



TeraGrid Gateways for Earth Science

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The increasingly digital component of science today poses exciting challenges and opportunities for researchers. Whether it's streaming data from sensors to computations, tagging video in the study of language patterns or the use of geographic information systems to anticipate the spread of disease, the challenges are enormous and continue to grow.

The existence of advanced cyberinfrastructure (CI) tools or science gateways can significantly increase the productivity of researchers facing the most difficult challenges - in some cases making the impossible possible. The TeraGrid Science Gateways program works to incorporate high end resources through these community-designed interfaces. This talk will present an overview of TeraGrid's gateway program and highlight several gateways in atmospheric science, earth sciences and geography and regional science, geophysics, global atmospheric research, materials research and seismology.