C2043 N - (1) General Informations

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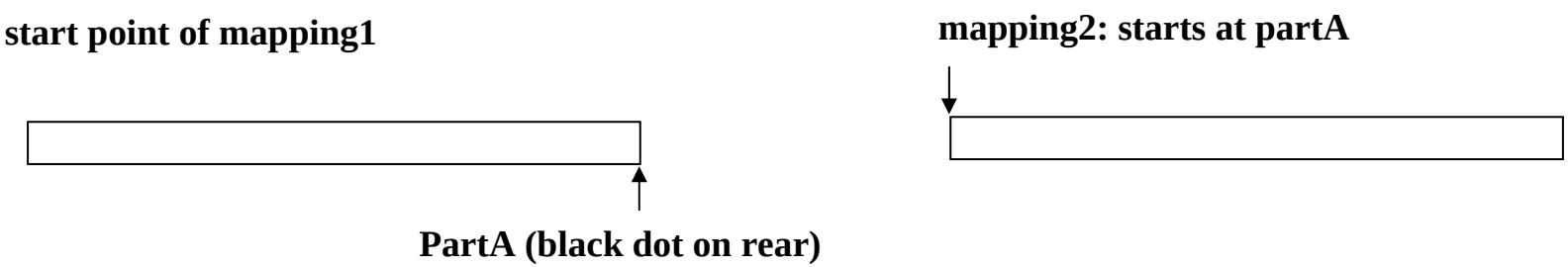
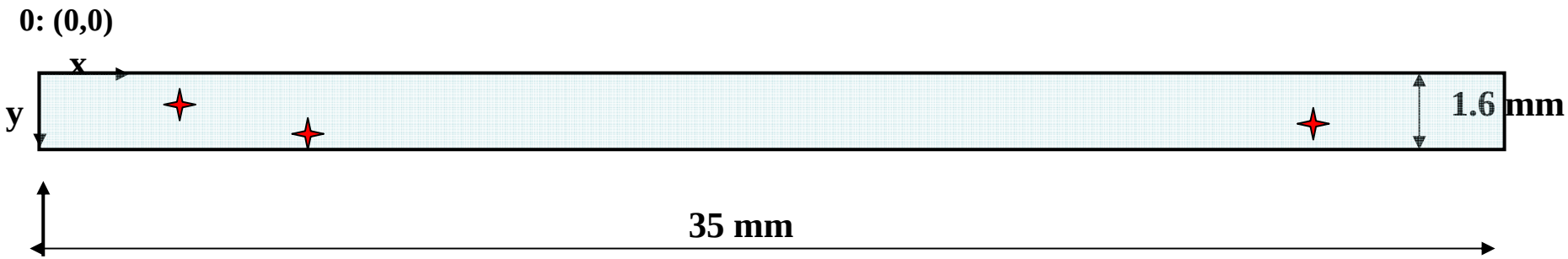
(mapping and chemical analysis performed in February 2006)

- Dimensions of the foil: ~ 35 mm* ~ 1.6 mm (S = 56 mm^2).
- SEM-FEG Hitachi S4700
-Search for craters at 20 kV and I = 10 μA
- G x 700.
- The sample was held with 2 strips of carbon double tape and had to be turned half way as explained below



(2) Craters localization

Crater #	1	2	3
x (mm)	29.63	2.94	5.95
y (mm)	0.8	0.38	1.07



A: (black dot on rear)

(3) Size distribution

Crater #	1	2	3
Diameter (μm)	1.76	1.47	0.275

Total area analyzed: S ~ 56 mm^2

$\Rightarrow$ Evaluated flux: Φ ~ 5.36 $10^4/m^2$

(4) Images of the craters

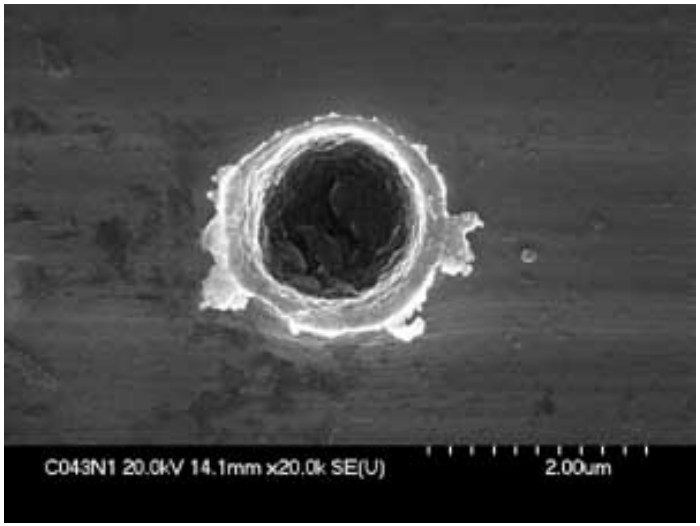


Figure 1: Crater # 1

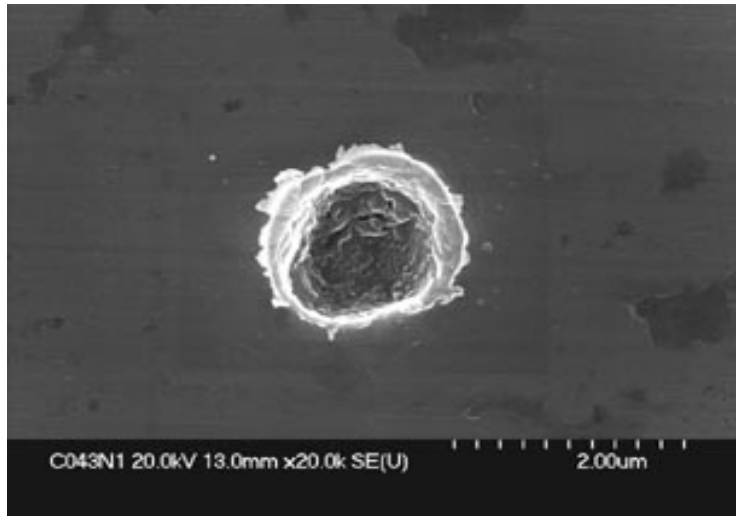


Figure 2: Crater # 2

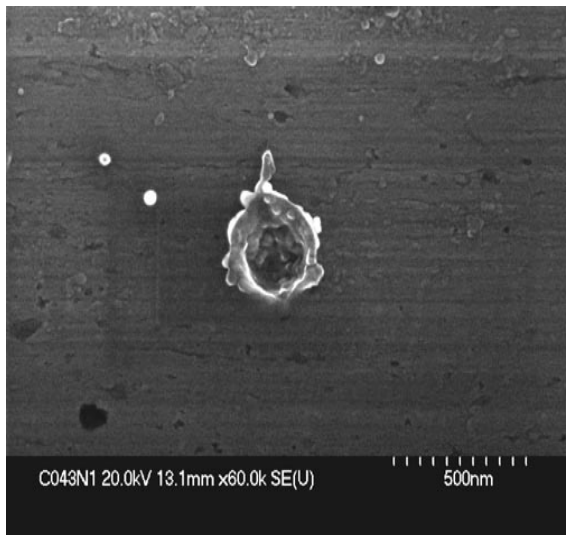


Figure 3: Crater # 3

(5) Composition data

Crater 1 : Elemental composition : Mg, Si, Fe

Crater 2 : very low abundances of Mg, Si and Fe ; S?

Crater 3 : no analysable residue

Acquisition conditions : 20kEV
100 sec counting