CCN and Microscopy Summary for ISDAC Golden Day (4/26/08-4/27/08)

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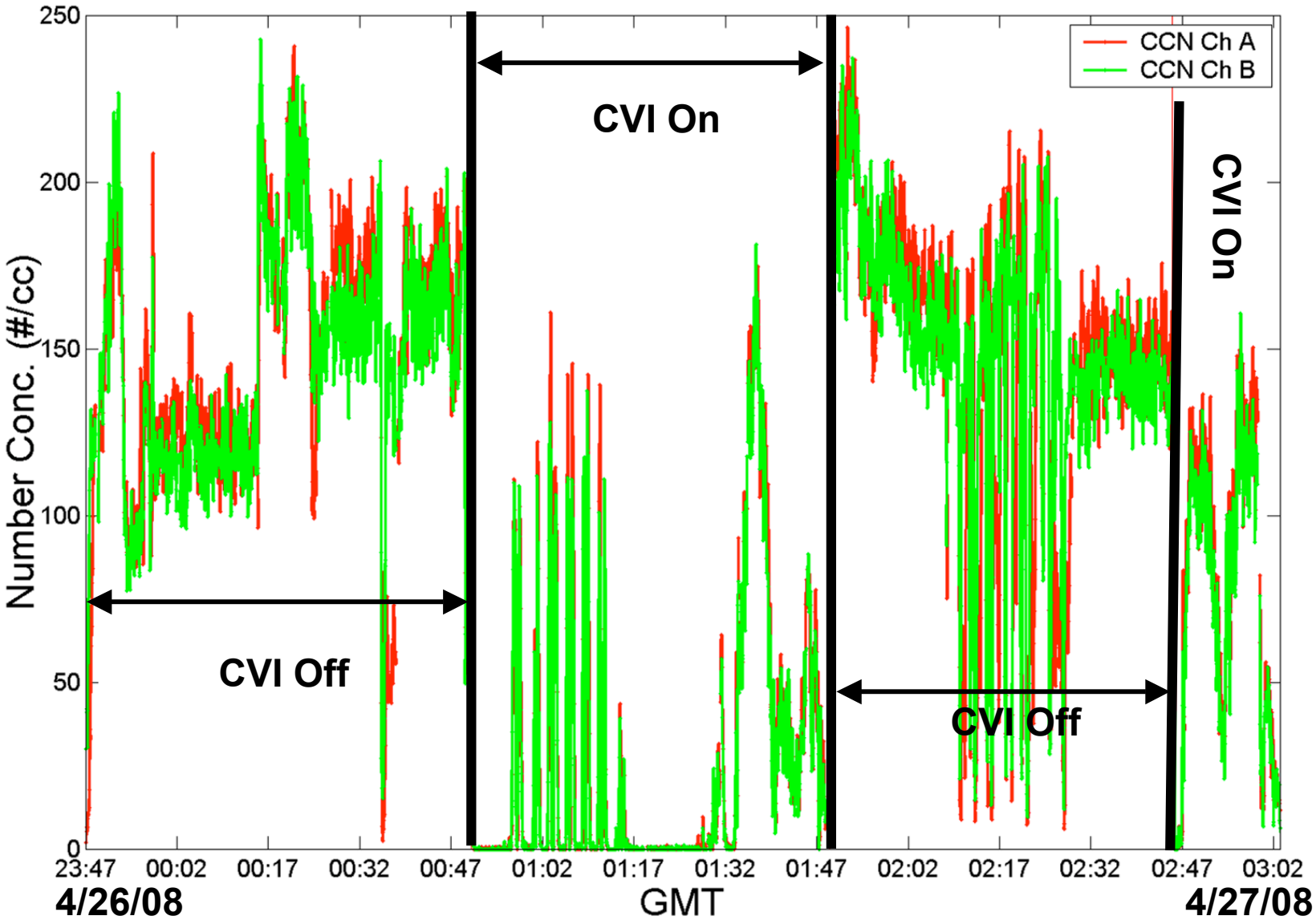
[1]Lawrence Berkeley National Laboratory

