



US National Virtual Observatory

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Acknowledging NVO



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Member of the International
 Virtual Observatory Alliance

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NVO - Facilitating Scientific Discovery

NVO's objective is to enable new science by greatly enhancing access to data and computing resources. In conjunction with the January 2005 meeting of the American Astronomical Society, NVO is releasing a first set of software tools and applications that make it easy to locate, retrieve, and analyze data from archives and catalogs worldwide.

- [The NVO Registry Portal at STScI](#) finds source catalogs, observation logs, image archives, and other astronomical resources registered with the NVO.
- [NVO DataScope](#) helps you discover and explore astronomical data from repositories around the world.
- [OpenSkyQuery](#) lets you cross-match your data with numerous catalogs.
- [NVO Spectrum Services](#) allow you to search, plot, and retrieve Sloan, 2dF, and other spectra.
- [The Web-Enabled Source Identification with Cross-Matching \(WESIX\)](#) package lets you upload images to SExtractor and cross-correlate the objects found with selected survey catalogs.
- [How to publish your data collections to the NVO](#) provides software libraries and sample code of VO Services for people who want to write their own VO-enabled applications.

Additional information is available in an [overview document](#) describing these applications in use and in [brief, one-page application descriptions](#). These tools are based upon international standards developed in collaboration with the International Virtual Observatory Alliance. All are available at <http://us-vo.org/apps/>.

NVO - Data Access

The NVO encourages astronomical research organizations to make their data collections and source catalogs available via the standard VO protocols. These include image access, spectrum access, and catalog search.

A number of [astronomical research facilities and survey projects](#) are already making use of NVO interfaces and protocols in support of data processing, analysis, and distribution.

Available collections and services can be located through the NVO Registries -- the Yellow Pages of astronomical resources, with regularly updated entries. Try the different interfaces at [NCSA](#), [STScI](#), or [Caltech](#) to the NVO registries already containing more than 6000 entries!

NVO - Technical Introduction

In September 2004, the NVO Summer School was a great success, and we are pleased to announce that the [proceedings are now online](#), together with the software that can be used to create and utilize VO-compliant data services. In addition to the software and detailed documentation, there are presentations and course notes at a hands-on level, student exercises and projects.

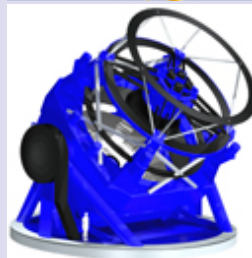
[Click this link for Proceedings of the 2004 NVO Summer School.](#)

NVO - Education and Public Outreach

Astronomical images are treasured by the public for their beauty, and thus are an excellent vehicle for science education at all levels. We seek partnerships with educational organizations, museums, and planetariums to help them use our tools to incorporate NVO-ready data into their programs and curricula. Sample projects:

- [Project LITE](#) is an interactive environment to study astronomical spectra
- [ManyOne](#), a next-generation web-browser providing encyclopedic access to science information.

Team Meeting



NVO Team Meeting

25-26 April 2005
 LSST Observatory, Tucson, AZ

IVOA Workshop

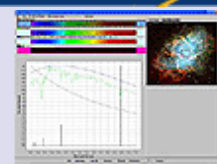
IVOA Interop Workshop,
 Kyoto (16-20 May)
 Detailed information will soon be available at the [JVO](#) web site.

DataScope



Find images and catalog objects around a given sky position with the [DataScope](#).

Project LITE



[Project LITE](#) is an instructional environment for astronomical spectra

(b) uses VO standards or software, or (c) exemplifies grid-based astronomical computing. If you would like a description of your project, data, or software included here, please write to web at [us-vo.org](mailto:web@us-vo.org) with a short description of your work.