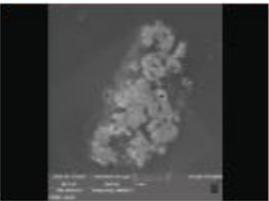
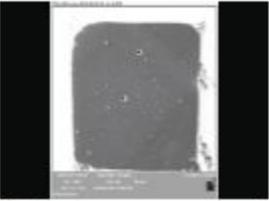
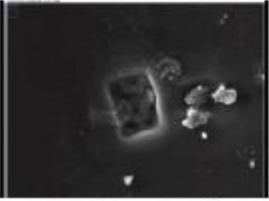
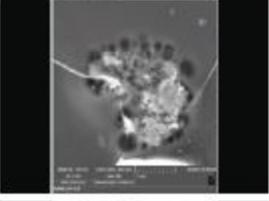
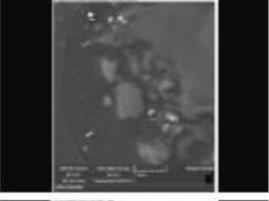
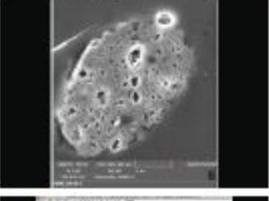
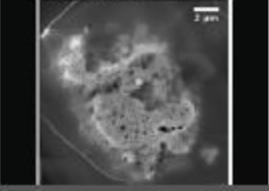