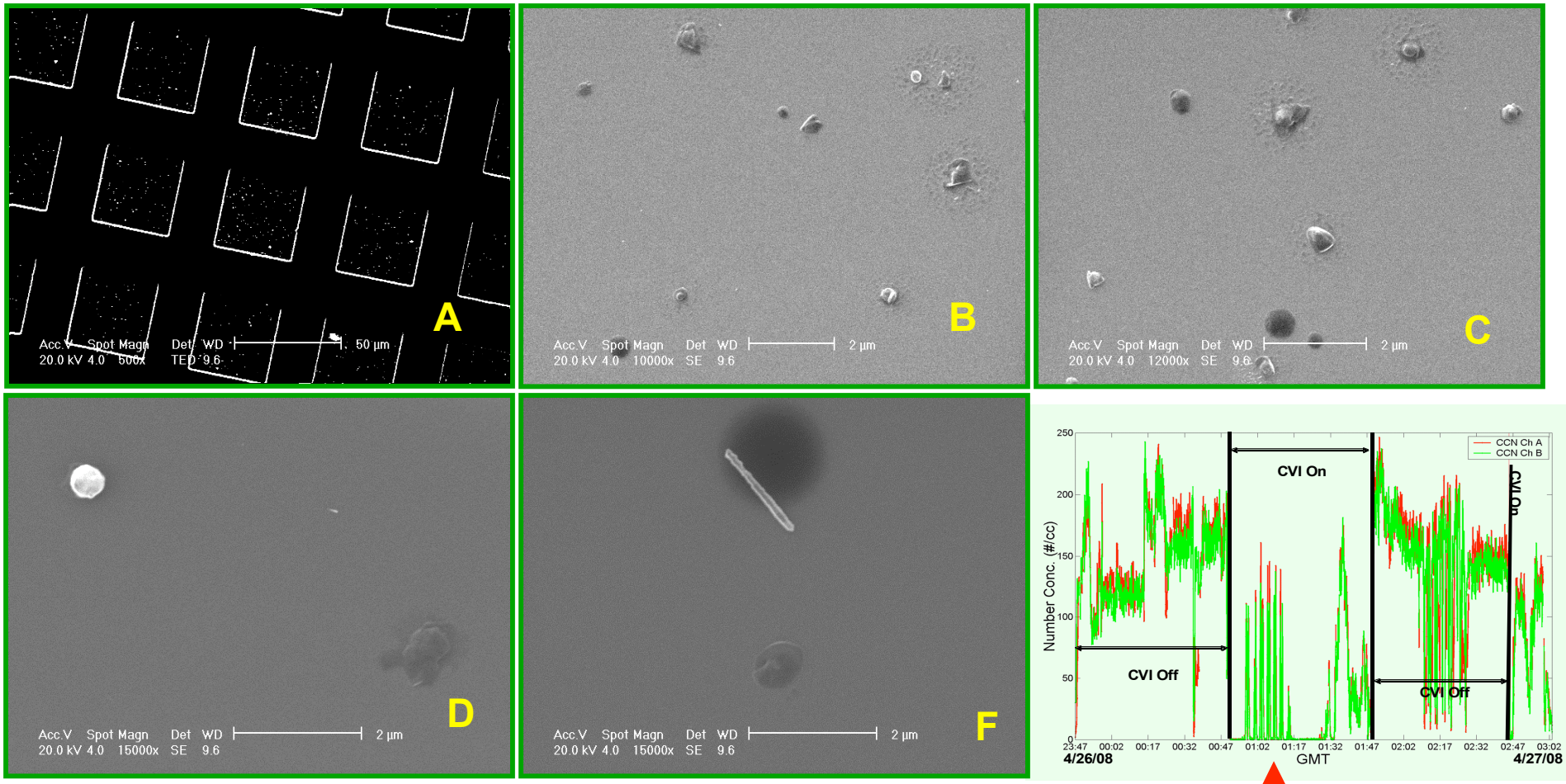
[2]Pacific Northwest National Laboratory

