

# Agenda

Intro: Urbina/Fentzke

Panel: Mathews/Sulzer/Dyrud

Galindo: “Light curves” observed on meteor-head radar returns from Jicamarca: Preliminary Results


Bath: The Meteoroid Mass Distribution Observed at the Jicamarca Observatory

Michell: Optical and Radar Meteor Observations at Jicamarca.

Oppenheim: An Update on Non-Specular Trail Meteor Winds: Validation and Techniques

Volz: Improving Radar Observations Using Compressed Sensing

# Definitions

**frag·men·ta·tion**  (frăg'mən-tā'shən, -mĕn-)  
*n.*

1. The act or process of breaking into fragments.

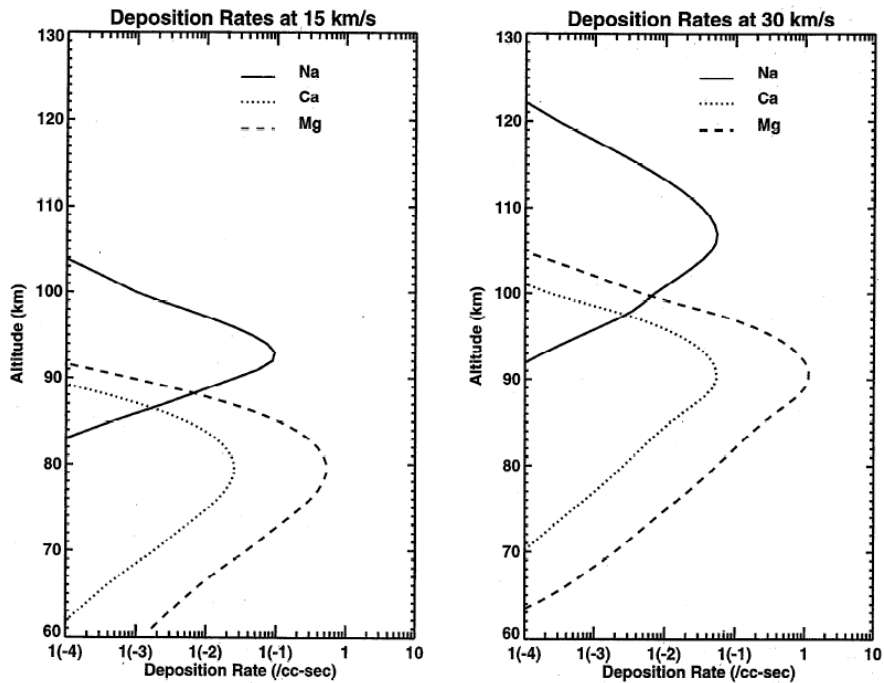
(Thermal/Mechanical stresses imparted on the meteoroid body that results in fracturing)



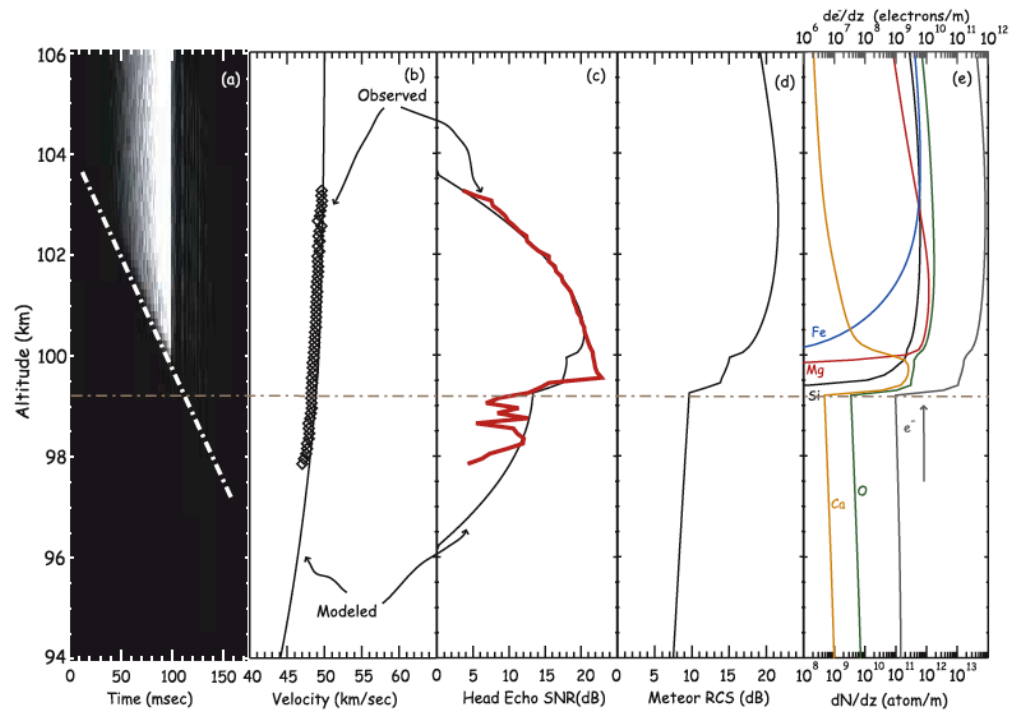
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**Differential Ablation** - more volatile metals sublime/melt earlier in the descent of a cosmic dust particle than do the less volatile components.

