

SPICE Round Table Discussion. C. H. Acton,¹ N. J. Bachman¹, B. V. Semenov¹; ¹California Institute of Technology/Jet Propulsion Laboratory, 4800 Oak Grove Dr., Pasadena CA 91109 charles.h.acton@jpl.nasa.gov.

Introduction: NASA’s “SPICE¹” observation geometry system [1] has become widely used by scientists and engineers throughout the international space science community as the means for providing a wide assortment of mission geometry calculations used in designing and operating robotic missions, in planning science observations, and in analyzing and archiving the data returned from those observations.

The SPICE development team should be—and is—interested in suggestions from the user community about how the SPICE observation geometry information system and the team’s SPICE operations processes might be improved and extended to best serve the space science community. This Planetary Data Workshop provides a rare opportunity to have a wide-ranging, open forum with SPICE users to hear about and discuss all such suggestions.

While the SPICE developers are interested in any SPICE-related topic that comes to mind, here we list a few items brought up recently in hopes that this list will stimulate interest on the part of Workshop attendees in participating in the round table, and in bringing similar questions to the floor.

- How to improve finding/choosing the “right” kernels to use for a given problem (“kernel management”)
- Status of the Digital Shape Kernel (DSK)
- Prognosis for the SPICE 2.0 C++ Toolkits
- Plans for extending the WebGeocalc tool
- Plans for extending the Cosmographia 3D visualization tool
- Use of SPICE in support of CubeSats and SmallSats

[1] Acton C.H. et al (2017) *Planetary and Space Science*; DOI 10.1016/j.pss.2017.02.013

The research described in this publication was carried out at the Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration.

¹ Spacecraft, Planet, Instrument, C-matrix, Events