CCN Concentrations



SEM Microscopy – In Cloud

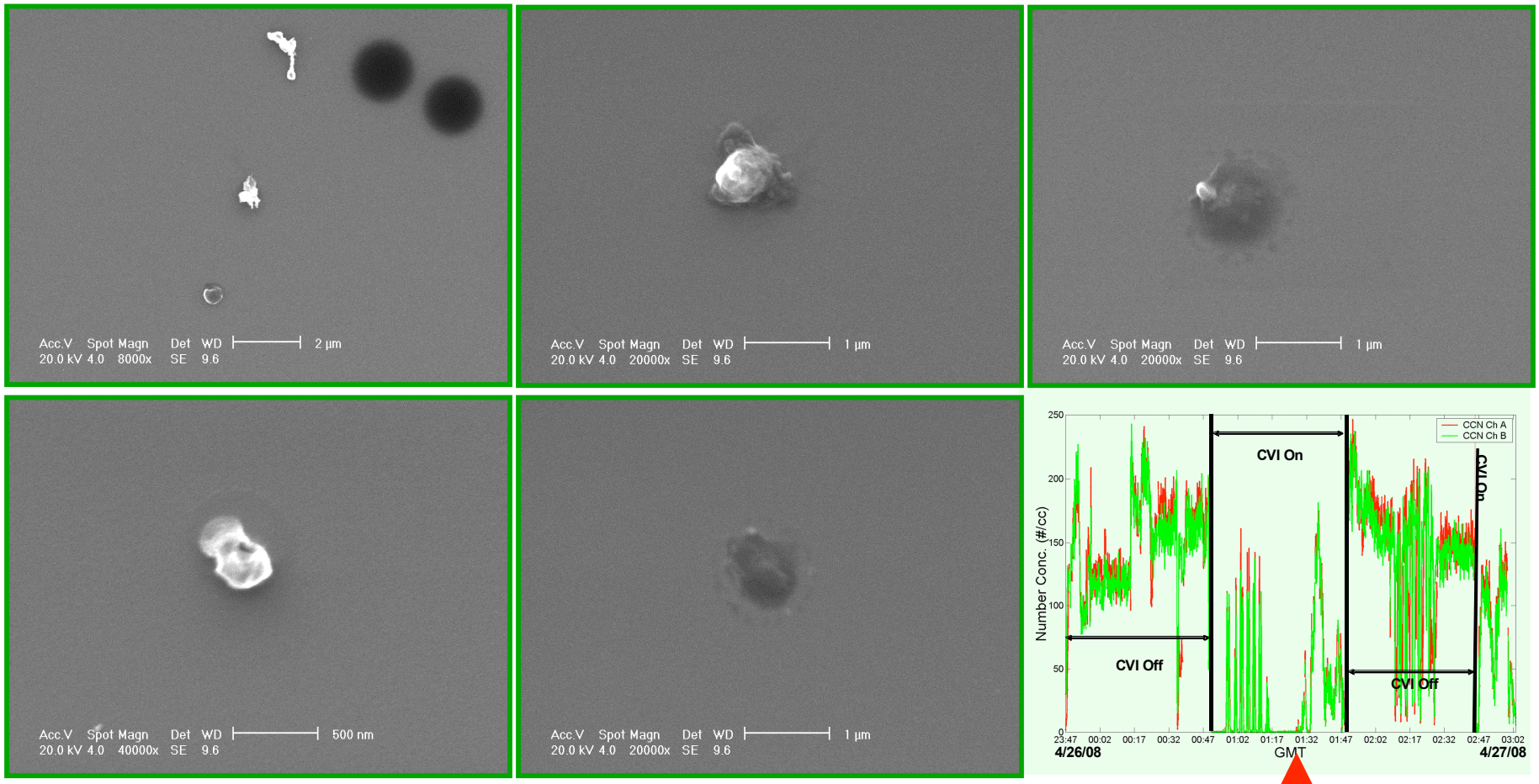
CVI ON



Disk#10 Sample 62 - 4/27/2008 1:03-1:08 am (UTC) In-cloud sample

SEM Microscopy – Below Cloud

