PERSONAL DATA:

Michael R. Combi, Freeman D. Miller Collegiate Research Professor
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EDUCATION:

- Ph.D. (Physics), University of Toledo, Toledo, OH, 1979
- M.S. (Physics), University of Toledo, Toledo, OH, 1976
- B.S. (Physics), Manhattan College, Bronx, NY, 1973

HONORS/AWARDS:

- Sigma Xi (1978)
- William H. Leckie Scholar Award, University of Toledo (1978)
- Editor's Letter of Commendation as a referee for the journal *Icarus* (1990 and 1991)
- University of Michigan, College of Engineering, Outstanding Research Scientist Award (1996-1997)
- University of Michigan, Distinguished Research Scientist Award (2003)
- University of Toledo, John J. Turin Outstanding Career Accomplishments Award (2004)
- European Space Agency, Recognition for Outstanding Contribution to the ROSETTA Mission (2005)
- Asteroid 17060 (1999 GX7) named *Mikecombi*. Citation.
  Michael R. Combi (b. 1952) of the University of Michigan is a planetary astronomer who specializes in the detailed modeling of cometary comae. His model for the distribution of water molecules and associated byproducts has been invaluable in understanding a wide variety of coma observations. (2005)
- University of Michigan, Award for Service on SACUA (2007)
- Freeman D. Miller Collegiate Research Professorship (2013)
- NASA RHG Exceptional Achievement for Science for MAVEN (2016)
- NASA Group Achievement Award to MAVEN Science Team (2016)
- Certificate of Appreciation MAVEN Mission (2017)
- NASA Group Achievement Award to University of Michigan Rosetta Modeling Team (2017)
- European Space Agency Certificate in Recognition for Outstanding Contribution to the ESA Rosetta Mission (2017)
- NASA Group Achievement Award to MAVEN Mission Team for unlocking the mysteries of Mars atmosphere loss through exceptional operation and utilization of MAVEN (2018)

PROFESSIONAL EXPERIENCE:

- 2013-present, Freeman D. Miller Collegiate Research Professor, Dept. of Climate and Space Sciences and Engineering, Univ. of Michigan,
- 2003-2013, Research Professor and Distinguished Senior Research Scientist, Dept. of Atmospheric, Oceanic and Space Sciences, Univ. of Michigan,
- 2001-2003 Senior Research Scientist, Dept. of Atmospheric, Oceanic and Space Sciences, Univ. of Michigan
- 1993-2001 Research Scientist, Dept. of Atmospheric, Oceanic and Space Sciences, Univ. of Michigan,
- 1989-1993, Associate Research Scientist, Dept. of Atmospheric, Oceanic and Space

Sciences, Univ. of Michigan
- 1981-1989, Staff Scientist and Senior Staff Scientist, Atmospheric and Environmental Research, Inc., Cambridge, MA.
- 1979-1981, Post-Doctoral Research Associate, Department of Physics and Astronomy, University of Toledo, Toledo, OH.

PROFFESIONAL MEMBERSHIPS:

- American Astronomical Society (and Division for Planetary Sciences)
- American Geophysical Union
- International Astronomical Union
- American Association for the Advancement of Science
- European Geophysical Union

PROFESSIONAL ACTIVITIES:

- Editor, planetary science journal *Icarus*
- SSB Committee for Planetary and Lunar Exploration (COMPLEX)
- Co-Editor, Comets III
- NASA Planetary System Science Management Operations Working Group
- Science Definition Team: Comet Surface Sample Return Mission
- NASA Planetary Astronomy Review Panel Chair and Member, CRAF Peer Review Panel, Planetary Data Systems/Small Bodies Nodes Review Panel, and Hubble Space Telescope Solar System Review Panel
- Scientific Organizing Committee, First International Conference on Comet Hale-Bopp
- Proceedings Editor and Scientific Organizing Committee Advisor, Cometary Science after Hale-Bopp, IAU Colloquium No. 186
- Scientific Organizing Committee for *Comets II*, University of Arizona Press
- Program Committee, 2002 Division for Planetary Sciences Meeting
- Scientific Organizing Committee, Deep Impact as a World Observatory Event
- Director SPRL Research Experiences for Undergraduates Program (1996-2014)
- Principal Investigator and Co-Investigator on numerous projects dealing with distributions of gas and dust in cometary and planetary satellite atmospheres

