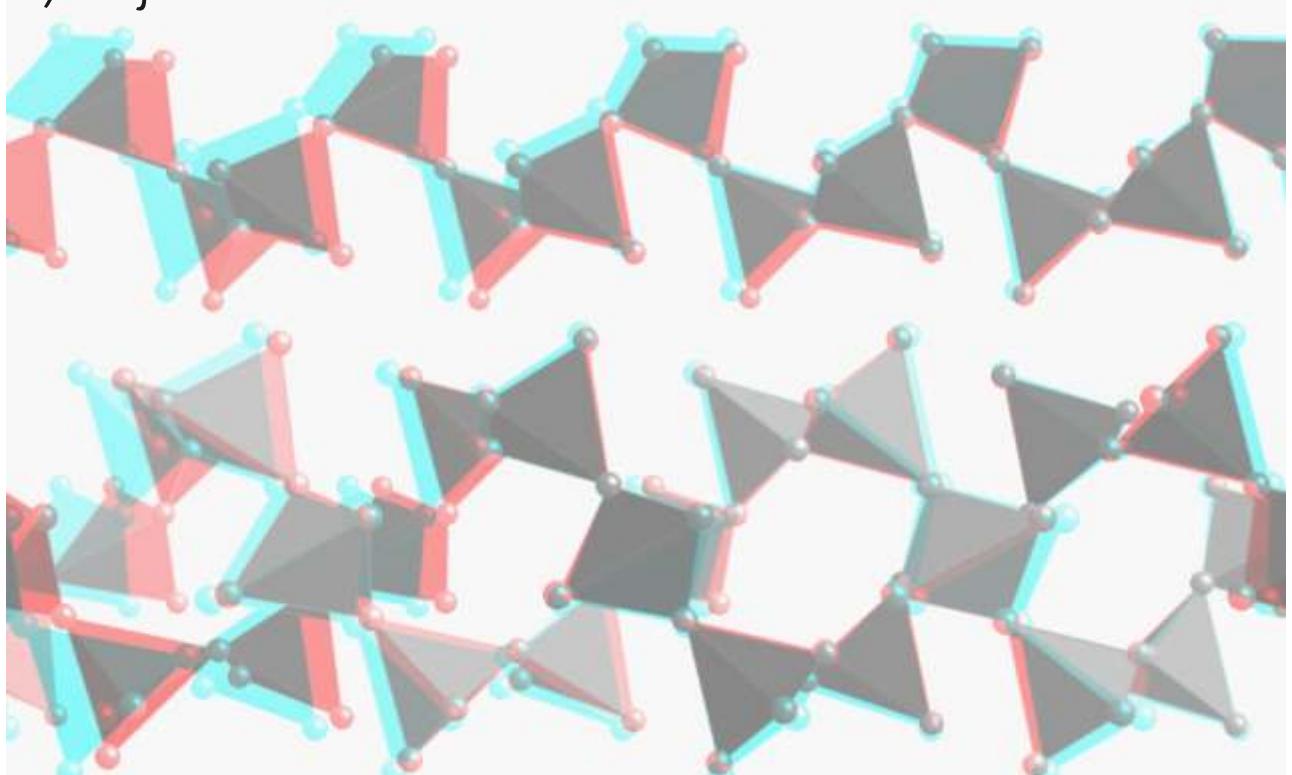


Planche 1.3.1

Tredimensionelle skitser af venstrehåndet a-kvarts. Hentet på <http://Webmineral.com>.  
Vendes 3D brillerne på hovedet ses kvarts krystallen fra den anden side

a) Højrehåndet -kvarts



b) Venstrehåndet -kvarts

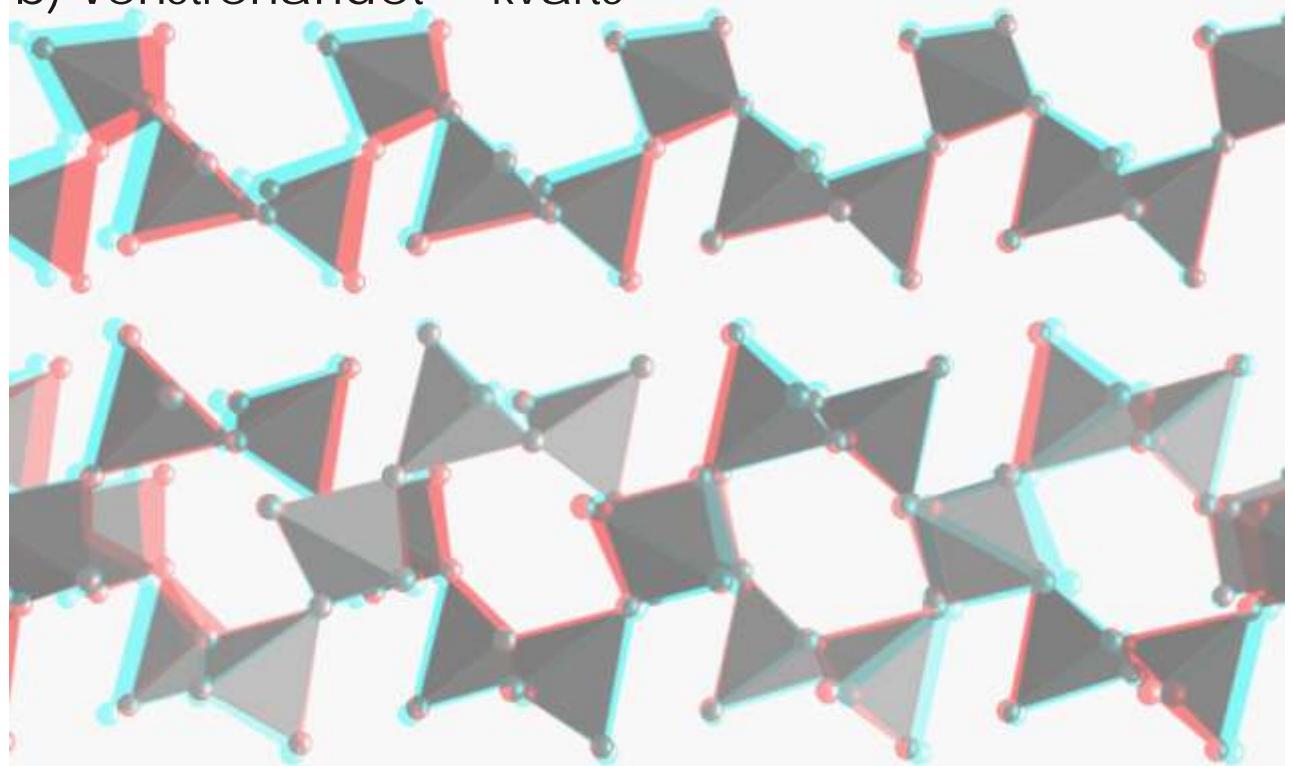


Planche 1.3.2

Illustrationer af -kvarts strukturen. Nogle af tetraederne er fjernet, så man bedre ser de elementer som kendetegner strukturen. Seks skrueakser opbygger den pseudoheksagonale helix. Figuren er konstrueret ved hjælp af Crystalmaker 4.0 1994-1999 CrystalMaker software. Billederne er set ind langs polen til 110 planet.



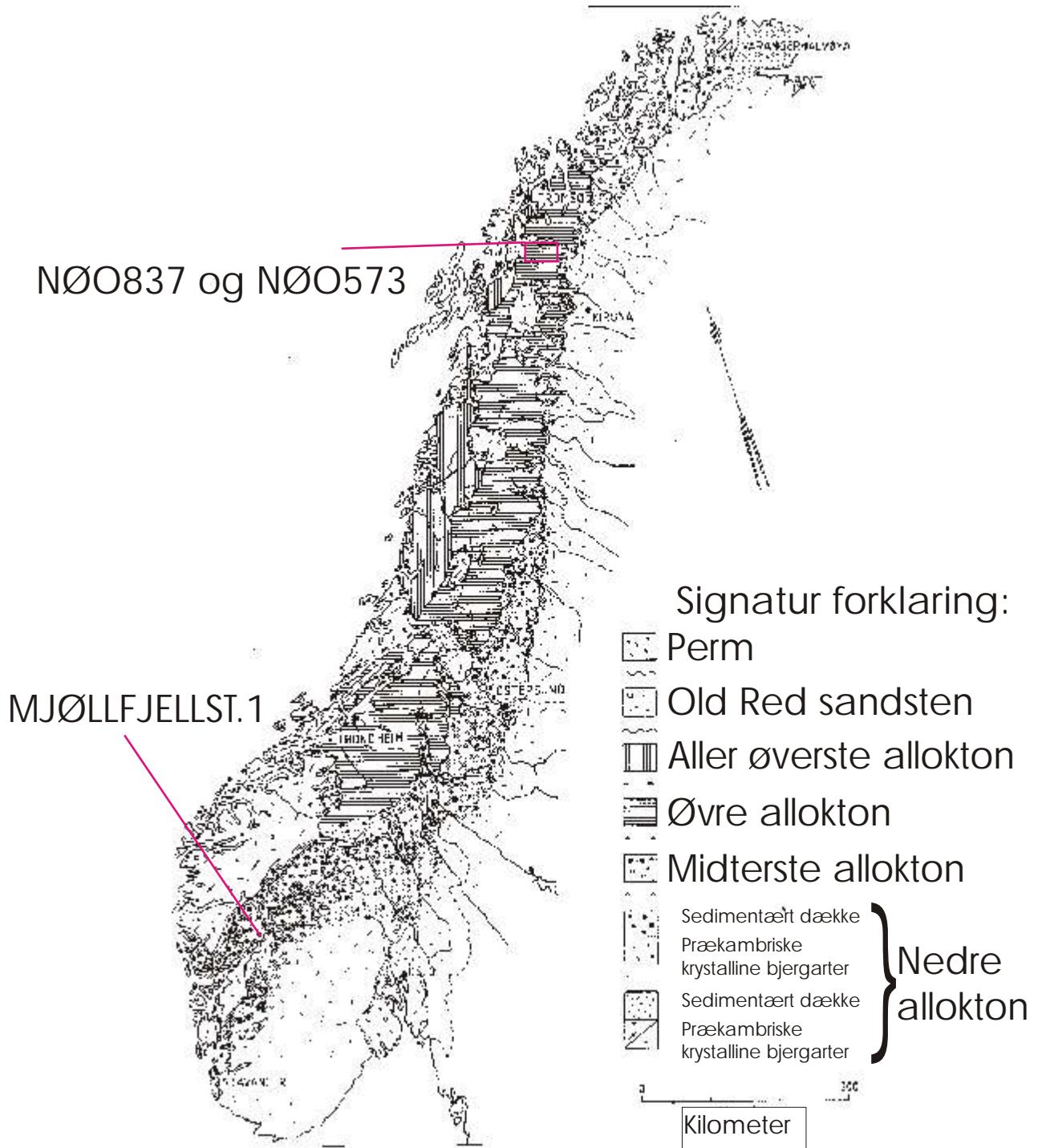


Planche 4.1.1  
Tektonostrigrafisk kort fra Roberts & Gee (1985). De to prøveområder er indikeret

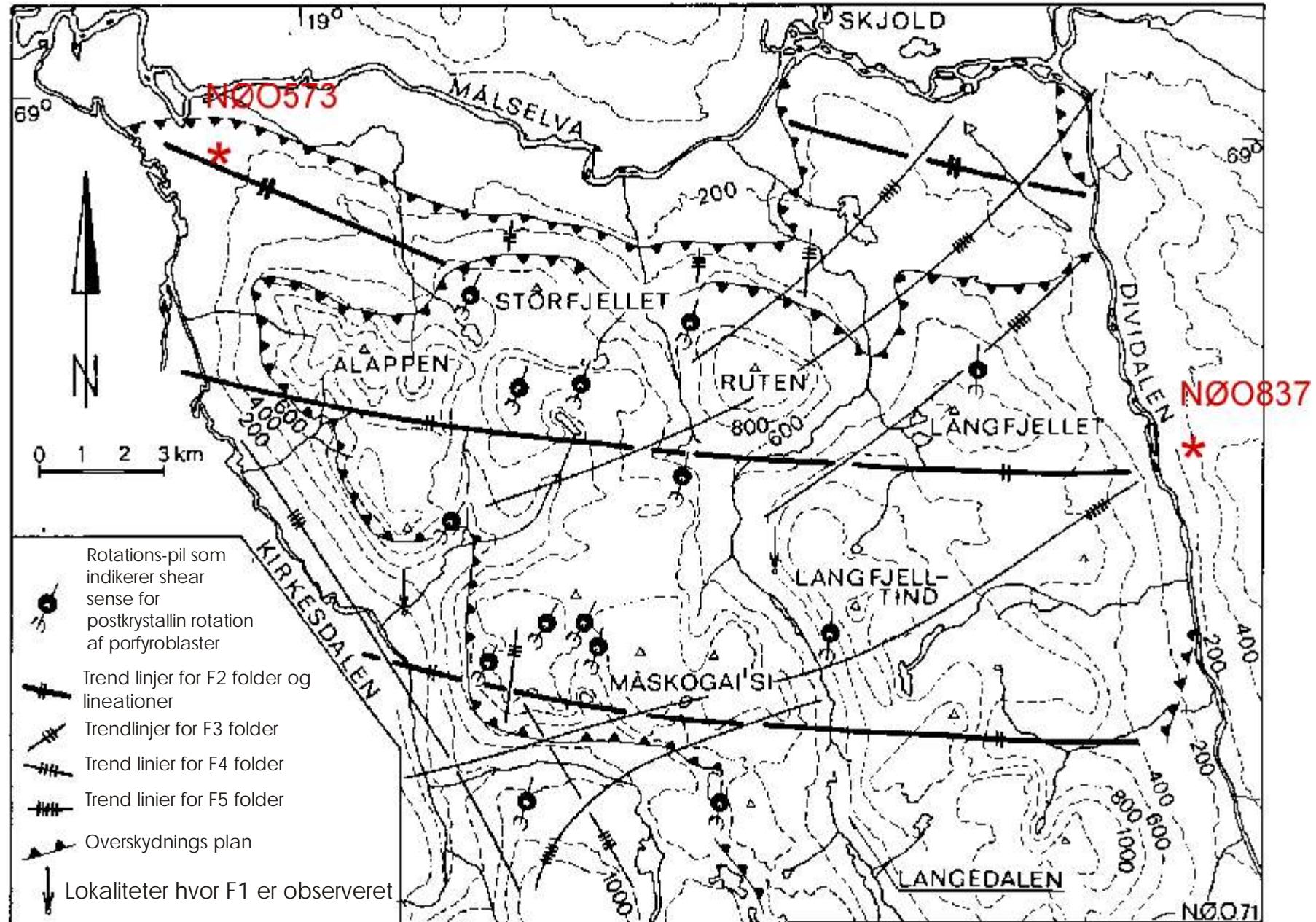
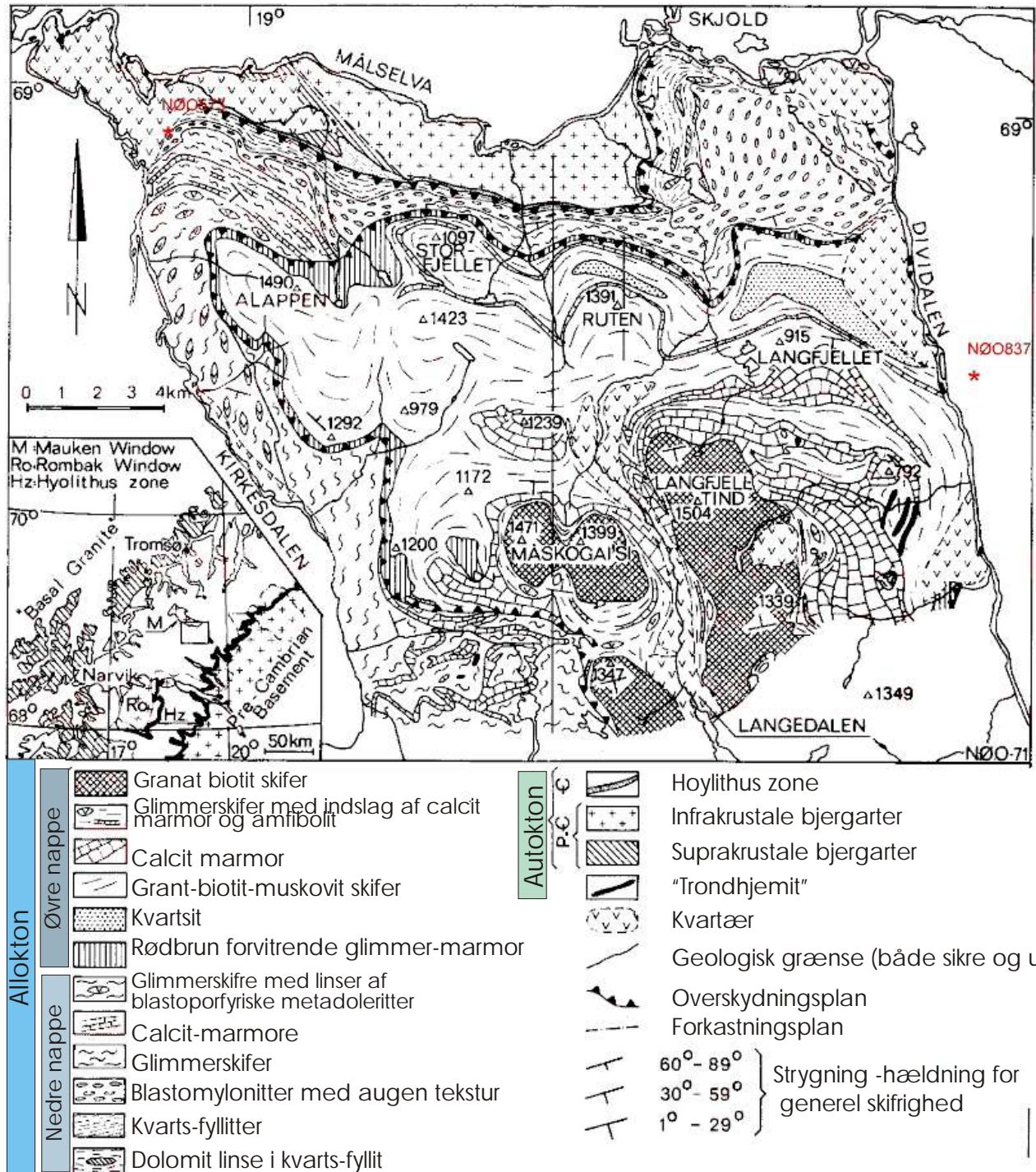


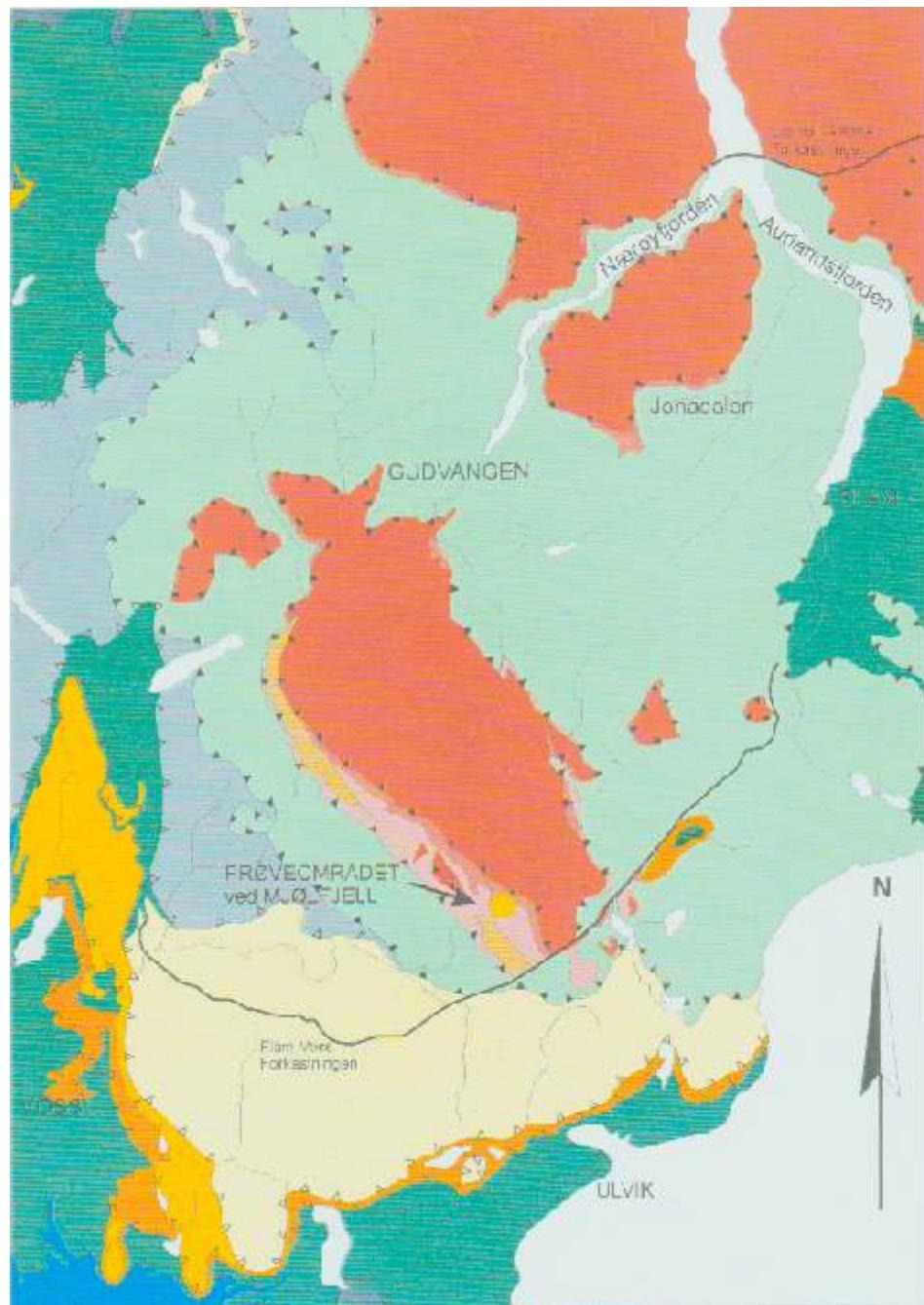
Planche 4.1.2

Tektonisk kort over Dividalen området. Prøvelokaliterne NØO573 og NØO837 er indtegnet. Fra Olesen (1971).



