

NM CODING MANUAL 1981

**SAMPLE DATA SHEET
CODING MANUAL
1981**



© Nordisk Mineselskab A/S
Lersø Parkalle 112
DK-2100 København Ø
Telf: 01-208200

GRF no - 22101

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1. THE FIELD REPORT

The field report should be delivered in 5 copies to NM as soon as possible after the field season. The report should preferably be written in english. Remember to include the following:

- Titlepage with informative title including location if possible, group number, author's name and date.
- List of contents.
- Very brief summary including: visited localities, the work done, the results, and recommendations.
- Introduction with purpose of field work, list of participants, distribution of time (travel, bad weather, etc.).
- If necessary, some short comments on logistics.
- Description of geology and mineralisation. Remember briefly to include former work and results.
- A section including discussion, conclusion, and recommendation.
- A short diary.
- A copy of the sample data sheets.
- List of analyses.
- References. In the text references should be given either as authors name and year, e.g. Haller (1971), or as NM group no., e.g. NM 9/71.
- Photos should be included in each copy, as photocopies normally are of very bad quality.
- When describing localities use: N, S, E, and W, not left or right. Use coordinates or fixed points in the terrain (mountain peaks, river mouths, sharp river bends etc.) and not camp site, former sample sites etc.
- Use tables and lists whenever possible.
- Both photos and drawings should be numbered as figs.

- Maps should always contain: Bar scale, N-arrow, drawer's name or initials, date, group no., and a title. On the map, discrimination between different sample types, (including different rock sample types, e.g. scree, outcropping, etc.) should be made. The legend must contain a list of the samples plotted on the map (e.g.8001507-13, 14-29). The original transparency for maps should be submitted to NM where they will be filed. If the map is bigger than A0-size, split it in two.

2. SAMPLING

Each sample should be given a number from the sample book. The complete sample number is given as year/group/registration no., e.g. 8015501.



6,0 | 8,0 | Nr. 15501
Type Year

Alt.: 440 m, MSL. A, C
(subno.s)

Locality: Fluoritdal

Area: TR.E

Description:

A: F-gr. syenite
B: qz + fluo vein
C: qz porphyry

0,1 | 0,7 | Coll.: A.G.
Date Month

Use different sample books for different sample types (e.g. one book for rock samples and one for pan samples). The white page stays in the book, the yellow follows the sample, and the red one belongs to the geologist. Take the red copy out of the book in the evening in case of loss of the sample book.

Plot the sample location on a map, and indicate in the margin which samples are on the sheet.

Information about the samples must be coded on the data sheets according to the manual (section 3, below).

At the end of the season the sample books, an analysis request list, and one copy of the sample maps must be delivered to the project leader. The filled in data sheets and samples should be returned to Nyhavn when practicable during the season. After returning to Copenhagen the data sheets will be copied and sent to the geologist.

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Participants in the Scheelite Project must submit a readable field diary at the end of the season. The field report should be delivered before December.

Participants of the other projects must deliver a field report as soon as possible after receiving the analytical data.

3. MANUAL FOR CODING THE DATA SHEETS

The data sheets 1a and 1b must be filled out in the field as soon as possible after taking the sample. Use sheet 1a for rocks (including grab, chips, channel, bulk, composite, profiles and drill core samples). Use sheet 1b for non-rock geochemical samples (pan concentrates, stream sediments, soil, water, and organic samples).

If no information is to be recorded in a column, leave it blank.

Do not write in the "Ident." columns in the field.

Columns 4-36 must always be filled in.

Codes can be either left or right adjusted, except *sub-numbers* which must be left adjusted.

Remember:

Ø	= the figure zero
O	= the letter O
1	= the figure one
I	= the letter I
5	= the figure five
S	= the letter S

Note 1. When possible, codes have been made to comprise the first letters of the term. e.g., amphibolite = AMP, laminated = LAM. A few standard abbreviations are used, e.g., clinopyroxene = CPX, chalcopryrite = CPY. If duality exists, one code has been arbitrarily defined, e.g., pyrite = PYR, pyrrhotite = PRR, black = BL, while blue = BU.

Note 2. The lists are open-ended, i.e., additional terms can be used after their codes have been defined and accepted by the project leader.

3.1. Data Sheet 1a - (rock samples)

SUB-COMPONENT

If the rock sample can be defined in 1 line, leave blank. If the rock sample has one or more *sub-components*, each of which requires a new line for description, columns 2 should be filled in with 1 for the main (first) sub-component, 2 for the second sub-component, etc..

SAMPLE

- *Type*: As per list 1a
- *Sample numbers and sub-numbers*: Sample number is *year/group/registration* number (e.g. 8015001 or 8002015). The same number must be used for main component and possible sub-components. There are 2 columns for each sub-number (columns 13 and 14). Both letters and numbers may be used. Subnumbers must be left adjusted, (i.e., if only one character, use column 13). Use only one character if possible, (i.e. 8015507/1 and not 8015507/01).
- *Sampler*: the first 3 letters of the group leader's family name, unless otherwise specified.
- *Project*: As per list 3.

