

Cometary Cell C2121

Images

Aerogel Cell: [C2121-01.jpg](#)
[C2121_T1_20x.jpg](#)

Cell History: Cell C2121 was removed from the cometary grid on September 14, 2006.

Track Information: The tile has several small-sized tracks.

[Feature Images](#)

[Allocation History](#)

Results

Log Entries

Note: All track / features (e.g., T1) numbers assigned during the Level 3 scanning are to be considered “**Temporary**” and in do not relate to the “Official” track number that is assigned when a given features is extracted (e.g., Keystoned) from a tile. Abbreviations: EH – Entrance Hole, TP – Terminal Particle, MTW – Maximum Track / Bulb Width, TL – Track Length.

December 6, 2006

T.H. See

C2121

Removed cell from storage to mount in Level 3 fixture. Tile is broken in to two pieces horizontally. J. Warren, R. Bastien, and T.H. See determined best method to restack the two pieces and successfully mounted the tile in the Level 3 fixture.

C2121 is one of the vertical tiles on the Cometary collector, and thus, the tile had to be rotated 90° counter clockwise with respect to it's in-tray position (*i.e.*, Level 2 orientation) for Level 3 documentation. In the Level 3 orientation, the top left, top right, and lower right corners are broken off the exposed surface of the tile. This is how it came out of the crucible.

No obvious large tracks visible.

Completed seven Depth Profiles @ ~ 09:35.

Setting up for detailed track scan.

Tracks – Because of the orientation difference with Level 2, matching the tracks with those of PW / THS from Level 2 and the 15 degree offset group may be more difficult.

C2121-TB – Located @ 22 x 12, believed to be (B) from PW/THS. Small Type B track. Overall length ~240 µm. EH ~14 µm with MTW of ~60 µm or so. Similar to Track B. Good Match. At least one small TP on the order of 6 µm or less in size.

C2121-TC – Long Type A needle. Located 23.4 x 18.8 mm. Believed to be C form PW/THS. Track toward back of, so a lot of aerogel to go through. May try to flip tile after finishing to get better images. In normal orientation, tracks measures ~1.4 mm in length. Small TP, dark particle at end, but too blurry for accurate measurement. Reverse view image shows TP ~7 μm . MTW is ~33 μm . EH ~12 μm .

C2121-TA – Another long needle Type A track. Corresponds to PW/THS A pretty well as far as location. Located 29.4 x 16.7 mm. Length of ~1.4 mm. MTW ~50 μm . TP ~10 μm .

C2121-TD – Located on extreme left end and image to camera blocked by Level 3 fixture. Try to get after flipping tile 180°. Location 1.2 x 17.8 mm. After rotating tile, I am not sure this is a track. If it is, it is partially missing from fracture. See image (C2121-TD-Reverse). I believe this to be a fracture surface.

Completed tracks in this orientation.

Top Views

Changed light and began Top View 7x @ 10:22

Completed Top View images @ 10:45.

Rotated tile in Level 3 fixture 180° to permit imaging of tracks from other side.

Completed imaging of Tracks from reverse side. Finished tile @ 11:15 and placed back in cabinet after removing from Level 3 fixture.