### Planche 4.1.3

Geologisk kort over Langedalen området, fra Olesen (1971). Prøvernes placering er indtegnet.



## Udsnit af kort samlet af Qvale (1982)

### Tektoniske enheder

Upper sheet svarer til Stigancsi-enheder

Lower sheet svarer til Flåm-enheden

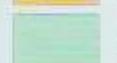
### Jotun-napperne



Upper sheet



Lower sheet upper unit



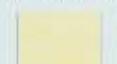
Lower sheet middle unit



Lower sheet lower unit

(læsel) gabbro  
kvarslit og banded gnejs  
manganesitske gnejs / pyroklastisk grusult

### Intermediære nappe-enheder (Øvre Bergdalenis napper)



Tyskadalen nappe



Bulka nappe



Espeland nappe



Kvitnes nappe

### Allotokon/aukton



Fyllitter etc.



Basement



Overskydning / tolket overskydning

Forkastning

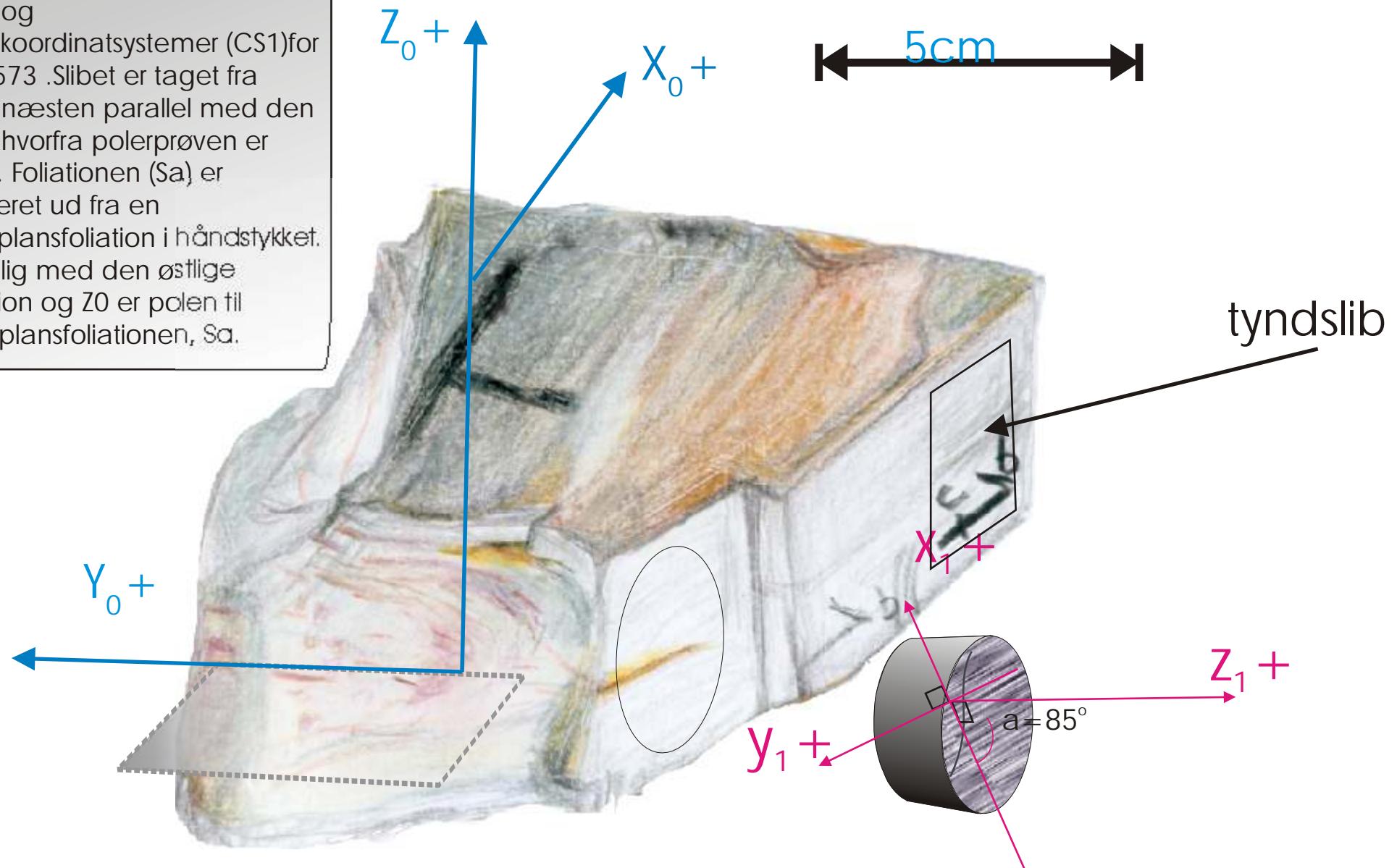


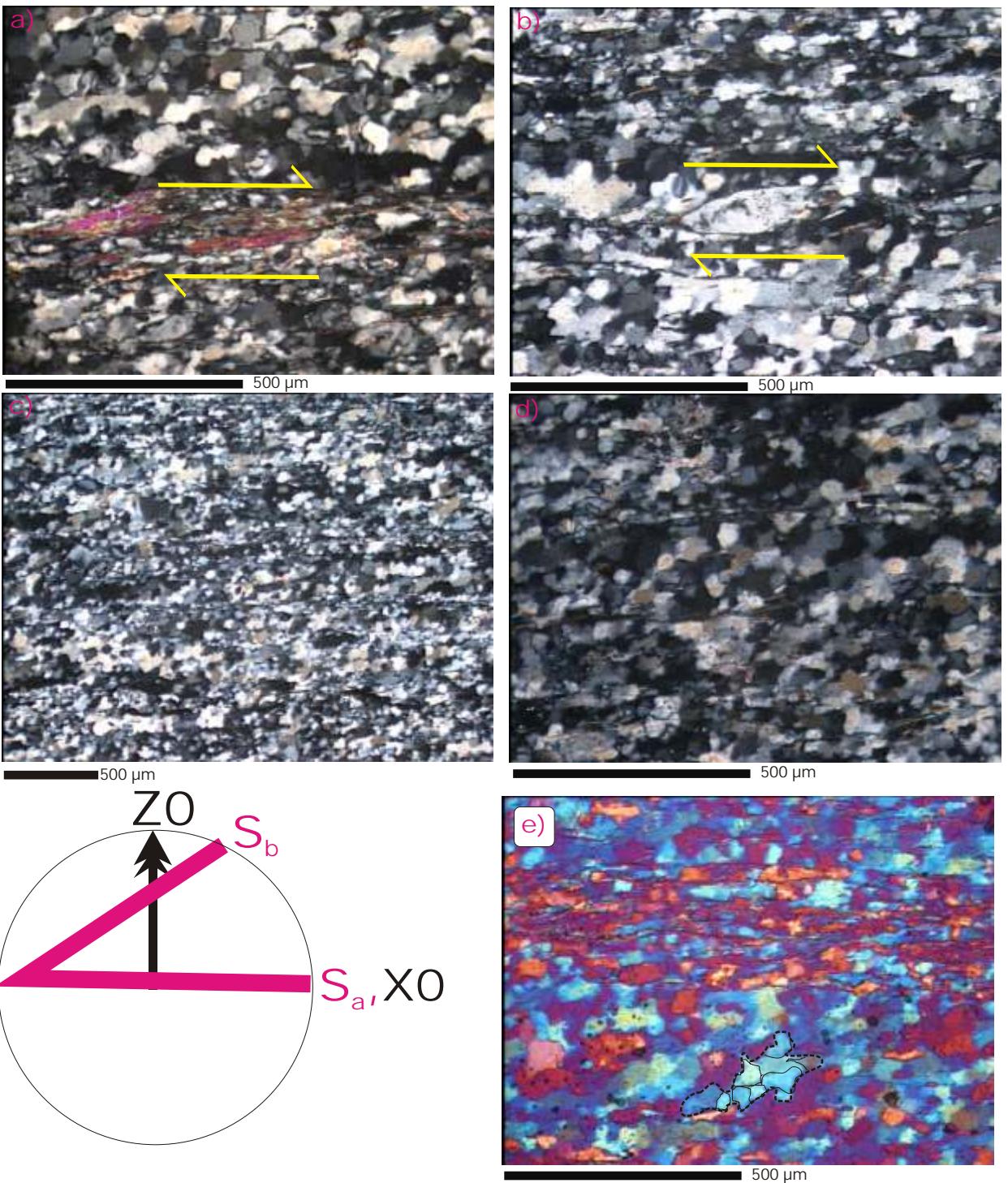
### Planche 4.1.4

Kort der viser placeringen af MJØLLFJELLST.1 og de omgivende bjerarters geologi og tektonik. Cirkel med gult fyld markerer placeringen af MJØLLFJELLST.1. Fra Rasmussen (1998).

### Planche 4.2.1

Relationer mellem håndstykke (CS0) og prøvekoordinatsystemer (CS1) for NØO573. Slibet er taget fra flade næsten parallel med den flade hvorfra polerprøven er taget. Foliationen ( $S_a$ ) er estimeret ud fra en aksialplansfoliation i håndstykket.  $X_0$  er lig med den østlige lineation og  $Z_0$  er polen til aksialplansfoliationen,  $S_a$ .

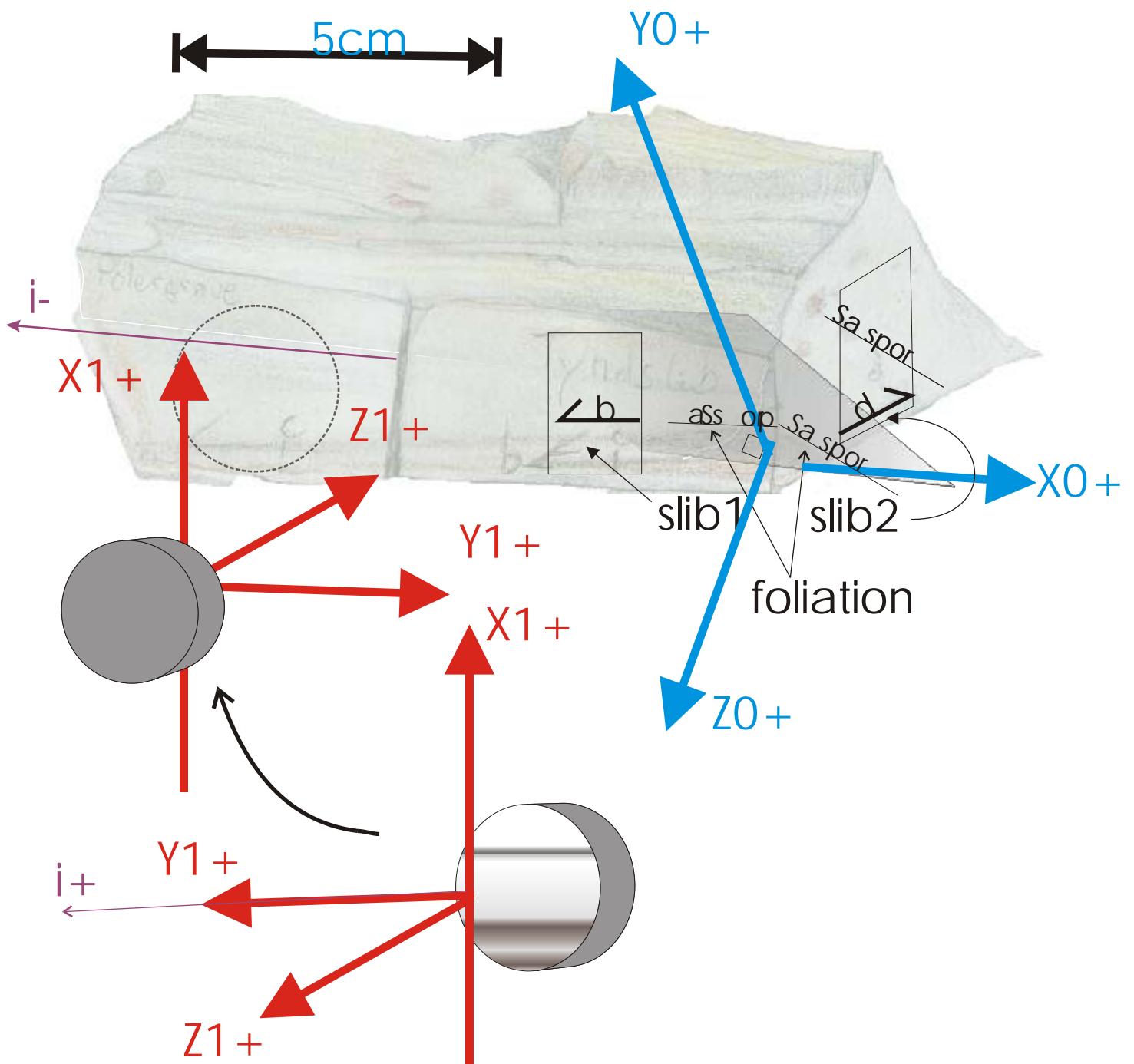




### Planche 4.2.2

mikrostrukturer fra prøve NØ0573. Den skæve kvarts orienteringsgruppe SPO,  $S_b$ , ses på alle fem billeder. Alle billeder er taget i det optiske mikroskop med krydsede nicoller, og gipbladet er indskudt ved billede e. Alle billeder er taget i ens orientering og orienteringen er indikeret i nederste vestre hjørne. Billederne er taget med et Sony DXC-151AP CCD kamera monteret på et Leitz Wetzlar mikroskop.

- a) Kvarts mikrostruktur og muskovit "fisk", som indikerer dexstrshear sense set fra syd (Passhier & Trouw 1998)
- b) Kvarts mikrostruktur og feldspat "fisk", der indikerer dexstra shear sense set fra syd (Passhier & Trouw 1998)
- c) Oversigtsbillede der viser den vertikale kornstørrelses variation af kvartsen
- d) Grovkortet kvarts rigt domæne, den skæve SPO,  $S_b$ , ses tydeligt. Det ses også at muskovit foliationen,  $S_a$ , anastomoserer.
- e) Nogle steder ses den skæve SPO tydeligt, læg mærke til at orienteringfamiliernes interferrens farver ligger i det blå område når gipsbladet er inskudt. En orienteringfamilie er indrammet med fed stiplet linie, og de interne strukture er opridset med tynd sort streg. En ting der falder i øjnene er at orienteringsgrupperne som helhed har en ameobid mikrostruktur. Det ses også at  $S_a$  ikke kan ses i de mere finkornede domæner, hvor kvarts korn væksten har været begrænset af glimmer og feldspat



#### Planche 4.3.1

Relationer mellem håndstykke (CS0) og prøvekoordinatsystemer(CS1). Slib taget på overflade næsten parallel med prøveoverfladen (slib 1) og vinkel på ca 50 grader til foliationen (Sa) og næsten parallelt med lineationen, et andet slib (slib 2) taget vinkeltret på lineationen (XO). Begge slib er oversider, mens polerprøven er en underside. Foliationen (Sa) er konstrueret efter de to tyndslib, idet foliation ikke kan bestemmes i håndstykket. XO er parallel med linieationen Z0, er polen til foliationen (Sa)

## Planche 4.3.2

Mikrostrukturer fra prøve NØO837. a,b,c,d og e viser XZ50 snit, mens e og f viser snittet vinkelret på lineationen. Alle billeder er taget med krydsede nicoller. b, c og e er taget med gipsbladet indskudt. Det er for alle billeder umuligt at skelne mellem kvarts og feldspat. Andre steder kendes feldspatten på grund af polysyntetiske tvillinger.

a) Kvarts korn primært elongeret parallelt med muskovit SPO. Kvarts korn har ameobid til semi ameobid mikrostruktur, mens subkorn har rette grænser der ligger vinkelret på sporet af  $S_a$ . Kvarts korn er indrammet med rød stiplet linie og substrukturer er vist med tynd sort streg.

b) Samme som a bare med inskudt gipsblad. Kvarts SPO'en er vanskelig at se på grund af subkorns dannelse. Kvarts korn er indrammet med rød stiplet linie og substrukturer er vist med tynd sort streg.

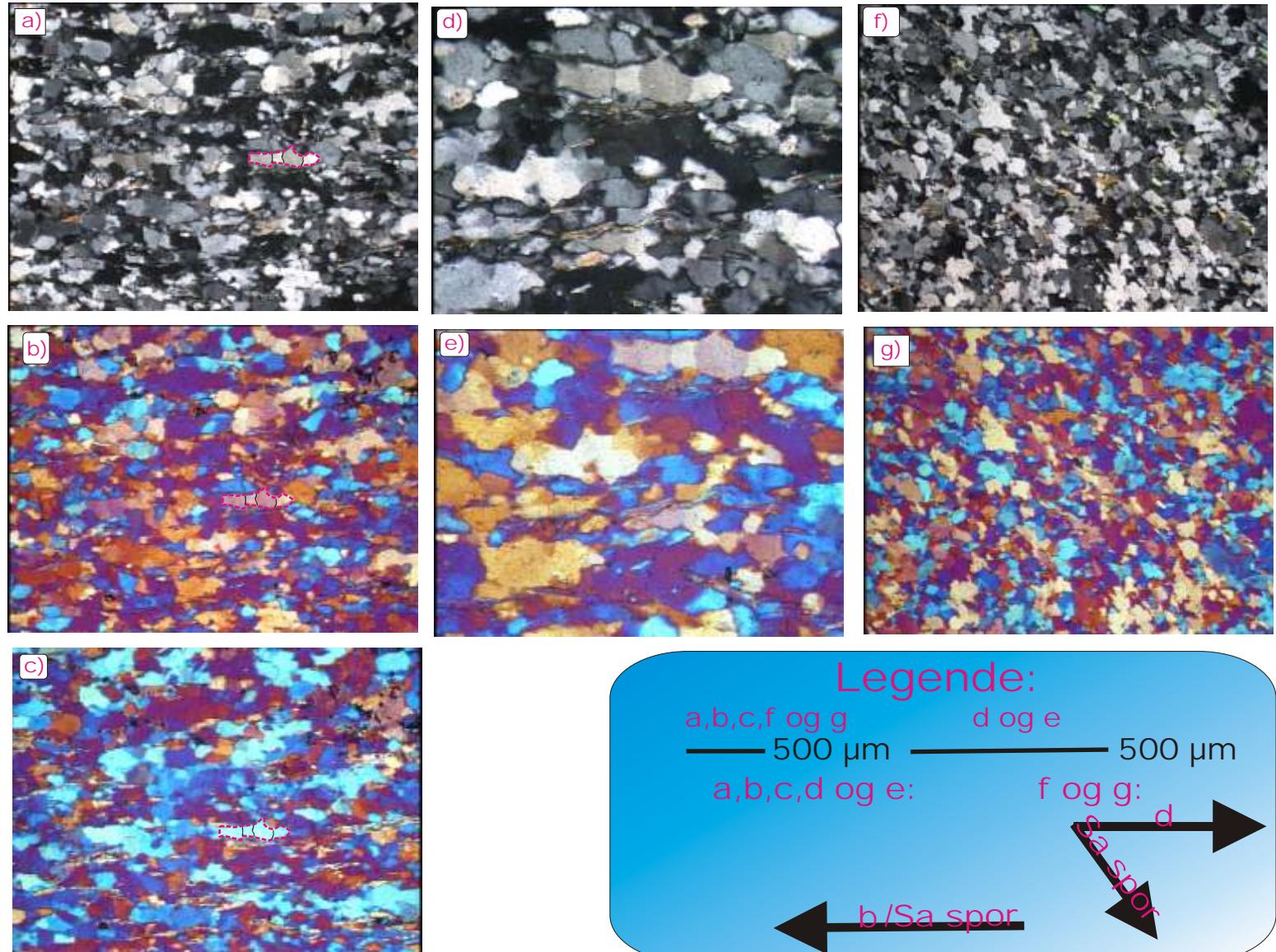
c) Samme område som b). Slibet er roteret så kvarts SPO bedre træder frem (blå interferens farve)

