ANT/SHE/09

SHERATON

0048

(2)

SUNGEI HILIR

1956

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9/2/86

(84) S end of Charnockite body

Massive charnockite, cut by porphyritic dolerite dyke, trend 270 (dip 40°S)
Charnockite contains conspicuous biotite XLs

5951 Charnockite
5952 Dolerite dyke (BH 30) (~30cm)
5953 Charnockite

(85) SW outcrop of Bunger Hills

Mainly rather layered pyroxene gneiss, including massive granitic gneiss - some thin layers + inclusions of garnet-kyanite gneiss
Cut by dolerite dyke (~3m)
5954 Dolerite dyke

felsic

5955 Massive garnet gneiss layer

5956 Rather mafic felsic gneiss (? pyroxene & + biotite)

(86) W end of Lake Belgae

Rather layered gneisses, predominantly pyroxene gneisses, but with mod biotite. Quite fissile in places. Some interlayered garnet gneiss is also present.

Cut by 60cm ?alkaline dyke

5957 Dyke (PH 31) (dip 176/50)

5958-60 Felsic pyroxene gneiss

5961 Garnet leucogneiss

(87) W. Charnockite contact

Charnockite gives way to felsic pyroxene gneiss within a few metres (actual contact not exposed). No evidence for mafic (gabbroic) transitional zone

5962 Charnockite

5963 Garnet gneiss from near contact

19/2/86

(88) ~1km N of Camp

Dolerite dyke cutting layered pyroxene gneiss. Tightly folded (prob. F_2). ~~The~~ Dip of dolerite ~325/20 (1 m thick)

5964 Dolerite dyke (BH 32)
5965 Pyroxene gneiss

Just N of Camp

Dolerite dyke (~40 cm trend 125) cutting layered garnet gneiss + some pyroxene gneiss

5966 Dolerite dyke (BH 33)
5967 Garnet gneiss

11/2/86

(89) NW Charnockite Peninsula

Charnockite becomes rather more foliated and, at least locally, more melanocratic towards W (supposed contact with metagabbro). There are inclusions of mafic granulite, commonly, but not exclusively of dyke-like form (? syn-plutonic.) The charnockite is relatively heterogeneous here, with numerous pegmatitic veinlets and segregations. There are also X-cutting pink pegmatites & dolerite dykes. Shear zones and mylonite cut the mafic granulite "dykes" and some, at least, the dolerites (sheared margins) & pink pegmatites. No gradational contact with metagabbro seen

5968 Melanocratic charnockite near W end of peninsula

5969 Mafic inclusion

5970 Aplite dyke (~30 cm) – highly irregular shape – host contains ; cut by thin pegmatite

5971 Doleritic dyke (~120°, ~35m) (BH 34)

5972 Fine, even grained phase of charnockite (may be pyroxene gneiss inclusion)

5973 2m doleritic dyke, trend 140° (BH 35)

5974, 5975 Even grained charnockite

5975 b Coarse grained charnockite

5977 Dolerite dyke (trend 150, ~5m) (BH 36)

The even grained charnockite grades into megacrystic charnockite in places, in others coarse, pegmatitic charnockite intrudes fine, even-grained charnockite. The intrusive relationships are complex. Dyke 5973 has a sheared margin, and is cut by a shear zone at one place. Many shears + mylonites at this locality.

51

12/2/86

(90) NE Highjump Arch (N Ireland)

layered massive felsic gneiss - pyroxene gneiss with some interlayered mafic granulite. The felsic gneiss locally contains garnet

5978 Felsic gneiss
5979 Felsic gneiss with minor garnet

(91) NE Highjump Arch (SW Ireland)

Mostly layered garnet-bearing gneisses - rather migmatitic + contorted (many small tight to isoclinal folds). Much garnet leucogneiss, and some mafic granulite. Garnet development associated with shear zones + pegmatite veins, even in mafic granulite units

5980 Garnet leucogneiss
5981 Mafic layer (pyroxene granulite)
5982, 3 Garnet gneiss (rather massive with greenish feldspar)

9

(92) Nick just to east

Similar to last locality – mainly garnet gneiss + mafic granulite. The latter are clearly discordant in some places. Some mafics have widespread development of garnet in small aggregates (≈ 5mm across)

5984 Garnet granulite
5985 Mafic granulite

(93) Highjump Arch, 5km W of Astro Point
(also Nick just to E)

Massive charnockite, mostly rather melanocratic and even granular. With numerous pegmatitic segregations and agmatitic structures. Some mafic xenoliths also present

5986 Mafic inclusion (or more mafic phase of charnockite intruded by felsic)

5987,8 Charnockite

(94) 3km SW of above

5989 Massive charnockite

(95) 2km N of above

Layered felsic gneiss (rather basalt rich) with many leucocratic pegmatite layers.

