

Earth System Grid Data, Analysis, and Visualization Tools

Science Mission Directorate

Climate research is of great national importance. From model developers to policy makers, there is an overarching need to efficiently access and manipulate climate model data. The Earth System Grid (ESG) was established to meet the need for a common virtual environment in which to access both climate model datasets and analysis tools. The NASA Center for Climate Simulation (NCCS) at Goddard Space Flight Center is integrating an ESG Data Node into its Data Portal infrastructure to publish simulation datasets for the national and international climate community.

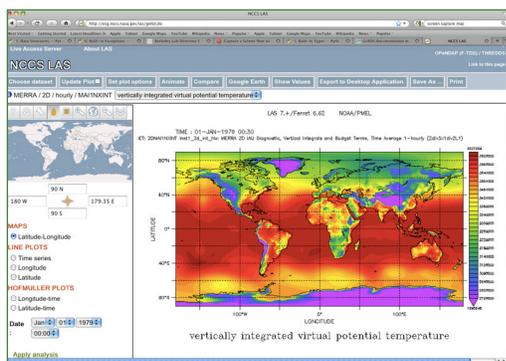
The ESG supports the NASA mission to observe Earth from space and to use data gathered in a scientific research program to better understand our planet as a system and how changes to that system will impact humankind, particularly changes in climate. This effort will multiply the value of NASA's investment in Earth observation by making NASA data more easily available to the broader science community.

Climate change potentially impacts the life of every person on the planet. The ESG was used to supply climate simulation data to scores of scientists who contributed to the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report. This report was instrumental in earning the IPCC a co-share of the 2007 Nobel Peace Prize, along with former U.S. Vice President Al Gore.

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<http://esg.nccs.nasa.gov/tbredds/idd/merra-cf.html?dataset=MERRA-MAIMNPANA-CF>



Earth System Grid (ESG) data displayed using the NCCS Live Access Server (LAS).

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