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78285000 →
4/8 mid level some
isolated bright level
140 ø 25 knots -30
21:30 weather v. 130
5-10 ex 60 km to seaward
in top forth

strong 6/8 straining
cloud low by 5.30-6.00
-3 ø 140 ø 45 ø end of
1/45 turn cooker
top door fit like uphill peak.

18 ø 15
13/14 mid level at base
good knit 29 ø 5 11

745 øm 29/12/71
Wind 130 ø ø 20 gusty to 30,
7 states of clear - mid level
cloud over planken with some
deriving to SSE, very true
cloud to low cloud and to
sun
ø
Weather logs (East Island) 27/12/??

Lava flow

S 235-35 = 180

Grey (dirt) black

Dip 60 E

Streaky flow defined by elongate px aggregates. Medium grained. Fairly homogeneous. Some range in grain size. Streaky layers also defined by grey translucent (greasy looking) Feldspar aggregates. Dip average - moderate to E.

Conformable and crosscutting layers (10-20 cm wide) of feldspar + black px (veins) - slightly coarser-grained than rest of rock.

* Spec 78285001 - fresh

(in fresh sample appears to be no garnet)
Some ice polished jags near bottom of hill. Isolated patches of honeycombed weathering further up and at top of hill.

Mats of feathes and excreta on some platforms of the rock. "Adelie rookery" not occupied while we were here.

Two thin px ps f (keratophye) veins (up to ~1cm wide) cut foliation.

Grey-blue quartz veins

A quartz-feldspar lens

50 cm x 2 cm conformable with foliation of massive gneiss. Also on this same island another sliver slightly longer wider than above & slightly discordant to foliation.
Jointing prominent in places
S. 190 - 55 = 135
D: 73 NE

Photographic - px - q - f lines tightly folded on microscopic scale
< - country px foliation weak

Grey translucent fold

Some folded px - q - f veins (slightly coarser grain than country rock) also appear to be drag folded - places

In places network of late crosscutting px - f fold veins cutting conformable px - q - f vein (slightly...
courage. god that country (x)
0. Trend of major dykes
- N-S dip steep W

Major layers concordant with foliation presumed to be metarenite because of composition.

Imaginary fold refolded by kink fold set.
Conformable pegmatite layers
Il to country rock foliation
n places close to contact
with pre-plagiocore yet bonding-
ing. Appears that country
rock has in places become
molten & where in contact
with magmatic layers the mag-
layers has formed enpilte
contacts with the molten
peg rock. This event is
generally agreed to
be coincident with F^2
(AG and EG)
Locally the peg veins
display an axial plane
trace of the F^2 folds
defined by quartz-
feldspar aggregates
Black vitreous mineral ~ 35 mm long (prismatic) within pegmatitic phase - possibly alkaliite in Spinel mixture - Ed crew sampled some.

Also crosscutting peg veins appearing to be axial planes to F^2 folds - presume these veins the late stage F^2 - mobilized portions of the concordant peg layers.

Also late (post F^2) peg veins along shear.

Layer of px plag spymalite & phlog - cp - east fork - some hyp (black) streaks. Layers are about 2 m across total. Cut by sheared peg vein containing black vitreous mineral.

* SPEC 5002.
On other side of shear thin
layer of mafic gneiss ~ 30 cm
under.

On new face of antecap
beautifully displayed F1 & F2
structures. Axial plane of
F1 trends 010° T
Peg (granite) shows axial
plane structure of F2
folds.
2. High folded layer - axial plane does trends 080T

NB Ed Gus found molybdenum in parasite layer (shown to me)
Debenham Peak 6-1-78

Simpson Plk/14/10634

2. Notice a difference from our usual ground jasper and veined by pseudotachylite. Layered pre-play greenish, post-play green, pre-quartz. Some matrix layers only mm wide. A pink layer 1 m wide displaced by pseudotachylite fault by about 3 m.

The greisses show an axial plane structure to open mesoscopic folds (elongation of quartz + feldspar).

Also light folds along the foliation/layers plane.
interference pattern?

pre-play

Some coarse grid p.q.f. 11 to longer. Locally this forms cross andy patches.
2. Bare reading

Sampled but too jointed for fresh surface.

View to Priestley Peak

Two joint sets make collecting for species difficult.

Second site rear first—

collected for zycoy on this site and for whole rx on

7-1-78

8-1-78

Joint

D. Vert

Joint

S. 32'

52 - 269

D: 203

248 - 52

2196
yesterday sit.

spec 5003A yesterday sit
5003B today sit
layering at P1 T1  Tool
5. From air — massive red greis. Sampled from almost flattening pyrox-f greis. Some feldspar 1 cm.