# Stardust SEM Bullet Survey Volume 1

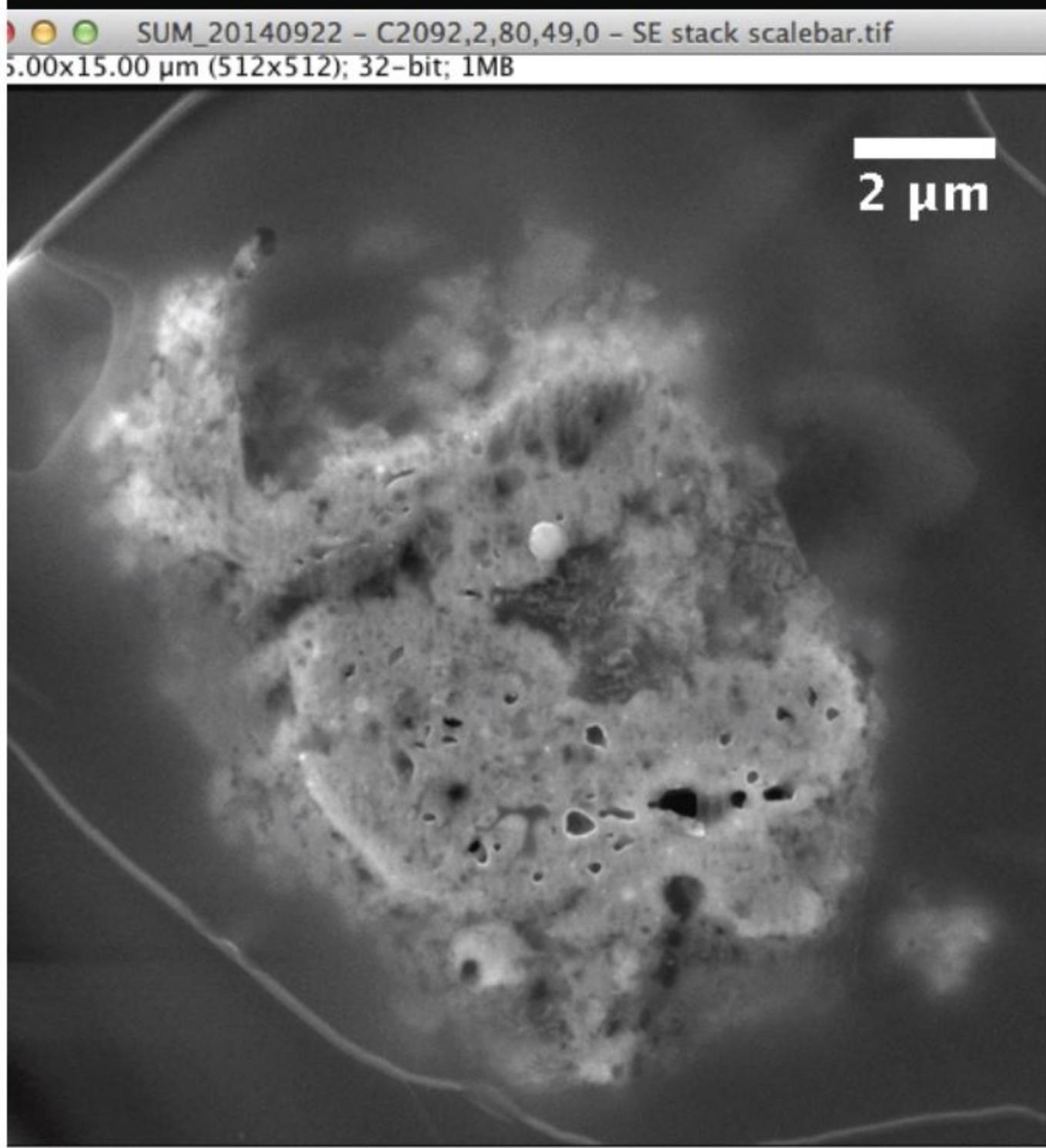
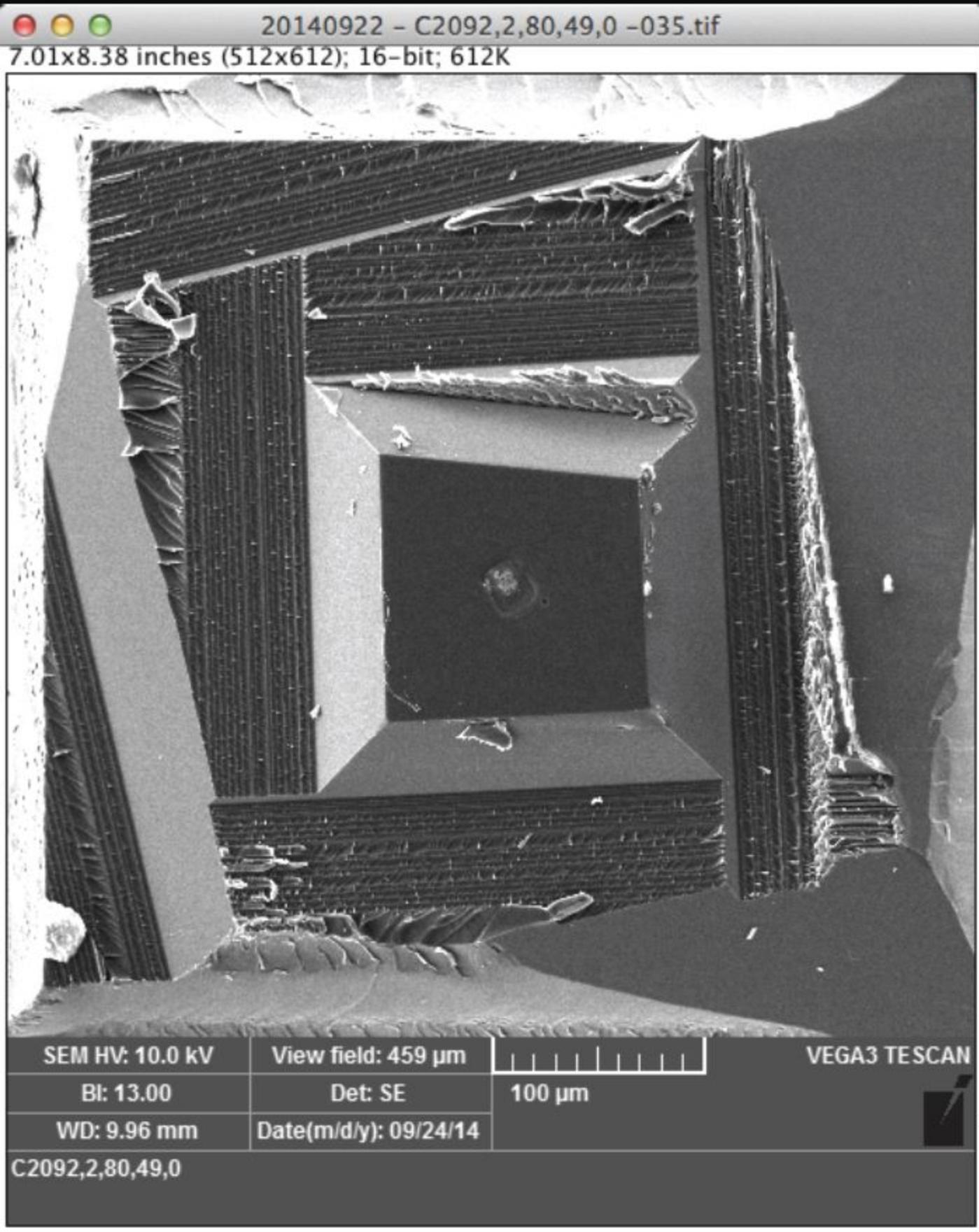
Zack Gainsforth

22 Sep 2014

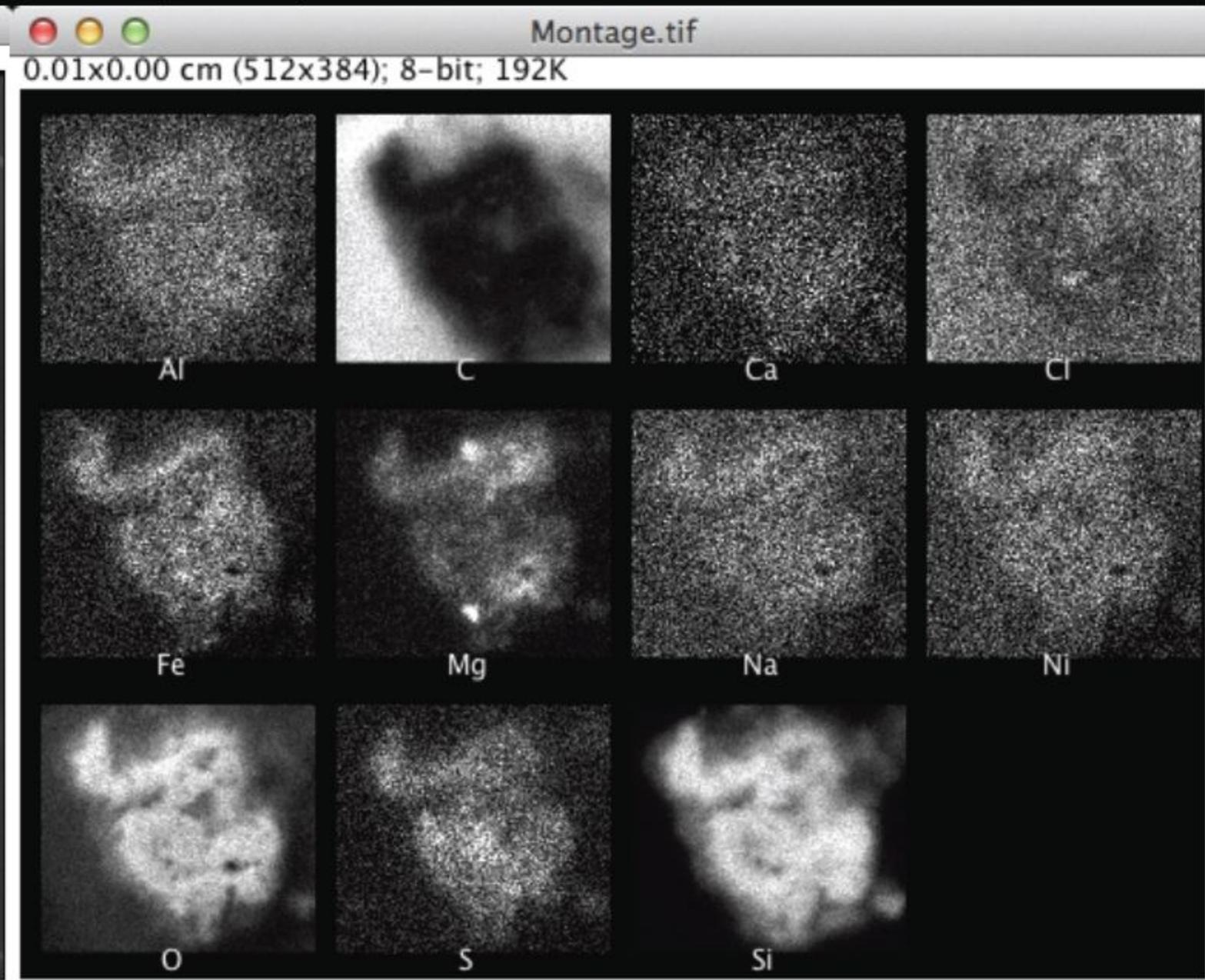
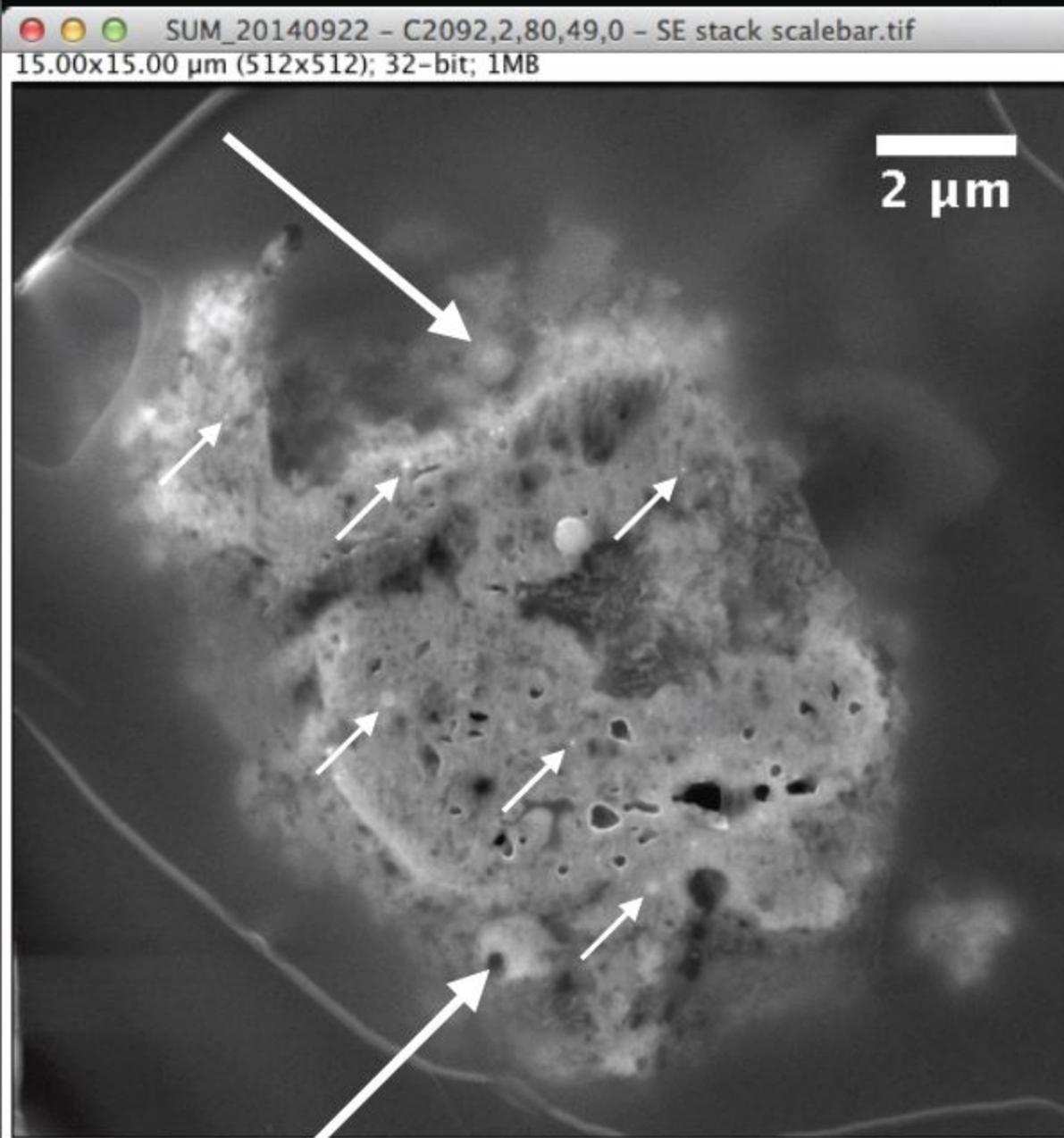
