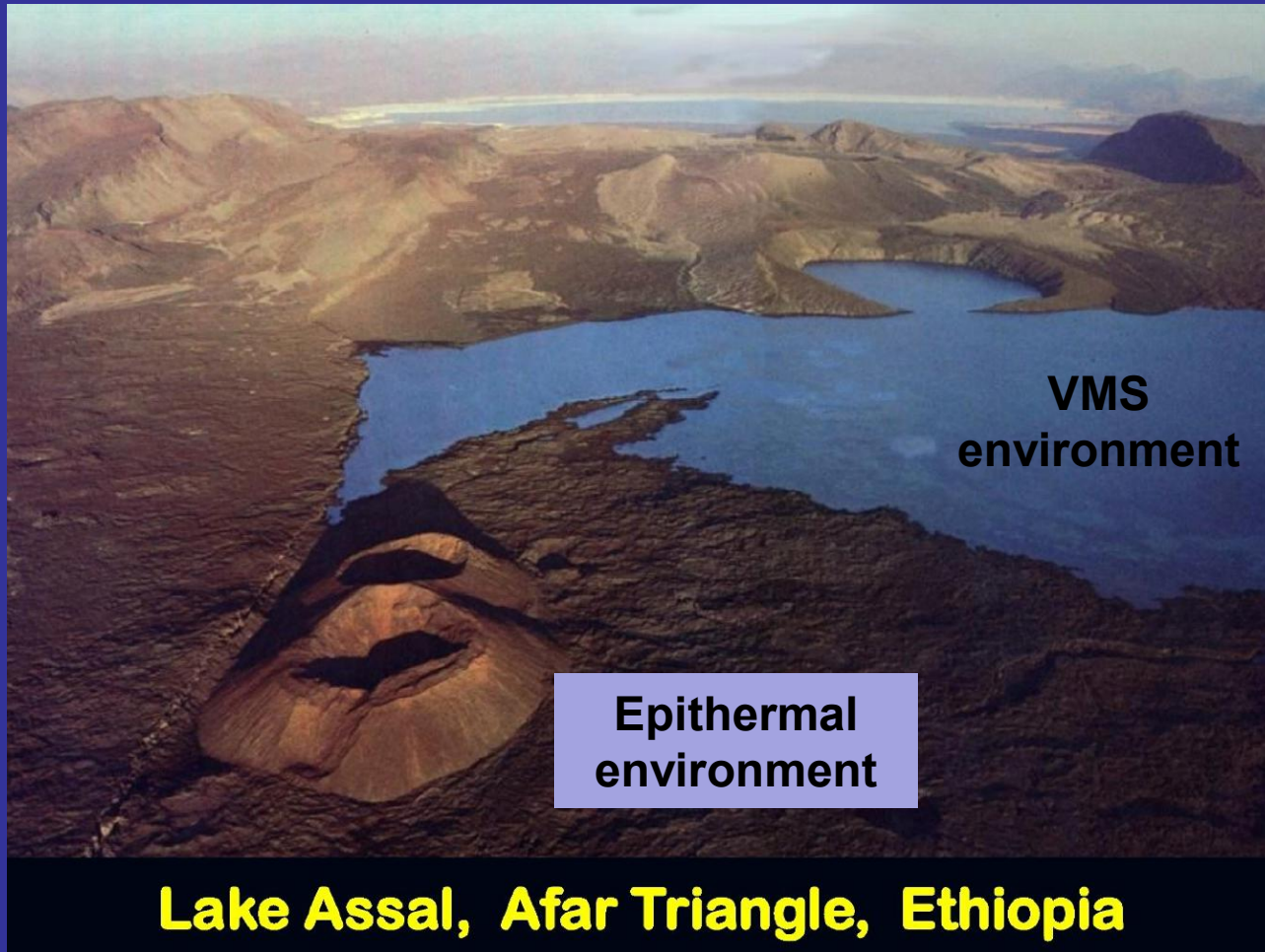


Source: Dolly Varden Silver Corporation (2014)

Current Indicated Resource
3 million tons @ 321 g/t Ag (32 Moz Ag).
Historic production = 20 Moz Ag.

Aside: Collier (2008) identified inverse rifting in the McGuire Anticlinorium – but not invoked in these interpretations.

Epithermal and VMS: Close Cousins



Alldrick, D.J. (2006): "RIFTS & REWARDS: Exploration Potential of Ancient & Modern Rifts"; BC Geological Survey presentation.