* SPEC 50.04

Bart also looked at some larger 1 pxgy-f greis with recumbent folds. He suggests greisic fabric. The massive greis is probably equivalent to prominent layering in the Tulu Mt.
1. Baro

2. Massive px-q.f. greis
   jointed. Overlies sequence of metasedds.
   SPEC 5005 massive greis

3. Layered sequence.
   Some layers sapl + sill + q + gnt + feld.

   Sampled red-grained quantity of feldspathic layer
   containing gnt + s. and gnt. of coarser spid. q-f.
   Appears to be mobilised in places
   contains xenoliths of more mafic layers.
this mobilisate is pre $F^2$
(i.e. before recumbent folding
which has developed pronase
ed minimal aggregate lysis)

*spec 5906 - gmt-q-f
grins (mobile phase pre
$F^2$)
Sample 5007 - fresh pyrox-f. granulite
4. layered greiss
\[ \text{Lineated sprt. q-f greiss, also} \]
px. plag granulite, pr-q-f greiss. Lenses of sapphire, q-f

SPEC 5008

SPEC 50112

spinel (sapphire) - q-f lens.
Also sillimanite - q-f greiss
Nys. Mt 8/11/48.7  4-1-78

Mtn. Underwood.

* Spec 5009 - qmt-b-qf - schist.

* Spec 5010 - biot pegmatite.

NB. Near first relief forming peg - lens of marble
      rimmed by ps.

To west (other side of landing area about 10 m)
      - wide band of marble.

* Spec 5012
Nye Mts 8/8/1184

Mt. Robinson

5. Layered gneisses. Garnet ubiquitous. Pat James saw marble layer where he was. Some sill|l-gmt-q-f gneiss e marble in scree.
Mt Cuddington / 5/10/74

Page 2

3. P2 - plug green = P5 - T - f

SPEC 5013 - para of green

[red marker]
Kitchenside Glacier

au to zp at Southern edge

massive face

Marine lined bladed
quartz - same as type
as at Mt. Christensen
Mt. Norvegia and "Nordmap"

* SPEC 5014
Simpson Pk / 4 / 1526

Condor Hills 16 - 1 - 78

1. Granite veins & masses intruding schistose biotite gneiss. Microscopic folds appear to affect both gneiss & granite. S appears to be a mid-plane fabric in hinge zone.

Outcrop too weathered to sample for geochron.

Granite identical to that at Chalkman which intrudes biotite gneiss.
Laminated rock - massive in part - brown weathered generally closely jointed.

SPEC 5015 - laminated prograde. Larger richer & poorer in P2 over about 5 mm scale.
Mt Raiser Lassen 15/07/77
Mt Hardy 21-1-78

Majic dyke - folied laths
* SPEC 5016

Country rock gneiss - according to Pat James

mobilisate

F' folds

Compositional variation
-mobilisate at slight angle but folded by F'
These are folded by $F^2$ the major structural event seen in the area - $F^2$ is characterized by polygonal grain character (are streaks reciprocal equivalent?)

Reason for $F$ folds being seen blue - $F$ closure in area.

- SPEC 5017 - layered px green.
- SPEC 5018 - layered px-play green.
Simpson Pk/ 7/ 1271  23-1-78
Fyfe Hills

Folded deformed peg
& dark fine-grained silicofere occ.

* SPEC 5019 - deformed peg

* SPEC 5020 - close to folded nose of deformed grain
Simpson Pk. 5 / 1435
Field Island

Massive peg veining schistose
biotite gneiss. Coarse
books of muscovite

* SPEC 5021 - peg

* SPEC 5022 - biotite
gneiss (v.schistose)
Mt. Flekt

SPEC 5023 quartzfeldspar
layer (orthogneiss)

The augen gneiss (orthogneiss)
(with olivine cores)

just to the south did not appear to be fresh enough to sample.
2. Orthogneiss — b-γ-f with lenses of γ-f similar in appearance to 12 at Mt. Christmas (except no clinoamphibole present here). Interfused with metagranodiorite (metagranite?) & metagneiss. Similar to granite which intrudes all Mt. Christmas rocks appear to be folded with that rock.

Simpson Rk 16/1360
Mt. Monitor

SPEC 5025

Layered quartz-feldspar-rich paragneiss.

 Tight mesoscopic folded near sampling site

(23 holes)
Western most outcrop Amat. But. Terr.

15 cm

General Fabrication

Fault

S: 3 4 5 - 4 8
D: 60 NE

Phase 6

41 → 124 - 4 8
= 0.76

Component varying
Any \( \frac{22}{3} \times 14.5 - 48 = 0.97 \)

\( \text{microscopic} \)

\( \times 29 = 140 \quad \text{folds} \)

\(-48 \times 0.92 \quad \text{common} \)
Area consists of interlayered biotite greis, granitic bands & locally qmt-b greis. Some crosscutting granitic veins network. Tightly folded with axial plane defined by schistosity. Refolded and axial plane trace on schistosity defined by compositional lamination. Lemon & phyllices of bi-biotite greis. Host event - magnetite bearing peg veins.

