Campbell C. L.  Kling A.  Haberle R. M.  Moores J. E.  
*POSTER LOCATION #453*
*Estimating the Altitude of Martian Clouds at the Mars Science Laboratory Rover Landing Site [1825]*
Wind speed and direction, found through NavCam Zenith movies, will be compared to MRAMS model data to estimate the height of clouds above Curiosity.

Cooper B. A.  Modestino R.  Smith C. L.  Moores J. E.  
*POSTER LOCATION #454*
*Characterizations of Martian Water-Ice Cloud Crystal Geometries from Phase Functions Derived Using MARCI Image Data [1360]*
Our work seeks to derive the phase function of martian water-ice clouds and determine the dominant geometries of their ice crystals.

Jakosky B. M.  Edwards C. S.  
*POSTER LOCATION #455*
*Can Mars Be Terraformed? [1193]*
Terraforming Mars would involve putting enough CO₂ back into the atmosphere to provide substantial greenhouse warming. Is enough CO₂ available to do this? No.

Haberle R. M.  Zahnle K.  
*POSTER LOCATION #456*
*Impact Delivery of Reduced Greenhouse Gases on Early Mars [2338]*
We develop a simple model for the delivery and sustainability of reduced greenhouse gases on early Mars as a way to solve the faint young sun paradox.

Martinez G. M.  Vicente-Retortillo A.  Renno N. O.  Gomez-Elvira J.  
*POSTER LOCATION #457*
*Generation of UV Radiation Data at Gale Crater by Correcting REMS UV Measurements from Dust Deposition and Sensor’s Angular Response [1842]*
We present a methodology to correct the highest-level REMS UV fluxes from the effects of dust deposition and inaccuracies in the angular response.

Smith C. L.  Moores J. E.  Schuerger A. C.  
*POSTER LOCATION #458*
*The Effect of UV Surface Flux Shielding by Spacecraft Geometries [1623]*
UV radiation affects surface chemistry and habitability. Spacecraft components can shield the surface from UV radiation. We model this on Mars with an RT code.

Cramer E. S.  Dwyer J. R.  Bagheri M.  
*POSTER LOCATION #459*
*Gamma-Ray Emission in Planetary Atmospheres Due to Relativistic Runaway Electron Avalanches [2847]*
In this work, we use a Monte Carlo particle simulation to model electron acceleration associated with lightning discharges in planetary atmospheres.

*POSTER LOCATION #460*
*Jupiter: Low-Latitude Depression of the Ammonia Absorption in Northern Hemisphere [1120]*
We have detected and studied a depression of the 787 nm ammonia absorption band in the Northern hemisphere at low latitudes on Jupiter.

Yang Y.-M.  Buccino D.  Oudrhiri K.  Paik M.  Kahan D. S.  
*POSTER LOCATION #461*
*A Study of Atmospheric and Plasma Disturbances Impacts to JUNO Radio/Gravity Science [3030]*
We investigate impact of atmosphere and plasma perturbations on Juno radio/gravity science measurements.

**POSTER LOCATION #462**

In Situ Measurements of Ions and Neutrals Near Saturn’s F-Ring  [#2735]

We report on the first in-situ measurements of neutrals and low-energy ions acquired during the Cassini transits through Saturn’s F-ring.

Alday J.  Roth L.  Ivchenko N.  Becker T.  Retherford K. D.  

**POSTER LOCATION #463**

Detection of a Hydrogen Corona at Callisto in HST/STIS Lyman-Alpha Images  [#1861]

Study of images taken by the Hubble Space Telescope in December 2001 leads to the first detection of an escaping hydrogen exosphere in Jupiter’s moon Callisto.