Thursday, March 19, 2015
POSTER SESSION II: IONOSPHERES AND ISOTOPES
6:00 p.m. Town Center Exhibit Area

Masunaga K. Seki K. Terada N. Tsuchiya F. Kimura T. et al. POSTER LOCATION #643
EUV Oxygen Dayglow at Venus Observed by Hisaki [#1776]
Using the Extreme Ultraviolet Spectroscope for Exospheric Dynamics (EXCEED) onboard Hisaki, we study variations of EUV oxygen dayglow in Venus’ thermosphere.

Royer E. M. Esposito L. W. Wahlund J. E. Wilson R. J. POSTER LOCATION #644
Bright and Sudden Nitrogen Emission in the Atmosphere of Titan, While the Satellite was in the Magnetosheath During T-32 [#2573]
On June 13, 2007, Cassini-UVIS observed a sudden, very localized bright nitrogen emission in the atmosphere of Titan, possibly correlated with an electron burst.

Morgan D. D. Dieval C. Gurnett D. A. POSTER LOCATION #645
Intense Vibrations of the Martian Ionosphere Observed by MARSIS Active Sounding During a Sun-Earth-Mars Conjunction [#2198]
We infer that intense vibrations of the martian ionosphere occur as a result of interaction with space weather events.

Madanian H. Cravens T. E. Ledvina S. A. Richard M. S. POSTER LOCATION #646
The Role of Transport in the Ionosphere of Titan [#2014]
The research abstract considers the effects of transport mechanism on the dayside and nightside ion densities in the ionosphere of Saturn’s biggest moon, Titan.

Williamson H. N. Johnson R. E. Leblanc F. Tucker O. J. POSTER LOCATION #647
Parameter Study of Plasma-Induced Atmospheric Sputtering and Heating at Mars [#1554]
We create a direct simulation Monte Carlo model to study a wide range of solar wind conditions and the response of the martian exosphere, leading to escape.

Zahnle K. J. POSTER LOCATION #648
Xenon Fractionation and Archean Hydrogen Escape [#1549]
Xenon alone among the noble gases can escape from planetary atmospheres as an ion.

Kurokawa H. Kurosawa K. Usui T. POSTER LOCATION #649
Escape of Early Martian Atmosphere and Hydrosphere: Constraints from Isotopic Compositions [#1643]
This study of the evolution of the martian isotopic compositions suggests the presence of thick early atmosphere lost during the heavy bombardment period.

Lyons J. R. Stark G. Pack A. de Oliveira N. Nahon L. POSTER LOCATION #650
Oxygen Isotope Fractionation During Spin-Forbidden Photolysis of CO₂: Relevance to the Atmosphere of Mars [#2957]
Broadband spin-forbidden photolysis experiments on CO₂, a key reaction in the Mars atmosphere, yield O₂ with a depletion in O¹⁷, in contrast with earlier work.

Luspay-Kuti A. Mandt K. E. Mousis O. POSTER LOCATION #651
Photodissociative Fractionation of Nitrogen Isotopes in the Atmospheres of Mars, Titan, and Pluto [#2785]
Photolytic fractionation is modeled using low- and high-resolution N cross sections. Photolytic fractionation is more effective on Pluto and Titan than on Mars.