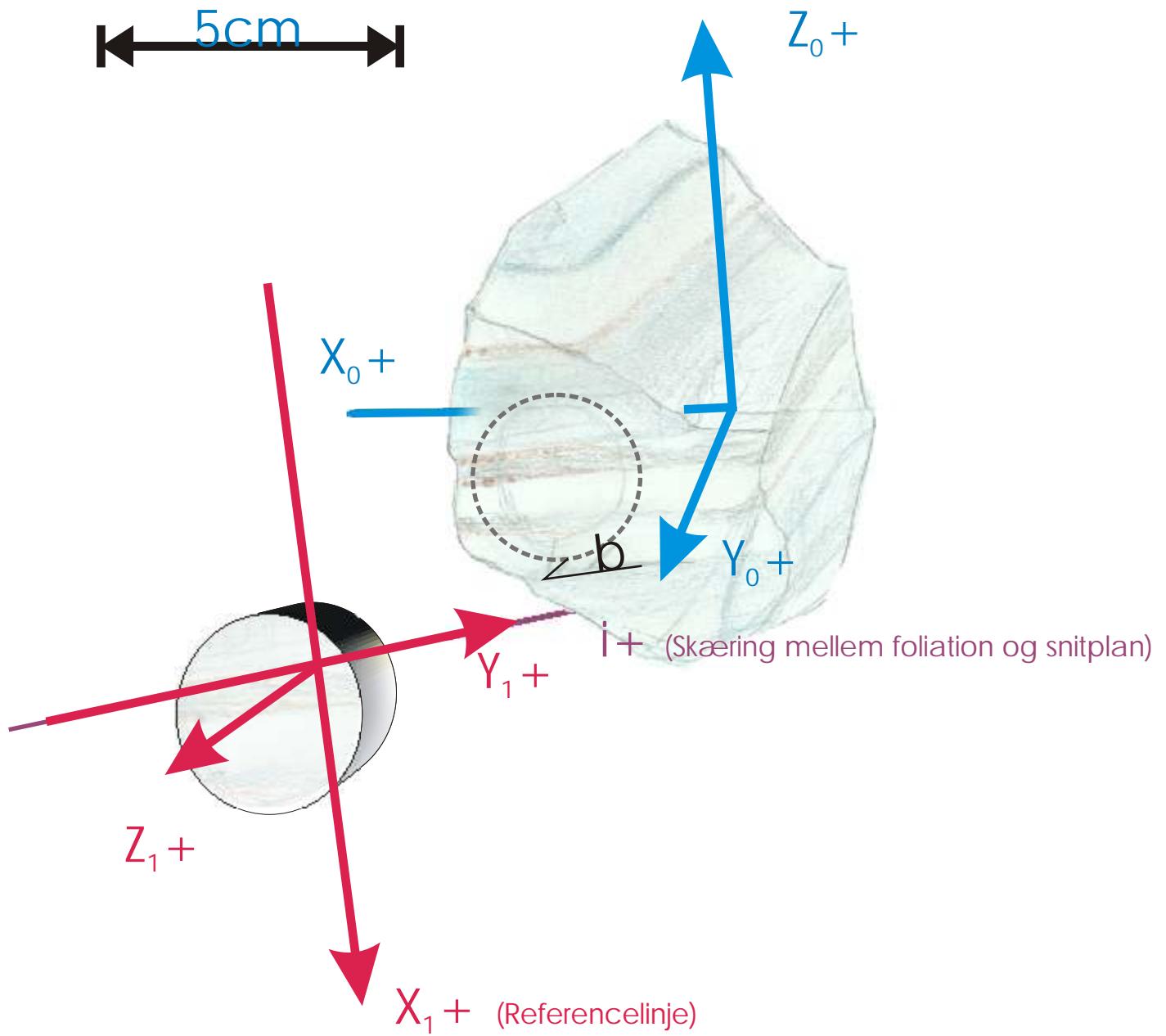
d) zoom på mikrostruktur fra f, læg mærke til at korngrænsene buer ind i hinanden, hvilket også ses for nogle subkornsgrænser

e) mikrostruktur fra d ses endnu bedre når gipsbladet indskydes

f) Snit vinkelret på lineationen. Det fremgår at kvarts SPO'en ikke er ligeså stærk i dette snit. Muskovit SPO viser en del variation, men den mest fremherskende trend ligger parallelt med kvarts SPO'en.

g) Samme som d), med gipsbladet inskudt. Kvarts korn med blå interferens farve illustrerer kvarts SPO'en





#### Planche 4.4.1

Relationer mellem håndstykke (CS0) og prøvekoordinatsystem (CS1). Både polerprøve og tyndslib er XZ snit

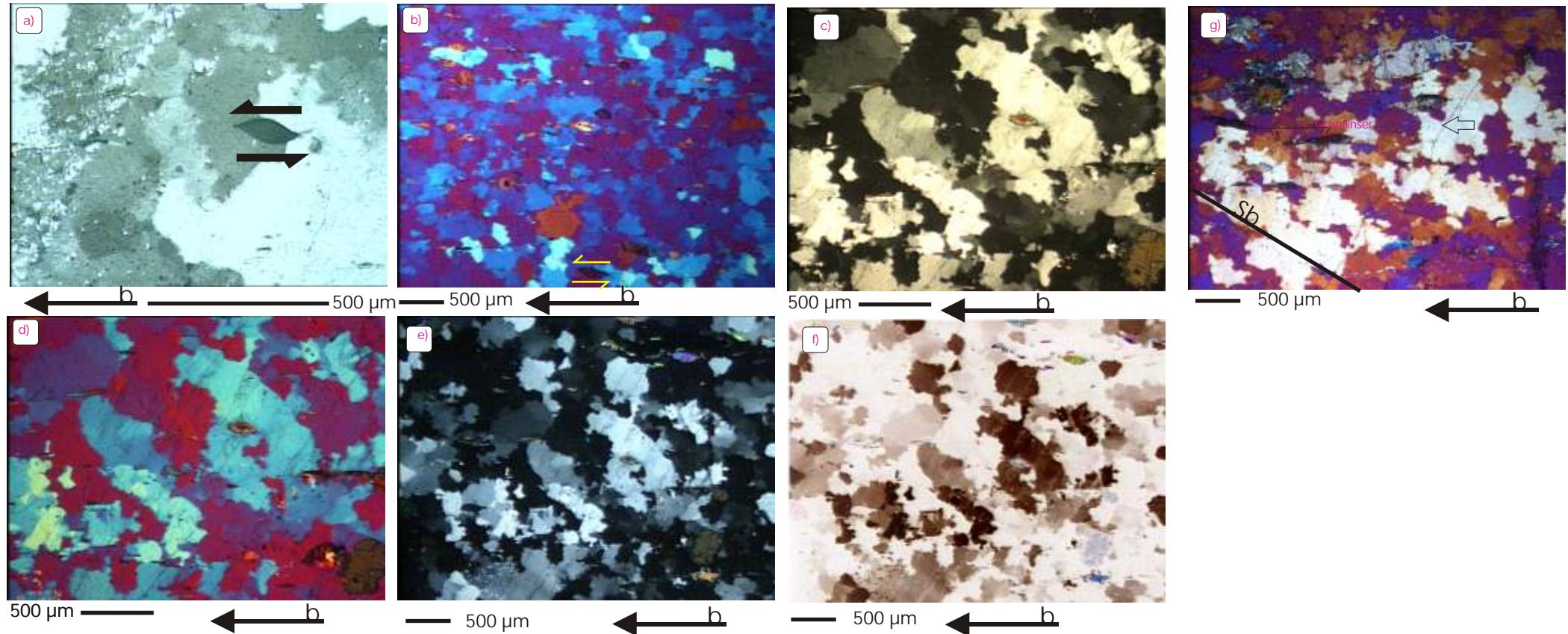


Planche 4.4.2

Mikrostrukturer fra MJØLLFJELLST.1 set i XZ tyndslib. Det gælder for alle billeder at  $S_a$  spor er parallel med b. Billederne er taget med et SONY DXC-151AP CCD kamera, monteret på et Leitz Wetzlar Orthoplan mikroskop.

- a) Sphene "fisk" indikerer sinistral shear sense set fra nord. Kvarts korn har lobate korngrenser og indeholder substrukturen, med lobate korngrenser
- b) Den intermediære korntørrelsesfraktion (200-500 mm) dominerer i dette område. Korn elongation primært parallelt med  $S_a$ , men nogle steder har kornvækst krøbet uden om muskovit og feldspat korn. Intermediær fraktion har ameobid mikrostruktur, mens små korn har rette til buede korngrenser. De sidt nævnte ligger langs randen af eller inden i de større korn. Granat "fisk" indikerer sinistral shear sense
- c) Område med lavere muskovit indhold end b. Store korn (2000 mm) elongeret i en skæv vinkel relativt til  $S_a$ . Store korn indeholder mange substrukterer. De store korn dominerer tyndslibet som helhed p.g.a. deres høje interferrens farve og giver et indtryk af at korntørrelsen er større end i virkeligheden. Subkorn er dannet for enden af lobeerne på de store korn.
- d) Samme som c. Gipsblad indskudt for at fremhæve mikrostruktur. Læg mærke til sprækkerne som skærer længe aksen i de blå kvartskorn i en vinkel på 90 grader
- e) overbliksbillede store lyse korn dominerer, hvilket er synbedrag. I virkeligheden er hovedparten af store korn næsten sorte. D.v.s de har deres c-akser parallelt med YO
- f) Inverteret udgave af e). De sorte korn er nu helt hvide og det ses at de udgør hovedparten af volumen. Det er umuligt at finde pinning strukturer som med sikkerhed viser om de mørke korn æder de lyse eller om det er omvendt
- g) Selvom det generelt er de sorte korn der dominerer findes der zoner med flere af kornene med den høje interfejrens farve de lyse korn ser ud til at definere en skæv foliation  $S_b$ , som er inklineret ca 30 grader i forhold til  $S_a$ . Der ses også granat linser. Pil markerer sprække.

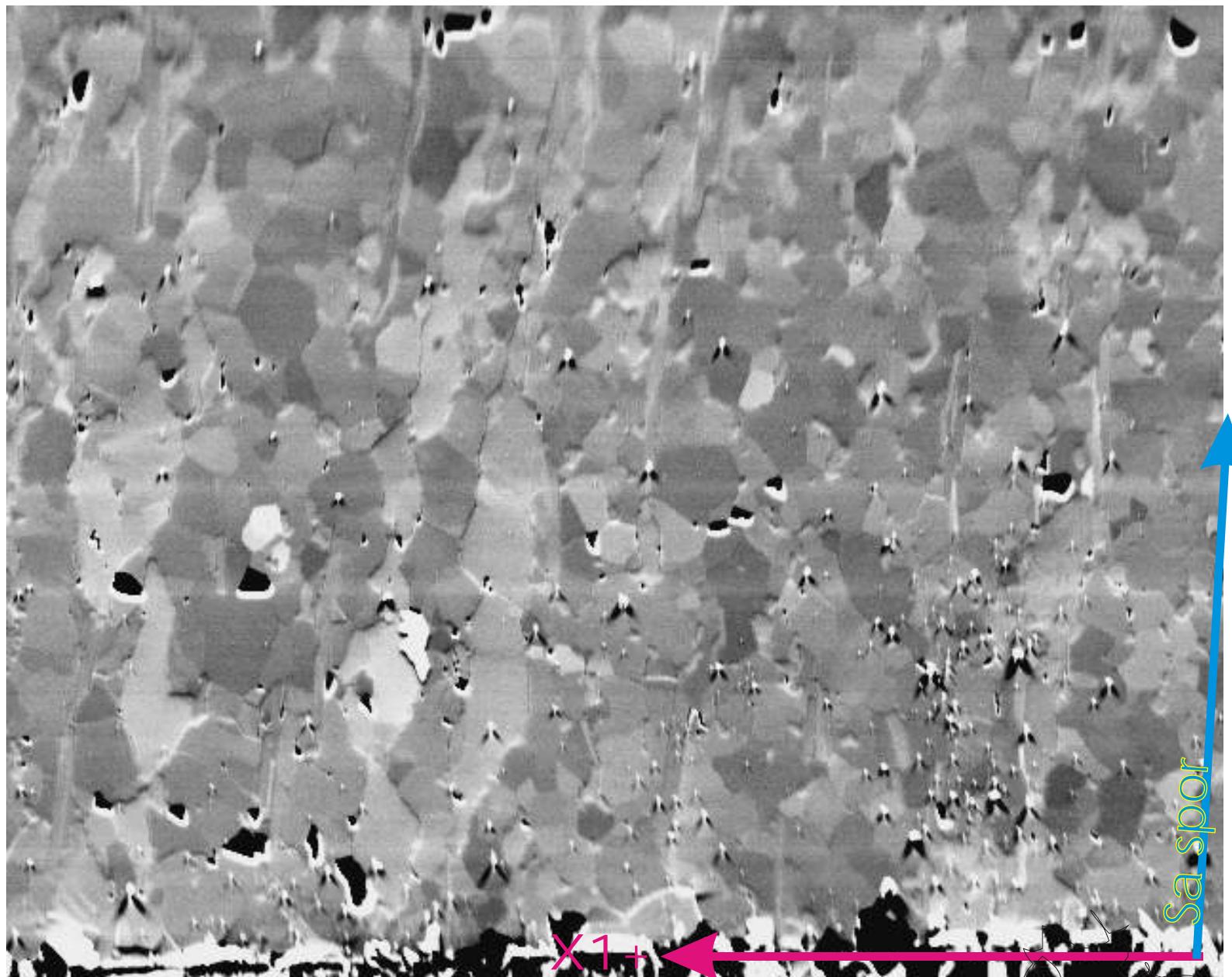


Planche 4.5.1  
FSE billede af  
mikrostrukturer fra  
NØO573. Læg  
mærke til den  
ækvidimensionale  
kornform og de rette  
korngrænser. Billedet  
er 579,7x463,8 µm  
og er optaget ved  
25 Kv og 97,3 µA.

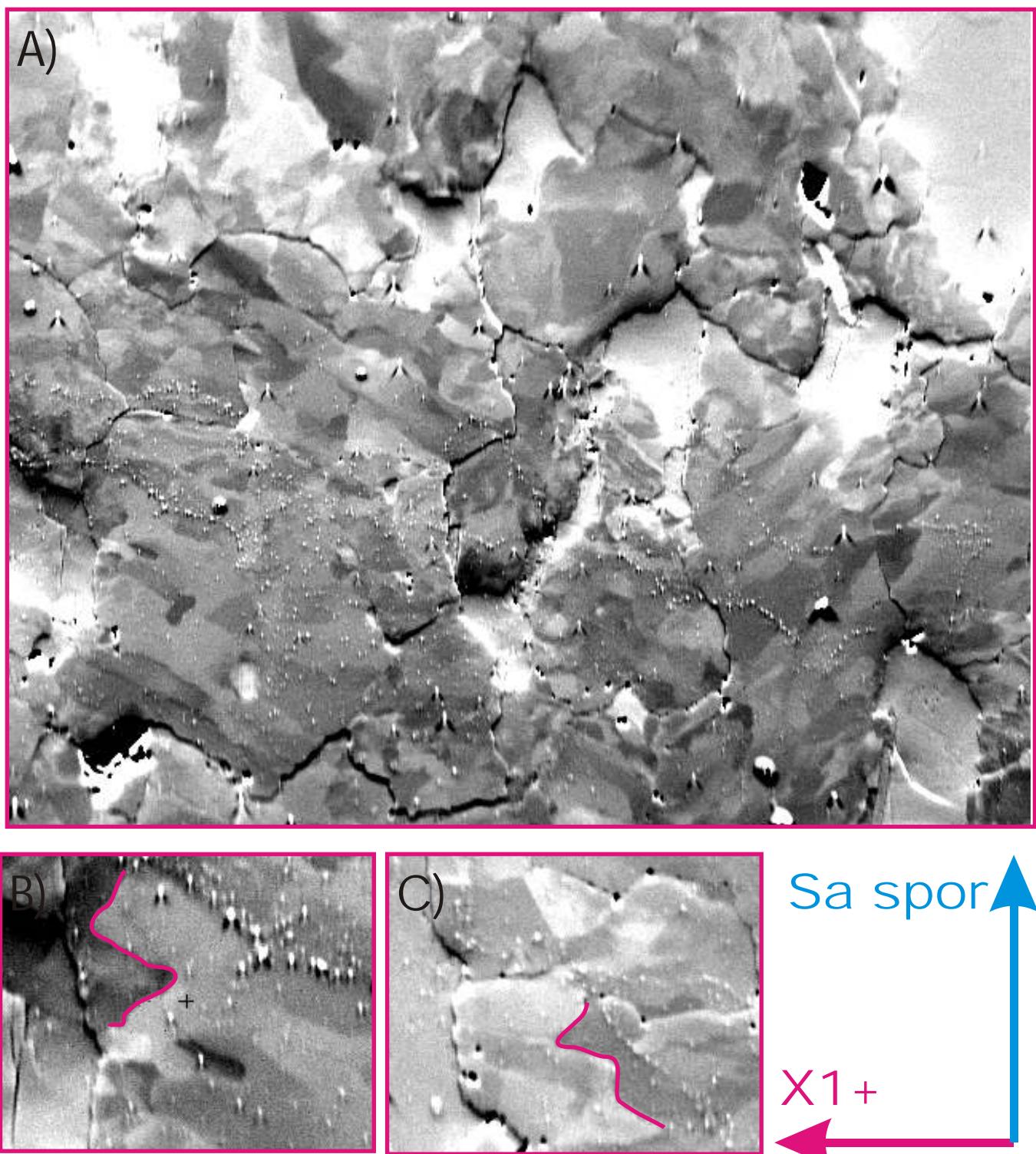


Planche 4.6.1

FSE kontrast billeder fra NØO837

A) Billede af kvarts korngrænser (sorte riller) og subkorns struktur (gråtone variation). Billedet er 439,6x351,6  $\mu\text{m}$  og er taget ved 25 kV og 117,4  $\mu\text{A}$ .

B) Lobat Dauphiné tvillinge grænse (indtegnet på overlay). Billedet er 66,2x52,9  $\mu\text{m}$  og er taget ved 25 kV og 79,3  $\mu\text{A}$ .

C) Lobat Dauphiné tvillinge grænse (indtegnet på overlay). Billedet er 89,1x71,3  $\mu\text{m}$  og er taget ved 25 kV, 140,2  $\mu\text{A}$ .

