

Michaela Villarreal

Education

2018 Geophysics and Space Physics Ph.D., UCLA
2016 Geophysics and Space Physics, M.S., UCLA
2011 Planetary Science, B.A., UC Berkeley

Memberships

American Geophysical Union
American Astronomical Society

Awards

2013-2017 Cota-Robles Fellowship
2013-2017 NASA Space Grant Fellowship
2017 Harold & Mayla Sullwold Fellowship
2015 Wilbur B. Sherman Fellowship

Publications

Villarreal, M.N., C. T. Russell, J.G. Luhmann, W. T. Thompson, T. H. Prettyman, M.F. A'Hearn, M. Küppers, L. O'Rourke, and C. A. Raymond, The Dependence of the Cerean Exosphere on Solar Energetic Particle Events, *ApJL* **838**, L8 (2017).

Villarreal, M.N., C. T. Russell, H. Y. Wei, Y. J. Ma, J. G. Luhmann, R. J. Strangeway, and T. L. Zhang, Characterizing the low-altitude magnetic belt at Venus: Complementary observations from the Pioneer Venus Orbiter and Venus Express, *J. Geophys. Res. Space Physics*, **12**, 2232-2240 (2015).

Jia, Y.D., M.N. Villarreal, C. T. Russell, Possible Ceres Bow Shock Surfaces Based on Fluid Models, *J. Geophys. Res. Space Physics*, **122**, 4976-4987 (2017).

Schorghofer, N., S. Byrne, M.E. Landis, E. Mazarico, T.H. Prettyman, B. E. Schmidt, M. N. Villarreal, J. Castillo-Rogez, C. A. Raymond, and C. T. Russell, The Putative Cerean Exosphere, *ApJ* **850** 85 (2017).

Russell, C. T., et al., Dawn arrives at Ceres: Exploration of a small volatile-rich world, *Science* **353** (6303), 1008-1010 (2016).

Zhang, T. L., W. Baumjohann, C. T. Russell, M.N. Villarreal, J. G. Luhmann, and W. L. Teh, A statistical study of the low-altitude ionospheric magnetic fields over the north pole of Venus, *J. Geophys. Res. Space Physics*, **120**, 6218-6229 (2015).

Luhmann, J.G., Y.J. Ma, M.N. Villarreal, H. Y. Wei, T.L. Zhang, The Venus-solar wind interaction: Is it purely ionospheric?, *Planetary and Space Science* **119**, 36-42 (2015).