

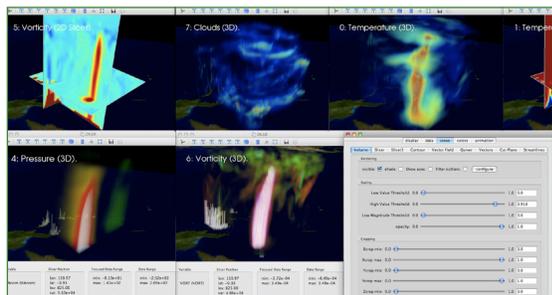
NCCS Climate Simulation Data Analysis

Science Mission Directorate

Climate change impacts the life of every person on our planet. The climate simulation data analysis work at the NASA Center for Climate Simulation (NCCS) at Goddard Space Flight Center will contribute directly to ongoing analysis and assessment of the state of the global climate system.

Earth system scientists are experiencing an explosion of data generated by the ever-increasing resolution in global models and remote sensors. The growing size of the datasets makes scientific analysis using desktop applications increasingly difficult—prompting the need for high-performance data analysis and visualization capabilities closely linked to data archives. To meet this need, NCCS installed a high-performance server for large-scale data analysis and visualization.

This effort directly supports the NASA mission to use remote sensing data and global models to better understand Earth system dynamics. Analysis of observational and model data is essential to understanding how changes to Earth system processes (for example, climate) will impact humankind. This effort will facilitate the analysis of Earth system data by both Agency scientists and a broader audience through the Earth System Grid.



The DV3D application provides distributed, user-friendly 3D visualization tools for the climate scientist's desktop or hyperwall.

This service allows unprecedented access to high-performance data and processing applications to facilitate climate data analysis operations in support of Earth system science that would otherwise be very difficult or impossible.

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<http://portal.nccs.nasa.gov/DV3D/>