SCIENTIFIC ACTIVITIES:

- Team Member for the CRAF Visual and Infrared Mapping Spectrometer
- Member of the CRAF Coma and Tail Science Working Group
- Hubble Space Telescope Guest Observer
- International Ultraviolet Explorer Guest Observer
- SOHO Guest Investigator
- Co-Investigator, Rosetta VIRTIS Team
- Co-Investigator, Rosetta ROSINA Team
- Collaborator, Rosetta ALICE Team
- Participating Scientist, MAVEN mission

UNIVERSITY ACTIVITIES:

- Executive Committee, Department of Atmospheric, Oceanic and Space Sciences (now Department of Climate and Spaces Sciences and Engineering)
- Advisory Committee, Space Physics Research Laboratory
- College of Engineering Awards Committee
- University Research Scientist Awards Committee
- Faculty Senate Assembly
- Senate Advisory Committee on University Affairs
- Research Policies Committee
- Senate Assembly Committee on Financial Affairs
- Government Relations Advisory Committee

- Vice President for Research Search Advisory Committee
- Dean of Engineering Search Advisory Committee
- College of Engineering Research Advisory Committee
- AOSS Chair Search Advisory Committee
- AOSS Internal Review Committee
- AOSS Awards Committee
- CLaSP Chair Search Advisory Committee
- Chair and member of numerous promotion and hiring committees

PH.D. THESIS COMMITTEE CHAIR:

- Konstantin Kabin – 2000
- Valeriy Tenishev – 2006
- Ying-Dong Jia – 2007
- Arnaud Valeille – 2009
- Nicolas Fougere – 2014
- Yuni Lee – 2014
- Yinsi Shou – 2016

PH.D. THESIS COMMITTEE MEMBER:

- Claudia Alexander (AOSS) – 1993
- Taro Ueki (NERS) – 1998
- Danny Ray Tolar, Jr. (NERS) – 1999
- Yifan Liu (AOSS) – 2000
- Kenneth C. Hansen (AOSS) – 2001
- Kandis Lea Jessup (AOSS) – 2001
- Xiaohua Fang (AOSS) – 2006
- Jonathan Burt (Aero) – 2006
- Thomas Schwarzenruber (Aero) – 2007
- Eugene Fahnestock (Aero) –2009
- Sharyl Byram (Aero) –2009
- Jinan Yang (NERS) –2011
- Christopher Moore (U. Texas) -- 2011
- Eunji Jun (Aero) -- 2012
- Ashley Verhoff (Aero) -- 2015
- Changyuan Liu (NERS) -- 2015
- Shaosui Xu (CLaSP - formerly AOSS) -- 2015

M.S. THESIS RESEARCH ADVISOR:

- Scott Cochran – 1994-1996
- Gregory Bee – 2007-2009

UNDERGRADUATE RESEARCH ADVISOR:

- Brent Bos – 1991 (REU)
- Scott Cochran – 1992 (REU)
- Patrick Beaudette – 1993 (REU)
- Joseph Formaggio – 1994 (REU)

- Mark Lennigan – 1996 (REU)
- Ryan Tyler – 1998 (Independent Study project)
- Nathaniel Henry – 2005 (UROP); 2006-2007 (Independent research)
- Yuni Lee – 2006-2008 (UROP)
- Zachary Boyd – 2008 (UROP); 2009-2012 (Independent research)
- Tapan Patel – 2009 (UROP); 2010-2012 (Independent research)
- Vidya Sagar Reddy Avuthu -2010-2011 (Independent Study project)
- Gabriel Aptekar -2012-2013 (UROP)
- Samuel Reed - 2013-2014 (UROP)
- Courtney Wright - 2014-2015 (UROP)
- Megan Avery - 2015-2016 (UROP)
- Ruben Coronel - 2018-2019 (UROP)

POSTDOCTORAL FELLOWS:

- Roman Häberli (1995-1997)
- Rainer Bauske (1998-2000)
- Valeriy Tenishev (2006-2007)
- O.J. Tucker (2012- 2014)
- Nicolas Fougere (2014 - 2017)
- Yuni Lee (2014 - 2016)
- Yinsi Shou (2017 -)

BOOK REVIEW:

Physics and Chemistry of Comets, edited by W.F. Huebner, Springer Verlag, Berlin, 1990, published in Icarus, vol. 94, 256 (1991)

