

## Solar System observations with the James Webb Space Telescope

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The James Webb Space Telescope (JWST) will succeed the Hubble Space Telescope as NASA's premier space-based platform for observational astronomy. This 6.5-meter telescope, which is optimized for observations in the near and mid infrared, will be equipped with four state-of-the-art instruments, which include imaging, spectroscopy, and coronagraphy. These instruments, along with the telescope's moving target capabilities, will enable the infrared study of solar-system objects with unprecedented detail. This poster features highlights for planetary-science applications, extracted from the recent white paper (Norwood et al., 2014). We present a number of hypothetical solar-system observations as a means of demonstrating potential planetary-science observing scenarios; the list of applications discussed here is far from comprehensive. The goals of this poster and white paper are to stimulate discussion and encourage participation in JWST planning among members of the planetary-science community, and to encourage feedback to the JWST Project on any desired observing capabilities, data products, and analysis procedures that would enhance the use of JWST for solar-system studies. This latest work provides the latest observatory and instrument capabilities and expands upon earlier studies of JWST solar-system opportunities (Lunine et al., 2010).

**References:** Lunine, J., Hammel, H., Schaller, E., Sonneborn, G., Orton, G., Rieke, G., and Rieke, M. 2010, JWST Planetary Observations within the Solar System, <http://www.stsci.edu/jwst/doc-archive/white-papers>; Norwood, J., Hammel, H., Milam, S., Stansberry, J., Lunine, J., Chanover, N., Hines, D., Sonneborn, G., Tiscareno, M., Brown, M. and Ferruit, P., 2014, ArXiv e-prints, 1403.6845.