

# Solar System Imaging with the Hubble Space Telescope

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The Hubble Space Telescope has performed ground-breaking observations on virtually every type of solar system object, despite the fact that solar system observations constitute only a small fraction of the observing time on the telescope. This talk will provide an overview of the types of solar system imaging observations Hubble has performed. Highlights include the spectacular auroral imaging of the outer planets and satellites Jupiter, Saturn, Io and Ganymede, the Comet Shoemaker-Levy 9 impacts with Jupiter in 1994, and the unparalleled high-resolution images of Titan and Pluto.

Melissa McGrath is a member of the senior science staff at the Space Telescope Science Institute in Baltimore, Maryland, where she has been since 1992. She received her BA in Physics & Astronomy from Mt. Holyoke College, and MA and PhD degrees in astronomy from the University of Virginia. She was then a postdoctoral fellow and Associate Research Scientist in the Johns Hopkins University Department of Physics and Astronomy before moving to STScI. Her research expertise includes imaging and spectroscopic studies of the upper atmospheres and magnetospheres of the outer planets; outer planet satellite atmospheres; and the Io plasma torus. She has been the Principal Investigator on numerous space and ground-based observing programs. She currently heads STScI's Community Missions Office, which is charged with managing the institute's non-HST and JWST mission support, and pursuing new initiatives.