

GSKY - A scalable standards compliant geospatial data service

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<p>Synopsis</p>	<p>The National Computational Infrastructure (NCI) has developed a highly distributed geospatial data server called GSKY, which provides a new capability for effective and efficient high performance data analysis. GSKY can be used at scale in national and international initiatives, as it provides fast access to programs and tools over the network and allowing researchers to analyse NCI's multi-petabyte nationally significant research data collections: from satellite data products, to climate and weather simulations to rich geophysical data analysis. GSKY is standards based and supports on demand processing of data that allows interactive data exploration with results presented as an OGC standards compliant interface via Web Map Services (WMS), Web Processing Services (WPS) or raw data arrays using Web Coverage Services (WCS).</p>
<p>Format of demonstration</p>	<p>Live demonstration</p>
<p>Target research community</p>	<p>For any researcher wanting to analyse, transform, and integrate large geospatial datasets into their work.</p>
<p>Statement of Research Impact</p>	<p>Because GSKY enables on demand processing of large volumes of geospatial data it is an extremely efficient and effective way for researchers to access data and greatly reduces the time to science and need for on-premise data storage.</p>