



# NASA/JPL's UAVSAR

Uninhabited Aerial Vehicle Synthetic Aperture Radar

Polarimetric SAR image of Hofsjokull, Iceland (June 12, 2009)

*The blue areas are bare ground surfaces and the green areas are ice.*

National Aeronautics and  
Space Administration



UAVSAR is an airborne testbed to evaluate the tools and technologies for future space-based radars, such as those planned for a NASA mission currently in formulation called the Deformation, Ecosystem Structure, and Dynamics of Ice, or DESDynI.



UAVSAR is an imaging radar system that currently flies on the NASA Gulfstream III aircraft operated by NASA's Dryden Flight Research Center. Earthquakes, volcanoes, soil moisture changes, vegetation characteristics, and glaciers are among the subjects that NASA scientists are using UAVSAR data to study. Recently, the system has been upgraded to support imaging at both shorter (Ka-band) and longer (P-band) wavelengths than the current L-band (23 cm wavelength) system. Future upgrades include modifications for flight aboard a Global Hawk UAV.

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[www.nasa.gov](http://www.nasa.gov)

**UAVSAR Website:**  
<http://uavsar.jpl.nasa.gov>

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