Track 10 (Arinna)
[C2,7,10]

Length
0.45 mm

Composition: Fo, sulfide, glass

450µm track from loose fragment 7
first uw track
The track had two major roots, each with ~3-4µm rounded terminal particles. The roots had well defined "smoke" trails composed of tiny sulfide droplets.
TPs rounded and opaque- looked somewhat brassy like sulfides

The track was crushed vertically and sectioned from the entry hole down to the 2TPs
The tracks were quite visible, apparently due to sulfide droplets and other debris.
Silicates including Fo with hi Ca, Mn and Cr were found in the top of the track.

Aug 14, 2006 One TP, one sulfide is still in potted butt, one has been cut through.

Track 20 (Maya)
[C2115,22,20]

Length
0.9 mm

Composition:

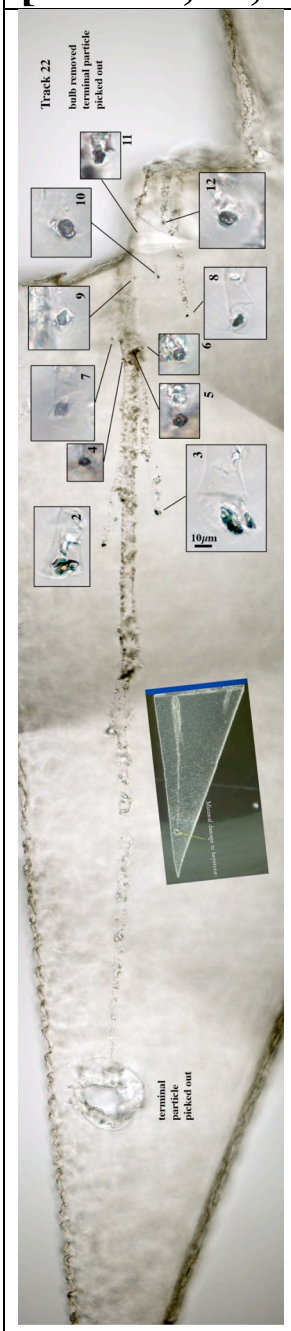
TP	~5µm core in 10µm TP
	~pure clinoenstatite

This is only the tip of the track- rest cut off.

Dark yellow stain and general physical damage is apparently from synchrotron analysis

Track 22 (Aton)
[C2115,24,22]

Length
3.9 mm



Composition:

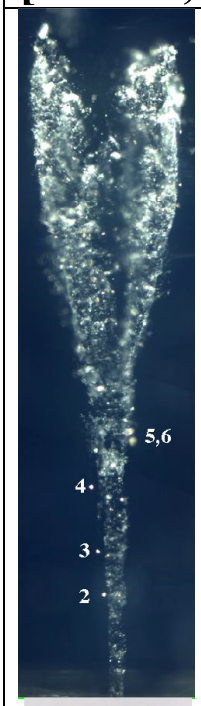
Frag 2	Compressed aerogel!
Frag 5	Fo 86
Frag 6	
Frag 7	Fo 70 olivine
Tbd data on 5,6 some Na,Al,K	

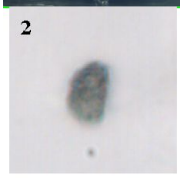
Large track TP removed at Berkeley and top of track (bulb) cut out

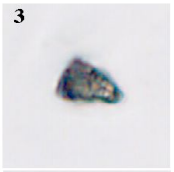
Frag 2 is compressed aerogel with its own track. It apparently was was accelerated by the main TP and then ejected at high speed to make its own track. This is evidence that compressed aerogel is accelerated several km/s. Frag 3 is probably also compressed (not melted) aerogel. The other frags are mineral grains, they are birefringent and do do not have the same refractive index as silica – like compressed aerogel.

