

# **McIDAS-V, visualization and data analysis for GOES-R and NPP**

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The fifth generation of the Man computer Interactive Data Access System (McIDAS-V) is the new generation in the University of Wisconsin's Space Science and Engineering Center's 35-year history of sophisticated McIDAS data analysis and visualization software packages. McIDAS-V is a Java-based, open-source, and freely available software visualization package for environmental satellite and other geophysical data. Its advanced capabilities provide very interactive, 4-D displays, an abstract mathematical data model with built-in metadata, and user defined analysis and computation. These powerful capabilities to integrate data, analysis and visualization are being applied to the next generation of geostationary and polar orbiting remote sensing instruments under development for the GOES-R and the recently launched SuomiNPP/JPSS programs. In support of the GOES-R algorithm development teams, several types of satellite data are being used as proxy datasets, including current GOES, MSG SEVIRI, MODIS and MTSAT observations, as well as simulated ABI data sets. For GOES-R Risk Reduction, additional functionality, such as improved scripting capability and tools used for product monitoring and validation, are under development for specific Risk Reduction projects. The McIDAS-V development team is also developing visualization and analysis capabilities for Suomi NPP VIIRS, CriS and ATMS. Results and capabilities from both GOES-R and Suomi NPP will be shown.