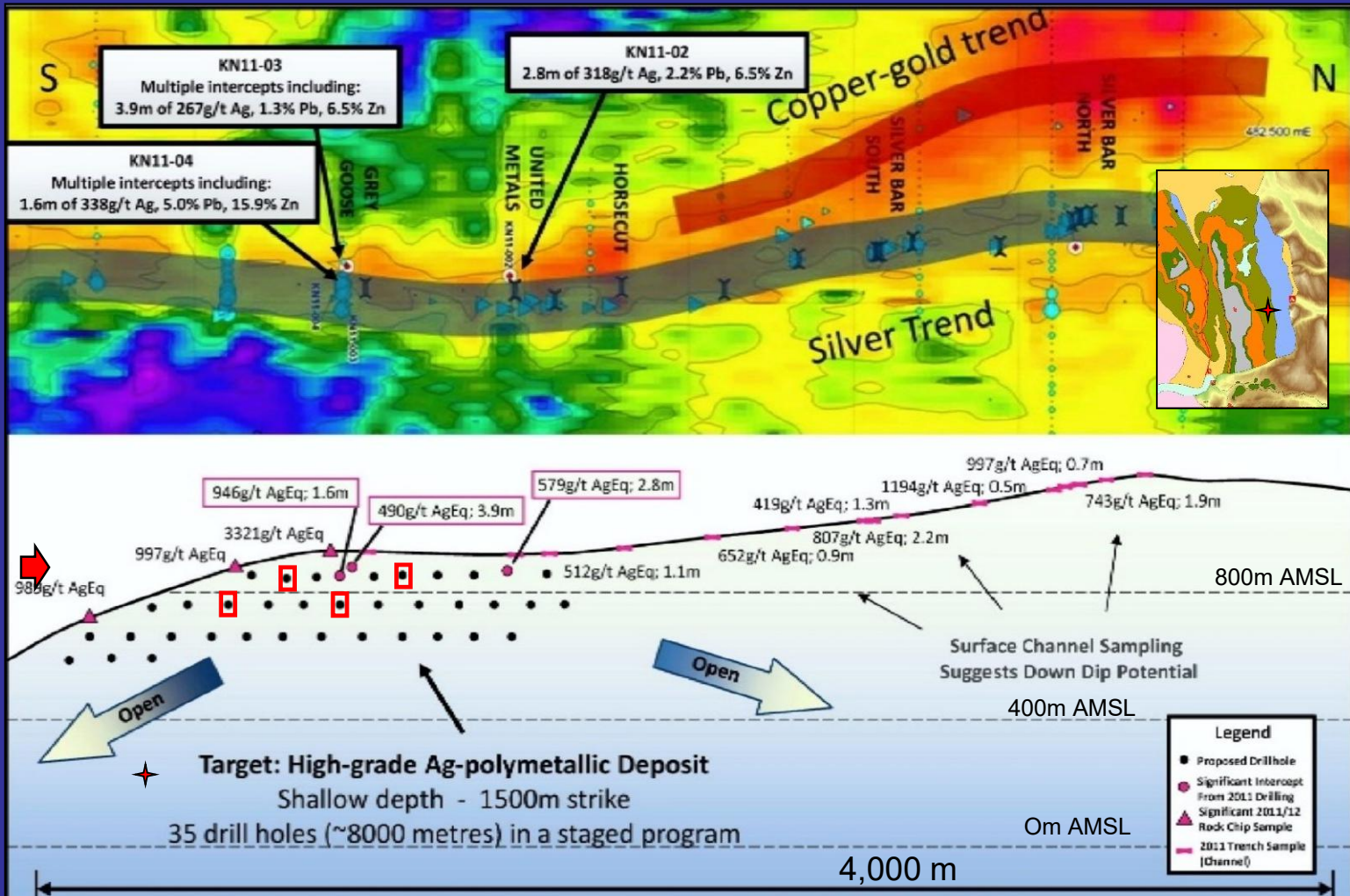
... and new VMS Drill Targets at Illiance

Target: Dolly Varden / Homestake / Eskay Creek – Style Gold / Silver / Base Metals deposit

Primary Evidence: 2011 DDH intersections; Surface channel sampling; 2011 Airborne EM conductivity anomaly.



Massive Sphalerite & Galena



2011 Results:
KN11-03
 3.9m @ 267g/t Ag,
 6.5% Zn & 1.3% Pb.
KN11-02
 2.8m @ 3.18 g/t Ag,
 6.5% Zn & 2.2% Pb.

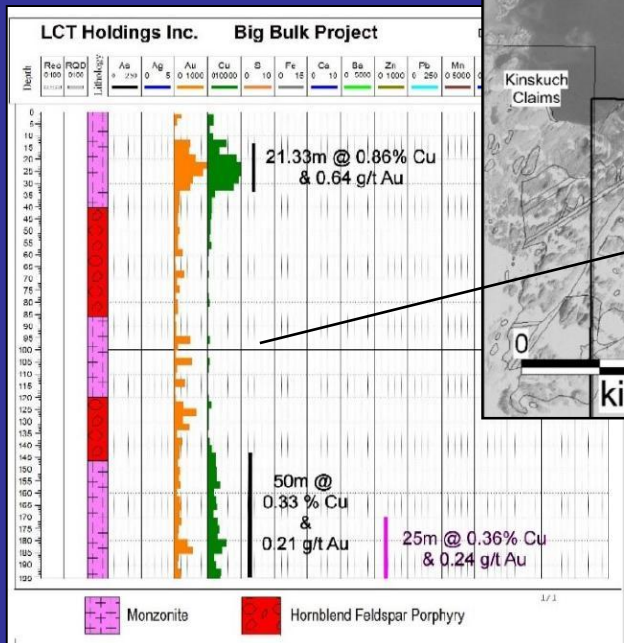
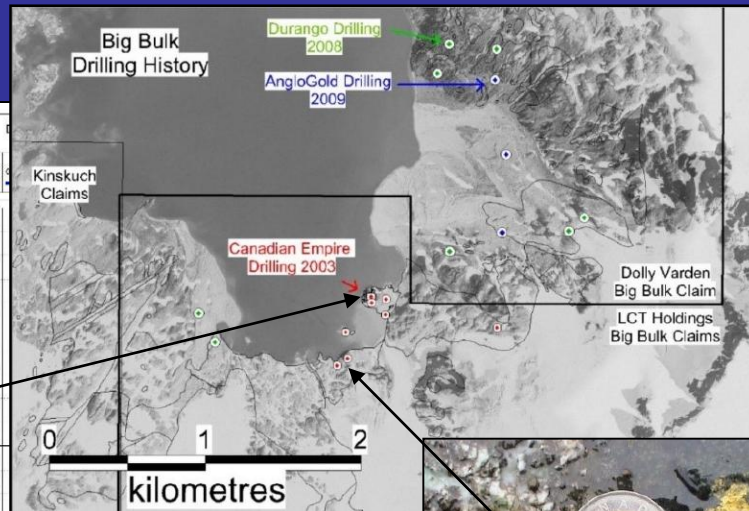
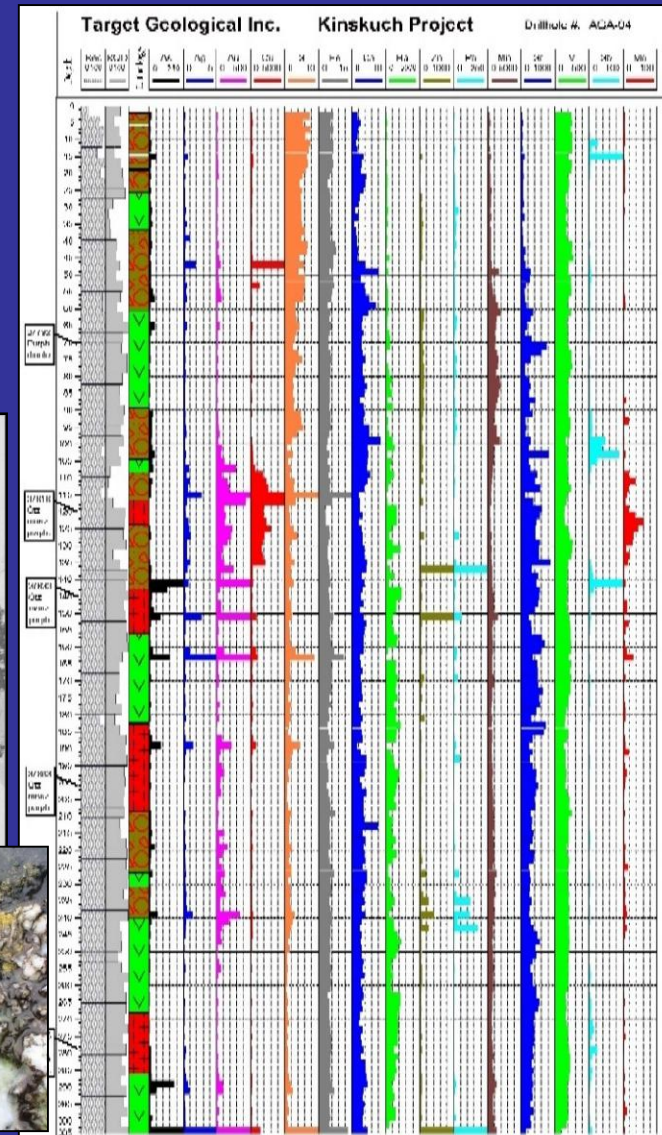
Borehole AGA04 (2009)