The amphibolite orientation appears to be controlled by the F2 folds which plunge moderately to the east.

SPEC 5026 - bi-biotite greis
Thala Hills  26-1-78

* SPEC 5027 - partially
  mummified specimen
Simpson Pk / 16 / 78

Beaver Island  28 / 1 / 78

Sample of pumice too weathered

Double folds - high 2nd generation refolding - cobbin folds

Simpson Pk / 14 / 0628

Mt. Tod

* SPEC 5028 - dolomite
dyke
Specimen Ph/16, 1982

8. **Legend**

* SPC 5029 - Lenticularite
  greiss - contains px and may be fine-grained sapphire

Also quartzofeldspathic veins cutting px-plag greiss
1. *Mar 08.30
    - lousy sample site chosen
    - massive brown grains
    - px1 - 2 - f

Looked at mafic dykes,
rocks & albs at Mt
Arthur - too fractured
& weathered to sample.
Simpson Ok/14/0638

McNaughton Ridges

3. SPEC 5031 - leucoeratic
pre-gut green - large
boulders - not in situ
trace of outline layer on
hillside.

Roddon noted last year
outline of upright fold
- Pat agrees.
5-2-78

Mt. Cowl Pt Proe Is/16/2620

2. Exfoliated Granite
- Drilled 4 holes - recalled.
Edm

Exam, weight 433 = $433$

56 Kite
25 Kite
28 Crane
20 Gemini box
29 "
32 Shed box
47 Gemini Kiting
14 Sun's leg shell
5 Gemini map + 2
70 (2) 10
22 Brahma + 2
At Mt King 12-2-78

- one kitbag of sledges etc
- one sack of sacks
- one sack of sacks
- one crowbar
- oneodclaw
- one feather
- six wedges (new)
- two 2\(\frac{1}{2}\)" stabs (new)
- one gent pick
3 spare sledge handles
10 lb baby sledge
6 lb - baby sledge
7 lb
2 small haversacks
4 metal wedges
2 poly-wedges for sledge handles
3 broken wedges from tucker & wedge set
2 x 10 lb sledge
2 x 14 lb sledge
2 small coils of rope
2 sacks of old sacks
Wheeler Rds 1/1/12 06:30

135 2 5 knots
3/4 cloud

25-5-335° mid-level cloud
another patch over 4 miles
direct plateau to 5th well

Porter rigged at Nido

Rippen Depot
0000

32°F 6°

0°F 956

Wind = NE = calm
cloud zero above
stratus cumulus 090-3°360°
line 1200',
 alta cumulus to W
line 10,000',
vis to horizon in all direc
tions

2 flights to Rippen with office men
Fuel to Rippen

1605

Clean

15 knots for

some cumulonimbus, 2000' Rippen

plume of smoke, clean N & S

½ high level cloud

2000

Rippen fine

5th - clean

same high level

3,000

5:30 - shed 6:30 - severe to Rippen

then move in cloud Jagger is

1200 Db

515 +2° C

QFE 954

090° NN 00 - 05

7/8 auto stratus

base 2,500

They cumulonimbus falling to w

vis to horizon, elliptical
Wheeler RX5 1145 31/12/77

Rain: J
SAT -2°
Preo 953.8

Low stratus clouds base 700
Clear air range to n'th
Wind 120° 20 km.
Vo 3 km to nth
50 km to SE

Mt. King
0600 Z
8 nine 51/2 51/2
81025
20383
72060
8095 SI
60 SI SI SI

0300
0300 Z
89 51/2 SI SI
81125
50383
72060, 80775 SI
170 w 35-45 knots

band of blue sky extending from 115 true to us to 325

mid & high level cloud to SW & NE of us

Bliz at King

No change here

We can hear Ripper, M+K & Nella

Nella can't hear Ripper

16.45

Wheeler rx - S/E l-mid level cloud, wind - 40 knots fr 170;

Ripper 25-35 knot fr C

low cumulus

50-60 knots 21.30

white out - vis ~ 10 km

947
Wheeler Air 29/12/77

9.30 local

30 to 40 knots from 155°

band of mid to high level cloud above in otherwise blue sky

low cloud from 045 to 285°
in horizon

low to mod cloud N-NW across

Lippar from Black to James
- bottle of wine in his camera
case removed to prevent freezing & breaking over film

7.45 30/12/77 4040

225 at 35 - 45 knots east

blue sky above from 20 - 170

244 otherwise wind a high level cloud

23 °N horizon to 5th & 8th