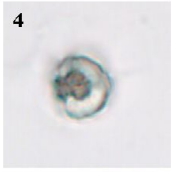
Track 25 (Inti)
[C2054,4,25]

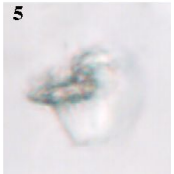
Length
~2 mm











Composition: CAI-like, >7 minerals, O16 rich

Frag 1 (also called Inti)	CAI minerals
Frag 2 (also called Inti-B)	CAI minerals
Frag 3 (also called Inti- C	CAI minerals
Top bulb section was called Inti-D	

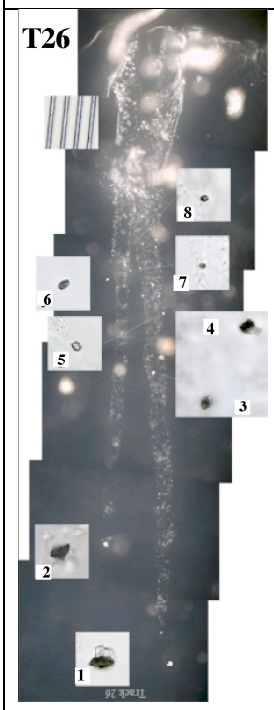
Cut from 3mm slab made by harmonic saw
?? long track. The track looked relatively clear and all fragments were transparent or translucent.
The track was crushed perpendicular to the track.
The first fragment 1 has diopside, anorthite, melilite, and Ti(V)N
Second fragment 2 is also CAI

The track was crushed before the track mosaic image was made. The image is somewhat wider than the pre-crushed track.

The bulb contains many >2 micron mineral grains that can be seen at 1000X bright field reflected light.

Track 26 (ADA)
[C2054,5,26]

Length
>2 mm
top gone



Composition: Fayalite, silica

Frag 1 (called ADA)	~20µm fayalite/silica
Frag 2 (called ADA-B)	Fayalite silica

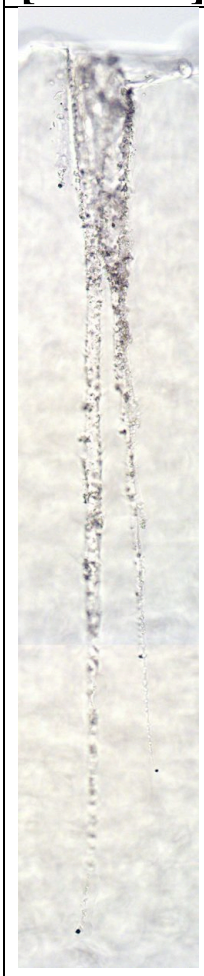
Frags 1 and 2 mounted in acrylic and sectioned

Top of track was missing from tile- chipped off.

The Fa has high Mn content.

Track 27 (Sitara)
[C2iiiiii]

Length
Zz mm



Composition: En + sulfides

Frag 1 (TP)	8µm En with attached FeS

Track 38 (Tara)
[C2044,0,38]

Length
3.2 mm

Composition: Fe,Ni metal + melted matl (see below)

Frag 1	Fe Ni metal + some sulfide
Frag 2	Complex aggregate of melted aerogel + metal/sulfide beads + melted silicates

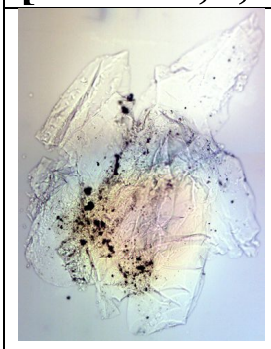
3.2mm thin carrot track with two TPs <10µm
last TP 6x13µm

crushed with entire track- both TPs cut through

Frag 2 was probably attached to Frag 1 and broke off just at the end of the track.