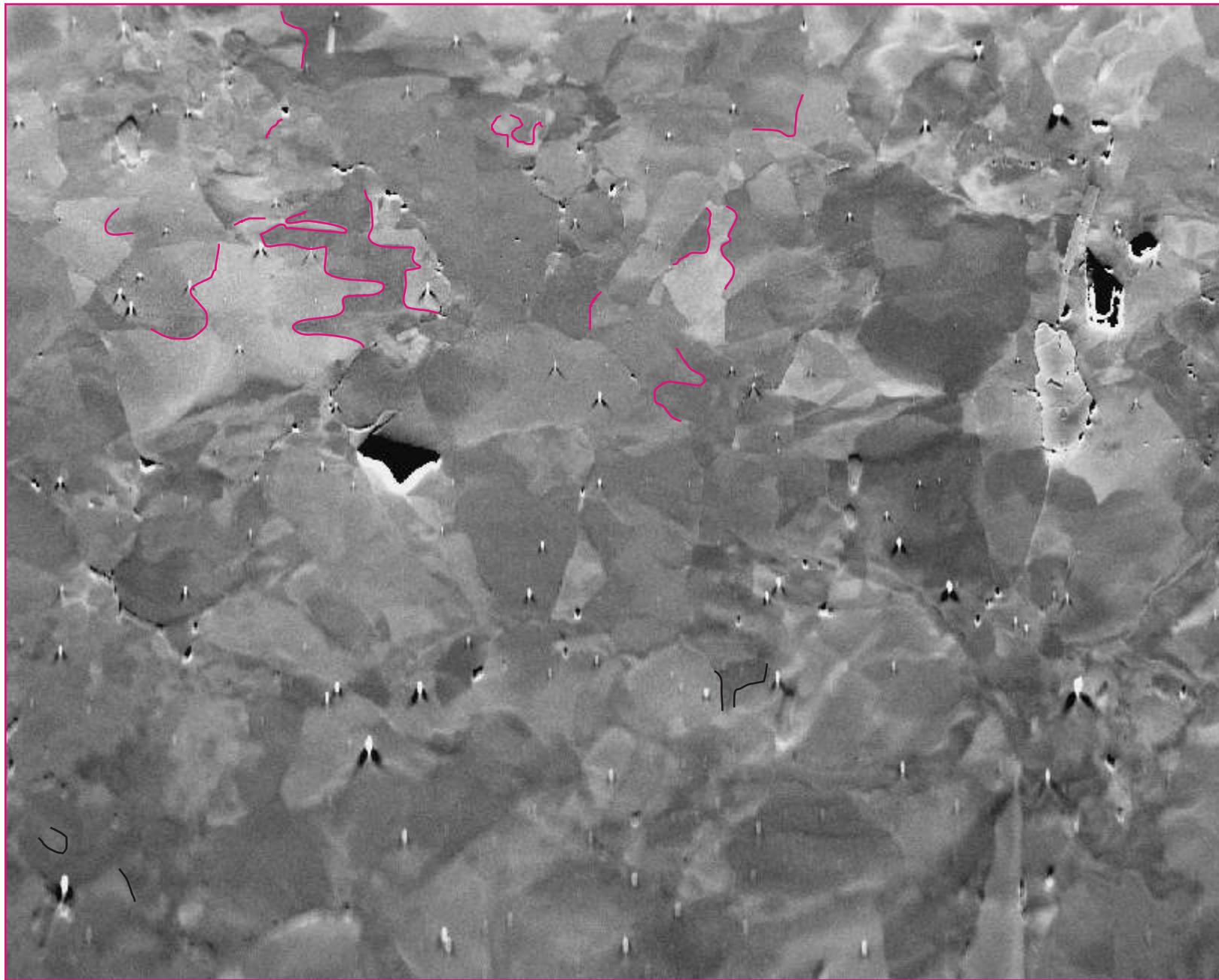
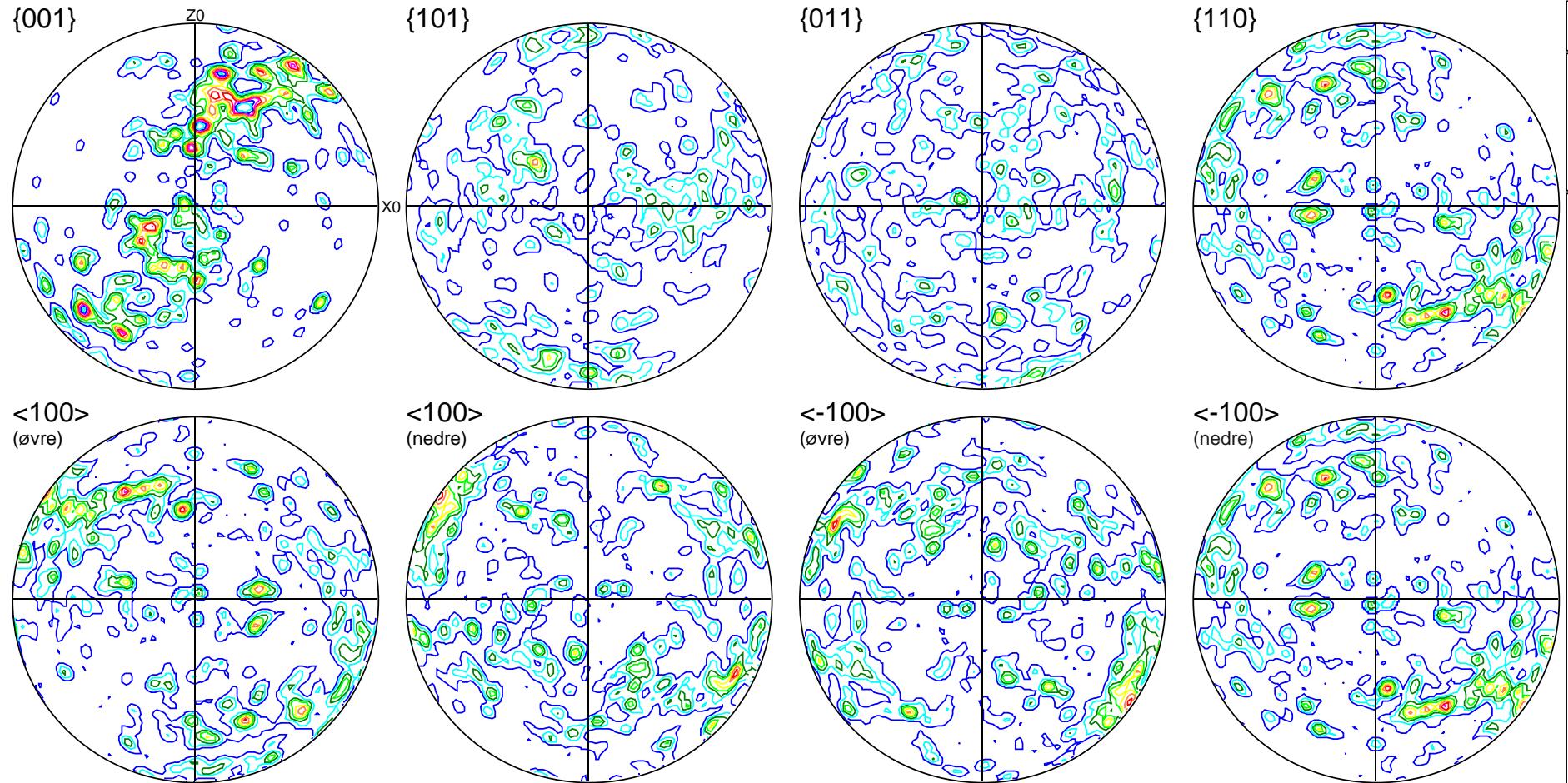


Planche 4.7.1

FSE kontrast billede fra SEM.  
Taget med tilted prøve,  
hvilket bevirker at den aller  
øverste og nederste del af  
billedet er ude af fokus.  
Læg mærke til den kaotisk  
udeseende mikrostuktur og  
de sorte riller, der markerer  
korngrænser. Overlay  
mekerer lobate Dauphiné  
tvillinge grænser. Der blev  
observeret flere Dauphiné  
tvillinge grænser via EBSD,  
men kun dem der ses i FSE  
kontrasten er indtegnet.  
Billedets dimension er  
 $808,1 \times 646,5 \mu\text{m}$  og det er  
taget ved 25 kV, 113,7  $\mu\text{A}$ .

Sa spor

X1 +



### Planche 4.8.1

Polfigurer for c-akser, positive og negative romber, 110 planet og +-<a>. Polfigurerne er konstrueret med CHANNEL 4.2 Mambo med en halvbredde værdi på 5 grader.

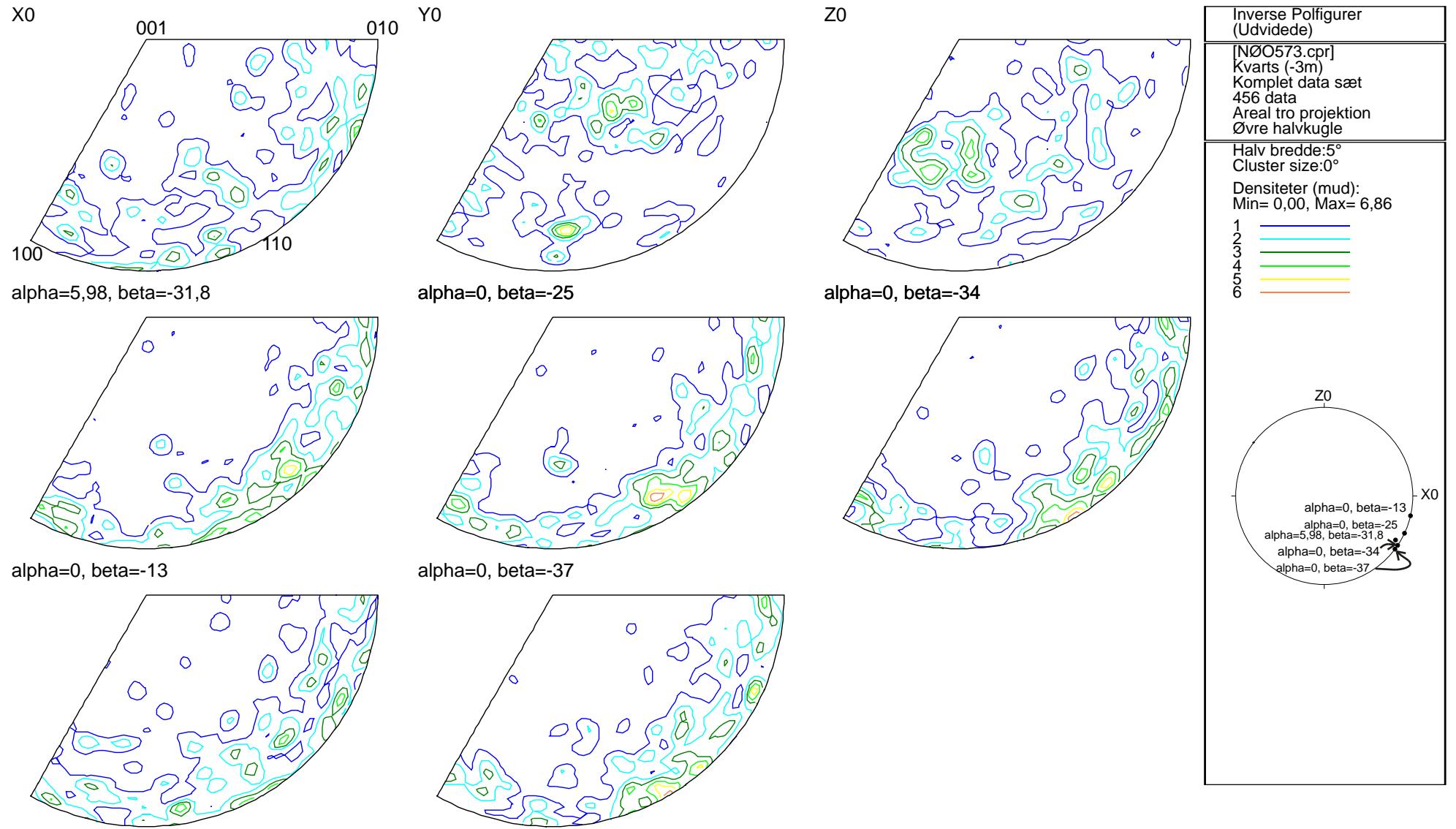
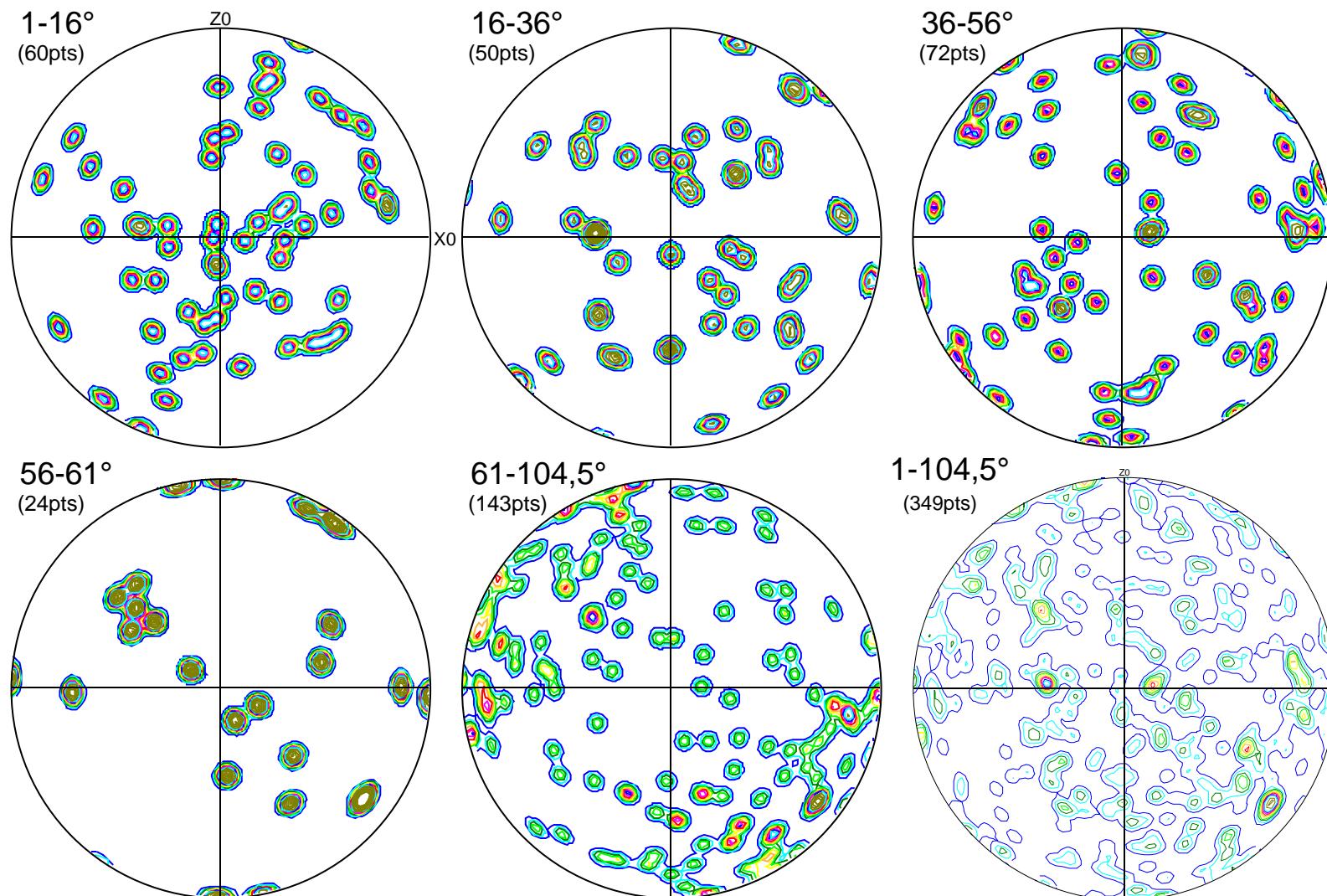
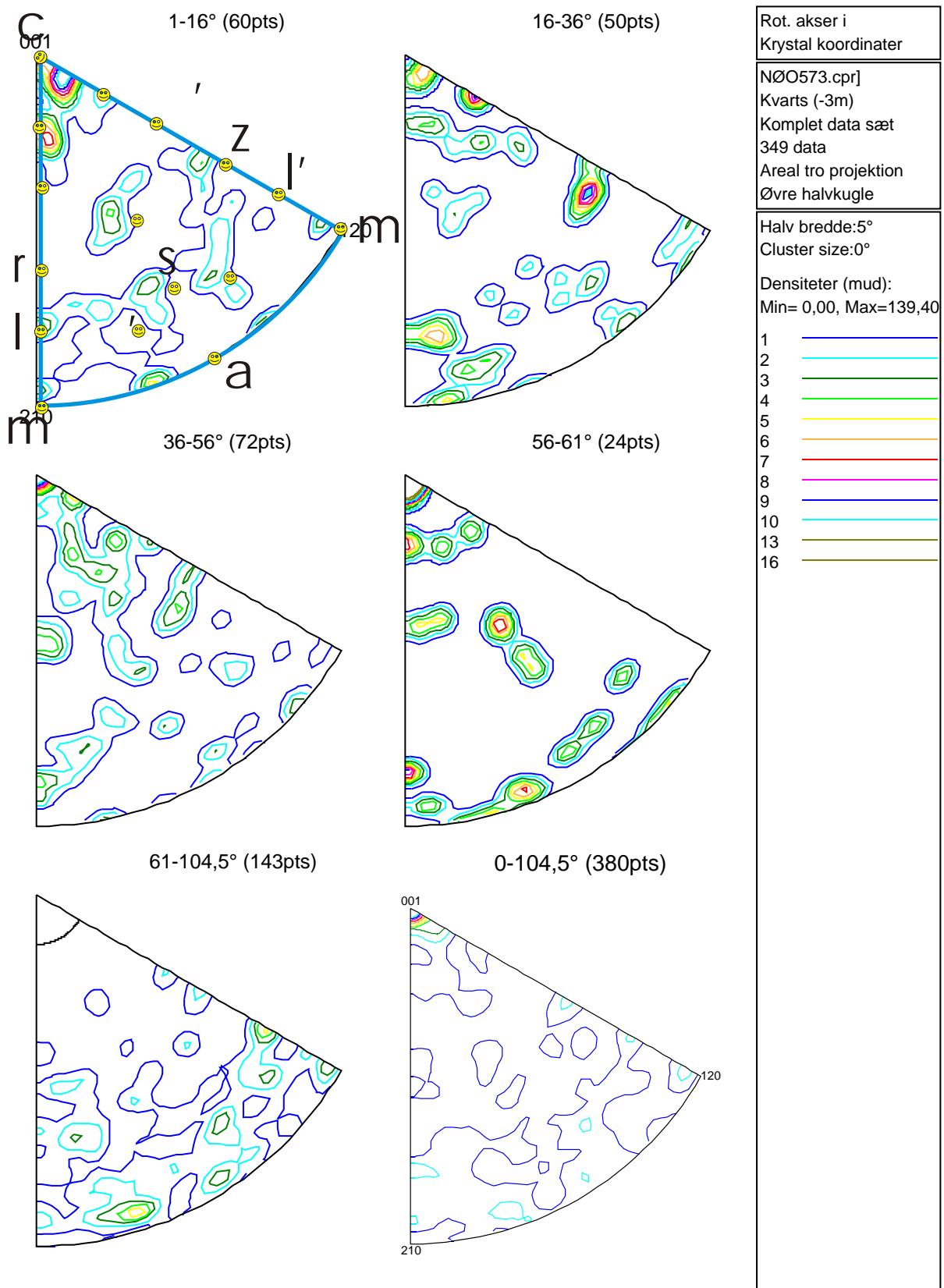


Planche 4.8.2  
Inverse polfigurer for en række relevante prøve retninger og akserne for CS0



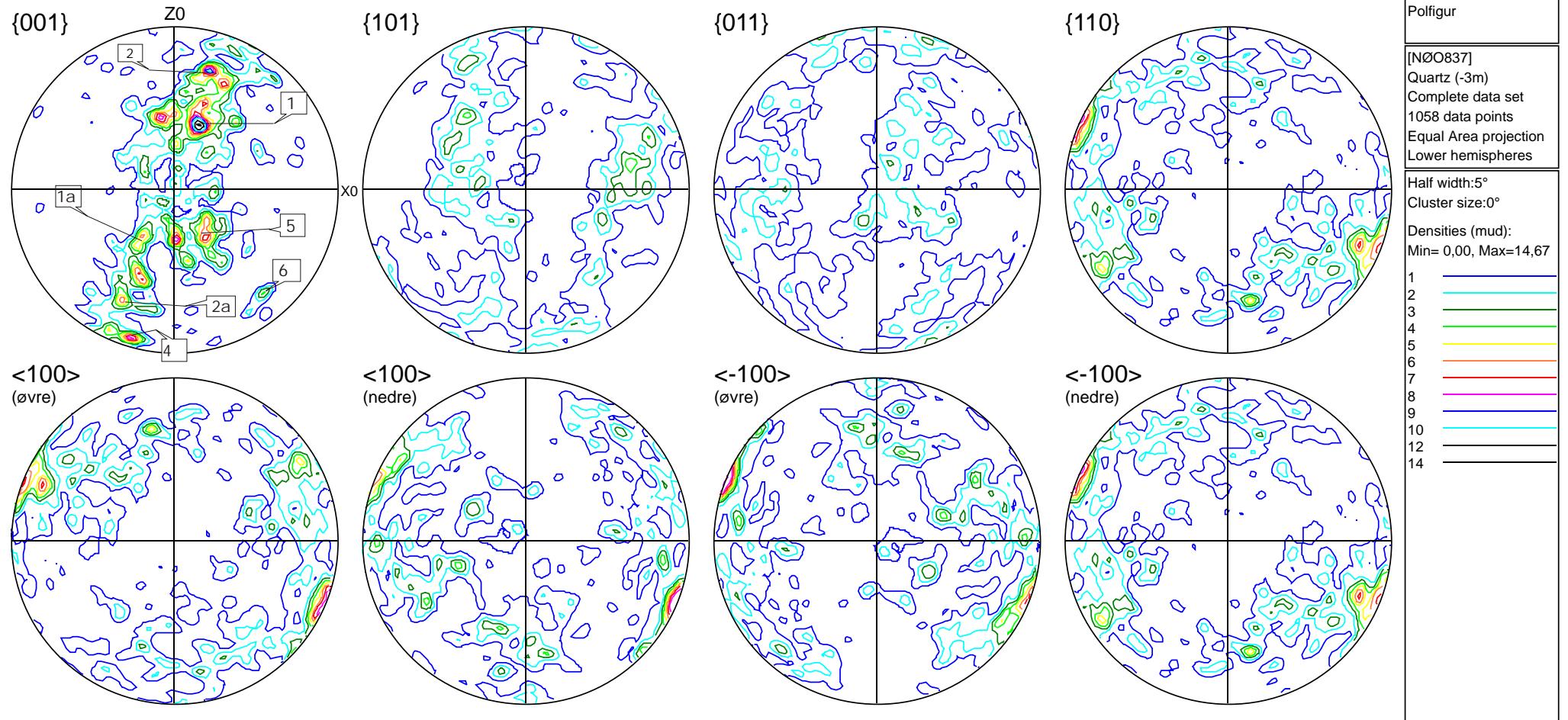
Rot. Akser i CS0 koordinater	
[NØO573.cpr]	
Kvarts (-3m)	
Komplet data sæt	
349 data	
Areal tro projektion	
Nedre halvkugle	
Halv bredde: 5°	
Cluster size: 0°	
Densiteter (mud):	
Min= 0,00, Max= 81,64	
1	—
2	—
3	—
4	—
5	—
6	—
7	—
8	—
9	—
10	—
13	—
16	—
19	—
22	—
25	—
28	—
31	—
34	—
37	—
40	—
43	—
46	—

Planche 4.8.3  
Rotations akser for NØO573 i CS0. Plot foretaget for en række relevante vinkler v.h.a. CHANNEL 4.2



#### Planche 4.8.4

Rotations akser plottet i krystalkoordinater for relevante misorienterings vinkler for prøve NØO573. Samme vinkel intervaller som på planche 4.8.3. Fremstillet med CHANNEL 4.2



### Planche 4.9.1

Polfigurer for c-akser, positive og negative romber, 110 planet, og +- <a>. Polfigurerne er konstrueret med CHANNEL 4.2 Mambo og kontureret med en halvbredde værdi på 5 grader.

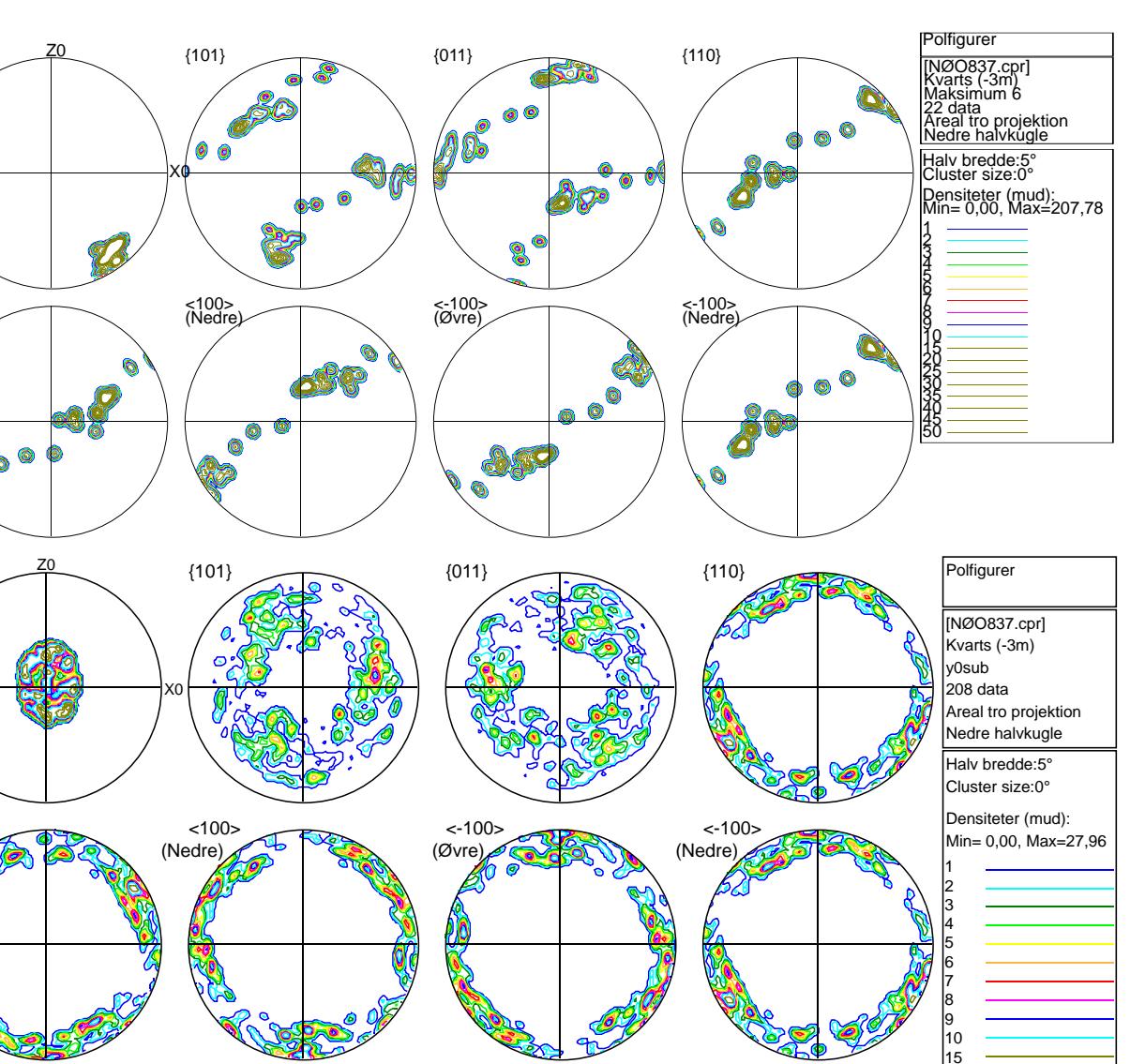
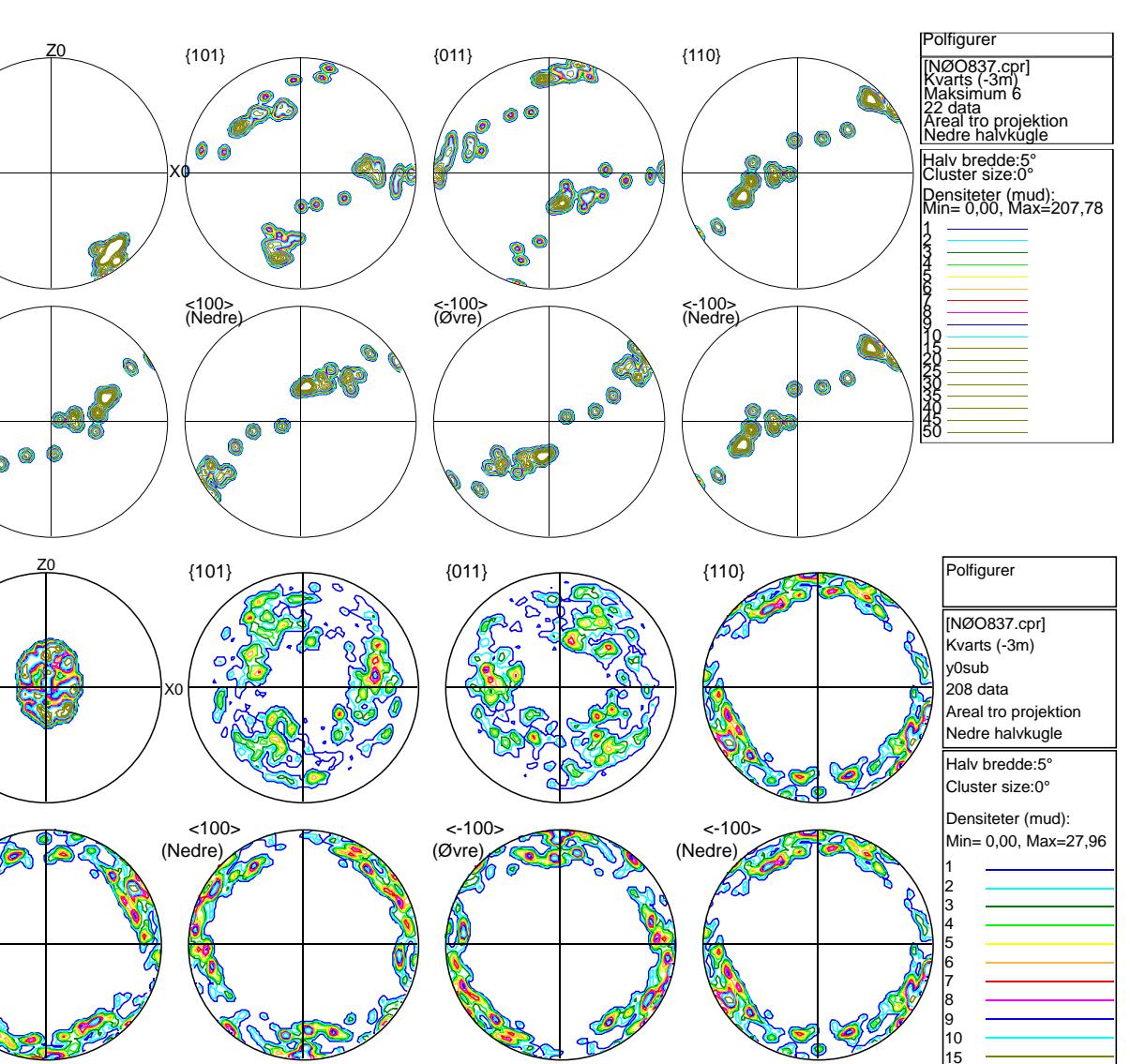
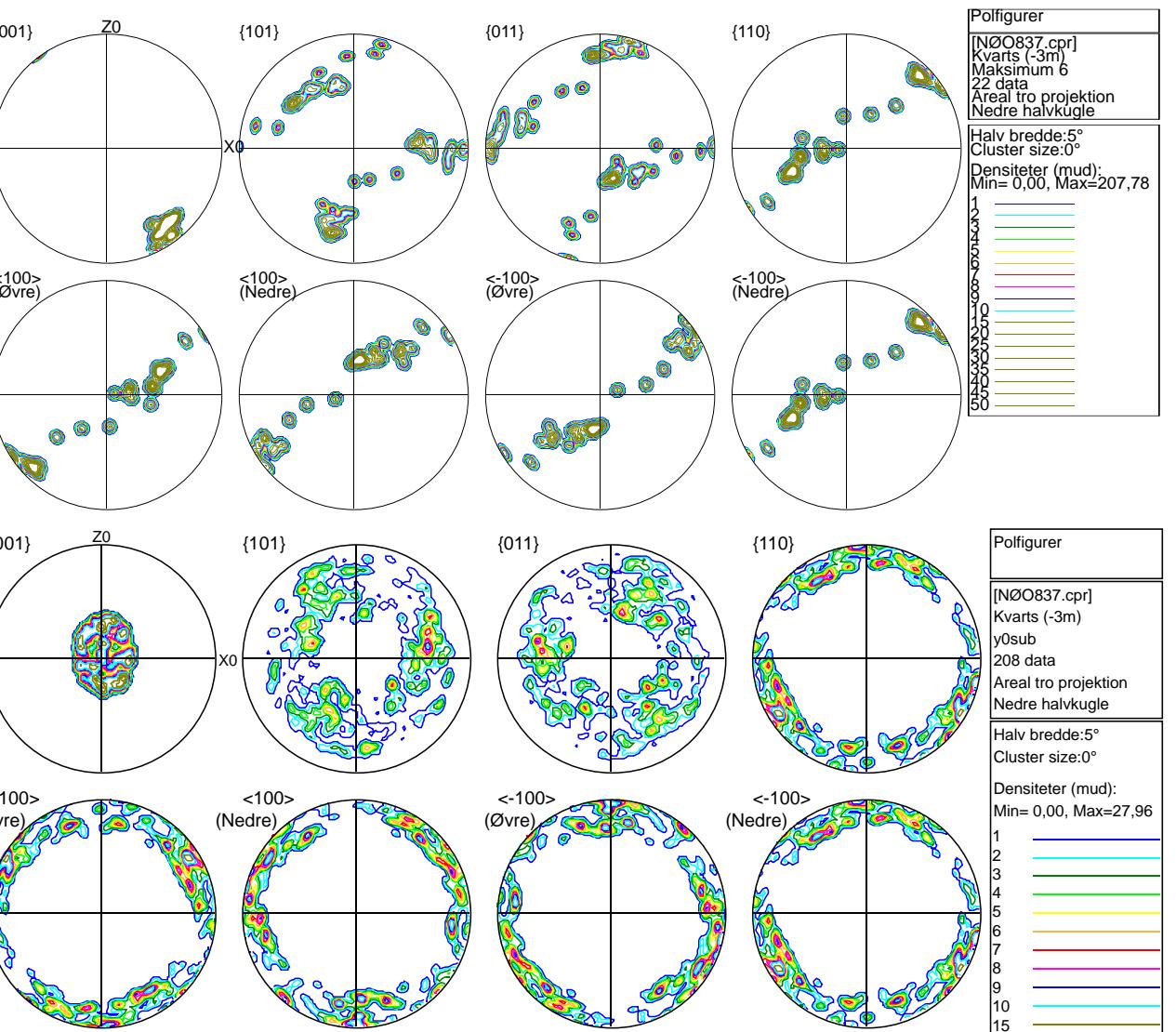
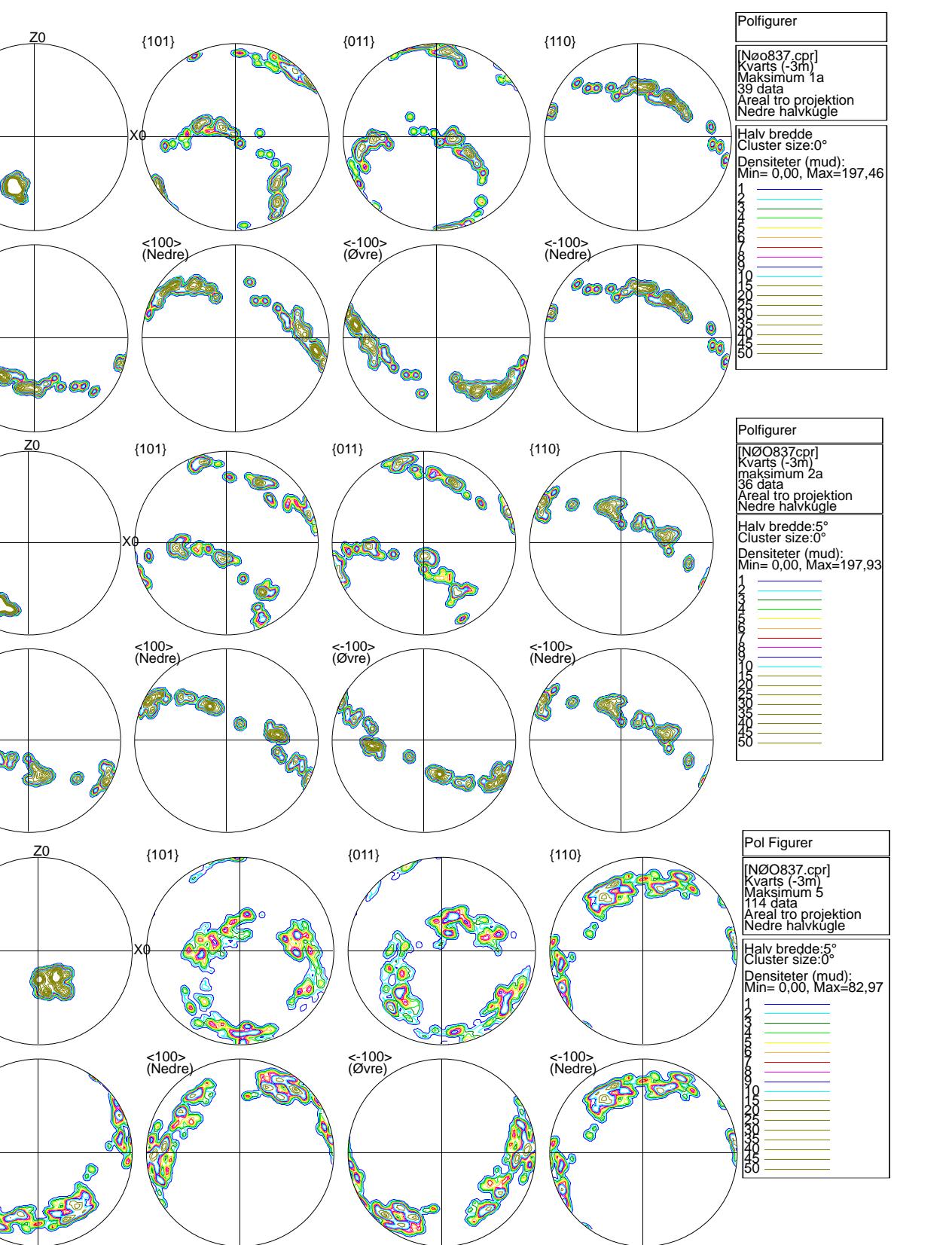
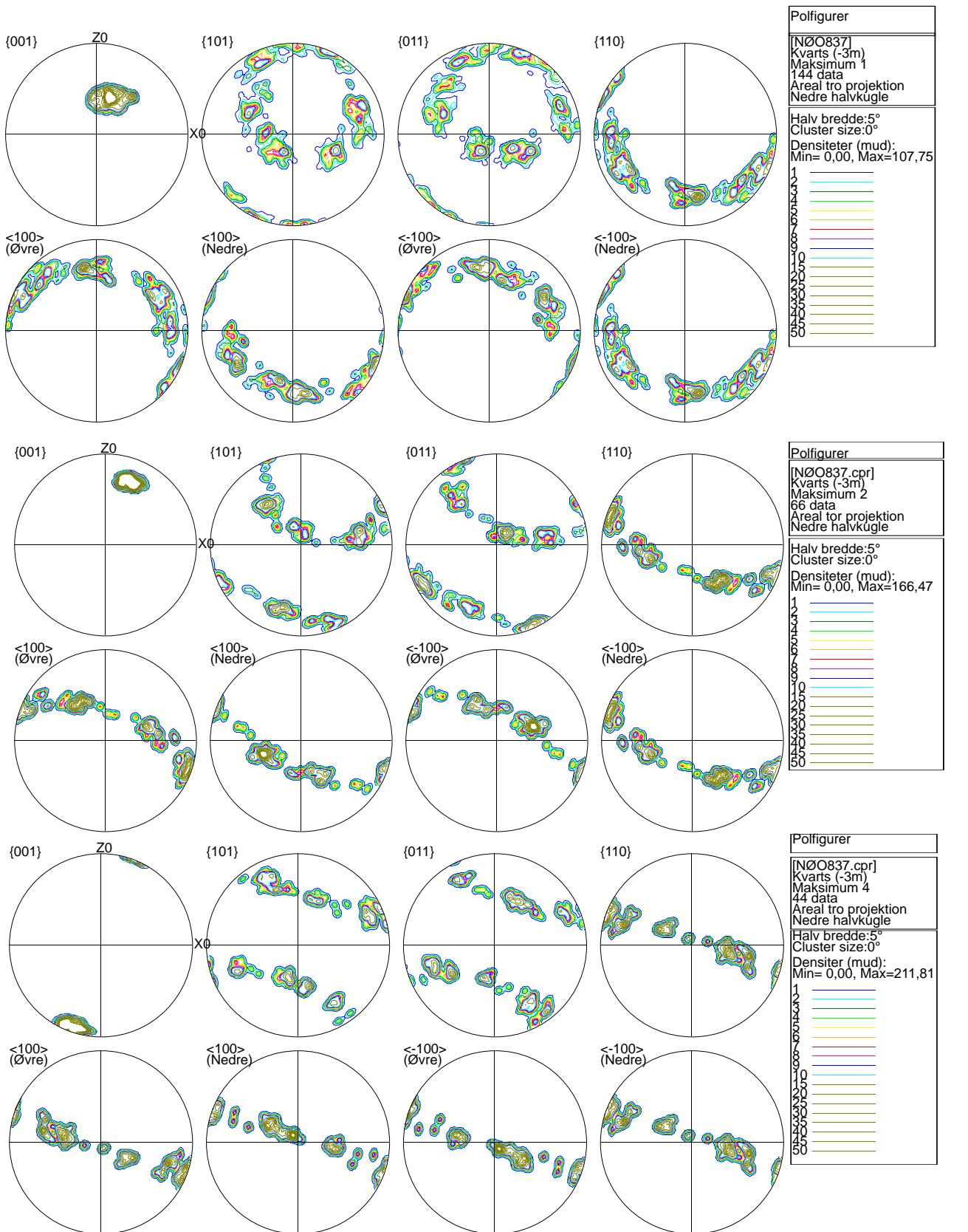
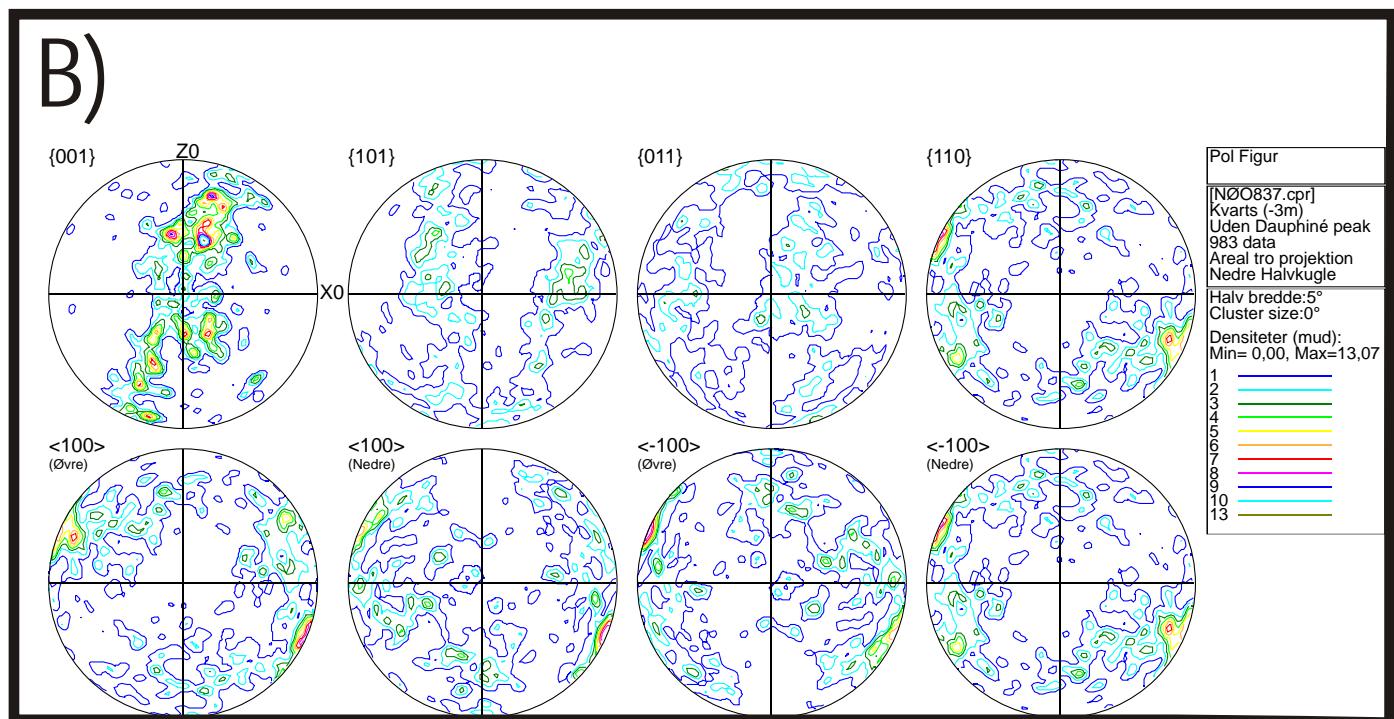
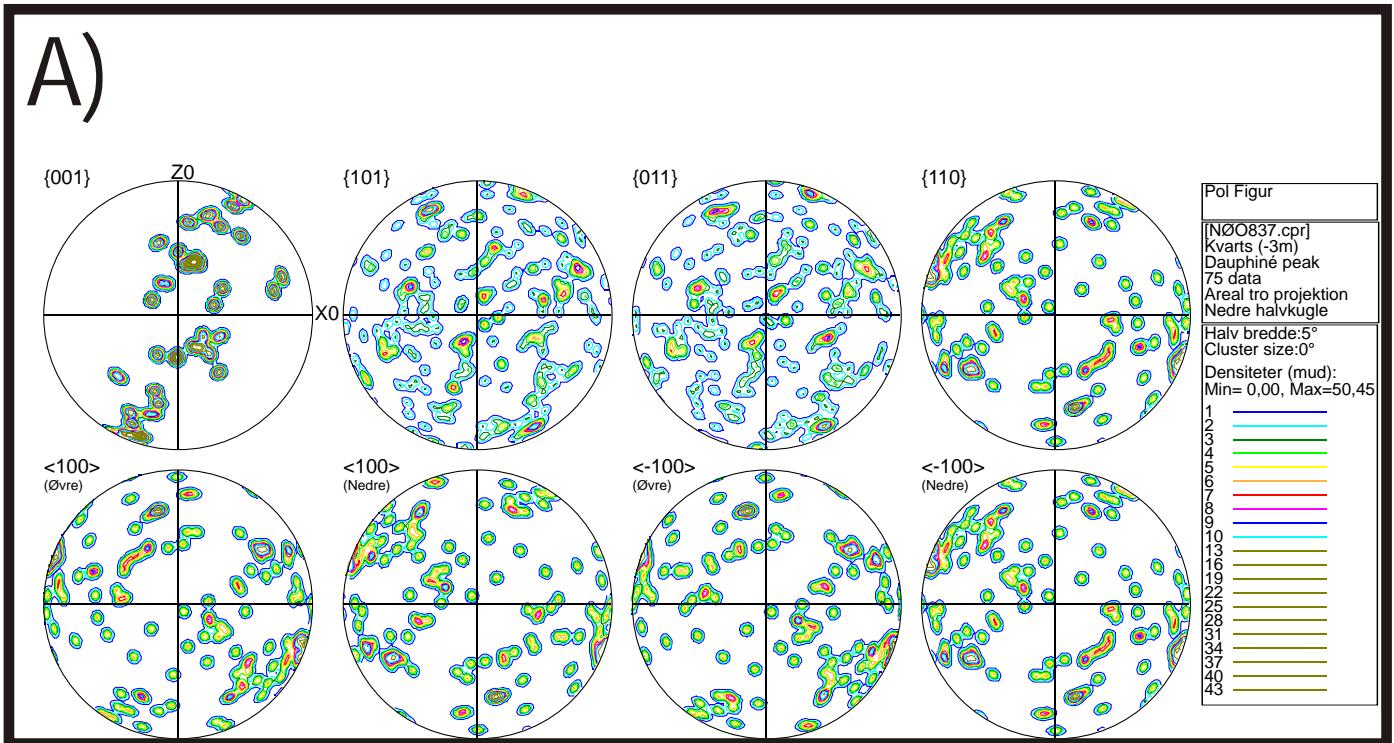


