

Michael Mendillo

- Education:** Boston University Graduate School, Boston, Massachusetts
Ph.D. in Physics and Astronomy, 1971;
M.A. in Physics and Astronomy, 1968
Providence College, Providence, Rhode Island
B.S. in Physics, cum laude, 1966
- Membership:** American Geophysical Union (AGU)
American Astronomical Society (AAS);
Division of Planetary Science; History Division
International Union of Radio Science (URSI)
International Astronomical Union (IAU)
- Address:** Boston University
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- Positions:** Professor of Astronomy, 1985 to present
Professor of Electrical and Computer Engineering, 1993 to present
Associate Dean for the Graduate School, 1978 to 1987
Associate Professor of Astronomy, 1978-1985
Assistant Professor of Astronomy, 1971-1972, 1974-1978
National Research Council/National Academy of Sciences
Post-doctoral Research Associate, 1972-1974,
Air Force Cambridge Research Laboratories
- Research Fields:** Space Physics, Solar-Terrestrial Relations, Comparative Aeronomy,
Active Experiments in Space Plasmas, Planetary Astronomy,
History of Astronomy, History of Geophysics, Celestial Cartography
- Major Research Programs:** NASA Spacelab-2 Mission (1977-86)
NASA SPINEX Rocket Program (1984-86)
NASA ERIC & RED AIR-1 Rocket Programs (1987-89)
NASA RED AIR-2 Rocket Program (1990-1992)
NASA CRRES Mission (1984-92)
NASA Boston University's Mobile Ionospheric Observatory (1983-1991)
NSF CEDAR Imager at Millstone Hill (1987-present)
NSF CEDAR Optical Tomographic Imaging Facility (COTIF) (1991-1999)
ONR Equatorial Aeronomy in South America (1992-present)
NASA Sodium Atmospheres of Solar System Bodies (1989 - present)
NASA Mars Data Analysis Program (1999-present).
NASA Saturn-Thermosphere-Ionosphere-Model (STIM) (2002-present)
- Teaching Experience:** General Astronomy for Non-Science Majors (undergraduate), Space Physics (graduate), Celestial Mechanics (graduate), History of Astronomy (undergraduate); Celestial Navigation (undergraduate)

- Awards:** Elected Fellow of the American Geophysical Union, May, 2000
 Elected President for Space Physics & Aeronomy (SPA) Section,
 American Geophysical Union, 2004-2006
 Elected Foreign Corresponding Member, Galilean Academy of
 Science, Letters and Arts, Padova, Italy, March, 2005
 Elected Foreign Associate Member, Royal Astronomical Society,
 London, May, 2005
- Service:** Membership and/or Chairmanship of Science Advisors Committees at
 National Science Foundation, NASA, National Academy of Sciences'
 Space Studies Board, Naval Research Laboratory, Air Force Geophysics
 Laboratory and American Geophysical Union.
 Membership and/or Chairmanship of many BU academic committees.
 Committee of Visitors: University of Michigan; Boston College

SOME REPRESENTATIVE RECENT PUBLICATIONS

---- Terrestrial Aeronomy, Planetary Astronomy, History of Celestial Cartography

Mendillo, M., Storms in the Ionosphere: Patterns and Processes for Total Electron Content, Reviews of Geophysics, 47, RG4001, doi:10.1029/2005RG000193, 2006.

Martinis, C., **M. Mendillo**, and J. Aarons, Toward a synthesis of equatorial spread-F (ESF) onset and suppression during geomagnetic storms, J. Geophys. Res., 110, A07306, doi:10.1029/2003JA010362, 2005.

Mendillo, M., S. Laurent, J. Wilson, J. Baumgardner, J. Konrad, and W. C. Karl, The sources of sodium escaping from Io revealed by spectral high definition imaging, Nature, 448, 330-332, 2007.

Mendillo, M., P. Withers, D. Hinson, H. Rishbeth, and B Reinisch, Effects of solar flares on the ionosphere of Mars, Science, 311 1135-1138, doi:10.1126/science.1122099, 2006.

Mendillo, M., and J. Baumgardner, Constraints on the origin of the Moon's atmosphere from observations during a solar eclipse, Nature, 377, 404-406, 1995.

Mendillo, M., L. Moore, J. Clarke, I. Mueller-Wodarg, W. Kurth, and M. Kaiser, Effects of ring shadowing on the detection of electrostatic discharges at Saturn, Geophys. Res. Lett., 32, L05107, doi:10.1029/2004GL021934, 2005.

Schmidt, C., J. K. Wilson, J. Baumgardner, and **M. Mendillo**, Orbital effects on Mercury's escaping sodium exosphere, Icarus, 207, 9-16, 1010.

CELESTIAL IMAGES EXHIBITION: Antiquarian Astronomical Charts and Maps from the Mendillo Collection (S. McCarroll, Curator), U.Washington Press, Seattle, 2005.

Mendillo, M., The Appearance of the Medicean Moons in 17th Century Charts and Books: How long did it take?, in *Galileo's Medicean Moons: Their Impact on 400 Years of Discovery*, C. Barbieri et al. (eds.), Cambridge Univ. Press, Cambridge, 2010.