Sample C2086W,1

- One large crater.
- Diameter ~390 µm (projectile penetrated the foil).
- Crater was analyzed in two orientations (second measurement after 180° rotation) because of large topographic effects.
- One small region was analyzed in more detail (only images shown).
- Plots show atomic element abundances relative to silicon and normalized to CI meteoritic abundances.
- Tables show atomic element abundances relative to silicon (not normalized to CI).
- All data are shown
 - without blank correction
 - with blank correction assuming Al/Si being chondritic (CI)
 - with blank correction attributing all AI to the foil
- Blank composition was determined from regions surrounding the crater.

Large crater on C2086W,1



C2086W,1 after Ar-sputtering









Total SI

50 scans 512×512 pixels 32 shots/(pixel×scan) 500×500 µm²

C2086W,1 detail after Ar-sputtering



100 scans 171×192 pixels 64 shots/(pixel×scan)

53.4×60 µm²

C2086W,1 after Ar-sputtering, sample rotated









Total SI

50 scans 512×512 pixels 32 shots/(pixel×scan) 500×500 µm²

Bulk chemistry of crater rim



Bulk chemistry of crater rim

C2086W,1								C2086W,1	C2086W,1 (rotated)					
no correction			CI correction		full subtraction			no correcti	no correction		CI correction		full subtraction	
Abd./	/Si	Error	Abd./Si	Error	Abd./Si	Error		Abd./Si	Error	Abd./Si	Error	Abd./Si	Error	
0.0	00009	0.00002	< 0.00007		< 0.00007		Li	0.00013	0.00004	0.00011	0.00005	0.00011	0.00005	
	5.8	0.2	4.1	0.4	4.0	0.4	С	9.8	0.5	<1.0				
	11.8	0.9	5.9	1.4	5.8	1.4	0	11.8	1.4	5.4	1.6	5.1	1.6	
	0.330	0.001	0.455	0.001	0.457	0.007	Na	1.200	0.003	1.276	0.003	1.28	0.02	
	0.274	0.002	0.386	0.002	0.395	0.007	Mg	0.481	0.003	0.519	0.004	0.529	0.009	
	1.00	0.01	1.00	0.02	1.00	0.02	Si	1.00	0.01	1.00	0.01	1.00	0.02	
0	.0254	0.0002	0.0159	0.0003	0.0163	0.0004	K	0.0238	0.0003	0.0173	0.0004	0.0175	0.0005	
0	.0537	0.0005	0.0452	0.0007	0.0452	0.0010	Ca	0.0465	0.0008	0.0448	0.0008	0.045	0.001	
0.0	00003	0.00002	0.00004	0.00003	0.00004	0.00003	Sc							
0	.0043	0.0003	0.0007	0.0005	0.0006	0.0005	Ti	0.0033	0.0004	0.0027	0.0004	0.0026	0.0004	
0.0	00005	0.00002					V							
0	.0034	0.0002	0.0011	0.0003	0.0010	0.0003	Cr	0.0021	0.0003	0.0012	0.0003	0.0012	0.0003	
0	.0145	0.0004	0.0146	0.0007	0.0152	0.0008	Mn	0.0071	0.0005	0.0056	0.0006	0.0058	0.0006	
	0.259	0.003	0.369	0.004	0.390	0.008	Fe	0.455	0.006	0.492	0.006	0.52	0.01	
							Co							
	0.010	0.002	0.013	0.003	0.013	0.003	Ni	0.008	0.003	0.008	0.003	0.008	0.003	
0.00)1752	0.0004	< 0.002		< 0.002		Cu							