... and Au/Cu-mineralized porphyry targets with visible epithermal gold (telescoped?)

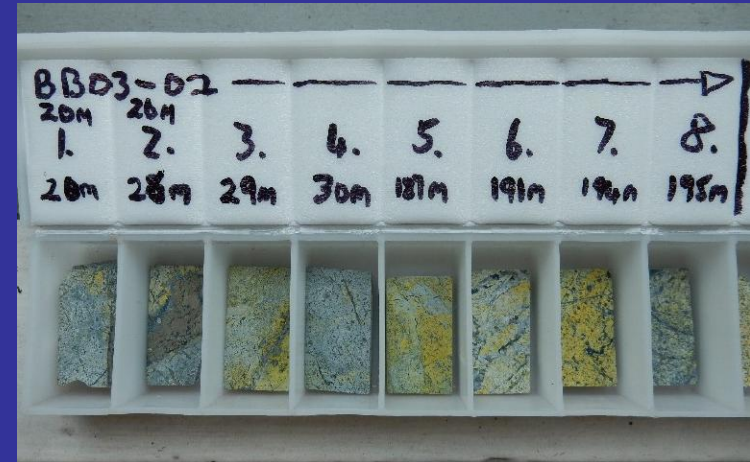
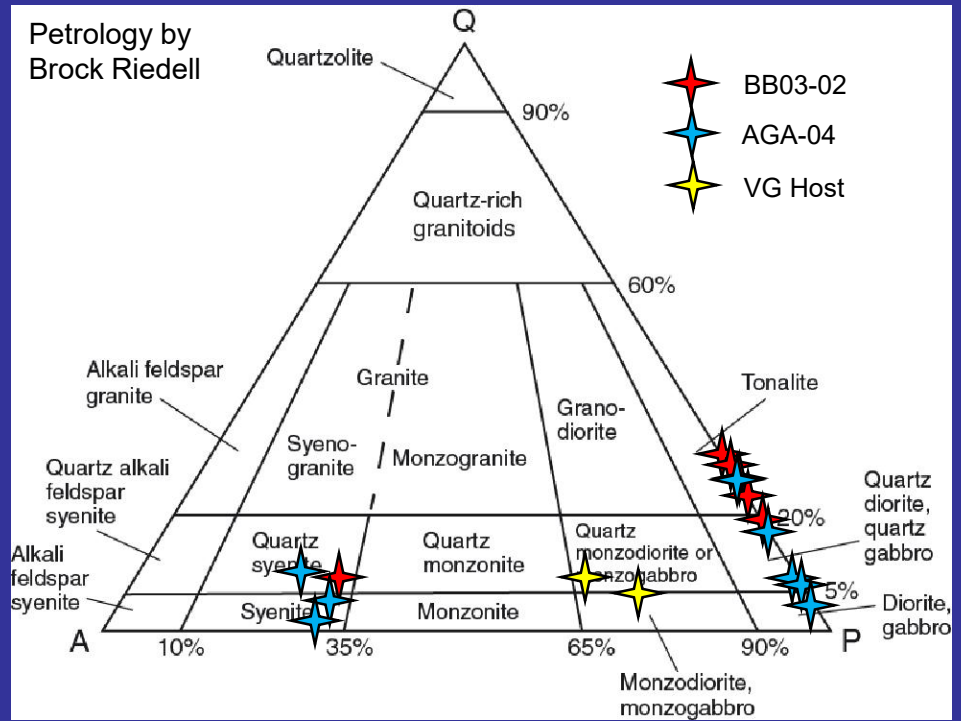
21m @ 0.86% Cu 0.64 g/t Au (12m – 33m) and
50m @ 0.33% Cu 0.21 g/t Au (145m – EoH)
in BB03-02