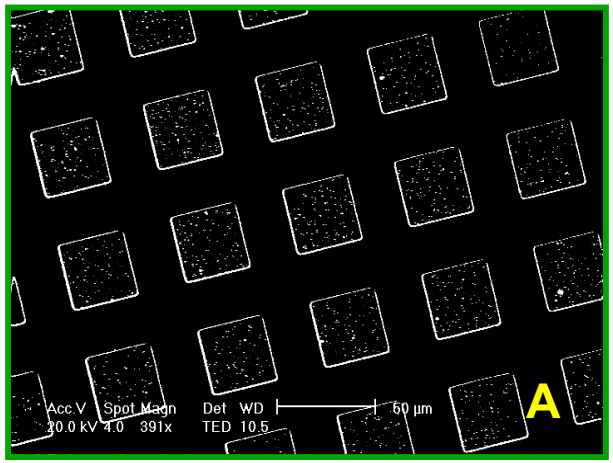
CVI ON

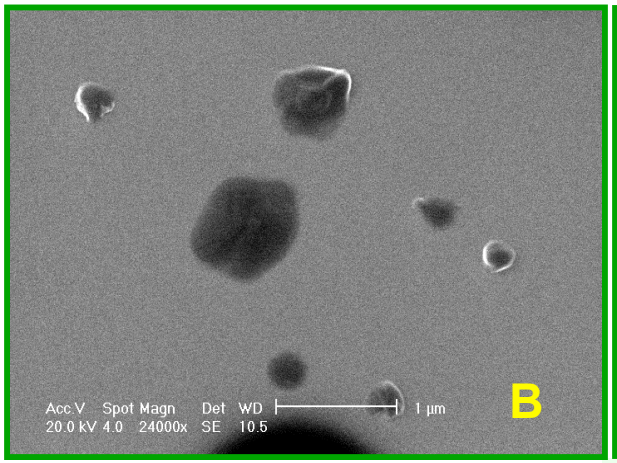


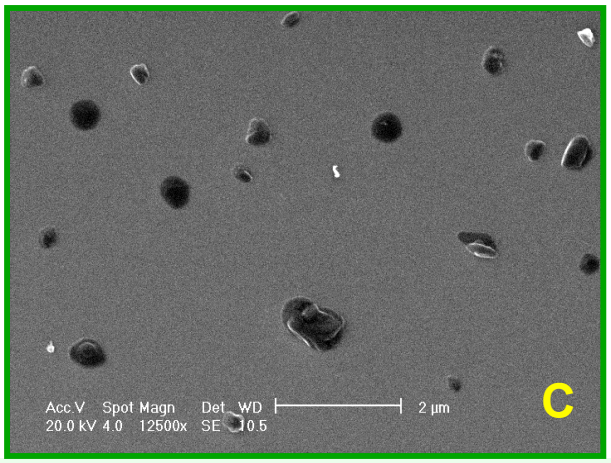
Disk 10 Sample 66 - 4/27/2008 1:24-1:29 am (UTC) below cloud, CVI ON

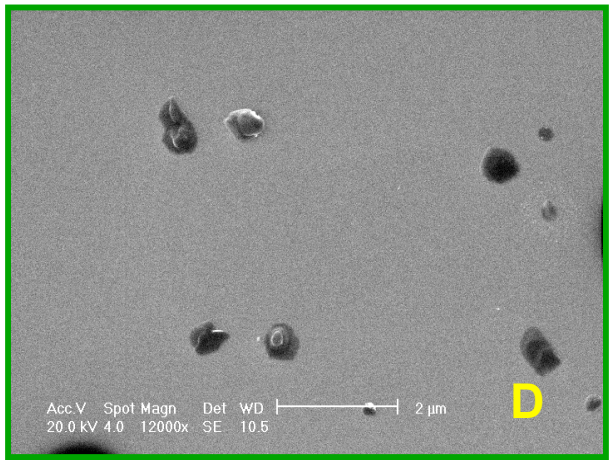
SEM Microscopy – Above Cloud

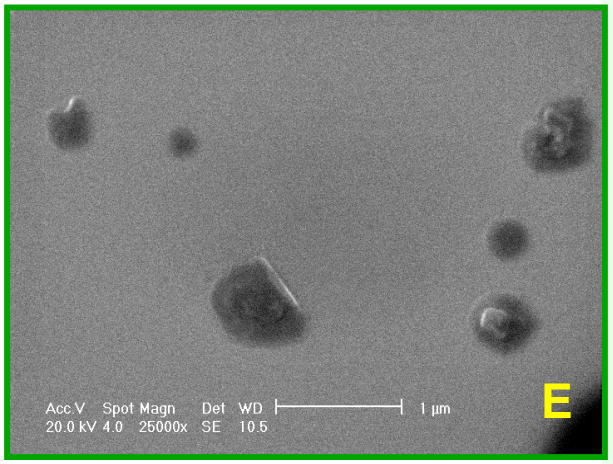
CVI OFF

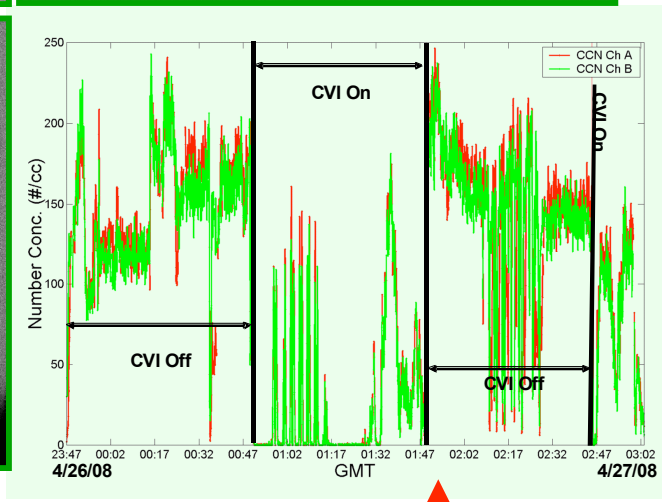






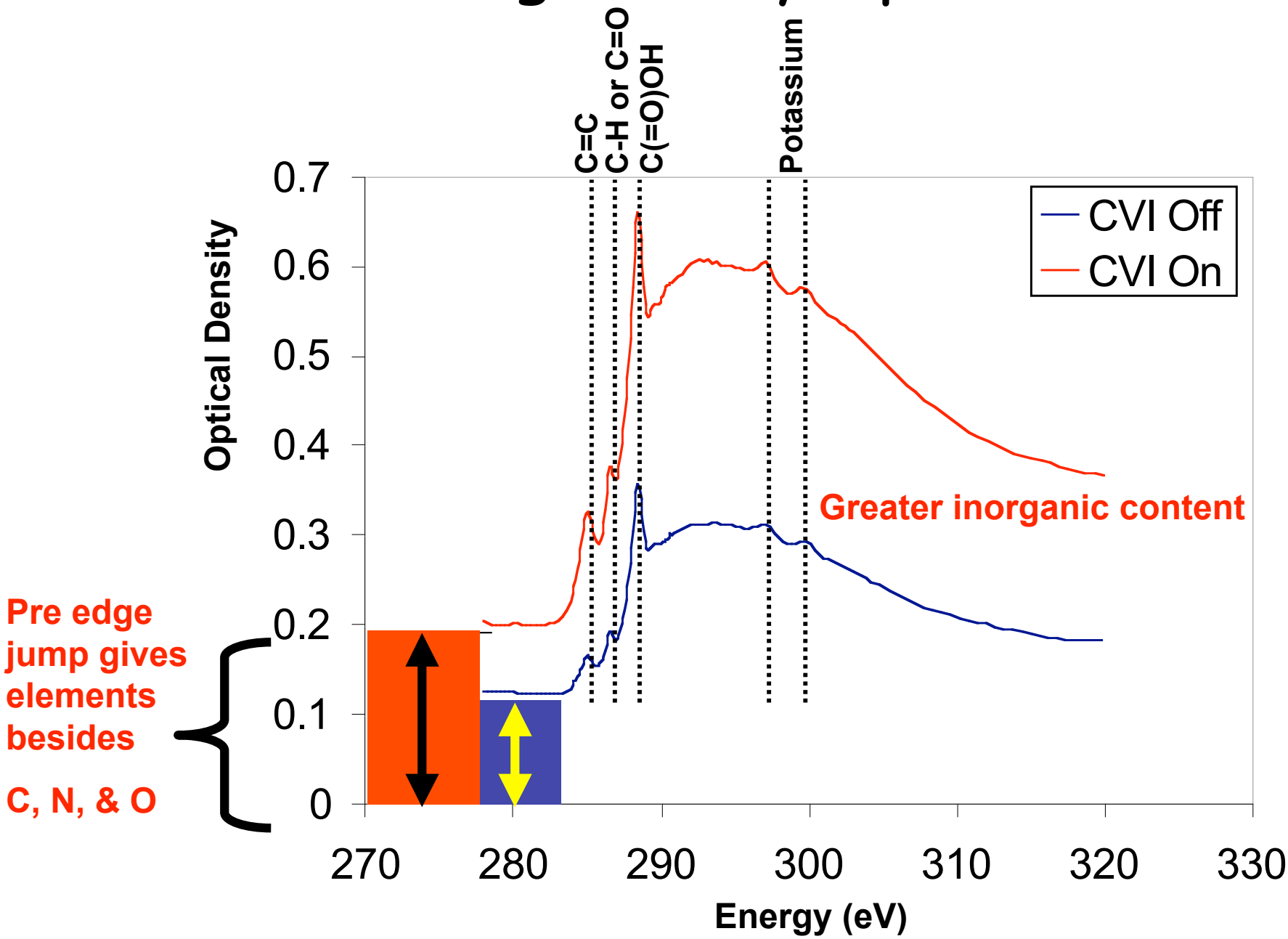




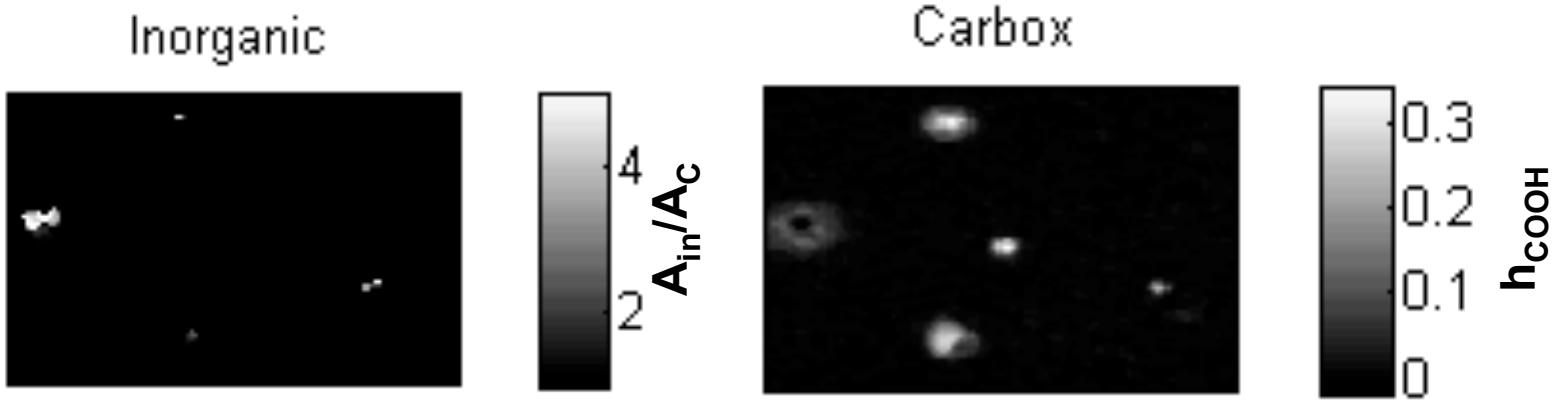