BOOKS EDITED:

1. Cometary Science after Hale-Bopp, Volumes 1 and 2, Eds. H. Boehnhardt, M. Combi, M. Kidger, and R. Schultz, Kluwer, Dordrecht (2002)
2. Deep Impact at Comet Tempel 1, Eds. M.F. A'Hearn and M.R. Combi, Elsevier, San Diego, (2007)

REFEREED BOOK CHAPTERS:

1. Gas Dynamics and Kinetics in the Cometary Coma: Theory and Observations. M.R. Combi, W.M. Harris, W.H. Smyth. In *Comets II* (M.C. Festou, H. U. Keller, H. A. Weaver, eds.), U. Arizona Press, Tucson, p. 523-552, 2004.
2. Spectoscopic Investigations of Fragment Species in the Coma. P.D. Feldman, A.L. Cochran, M.R. Combi. In *Comets II* (M.C. Festou, H. U. Keller, H. A. Weaver, eds.), U. Arizona Press, Tucson, p. 425-447, 2004.
3. The plasma environment of Comet 67P/Churyumov-Gerasimenko throughout the Rosetta main mission. Hansen, K.C., T. Bagdonat, U. Motschmann, C. Alexander,M.R. Combi, T.E. Cravens, T.I. Gombosi, Y.-D. Jia, and I.P. Robertson. In *Rosetta: ESA's Mission to the Origin of the Solar System*, edited by R. Schultz, C. Alexander, H. Boehnhardt, C.-H. Glassmeier, Springer, 2008.
4. Plasma Flow and Related Phenomena in Planetary Aeronomy. Y.-J. Ma, K. Altwegg, T. Breus, M.R. Combi, T.E. Cravens, E. Kallio, S.A. Ledvina, J.G. Luhmann S. Miller, A.F. Nagy, A.J. Ridley, D.F. Strobel. In *Comparative Aeronomy*, edited by Andrew F. Nagy, André Balogh, Thomas E. Cravens, Michael Mendillo, Ingo Müller-Wodarg, Springer, 2008.

5. Neutral Upper Atmosphere and Ionosphere Modeling. Bougher, Stephen W., Blelly, Pierre-Louis, Combi, Michael, Fox, Jane L., Mueller-Wodarg, Ingo, Ridley, Aaron, Roble, Raymond G. In *Comparative Aeronomy*, edited by Andrew F. Nagy, André Balogh, Thomas E. Cravens, Michael Mendillo, Ingo Müller-Wodarg, Springer, 2008.
6. Exospheres and Atmospheric Escape. Johnson R.E., M.R. Combi, J.L. Fox, W.-H. Ip, F. Leblanc, M.A. McGrath, V.I. Shematovich, D.F. Strobel, J.H. Waite Jr. In *Comparative Aeronomy*, edited by Andrew F. Nagy, André Balogh, Thomas E. Cravens, Michael Mendillo, Ingo Müller-Wodarg, Springer, 2008.

EDITORIALS:

1. Deep Impact at Comet Tempel 1. M.F. A'Hearn, M.R. Combi. *Icarus* **187**, 1-3, 2007.
2. Deep Impact at Comet Tempel 1: Part 2. M.F. A'Hearn, M.R. Combi. *Icarus* **190**, 283, 2007.
3. The solar wind interaction with Mars: Recent progress and future directions. Brain, D. A., Hurley, D., Combi, M. R. *Icarus* **206**, 1-4, 2010.
4. Introduction: Low-budget extended missions to comets. M.F. A'Hearn, M.R. Combi, J. Veverka. *Icarus* **222**, 421-423.

REFEREED JOURNAL PUBLICATIONS:

1. Production Rate and Possible Origin of $O(^1D)$ in Comet Bennett. A.H. Delsemme and M.R. Combi. *Astrophys.J. Lett.* **209**, L149-L151, 1976.
2. Production Rate and Origin of H_2O^+ in Comet Bennett. A.H. Delsemme and M.R. Combi. *Astrophys.J. Lett.* **209**, L153-L156, 1976.
3. Convolution of Cometary Brightness Profiles by Circular Diaphragms. M.R. Combi. *Astron. J.* **83**, 1459-1466, 1978.
4. $O(^1D)$ and H_2O^+ in Comet Bennett (1970II). A.H. Delsemme and M.R. Combi. *Astrophys. J.* **228**, 330-337, 1979.
5. Neutral Cometary Atmospheres. I. An Average Random Walk Model for Photodissociation in Comets. M.R. Combi and A.H. Delsemme. *Astrophys. J.* **237**, 633-640, 1980.
6. Neutral Cometary Atmospheres. II. The Production of CN in Comets. M.R. Combi and A.H. Delsemme. *Astrophys. J.* **237**, 641-645, 1980.
7. Brightness Profiles of CO^+ in the Ionosphere of Comet West. M.R. Combi and A.H. Delsemme. *Astrophys. J.* **238**, 381-387, 1980.
8. Neutral Cometary Atmospheres. III. The Acceleration of Cometary CN by Solar Radiation Pressure. M.R. Combi. *Astrophys. J.* **241**, 830-837, 1980.
9. Neutral Cometary Atmospheres. IV. Brightness Profiles in the Inner Coma of Comet Kohoutek (1973XII). A.H. Delsemme and M.R. Combi. *Astrophys. J.* **271**, 388-397, 1983.
10. Io's Sodium Directional Features: Direct Evidence for a Magnetospheric-Wind-Driven Gas Escape Mechanism. C.B. Pilcher, W.H. Smyth, M.R. Combi and J.H. Fertel. *Astrophys. J.* **287**, 427-444, 1984.
11. Pioneer Venus Lyman-α Observations of Comet P/Giacobini-Zinner and the Life Expectancy of Cometary Hydrogen. M.R. Combi, A.I.F. Stewart, and W.H. Smyth. *Geophys. Res. Lett.* **13**, 385-388, 1986.
12. Neutral Cometary Atmospheres. V. C_2 and CN in Comets. M.R. Combi and A.H. Delsemme. *Astrophys. J.* **308**, 472-484, 1986
13. Sources of Cometary Radicals and Their Jets: Gases or Grains. M.R. Combi, *Icarus* **71**, 178-191, 1987.
14. Correlating East-West Asymmetries in the Jovian Magnetosphere and the Io Sodium Cloud. W.H. Smyth and M.R. Combi. *Geophys. Res. Lett.* **14**, 973-976, 1987.
15. Monte Carlo Particle Trajectory Models for Neutral Cometary Gases. I. Models and Equations. M.R. Combi and W.H. Smyth. *Astrophys. J.* **327**, 1026-1043, 1988.