Au Cu S

Mo



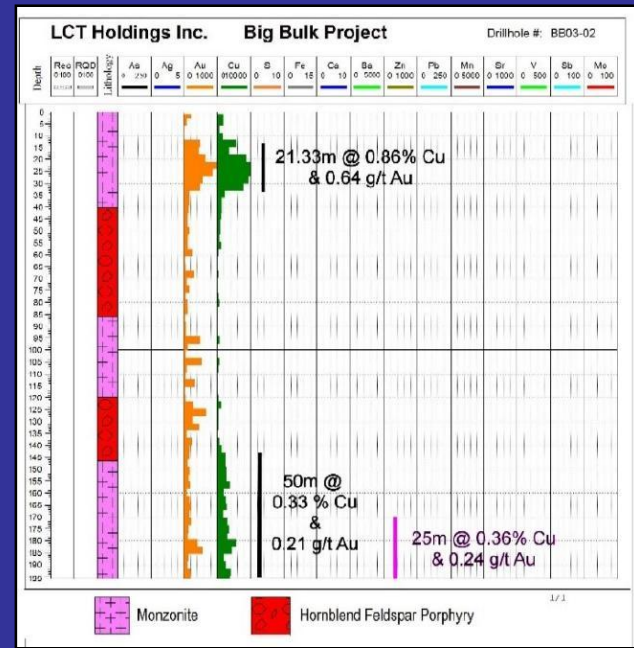
Big Bulk Drill Target: Modal Mineralogy



Multiphase Intrusions

Multiphase Veining

Visible Gold (VG)



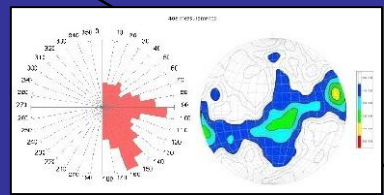
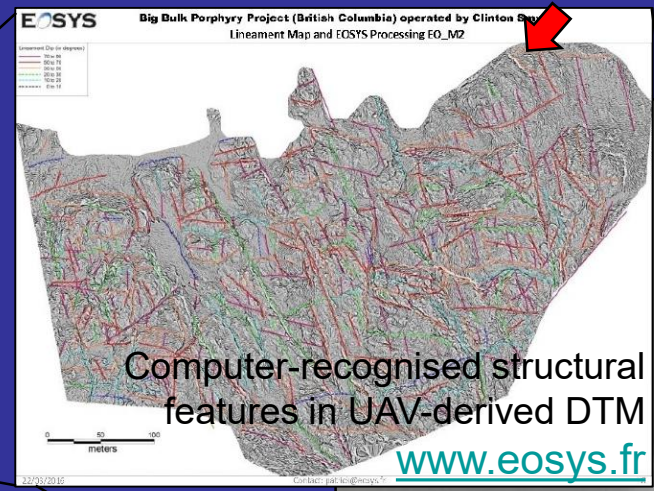
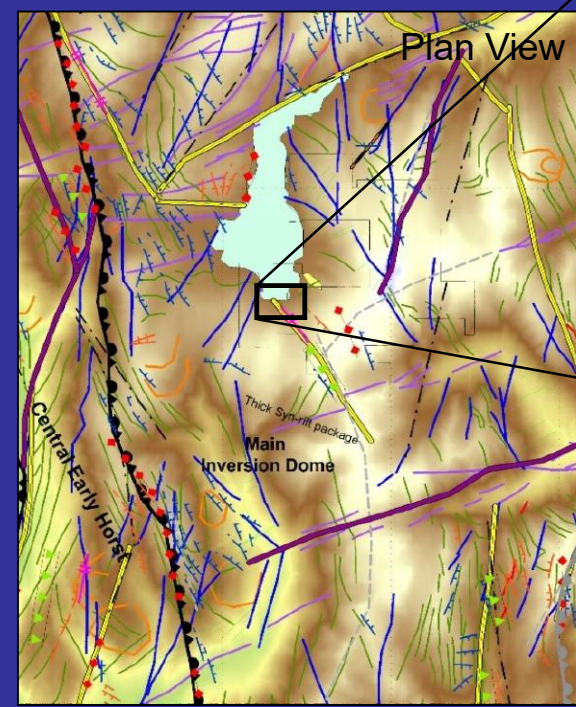
Big Bulk: Structure

Key Elements: Rift inversion was documented in 2008 by Coller at Kinskuch and in 2014 by Nelson at Brucejack - where mesothermal Au mineralisation is post-Texas Creek age and structurally controlled. High resolution UAV-based photogrammetry for structural mapping was initiated at Big Bulk in 2015.

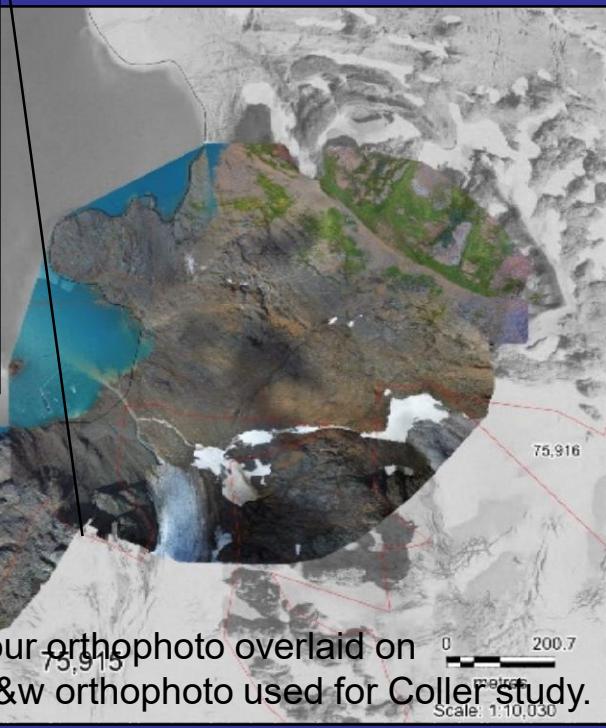
Work Required: UAV-based photogrammetric survey of the entire Lavender Mountain massif as the basis for detailed structural mapping of the Big Bulk intrusive complex.



Major structures identified
by Coller in 2008.



