

Wednesday, March 18, 2015

[W303]

SPECIAL SESSION: EARLY RESULTS FROM THE MAVEN MISSION I

8:30 a.m. Waterway Ballroom 5

Chairs: Janet Luhmann
Bruce Jakosky

- 8:30 a.m. Jakosky B. M. * Lin R. P. Grebowsky J. M. Luhmann J. G. MAVEN Science Team
[Early MAVEN Results on the Mars Upper Atmosphere and Atmospheric Loss to Space](#) [#1370]
Preliminary results will be presented from observations made during the spacecraft commissioning phase and from the first three months of science observations.
- 9:00 a.m. Eparvier F. G. * Thiemann E. M. B. Chamberlin P. C. Woods T. N.
[Solar EUV Irradiance at Mars: Why We're Measuring It and Why You Should Care](#) [#3001]
Solar EUV irradiance is highly variable and must be known to understand the variability of an atmosphere, in particular for the MAVEN mission to Mars.
- 9:15 a.m. Larson D. E. * Lillis R. J. Dunn P. A. Rahmati A. Cravens T. E. et al.
[The Solar Energetic Particle Experiment on MAVEN: First Results](#) [#2890]
We present first results from the MAVEN Solar Energetic Particle (SEP) Experiment and its relevance to understanding the loss of the martian atmosphere.
- 9:30 a.m. Halekas J. S. * Mitchell D. L. McFadden J. P. Larson D. Connerney J. E. P. et al.
[MAVEN Observations of the Martian Magnetosphere and Its Response to Solar Wind Drivers](#) [#1379]
We present the first observations of the structure and dynamics of the martian magnetosphere from MAVEN.
- 9:45 a.m. Mitchell D. L. * Mazelle C. McFadden J. P. Larson D. Halekas J. S. et al.
[MAVEN Observations of the Martian Ionosphere and Magnetosheath](#) [#3015]
MAVEN SWEA observations of the martian ionosphere and magnetosphere.
- 10:00 a.m. Mahaffy P. R. * Benna M. Elrod M. Bougher S. W. Yelle R. et al.
[Early Composition, Structure, and Isotope Measurements in the Upper Atmosphere of Mars from MAVEN's Neutral Gas and Ion Mass Spectrometer](#) [#1981]
First in situ measurements of upper atmospheric structure and composition from MAVEN's Neutral Gas and Ion Mass Spectrometer are reported.
- 10:15 a.m. Schneider N. M. McClintock W. E. Stewart A. I. F. Deighan J. * Clarke J. T. et al.
[First Results from MAVEN's Imaging UV Spectrograph](#) [#2647]
Early results from MAVEN's Imaging UV Spectrograph reveal a wealth of information about the atmosphere's structure, variability, and processes leading to escape.
- 10:30 a.m. Zurek R. W. * Tolson R. H. Bougher S. W. Baird D. Kass D. et al.
[Characterization of the Martian Thermosphere Using MAVEN Accelerometer and Reaction Wheel Datasets: Early Mission Results](#) [#2039]
Thermospheric density profiles are currently being derived using MAVEN reaction wheel and accelerometer data, including the first "deep dip" campaign.
- 10:45 a.m. Connerney J. E. P. * Espley J. Oliverson R. Sheppard D. Dibraccio G.
[First Results from the MAVEN Magnetic Field Investigation](#) [#1080]
Discussion of results of the MAVEN Magnetic Field Investigation (about Mars) acquired during the first few months in orbit, including Comet Siding Spring observations.

- 11:00 a.m. Andersson L. * Ergun R. E. Delory G. T. Morooka M. W. Fowler C. M. et al.
[Long Awaited Fundamental Measurement of the Martian Upper Atmosphere from the Langmuir Probe and Waves Instrument on the MAVEN Mission](#) [#2337]
Highlights from the LPW instrument: electron temperature profiles; nightside ionosphere structures; wave-particle interactions; and the dust.
- 11:15 a.m. McFadden J. P. * Livi R. Luhmann J. Connerney J. Mitchell D. et al.
[Structure of the Martian Ionosphere and Atmospheric Loss: MAVEN STATIC First Results](#) [#2899]
MAVEN STATIC provides the first detailed look at the martian ionosphere and the solar wind ionospheric interface where energization and loss mechanisms act.
- 11:30 a.m. Brain D. A. * Dong Y. Fortier K. Fang X. McFadden J. et al.
[MAVEN Measurements of the Ion Escape Rate from Mars](#) [#2663]
We provide an initial estimate of the loss rate of ions from the martian atmosphere based on the first several months of MAVEN data, and place them in context.