

## **Martian Weather and Climate: Initial Results from the Mars Climate Sounder**

D.J. McCleese (1), J.T. Schofield (1), F.W. Taylor (2), S.B. Calcutt (2), M. Foote (1), D. Kass (1), C. Leovy, D. Paige, P. Read (2), R. Zurek (1), W. Abdou (1), O Ahrenson (1), G. Lawson, C. Backus, A. Kleinbohl, S. Lewis, N. Teanby (2), P Irwin (2), P Read (2), S Wood (1), N Bowles (2), M Richardson

(1) Jet Propulsion Laboratory, Pasadena, USA / [daniel.j.mccleese@jpl.nasa.gov](mailto:daniel.j.mccleese@jpl.nasa.gov) / Phone: 818-354-2317

(2) Oxford University, England / [fwt@atm.ox.ac.uk](mailto:fwt@atm.ox.ac.uk) / Phone: +44 01865 272903

The Mars Climate Sounder experiment on the 2006 Mars Reconnaissance Orbiter is the latest attempt, following unfortunate failures with Mars Observer in 1993 and Mars Climate Orbiter in 1999, to characterize the Martian atmosphere with the sort of coverage and precision achieved by terrestrial weather satellites. It is expected to lead to corresponding improvements in our understanding of meteorological phenomena such as surface winds and global dust storms, and to enable improved general circulation models of the Martian atmosphere for climate studies on a range of timescales. Some initial results from the first year of measurements will be presented and described.