Rose Diagram & Stereo
Net of above features
www.eosys.fr

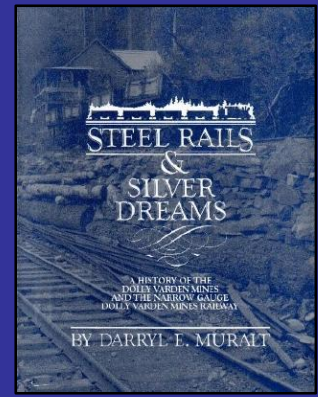


Cm-resolution colour orthophoto overlaid on
meter-resolution b&w orthophoto used for Coller study.
Scale: 1:10,030

Big Bulk: Mining Logistics

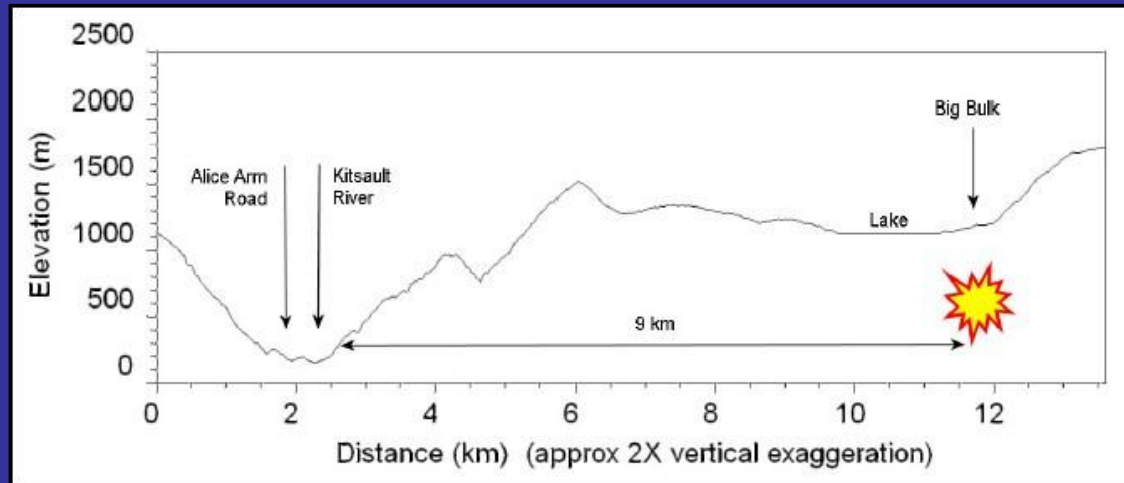
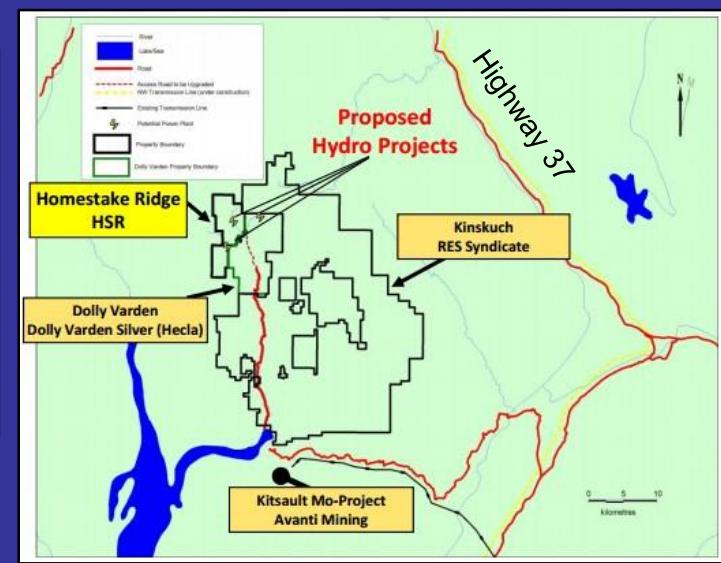
Key Elements:

- * Vehicle access to Kinskuch boundary;
- * Kinskuch property is alongside tidewater;
- * Powerlines run to Kinskuch boundary;
- * Long history of mining at Dolly Varden;
- * Neighbour to ~\$800 million fully-permitted Kitsault Mo mine-development project;
- * Neighbour to ~1M oz AuEq resource at Homestake Ridge;
- * Neighbour to ~40M oz Ag resource at Dolly Varden;
- * Tunnel access (7 - 9 km) possible from Kitsault River valley to 800m below level of Kinskuch Lake



"Steel Rails and Silver Dreams", available on Amazon, documents the history of the Dolly Varden silver mines.

Local Infrastructure

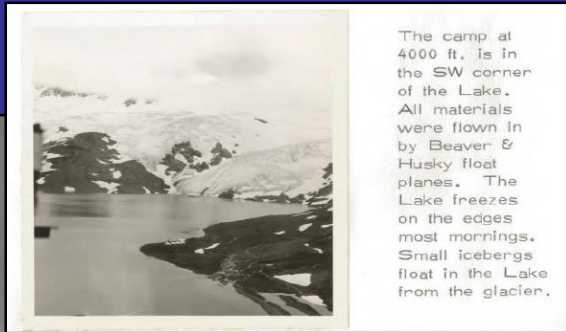


Horizontal tunnel access is possible to almost any u/g mine site within the Lavender Mountain massif.

