

# **CCIM MOUNT FORM ('M-Form')**

## **Basic Information**

Project Number: P2026

Mount Name: M1643

Mount Version (default is 1\*; create new form for each subsequent version): [Click here to enter text.](#)

Alias Mount Name: [Click here to enter text.](#)

Mount Title: [Click here to enter text.](#)

Mount Type (fill): Indium press 25 mm

Sample Types Mounted (e.g., zircon, diamond): diamond

Mount Names mounted (e.g., m1234): [Click here to enter text.](#)

Mount prep personnel initials: RD

## **General Mount History**

(chronological [dd/mm/yyyy] tracking information, examples shown, add details as relevant)

- date of preparation initiation: 03/11/2020
- date of mount renewal: [Click here to enter a date.](#)
- date of mount removal from CCIM: [Click here to enter a date.](#)

## **Fixing History**

(dates, personnel, methods, and results; refer to generic procedure codes where appropriate)

- 04/11/2020–RD– pressed sample blocks into indium with RM

## **Polishing History**

(dates, personnel, methods, and results; refer to generic procedure codes where appropriate)

- [Click here to enter a date.](#) – Select personnel – Choose an SOP.
- Polishing pad at force for duration

## **Cleaning History**

(dates, personnel, methods, and results; refer to generic procedure codes where appropriate)

- 05/11/2020 – RD– cleaned dry with kimwipe and brush, followed by spray of dental tool to better dislodge particles (brief oven dry)

## **Coating/Conductivity History**

(dates, personnel, methods, and results; refer to generic procedure codes where appropriate)

- 05/11/2020 – RD–SOP\_CT100110 (sputter) coated with 20.0 nm of Au.

## Mount Map M1643

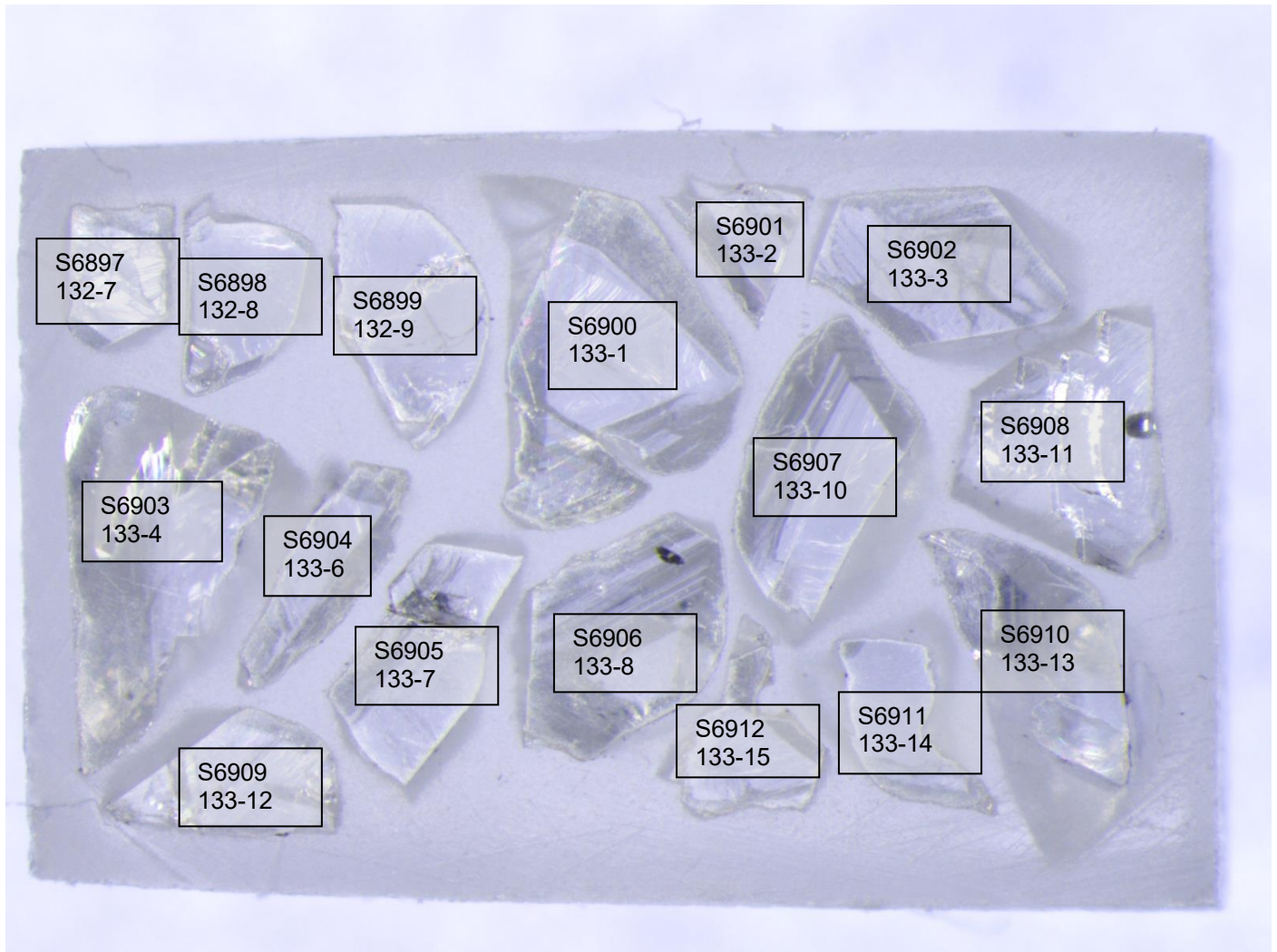
(list identities, attach image and show locations)

CCIM Sample #	Alias Sample #	CCIM Sample #	Alias Sample #	CCIM Sample #	Alias Sample #
S0270M		S6913	134-1	S6931	138-12
S0233A2		S6914	134-2	S6932	139-1
S6897	132-7	S6915	135-1	S6933	140-1
S6898	132-8	S6916	135-2	S6934	140-2
S6899	132-9	S6917	135-3	S6935	141-1
S6900	133-1	S6918	136-1	S6936	142-1
S6901	133-2	S6919	137-1	S6937	142-2
S6902	133-3	S6920	138-1	S6938	142-3
S6903	133-4	S6921	138-2	S6939	142-4
S6904	133-6	S6922	138-3	S6940	143-1
S6905	133-7	S6923	138-4	S6941	143-2
S6906	133-8	S6924	138-5	S6942	144-1
S6907	133-10	S6925	138-6	S6943	145-1
S6908	133-11	S6926	138-7	S6944	146-1
S6909	133-12	S6927	138-8	S6945	146-2
S6910	133-13	S6928	138-9	S6946	147-1
S6911	133-14	S6929	138-10	S6947	147-2
S6912	133-15	S6930	138-11	S6948	148-1

Front:

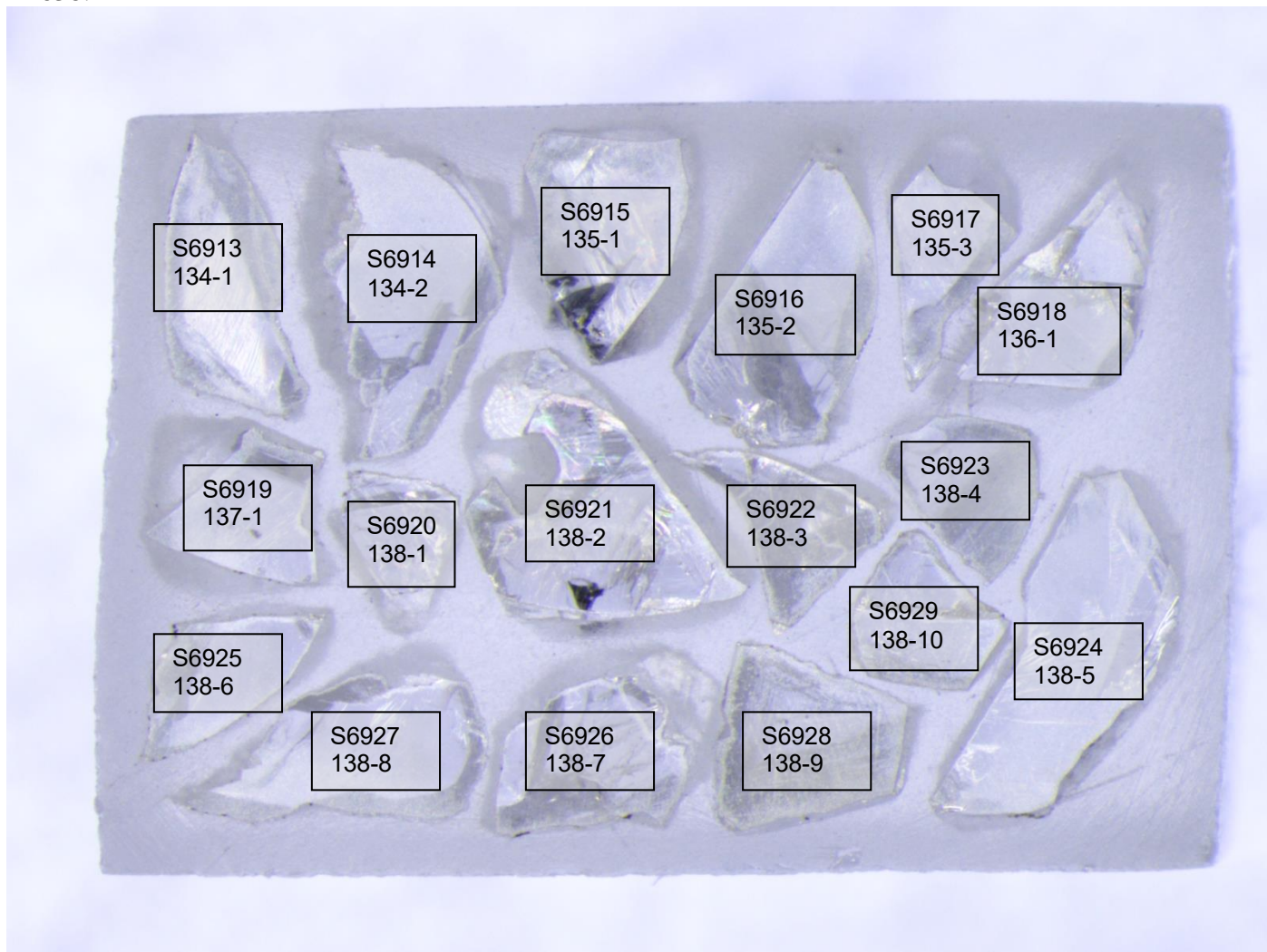


m1637:



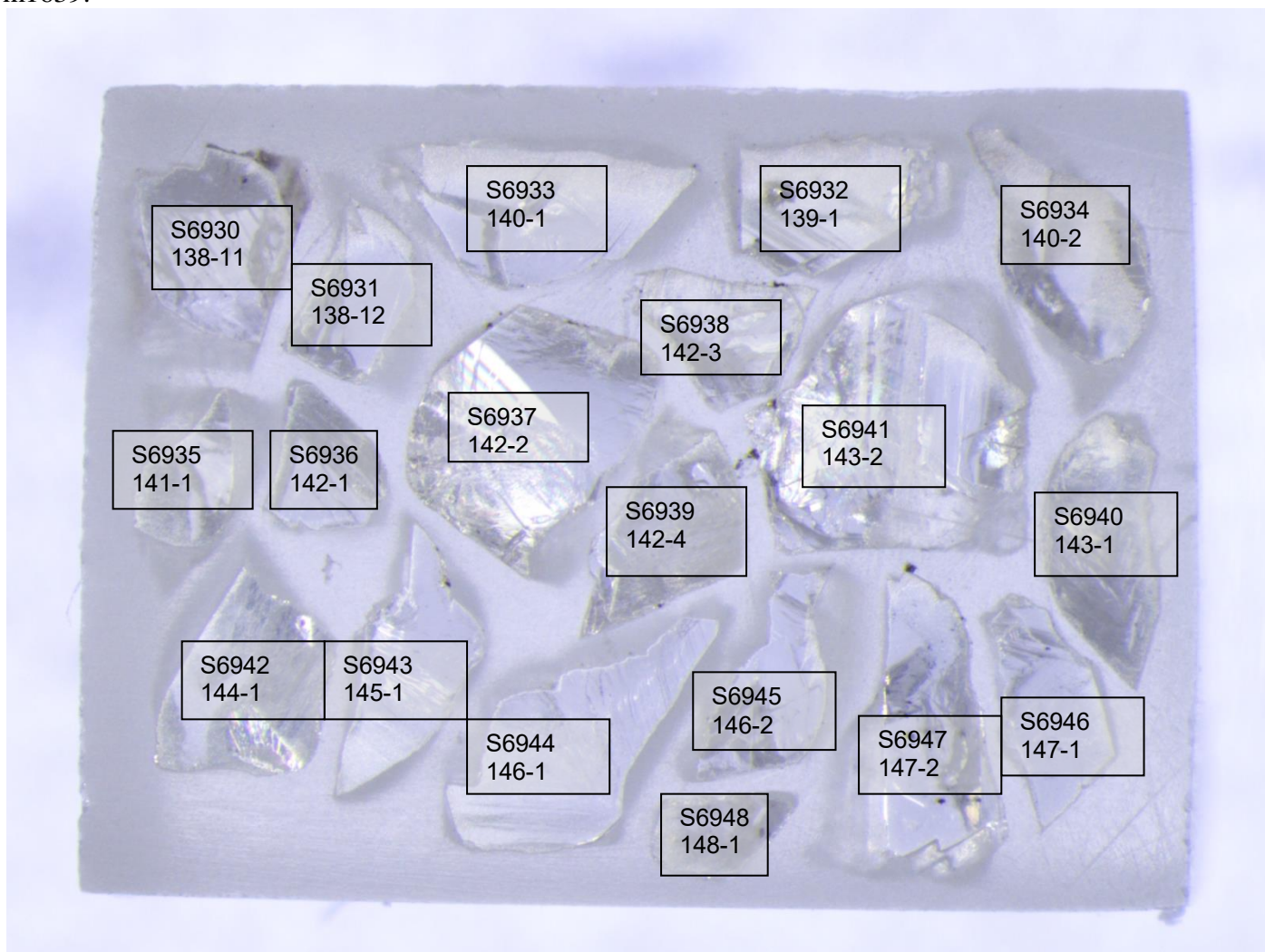


m1638:



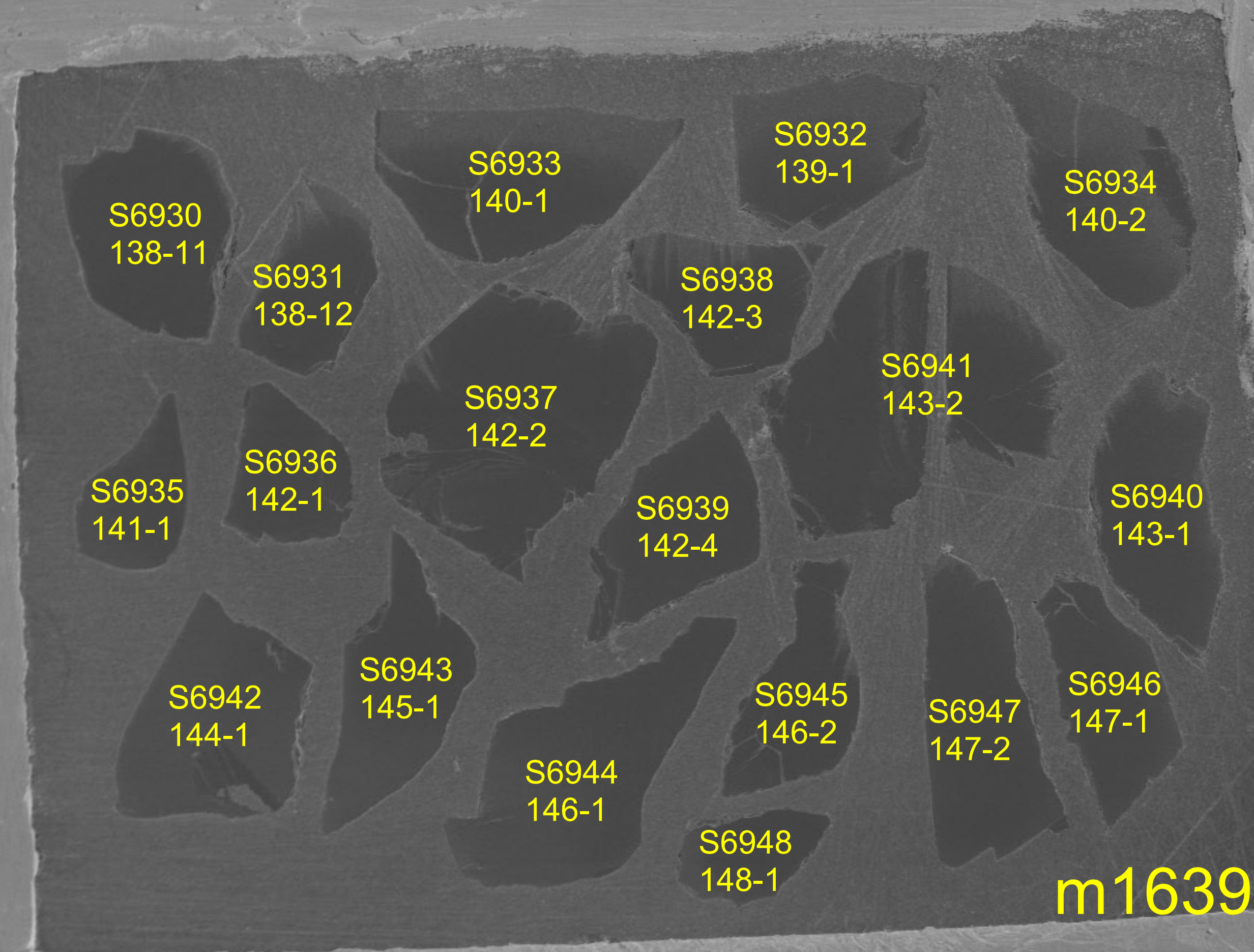
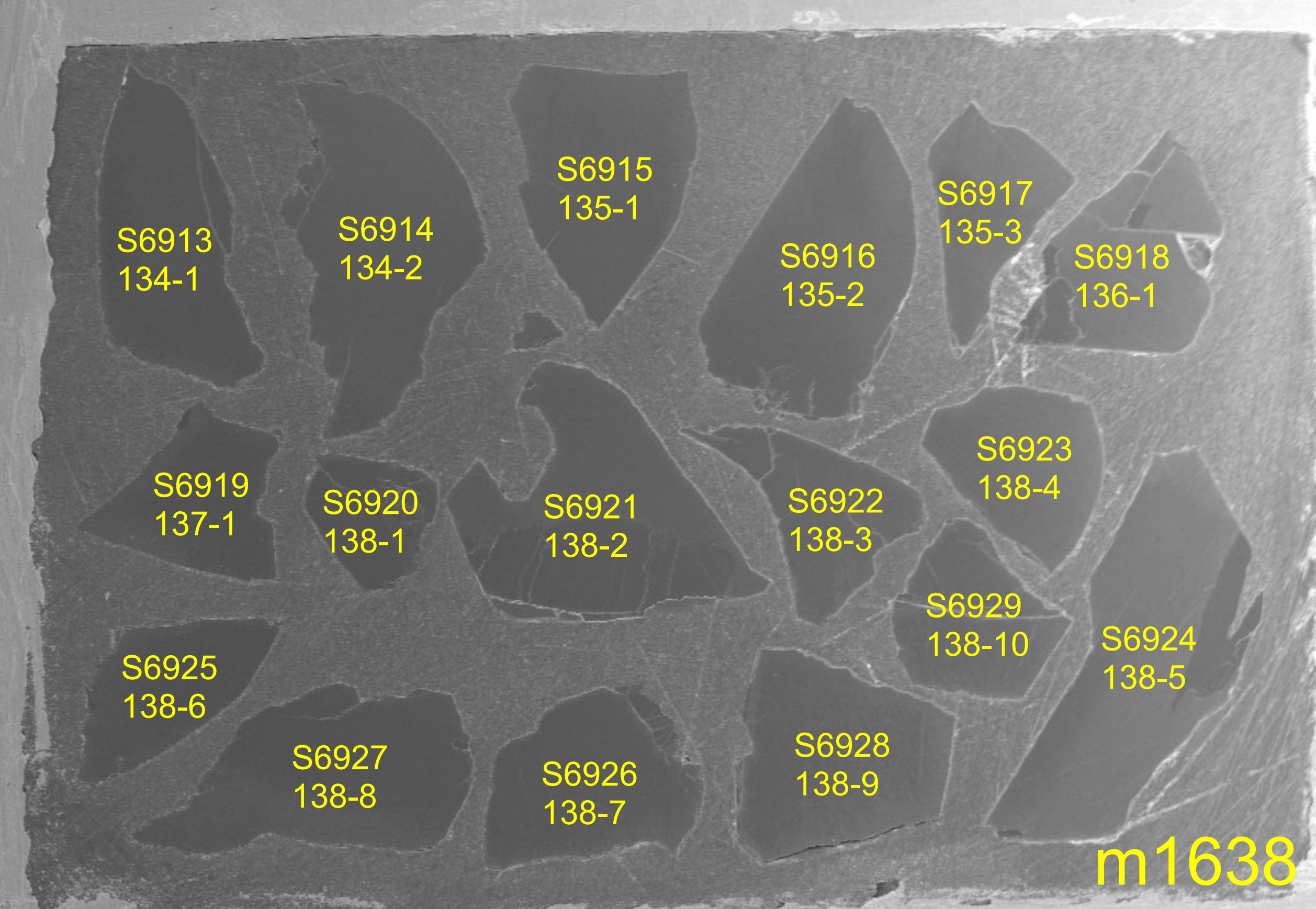
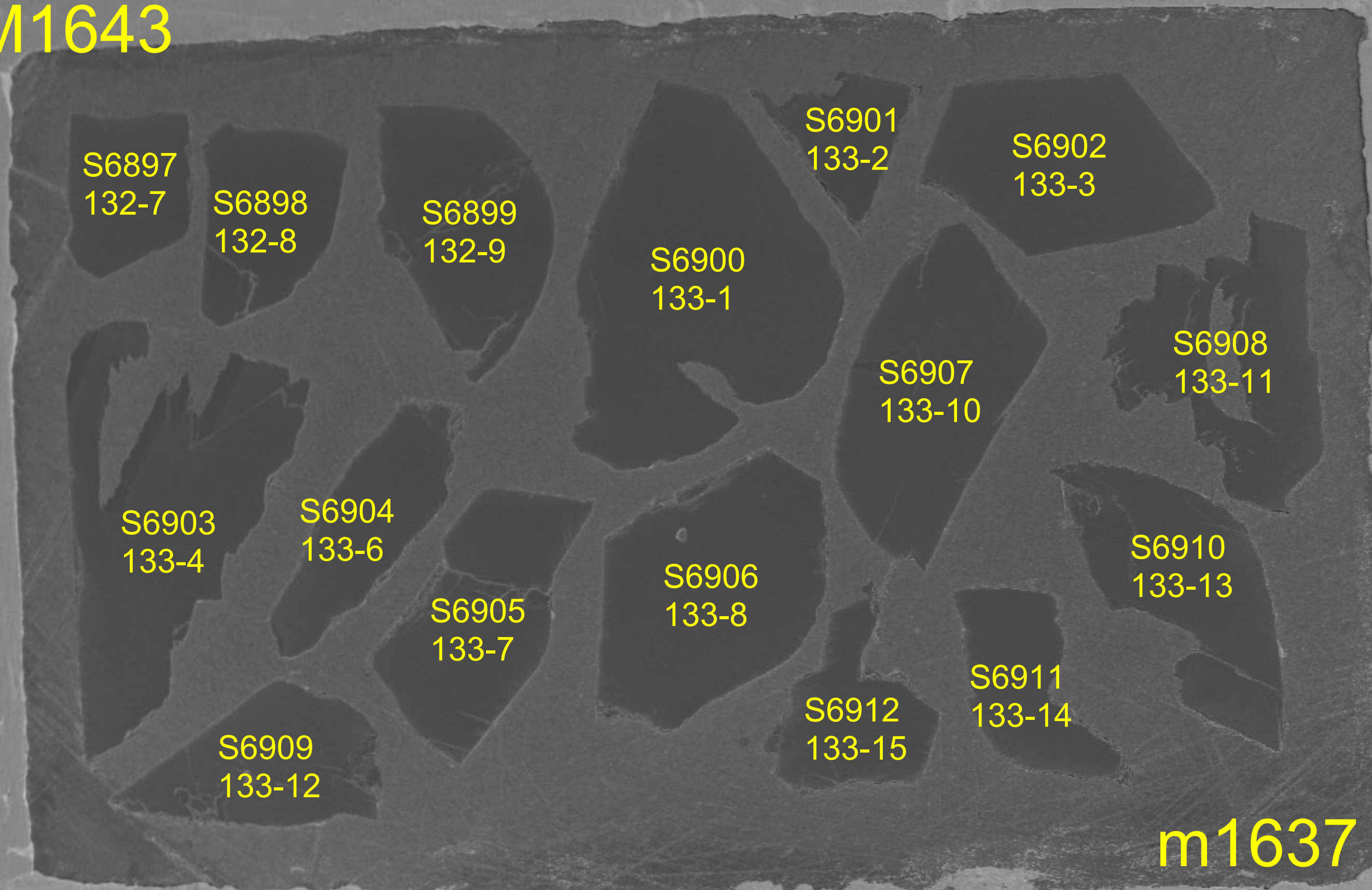


m1639:



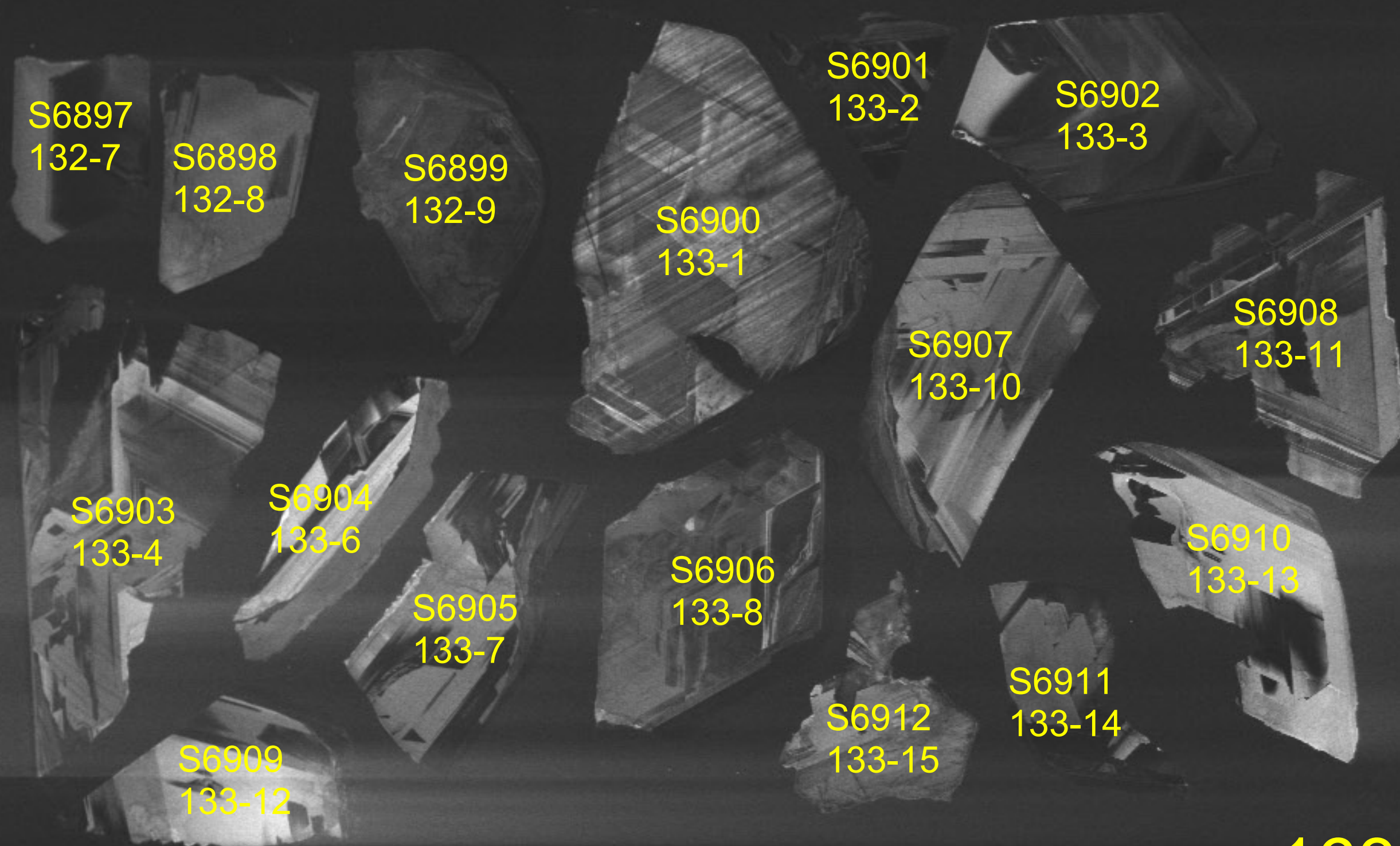


M1643

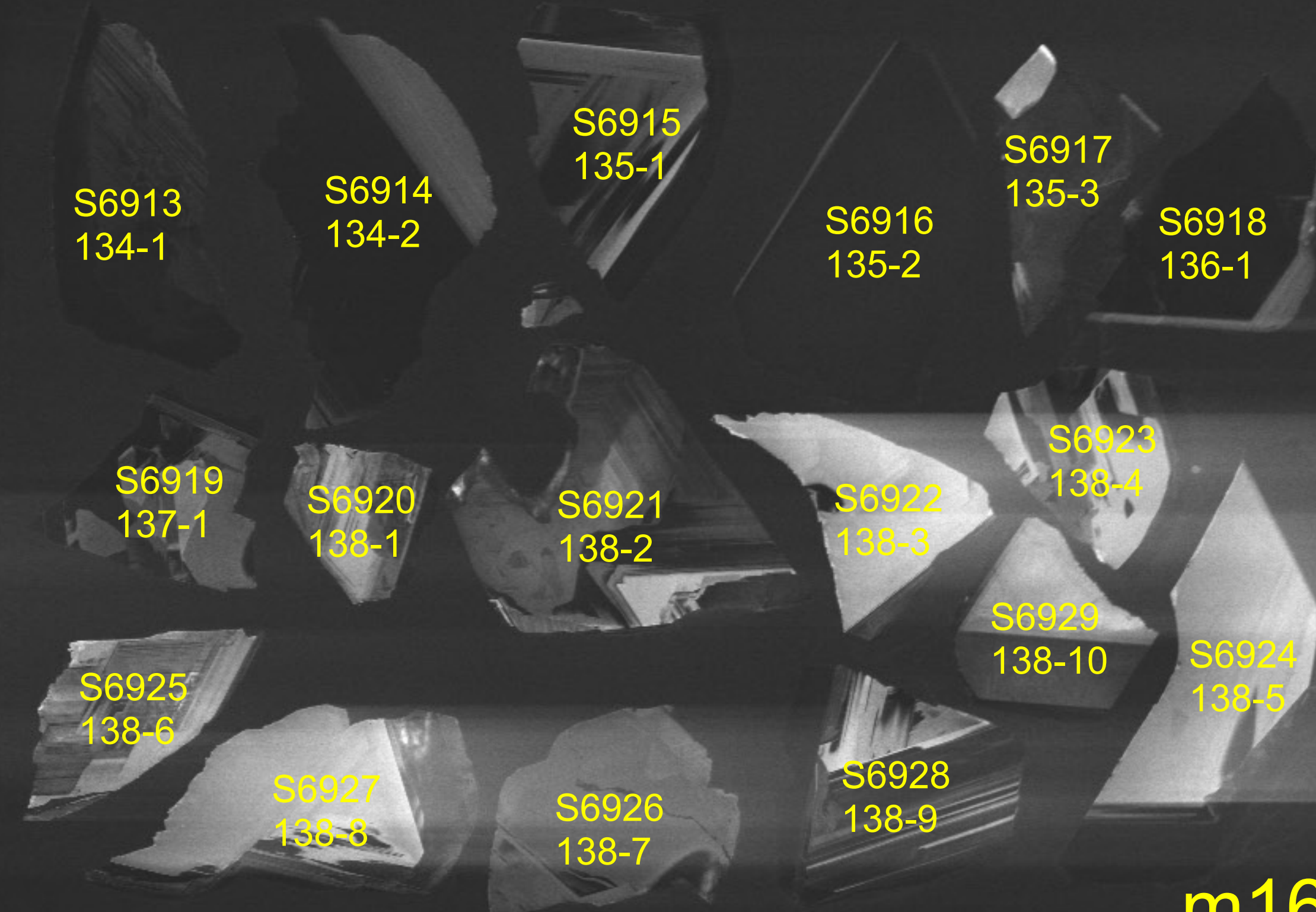




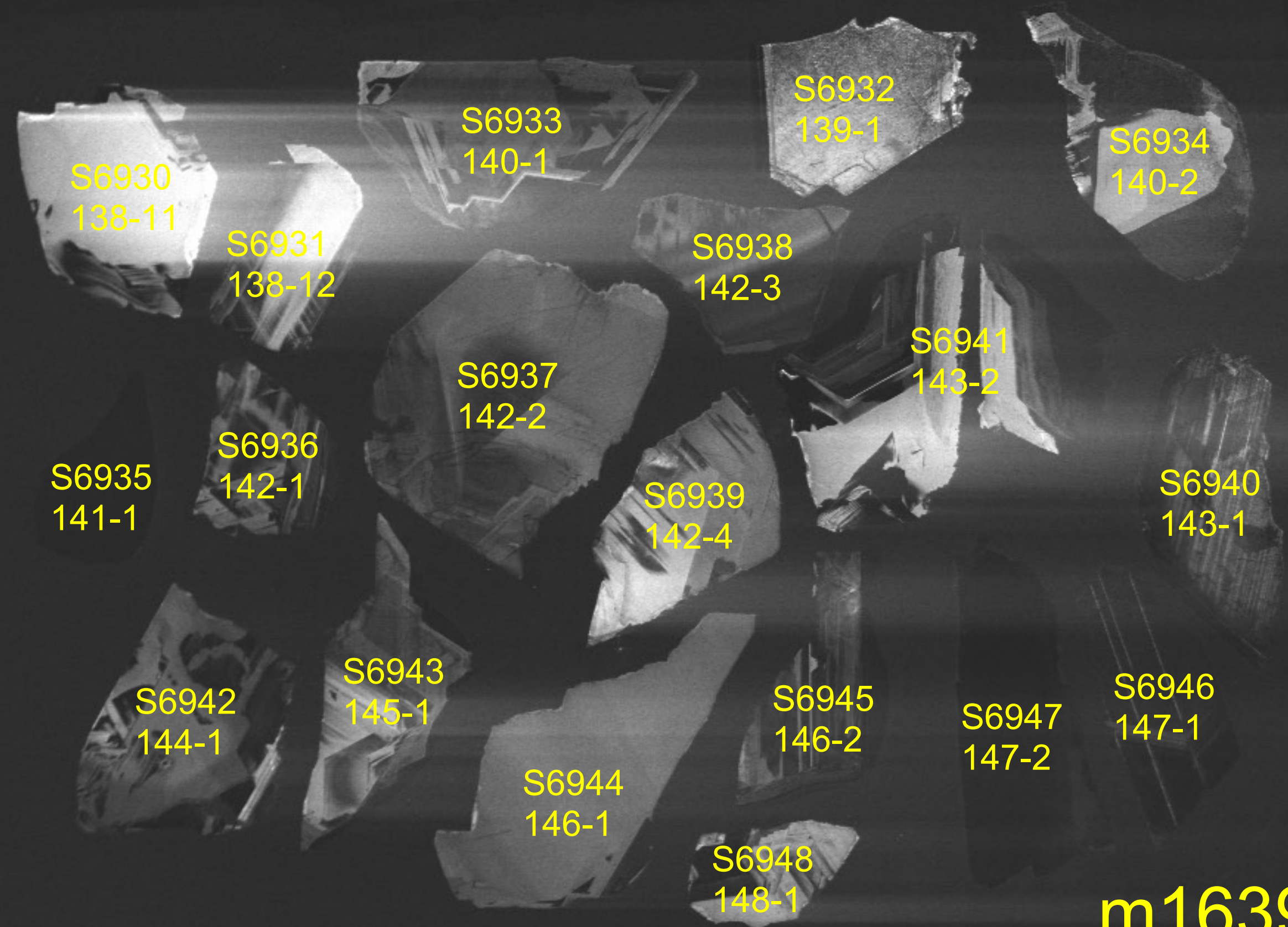
M1643



m1637



m1638



m1639