MCNEIL ET AL.: DIFFERENTIAL ABLATION OF COSMIC DUST

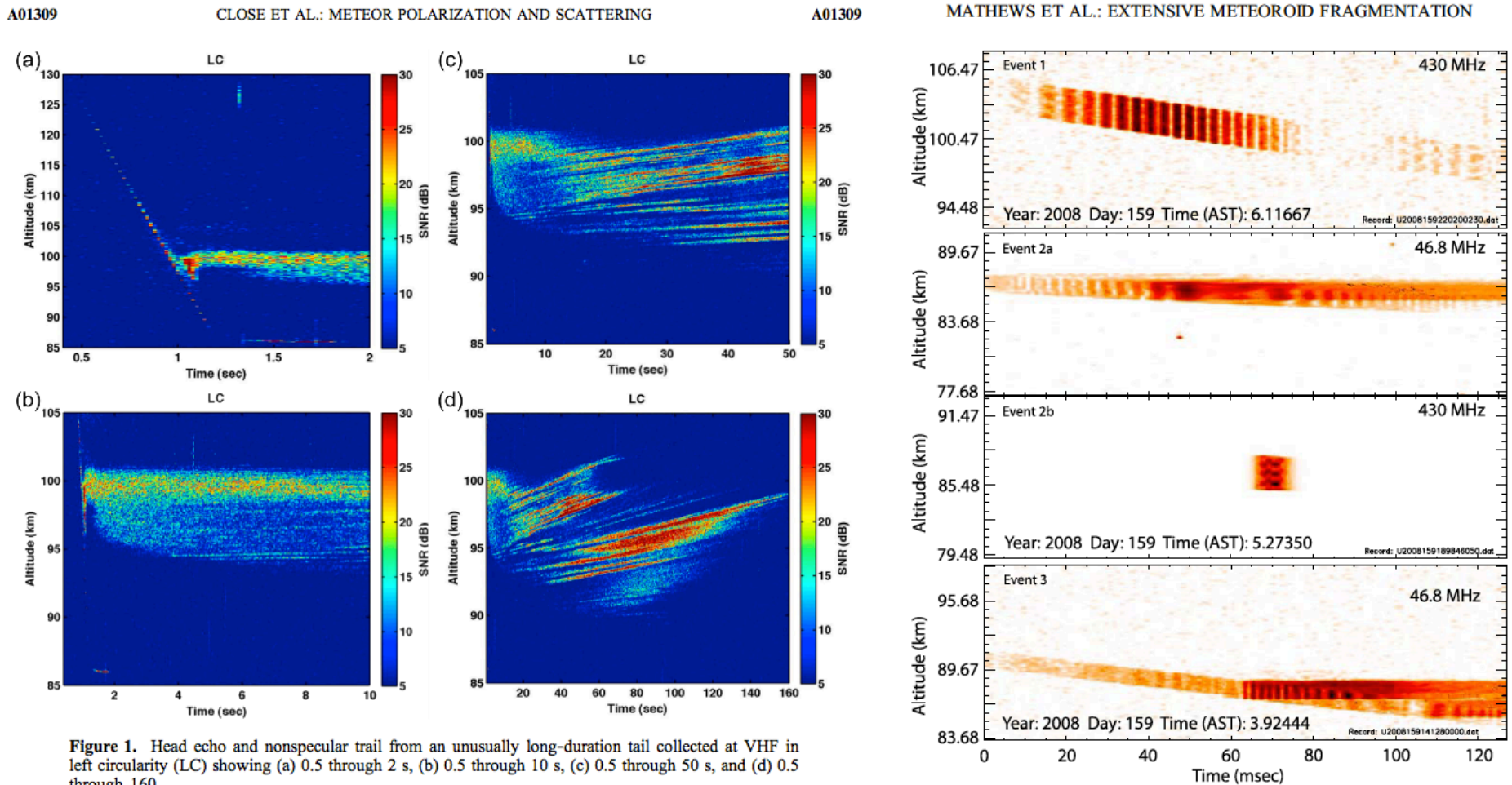


JANCHES ET AL.: MICROMETEOROID DIFFERENTIAL ABLATION



# Definitions

**Multiple Scattering-** signals that appear from multiple scattering centers, i.e. multiple point targets (fragments) or distributed plasma/turbulence structure.



**Figure 1.** Head echo and nonspecular trail from an unusually long-duration tail collected at VHF in left circularity (LC) showing (a) 0.5 through 2 s, (b) 0.5 through 10 s, (c) 0.5 through 50 s, and (d) 0.5 through 160.