Big Bulk: Glacial Retreat exposing Mineralisation

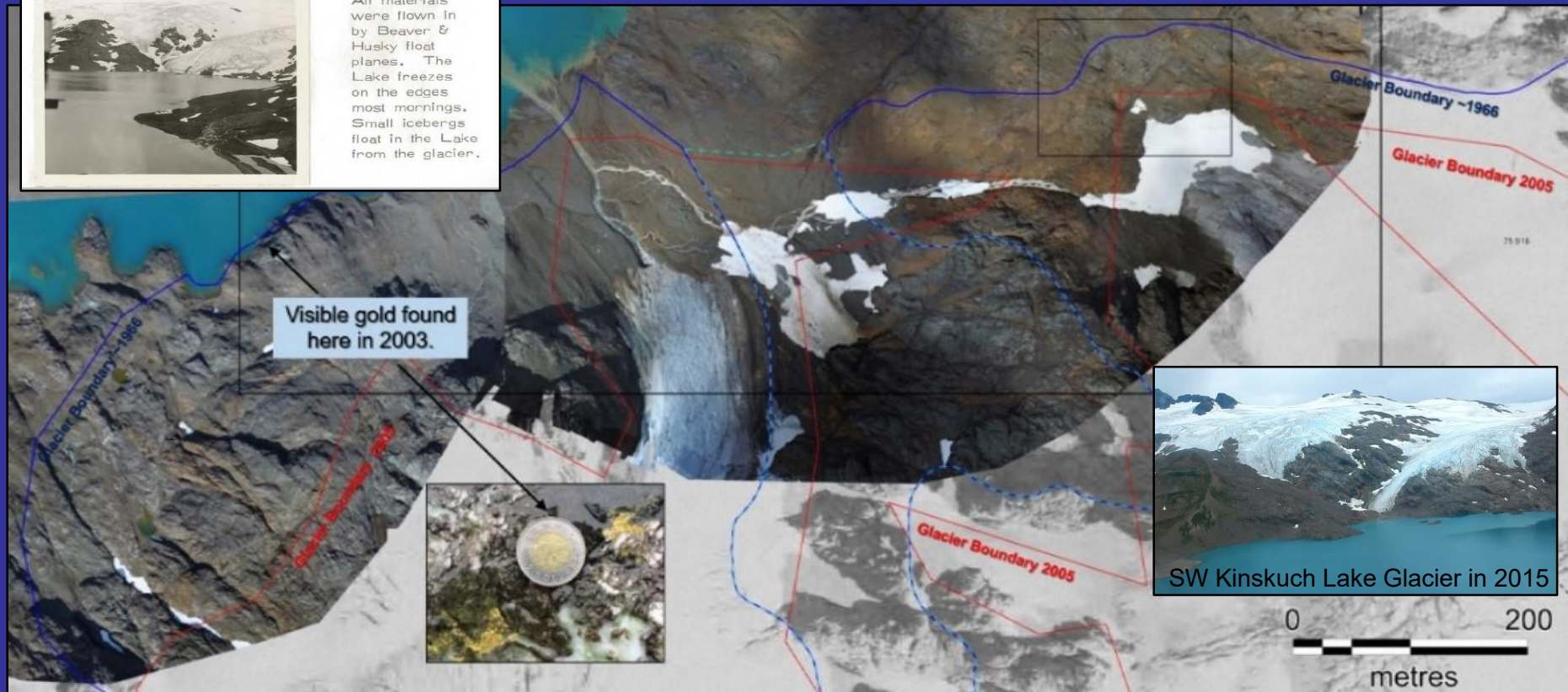
Key Elements:

- * Significant glacial retreat over Big Bulk since Teck Corporation mapping in 2002 (documented with 2015 UAV-derived orthophotographs);
- * The same applies to glaciers over mineralisation observed in other parts of the Lavender massif, last prospected in 1991 (see next slide).



SW Kinskuch Lake Glacier in 1966

Below: 1966, 2005 and current glacier edge over Brianne Zone of the Big Bulk system (Roundup 2016 poster extract).



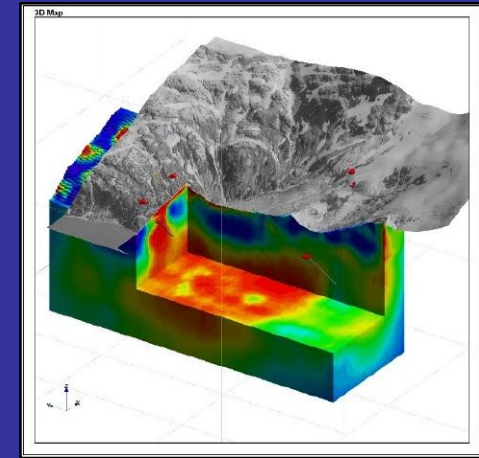
Kinskuch: Geophysics

Key Elements:

Big Bulk is on the western flank of a 20km by 10 km regional magnetic high which is oblique to the NW strike of the – the likely extent of a multi-phase intrusive system.

Significant chargeability and resistivity variation has been mapped within the system.

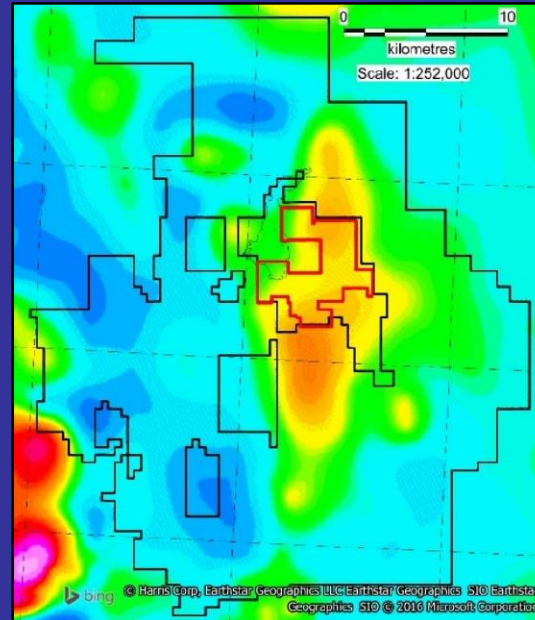
3D Chargeability Model
(BB view to South East)



