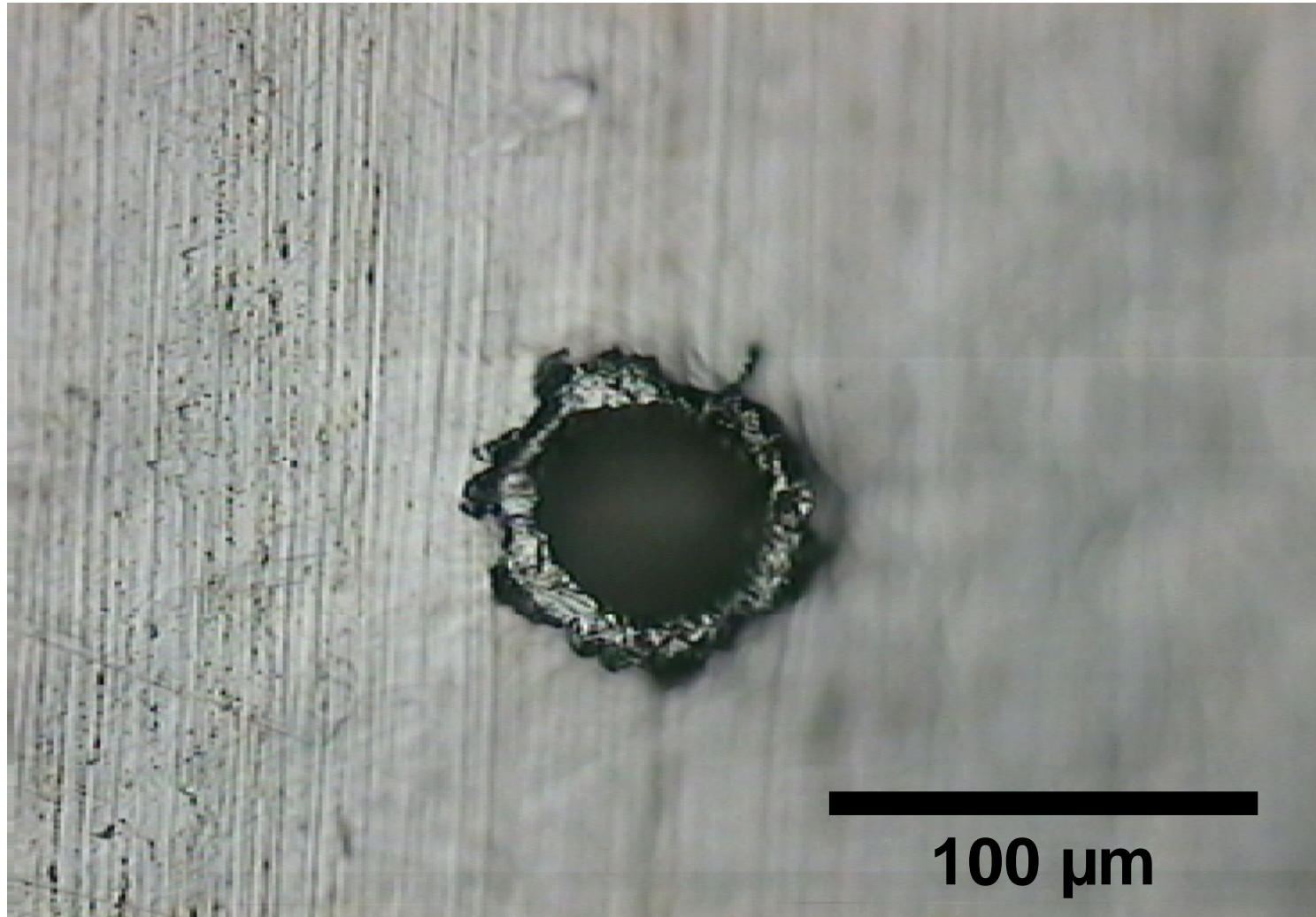


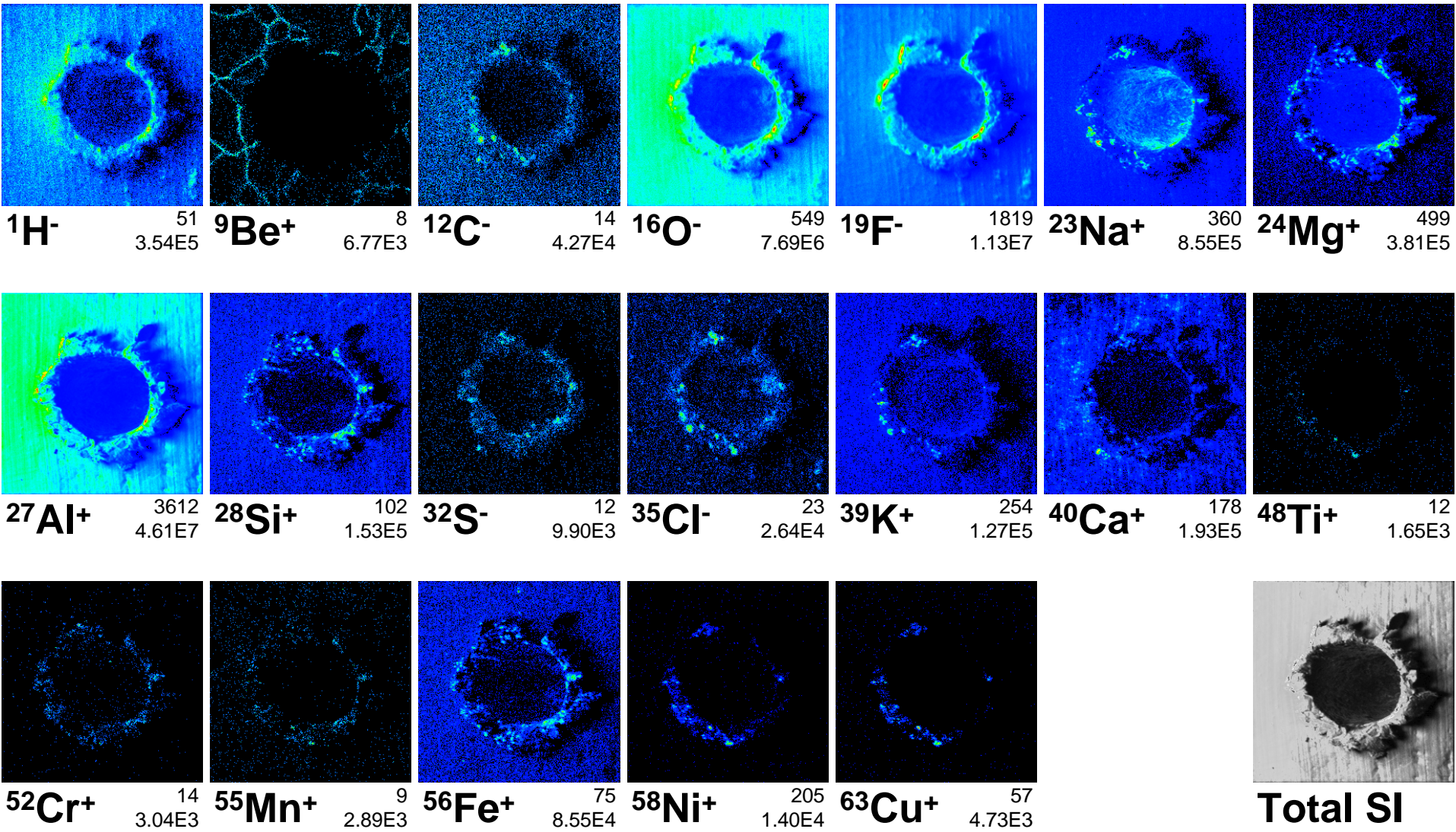
# Sample C2009N,1

- One large crater.
- Diameter ~65  $\mu\text{m}$ .
- One Ni,Cu-rich region was analyzed separately.
- 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 Al to the foil
- Blank composition was determined from regions surrounding the crater.