SITE

- *Sheet*: The code title of the 1:250.000 or 1:100.000 map sheet on which the sample is plotted.
- *Height*: The elevation of the sample site above sea level in metres.
- *Locality*: as per the map in the middle pages. (The boundaries are prominent topographic or geological features).

STRATIGRAPHY as per list 4.

- *Reliability*: as per list 2.

The stratigraphy codes are those used on the 1:250.000 geological maps of Haller (72°-76°N) or those of the 1:100.000 geological maps of GGU (70°-72°N).

Note 1. When using Haller codes, always replace small by capital letters. Hyphens (-) must be omitted for both Haller and GGU codes.

Note 2. Also use CAPITAL letters when using GGU codes. GGU codes should be altered in the following cases:

a) single letter codes must be expanded by adding F (except pegmatite, P, which remains as P, Cambrian, C, which should be expanded to CA, and pelite, P, which should be expanded to PE.).

b) Greek letters must be replaced by the two first letters of their names in Roman script (e.g. α = AL, β = BE, etc. - see list 4). Note, however, that γ = GAM.

c) All GGU crystalline rock codes must end with the number of the region, e.g., for Charcot Land (region 1), Q1, SP1, GR1, etc.

d) A few extra stratigraphic codes have been introduced for the Devonian and Permian of Wegener Halvø, and for the Triassic.

ROCK DESCRIPTIONS

- *Structures*: as per list 5

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- *Colour*: as per list 6, e.g., for "greenish grey" *min.* = green (GR) and *maj.* = grey (GY).
- *Grain size*: as per list 7
- *Qualifying minerals (and terms)*: as per list 8
- *Rock type*: as per list 9

Note. The qualifying minerals column includes codes for qualifying terms, e.g., arenaceous, argillaceous, etc. The codes for qualifying minerals or terms are usually identical with the corresponding (if existing) rock type code - e.g., dolomitic and dolomite are both DOL, quartz and quartzitic are both QUA.

ORE DESCRIPTION

- *Ore Minerals*: as per list 10
- *Ore Min., Amount*: as per list 13
- *Ore Structures*: as per list 11
- *Alteration*: as per list 12

Note 1. It is not necessary to fill in all 4 ore structures, but it is necessary - if filling in - that the structures 1, 2, 3, and 4 occupy fixed places in data sheet columns 65, 66, 67-68, and 69 respectively.

Note 2. If an ore mineral is filled in, an ore structure should also be filled in.

The *Ident.* columns should not be used.

3.2. Data Sheet 1b - (sand/soil/water samples)

SAMPLE: as for sheet 1a except for a more detailed date, viz.

- *day*: from 01 to 31
- *month*: July = 7, August = 8 etc.

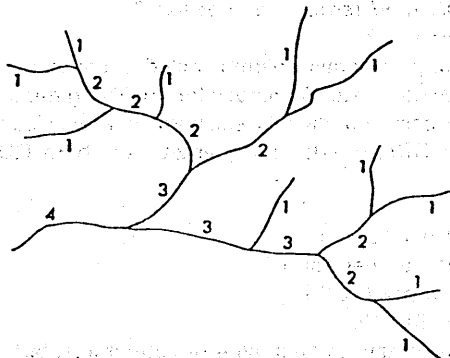
SITE as for sheet 1a

SOURCE ROCK STRATIGRAPHY

- 1 is the main source rock, 2 and 3 are subsidiary source rocks, with stratigraphy as per list 4.
- *Reliability*: as per list 2

STREAM CONDITIONS (at the sample site).

- *Stream Order:*



Stream-ordering system.

- *Flow Rate:* of water in the stream - list 14
- *Stream Bed:* the dominant bed material - list 14
- *Bed Sediment Size:* the dominant grain-size of the sediment in the stream bed - see list 14
- *Sorting in Bed:* degree of sorting of bed sediment - list 14
- *Staining* - list 14

SAMPLE DESCRIPTION

- *Sample Size:* for W-samples, *original* and *sieved*, the size in litre, which should be recorded in the field. (A decimal point occupies a column). For other samples, original and sieved, and for the *heavy mineral fraction* of W-samples, the size in grammes will be added in the laboratory after processing.
- *Heavy Minerals:* as per list 8 and 10.
These can be noted if minerals of special interest can be recognized, e.g., scheelite, gold etc.
- *Grains Scheelite per 5 l and Ident.* columns will be filled out in the laboratory.