16. Monte Carlo Particle Trajectory Models for Neutral Cometary Gases. II. The Spatial Morphology of the Lyman-alpha Coma. M.R. Combi and W.H. Smyth. *Astrophys. J.* **327**, 1044-1059, 1988.
17. A General Model for Io's Neutral Gas Clouds: Mathematical Description. W.H. Smyth and M.R. Combi. *Astrophys. J. Suppl.* **66**, 397-411, 1988.
18. A General Model for Io's Neutral Gas Clouds: Application to the Sodium Cloud. W.H. Smyth and M.R. Combi. *Astrophys. J.* **328**, 888-918, 1988.
19. The Outflow Speed of the Coma of Halley's Comet. Michael R. Combi. *Icarus* **81**, 41-50, 1989.
20. High Resolution Spectra of the 6300Å Region in Comet P/Halley. M.R. Combi and R.E. McCrosky. *Icarus* **91**, 270-279, 1991.
21. Analysis of the Pioneer-Venus Lyman-α Image of the Hydrogen Coma of Comet P/Halley. William H. Smyth, Michael R. Combi and A. I. F. Stewart. *Science* **253**, 1008-1010, 1991.
22. P/Halley: Spatial Distributions and Scale Lengths for C_2, CN, NH_2 and H_2O. Uwe Fink, Michael R. Combi, and Michael A. DiSanti. *Astrophys. J.* **383**, 356-371, 1991.
23. The Sodium Zenocorona. William H. Smyth and Michael R. Combi. *J. Geophys. Res.* **96**, 22711-22727, 1991.
24. IUE Observations of HI Lyman-α in Comet P/Giacobini-Zinner. Michael R. Combi and Paul D. Feldman. *Icarus* **97**, 260-268, 1992.
25. The OH Distribution in Cometary Atmospheres: A Collisional Monte Carlo Model for Heavy Species. M.R. Combi, B.J. Bos and W.H. Smyth. *Astrophys. J.* **408**, 668-677, 1993.
26. P/Halley: Effects of time-dependent production rates on spatial emission profiles. M.R. Combi and U. Fink. *Astrophys. J.* **409**, 186-194, 1993.
27. Water Production Rates in Comet P/Halley from IUE Observations of HI Lyman-α. M.R. Combi and P.D. Feldman. *Icarus* **105**, 557-567, 1993.
28. A Coulomb Collision Algorithm for Weighted Particle Simulations. R.H. Miller and M.R. Combi. *Geophys. Res. Lett.* **21**, 1735-1738, 1994.
29. The Fragmentation of Dust in the Inner Comae of Comets. M.R. Combi. *Astron. J.* **108**, 304-312, 1994.
30 .Time-Dependent Analysis of 8 Days of CN Spatial Profiles in Comet P/Halley. M. Combi, B. Huang, A. Cochran, U. Fink, R. Schulz. *Astrophys. J.* **435**, 870-873, 1994.
31. Observations and Analysis of O(^{1}D) and NH_2 Line Profiles for the Coma of Comet P/Halley. W.H. Smyth, M.R. Combi, F.L. Roesler, and F. Scherb. *Astrophys. J.* **440**, 349-360, 1995.
32. Analysis of Hydrogen Lyman-α Observations of the Coma of Comet P/Halley near Perihelion. W.H. Smyth, M.L. Marconi, and M.R. Combi. *Icarus* **113**, 119-128, 1995.
33. Far-ultraviolet Emissions during the Impact of Comet Shoemaker-Levy 9 with Jupiter. Ballester, G. et al. (including M. R. Combi). *Geophys. Res. Lett.* **22**, 2425-2428, 1995.
34. Ponderomotive Acceleration in the Auroral Region: A Kinetic Simulation. R. Miller, C. Rasmussen, M. Combi, T. Gombosi, and D. Winske. *J. Geophys. Res.* **100**, 23901-23916, 1995
35. Time-Dependent Gas Kinetics in Tenuous Planetary Atmospheres: The Cometary Coma. M.R. Combi. *Icarus* **123**, 207-226, 1996.
36. Io's Sodium Corona and Spatially Extended Cloud: A Consistent Flux Speed Distribution. Smyth, W.H. and M.R. Combi. *Icarus* **126**, 58-77, 1997.
37. Modeling of Cometary X-rays Caused by Solar Wind Minor Ions. Häberli, R.M., T.I. Gombosi, D.L. DeZeeuw, M.R. Combi, and K.G. Powell. *Science* **276**, 939-942, 1997.
38. A Critical Study of Molecular Photodissociation and CHON Grain Sources for Cometary C_2. Combi, M.R. and U. Fink. *Astrophys. J.* **484**, 879-890 1997.

