

Tuesday, March 20, 2012
POSTER SESSION I: VENUS ATMOSPHERE AND IONOSPHERE
6:00 p.m. Town Center Exhibit Area

Luhmann J. G. Villarreal M. Ma Y. J. Russell C. T. Wei H. Y. Zhang T. L.
[*The Venus Solar Wind Interaction — Is It Purely Ionospheric?*](#) [#1521]

Reanalysis of magnetic fields observed on Pioneer Venus Orbiter suggests the presence of a persistent hemispheric radial magnetic field bias in the wake above ~250 km. We use a model to ask how a planet-centered weak dipole would manifest itself.

Russell C. T. Strangeway R. J. Leinweber H. Wei H. Y. Daniels J. T. M. Zhang T. L.
[*Dispersion Measurements of Whistler Mode Signals Observed in the Venus Ionosphere with the Venus Express Magnetometer*](#) [#1635]

Whistler mode signals produced by lightning have a distinct falling tone at the Earth. Venus whistler mode signals in the ionosphere has a similar “dispersion” consistent with their shorter travel path.

Markiewicz W. J. Petrova E. Shalygina O. Almeida M. Titov D. V. Limaye S. S. Ignatiev N.
[*Venus Glory and the Unknown UV Absorber*](#) [#2043]

We report on the first observation of a complete glory on top of the Venus clouds captured with the Venus Monitoring Camera (VMC) when the Sun was almost directly behind the Venus Express spacecraft.

Gao P. Zhang X. Crisp D. Bardeen C. G. Yung Y. L.
[*Bimodal Distribution of H₂SO₄ Aerosols in the Upper Atmosphere of Venus*](#) [#2906]

The upwelling of cloud particles and the nucleation of meteoric dust are investigated as possible sources of the bimodal size distribution in the haze particles of Venus’ upper atmosphere.

Limaye S. S. Krauss R. J. Rozoff C. Markiewicz W. J.
[*New Insights into the Hemispheric Vortex Structure and the Cloud Level Circulation of Venus Observed by the Venus Monitoring Camera on Venus Express Orbiter*](#) [#2720]

Since April 2006, the long term imaging coverage of Venus from the Venus Monitoring Camera (on the Venus Express Orbiter) continues to provide new insights into the dynamics of the Venus atmosphere.