3.3. Data Sheet 1a. Examples

1. Scree sample 8007788 from Traill Ø East. Light grey, porphyritic fragmental rhyolite with veinlets of quartz and pyrite. Mn-staining. Tertiary age.
2. Moraine composite sample 8007789 of grey, brecciated siltstones with blebs of chalcopyrite and chalcocite mineralisation. Presumed Jurassic, but uncertain.
3. Outcropping 8007790/A. Jurassic, pinkish grey, conglomerate with clasts of uranium mineralized granite.
4. Outcropping 8007790/B, as above, but not mineralized. Poorly bedded.
5. Outcropping 8007790/C, as above, but with disseminated pyrite parallel to bedding. Rusty grey colour.
6. Stream boulder 8007791 of vein quartz and baryte, vugs partially infilled with galena and sphalerite. Uncertain Tertiary age.

3.4. Data Sheet 1b. Examples

7. Pan concentrate 8005432 from Lyells Land. Source rocks EBG 8. Stream is a steep 1st order gully. Original/sieved sample size 5/1.5 litre. Apparently no interesting heavy minerals.
8. Stream sediment 8002345 from Wegener Halvø. Source rocks Devonian Quensel Bjerg Formation, and some Permian Limestone-Dolomite Member. Stream is a 3rd order main river.

DATA SHEET No 1a

(ROCK SAMPLES)

NORDISK MINESELSKAB A/S



CARD NO.	SAMPLE														SITE				STRATI GRA-PHY	ROCK DESCRIPTION	ORE DESCRIPTION											Ident.								
	number				sub-no.	sampler	project	sheet	height (m)	locality	structures 1	structures 2	colour min.	colour maj.	qualifying minerals		rock type	ore minerals			ore structures				alteration															
	type	year	gp.												1	2		1			2	58	60	62		64	66	68	70	72	73									
1A	GS	80	07	788		JENTZ	201	260	TRLE			YI	POR	FRA	LIGY	FQUA	RHY																							
1A	GS	80	07	788				260				V	VES		RU	WH	QUA	PYRM																						
1A	CH			789				50			21	23	2	2	BRE	GYF		SIL	CPY	MCHA	TB																			
1A	GC			790	A			120					1		PI	T	C	CON																						
5	1A														C	L	A	RE	H																					
1A																P	O	G																						
1A	GBV			791					0									CON	PYRT																					
1A									0																															
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	1A								0																															
25	1A								0																															

10

DATA SHEET No 1b (SAND/SOIL/WATER SAMPLES)

NORDISK MINESELSKAB A/S

















CARD NO.	SAMPLE										SITE			SOURCE ROCK STRATIGRAPHY			reliability scale 1-5 1 = good 2 = fair 3 = OK 4 = poor 5 = bad	STREAM COND.		SAMPLE DESCRIPTION						Ident.															
	number		sub-no.		day	month	sample no.	project	sheet	height (m)	locality	1	2	3	original	sample size		heavy min. fraction	heavy minerals		grains																				
	type	year	gp.	sub-no.								1	2	3	4	5		6	1	2	1	2	schaeffite	per 51																	
1	4	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	73	80					
1B	86	05	4	3	2	05	7	HAN	W	2	0	2	6	L	L	8	11	D	S	G	P	N	5	1.5																	
1B	S	7	02	3	4	5	09	7	H	A	N	J	7	1	0	1	M	10	0	W	E	G	Q	F	F	K	1	13	R	M	G	F	F								
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GEOLOGICAL MAP OF CENTRAL EAST GREENLAND

Locality Codes

0 50 100 km

-  Quaternary
-  Tertiary basalts
(& alkali intrusions at c. 72° N)
-  Cretaceous
-  Jurassic
-  Permo-Trias (mainly marine)
-  Permo-Carb.
-  Devonian
-  Cambrian-Silurian
-  Late Precambrian & Eocambrian
Eleonore Bay Group & Tillite Group
-  Mid-Precambrian sediments
-  Gneiss, migmatitic and sedimentary complexes
(Caledonian or older)
-  Gneiss complexes (foreland)
-  Fault
-  Thrust