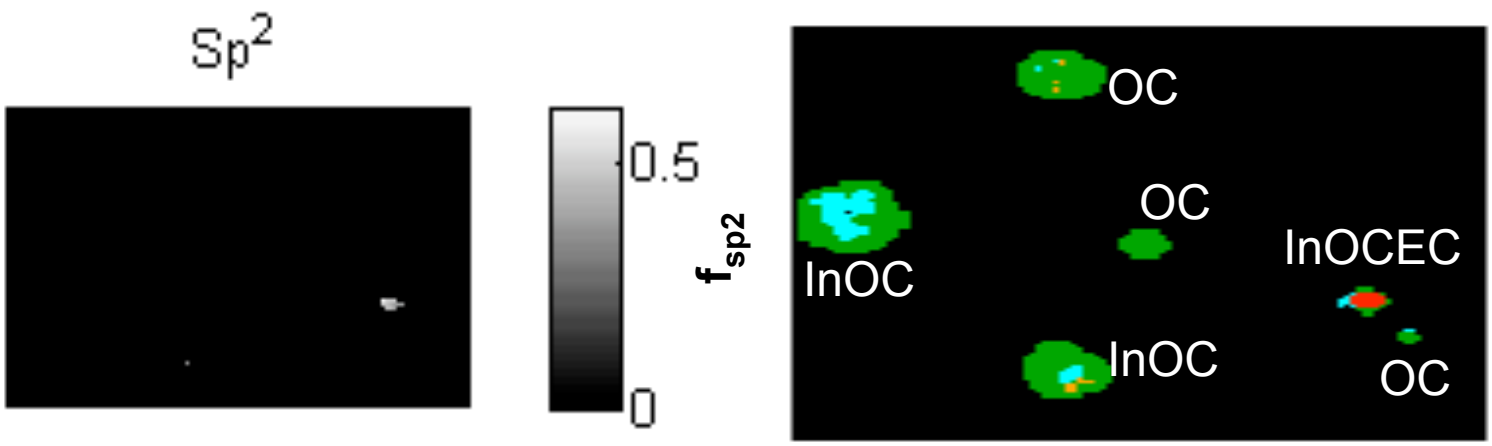
Disk 10 Sample 71 - 4/27/2008 1:49-1:54 am (UTC) above cloud