# Summary

| Bullet          | Image   | EDS | Summary   | Recommend SIMS? |
|-----------------|---|-----|---|-----------------|
| C2004,1,44,4,0  |    | Y   | Material clearly visible. Fine grained.                       | Y               |
| FC12,0,16,1,0   |    | N   | Nothing visible.  | N               |
| FC3,0,2,2,0     |   | N   | Material visible, but likely altered by previous experiment.  | N               |
| C2054,0,35,16,0 |  | N   | Material visible, possibly altered by previous experiment     | N               |
| C2044,2,41,3,0  |  | Y   | Material visible. Heterogeneous assembly of different phases. | Y               |
| C2092,2,80,46,0 |  | Y   | Aerogel visible, not clear if much track is present.          | Y               |
| C2092,2,80,48,0 |  | Y   | Material clearly visible. Fine grained.                       | Y               |
| C2092,2,80,49,0 |  | Y   | Material clearly visible. Fine grained.                       | Y               |

# C2092,2,80,49,0



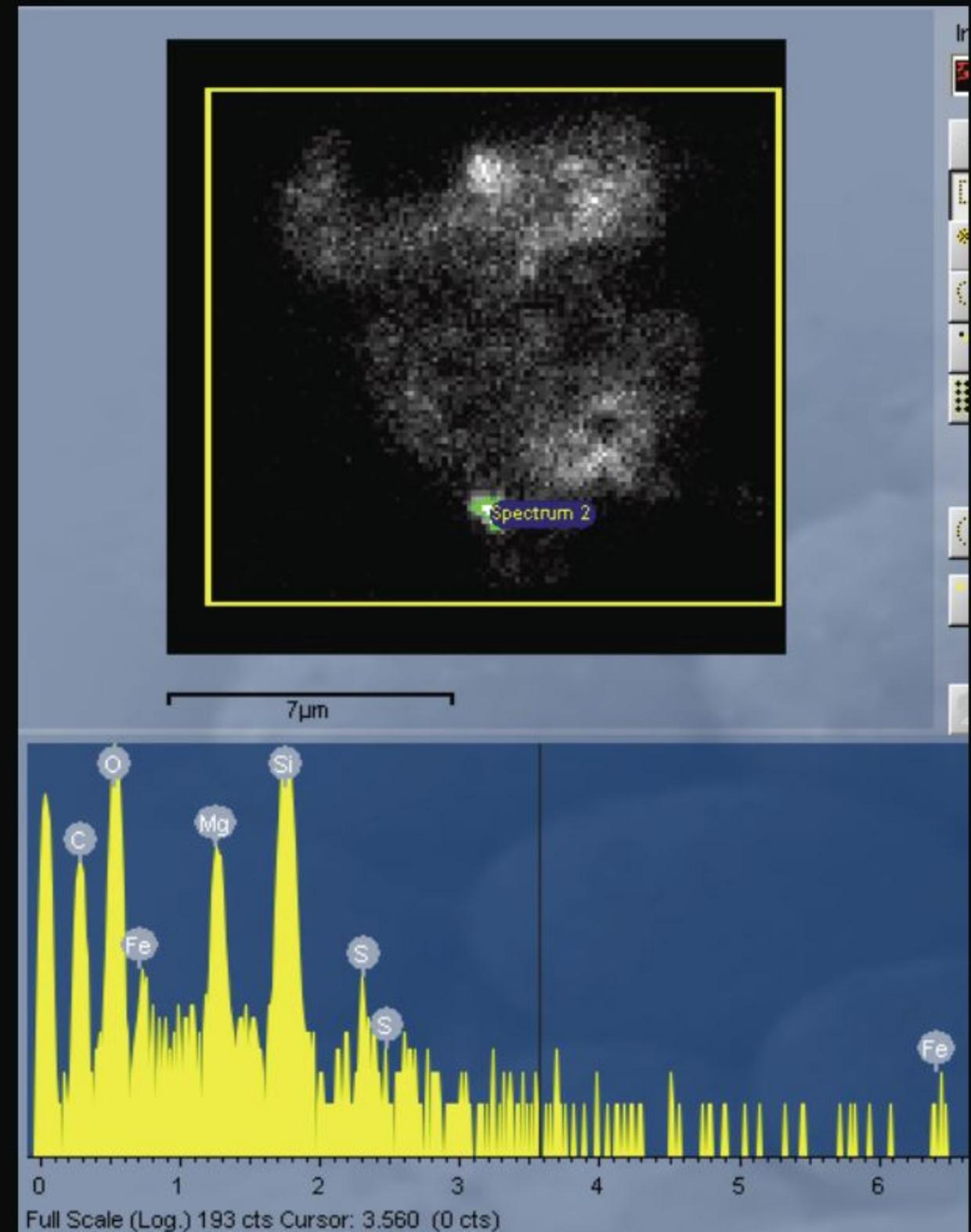
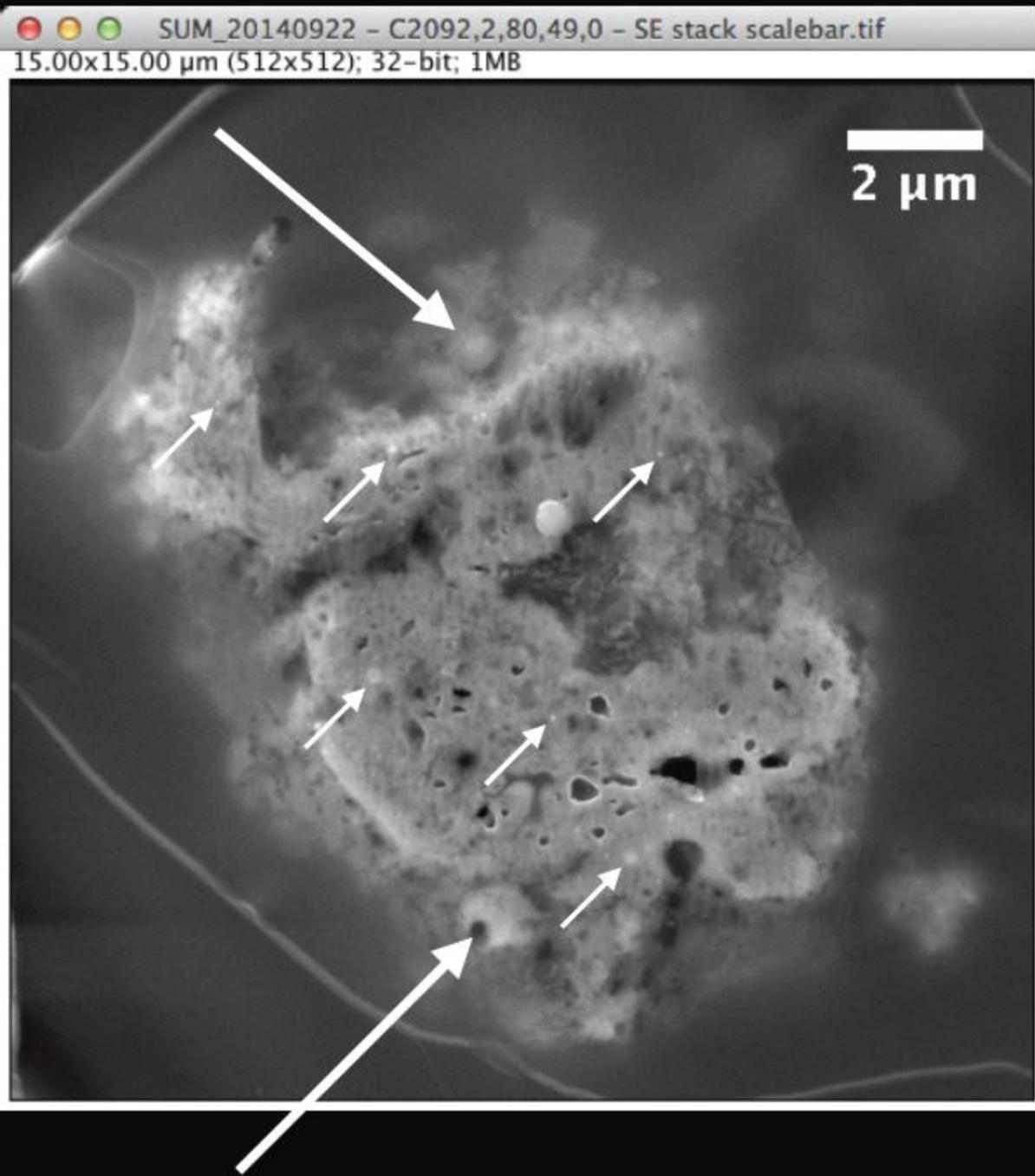
# C2092,2,80,49,0 - EDS



The big arrows mark out two Mg grains.