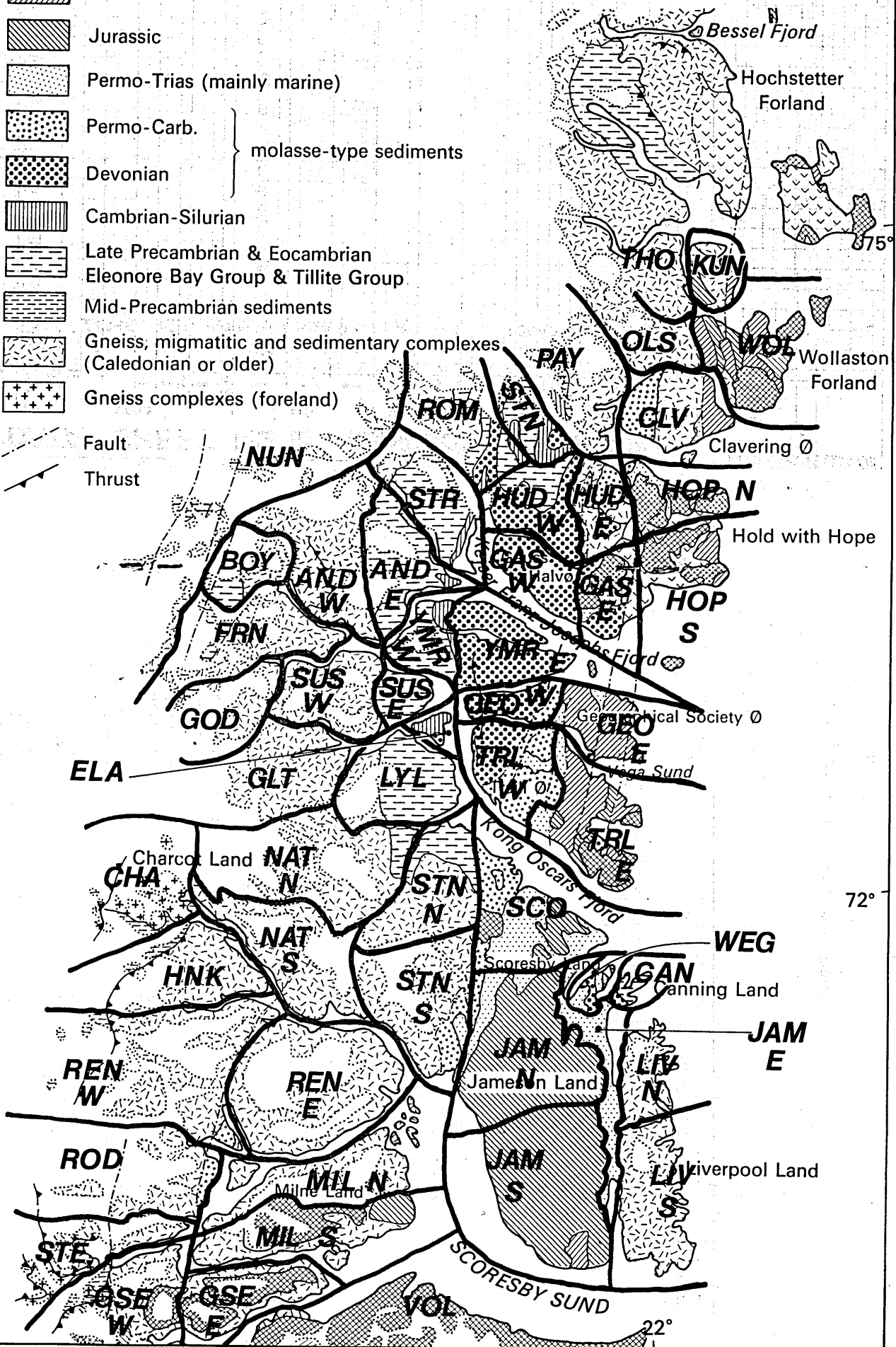
} molasse-type sediments

75°

72°

72°

22°



4. SAMPLE DATA SHEET CODING LISTS

LIST 1a SAMPLE TYPES

The term boulder should be used for water transported float (often reworked moraine). Moraine is ice transported. Scree (talus) has virtually fallen down from the outcropping rocks of the mountains above.

rock (outcr., boulder, scree, moraine)	GO, GB, GS, GM
rock, unconsolidated (sand and fragments etc)	GU
grab (outcr., boulder, scree, moraine)	RO, RB, RS, RM
chip	CP
channel	CN
bulk	BU
composite (outcr., boulder, scree, moraine)	CO, CB, CS, CM
profile	PR
lithochemical profile	LP
drill core	DC

LIST 1b. SAMPLE TYPES

pan samples, panned scree, panned moraine	W, WS, WM
stream sediment, scree fines, moraine fines	S, SS, SM
soil	SO
water	WA
organic	OR

LIST 2. RELIABILITY

good	1, default value
suspect	2
poor	3

LIST 3. PROJECT

reconnaissance	R
Bredehorn	B
copper	C
lead-zinc	P
uranium	U
scheelite	W
molybdenum	M
arsenic-gold	A
niobium	N
zirconium (REE)	Z
kyanite	K
hydrocarbon (coal)	H
Jameson Land	J
EBG	E
Q 16	Q
Tertiary intrusives	T