S0270M

S0233A2

1 mm\*

Mag = 62 X

WD = 45.0 mm

Signal A = Aux 1

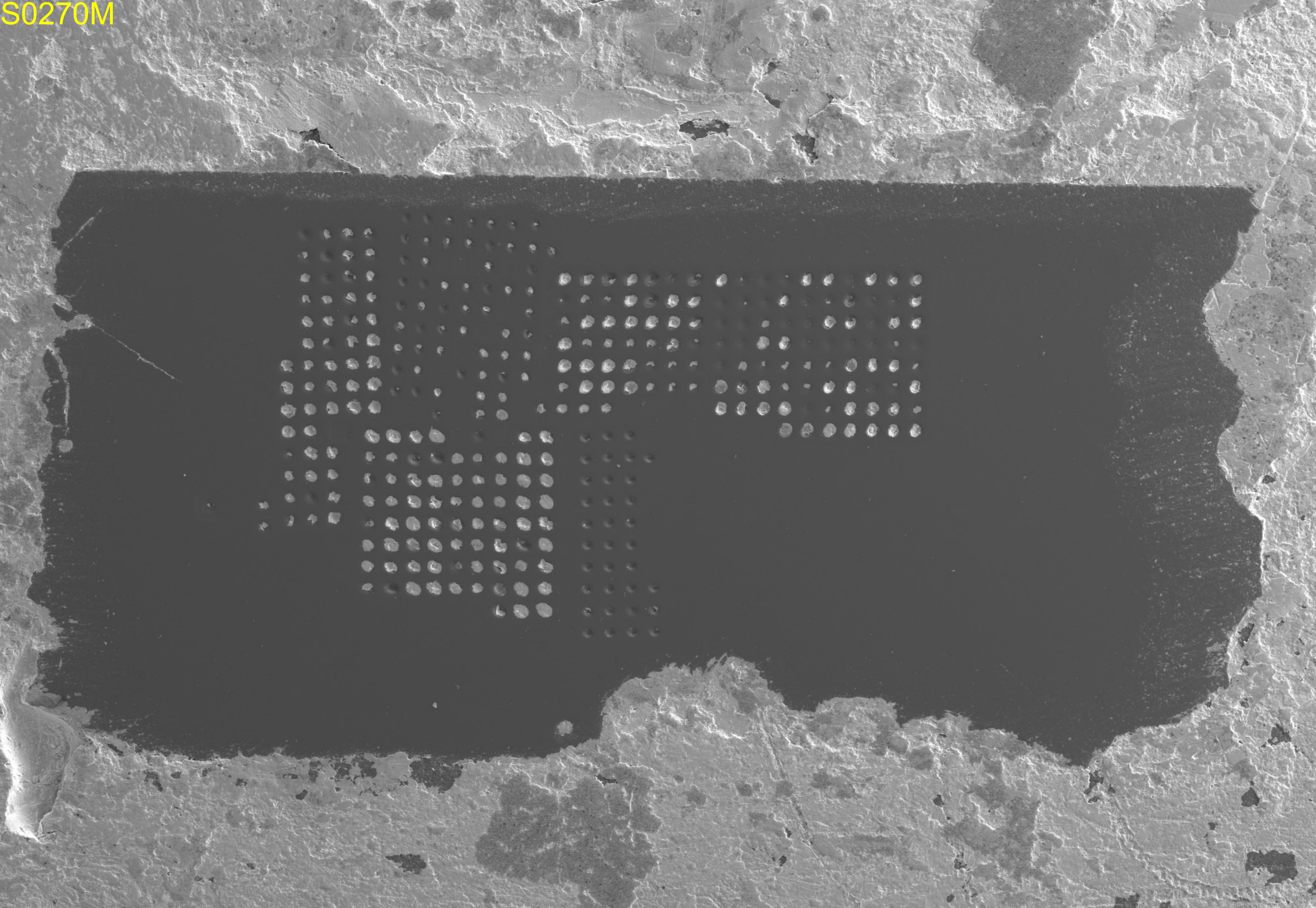
EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -746.1 pA