Cut by dolerite dykes which post-date pink pegmatite veins

5990 Felsic gneiss (BH40)
5991 Dolerite dyke (~10m, trend 110°)

Felsic veinlets (sub-concordant) cut by 2 sets of thin ultramylonite zones which both post-date pink pegmatites.

Some interlayered mafic granulite and subconcordant pink granites (post associated with pegmatites

∞

10K

(96) [NW of] Charnockite Peninsula

Strongly layered gneiss – felsic, mafic and garnet-bearing. The mafic layers are partly boudinaged, intruded by felsic material. Also present are lenses, schlieren, bodies of garnet-rich gneiss.

5992 mafic granulite

5993 Felsic gneiss (intrusive)

5994,5 Garnet gneiss (partly migmatitic, with felsic parts)

(97) NE Neck of N. Highjump Arch (Report group) (RJT)

5996 Dolerite dyke (6m trend 010) (BH37)

(98) Astro Point – N Highjump Arch (RJT)

5997 Dolerite dyke (30m trend ≈ N-S) (BH38)

(99) Small island ~ 8km NW Charnockite Peninsula (RJT)

5998 Dolerite dyke (1m, 125 trend) (BH 39)
5999 Charnockite vein

13/2/86

(100) Mt. Strathcona (main peak)

Mainly garnet-biotite gneiss with interlayered felsic (? biotite) gneiss and quartzite. Dip ~ 330/65
Garnet gneiss is rather migmatitic with small concordant felsic veinlets

6000, 1 Garnet gneiss
6002 Felsic biotite gneiss
6003 Quartzite.

(101) Mt Barr-Smith

Layered felsic biotite gneiss with much quartzite (minor garnet + biotite)
Dip 155/85

6004 Felsic kyanite gneiss
6005 Kyanite quartzite

(102) Cape Harrison

Massive garnet-kyanite gneiss — foliated granite? Well concordant garnet aplite layer. Mafic inclusion is also concordant

Sup ~130/30

6006 Garnet kyanite granite gneiss
6007 Garnet aplite
6008 Mafic xenolith

(103) Cape Jones N

Striae Tr. 175° (but very variable)
Massive pyroxene gneiss. With some thin mafic layers and schlieren
Much like Okrucker Hills
6009 Massive felsic pyroxene gneiss
6010 Altered basalt (greenstone from Ink Sandon?) (float)

6011 Massive felsic gneiss

(104) Cape Jones? (RJT)

6012 massive felsic gneiss

(105) Possession Rocks (RJT)

6013 Garnet bearing granite gneiss

14/2/86

(106) Baldwin Rocks (Ivan)

Massive porphyritic charnockite, cut by pos felsic dykes (v sl sheared, + not seen in Situ) — trend ~50°

6014,5 Massive charnockite

6016,7 Dykes (? felsic with fol? phenocrysts)

(107) Nick 3 mls W of Baldwin Rocks

massive pink porphyritic granite (hornblende)
All Nick is the same

6018-20 Granite

(108) Nick 2 mls S of above

Pink ; more even-grained granite
with very thin (10 cm) mafic granulite
dykes

6021 Granite
6022 mafic dyke

(109) Watson Bluffs (summit)

massive charnockite with hornblende (dk brown)
6023, 4 Charnockite

(110) Cape Serlachs (NE)

Layered pyroxene granites ± with mafic granulite dykes (slightly discordant)
Cut by possible alkaline dyke (not seen in situ, and may be concordant)
Dip ~ 135/70
6025 Felsic pyroxene granite
6026,7 Possible alkaline dyke (incl in basalt blocks)