Track 41,? (Isis)
[C2O44,0,41]

Length
Zz mm

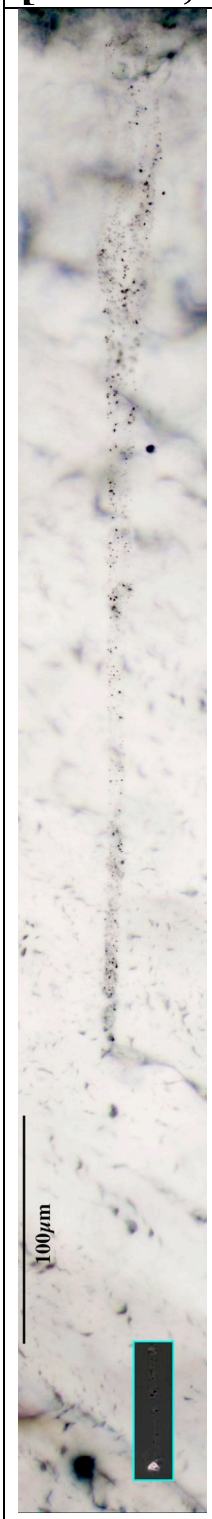


Composition:
NOT A FULL TRACK- ONLY A PORTION OF THE BULB OF T41

Black components up to ~20µm diameter. All black components are a mix of melted silicates + silica + beads. Some rounded water-clear Fo and En grains are scattered among the black components.

Track 56 (Key A)
[C2009,1,56]

Length
0.65 mm

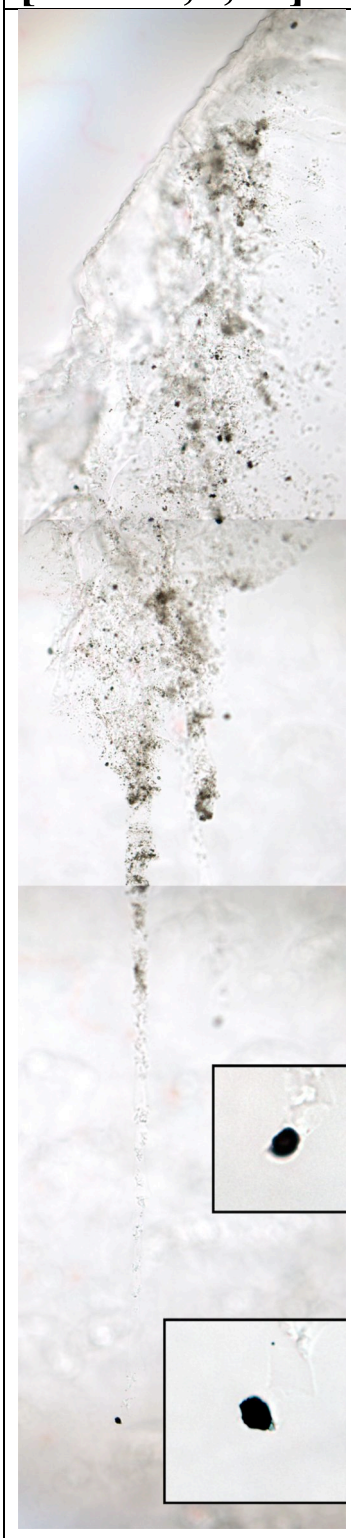


Composition:

TP	Roedderite/eifelite, (enstatite?)

Track 57 (Febo)
[C2009,2,57] 10april 06

Length >1.4 mm



Composition:

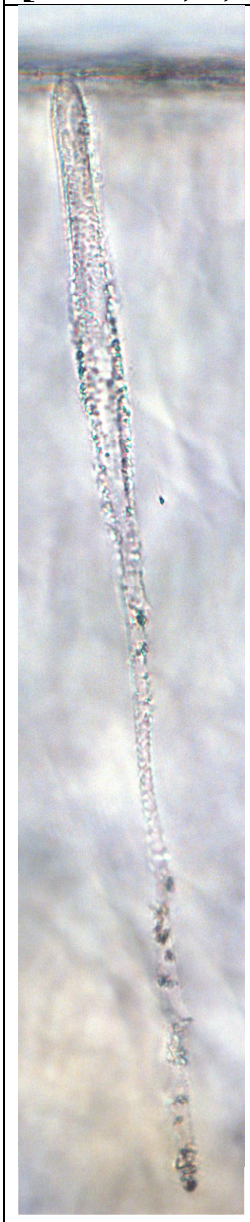
Frag 1 (called Febo –B)	8µm sulfide+En+ fine grain fraction
Frag 2 (called Febo –C)	Looks like sulfide in reflected light
Top part of track in image called "Febo"	

