

# Cometary Cell C2049

## Images

**Aerogel Cell:** [C2049-01.jpg](#)  
[C2049\\_T1\\_20x.jpg](#)

**Cell History:** Cell C2049 was removed from the cometary grid on May 18, 2006 and is currently located in the remote storage facility at White Sands, New Mexico. This sample is not available for allocation.

**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.

### 06-01-06 – T.H. See

Removed cell **C049** from sample cabinet and mounted in Level 3 fixture after determining the correct Level 2 orientation.

Began Level 3 documentation of C049 @ 8:00 am.

Completed 7x & 20x Top Views with backlighting. Converted system for Depth Profiles.

Tried to find the fiducial marks from the side for Z's compressed and release photos, but could not find those on either end. It appears as though the making of the marks simply fractured the tile on the corners.

### Tracks

C049-T1 - ~ 980  $\mu\text{m}$  in length, nice bulbous track with at least two stylus projecting out from the bottom of the main bulb; shorter stylus measures ~ 770  $\mu\text{m}$ . Terminal particles present on both stylus. Entrance hole on the order of 55  $\mu\text{m}$  while the bulb maximum width is ~ 280  $\mu\text{m}$ . Measure from the side at 50x indicates the track is nearly 1400  $\mu\text{m}$  in length.

C049-T2 – Small ~ 125  $\mu\text{m}$  long bulbous track with a second stylus on the order of ~ 120  $\mu\text{m}$ . The bulb makes up 95  $\mu\text{m}$  of that overall length. There does appear to be some small terminal particles visible. Entrance hole is on the order of 10  $\mu\text{m}$  while the bulb max is ~ 40  $\mu\text{m}$ .

C049-T3 – Small carrot-shaped track ~ 190  $\mu\text{m}$  in length toward the back half of the tile, thus the fuzziness of the image. Terminal particle is present as well as a few others scattered along the track. Entrance hole is on the order of 10  $\mu\text{m}$  while max track width is only about 26  $\mu\text{m}$ .

C049-T4 – Nicely defined bifurcated track with terminal particles visible at the end of each of the stylus. Max track length is ~ 390  $\mu\text{m}$ ; shorter stylus is ~ 345  $\mu\text{m}$ . Each terminal particle is ~ 8 to 10  $\mu\text{m}$  in size. Entrance hole is less than 20  $\mu\text{m}$  in size while max width for the track is ~ 30  $\mu\text{m}$ .