

What's New in the CEDAR Database Since June 2004?

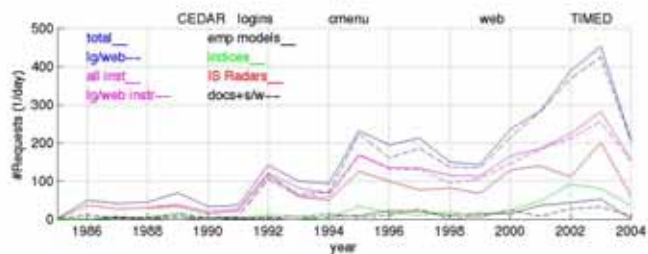
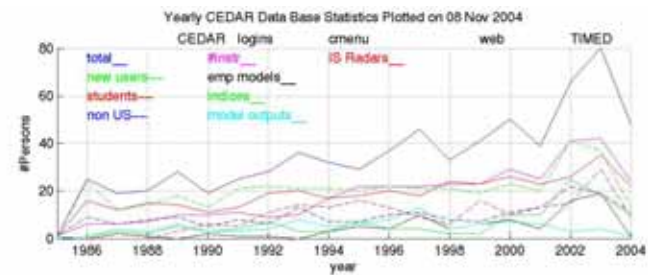
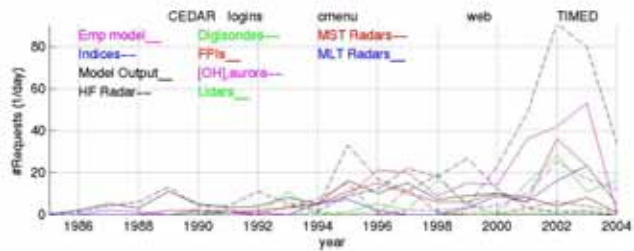
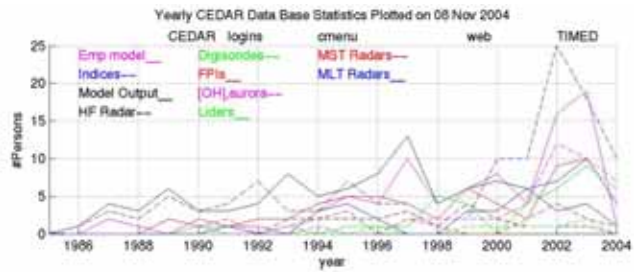
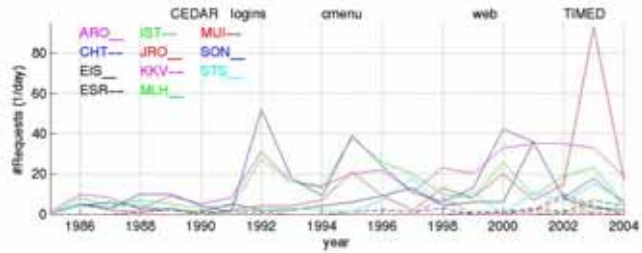
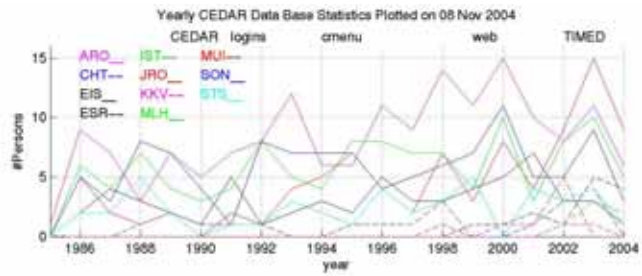
TIMED-CEDAR Data Sets:

- 5 MLT Radar 30-60 min winds (2002-2003 Davis, 2002-2004 Adelaide, 1998-2203 Wakkanai, 1998-2003 Yamagawa, 1998-2004 Poker Flat)
- ISR: Sondrestrom, Jicamarca (Vi)
- CSU lidar Feb-Jun 2004
- Sondrestrom FPI ~240 km Jan-Apr 2004
- Millstone Hill FPI Jan-Dec 2002
- Davis Spectrophotometer (1990, 1994-2003)