File Name = SEM20035\_M1643\_MAP\_CL\_1.tif



S0270M



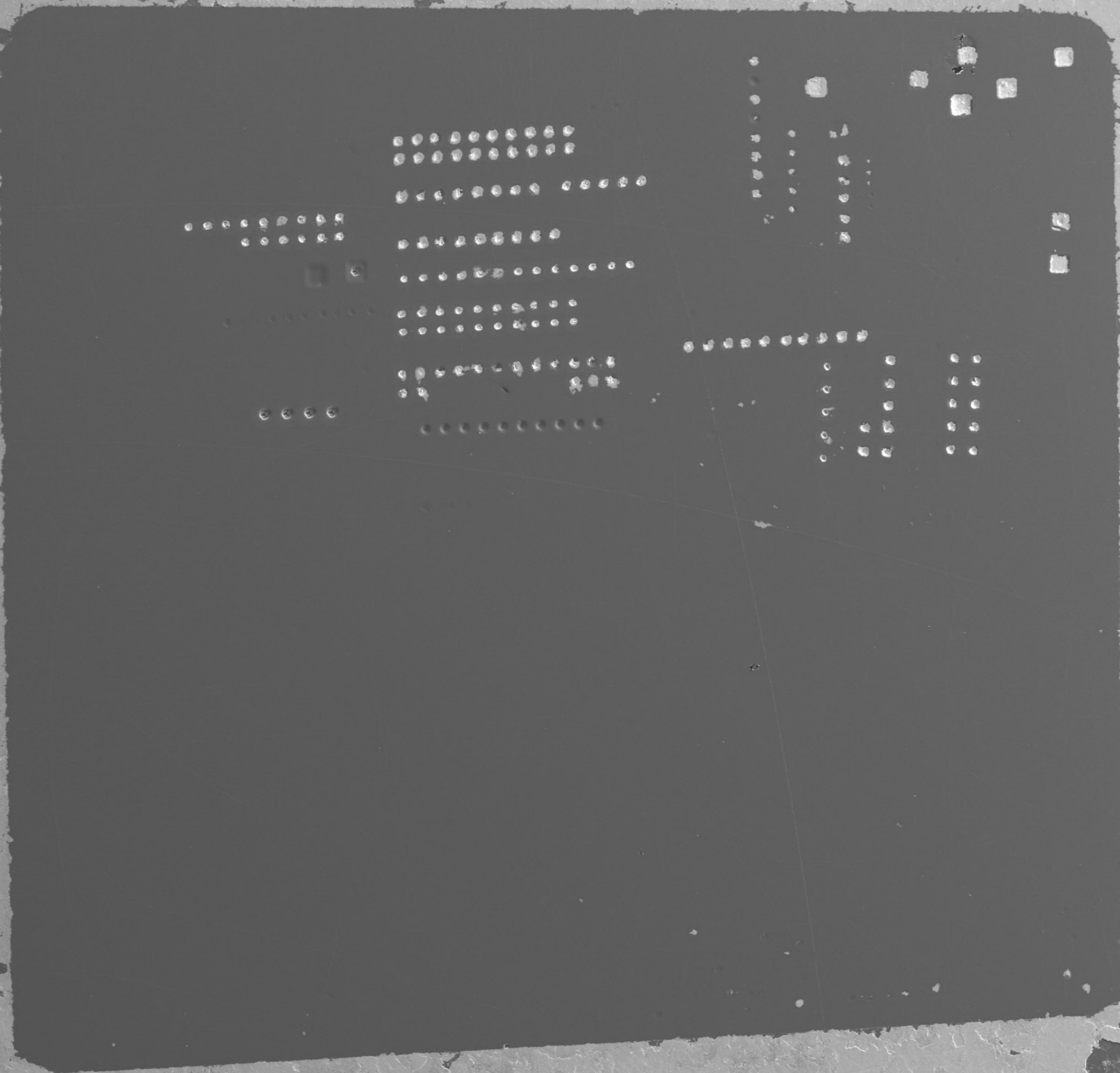


S0270M



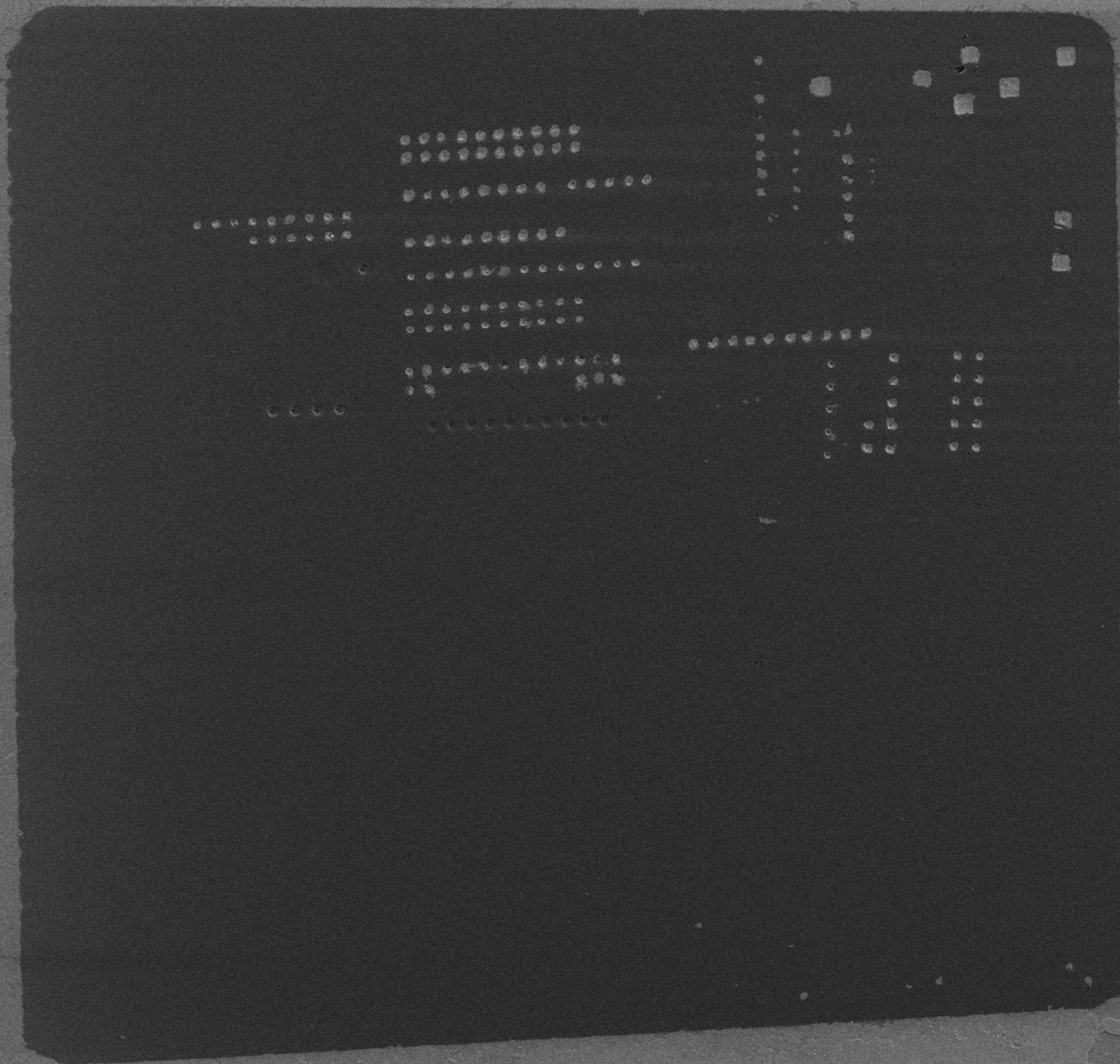


S0233A2



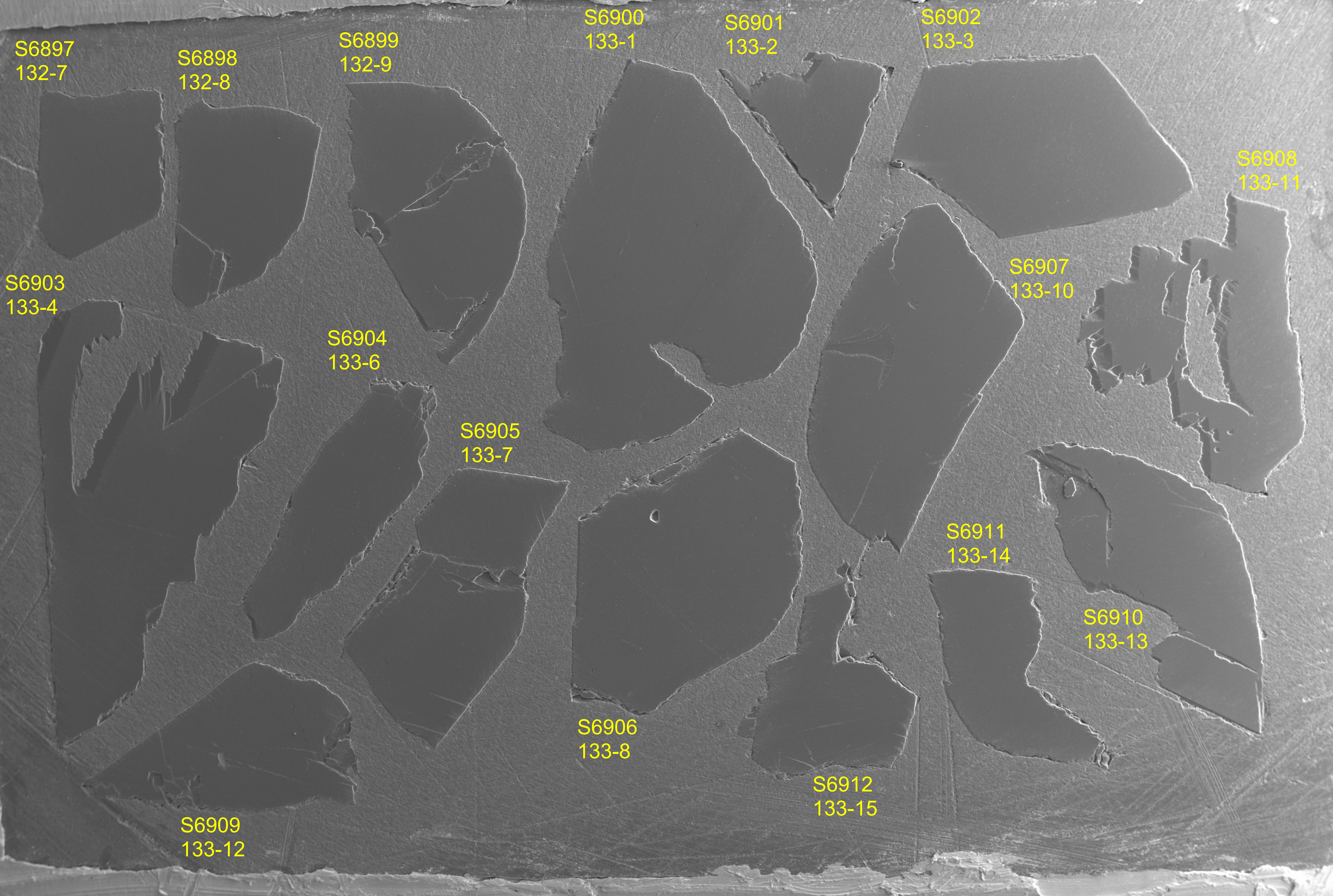


S0233A2



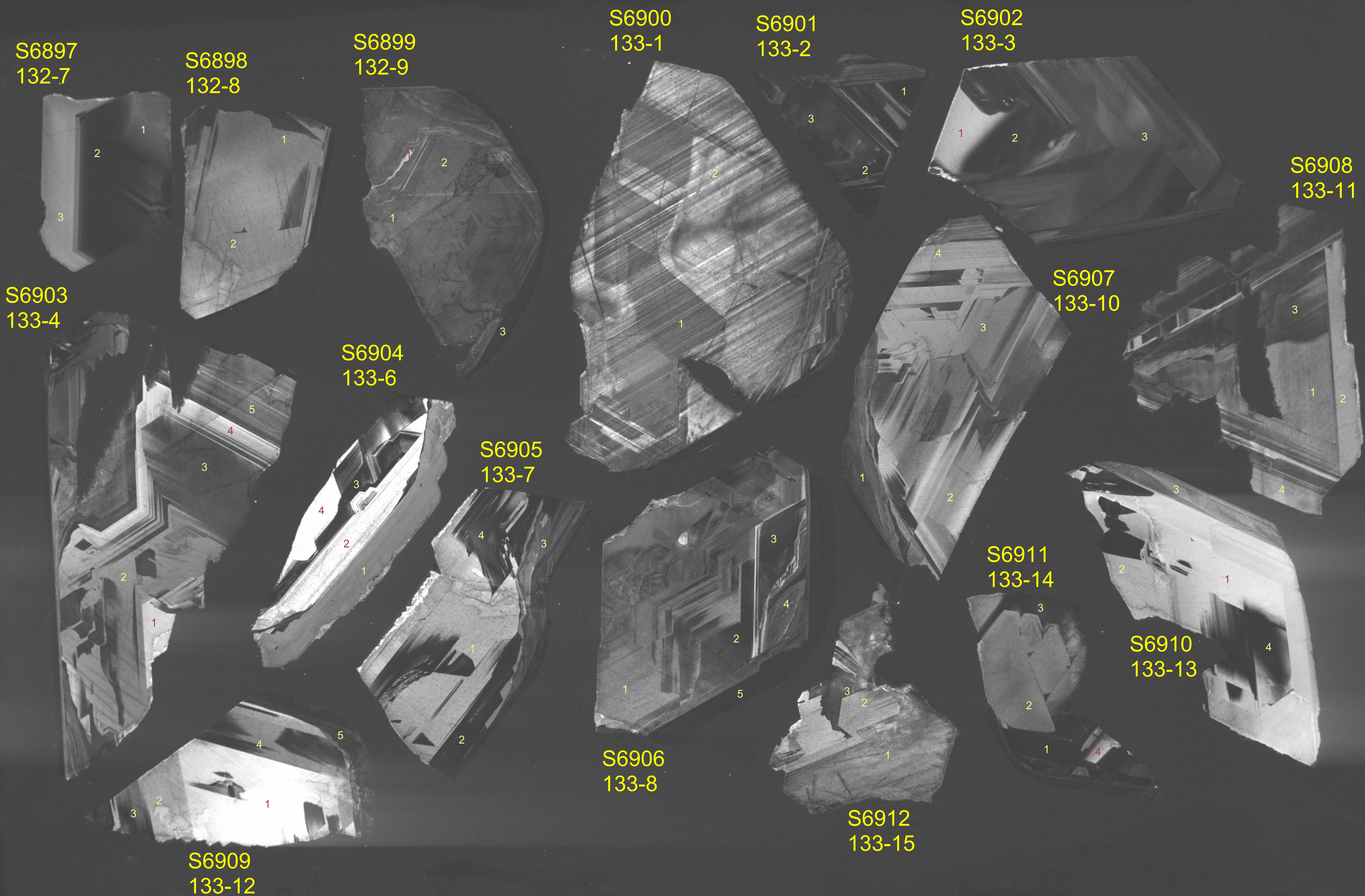


m1637





m1637



Annotate this image

1 2 3 4 5  
1 2 3 4 5



m1637  
(NW)

S6897  
132-7

S6898  
132-8

S6899  
132-9



m1637  
(NW)

S6897  
132-7

S6898  
132-8

S6899  
132-9

100  $\mu\text{m}^*$

Mag = 339 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -2.07 nA

File Name = SEM20035\_M1643\_m1637\_CL\_3.tif



m1637  
(NW)

S6897  
132-7

S6898  
132-8

S6899  
132-9

100  $\mu\text{m}^*$

Mag = 339 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.94 nA

File Name = SEM20035\_M1643\_m1637\_CL\_4.tif



m1637  
(NE)

S6901  
133-2

S6902  
133-3

S6900  
133-1

S6907  
133-10

S6908  
133-11



m1637  
(NE)

S6901  
133-2

S6902  
133-3

S6900  
133-1

S6907  
133-10

S6908  
133-11



m1637  
(NE)

S6901  
133-2

S6902  
133-3

S6900  
133-1

S6907  
133-10

S6908  
133-11



m1637  
(SW)

S6903  
133-4

S6904  
133-6

S6905  
133-7

S6909  
133-12

200  $\mu\text{m}^*$

Mag = 239 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -2.15 nA

File Name = SEM20035\_M1643\_m1637\_SE\_9.tif



m1637  
(SW)

S6903  
133-4

S6904  
133-6

S6905  
133-7

S6909  
133-12

200  $\mu\text{m}^*$   
|-----|

Mag = 239 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -2.24 nA

File Name = SEM20035\_M1643\_m1637\_CL\_10.tif



m1637  
(SW)

S6903  
133-4

S6904  
133-6

S6905  
133-7

S6909  
133-12

200  $\mu\text{m}^*$   
|-----|

Mag = 239 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -2.15 nA

File Name = SEM20035\_M1643\_m1637\_CL\_9.tif



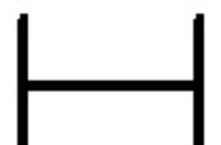
m1637  
(SE)

S6906  
133-8

S6910  
133-13

S6911  
133-14

S6912  
133-15

100  $\mu\text{m}^*$   


Mag = 249 X

WD = 16.5 mm

Signal A = SE1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.82 nA

File Name = SEM20035\_M1643\_m1637\_SE\_12.tif



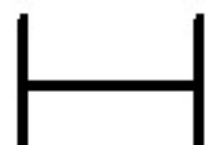
m1637  
(SE)

S6906  
133-8

S6910  
133-13

S6911  
133-14

S6912  
133-15

100  $\mu\text{m}^*$   


Mag = 249 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.54 nA

File Name = SEM20035\_M1643\_m1637\_CL\_13.tif



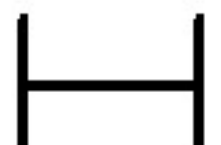
m1637  
(SE)

S6906  
133-8

S6910  
133-13

S6911  
133-14

S6912  
133-15

100  $\mu\text{m}^*$   


Mag = 249 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.87 nA

File Name = SEM20035\_M1643\_m1637\_CL\_14.tif



m1638

S6913  
134-1

S6914  
134-2

S6915  
135-1

S6916  
135-2

S6917  
135-3

S6918  
136-1

S6919  
137-1

S6920  
138-1

S6921  
138-2

S6922  
138-3

S6923  
138-4

S6924  
138-5

S6925  
138-6

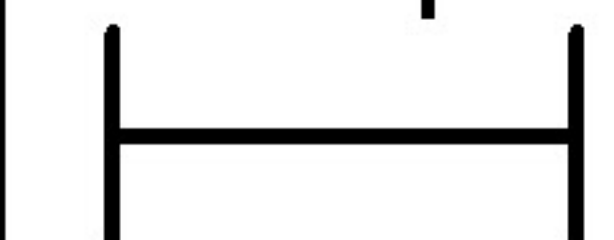
S6927  
138-8

S6926  
138-7

S6928  
138-9

S6929  
138-10

300  $\mu\text{m}^*$



Mag = 148 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.32 nA

File Name = SEM20035\_M1643\_m1638\_SE\_1.tif



m1638

S6913  
134-1

S6914  
134-2

S6915  
135-1

S6916  
135-2

S6917  
135-3

S6918  
136-1

S6919  
137-1

S6920  
138-1

S6921  
138-2

S6922  
138-3

S6923  
138-4

S6924  
138-5

S6925  
138-6

S6927  
138-8

S6926  
138-7

S6928  
138-9

S6929  
138-10

Annotate this image

1 2 3 4 5  
1 2 3 4 5

300  $\mu\text{m}^*$



Mag = 148 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.36 nA

File Name = SEM20035\_M1643\_m1638\_CL\_2.tif



m1638  
(NW)

S6913  
134-1

S6914  
134-2

S6915  
135-1

200  $\mu\text{m}^*$   
|-----|

Mag = 287 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.79 nA

File Name = SEM20035\_M1643\_m1638\_SE\_3.tif



m1638  
(NW)

S6913  
134-1

S6914  
134-2

S6915  
135-1

200  $\mu\text{m}^*$   
|-----|

Mag = 287 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.72 nA

File Name = SEM20035\_M1643\_m1638\_CL\_4.tif



m1638  
(NW)

S6913  
134-1

S6914  
134-2

S6915  
135-1

200  $\mu\text{m}^*$   
|-----|

Mag = 287 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.72 nA

File Name = SEM20035\_M1643\_m1638\_CL\_5.tif



m1638  
(NE)

S6916  
135-2

S6917  
135-3

S6918  
136-1



m1638  
(NE)

S6916  
135-2

S6917  
135-3

S6918  
136-1



m1638  
(NE)

S6916  
135-2

S6917  
135-3

S6918  
136-1



m1638  
(SW)

S6919  
137-1

S6921  
138-2

S6920  
138-1

S6925  
138-6

S6927  
138-8

S6926  
138-7



m1638  
(SW)

S6919  
137-1

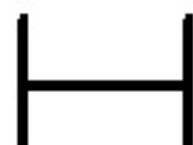
S6920  
138-1

S6921  
138-2

S6925  
138-6

S6927  
138-8

S6926  
138-7

100  $\mu\text{m}^*$   


Mag = 233 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -1.52 nA

File Name = SEM20035\_M1643\_m1638\_CL\_11.tif



m1638  
(SW)

S6919  
137-1

S6921  
138-2

S6920  
138-1

S6925  
138-6

S6927  
138-8

S6926  
138-7



m1638  
(SE)

S6922  
138-3

S6923  
138-4

S6924  
138-5

S6928  
138-9

S6929  
138-10



m1638  
(SE)

S6922  
138-3

S6923  
138-4

S6924  
138-5

S6928  
138-9

S6929  
138-10



m1638  
(SE)

S6922  
138-3

S6923  
138-4

S6924  
138-5

S6928  
138-9

S6929  
138-10

200  $\mu\text{m}^*$   
|-----|

Mag = 254 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -1.94 nA

File Name = SEM20035\_M1643\_m1638\_CL\_13.tif



m1639

S6930  
138-11

S6931  
138-12

S6933  
140-1

S6932  
139-1

S6934  
140-2

S6938  
142-3

S6941  
143-2 (S6941  
143-2)

S6937  
142-2

S6936  
142-1

S6935  
141-1

S6939  
142-4

S6940  
143-1

S6947  
147-2

S6946  
147-1

S6945  
146-2

S6942  
144-1

S6943  
145-1

S6944  
146-1

S6948  
148-1

200  $\mu\text{m}^*$

Mag = 142 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.38 nA

File Name = SEM20035\_M1643\_m1639\_SE\_1.tif



m1639

S6930  
138-11

S6931  
138-12

S6933  
140-1

S6932  
139-1

S6934  
140-2

S6938  
142-3

S6941  
143-2 (S6941  
143-2)

S6937  
142-2

S6936  
142-1

S6935  
141-1

S6940  
143-1

S6939  
142-4

S6947  
147-2

S6946  
147-1

S6942  
144-1

S6943  
145-1

S6944  
146-1

S6945  
146-2

S6948  
148-1

Annotate this image

1 2 3 4 5  
1 2 3 4 5

200  $\mu\text{m}^*$

Mag = 142 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 5 Nov 2020

Specimen I = -1.31 nA

File Name = SEM20035\_M1643\_m1639\_CL\_2.tif



m1639  
(NW)

S6930  
138-11

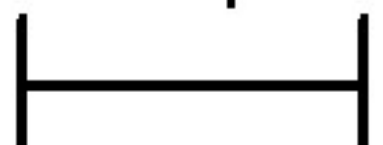
S6933  
140-1

S6931  
138-12

S6937  
142-2

S6936  
142-1

S6935  
141-1

200  $\mu\text{m}^*$   


Mag = 243 X

WD = 16.5 mm

Signal A = SE1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.37 nA

File Name = SEM20035\_M1643\_m1639\_SE\_16.tif



m1639  
(NW)

S6930  
138-11

S6933  
140-1

S6931  
138-12

S6937  
142-2

S6936  
142-1

S6935  
141-1

200  $\mu\text{m}^*$   
|-----|

Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.37 nA

File Name = SEM20035\_M1643\_m1639\_CL\_16.tif



m1639  
(NW)

S6930  
138-11

S6933  
140-1

S6931  
138-12

S6937  
142-2

S6936  
142-1

S6935  
141-1

200  $\mu\text{m}^*$   
|-----|

Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.09 nA

File Name = SEM20035\_M1643\_m1639\_CL\_18.tif



m1639  
(NW)

S6930  
138-11

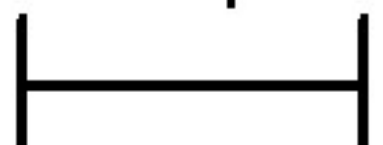
S6933  
140-1

S6931  
138-12

S6937  
142-2

S6936  
142-1

S6935  
141-1

200  $\mu\text{m}^*$   


Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -1.97 nA

File Name = SEM20035\_M1643\_m1639\_CL\_20.tif



m1639  
(NE)

S6932  
139-1

S6934  
140-2

S6938  
142-3

S6941  
143-2

(S6941  
143-2)

200  $\mu\text{m}^*$   
|-----|

Mag = 243 X

WD = 16.5 mm

Signal A = SE1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.47 nA

File Name = SEM20035\_M1643\_m1639\_SE\_21.tif



m1639  
(NE)

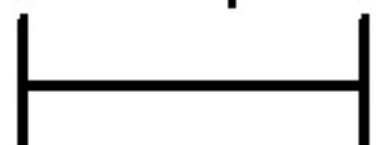
S6932  
139-1

S6934  
140-2

S6938  
142-3

S6941  
143-2

(S6941  
143-2)

200  $\mu\text{m}^*$   


Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.32 nA

File Name = SEM20035\_M1643\_m1639\_CL\_22.tif



m1639  
(NE)

S6932  
139-1

S6934  
140-2

S6938  
142-3

S6941  
143-2

(S6941  
143-2)

200  $\mu\text{m}^*$   
|-----|

Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.47 nA

File Name = SEM20035\_M1643\_m1639\_CL\_21.tif



m1639  
(SW)

S6942  
144-1

S6943  
145-1

S6939  
142-4

S6944  
146-1



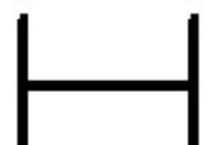
m1639  
(SW)

S6942  
144-1

S6943  
145-1

S6939  
142-4

S6944  
146-1

100  $\mu\text{m}^*$   


Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.32 nA

File Name = SEM20035\_M1643\_m1639\_CL\_25.tif



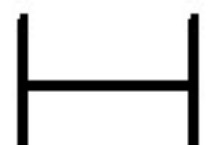
m1639  
(SW)

S6942  
144-1

S6943  
145-1

S6939  
142-4

S6944  
146-1

100  $\mu\text{m}^*$   


Mag = 243 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -2.30 nA

File Name = SEM20035\_M1643\_m1639\_CL\_24.tif



m1639  
(SE)

S6939  
142-4

S6940  
143-1

S6947  
147-2

S6946  
147-1

S6945  
146-2

S6948  
148-1



m1639  
(SE)

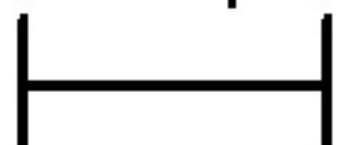
S6940  
143-1

S6947  
147-2

S6946  
147-1

S6945  
146-2

S6948  
148-1

200  $\mu\text{m}^*$   


Mag = 218 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -1.41 nA

File Name = SEM20035\_M1643\_m1639\_CL\_28.tif



m1639  
(SE)

S6940  
143-1

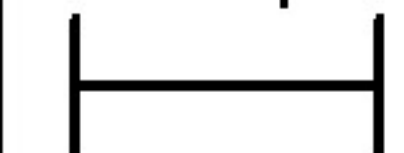
S6947  
147-2

S6946  
147-1

S6945  
146-2

S6948  
148-1

200  $\mu\text{m}^*$



Mag = 218 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -1.38 nA

File Name = SEM20035\_M1643\_m1639\_CL\_29.tif



m1639  
(SE)

S6939  
142-4

S6940  
143-1

S6947  
147-2

S6946  
147-1

S6945  
146-2

S6948  
148-1

200  $\mu\text{m}^*$   
|-----|

Mag = 218 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 6 Nov 2020

Specimen I = -1.39 nA

File Name = SEM20035\_M1643\_m1639\_CL\_31.tif