LIST 4 STRATIGRAPHY

sedimentary

rocks

GGU codes, 70-72°N

Haller codes, 72-76°N

	GGU codes, 70-72°N	Haller codes, 72-76°N		
Quarternary			27	
Tertiary			26	
Cretaceous	Hesteelv Fm. (H)	HF	Upper Cretaceous	25
	Muslingeelv Mem.	H2	Lower Cretaceous	24
	Crinoid Bjerg Mem.	H1	Cretaceous (undif.)(24-25)	2425
	Harz Fjeld Fm. (Hz)	HZ		
Jurassic	Raukelv Fm. (R)	RF		
	Fynselv Mem.	R3		
	Salix Dal Mem.	R2		
	Sjøallandselv Mem.	R1		
			Upper Jurassic	23
	Harselv Fm. (Ha)	HA	Middle Jurassic	22
			Lower Jurassic	21
	Olympen Fm. (O)	OF	U-M Jurassic (22-23)	2223
			Jurassic (undif.)(21-23)	2123
	Kronen Fm. (Kr)	KR		
	Kap Leslie Mem.	KR4		
	Marine Siltstone	KR3		
	Aldinger Elv Mem.	KR2		
	Marine Siltstone	KR1		
	Charcot Bugt Ss.Fm.(C)	CF		
	Vardekløft Fm. (V)	VF		
	Fossilbjerget Mem.	V3		
	Pelion Mem.	V2		
	Sorthat Mem.	V1		
	Neill Klinter Fm. (N)	NF		
	Ostreaelv Mem.	N3		
	Gulehorn Mem.	N2		
	Rævekløft Mem.	N1		
	Kap Stewart Fm. (K)	KF		
Triassic	Fleming Fjord Fm. (F)	FF		
	Ørsted Dal Mem.	F3	Upper Triassic	20
	Malmros Klint Mem.	F2	Middle Triassic	19
	Edderfugldal Mem.	F1	Lower Triassic	18
	Pingel Dal Beds	PB	Triassic (undif.)(18-20)	1820
	Sporfjeld Beds	SB		
	Gipsdal Fm. (G)	GF		
	Kap Seaforth Mem.	G2		
	Solfaldsdal Mem.	G1		
	Gråklint Beds	GB		
	Pingodal Fm. (P)	PF		
	Syd kronen Mem.	P4		
	Paradigmabjerg Mem.	P3		
Rødstaken Mem.	P2			
Klitdal Mem.	P1			
Wordie Creek Fm. (W)	WF			

	GGU codes, 70-72°N		Haller codes, 72-76°N	
Upper Permian	Foldvik Creek Fm. (Fk)	FK	Upper Permian	17
	Clastic Mem.	FK5		
	Martinia Limestone Mem.	FK4		
	Gypsum Mem.	FK3		
	Posidonia Shale Mem.	FK2		
	Limestone-Dolomite Mem.	FK1		
	Conglomerate Mem.	FK0		
Lower Permian- Carboniferous	undifferentiated (C-P)	CP	Permian (undif.) (16-17)	1617
	Rødø Conglomerate		Lower Permian	16
	Cross-bedded sst.assoc.	CP4		
	Gypsiferous sst.assoc.	CP3	Upper (middle) Carboniferous	15
	Silty sst.assoc.	CP2	Carboniferous (undif.) (1415)	1415
	Conglomerate assoc.	CP1		
Upper Devonian	Quensel Bjerg Fm. (Q)	QF	Upper Devonian	
	unspecified (Pz)	PZ	Mt. Celcius series (13c)	13C
			Kap Graah series (13b)	13B
			Kap kolthoff series (13a)	13A
Middle Devonian	Vimmelskiftet Fm. (Vi)	VI	Middle Devonian	12
	Red & green banded silt M	VI3	U-M Devonian (undif.) (12-13)	1213
	Grey sst. Mem.	VI2	M. Devonian (metamorphosed)	12M
	Red silstone Mem.	VI1		
	W. Hestekoen Congl. Fm.	WH		
	S. Hestekoen sst. Fm.	SH		
	Basisdal Conglom. Fm. (Ba)	BA		
Devonian	undif., (Wegener Halvø).	VQ		
Ordovician				11
Cambrian	(E)	CA		10
Eocambrian	Tillite Group (T)	TF1		9
Precambrian (EBG)	Limest.-dol. series (18-19)	L2	limestone-dolomite series	8
	Limest.-dol. series (14-17)	L1		
	Multicoloured ser. (11-13)	M2	multicoloured series	7
	Multicoloured ser. (7-10)	M1	upper quartzite series	6
	Quartzite series (Qz)	QZ	lower quartzite series	5
	Blk.shales with Qtzite (A)	AF	argillaceous-arenaceous ser.	4
			calc-argillaceous series (4a)	4A
			arenaceous series	3
			phyllite series (3b)	3B
			Mysterie quartzites (3a)	3A
			Basal Series (calc.bed.Gp.)	2
			Basal Ser. (psammitic bed Gp.)	1
			slightly metamorphosed EBG	5M
				4M
				etc.

