803884

MDRU – Iskut Meeting   Nov. 19/93

James – general, budgets etc

Peter Lewis –

South Unuk R. Shear zone
– 2 fault-bounded packages at Granduc Mt.

Bucke Glacier Stock 221 Ma

– E. seq. andesite upper Iskut?

– W Granduc Seq. – strongly deformed
intruded by 221 ± 1 Ma Bucke Gl. Intr.

– S. Unuk R. Shear
sinistral deformation
– sl. oblique sense of def.
– local mylonitic layering schistosity to gneissosity
– two periods of folds deform shear layering
open
– cut by Eocene pluton
but fol. affects Bucke Cr pluton

– Shear zone is kinematically consistent w Cret. Skeena R. fold belt
110 – 100 Ma Mid. Cret
K-Ar dates could date meta. & deformation

local amphib.

probably 10's of km of sinistral motion

Keith Patterson Troy Ridge
= objectives to describe
Betty Cr. & Mt. Dilworth Fms
& contact relations of Premier
Porphyry
— 2 weeks of mapping
— thinks Betty Cr. bedded units
~100m cut by Premier Porph
but perhaps some bands
— perhaps both
— 1m thick bioclastic unit
bivalves, corals & a few belemnites
— pyjama beds tuffs + silts
— local convoluted Sal. R. Fm bedding
— large folds in Bowser L. Group
showing a lot of strain

Andrew Davies
Jake Margolsis
25 tons 0.083 ± 0.08
200 mill. 0.025
= hs albite dykes + flow ~ seawater
shallow alt.? including hs
water armored lapilli in upper Betty Cr.
— 189 Ma Pre Porph E side of Br. Fold
Syn Betty Cr. ✓ ✓
— Constn. age 40 pt

Qz Sy Granite
drove the system
Qz Sy + Granite
2 feld monzonites
hypersolvus XH, of loss of coarse

stage 2 cp inclus in py in gz mo ser (younger intrusive)
Stage 3 mas py (cp) bn

Stage 4 qz bars pyrophyllite ser veins & diss

Iron Cap mas. py veins to 10m
@ late qz qn sp & Au (to 200g/t)

Alder Zone small mas py br. pipe
0.19 g/t Ag
qn + sp veins introducing
Au in br. (late)

Mitch. Zone mag + chl & ser
stage 2 overprints on early
potassic alt.
Cu:Au cor. is very high
high salinity early porph
type.

Qz stockwork younger & higher
than Mitchell Zone

Snowfield Au depletion of Mn + V
good As : Au correlation
diss spess. garnet (Mn)

O isotope 330° sericite
520° potassic
near sea level meteoric water
in alt
δD δ18O ratios

– sub alkaline vol. rocks
clv development proportional
to % phyllosilicate in the rock
clv ~~dev~~ post mineralin age
plane shear flattening
rather than simply sh. @
– ~~folded of~~ ~~[illegible]~~ veins
deformation lower ing
py all fractured @ ~~[illegible]~~ rolling
– strong evidence of SE
vergence in ~~thrust~~
– WNW clv. locally cut by thrusts
; probably earlier + thrust

– earlier Alaskan thrusting
S – SW vergent
rotation of foliation right lat
displacement of Brucl. fault
veins SE vergence
meta:
– 200 °C meta only
Ar – Ar 110 Ma last heating event
Lower Jur. 200 ± Ma hydrot tourmaline
qz sy 193 rel. to min. 192.7 Ma
Stage 2 Mo B F qz ser py chl
distinct younger than
Stage