

Cometary Cell C2005

Images

Aerogel Cell: [C2005-02.jpg](#)
[C2005_T1_20x.jpg](#)

Cell History: Cell C2005 was removed from the cometary grid on 9-14-06.

Track Information: The tile has several visible, medium-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 12, 2006

T.H. See

C2005

T.H. See and J. Warren examined the flakes or fragments that came off of exposed surface of C2005. Each of these fragments was surveyed using the Nikon SMZ1500 microscope looking for tracks. Fragments found to contain tracks were assigned daughter numbers (*i.e.*, 2, 3, & 4) and placed in their own crucible. Eight tracks were located, images were taken of the overall fragments and the locations of the tracks were marked on the “C2005,x Track Maps.jpg” file that resides in the track folder of Level 3 for C2005. Images were also taken of the tracks using the Leica system and the images stored in the tracks folder for this tile.

The fragments that did not contain tracks were placed in a separate crucible and assigned daughter # 1.

The majority of the tile still in tack was removed from the storage cabinet and mounted in the Level 3 fixture in its Level 2 orientation. There is one large visible track in the tile with the unaided eye. J. Warren and T.H. See noticed at least three other tracks when quickly scanning the tile via the Nikon on the Ishii Knife table.

Began Depth Profiles at 12:15.

Tracks

C2005-T9 – Located at 22.4 x 16.9 mm. Type A track. Took one image. Will take images from other side once I reverse the tile. Track appears to be on the order of 650 μm . MTW ~26 μm . EH ~20 μm . TP coated with aerogel but measures ~4 x 9 μm .

C2005-T10 – Located at 34.1 x 7.1 mm, corresponds to Penny's Track A. Type B track with at least three styli. Stylus lengths are ~980 μm , 1150 μm , & 1210 μm . Each has a terminal particle at the end. MTW ~225 μm . EH ~75 μm . All three terminal particles are on the order of 5 μm in size.

C2005-T11 – Located at 34.1 x 18.6. Type A. Better images from other side. One image from this side. Track length is ~ 1.63 mm with MTW of 70 μm . EH ~20 μm . Dark colored TP that measures ~ 6 x 9 μm in size.

C2005-T12 – Found after reversing tile. Normal coordinates would be on the order of 18.2 x 13 mm or so. Small Type A track. ~350 μm long with MTW of ~15 μm . Terminal Particle ~6 μm . EH not distinguishable.

C2005-T13 – Found another small track from reversed side. Regular coordinates would be on the order of 12 x 15 mm. Small Type B with two styli. Longest is ~200 μm while the short stylus is only ~122 μm in length. Not sure if terminal particles are present, but I believe so. Did not attempt to image TPs because it was too blurry.

Completed initial track survey and converted system to flat panel yellow light for 7x & 20x Top View mosaics.

Completed 7x & 20x top mosaics at ~ 13:45.

Rotated tile in Level 3 fixture to image tracks from back side.

Completed tile at 14:30. Removed from Level 3 fixture and returned to crucible and storage cabinet.

This concludes the last of the recently pulled 10 tiles.