6028 (Cape Jones moraine) — Greenstone (altered basalt) with minor pyrite

(111) Cape Kennedy (RJT)

Massive melanocratic charnockite cut by pink aplitic granite veins. Possible felsic dykes may pre-date this granite

6029 Felsic ? dyke
6030,1 melanocratic charnockite
6032 Pink granite vein

(112) Watson Bluffs SW

6033 massive charnockite
15/2/86

(113) Chugunar Is

Entirely moraine covered
Possible andesitic volcanics + much
sandstone ? rare "greenstone" (altered
mafics) in moraine (as well as metamorphics)
6034,5 ? Andesite

3 small ridges to N are almost
in-situ — felsic gneiss, mafic gneiss,
and even-grained granite felsic gneiss
contains kyanite (± rare garnet)
6036 Felsic gneiss (kyanite)
6037 Granite (cuts gneiss)
6038 Felsic gneiss (kyanite + ? pyroxene)

16/4/84

(31) Thomas Ireland East

Near Weiten dolerite dyke (sample 5660) — massive felsic gneiss with marked foliation — pink in colour with thin irregular mafic layers and schlieren. Minor garnet present

6039 felsic gneiss

Near pelagic unit, layered felsic gneiss (comp gt) is intruded by even-grained, but somewhat foliated charnockite. The actual contact is quite strongly deformed, but nevertheless discordant. Mafic granulite layers in the gneiss are folded + locally discordant, hence probably reflecting an earlier phase of dyke emplacement

6040 Mafic granulite

6041 Pink granite (associated with pegmatite) cutting felsic gneiss

6042 Charnockite (also contains granite mafic inclusions & pseudotachylite dykes)

The pink granite is undeformed and presumably post dates the charnockite also. The latter is clearly cut by mylonite / pink pegmatite zones and also even grained granite veins. These granites are essentially undeformed & cut the mafic layers in the gneiss

Mafic granulite layers do cut the charnockite & are partially cut by the pink granite / pegmatite. These granite veins are essentially subconcordant & general, but clearly post date the gneissic foliation.

(112) ☆ W side of island S of E Thomas

Mafic granulite dykes (metamorphosed) are largely concordant, but are locally cross-cutting. They are boudinaged

and folded in some places; particularly broken up where cut by pink granite/pegmatite veins. The country rocks are mainly rather massive, migmatitic garnet gneiss.

6043 mafic granulite dyke (discordant)
6044 mafic granulite (folded, boudinaged, but clearly discordant
6045 massive mafic granulite (discordant)

Relationships between folded + concordant granulites not clear
Cut by 40cm mafic dyke (dolerite)

6046 mafic dyke (Trend ~015) (20/70 dip)
6047 garnet kenulite gneiss

(113) Island N of Chamorhite Pen (West)

Massive charnockitic rocks, mostly rather felsic with some melanocratic phases. Inclusions of mafic granulite (much biotite). Many migmatite and

Migmatite [illegible] and segregation
Cut by at least 2 sets of
dolerite dykes — subhorizontal
cuts vertical, NS trending set

6048 Dolerite dyke (Trend 125)(BH 46)(~3m)
6049 Dolerite (subhorizontal) (BH 48)(~50cm)
6050 Dolerite dyke (Trend 125)(BH47)(~0.3m)
6051, 2 Very fine grained charnockite
6053 Mafic granulite inclusion

(114) Lame Island (E end)

Layered metasediments cut by
thin dolerite dykes. Trend 070/vertical
6054 Dolerite dyke (Trend 120, 70cm)(BH 49)

Metasediments include garnet gneiss
and calc-silicates, as well as interlayered
felsic gneiss and pyroxene gneiss
Cut by probable alkaline dyke trend 125°
6055 ?Alkaline dyke
6056, 7 Garnet gneiss (kinetic garnet)

12/1/15

(115) Peninsula W of Fishtail Bay

Massive charnockite with minor garnet

6058 charnockite (minor garnet)
6059 Dolerite (3-4m trend 145°)
6060 charnockite
6061 garnet charnockite