# Large crater on C2009N,1



# C2009N,1 after Ar-sputtering

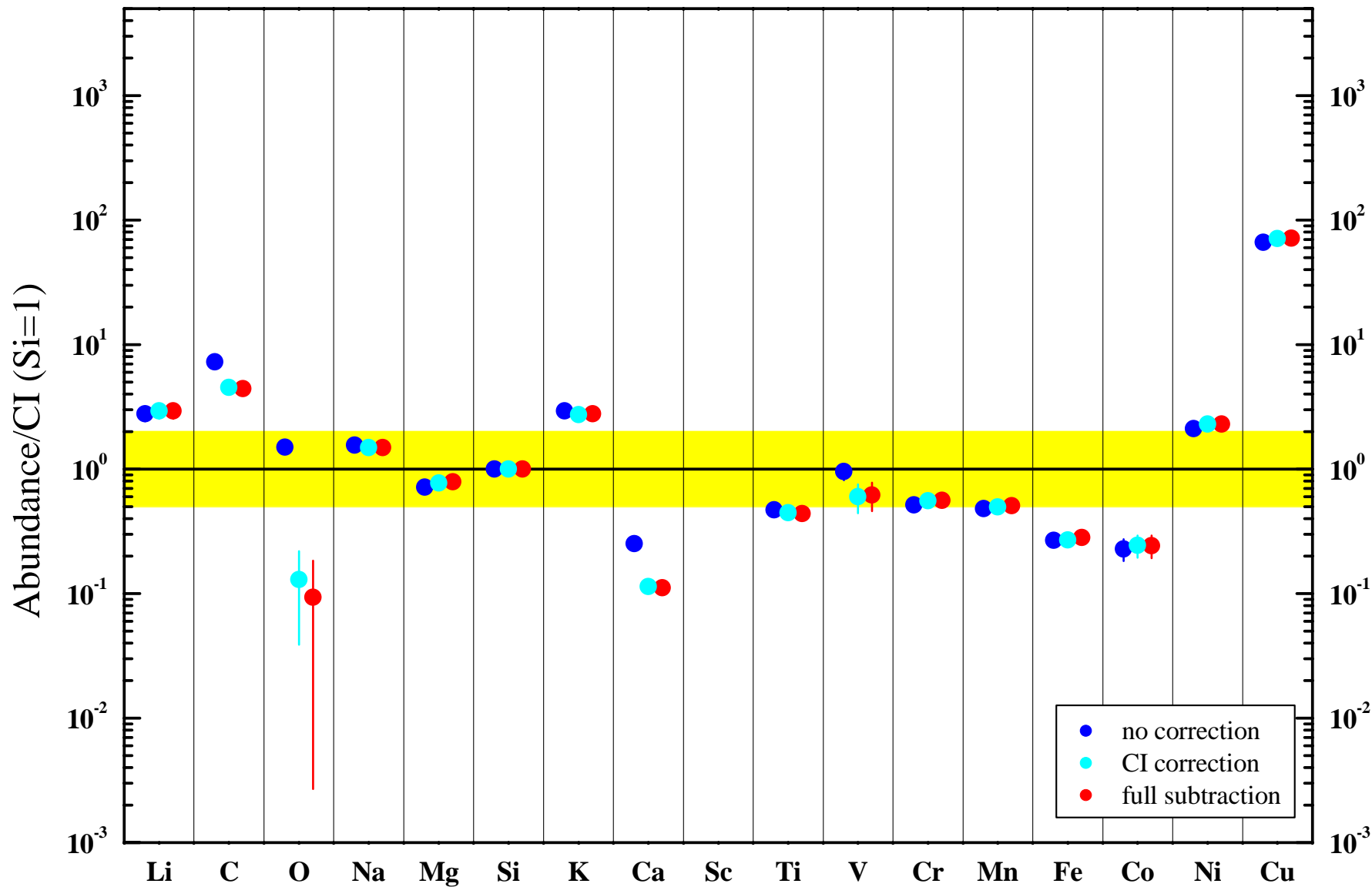


100 scans  
246x246 pixels  
64 shots/(pixelxscan)