igneous rocks

	GGU codes, 70-72 ° N		Haller codes, 72-76 ° N	
Cretaceous-Tertiary	nepheline syenite (ψ)	PS	nepheline syenite	U
	syenodiorite-monzonite (α)	AL	syenite	V
	alkali syenite (σ)	SI	monzonite (m)	M
	alkali granite (ϵ)	EP	granite	W
	gabbro & pyroxenite ($\delta 1$)	DE1	pyroxenite, gabbro, diorite	X
	porphyries & breccia (τ)	TA	extrusives, pyroclastics	Y
	basalt (β)	BE	basalt	Z
	dolerite dykes & sills (δ)	DE	basalt and pyroclastics	YZ
	basic stocks (Tert.?) ($\delta \&$)	DE5	intrusive rhyolite	RH
	basic dykes (age?) (ω)	OM	intrusive breccie	BX
	acid dykes (age?) (γ)	GAM	quartz veins (q)	QU
	including hydrotherm.veins			
	Devonian	K.Wardlaw granite (ggi)	GGI7	granite
rhyodac.,dacite,rhyolite		RH	rhyolite	S
(rh)				
tuff (-sediments) (vo)		VO	basalt granite-rhyolite (R-S)	T RS
Late Caledonian & older	pegmatite & quartz veins	P	lamprophyre pegmatite,aplite,quartz veins post tectonic granite syn-tectonic granites granite (syn-post) (N-0)	Q P O N NO

crystalline rocks

	Haller codes, 72-76 ° N
quartzitic schists, gneiss	L
bedded quartzite to gneiss	K
mica schist, biotite gneiss	J
marble, calcareous mica schist, gneiss	H
amphibolite (Ga)	GA
peridotite (Gp)	GP
amphibolite-peridotite (Ga-p)	GAP
green schist (Gs)	GS
amphibolite-greenschist (Ga-s)	GAS
migmatite gneiss	F
K-feldspar augen gneiss	E
porphyritic granodiorite	D
synorogenic granite (ultrametamorphic rocks)	C
schist-granite-pegmatite basement (J-O-P)	JOP
schist granite basement (J-O)	JO

crystalline rocks (continued)

GGU codes, 70-72°N

	1 Charcot Land	2 Paul Stern Land	3 Krummedal sequence	4 Basement (inner fjord)	5 Migmatite zone	6 E. Milne Land	7 Liverpool Land
quartzite (q)	Q1	Q2	Q3		Q5	Q6	
semi-pelite (sp)	SP1						
mica schist (ms)	MS1		MS3	MS4		MS6	MS7
carbonate-marble (c)	C1	C2	C3	C4	C5	C6	C7
green (chlorite) schist (vs)	VS1	VS2		VS4			
tillite (t)	TF1						
pelite, Pelitic schist (p)	PE1	PE2					
mica schist with q'ite inter- bands (msq)						MSQ6	
q'ite with interbedded ms (qms)			MSQ3 QMS3				
mica schist gneiss (mgn)			MGN3				
amphibolite (a)	A1	A2	A3	A4	A5		A7
basic extrusives (ae)	AE1						
hnbl. gabbro, amphibolite (ai)	AI1			AI4			
monzonite (mg)					MG5	MG6	
intermediate intrusive (di)					DI5		
ultrabasite (ub)			UB3	UB4	UB5		UB7
siliceous gneiss (qgn)		QGN2	QGN3	QGN4	QGN5		QGN7
gneiss (gn)	GN1			GN4	GN5		GN7
granodioritic gneiss (agn)							AGN7
granitic gneiss (ggn)				GGN4			GGN7
gneissic migmatite (gnm)					GNM5	GNM6	GNM7
granitic migmatite (gm)					GM5	GM6	
basic gneiss (bgn)							BGN7
granite (g)	GR1		G3	G4	G5		G7
augen granite (g5a)					G5A		
granodiorite (ag)					AG5		AG7
granite (intrusive) (gi)			GI3		GI5	GI6	GI7
syenite (sgi)					SGI5	SGI6	
granite (s.s) (ggi)	GGI1				GGI5	GGI6	GGI7
granodiorite (intrusive) (agi)					AGI5	AGI6	
quartz diorite (tgi)					TGI5		TGI7
quartz monzonite (mgi)						MG16	MG17

ROCK DESCRIPTION

LIST 5

Structures

bedded BED
 poorly bedded POB
 metre bedded MEB
 dm bedded DMB
 cm bedded CMB
 laminated LAM
 fissile FIS
 interbedded INB
 poorly sorted POS
 well sorted WES
 graded bedding GRA
 current bedded CUB
 cross bedded CRB
 flaser bedded FLA
 zebra structure ZEB
 bioturbation BIO
 ripple marks RIP
 mud cracks MUD
 load structures LST
 slump structures SLU
 porous POO
 oolitic OOL
 concretionary COC
 clast CLA
 vuggy VUG
 interformat-
 ional brecciated IBR
 botryoidal BOT
 stromatolitic STR
 trace fossils TRF
 heavy mine-
 ral horizon HMH
 stylolite STY
 vein VEN
 veinlets VES
 veined VEI
 dyke DYK
 sill SIL
 sheet SHE
 lens LEN
 pod POD
 relict REL
 inclusion INC
 schlieren SHL
 xenolith XEN
 flooding FOO
 wall rock WAL
 (with) fragments FRG
 fragment FRM

