Abstract Submitted
for the OSF05 Meeting of
The American Physical Society

Analysis of the Mars Global Surveyor Radio Occultation Data KATHERINE YEAGER, Wright State University Student, JANE FOX COLLABORATION — The Mars Global Surveyor which was launched on November 7, 1996 was designed to orbit Mars over a two year period and collect data on the surface morphology, topography, composition, gravity, atmospheric dynamics, and magnetic field. The surveyor was equipped with several different types of instruments but the one that we were most interested in was the radio transmission relay. With the data obtained from this instrument we have been able to study different aspects of the Martian atmosphere and relate it to the Chapman function. We have been able to show several ways as to how the Chapman function relates to the Martian atmosphere based on several different forms of data.

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Date submitted: 23 Sep 2005 Electronic form version 1.4