Entry region missing

Febo B has a 5 µm sulfide, a few micron En and a large region of submicron material that is about chondritic composition- not dominated by molten aerogel. The fine grain fraction has carbon grains with isotopically anomalous N.

Track 58 (Noni)
[C2009,3,58] (4april06)

Length
0.29 mm



Composition:

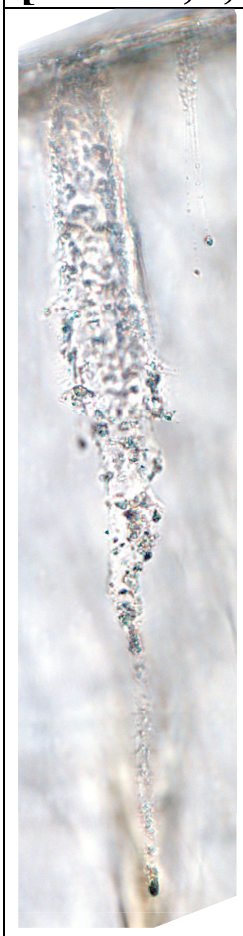
Frag 1	<5µm

Long carrot with debris near TP. Yellow stain around TP (presumably from previous analysis in synchrotron?)

Whole track +TP embedded and micrtomed. Debris are visible along track.

Track 59 (yy)
[C2009,4,59] (27march06)

Length
0.35 mm



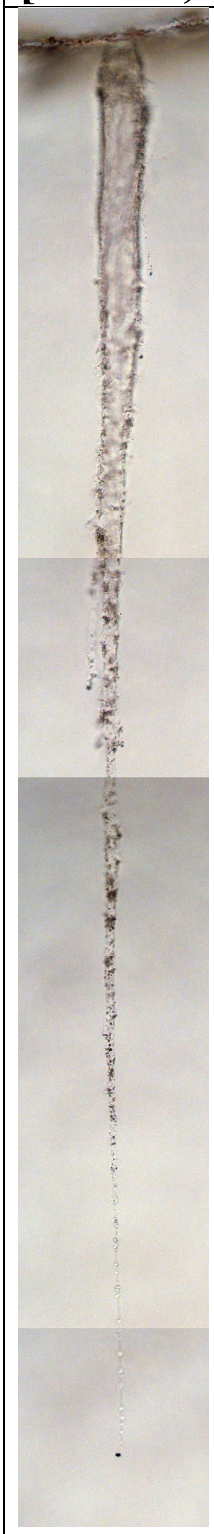
Composition:

Two needle-like fibers very close to TP. Fibers nearly perpendicular to track and intersect top and bottom face of keystone.

Note: 80µm track next to main. There may be three adjacent tracks and this might be considered to be a cluster

Track 61 (yy)
[C2009,6,61] (29march06)

Length
1.6 mm



Composition:

Frag 1 ~5µm	

Thin carrot-like long thin clean track several roots in upper half

Track 71 (Surya)
[C2009,11,71] (18april06)

Length
0.22 mm

Composition:

TP	Fo 82 (nonStoic?)

220µm track with small clear TP
Very clean carrot track

Sections curled on washing

Very small TP. Few sections available only. No particle left in PB.

Track 72 (Gea)
[C2009,12,72] (20april06)

Length
~0.12mm

Composition:

TP < 3µm	

Track xx (yy) **[C2iiiiii]**	Length Zz mm

Composition:

Track xx (yy) **[C2iiiiii]**	Length Zz mm

Composition:
