

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

## **Basic Information**

Project Number: P2026

Mount Name: M1642

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): m1634, m1635, m1636

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)

- 03/11/2020–RD– pressed sample blocks into indium with reference material

## **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.

## **Cleaning History**

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

- 04/11/2020 – RD– cleaned dry with kimwipe and brush

## **Coating/Conductivity History**

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

- 04/11/2020 – RD–SOP\_CT100110 (sputter) coated with 20.1 nm of Au.

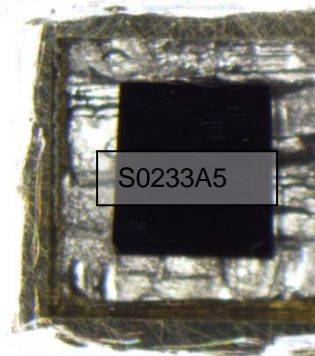
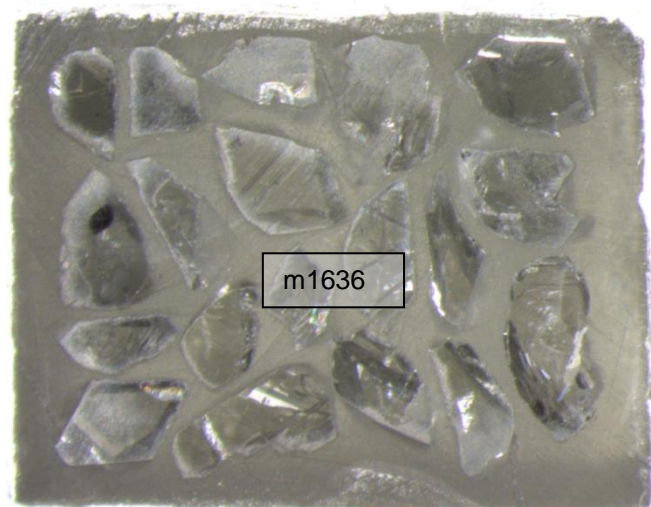
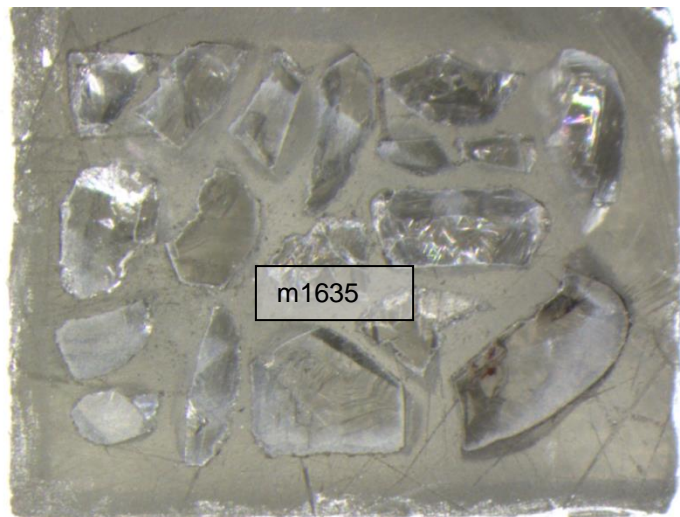
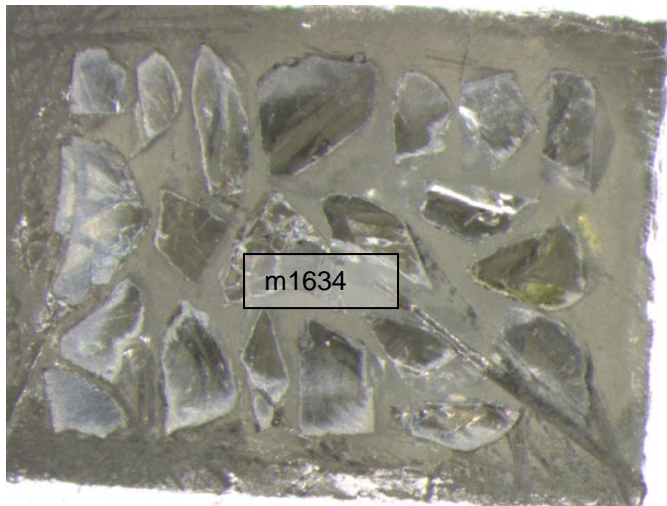
## Mount Map M1642

(list identities, attach image and show locations)

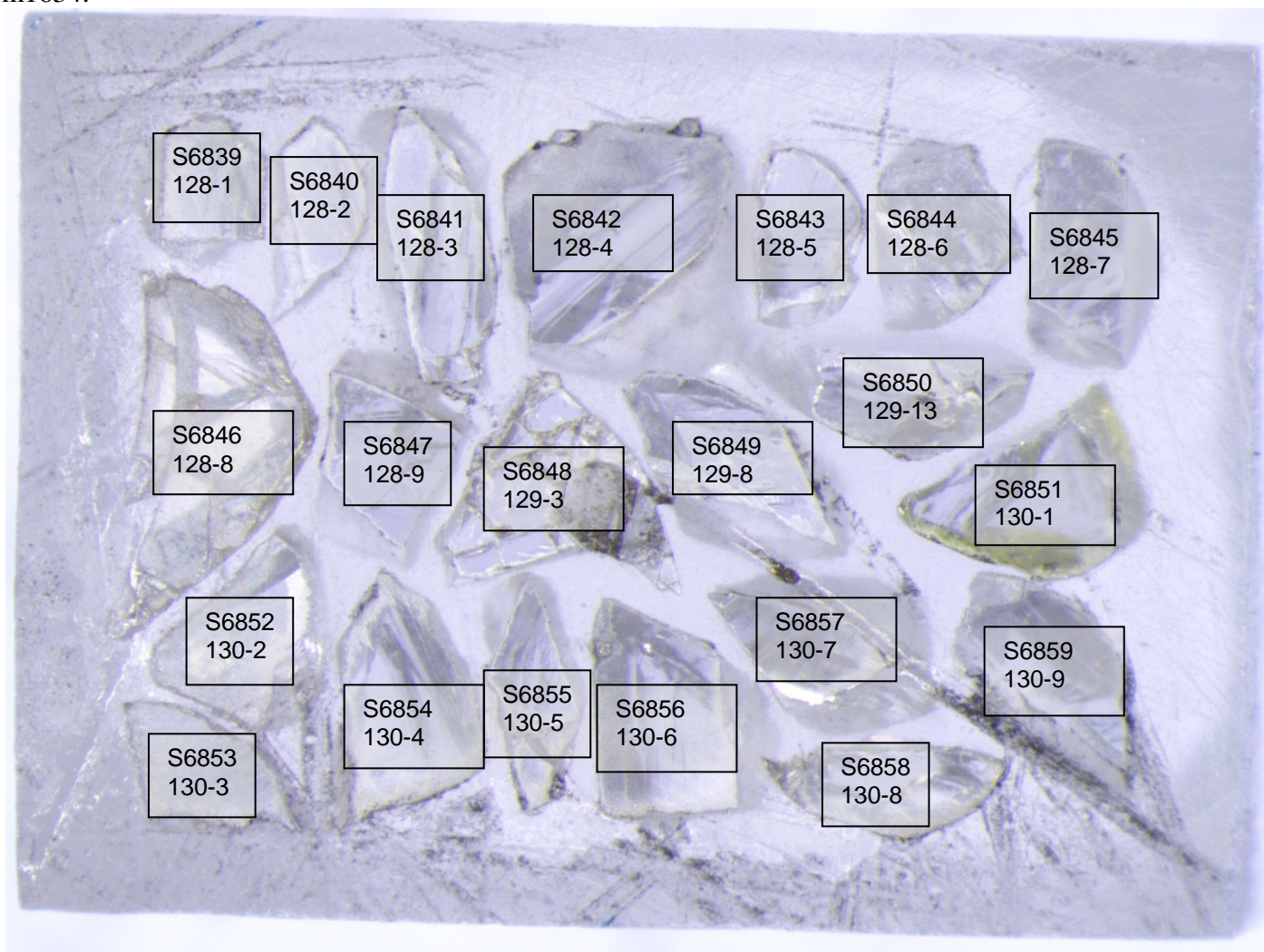
CCIM Sample #	Alias Sample #	CCIM Sample #	Alias Sample #	CCIM Sample #	Alias Sample #
S0233A5		S6857	130-7	S6877	130-29
S0270G		S6858	130-8	S6878	130-30
S6839	128-1	S6859	130-9	S6879	130-31
S6840	128-2	S6860	130-10	S6880	130-32
S6841	128-3	S6861	130-11	S6881	130-33
S6842	128-4	S6862	130-12	S6882	130-34
S6843	128-5	S6863	130-13	S6883	130-35
S6844	128-6	S6864	130-14	S6884	130-36
S6845	128-7	S6865	130-15	S6885	130-37
S6846	128-8	S6866	130-17	S6886	131-1
S6847	128-9	S6867	130-18	S6887	131-2
S6848	129-3	S6868	130-20	S6888	131-3
S6849	129-8	S6869	130-21	S6889	131-4
S6850	129-13	S6870	130-22	S6890	131-5
S6851	130-1	S6871	130-23	S6891	132-1
S6852	130-2	S6872	130-24	S6892	132-2
S6853	130-3	S6873	130-25	S6893	132-3
S6854	130-4	S6874	130-26	S6894	132-4
S6855	130-5	S6875	130-27	S6895	132-5
S6856	130-6	S6876	130-28	S6896	132-6



Front:

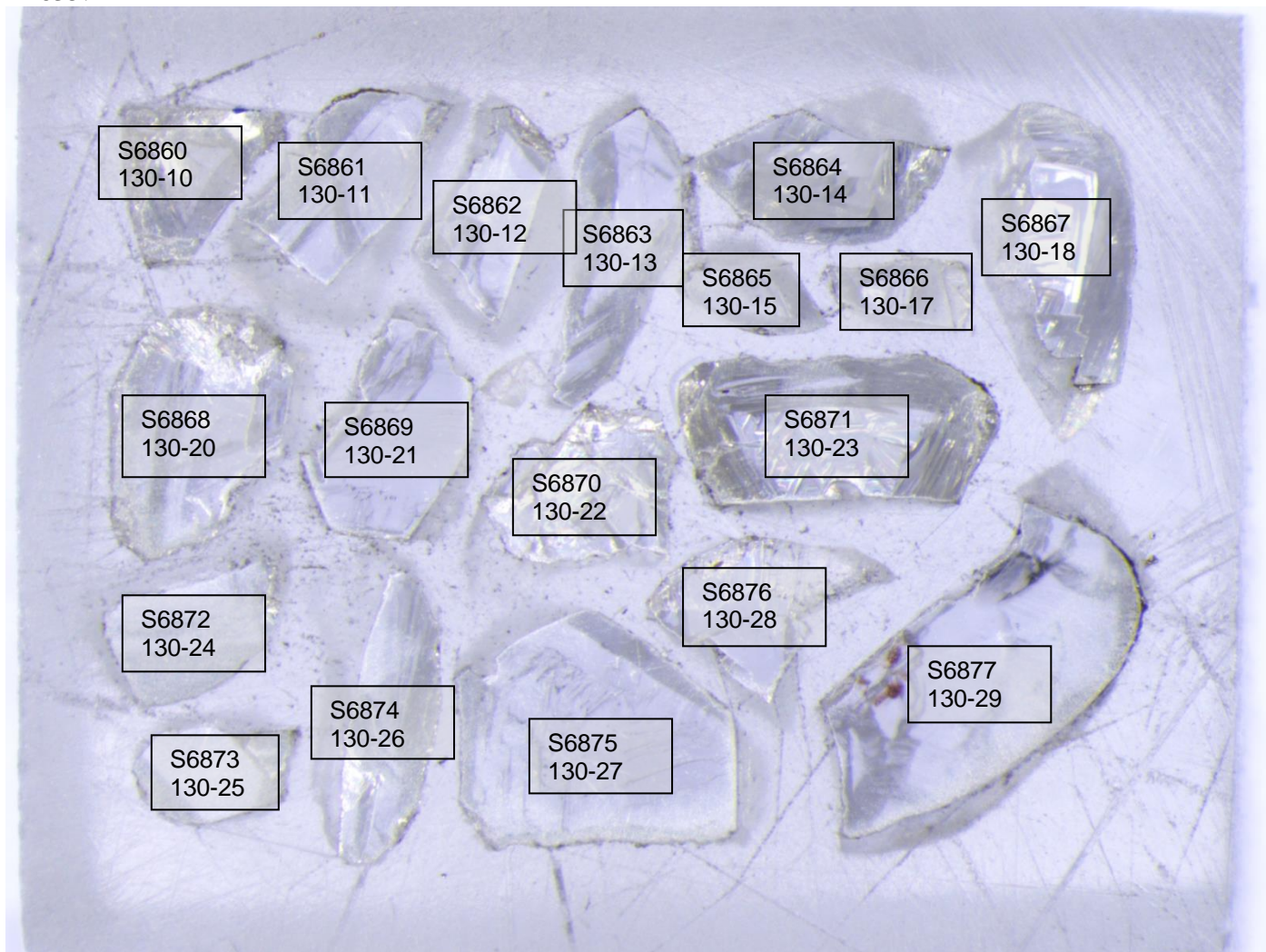


m1634:

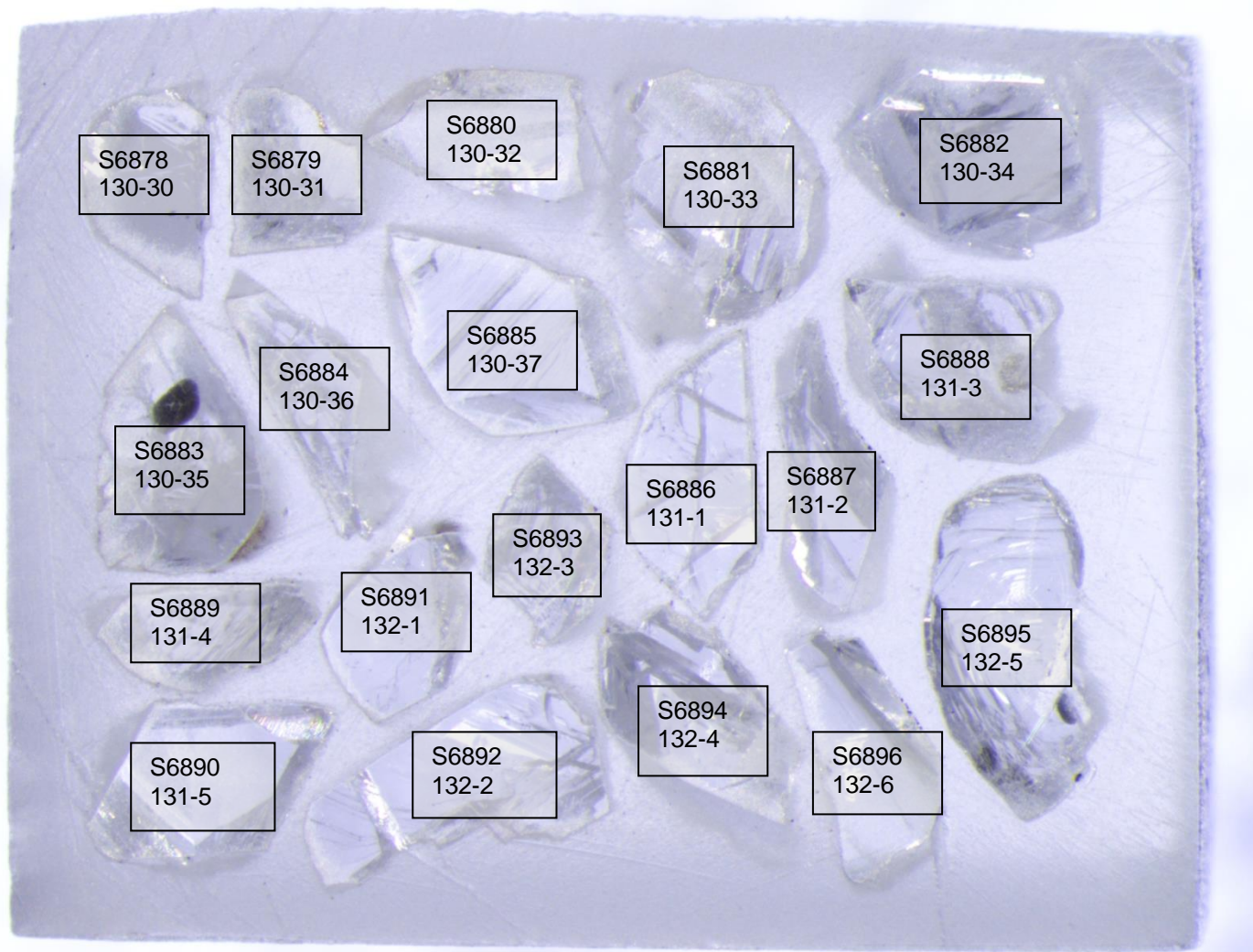




m1635:

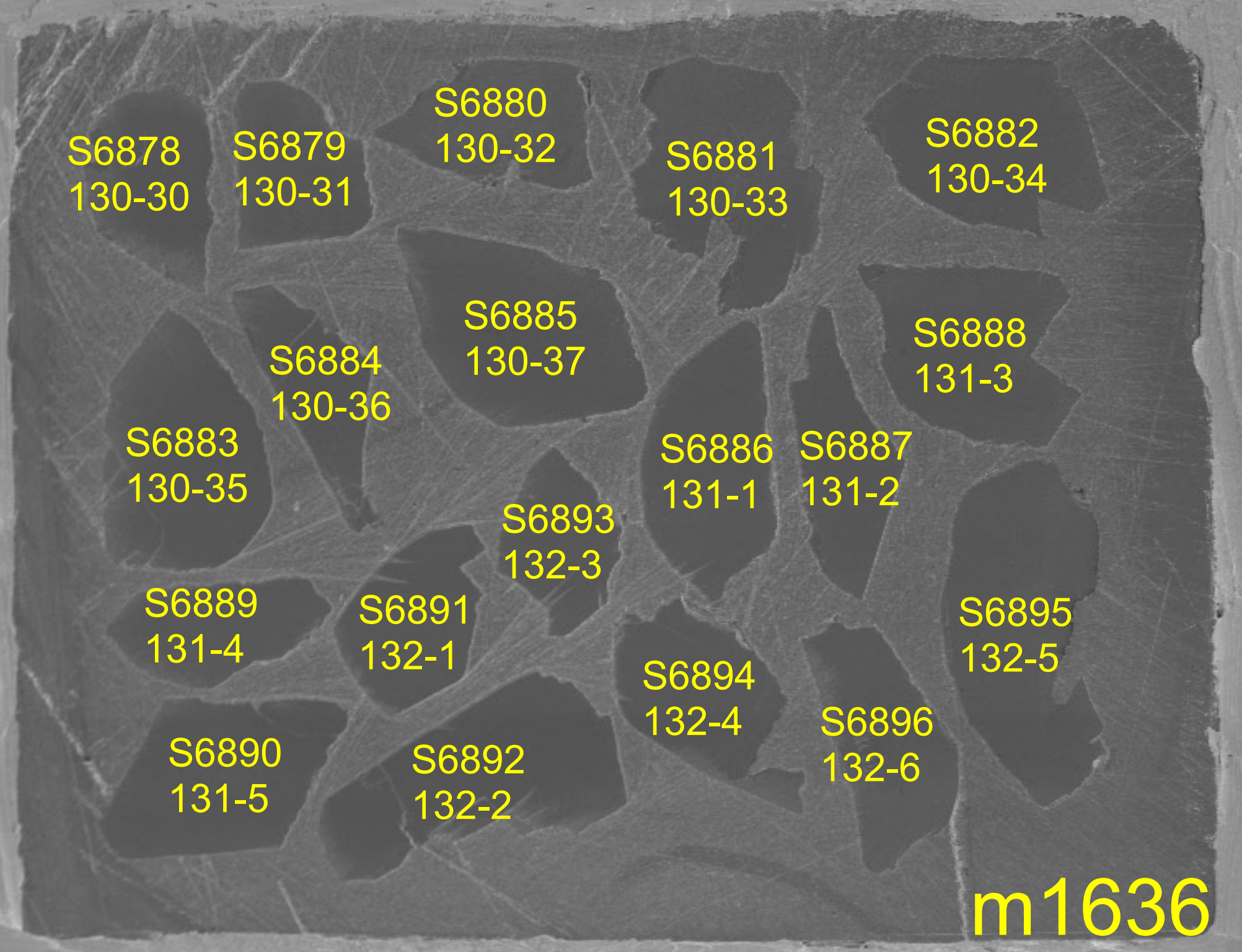
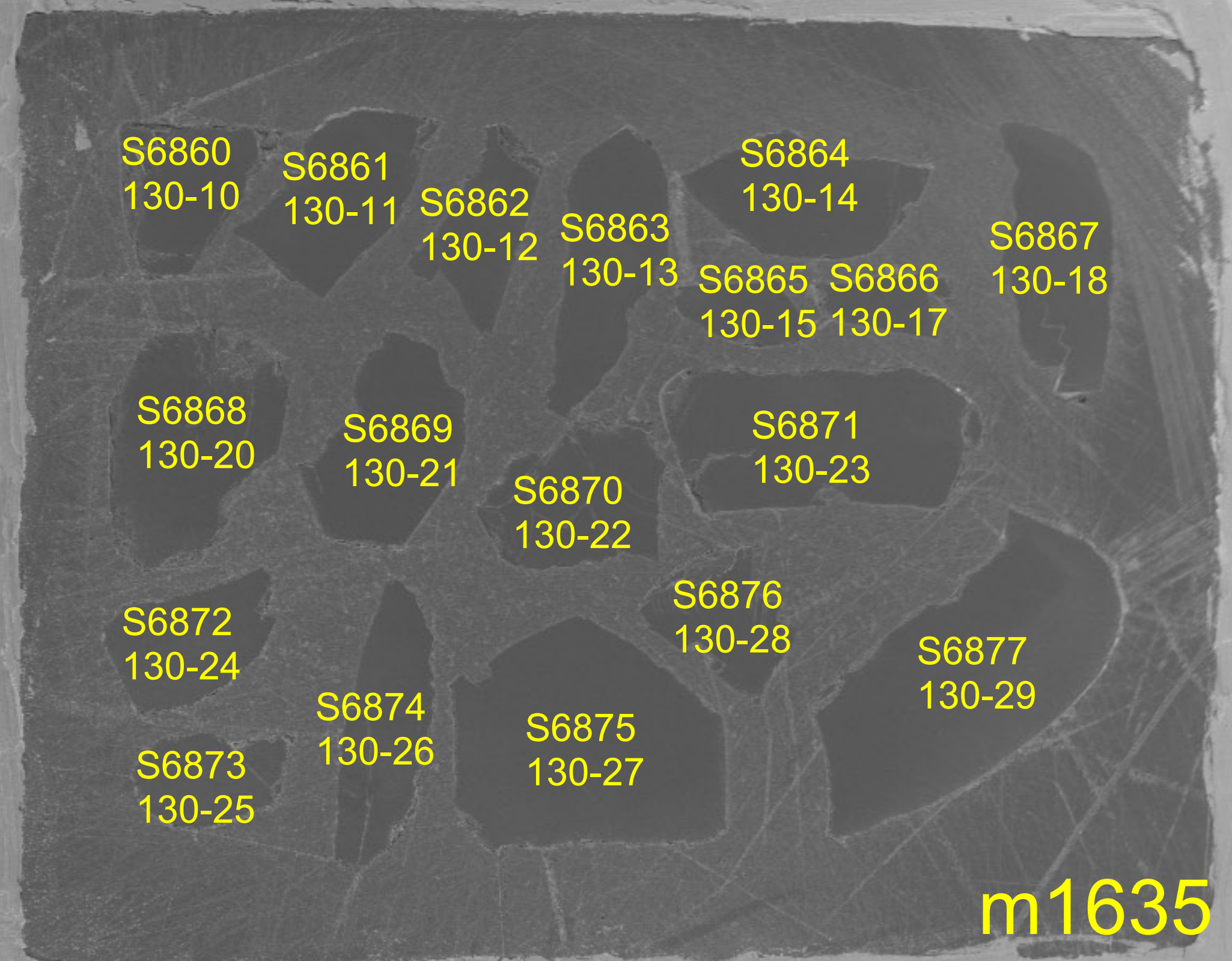
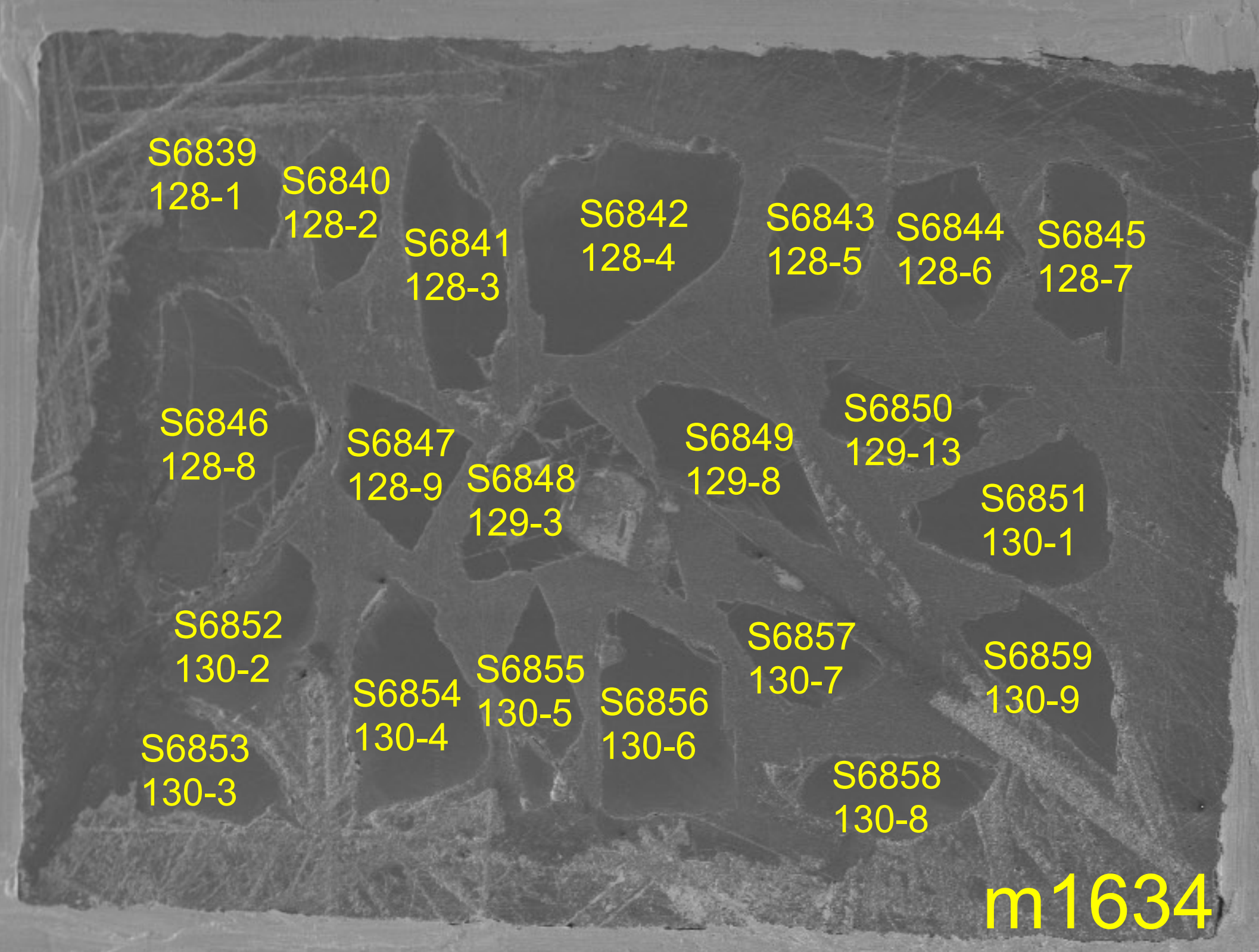


m1636:





M1642





S6839 128-1 S6840 128-2 S6841 128-3 S6842 128-4 S6843 128-5 S6844 128-6 S6845 128-7  
S6846 128-8 S6847 128-9 S6848 129-3 S6849 129-8 S6850 129-13 S6851 130-1  
S6852 130-2 S6853 130-3 S6854 130-4 S6855 130-5 S6856 130-6 S6857 130-7 S6858 130-8  
S6859 130-9

m1634

S6860 130-10 S6861 130-11 S6862 130-12 S6863 130-13 S6864 130-14 S6865 130-15 S6866 130-17 S6867 130-18  
S6868 130-20 S6869 130-21 S6870 130-22 S6871 130-23 S6872 130-24 S6873 130-25 S6874 130-26 S6875 130-27  
S6876 130-28 S6877 130-29

m1635

S6878 130-30 S6879 130-31 S6880 130-32 S6881 130-33 S6882 130-34 S6883 130-35 S6884 130-36 S6885 130-37 S6886 131-1 S6887 131-2 S6888 131-3 S6889 131-4 S6890 131-5 S6891 132-1 S6892 132-2 S6893 132-3 S6894 132-4 S6895 132-5 S6896 132-6

m1636

S0270G

S0233A5

1 mm\*

Mag = 50 X

WD = 43.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -713.9 pA

File Name = SEM20034\_M1642\_MAP\_CL\_1.tif



S0233A5



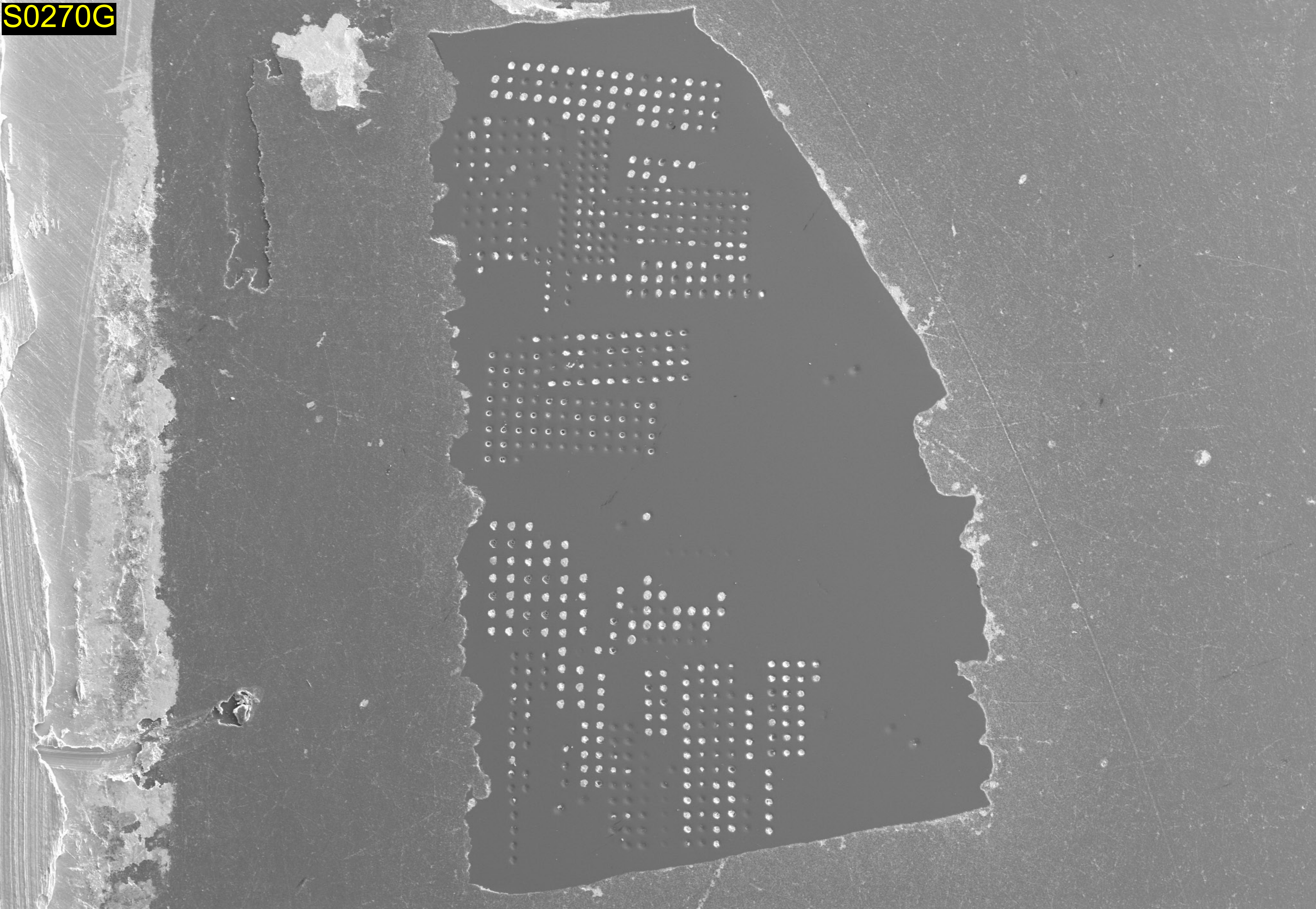


S0233A5



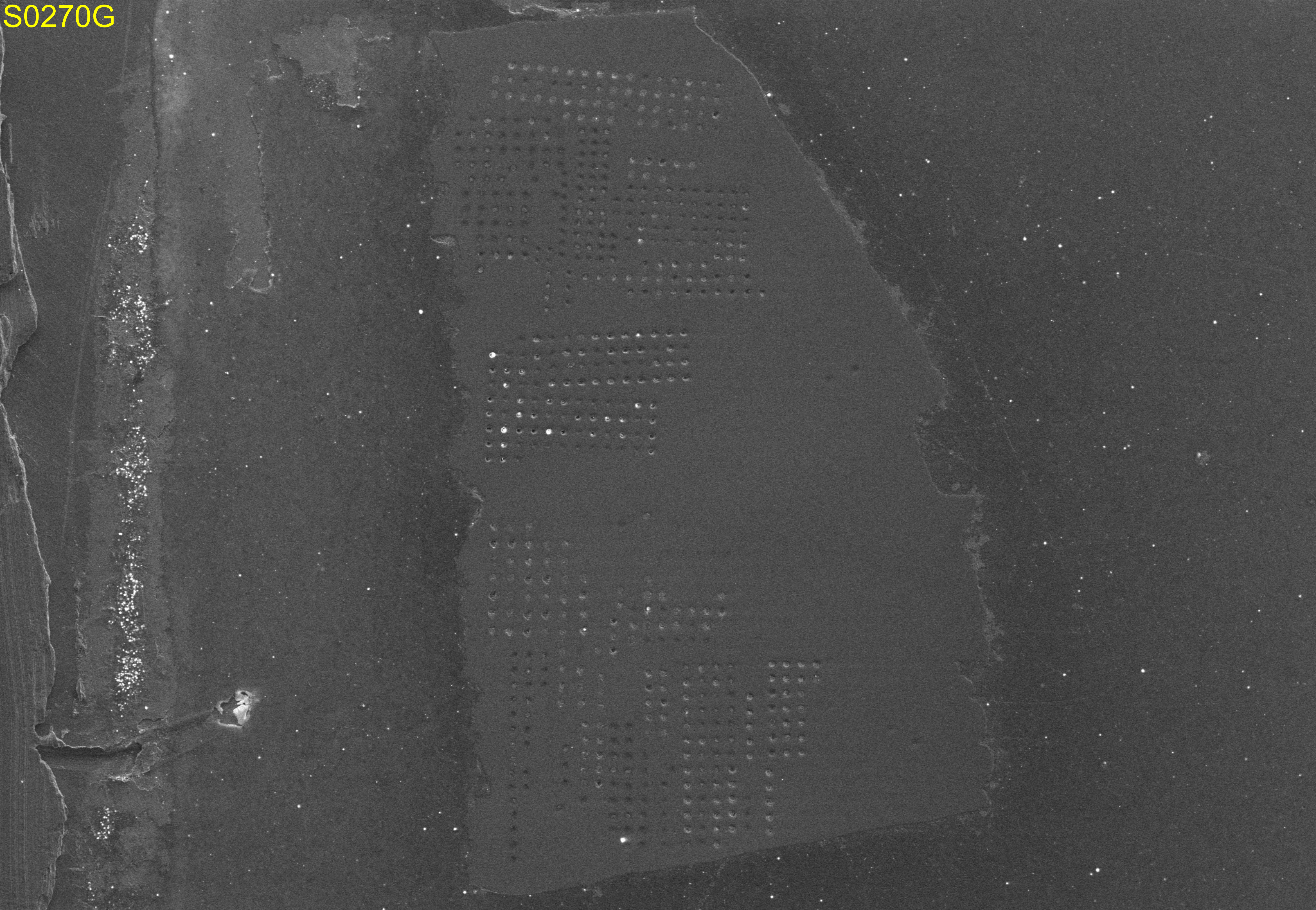


S0270G





S0270G





m1634

S6839  
128-1

S6840  
128-2

S6841  
128-3

S6842  
128-4

S6843  
128-5

S6844  
128-6

S6845  
128-7

S6846  
128-8

S6847  
128-9

S6848  
129-3

S6849  
129-8

S6850  
129-13

S6851  
130-1

S6852  
130-2

S6854  
130-4

S6855  
130-5

S6856  
130-6

S6857  
130-7

S6859  
130-9

S6853  
130-3

S6858  
130-8

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

Mag = 144 X

WD = 16.0 mm

Signal A = SE1

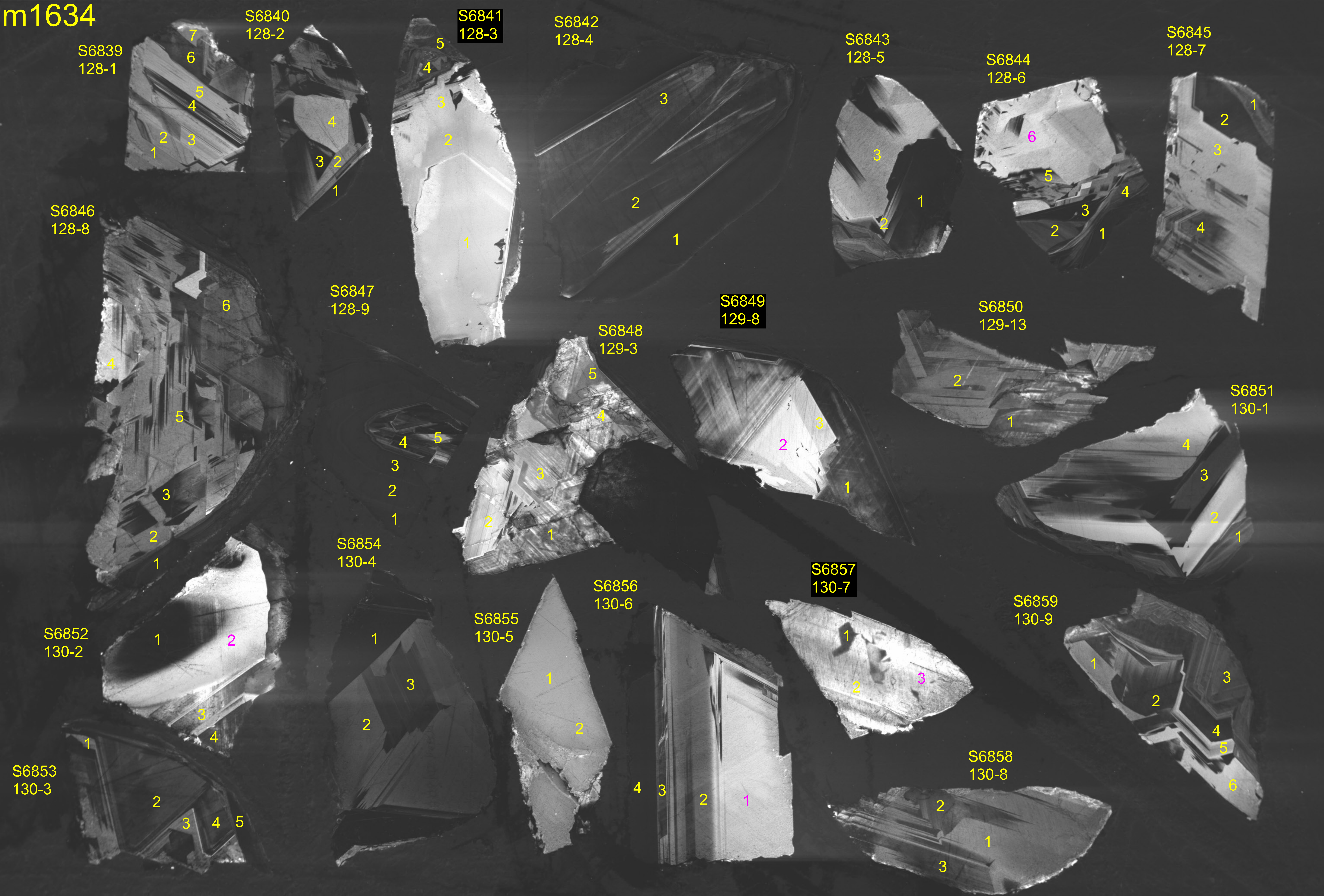
EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.66 nA

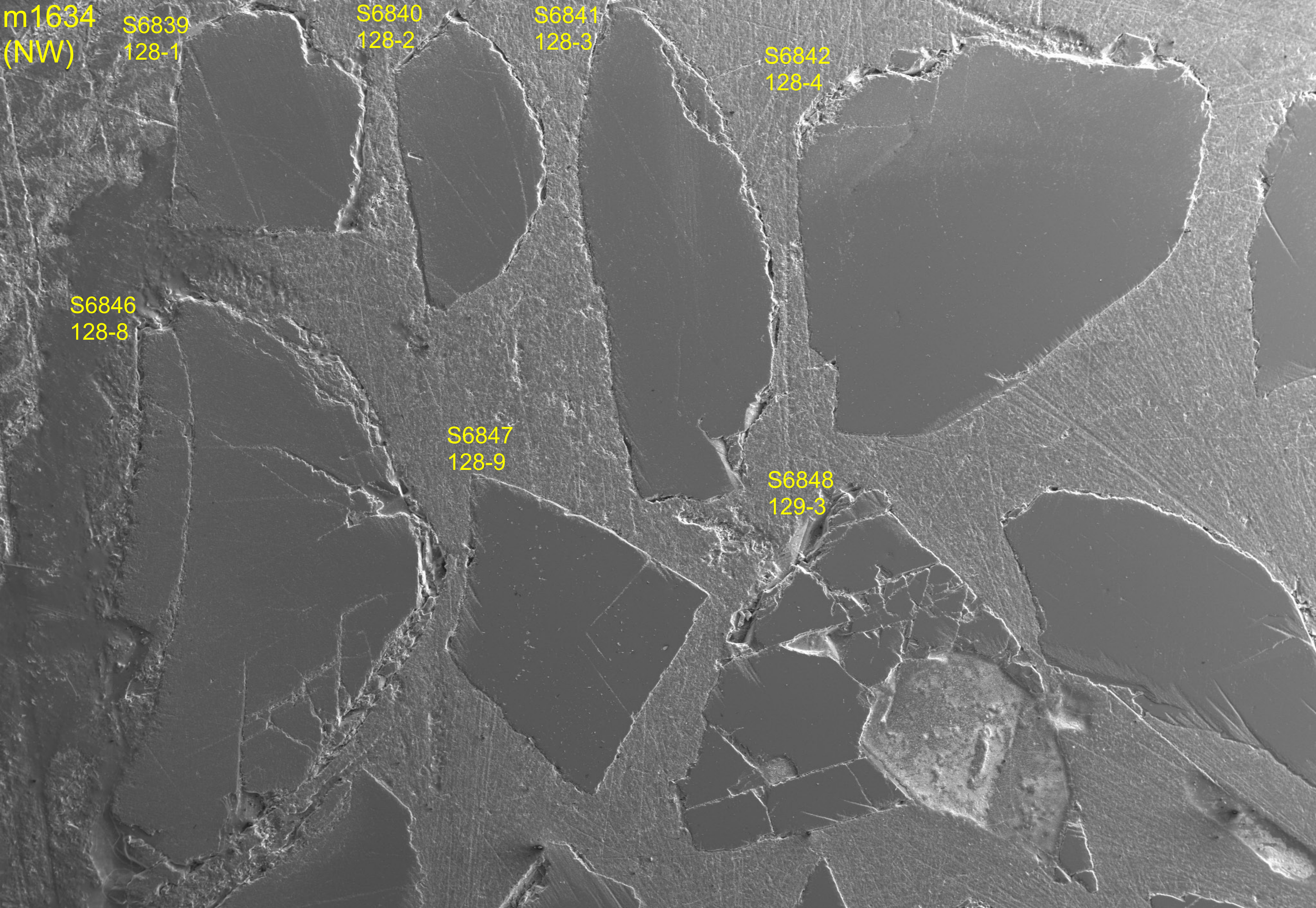
File Name = SEM20034\_M1642\_m1634\_SE\_1.tif



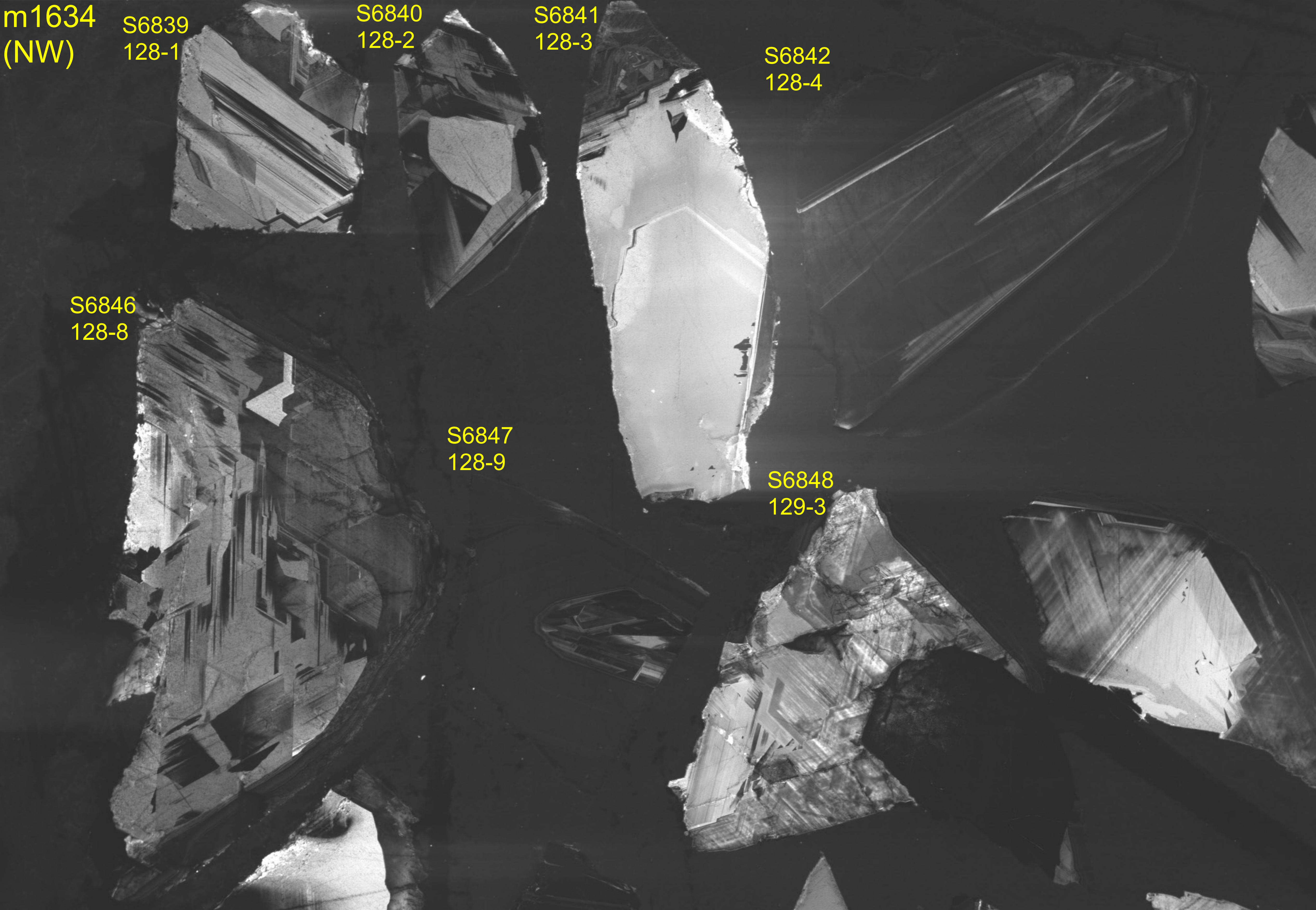
m1634



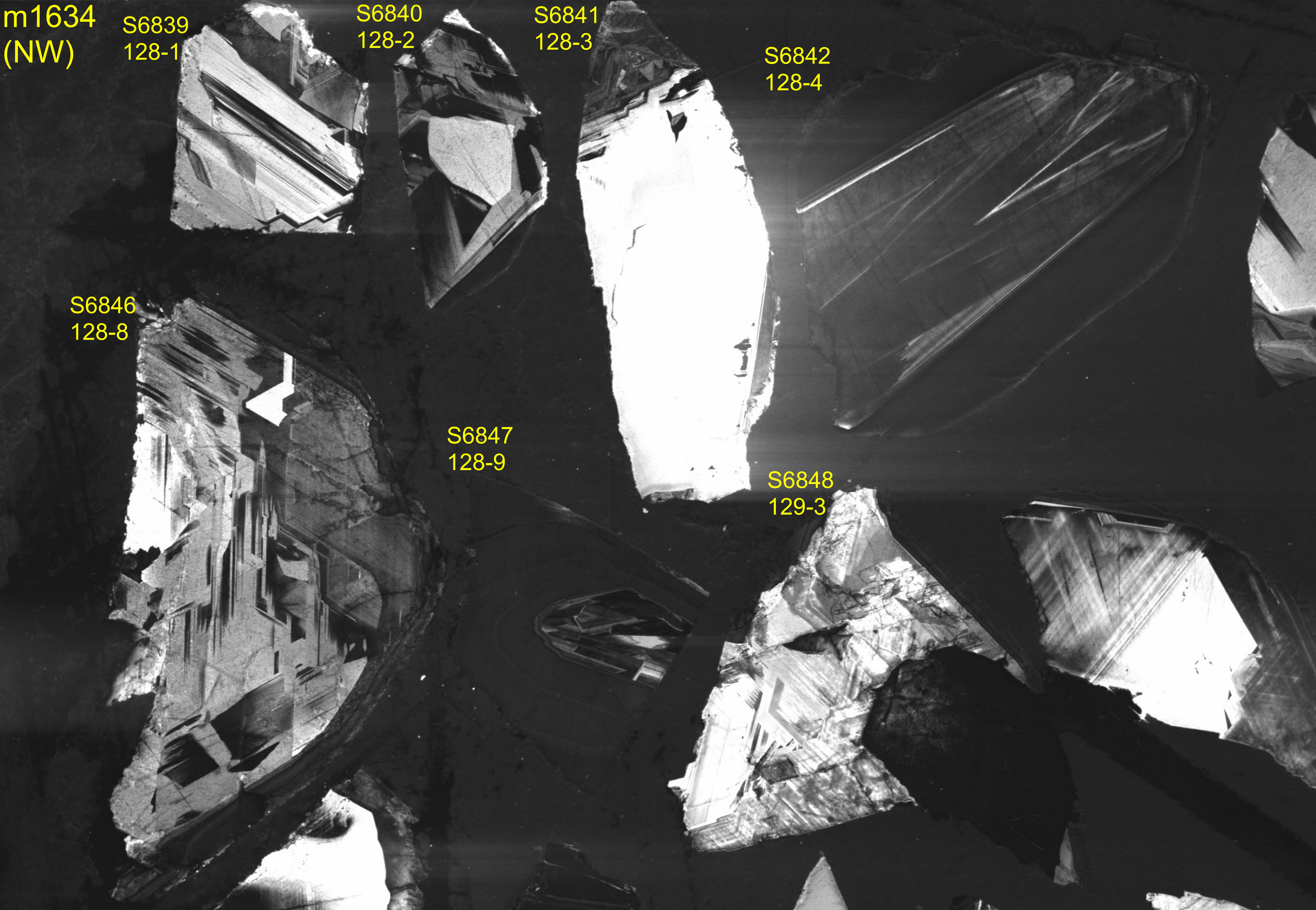




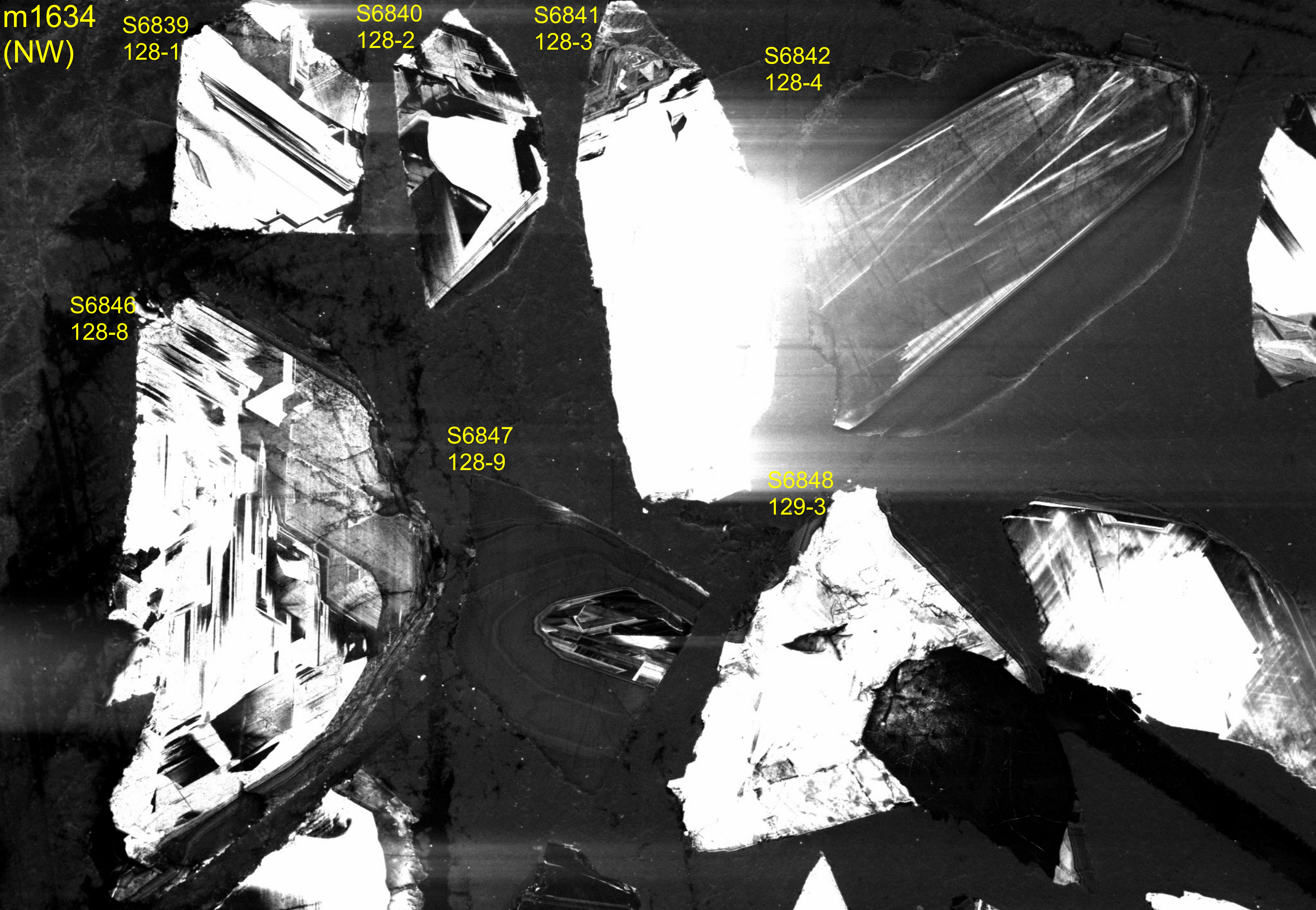














m1634  
(NE)

S6843  
128-5

S6844  
128-6

S6845  
128-7

S6849  
129-8

S6850  
129-13

S6851  
130-1

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

Mag = 240 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.69 nA

File Name = SEM20034\_M1642\_m1634\_SE\_7.tif



m1634  
(NE)

S6843  
128-5

S6844  
128-6

S6845  
128-7

S6849  
129-8

S6850  
129-13

S6851  
130-1

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

Mag = 240 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.67 nA

File Name = SEM20034\_M1642\_m1634\_CL\_8.tif



m1634  
(NE)

S6843  
128-5

S6844  
128-6

S6845  
128-7

S6849  
129-8

S6850  
129-13

S6851  
130-1

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

Mag = 240 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.69 nA

File Name = SEM20034\_M1642\_m1634\_CL\_7.tif



m1634  
(SW)

S6854  
130-4

S6855  
130-5

S6852  
130-2

S6853  
130-3

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

Mag = 312 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.42 nA

File Name = SEM20034\_M1642\_m1634\_SE\_10.tif



m1634  
(SW)

S6854  
130-4

S6855  
130-5

S6852  
130-2

S6853  
130-3



m1634  
(SW)

S6854  
130-4

S6855  
130-5

S6852  
130-2

S6853  
130-3



m1634  
(SE)

S6856  
130-6

S6857  
130-7

S6859  
130-9

S6858  
130-8



m1634  
(SE)

S6856  
130-6

S6857  
130-7

S6859  
130-9

S6858  
130-8

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

Mag = 276 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.79 nA

File Name = SEM20034\_M1642\_m1634\_CL\_14.tif



m1634  
(SE)

S6856  
130-6

S6857  
130-7

S6859  
130-9

S6858  
130-8

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

Mag = 276 X

WD = 16.5 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.46 nA

File Name = SEM20034\_M1642\_m1634\_CL\_13.tif



m1635

S6860  
130-10

S6861  
130-11

S6862  
130-12

S6863  
130-13

S6864  
130-14

S6867  
130-18

S6865  
130-15

S6866  
130-17

S6868  
130-20

S6869  
130-21

S6870  
130-22

S6871  
130-23

S6872  
130-24

S6876  
130-28

S6877  
130-29

S6874  
130-26

S6875  
130-27

S6873  
130-25

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

Mag = 140 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.30 nA

File Name = SEM20034\_M1642\_m1635\_SE\_1.tif



m1635

S6860  
130-10

S6862  
130-12

S6863  
130-13

S6864  
130-14

S6867  
130-18

S6861  
130-11

S6865  
130-15

S6866  
130-17

S6868  
130-20

S6869  
130-21

S6871  
130-23

S6870  
130-22

S6877  
130-29

S6872  
130-24

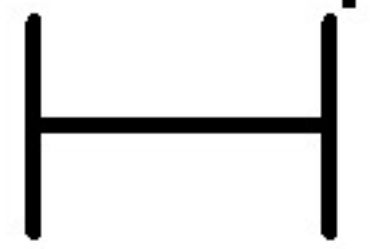
S6874  
130-26

S6875  
130-27

S6876  
130-28

S6873  
130-25

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



Mag = 140 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.88 nA

File Name = SEM20034\_M1642\_m1635\_CL\_2.tif



m1635  
(NW)

S6861  
130-11

S6862  
130-12

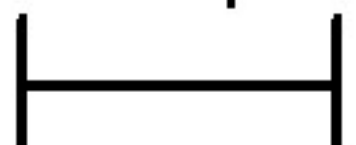
S6863  
130-13

S6860  
130-10

S6868  
130-20

S6869  
130-21

S6870  
130-22

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


Mag = 224 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.28 nA

File Name = SEM20034\_M1642\_m1635\_SE\_3.tif



m1635  
(NW)

S6861  
130-11

S6862  
130-12

S6863  
130-13

S6860  
130-10

S6868  
130-20

S6869  
130-21

S6870  
130-22

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

Mag = 224 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.21 nA

File Name = SEM20034\_M1642\_m1635\_CL\_4.tif



m1635  
(NW)

S6861  
130-11

S6862  
130-12

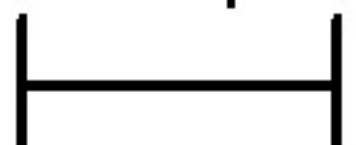
S6863  
130-13

S6860  
130-10

S6868  
130-20

S6869  
130-21

S6870  
130-22

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


Mag = 224 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.28 nA

File Name = SEM20034\_M1642\_m1635\_CL\_3.tif



m1635  
(NW)

S6861  
130-11

S6862  
130-12

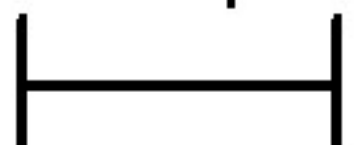
S6863  
130-13

S6860  
130-10

S6868  
130-20

S6869  
130-21

S6870  
130-22

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


Mag = 224 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.13 nA

File Name = SEM20034\_M1642\_m1635\_CL\_5.tif



m1635  
(NE)

S6864  
130-14

S6867  
130-18

S6865  
130-15

S6866  
130-17

S6871  
130-23



m1635  
(NE)

S6864  
130-14

S6867  
130-18

S6865  
130-15

S6866  
130-17

S6871  
130-23

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



Mag = 264 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.61 nA

File Name = SEM20034\_M1642\_m1635\_CL\_7.tif



m1635  
(NE)

S6864  
130-14

S6867  
130-18

S6865  
130-15

S6866  
130-17

S6871  
130-23

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



Mag = 264 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.64 nA

File Name = SEM20034\_M1642\_m1635\_CL\_6.tif



m1635  
(NE)

S6864  
130-14

S6867  
130-18

S6865  
130-15

S6866  
130-17

S6871  
130-23

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



Mag = 264 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.55 nA

File Name = SEM20034\_M1642\_m1635\_CL\_9.tif



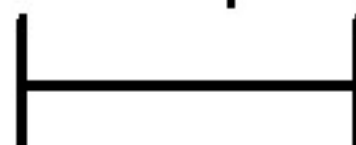
m1635  
(SW)

S6872  
130-24

S6874  
130-26

S6875  
130-27

S6873  
130-25

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


Mag = 240 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.56 nA

File Name = SEM20034\_M1642\_m1635\_SE\_10.tif



m1635  
(SW)

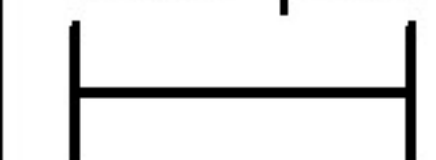
S6872  
130-24

S6874  
130-26

S6875  
130-27

S6873  
130-25

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



Mag = 240 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.55 nA

File Name = SEM20034\_M1642\_m1635\_CL\_11.tif



m1635  
(SW)

S6872  
130-24

S6874  
130-26

S6875  
130-27

S6873  
130-25



m1635  
(SE)

S6876  
130-28

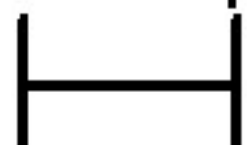
S6877  
130-29



m1635  
(SE)

S6876  
130-28

S6877  
130-29

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


Mag = 308 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.40 nA

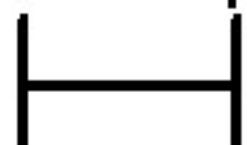
File Name = SEM20034\_M1642\_m1635\_CL\_13.tif



m1635  
(SE)

S6876  
130-28

S6877  
130-29

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


Mag = 308 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.33 nA

File Name = SEM20034\_M1642\_m1635\_CL\_14.tif



m1636

S6878  
130-30

S6879  
130-31

S6880  
130-32

S6881  
130-33

S6882  
130-34

S6885  
130-37

S6884  
130-36

S6883  
130-35

S6886  
131-1

S6888  
131-3

S6893  
132-3

S6891  
132-1

S6887  
131-2

S6895  
132-5

S6889  
131-4

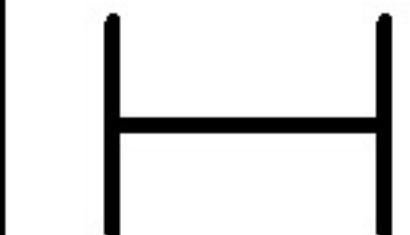
S6894  
132-4

S6896  
132-6

S6890  
131-5

S6892  
132-2

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



Mag = 130 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.38 nA

File Name = SEM20034\_M1642\_m1636\_SE\_1.tif



m1636

S6878  
130-30

S6879  
130-31  
3

S6880  
130-32  
4

S6881  
130-33

S6882  
130-34

S6885  
130-37

S6884  
130-36

S6883  
130-35

S6888  
131-3

S6886  
131-1

S6887  
131-2

S6895  
132-5

S6893  
132-3

S6891  
132-1

S6889  
131-4

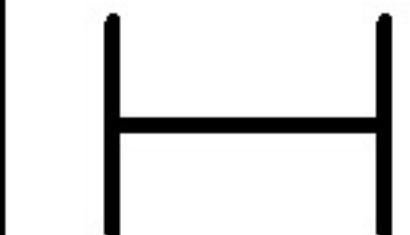
S6894  
132-4

S6896  
132-6

S6890  
131-5

S6892  
132-2

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



Mag = 130 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -1.29 nA

File Name = SEM20034\_M1642\_m1636\_CL\_2.tif



m1636  
(NW)

S6878  
130-30

S6879  
130-31

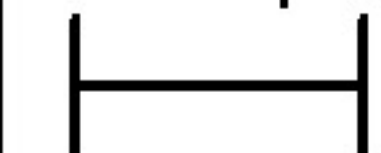
S6880  
130-32

S6885  
130-37

S6884  
130-36

S6883  
130-35

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



Mag = 206 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.34 nA

File Name = SEM20034\_M1642\_m1636\_SE\_3.tif



m1636  
(NW)

S6878  
130-30

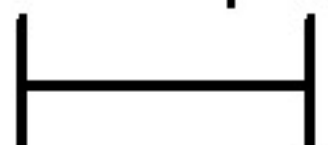
S6879  
130-31

S6880  
130-32

S6885  
130-37

S6884  
130-36

S6883  
130-35

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


Mag = 206 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.34 nA

File Name = SEM20034\_M1642\_m1636\_CL\_3.tif



m1636  
(NW)

S6878  
130-30

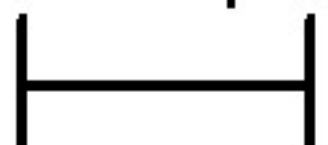
S6879  
130-31

S6880  
130-32

S6885  
130-37

S6884  
130-36

S6883  
130-35

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


Mag = 206 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.30 nA

File Name = SEM20034\_M1642\_m1636\_CL\_4.tif



m1636  
(NW)

S6878  
130-30

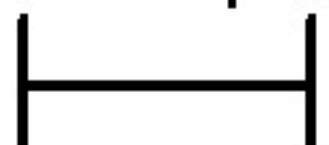
S6879  
130-31

S6880  
130-32

S6885  
130-37

S6884  
130-36

S6883  
130-35

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


Mag = 206 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.07 nA

File Name = SEM20034\_M1642\_m1636\_CL\_6.tif



m1636  
(NE)

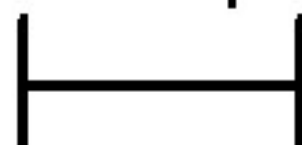
S6881  
130-33

S6882  
130-34

S6888  
131-3

S6887  
131-2

S6886  
131-1

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


Mag = 198 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.57 nA

File Name = SEM20034\_M1642\_m1636\_SE\_7.tif



m1636  
(NE)

S6881  
130-33

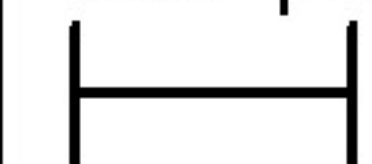
S6882  
130-34

S6888  
131-3

S6887  
131-2

S6886  
131-1

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



Mag = 198 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.48 nA

File Name = SEM20034\_M1642\_m1636\_CL\_8.tif



m1636  
(NE)

S6881  
130-33

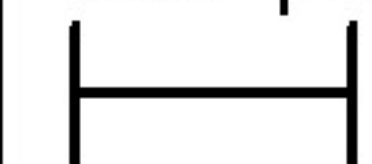
S6882  
130-34

S6888  
131-3

S6887  
131-2

S6886  
131-1

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



Mag = 198 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.57 nA

File Name = SEM20034\_M1642\_m1636\_CL\_7.tif



m1636  
(NE)

S6881  
130-33

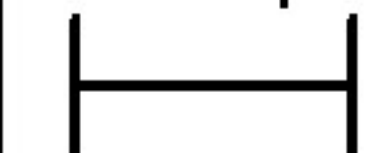
S6882  
130-34

S6888  
131-3

S6887  
131-2

S6886  
131-1

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



Mag = 198 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.52 nA

File Name = SEM20034\_M1642\_m1636\_CL\_9.tif



m1636  
(SW)

S6893  
132-3

S6891  
132-1

S6889  
131-4

S6892  
132-2

S6890  
131-5



m1636  
(SW)

S6893  
132-3

S6891  
132-1

S6889  
131-4

S6892  
132-2

S6890  
131-5



m1636  
(SW)

S6893  
132-3

S6891  
132-1

S6889  
131-4

S6892  
132-2

S6890  
131-5



m1636  
(SW)

S6893  
132-3

S6891  
132-1

S6889  
131-4

S6892  
132-2

S6890  
131-5



m1636  
(SE)

S6895  
132-5

S6894  
132-4

S6896  
132-6

200  $\mu\text{m}^*$   
|————|

Mag = 254 X

WD = 16.0 mm

Signal A = SE1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.46 nA

File Name = SEM20034\_M1642\_m1636\_SE\_15.tif



m1636  
(SE)

S6895  
132-5

S6894  
132-4

S6896  
132-6

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

Mag = 254 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.44 nA

File Name = SEM20034\_M1642\_m1636\_CL\_16.tif



m1636  
(SE)

S6895  
132-5

S6894  
132-4

S6896  
132-6

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

Mag = 254 X

WD = 16.0 mm

Signal A = Aux 1

EHT = 15.00 kV Date : 4 Nov 2020

Specimen I = -2.45 nA

File Name = SEM20034\_M1642\_m1636\_CL\_17.tif