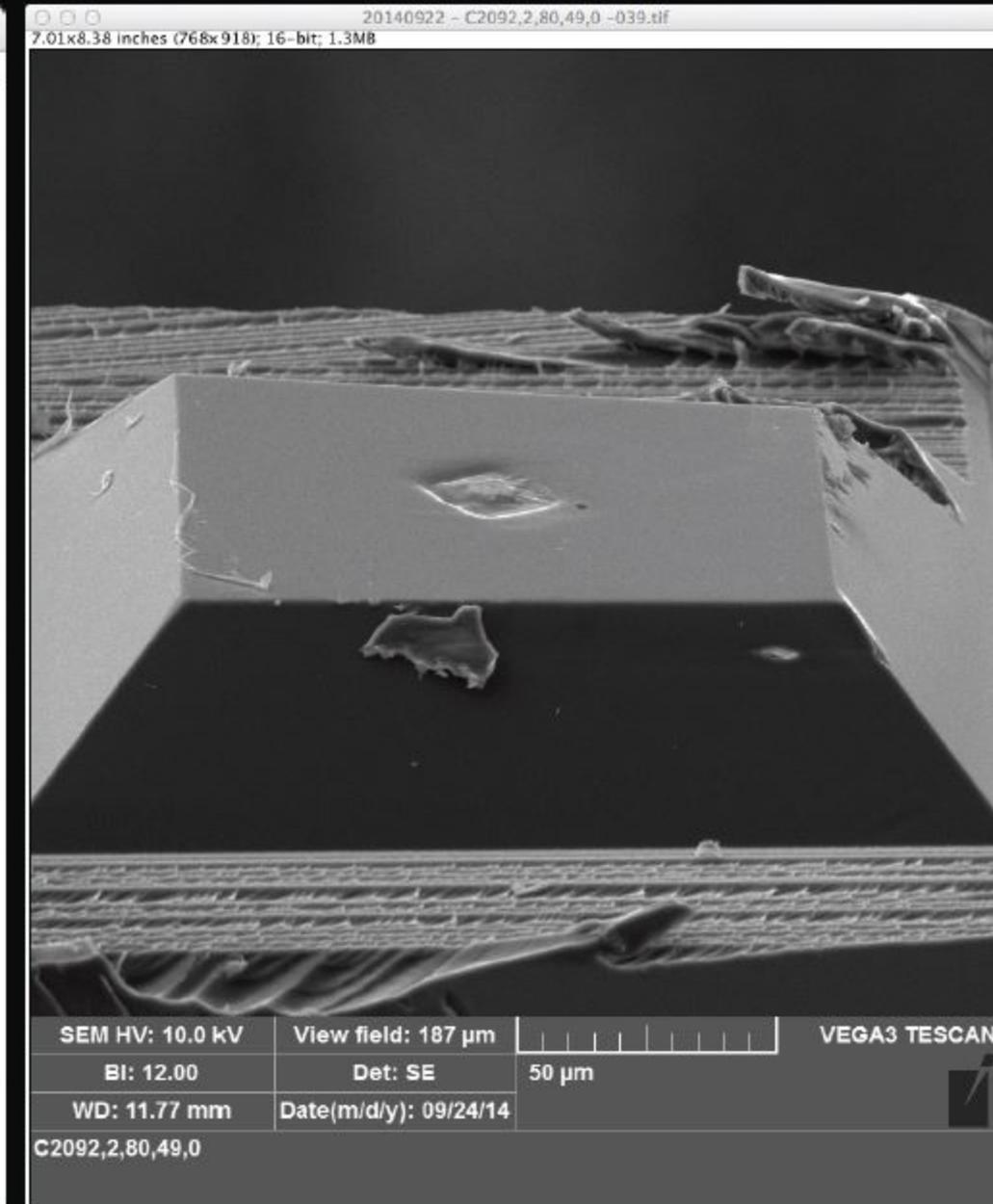
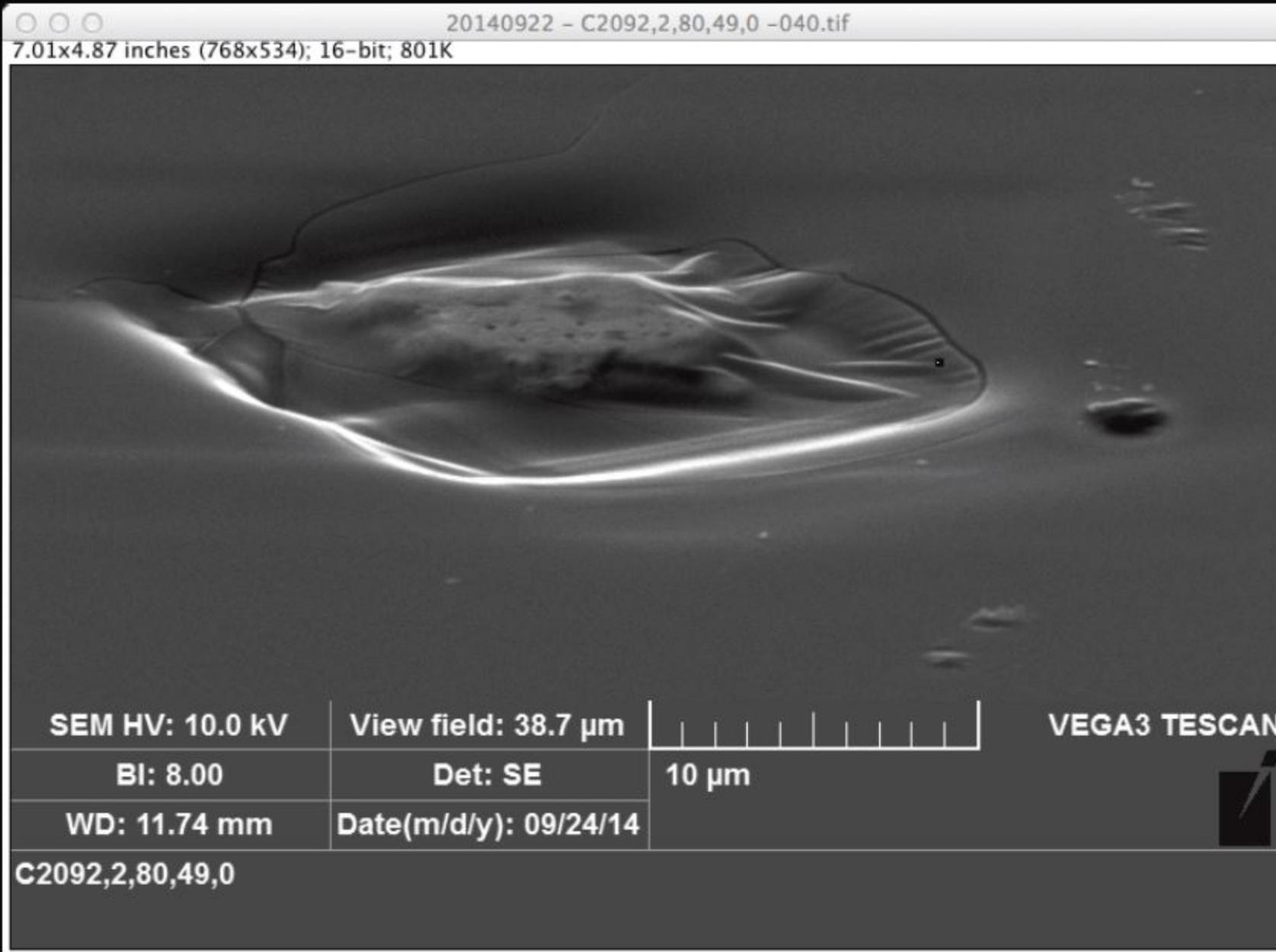
The little arrows also point out some other grains which are probably intact, but too small to see in the EDS.

# C2092,2,80,49,0 - EDS



The bottom Mg hot-spot is pretty much Mg + Fe. Ballpark Mg#=70 (+/-20)

# C2092,2,80,49,0 - After EDS



Fun hunt: can you find the dimple introduced by my EDS, not the previous experiments before the sample came to us? Hint, my box has the same rotation as the image, the previous raster is the obvious diamond shape.