Carbon Edge X-Ray Spectrum

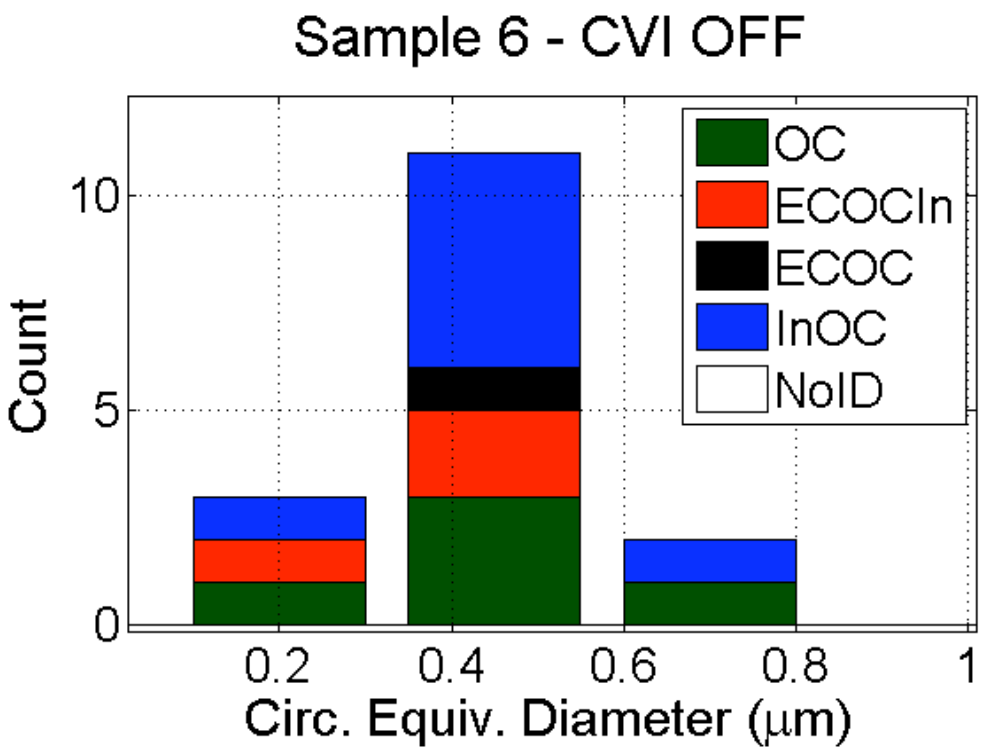
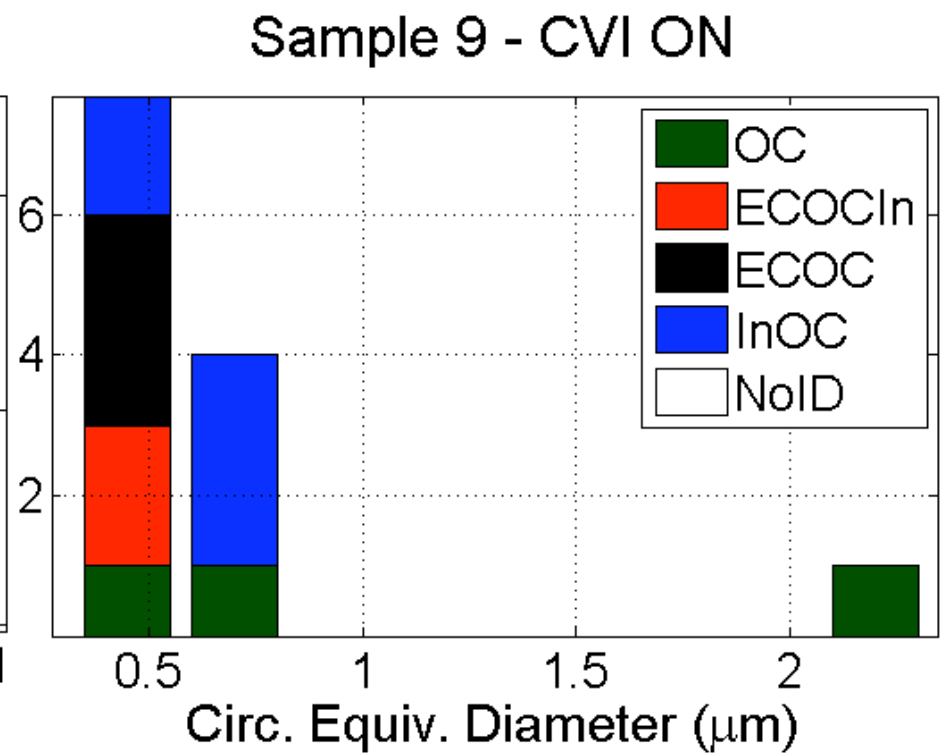


Mapping and Mixing: CVI Off, Above Cloud





Components are quantitatively mapped to label mixing state.

- Carboxylic Acid
- Inorganic
- Potassium
- Elemental Carbon

Chemistry and Size