

# Cometary Cell C2061

## Images

**Aerogel Cell:** [C2061-01.jpg](#)  
[C2061\\_T1\\_20x.jpg](#)

**Cell History:** Cell C2061 was removed from the cometary grid on January 25, 2007 without incident. Cell transferred to White Sand remote storage facility as a posterity sample.

**Track Information:** The tile has one moderate-sized track and approximately eight others that were documented via Level 3.

## Feature Images

## Allocation History

## 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.

**Level 2** examination of C2061 was conducted on February 23, 2006. Nothing unusual or out of the ordinary reported.

### Level 3

**February 15, 2007**

T.H. See

### C2061

Removed tile C2061 from cabinet and mounted in the Level 3 fixture in the Level 2 orientation of the tile. There is one large feature in the lower-left quadrant of this tile.

System is already configured for Depth Profiles, so those will be obtained first.

Began Depth Profiles @ 12:00. After completing and reviewing the first Depth Profile, it was determined that the camera was out of alignment. Thus, the alignment process was undertaken to correct this issue. Depth Profile 1 redone at 12:10. On first redo, lighting was badly uneven, so another version was acquired. This version successful.

Completed Depth Profiles at 12:30. Configured for Track imaging.

### Tracks

Surface of this tile has the often seen mottled texture or surface pattern on it. This can make track recognition of the small tracks difficult.

C2061-T1 – The big boy in the tile. Type B with one good stylus. Located 8.4 x 4.7 mm. Eh ~ 365 while surface EH is ~ 595  $\mu\text{m}$ . Nice, large TP of ~23  $\mu\text{m}$ . Appears dark in color and shaped like a doughnut. This is the TP associated with the shorter of the two styli. TP2 ~ 12  $\mu\text{m}$  in size and more round. Two styli measure ~ 570 & 521  $\mu\text{m}$  in length. MBW ~ 225  $\mu\text{m}$ . BL ~ 413  $\mu\text{m}$ .

C2061-T2 – Another Type B. Located 12.2 x 14.1 mm, toward back of tile behind and to the right of the largest feature on this tile. MBW ~140, EH ~ 20, TL ~ 605, BL ~ 470  $\mu\text{m}$ . TP 7 x 14  $\mu\text{m}$ .

C2061-T3 – Small Type B track located 4.3 x 6.7 mm. Appears to be two styli. The camera path is partially being obscured by the left end of the tile and breaks or cleavage planes on the end of the aerogel tile. Only taking one overall feature image due to blurriness. Styli are ~190 & 167  $\mu\text{m}$  in length. Small, < 5  $\mu\text{m}$  TPs at end of each styli. MBW ~ 53, EH ~ 15. Bulb Length (BL) ~ 130  $\mu\text{m}$ .

C2061-T4 – Another Type B. Located 12.3 x 5.1 mm. EH ~ 83. MBW ~ 277  $\mu\text{m}$ . TP ~ 5  $\mu\text{m}$ . TL ~ 925  $\mu\text{m}$  BL ~ 611  $\mu\text{m}$ .

C2061-T5 – More of a carrot, but still another Type B located 21.7 x 16.8 mm, toward back of tile. MBW ~ 135  $\mu\text{m}$ . Three visible styli. Longest ~ 13917  $\mu\text{m}$ , 1120  $\mu\text{m}$ , & 1097  $\mu\text{m}$ . BL ~ 710  $\mu\text{m}$ . May try to image from other side. Lots of aerogel to get good images from. TP1 ~ 14, TP2 ~ 13, TP3 ~ 15  $\mu\text{m}$ .

C2061-T6 – Small Type B track. Located 20.4 x 13.7 mm. Only getting overall image. EH ~ 21, MBW ~ 63, TL ~ 370, & BL ~ 210  $\mu\text{m}$ .

C2061-T7 – Type A carrot. Located 22.3 x 4.9 mm. MBW ~ 103. Lower end of track blurred by aerogel flaws or crack. TL ~ 1280  $\mu\text{m}$ . Track appears to be curved or changed directions after entering aerogel.

Completed tracks at 1:45 and configured for top view mosaics.

Completed 7x & 20x Top View mosaics at 2:10. Flipped tile to see tracks from other side.

Found another possible small one.

C2061-T8 – Small Type B or C. 33 x 14 mm (original coordinates; I flipped the coordinates for this one so they are accurate). TL ~ 150  $\mu\text{m}$ . MBW ~ 75  $\mu\text{m}$ .

C2061-T9 – Type B track not previously seen from other side. 12 x 13 mm. TL ~468, MBW ~ 68, & BL ~ 312  $\mu\text{m}$ .