Contact with migmatitic garnet gneiss not well exposed, but generally concordant. However, clear intrusive contacts present in some places and charnockite contains blocks of garnet gneiss and pyroxene gneiss
Rfp of gneiss on NW side 260/70°
6062,3 migmatitic garnet gneiss
6064 Pink granite vein from migmatite (subconcordant)

(116) N of inlet on W side of Fishtail Bay

Charnockite with garnet, some charnockite looking garnet gneiss with abundant garnet
6065 Garnet charnockite

wic/2k

(117) NE Fishtail Bay

Layered pyroxene gneiss dip 255/35
cut by thin (30cm) dolerite trend 110°

6066 Felsic pyroxene gneiss
6067 Dolerite (trend 110°) (BH50)
6068 Felsic pyroxene gneiss

Interlayered with garnet gneiss and qtz quartzite and cut by pink pegmatites (quite discordant) + some alteration zones + mylonite

6069 Garnet gneiss
6070 Felsic pyroxene gneiss
6071, 2 Garnet gneiss

Pyroxene gneiss (dk grey) has some garnet where adjacent to garnet-rich gneiss (6071 is "demonstrative" in colour)

Intraconcordant (but internal veletion locally obvious) pink-cream garnet granite (~5-6m thick)

6073 Fine grained garnet granite
6074 Garnet gneiss (charnockite)
6075 Large dolerite dyke (~40m)
6076 Dolerite (80cm Trend 105°) (BH51)

(118) NW side of Fichtel Bay

Mostly massive felsic pyroxene gneiss cut by dolerite dykes (thickness ~ 1-5m variable, Trend ~130°

6077 Dolerite dyke (Trend 130) (BH52)
6078 Felsic gneiss (massive, ? pyroxene)
6079 Pink to white, even-grained to pegmatitic granite with minor garnet

The felsic gneiss is v massive, & contains hyp. pyroxene however, biotite is conspicuous and the gneiss is locally well foliated

To west is an outcrop of pink granite (garnet-bearing) with layers & schlieren of gt-kyanite gneiss

6080 Garnet-kyanite gneiss

This passes upwards into massive charnockitic gneiss — subconcordant contact; pink granite/pegmatite appears to intrude the charnockitic gneiss — the latter is coarser grained than that at the landing place, and less layered It may be part of the extensive charnockite

6081 Charnockitic gneiss

Massive charnockitic gneiss in bluffs to S & SE of above outcrop — does not look retrogressed

6082 Massive hypersthene gneiss

Just to E of this place is more like landing place — much kyanite in the gneiss which has a more distinct foliation

6083,4 massive felsic gneiss (kyanite)

6085 Subhorizontal mafic dyke

(119) Head of 2nd inlet on W of Fichtland Bay

Layered migmatitic garnet-biotite gneiss has subconcordant contact with charnockite gneiss (also garnetiferous) latter contains inclusions of pyroxene gneiss. It grades into massive even-grained charnockitic gneiss like last locality. This contains pelotes & veins of its coarser charnockite (gt)

6086 Massive even grained pyroxene gneiss
6087 Dolerite dyke (5m, 140° trend) (BH53)
6088 Garnet charnockite
6089 Charnockite
6090 Migmatitic garnet-biotite gneiss
6091 Large (50m) dolerite dyke trend 130° (BH54 from SE Bunger Hills)

2/2/86

(12) SE Berger Hills

Migmatitic felsic + mafic gneiss – probably hypersthene gneiss unit but much migmatised – cut by numerous pegmatites and granite veins & strongly folded. Layering very irregular. Much biotite + hornblende in the gneiss

6092 Massive felsic gneiss layer
6093 Granite gneiss layer – ~~foliated~~ foliated but weakly layered
6094 Massive charnockitic gneiss
6095 Felsic gneiss (granitic)

To N of dyke, more typical pyroxene gneiss, but relatively migmatitic – medium grained with felsic, coarse-grained layers
6096 Felsic gneiss
6097 Dolerite dyke (Trend ~115°, ~4m) (BHSS)

(121) E side near sea - cliffs

Mostly felsic + mafic gneiss interlayered
Rather massive, with irregular, not
well-marked layering. Cut by folded
mafic granulite bodies (boudin dykes), then
by dolerite dykes. The granulites are
clearly discordant to all (quite good dykes)