39. Evidence for Interacting Gas Flows and an Extended Volatile Source Distribution in the Coma of Comet C/1996 B2 (Hyakutake). W. M. Harris, M.R. Combi, R.K. Honeycutt, B.E.A Mueller, F. Scherb. *Science* **277**, 676-681, 1997.
40. The Spatial Distribution of Gaseous Atomic Sodium in the Comae of Comets: Evidence for Direct Nucleus and Extended Plasma Sources. M.R. Combi, M.A. DiSanti, U. Fink. *Icarus* **130**, 336-354, 1997.
41. Quantitative Analysis of H_2O^+ Coma Images Using a Multiscale MHD Model with Detailed Ion Chemistry. R.M. Haberli, M.R. Combi, T.I. Gombosi, D.L. DeZeeuw, K.G. Powell. *Icarus* **130**, 373-386, 1997.
42. Hubble Space Telescope Ultraviolet Imaging and High Resolution Spectroscopy of Water Photodissociation Products in Comet Hyakutake (C/1996 B2). M.R. Combi, M.E. Brown, P.D. Feldman, H.U. Keller, R.R. Meier, W.H. Smyth. *Astrophys. J.* **494**, 816-821, 1998.
43. Io's Plasma Environment during the Galileo Flyby: Global Three-Dimensional MHD Modeling with Adaptive Mesh Refinement. M.R. Combi, K. Kabin, T.I. Gombosi, D.L. DeZeeuw, K.G. Powell. *J. Geophys. Res.* **103** (A5), 9071-9081 1998.
44. VIRTIS : An Imaging Spectrometer for the Rosetta Mission. A. Coradini et al. (including M.R. Combi). *Planetary and Space Science* **46**, 1291-1304, 1998.
45. Observation and Analysis of High-Resolution Optical Line Profiles in Comet Hyakutake (C/1996 B2). M.R. Combi, A.L. Cochran, W.D. Cochran, D.L. Lambert, and C.M. Johns-Krull. *Astrophys. J.* **521**, 961-968, 1999.
46. On Europa's Magneospheric Interaction: An MHD Simulation of the E4 Flyby. K.Kabin, M.R. Combi, T.I. Gombosi, A.F. Nagy, D.L. DeZeeuw, and K.G. Powell. *J. Geophys. Res.* **104**, 19983-19992, 1999.
47. Dust-Gas Interrelations in Comets: Observations and Theory. M.R. Combi, K. Kabin, D.L. DeZeeuw, T.I. Gombosi, and K.G. Powell. *Earth, Moon, & Planets* **79**, 275-306, 1997-1999.
48. Modeling the Solar Wind-Comet Interaction. T.I. Gombosi, K. Hansen, D.L. DeZeeuw, M.R. Combi, and K.G. Powell. *Earth, Moon, & Planets* **79**, 179-207, 1997-1999.
49. Analysis of Mid-Latitude Auroral Emissions Observed During the Impact of Comet Shoemaker-Levy 9 With Jupiter. R. Bauske, M.R. Combi, J.T. Clarke. *Icarus* **142**, 106-115, 1999.
50. Multiple Scattering of Hydrogen Lyman-α Radiation in the Coma of Comet Hyakutake (C/1996 B2). K. Richter, M.R. Combi, H.U. Keller, and R.R. Meier. *Astrophys. J.* **531**, 599-611, 2000.
51. SOHO/SWAN Observations of the Structure and Evolution of the Hydrogen Lyman-α Coma of Comet Hale-Bopp (1995 O1). M.R. Combi, A.A. Reinard, J.-L. Bertaux, E. Quemerais, and T. Mäkinen. *Icarus* **144**, 191-202, 2000.
52. Two-Species 3D MHD Simulation of Europa's Interaction with Jupiter's Magnetosphere. Y. Liu, A.F. Nagy, K. Kabin, M.R. Combi, D.L DeZeeuw, T.I. Gombosi, K.G. Powell. *Geophys. Res. Lett.* 27, 1791-1794, 2000.
53. Global MHD Simulations of Space Plasma Environments: Heliosphere, Comets, Magnetospheres of Planets and Satellites. K. Kabin, K.C. Hansen, T.I. Gombosi, M.R. Combi, T.J. Linde, D.L. DeZeeuw, C.P.T. Groth, K.G. Powell, A.F. Nagy. *Astrophys. Space Sci.* **274**, 407-421, 2000.
54. Io's Magnetospheric Interaction: An MHD Model with Day-Night Asymmetry. K. Kabin, M.R. Combi, T.I. Gombosi, K.C. Hansen, K.G. Powell. *Planet. Space Sci.* **49**, 337-343, 2001.
55. The Interaction between the Magnetosphere of Saturn and Titan's Ionosphere. Nagy, A.F., Y. Liu, K.C. Hansen, K. Kabin, T.I. Gombosi, M.R. Combi, D.L. DeZeeuw, K.G. Powell and A.U. Kliore. *J. Geophys. Res.* **106**, 6151-6160, 2001.

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58. Large Aperture [OI] 6300 Å Photometry of Comet Hale-Bopp: Implications for the Photochemistry of OH. J.P Morgenthaler, W.M. Harris, F. Scherb, C.M. Anderson, R.J. Oliversen, N.E. Doane, M.R. Combi, M.L. Marconi, W.H. Smyth. *Astrophys. J.* **563**, 451-461, 2001.
59. Plasma Flow Past Cometary and Planetary Satellite Atmospheres, M.R. Combi, T.I. Gombosi, K. Kabin. In *Atmospheres in the Solar System : Comparative Aeronomy, Geophysical Monograph 130,* 151-167, 2002.
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62. The Outer Source of Pickup Ions and Anomalous Cosmic Rays. N Schwadron, M. Combi, W. Huebner, and D.J. McComas. *Geophys. Res. Let.* **29**, 54-1 - 54-4, 10.1029/2002GL015829, 2002.
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