homogenous HOM
 massive MAS
 porphyritic POR
 banded BAN
 porphyroblastic PHB
 augen AUG
 agmatitic AGM
 paleosome PAL
 neosome NEO
 spherulitic SPH
 flow banded FLO
 ignimbritic IGN
 pillow PIL
 pyroclastic PCL
 fibrous FIB
 spotted SPO
 miarolitic MIA
 matrix MAT
 groundmass GRM
 myrmekitic MYR
 drusy DRU
 phenocrysts PHE
 euhedral EUH
 subhedral SUB
 anhedral ANH
 unconformity UNC
 disconformity DSC
 concordant CON
 discordant DIS
 contact CNT
 parallel PAR
 stockwork STO
 crosscutting CRO
 jointed JOI
 cleaved CLE
 lined LIN
 foliated FOL
 schistose SCH
 gneissose GNE
 folded FLD
 contorted COT
 brecciated BRE
 breccia filling BRF
 cavity CAV
 faulted FAU
 mylonitised MYL
 sheared SHR
 thrust THR
 slickensides SLI
 fractured FRA

LIST 6

Colours

leucocratic LE
 mesocratic MS
 melanocratic ME
 beige BE
 black BL
 brown BR
 buff BF
 blue BU
 cream CR
 green GR
 grey GY
 mauve MA
 orange OR
 pink PI
 purple PU
 red RE
 white WH
 yellow YE
 light LI
 dark DA
 rusty RU
 mottled MO
 varicoloured VA

LIST 7

Grain Size

coarse, > 5mm C
 medium, 1-5 mm M
 fine, < 1 mm F

LIST 8
Qualifying minerals
and/or terms

actinolite	ACT	arenaceous	ARE	carbonatite	CAH
amphibole	AMP	argillaceous	ARG	carbonate	CAB
anhydrite	ANH	argilla-		chert	CHE
anorthite	ANO	ceous schlieren	ASC	coal	COL
apatite	APA	augen	AUG	conglomerate	CON
asbestos	ASB	bituminous	BIT	clay	CLA
baryte	BAR	calc silicates	CAS	diorite	DIO
beryl	BER	calcareous	CAC	dolerite	DOE
biotite	BIO	calcareous incl.	CAI	dolomite	DOL
bitumen	BTU	carbonaceous	CAR	eclogite	ECL
calcite	CAL	cherty	CHE	evaporite	EVA
celestite	CEL	clay galls	CLA	gabbro	GAB
chlorite	CHL	conglomeratic	CON	gneiss	GNE
clinopyroxene	CPX	contact metamor.	COM	gossan	GOS
coal	COL	dolomitic	DOL	granite	GRA
cordierite	COR	earthy	EAR	granodiorite	GRD
corundum	COU	feruginous	FER	granophyre	GPY
diopside	DOP	fossiliferous	FOS	granulite	GRN
dolomite	DOM	glass (volc.)	GLA	greenschist	GSC
epidote	EPI	granitic	GRA	greenstone	GST
feldspar	FEL	hybrid	HYB	greisen	GEI
fluorite	FLU	meta-	MET	greywacke	GRE
garnet	GAR	migmatitic	MIG	gritstone	GRT
glaucosite	GLU	organic	ORG	hornblendite	HBL
gypsum	GYP	ortho-	ORT	hornfels	HOR
halite	HAL	para-	PAR	hydrotherm. vein	HYD
hornblende	HBL	pegmatitic	PEG	ignimbrite	IGN
idocrase	IDO	plant fossil	PLF	kimberlite	KIM
jasper	JAS	phosphatic	PHO	lamprophyre	LAM
K-feldspar	KFE	qtzo-feldspatic	QSF	limestone	LIM
kyanite	KYA	rusty	RUS	latite	LAT
limonite	LIM	sandy	SAN	mafic	MAF
lepidolite	LEP	siliceous	SIC	marble	MAR
mafics, undefi.	MAF	silty	SIL	migmatite	MIG
magnesite	MGS	syenitic	SYN	monzonite	MON
two (2) mica	TMI	volcanic	VOL	mudstone	MUD
mica	MIC	vein aplite	VAP	mylonite	MYL
muscovite	MUS	vein baryte	VBA	norite	NOR
nepheline	NEP	vein calcite	VCA	pegmatite	PEG
olivine	OLI	vein dolerite	VDO	pelite	PEL
orthopyroxene	OPX	vein dolomite	VDL	phosphate	PHO
phlogophite	PHL	vein fluorite	VFL	phyllite	PHY
plagioclase	PLA	vein granite	VGR	porphyry	POR
quartz	QUA	vein pegmatite	VPE	quartzite	QUA
rutile	RUT	vein quartz	VQZ	rhyolite	RHY
scapolite	SCA	vein syenite	VSY	sandstone	SAN
sericite	SER	vein silica	VSI	semipelite	SPE
serpentine	SEP	vein trachyte	VTR	serpentinite	SEP
siderite	SID			schist	SCH
sillimanite	SIM			shale	SHA
sodalite	SOD			skarn	SKA
spene	SPE			siltstone	SIL
staurolite	STA			slate	SLA
talc	TAL			syenite	SYE
topaz	TOP			tillite	TIL
tourmaline	TOU			trachyte	TRA
tremolite	TRE			tuff	TUF
vesuvianite	IDO			ultrabasic	ULT
wollastonite	WOL			ultramafic	ULT
zoisite	ZOI			vein quartz	VQZ
		LIST 9			
		Rock Types:			
		agglomerate	AGG		
		amphibolite	AMP		
		anorthosite	ANO		
		apelite	APL		
		arenite	ARE		
		argillite	ARG		
		arkose	ARK		
		basalt	BAS		
		breccia	BRE		