6098 Mafic granulite
6099 Grey felsic banded gneiss
6200 Felsic gneiss (charnockitic)
6201 Dolerite dyke (Trend 140, ~~[redacted]~~ 1m) (BH56)
6202 Thin (1-2 cm) mafic granulite dyke

The mafic granulite are cut by
pink pegmatite dykes which are cut
by the dolerites. Much of the gneiss
is light coloured (retrogressed? or
amphibole poor)

6203 Mafic granulite (2 dykes)
6204 Felsic gneiss
6205 "Rafakiri" granite (float)

~~[illegible] Garnet [illegible] layers random~~ ~~orientation of~~

~~to strongly [illegible] grains of biotite~~

Garnet gneiss layers present, but not abundant. Massive granite layers are locally foliated (oriented biotites), but elsewhere biotites are randomly oriented (grains up to ~5cm)

6206 Coarse-grained biotite granite

(122) ~ ~~4~~ 5 km N of [illegible]

6207,8 Granite gneiss (no foliation)
6209 Grey (? charnockitic) granite gneiss (trace of garnet present)

Massive granite gneiss. Little layering present, although a very diffuse layering can be discerned. Felsic (leucogranite) veins darker gneiss & pegmatitic veins & segregations common. Subconcordant mafic granulite may represent m/m dykes, cut by pink pegmatite veins

6210 Charnockitic gneiss

6211 Foliated granite gneiss (diffuse layering and pegmatitic segregations)

(23) End NE inlet of Lake Figuranne

Layered gneiss including garnet gneiss felsic gneiss and mafic granulite. The felsic gneiss included characteristic granitic gneiss. Cut by subconcordant pink granite Dip 20°/60

6212 Pink granite
6213 Granite gneiss (grey, diffuse layering)
6214 Garnet gneiss
6215 Dolerite dyke

The felsic to mafic, characteristic gneisses are pinkish, retrogressed - much knotted developed > many pegmatitic segregations grey granite gneiss also locally retrogressed (chlorite). Cut by pink granite (even- to coarse-pegmatitic) > pinkish fine even-grained granite (± foliated) — similar to last locality

6216 D[illegible] gneiss (fine to medium grained, slightly foliated)

6217 Retrogressed charnockitic gneiss

24/2/86

(124) Seologen Island

Massive charnockitic pyroxene gneiss, but distinctly foliated. Even-grained pyroxene gneiss has numerous subconcordant veinlets of coarse-grained, more leucocratic material. Incipient melting & veining.
Dip 270/30

6218 Layered ~~[illegible]~~ fine to medium grained layered charnockitic gneiss

6219 Dolerite dyke (~1m, trend 090°) (BH57)

~~[illegible]~~ Interlayered garnet gneiss & perthitic quartz-rich. Subconcordant mylonite zones present

6220 Garnet gneiss

6221 Massive even-grained pyroxene gneiss

Cut by pink pegmatite & very migmatitic felsic pegmatites. Some of the gneisses have conspicuous knots

30cm red-brown felsic dyke trends ~ 055°

6222 Felsic dyke
6223 Dolerite dyke (trend 050, ~1m) (BH58)
6224 Vesicular part of same dyke
6225 Felsic gneiss (massive charnockitic)
(coarse + finer grained layers)

Some charnockitic coarser-grained layers contain conspicuous large garnet. These are cut by the dolerites

(125) SW Fishtail Bay

Massive pyroxene gneiss (+ mud kinzigite) similar to East locality, but with much more mafic granulite. Cut by mylonite
6226 Altered gabbro (float)
6227 Massive charnockitic gneiss

[illegible] interlayered [illegible] pegmatites
(? concordant) and coarse grained garnet
granite (somewhat chamockitic looking in
places). The massive pyroxene green
locally has large ? hornblende
porphyroblasts

6228 massive charnockitic green with ? hb
6229 garnet granite (coarse-grained)

The garnet granite contains schlieren of
garnet green + there is some interlayered
garnet green. Pink pegmatite/granite
forms concordant layers, + pink X-cutting
pegmatites are also present

(126) Grace Rocks

Massive felsic pyroxene gneiss (charnockite) much like Obruchev Hills. Contains some mafic xenoliths and cut by even-grained charnockite veins, then by coarse pegmatite dykes. Age of garnet gneiss is apparently a large xenolith. Mud megacrystic granite in the moraine

6230 Megacrystic granite (float)
6231 massive pyroxene gneiss

massive charnockite gneiss contains xenoliths of even-grained pyroxene gneiss - clearly intrusive charnockite
6232,3 massive charnockite gneiss

(27) [illegible]

Layered felsic gneiss mainly, with some mafic gneiss. Commonly granitic in comparison with hornblende-rich layers. Pinkish colour, rather than grey characteristic appearance

6234 Palaeocene dyke (8m, trend 130°) (BH 59)
6235 Granite gneiss (massive foliated layer)
6236 Greenstone (altered mafic) (float)

Gneiss is rather leucocratic in colour, possibly altered charnockitic gneiss. There is much concordant granite (pinkish generally)

6237 Palaeocene dyke (float - 1cm)
6238,9 Felsic gneiss (biotite, ? retrograde)

Mafic to ultramafic bands + layers contain much hornblende. One massive layer ~ 20-30m thick

128 [illegible] [illegible]

Pyroxene gneiss cut by large + smaller dolerite dyke. Gneiss contains much biotite + is markedly inequigranular To S, some of host gneiss is preserved.

6240 Felsic gneiss (biotite + ?pyroxene)

1/4 km to N

Layered garnet quartzite and felsic gneiss (biotite granitic gneiss) Most of the gneiss here is well-layered biotite gneiss

6241 Felsic gneiss

(129) E of Fiskitad Bay

Massive, rather inclusion-rich charnockite cut by pink pegmatite veins

Biotite is prominent in [illegible], the charnockite

6242,3 Charnockite

Dolerite dyke trends ~130° (30m)

6244 Dolerite (130 trend) (BH 6)

28/2/06

(130) Island N of Chamorbaie Pen

Varied strongly layered metasediments including garnet gneiss, felsic gneiss, pegmatite etc.
Rusty weathering layers common.
Cut by a homogeneous grey pyroxenite (cpx?) body. Clearly intrusive — felsic gneiss forms banding (roughly normal relationship)

Ø246 Pyroxenite

Ø247-9 Garnet gneiss

Other rocks include interlayered characteristic gneiss + mafic granulite, garnet-bearing quartzofelspathic etc.

Ø250 Garnet gneiss

Ø251 Felsic gneiss with garnet (diffusely-layered granitic gneiss with patchy pegmatitic segregations

(P2) Small Island to West

Massive gt-bi gneiss (granite) Not well-layered, but [illegible] rich schlieren) + charnockitic granitic gneiss

b252 gt-bi granitic gneiss
b253 Gt. gneiss
b254 Charnockitic bi gneiss

Some of the garnet gneiss is pink in colour, other gneiss has a dark, charnockitic appearance. & Interlayered mafic granulites (boudinaged) are present, and these are cut by felsic even-grained, but metamorphosed dykes (darker granulite may also be a dyke) b256

b255 Mafic granulite (? pos dyke-like)
b256 Felsic dyke
b257 Massive granitic layer (knobbly leuco-gran)

Layered gneiss including mafic granulite (? metagabbro) – rather inhomogeneous > migmatitic (coarser-grained more felsic layers) Cut by ~6 m dyke (trend 125°) rather altered > cut by shear-zone. Then cut by a 70cm fresher-looking dyke

6258 Mafic granulite
6259 6m altered dyke
6260 Fresher, younger dyke
6261 Garnet gneiss

The gneiss include garnet-biotite gneiss, biotite granitic gneiss with minor biotite ± garnet, and some charnockitic gneiss. These are cut by a large shear zone with minor folds showing the new axial plane foliation. Near the shear, the gneiss are clearly retrogressed (lighter in colour – bleached)

Pink ~~granitic layers~~ pegmatites are both conformable >[illegible] discordant dykes

Layered, but relatively massive, migmatitic garnet biotite gneiss cut by many small mylonite zones
Cut by pegmatite
6262 Garnet gneiss

(134) Nick Point

Layered migmatitic garnet gneiss some ~~Cut by~~ with schlieren & pos. concordant
6263 Garnet gneiss
6264 Garnet-sill gneiss
6265 Garnet ? cord gneiss

Cut by dilantic dykes

(135) Main Island

Layered garnet gneiss & biotite gneiss + mixed pegmatite. Cut by mafic granulite dykes, which are cut in turn by felsic pegmatite & then mylonite zone. Also cut by kubt gt-bi pegmatite

6265 Mafic granulite dyke (thicker)
6267 granulite dyke (trend 020)
6268 Biotite gneiss with minor garnet and possible cordierite

The thicker granulite dyke has a more felsic phase which includes a coarser xenolith of a more mafic phase

Interlayered mafic granulite may be a metagabbro - some layers are 1 or 2 metres in thickness (although felsic leucosomes + felsic veinlets)
The granulite is somewhat layered + foliated + contains quite abundant

~~6269 Mafic granulite~~

6270 - Biotite gneiss with minor garnet
Some interlayered charnockitic gneiss
(with a high proportion of coarse grained felsic layers)

(126 ...) Charnockite (continued)

major granulite (? metagabbro) interlayered with felsic gneiss to W. Then mostly metagabbro — rather heterogeneous & variable grainsize, with coarser grained patches. Cut by more felsic veins (commonly rather coarse-grained). Also intruded by the pink to white inequigranular leucogranite. The latter is somewhat foliated locally. Further east is more felsic charnockite (but still relatively melanocratic)

6271 [struck through] Pink leucogranite
6272 Melanocratic coarse charnockite
6273 Finer grained melanocratic charnockite
6274 ? metagabbro

Gneisses to W of are biotite-garnet ± magnetite bearing & are cut by a pink even-grained biotite granite dyke & pink pegmatites

(137) Nkks 10km ENE of Charnockite Pen (central mass)

Massive charnockite - generally med-coarse, but even pegmatitic. Cut by dolerite dyke > rather inhomogeneous somewhat hornfelsed fine-grained dark grey charnockitic dyke
Cut by pegmatite veins
6275-7 Charnockite
6278 Felsic charnockitic dyke
6279 Dolerite dyke

(138) Nkk just to S

Similar massive charnockite (med coarse, but not porphyritic)
6280,1 Charnockite

6282 ?Sa rock (gloss) E of Fisherman Bay
6283 Blue q/z
6284 Volcanic from moraine at Chegenor Is — pyroxene + quartz in remains (XRD)

6285 "Rapakivi" granite FLOAT
6286 "Rapakivi" granite FLOAT (rock RJT)

8728

6290 Cygnet Ne syenite (porph)
1 " " " "
2 " dyke (even grained)
3 " dyke (chip-fresh)

Various nepheline syenite dykes cut tillite (near Cygnet, Tas)
Ne syenite contains sanidine phenocrysts + analcite, hauynite, aegirine, calcite + speculation?

6294 Trachyte from Warrumbungles

8828295 andesite Pastruenka
6 " "
7 basalt Osorno
8 dyke Reno Cathedral
9 diorite Torres del Paine

8828301-10 granites (Nainital)

8828311 ? orthoamphibole rock
2 Volcanic rock from Korean Tc
3 } Alk volcanics (Kashmir)
4 }

9128632[illegible] - 76[illegible] PGT mafic dyke (Nikhalecky)

PTO

91286401-59 P. Kenig / Cove Samples NPCT

6461-96 W. Cove - Fisher Massif

6501-18 W. Cove samples NPCT

91286551- Verified dusts for Rocks (Ruth)

93286600-48 Power Rs / Verified (S. Harley)

93286649-99 Mitchelsky Fisher Massif Rocks

93286702-19 (DSC Sri Lanka dusts)

6721-70 (D. Maudlad samples)

6771-4 (Heard Island pumice)

69280301-340 NPCT (old IM/DC samples)

9628678I-800 Indian Chamakila

5793 Charnockite from Mt Skinkcone (N)

Samples 5600-99
5800-99
5900-99
6000-99
6200-

15 in each of -

21 Plastic sacks 5600- 6014 (+5793 in card box)

6 Wooden boxes 6015-99; 6200-4

4 Drums 6205-24
6225-43
6244-63
6264-81