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## Use of EOS geospatial data for earth science

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Many scientists including those from government and private industry use Earth Observing System (EOS) geospatial data to manage organizational infrastructure, quantify atmospheric and agricultural changes, and plan future development. The diversity and complexity of scientific data pose challenges in how it is managed and shared with a diverse community, visualized intuitively, and fused for answering scientific questions. Spatial data infrastructure for Earth Sciences is built atop frameworks that support satellite imagery, airborne data, climate-weather observations, simulations, and forecasts. Such frameworks allow us to ingest and manage data, generate science products, and develop applications that support end user's needs. This informative poster or session seeks to describe operational systems and workflows for deploying multidimensional, spatio-temporal scientific data for the broader Earth Science community. Join us as we demonstrate how we are supporting NASA's ability to observe global change and address the Agency's strategic objective for Earth Science, which is to advance knowledge of Earth as a system to meet the challenges of environmental change, and to improve life on our planet.

## **Biography**

Brandi Quam is a Program Manager at NASA Langley Research Center where she is leading the development of a GIS Strategy for Earth Science and oversees a portfolio of advanced technology development efforts aligned to the Earth Science Technology Office, Advanced Information Systems Technology Program. Ms. Quam is a U.S. Air Force Veteran, and has spent 15 years leading Remote Sensing Science & Technology efforts across several government agencies – Department of Homeland Security and the Department of Defense; she transitioned to NASA in 2012 to manage the Atmospheric Science Data Center - part of the larger Earth Observing System Data and Information System (EOSDIS). Ms. Quam holds a B.S. in Psychology, an MBA, and is a Certified Project Management Professional (PMP). Additionally, she is working to gain fluency in American Sign Language, is a member of the International Ombudsman Association (IOA), and serves as a Mentor for the NASA Community College of Aerospace Scholars.

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