

Cometary Cell C2027

Images

Aerogel Cell: [C2027-01.jpg](#)
[C2027_T1_20x.jpg](#)

Cell History: Cell C2027 was removed from the cometary grid during the second extraction in March 2006.

Track Information: At least six tracks in the cell with two large, one medium, and three small 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.

02-13-06 – TH See & J. Warren

Removed cell **C027** from cabinet and mounted on Level 3 fixture. Conducted standard Level 3 documentation duplicating conditions that were finalized on 02-10-06 by See, Hörz, Brownlee, Westphal, Tsou, & Zolensky.

As for naming the files, I am removing C, R, & L, leaving the tile number and assigned track number, along with the X, Y, & Z information.

C027-T1 – Located near the left edge of the cell ~5.9 mm from left side of tile and toward the middle of the tile ~1.03 cm from the front surface of the tile. Track length is ~560 μm . Imaged @ 63x. EH ~ 40 μm with MTW ~ 120 μm

C027-T2 – Located ~1.03 cm from left end and ~9 mm from the front surface. The track measures ~750 μm in length. Imaged @ 50x. This feature was too small and too far into the aerogel to image with the back, diffuse light. MTW ~ 45 μm .

C027-T3 – Located 2.18 cm from left edge and ~9.4 mm from the front surface. The track is ~ 3.7 mm in length. Imaged at 16x. Particle ~10 μm . Needle-like track with ~ 115 μm EH and MTW of ~ 225 μm .

C027-T4 – Third largest impact in the tile to the right of halfway. Located ~2.4 cm from left end of tile and ~1.63 cm from the front. Turnip-shaped feature with two stylus, one measuring ~ 3.96 mm and the shorter measuring ~ 2.2. mm. EH is on the order of 190 μm with MTRW ~ 770 μm . The track measures 3.96 mm in length. Particle size ~30 μm

C027-T5 – Small track to the left of larger twin pair. Located ~3.1 cm from left end of tile and 1.9 cm from front surface, placing this track near the back side of this tile. Track length is ~1.5 mm. EH is ~ 69 μm wide with MTW of ~ 107 μm .

C027-T6 – First of large twin impacts on the right end of the tile. Both are imaged in one image at 7.11x. Both are bifurcated or split tracks. Coordinates are 3.2 cm and 4.2 mm from the front surface to the line of the terminal particles. The tracks are 8.1 mm & ~ 8.5 mm in length on this feature. Terminal particles ~ 45 μm & 40 μm . Eh is ~ 290 μm with MTW of ~ 1313 μm .

C027-T7 – The second of the twin tracks. Located at ~ 3.4 cm from left end of tile and the terminal particles are ~5.3 & ~6.1 mm from the front surface. Three stylus or bifurcations obvious from this one measuring 6920, 8250, & 10660 μm in length. The longer of the various terminal particles is ~ 1.1 cm from the top surface (Track length). Terminal particles ~ 38 μm , 22 μm , 30 μm , 30 to 40 μm (oval shape). EH of ~ 370 with MTW of ~ 1420 μm .

C027-T8 – Small track to the right of the second twin of the two larger tracks. Located ~3.5 cm from the left end, and 4.2 mm from the front surface. Imaged at 32x. Track is ~1.5 mm in length. No obvious terminal particle, but it may be obscured due to this tracks proximity to track 7. EH is ~ 80 with MTW of ~ 205 μm .

C027-T9 – Track located at 3.7 cm from left end, almost all the way to the right side of this tile. ~3.3 mm in from the front surface. Imaged at 16x. Long, narrow track measuring ~4.7 mm in length. Particle Diameter ~20 μm . MTW of ~ 125 μm and EH of ~ 83 μm .