Planche 4.9.2  
Polfigurer for de 7 maksima og Y0 subsettet.  
Konstrueret v.h.a. CHANNEL 4.2



### Planche 4.9.3

Effekten af eksistensen af Dauphiné tvillinger i kvarts korn.

Polfigurer konstrueret v.h.a CHANNEL 4.2

A) Polfigurer for korn inden for Dauphiné peak og med {001} som nærmeste misorienterings akse (maks indices {111})

B) Alle andre korn end A)

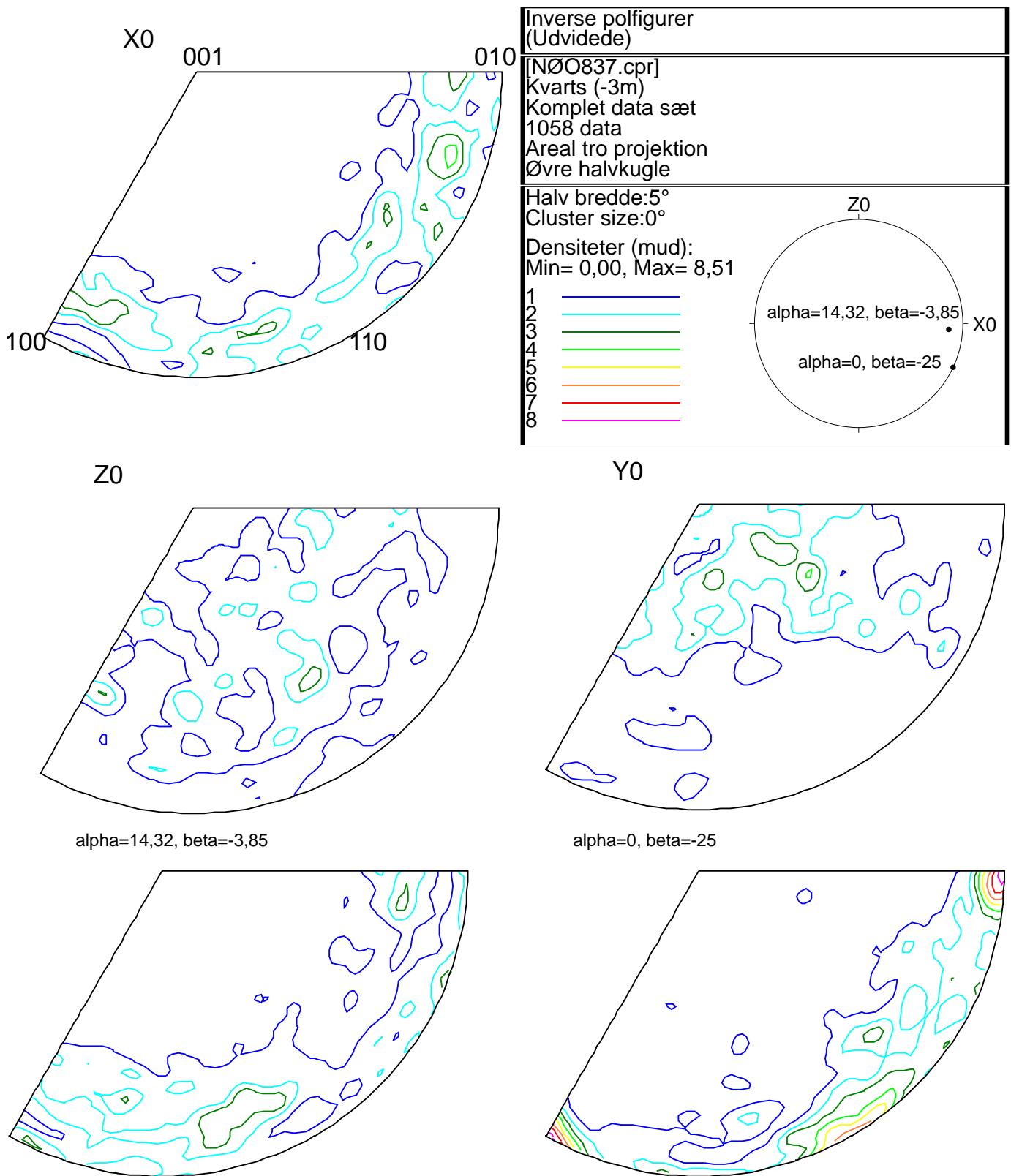


Planche 4.9.4

Inverse polfigurer for NØO837. Polakser er CS0 akser og akser udvalgt efter den asymmetriske c-akse girdle, rhombe og a-akse fordelingerne. Alpha 14,32, beta -3,85 er egenvektor v3, svarende til pol til den bedste storcirkel for en ideel girdle, mens alpha 0, beta -25 er a-akse maksima og visuelt vurderet pol til den ikke ideelle c-akse girdle

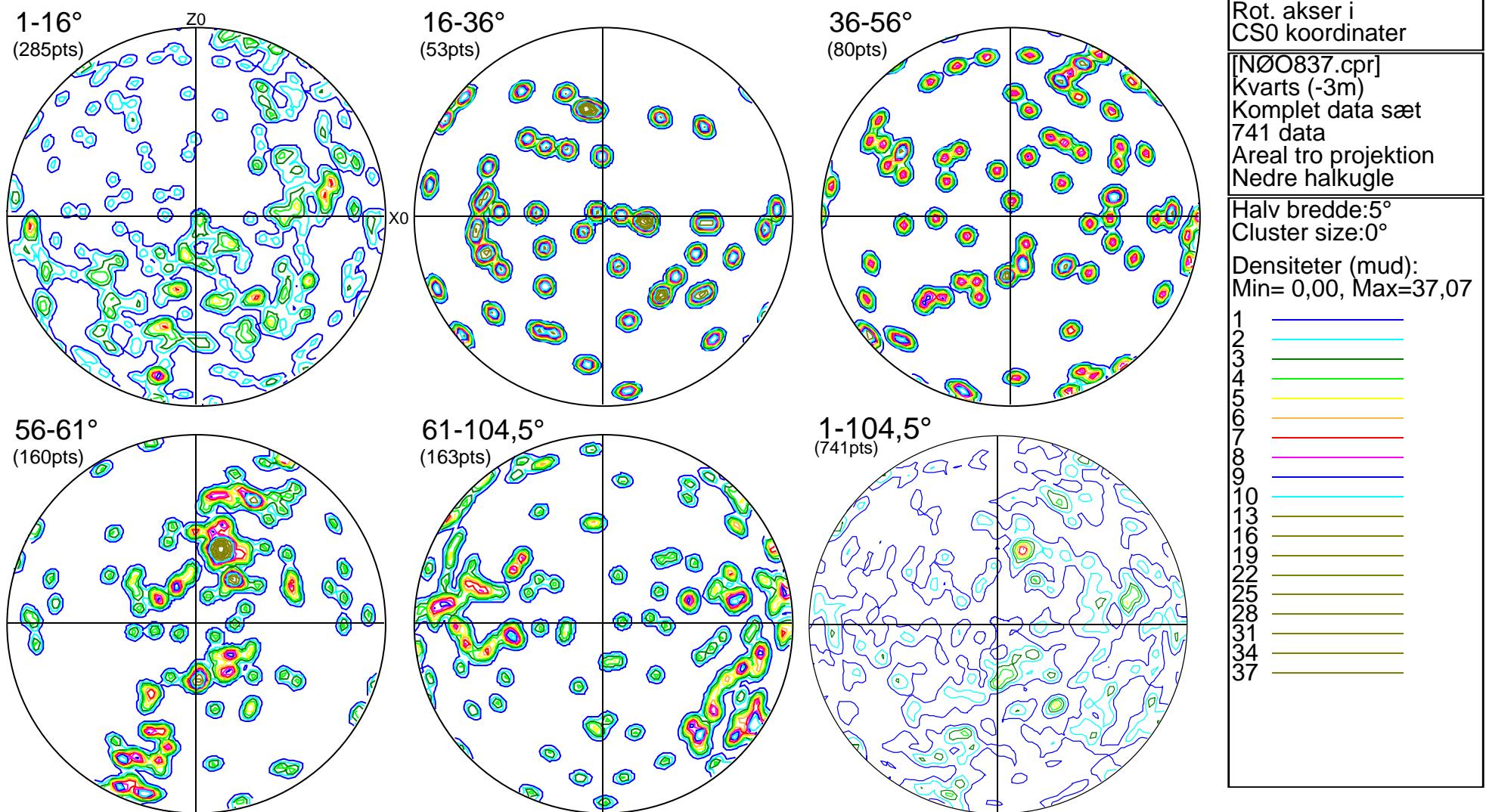


Planche 4.9.5  
Rotations akser i CS0. Relevante vinkel intervaller udvalgt og plottet v.h.a. CHANNEL 4.2

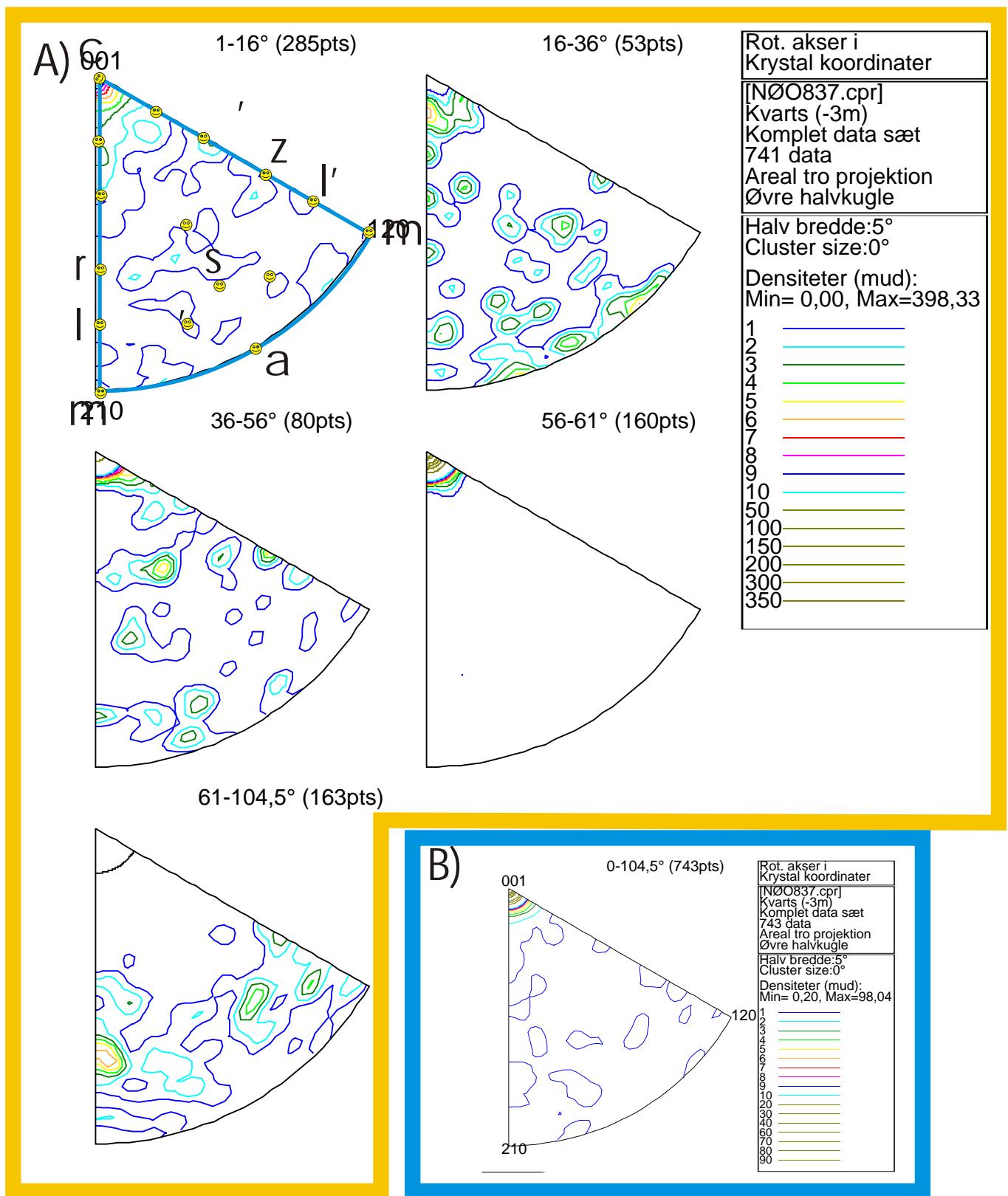
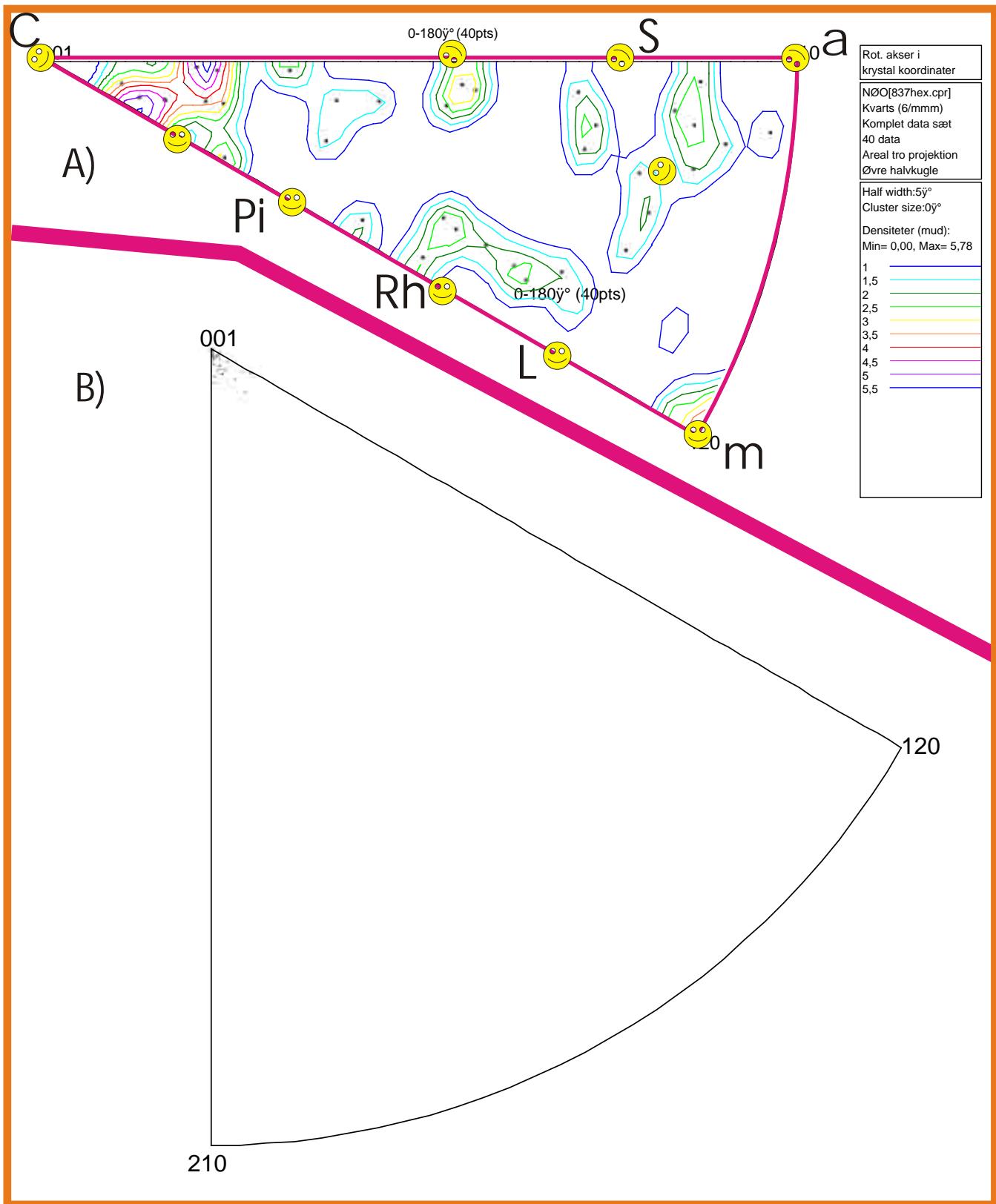


Planche 4.9.6  
Rotations akser for NØO837 plottet i krystal koordinater v.h.a. CHANNEL 4.2 . Relevante intervaller er udvalgt



#### Planche 4.9.7

- A) Roations akser for nabokorn inden for Dauphiné toppen og med misorienterings akse tættest på {001} plottet i den heksagonale rumgruppe 6mmm således at Dauphiné tvillinge operationen fjernes og tvillingernes viedere skæbne afsløres
- B) Samme akser som i A) plottet i den rigtige rumgruppe for sammenligning.