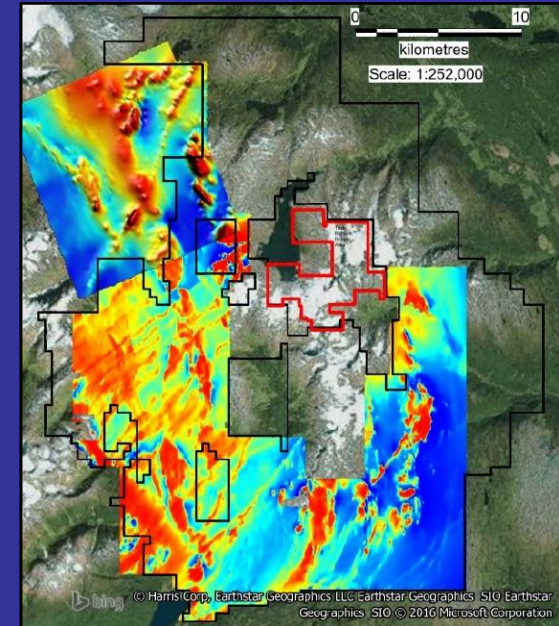
Geology



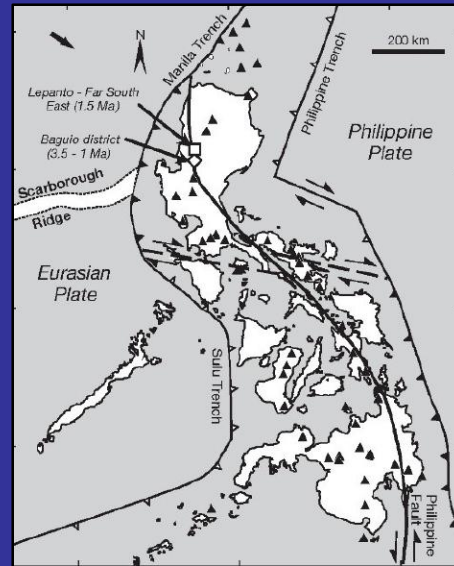
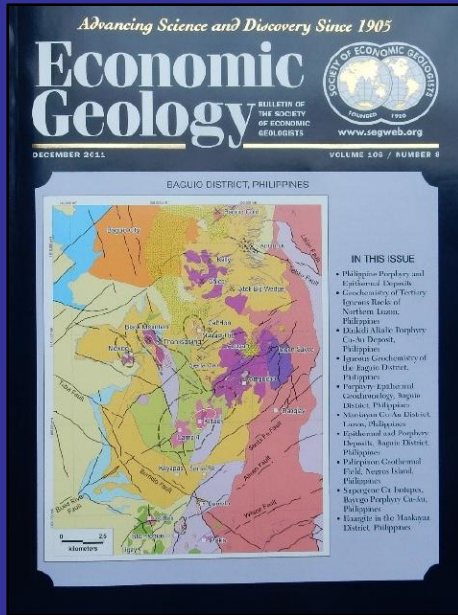
Regional TMI



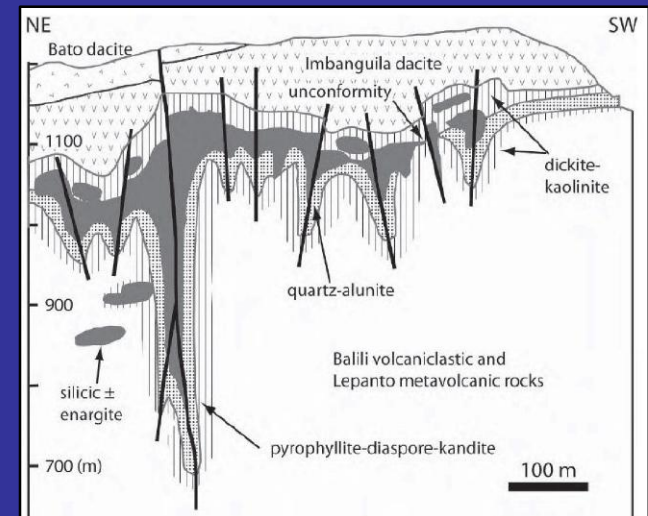
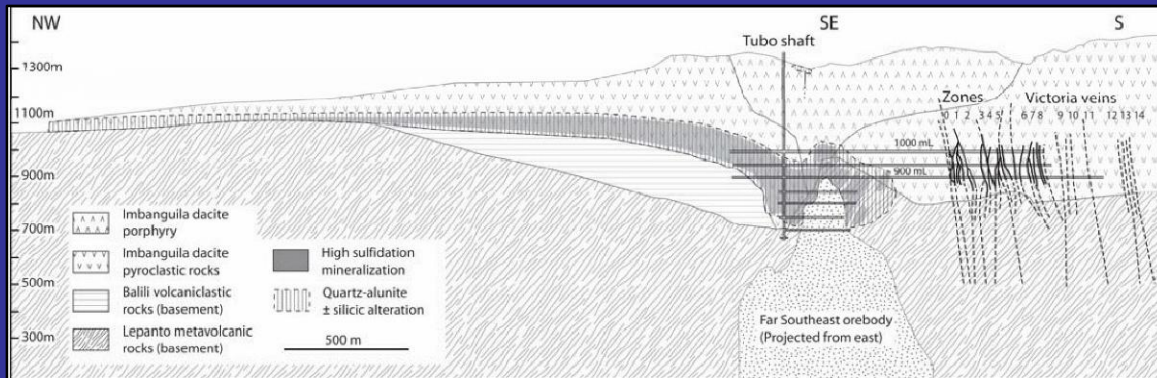
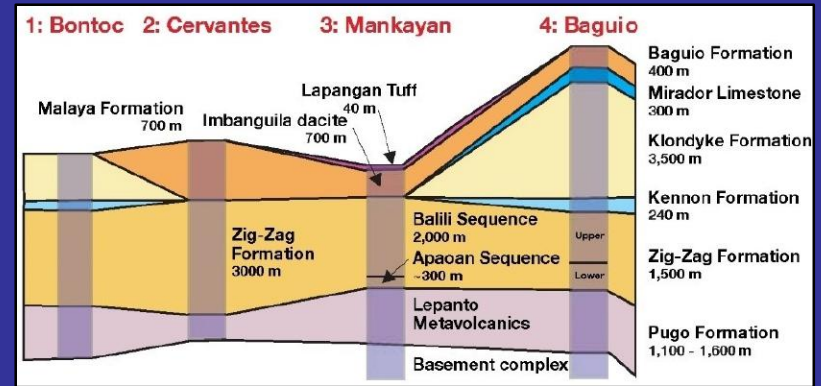
High Resolution TMI