ORE DESCRIPTION

LIST 10

Ore Minerals

arsenopyrite	APY
azurite	AZU
bismuthinite	BIS
bornite	BOR
cassiterite	CAS
chalcocite-	
digenite	CHA
chalcopyrite	CPY
chromite	CHR
cinnobar	CIN
copper, native	COP
covelline	COV
cuprite	CUP
fahlore	FAH
fucksite	FUC
galena	GAL
goethite	GOE
gold	GOL
graphite	GRA
hematite	HEM
hydrozincite	HYD
ilmenite	ILM
magnetite	MAG
malachite	MAL
molybdenite	MOL
molybdic ocher	MOO
monazite	MON
pentlandite	PEN
platinum	PLA
pyrite	PYR
pyrrhotite	PRR
scheelite	SCH
silver	SIL
sphalerite	SPH
stibnite	STI
wolframite	WOL
zircon	ZIR
Mn-oxides	MNO
U, Th oxides	UTO
sulphosalts (complex sulphides)	SUL
mixed sulphides (Fe sulphides to-	
gether with base metal sulph.)	MIX
chalcopyrite + pyrite	CHP
Cu, Pb, Zn sulphides, (mixed)	CPZ
Pb, Zn sulphides (mixed)	PZS
Cu arsenide, oxide, sulphide	CUA, CUO, CUS
cobalt arsenide, oxide, sulphide	COA, COO, COS
Fe arsenide, oxide, sulphide	FEA, FEO, FES
Ni arsenide, oxide, sulphide	NIA, NIO, NIS
rare earth minerals (& Nb, Ta)	REM

LIST 11

ore structures

structure 1 (column 65 on data sheet)	structure 2 (column 66)	structure 3 cols. 67-68)	structure 4 (degree of space filling) (column 69)
massive	M mineral	M concordant	CO >98% filled (compact)
blebs	B veinlets	V discordant	DI 98-95% (good)
disseminated	D open space	O parallel	PA <95% (poor)
vein	V symmetrical	S stockwork	ST
coating	C asymmetrical	A joint	JO
		D fault	FA
		B breccia	BR
		solution cavity	SC
		cement	CE

LIST 12

Wall Rock Alteration

K-feldspar alt.	KF
silicified	SI
sericitised	SE
argillised	AR
kaolinised	KA
bleached	BL
propylitised	PR
epidotised	EP
chloritised	CH
albitised	AL
pyritised	PY
rust	RU
Mn-staining	MN
greisen	GR
skarn	SK
dolomitised	DO
barytised	BA
pinking	PI
darkened	DA
weathered	WE
hyd. alt. unsp.	HY
hyd. sec. mineral	HM

LIST 13

Ore Minerals, Amount

Trace (<1% vol)	T
Minor (1-5%)	M
Common (5-10%)	C
Abundant (>10%)	A

LIST 14

stream conditions

flow rate	stream bed	bed sediment size	sorting in bed	staining
dry	D moraine M	clay C	good G	none N
stagnant	S alluvium A	sand S	fair F	Fe F
flowing	F scree S	gravel-pebbles G	poor P	Mn M
rapid flow	R bedrock B			organic O
active glacier	G			

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LIST 8, QUALIFYING MINERALS, side 21:
SYN = syenitic rettes til SYE

NYE KODER

LIST 4, STRATIGRAPHY, side 17:
Quartzite series undifferentiated 56
(indsættes mellem kode 5 og kode 6 i 2. spalte)

LIST 5, STRUCTURES, side 20

Pebbledyke PEB
Crenulate CRE
Boxwork BOX

LIST 8, QUALIFYING MINERALS, side 21

Aplitic APL
Basic BAS

LIST 9, ROCK TYPES, side 21

Felsite FEL
Vein baryte VBA

LIST 10, ORE MINERALS, side 22

Marcasite MAR