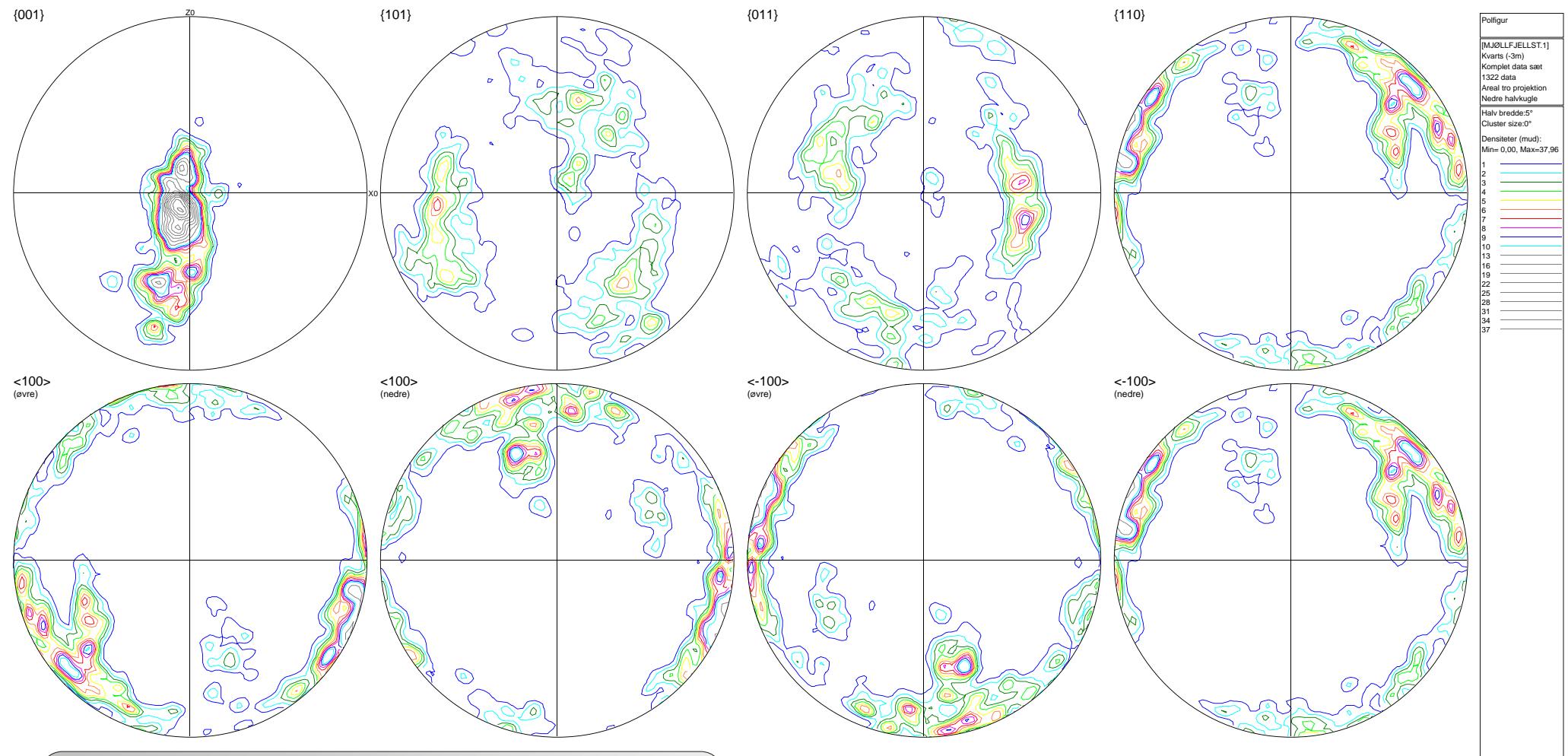


Planche 4.10.1

Polfigurer for c-akser, positive og negative romber, 110 planet og +-<a>. Konturering og plotning er foretaget med CHANNEL 4.2 Mambo med en halv bredde værdi på 5 grader. Læg mærke til at afstanden mellem de grå intervalle er 3, mens den er 1 mellem de farvede. D.v.s {001} YO maksimaet er støjlere end figuren giver udtryk for

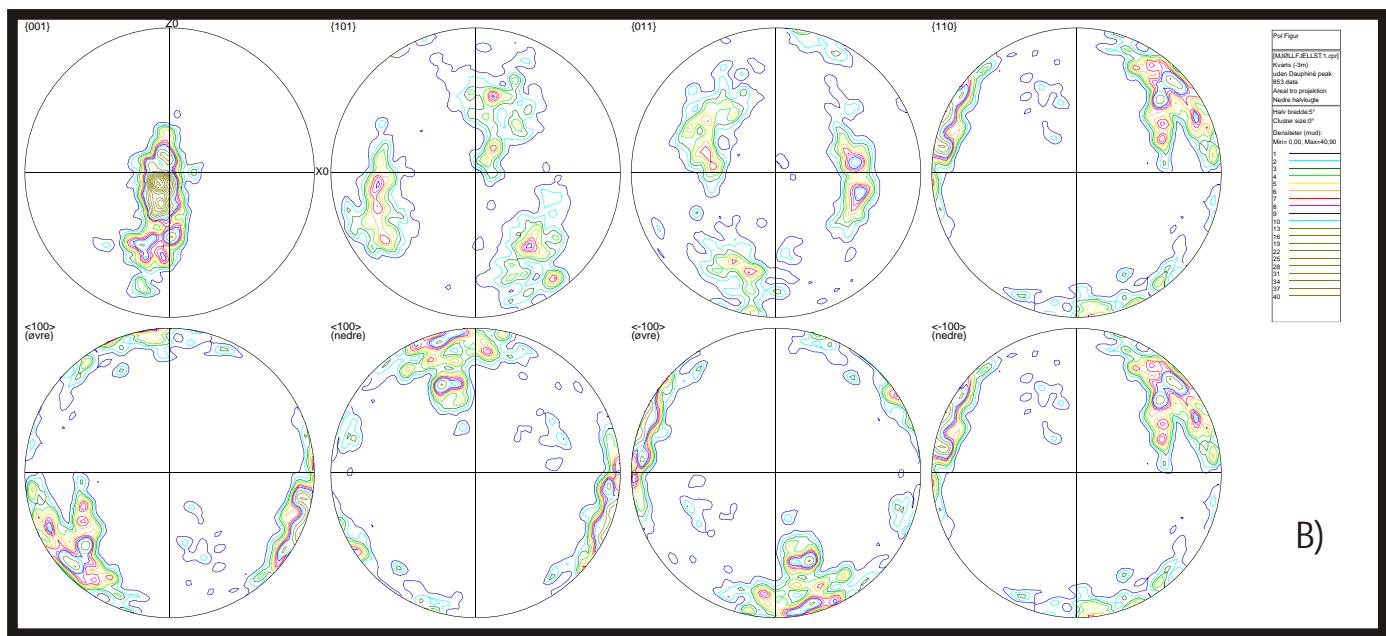
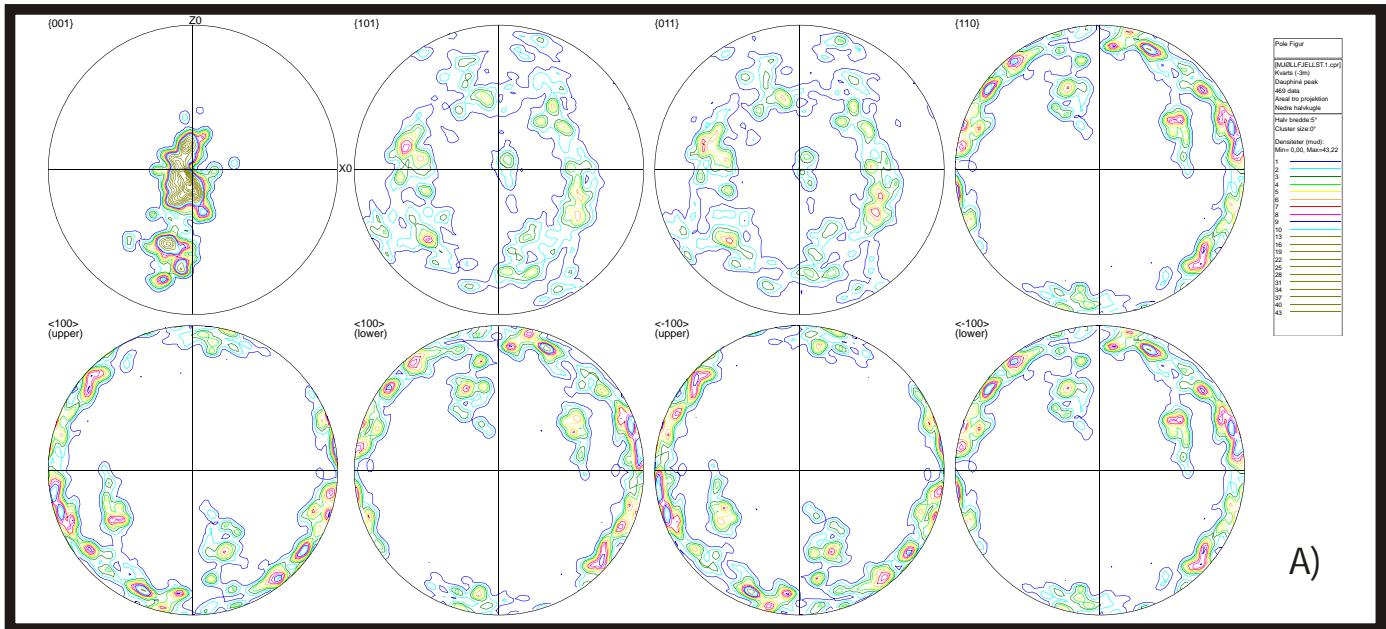
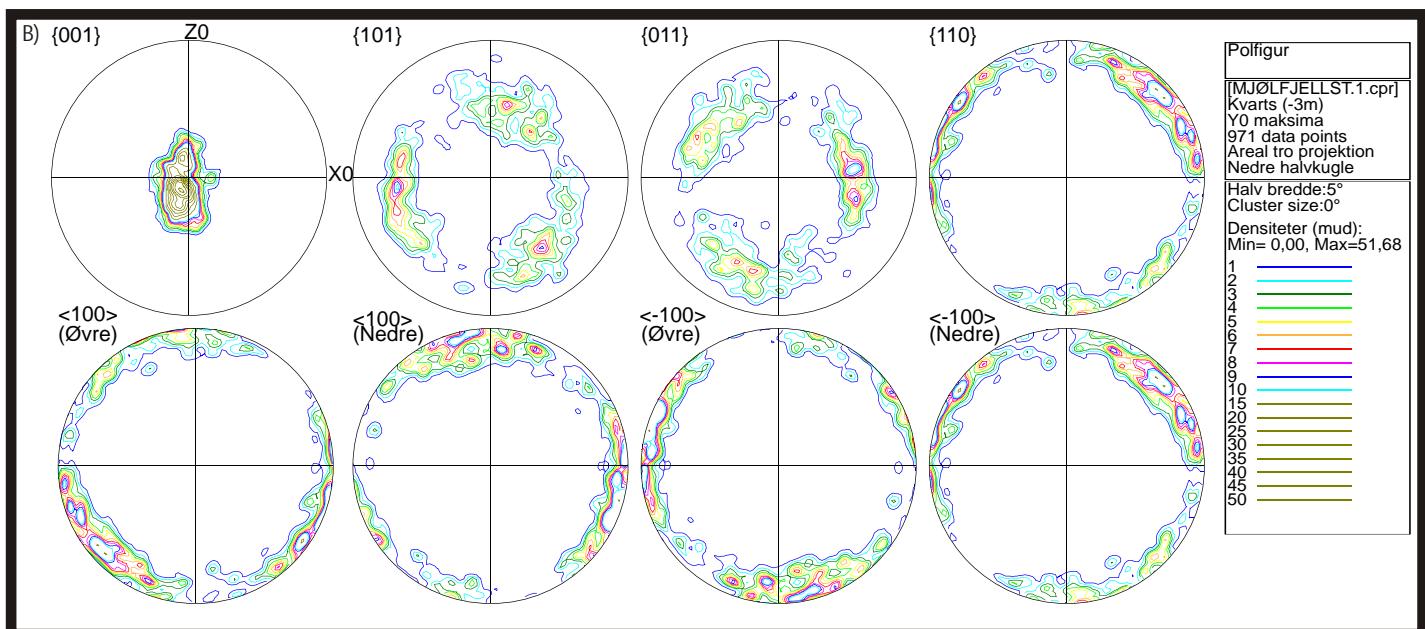
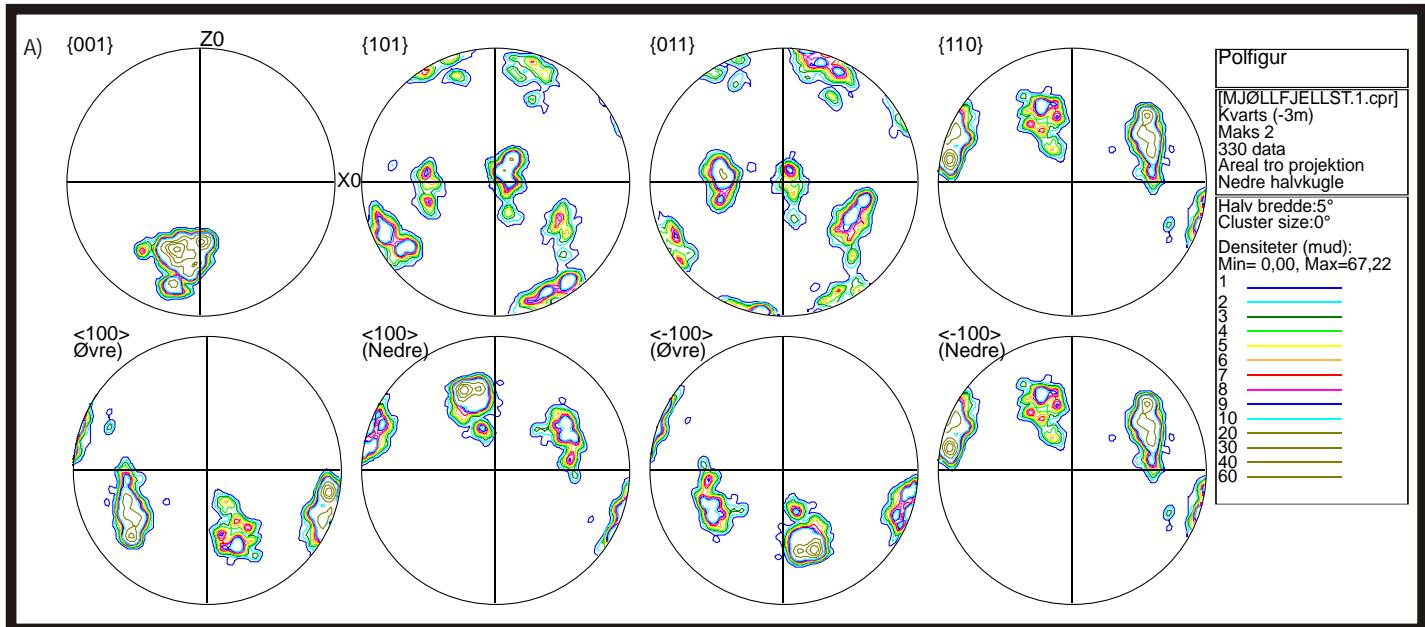


Planche 4.10.2

Polfigurer for korn inden for Dauphiné toppen og med {001} som Rotations akse A) og for øvrige korn B). Polfigurerne er lavet i CHANNEL 4.2 og udvælgelsen af Dauphiné top kornene er sket i Microsoft Exel , da udvælgelsen ikke var mulig i CHANNEL 4.2



### Planche 4.10.3

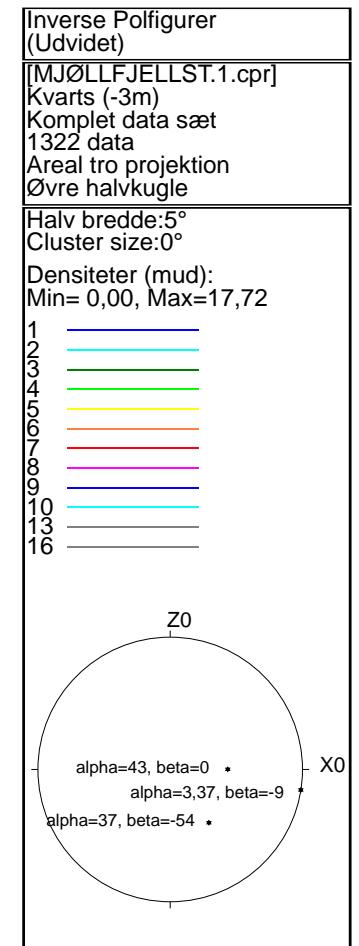
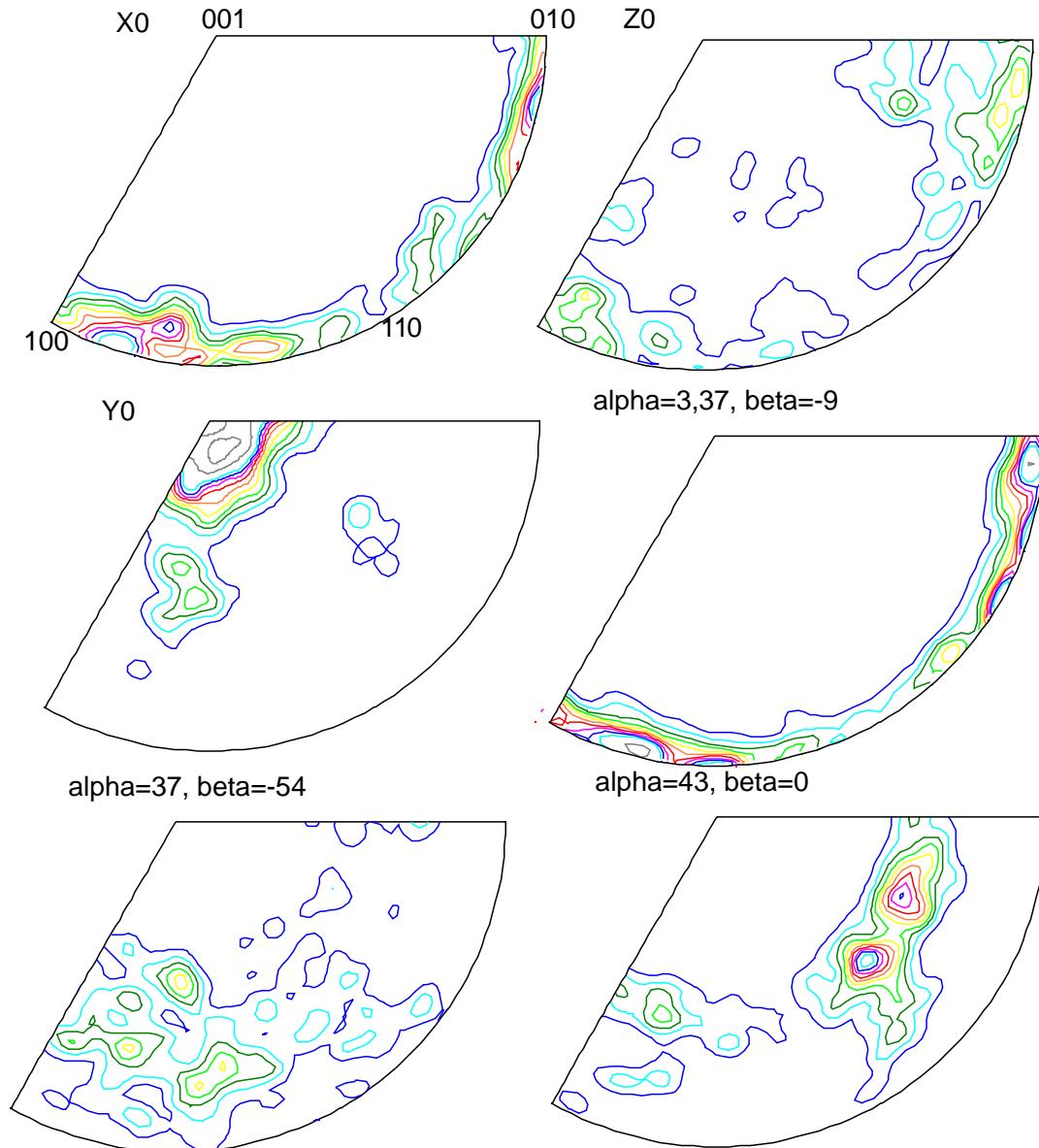
Polfigurer for submaksima i MJØLLFJELLST.1.