Another Relevant Model: Baguio Area, Philippines

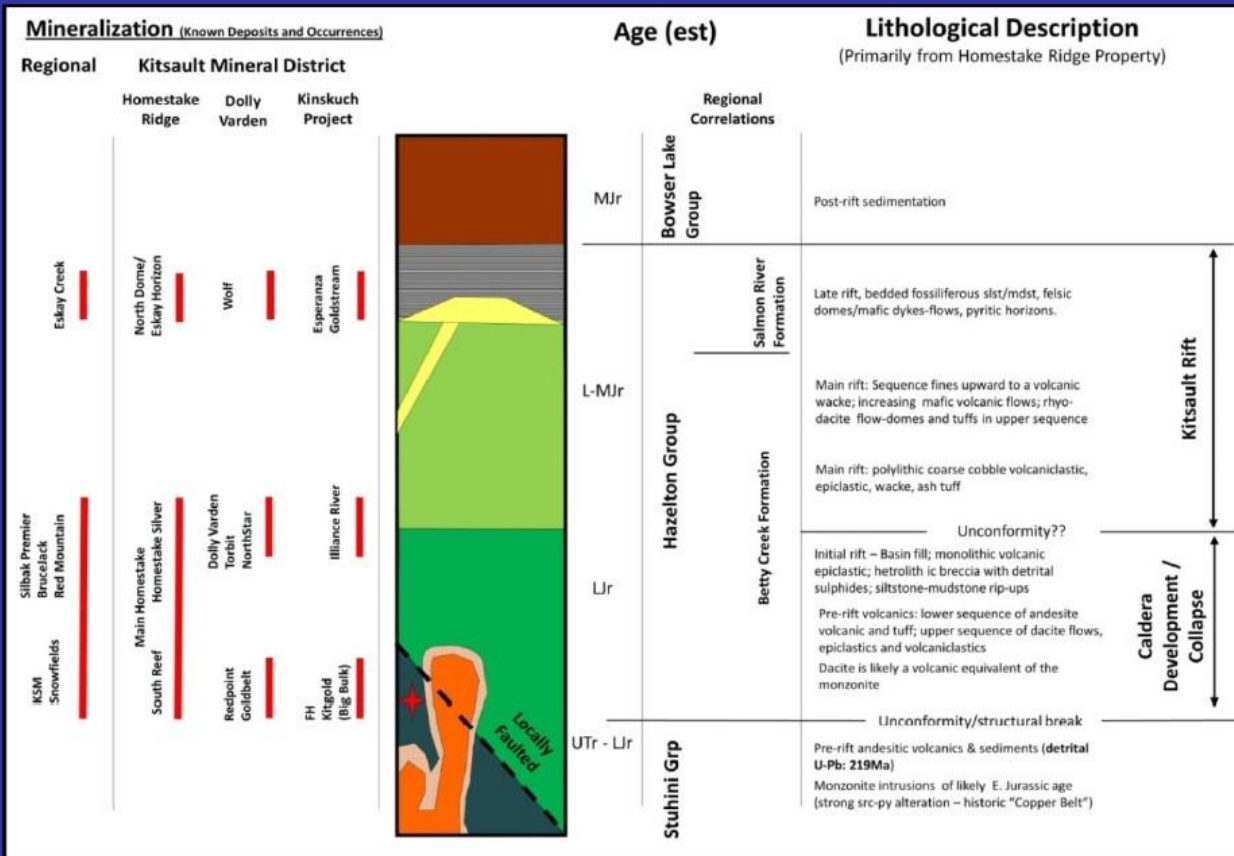


Economic Geology, Vol 106, #6
(2011)

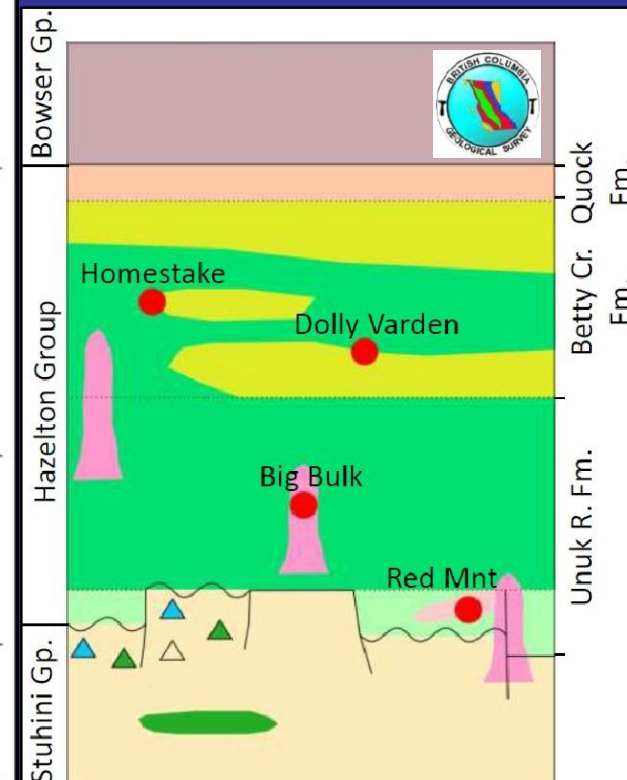


The McTagg and McGuire Anticlinoriums: Comparative Stratigraphy and Intrusive History Another World Class Report >> World Class Discovery?

Source: Homestake Resource Corporation (2014) - Rob Macdonald



Source: BC Geological Survey
(Van Straaten, 2016)



Georeference
Online Ltd.

BC's Golden Triangle

It goes to Kitsault!

KEG Conference
Kamloops
12 April, 2016

More information at:
www.bigbulk.ca



(Because he says so.)

Bram van Straaten,
Senior Minerals Geologist, BCGS,
at Big Bulk on Kinskuch Lake,
near Kitsault, in 2015

Interactive online map available at:
<http://editor.giscloud.com/map/464394/kinskuchview1>