

Tuesday, March 20, 2012
POSTER SESSION I: JUPITER AND BEYOND THE INFINITE
6:00 p.m. Town Center Exhibit Area

Simon-Miller A. A. Rogers J. H. Gierasch P. J. Choi D. Allison M. D. Adamoli G. Mettig H.-J.
[*Longitudinal Variation and Waves in Jupiter's South Equatorial Wind Jet*](#) [#1104]

Jupiter's south equatorial winds and clouds are consistent with a high frequency, gravity-inertia, wave. A second, westward-moving, Rossby wave was also identified. Asymmetry with the north equatorial clouds are likely due to the Great Red Spot.

Wilson H. F. Militzer B.

[*Rocky Core Erosion in Jupiter and Giant Exoplanets*](#) [#2873]

We present ab initio calculations which predict significant solubility of rocky materials at the core-mantle boundaries of Jupiter. This implies that cores of Jupiter and larger exoplanets are likely to be at least partially eroded.

Thom N. Jackson B.

[*Atmospheric Mass Loss and Orbital Evolution of Exoplanets*](#) [#2717]

The distribution and evolution of exoplanets are a product of many factors, including atmospheric mass loss and tidal forces. These two effects are coupled here in order to explain the gaps in the distribution of mass and semi-major axes.