A) C-akse maksima mellem primitiv storcirkel og Y0

B) C-akse maksima nær Y0

### Planche 4.10.4

Inverse polfigurer for MJØLLFJELLST.1 plottet i CHANNEL 4.2. CS0 akser og udvalgte prøve retninger. Alpha -3,37, beta -9 er egenvektor  $V_3$  til c-akse girdlen. Alpha -37, beta -54 viser r-rhombe maksima og er valgt på dette sted i stedet for den symmetrisk ækvivalente tættere på Z0 for at undgå ineterferens fra maksima af andre krystallografiske retninger



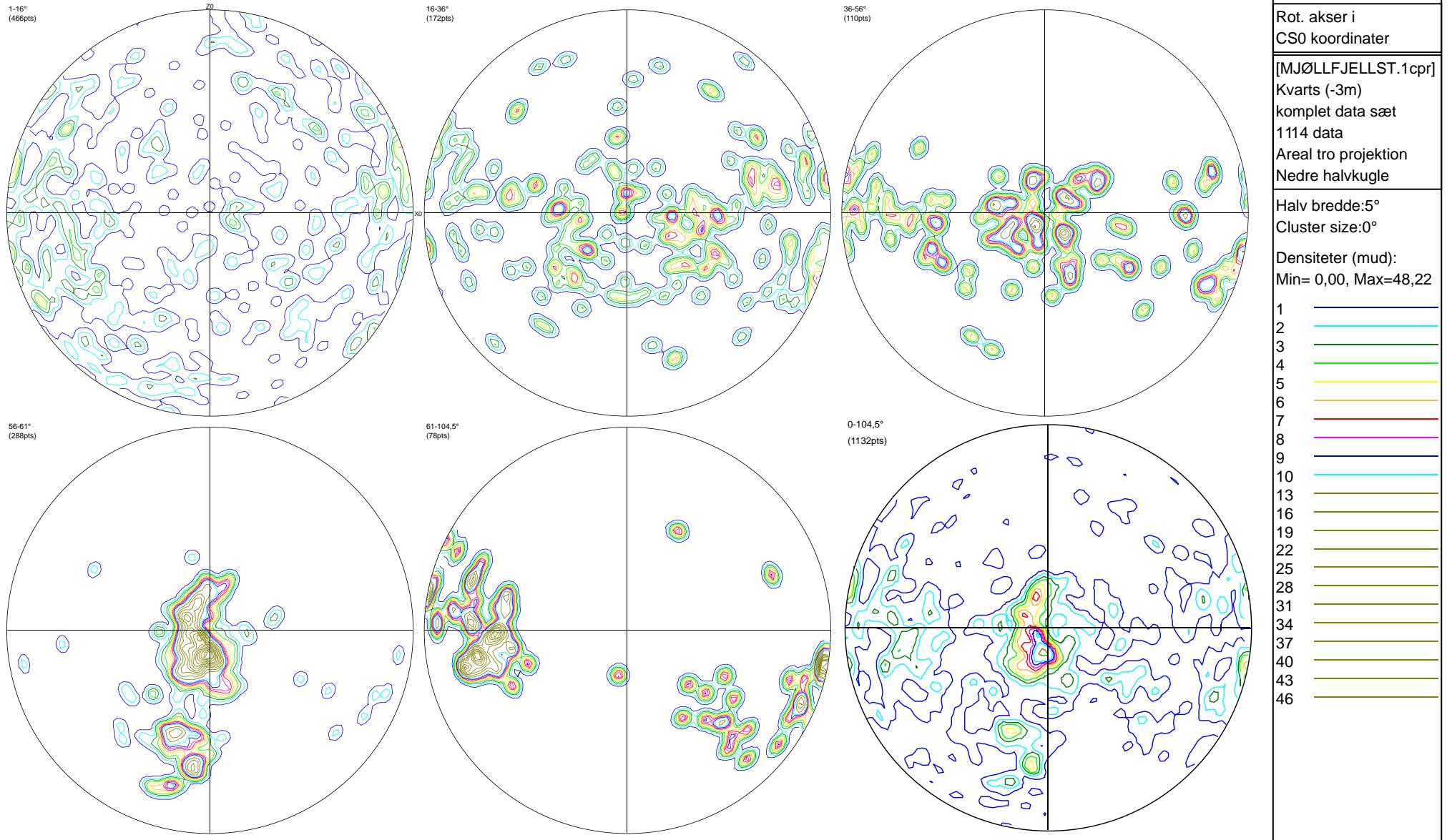


Planche 4.10.5  
Rotations akser for MJØLLFJELLST.1 plottet i prøve CS0. Relevante misorienterings vinkelintervaller er udvalgt. Fremstillet v.h.a. CHANNEL 4.2

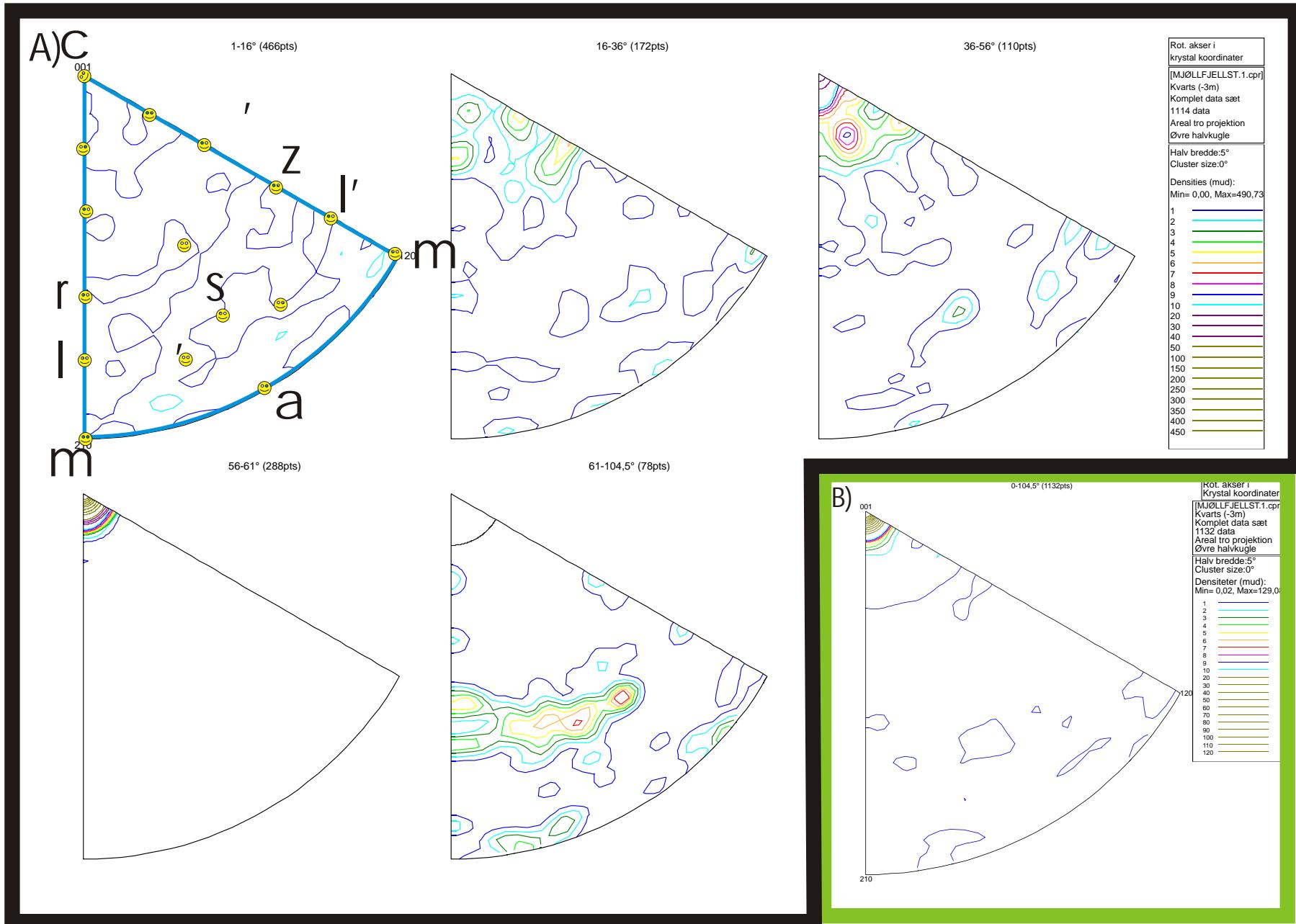
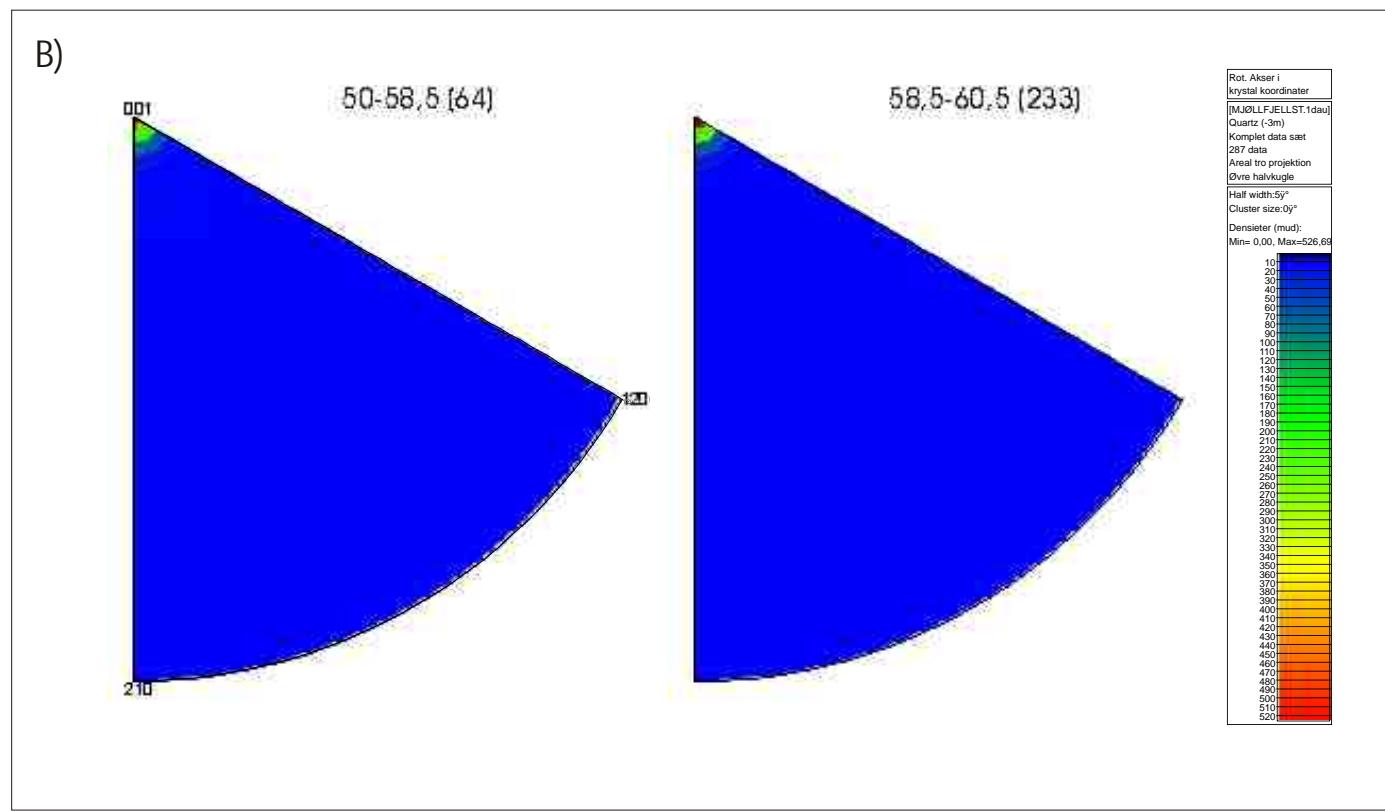
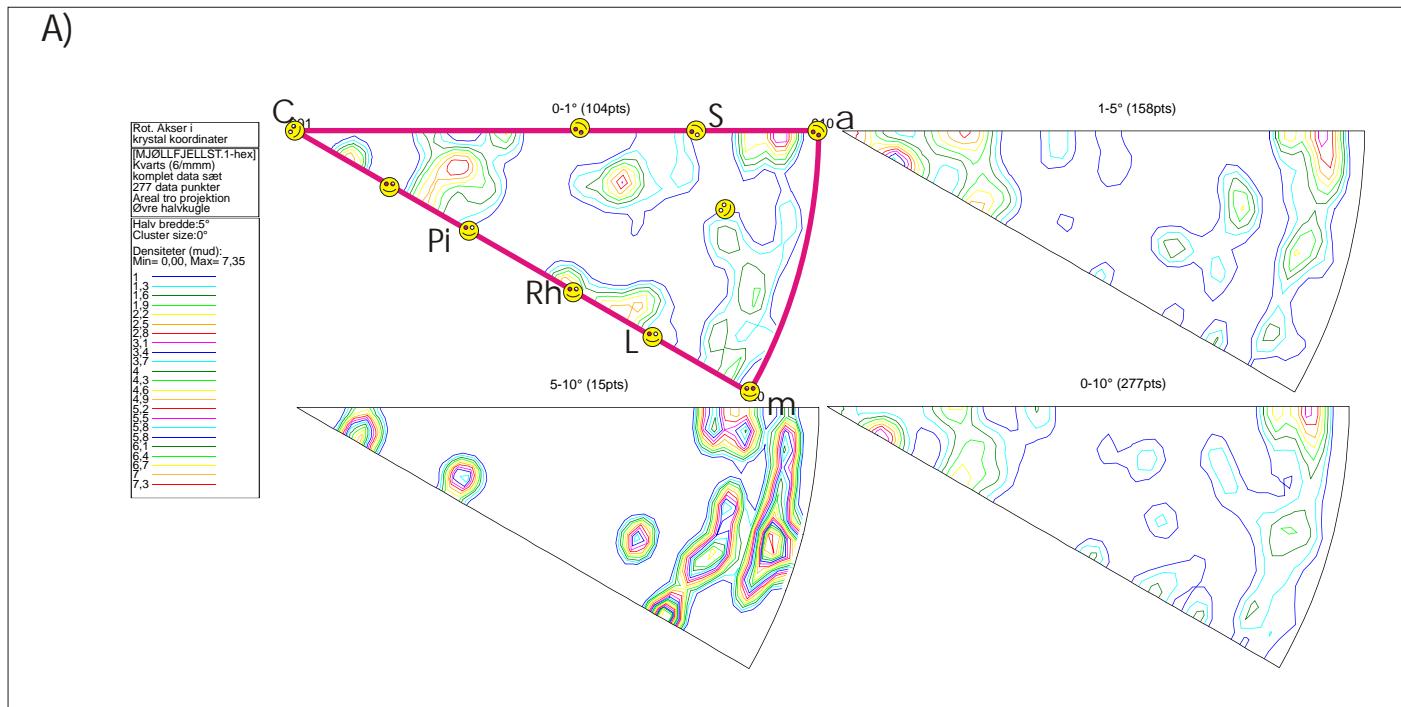


Planche 4.10.6

Rotations akser i krystal koordinater for MJØLLFJELLST.1 for relevante vinkel intervaller A) og alle akser B). Læg mærke til at konturings intervallerne ikke er de samme for A) og B). Plottet er foretaget v.h.a. CHANNEL 4.2 Mambo



#### Planche 4.10.7

A) Rotations akser akser for nabokorn inden for spredningen på Dauphiné toppen (50-60,5) og med [001] som nærmeste rotations akse, vurderet ud fra max indices 111. Data er plottet med heksagonal symmetri, hvorved Dauphiné tvillinge operationen fjernes. 10 punkter ler roteret mere end 10 grader og er ikke medtaget i plottet

B) Plot af det samme i trigonal oplosning til sammenligning. Sorte prikker er scatterplot, der viser at der er en svag spredning på data som er størst for intervallet længst fra den ideelle Dauphiné tvilling

## **Appendiks 3.2 Opmåling af håndstykke og prøvekoordinatsystemer**

- 1: Først monteres prøven ved hjælp af en klump modellervoks på et stativ (prøveholderen). Stativet er monteret på en kvadratisk messingsokkel og har en aksel, hvor omkring prøven kan drejes og vippes.
- 2: Et andet stativ (måleren) indstilles på prøvens strygning og hældning, idet det har to roterbare akser; en lodret der viser strygning eller azimut og en vandret der kan måle strygning eller dip. Der kan monteres to målerværktøjer; et sigte instrument og et roterbart plan. Det roterbare plan bruges for det meste til måling af den geografiske strygning / hældning. Stativet er ligesom prøveholderen monteret på en kvadratisk messingklods.
- 3: Målerens og prøveholderens messingklodser stilles tæt op mod hinanden og deres indbyrdes orientering opretholdes resten af opmålingen.
- 4: Prøven roteres og vippes nu i prøveholderen således at den på måleren indstillede hældning og strygning passer.
- 5: Herefter måles lineation, foliation, prøveoverflade, referencelinje og hvad der ellers måtte ønskes. Det er vigtigt at notere sig hvilken geografisk retning planer og linjer hælder mod og det bør også noteres om planer er en overside eller underside. Ligeledes skal det noteres hvordan prøveoverfladen på prøven er valgt, dvs. om det er ind mod håndstykket eller ud fra håndstykket.

Orienteringen mellem referencelinje på SEM prøven måles ved hjælp af optisk mikroskop.

# Bilag 4a

EIGENVECTORS (001neo573)	EIGENVECTORS (101neo573)	EIGENVECTORS (011neo573)																																																																																																																																																																																																	
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V3= -0.065 0.967 0.247	333.982 62.865																																																																																																																																																																																																		
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Lambda1=549.625 S1= 0.519	Lambda1=1083.80 S1= 0.345	Lambda1=1094.09 S1= 0.345																																																																																																																																																																																																	
Lambda2=400.398 S2= 0.378	Lambda2=1055.60 S2= 0.336	Lambda2=1056.74 S2= 0.336																																																																																																																																																																																																	
Lambda3=107.977 S3= 0.102	Lambda3=1004.58 S3= 0.320	Lambda3=1013.16 S3= 0.319																																																																																																																																																																																																	
S1/S2= 1.373	S1/S2= 1.027	S1/S2= 1.026																																																																																																																																																																																																	
S2/S3= 3.708	S2/S3= 1.051	S2/S3= 1.053																																																																																																																																																																																																	
S1/S3= 5.090	S1/S3= 1.079	S1/S3= 1.080																																																																																																																																																																																																	
Ln(S1/S2)= 0.317 Ln(S2/S3)=	Ln(S1/S2)= 0.026 Ln(S2/S3)=	Ln(S1/S2)= 0.025 Ln(S2/S3)=																																																																																																																																																																																																	
1.311	0.050	0.052																																																																																																																																																																																																	
C= 1.627	C= 0.076	C= 0.077																																																																																																																																																																																																	
K= 0.242	K= 0.532	K= 0.491																																																																																																																																																																																																	
N=1058	N=3144	N=3174																																																																																																																																																																																																	
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0.059	8.127 15.999		99.095 3.372	V3= -0.158 0.986 0.059			99.095 3.371		EIGENVALUES	EIGENVALUES	EIGENVALUES	Lambda1=1139.61 S1= 0.862	Lambda1=1450.07 S1= 0.366	Lambda1=1450.07 S1= 0.366	Lambda2=162.903 S2= 0.123	Lambda2=1271.10 S2= 0.320	Lambda2=1271.10 S2= 0.320	Lambda3= 19.479 S3= 0.015	Lambda3=1244.82 S3= 0.314	Lambda3=1244.82 S3= 0.314	S1/S2= 6.996	S1/S2= 1.141	S1/S2= 1.141	S2/S3= 8.363	S2/S3= 1.021	S2/S3= 1.021	S1/S3= 58.506	S1/S3= 1.165	S1/S3= 1.165	Ln(S1/S2)= 1.945 Ln(S2/S3)=	Ln(S1/S2)= 0.132 Ln(S2/S3)=	Ln(S1/S2)= 0.132 Ln(S2/S3)=	2.124	0.021	0.021	C= 4.069	C= 0.153	C= 0.153	K= 0.916	K= 6.305	K= 6.305	N=1322	N=3966	N=3966	<table> <thead> <tr> <th>1</th><th>m</th><th>n</th></tr> </thead> <tbody> <tr> <td>Strike Dip</td><td></td><td></td></tr> <tr> <td>V1= -0.264 -0.099 0.959</td><td>Strike Dip</td><td></td></tr> <tr> <td>200.665 73.631</td><td>V1= -0.264 -0.099 0.959</td><td></td></tr> <tr> <td>V2= 0.952 0.136 0.276</td><td>200.665 73.631</td><td></td></tr> <tr> <td>8.128 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V3= -0.158 0.986 0.059	8.128 15.999																																																																																																																																																																																																		
99.095 3.372	V3= -0.158 0.986 0.059																																																																																																																																																																																																		
	99.095 3.371																																																																																																																																																																																																		
EIGENVALUES	EIGENVALUES	EIGENVALUES																																																																																																																																																																																																	
Lambda1=1450.07 S1= 0.366	Lambda1=1450.07 S1= 0.366	Lambda1=1450.07 S1= 0.366																																																																																																																																																																																																	
Lambda2=1271.10 S2= 0.320	Lambda2=1271.10 S2= 0.320	Lambda2=1271.10 S2= 0.320																																																																																																																																																																																																	
Lambda3=1244.82 S3= 0.314	Lambda3=1244.82 S3= 0.314	Lambda3=1244.82 S3= 0.314																																																																																																																																																																																																	
S1/S2= 1.141	S1/S2= 1.141	S1/S2= 1.141																																																																																																																																																																																																	
S2/S3= 1.021	S2/S3= 1.021	S2/S3= 1.021																																																																																																																																																																																																	
S1/S3= 1.165	S1/S3= 1.165	S1/S3= 1.165																																																																																																																																																																																																	
Ln(S1/S2)= 0.132 Ln(S2/S3)=	Ln(S1/S2)= 0.132 Ln(S2/S3)=	Ln(S1/S2)= 0.132 Ln(S2/S3)=																																																																																																																																																																																																	
0.021	0.021	0.021																																																																																																																																																																																																	
C= 0.153	C= 0.153	C= 0.153																																																																																																																																																																																																	
K= 6.305	K= 6.305	K= 6.305																																																																																																																																																																																																	
N=3966	N=3966	N=3966																																																																																																																																																																																																	