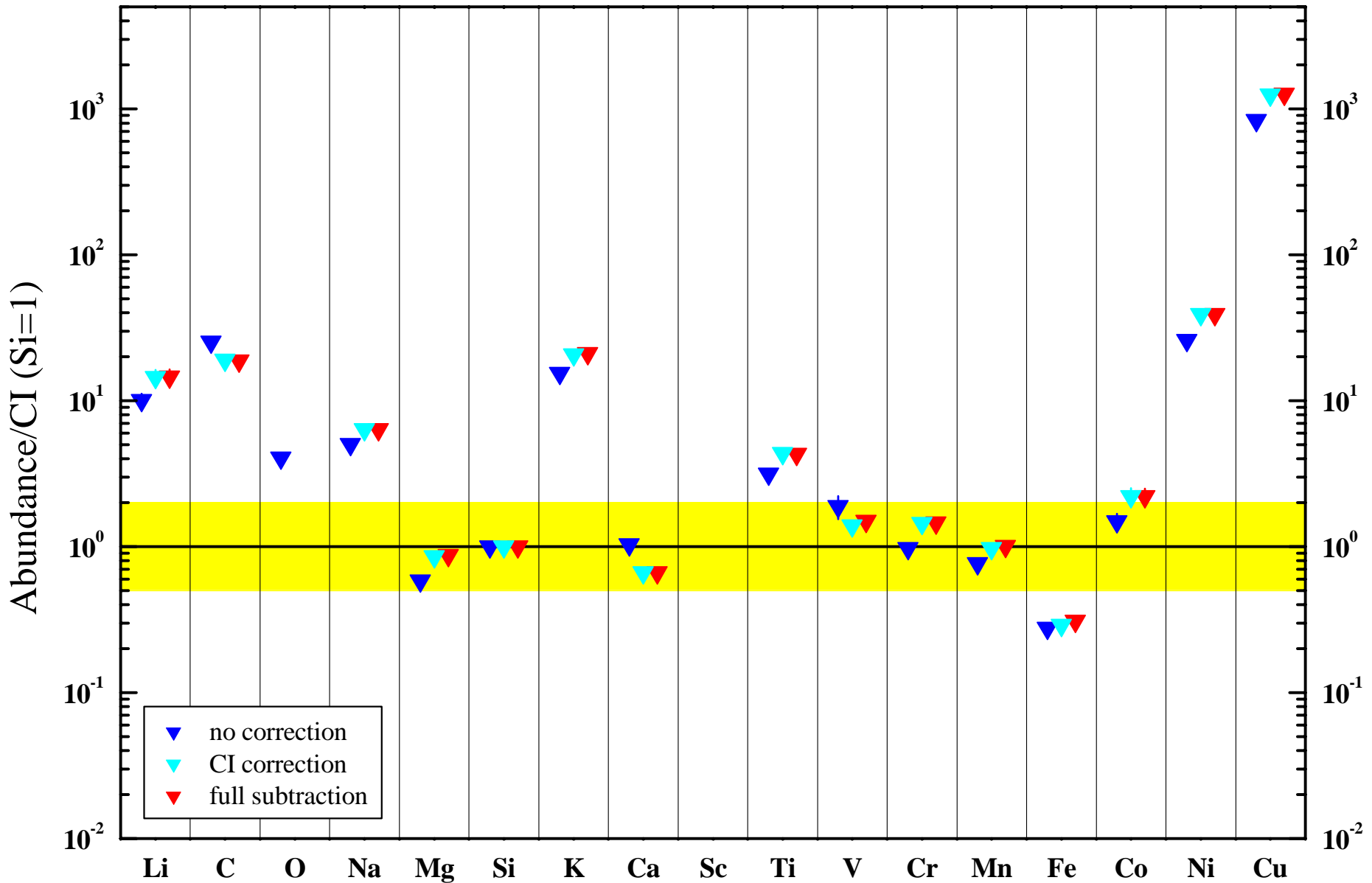


120x120  $\mu\text{m}^2$

# Bulk chemistry of crater rim



# Bulk chemistry of crater rim (Ni-rich)



# Bulk chemistry of crater rim

	C2009N,1					
	no correction		Cl correction		full subtraction	
	Abd./Si	Error	Abd./Si	Error	Abd./Si	Error
Li	0.00016	0.00002	0.00017	0.00002	0.00017	0.00002
C	5.5	0.2	3.4	0.2	3.4	0.2
O	11.4	0.6	0.99	0.69	0.71	0.69
Na	0.0895	0.0004	0.0854	0.0004	0.0853	0.0009
Mg	0.752	0.002	0.816	0.002	0.830	0.008
Si	1.00	0.01	1.00	0.01	1.00	0.01
K	0.0109	0.0001	0.0102	0.0001	0.0103	0.0001
Ca	0.0153	0.0002	0.0069	0.0002	0.0068	0.0002
Sc						
Ti	0.0011	0.0001	0.0011	0.0001	0.0011	0.0001
V	0.00027	0.00004	0.00017	0.00004	0.00018	0.00005
Cr	0.0069	0.0002	0.0075	0.0002	0.0075	0.0003
Mn	0.0045	0.0002	0.0046	0.0002	0.0047	0.0002
Fe	0.230	0.008	0.231	0.009	0.243	0.009
Co	0.0005	0.0001	0.0006	0.0001	0.0005	0.0001
Ni	0.104	0.003	0.114	0.003	0.113	0.003
Cu	0.034	0.001	0.037	0.001	0.037	0.001

	C2009N,1 (Ni-rich)					
	no correction		Cl correction		full subtraction	
	Abd./Si	Error	Abd./Si	Error	Abd./Si	Error
Li	0.0006	0.0001	0.0008	0.0001	0.0008	0.0001
C	19.2	0.5	14.4	0.8	14.3	0.9
O	31.1	1.8				
Na	0.288	0.001	0.365	0.002	0.366	0.008
Mg	0.615	0.003	0.903	0.004	0.921	0.021
Si	1.00	0.01	1.00	0.02	1.00	0.03
K	0.0576	0.0004	0.0769	0.0006	0.0785	0.0018
Ca	0.0630	0.0007	0.0405	0.0011	0.0405	0.0014
Sc						
Ti	0.0076	0.0004	0.0106	0.0007	0.0105	0.0007
V	0.0005	0.0001	<0.0004		<0.0004	
Cr	0.0131	0.0005	0.0194	0.0008	0.0196	0.0009
Mn	0.0072	0.0004	0.0091	0.0006	0.0094	0.0006
Fe	0.239	0.003	0.249	0.005	0.266	0.008
Co	0.0034	0.0004	0.0050	0.0007	0.0050	0.0007
Ni	1.28	0.01	1.93	0.02	1.93	0.05
Cu	0.434	0.008	0.650	0.012	0.655	0.019