OtherData Sets in Process:

- Resolute Bay Michelson
- Jicamarca new coherent mode
- WHAM H-alpha
- MUI data
- IDI

- New CEDAR Server (and statistics)**
<http://cedarweb.hao.ucar.edu>
- VSTO Update**



Status of CEDARWEB



*Successful release of 3.0 interface earlier in the year.
Next release, 3.1, scheduled for later this year.*

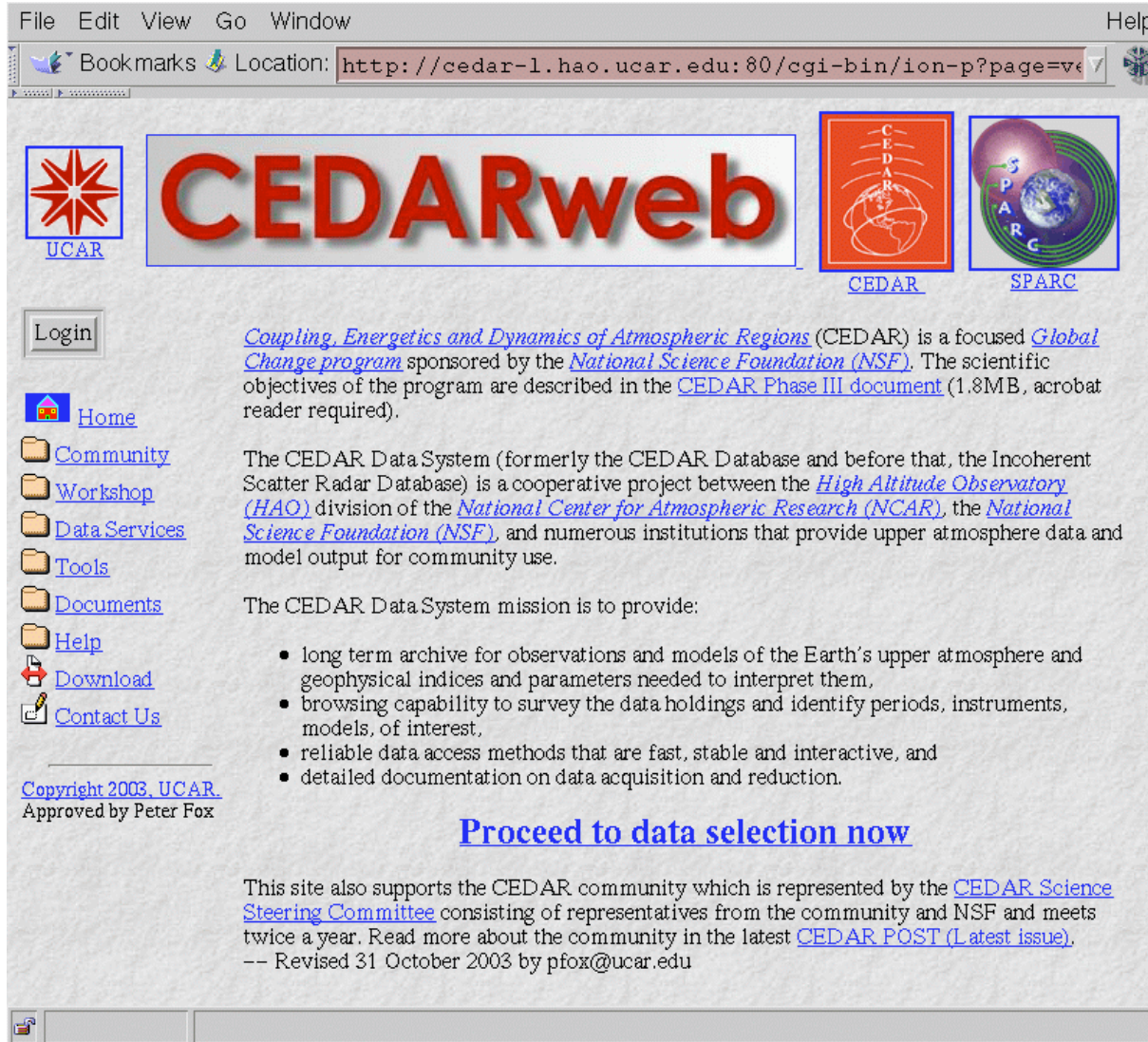
HAO has received funding from NSF/CISE/SCI to develop the Virtual Solar-Terrestrial Observatory (VSTO) which is proposed to be:

- *a distributed, scalable education and research environment for searching, integrating, and analyzing observational, experimental and model databases in the fields of solar, solar-terrestrial and space physics*

VSTO would comprise:

- *a system which provides virtual access to specific data, model, tool and material archives containing items from a variety of space- and ground-based instruments and experiments, as well as individual and community modeling and software efforts bridging research and educational use*



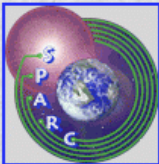




The screenshot shows a web browser window with the URL <http://cedar-1.hao.ucar.edu:80/cgi-bin/ion-p?page=ve>. The page features the UCAR logo, the title "CEDARweb", and logos for CEDAR and SPARC. A navigation menu on the left includes links for Home, Community, Workshop, Data Services, Tools, Documents, Help, Download, and Contact Us. The main content area contains a description of the CEDAR program, a list of mission objectives, and a prominent blue link that says "Proceed to data selection now".


File Edit View Go Window Help


Bookmarks Location: <http://cedar-1.hao.ucar.edu:80/cgi-bin/ion-p?page=ve>


 **CEDARweb**  


UCAR CEDAR SPARC


Login


 [Home](#)


 [Community](#)


 [Workshop](#)


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[Coupling, Energetics and Dynamics of Atmospheric Regions](#) (CEDAR) is a focused [Global Change program](#) sponsored by the [National Science Foundation \(NSF\)](#). The scientific objectives of the program are described in the [CEDAR Phase III document](#) (1.8MB, acrobat reader required).

The CEDAR Data System (formerly the CEDAR Database and before that, the Incoherent Scatter Radar Database) is a cooperative project between the [High Altitude Observatory \(HAO\)](#) division of the [National Center for Atmospheric Research \(NCAR\)](#), the [National Science Foundation \(NSF\)](#), and numerous institutions that provide upper atmosphere data and model output for community use.

The CEDAR Data System mission is to provide:

- long term archive for observations and models of the Earth's upper atmosphere and geophysical indices and parameters needed to interpret them,
- browsing capability to survey the data holdings and identify periods, instruments, models, of interest,
- reliable data access methods that are fast, stable and interactive, and
- detailed documentation on data acquisition and reduction.

[Proceed to data selection now](#)

This site also supports the CEDAR community which is represented by the [CEDAR Science Steering Committee](#) consisting of representatives from the community and NSF and meets twice a year. Read more about the community in the latest [CEDAR POST \(Latest issue\)](#).
-- Revised 31 October 2003 by pfox@ucar.edu

Community data archive, documents, and support.





The screenshot shows a web browser window with the URL `http://cedar-1.hao.ucar.edu/cgi-bin/ion-p?ION__V1=II`. The page features the UCAR logo, the CEDARweb title, and logos for CEDAR and SPARC. A navigation menu on the left includes links for Home, Community, Workshop, Data Services, Tools, Documents, Help, Download, and Contact Us. The main content area is titled "Cedar Data Query and Selection Menu" and displays the following information:

You have chosen the following selections:

- Instrument: 310 - NCAR TGCM/TIGCM Model Output
- Starting Date: March 21, 1979
- Ending Date: March 23, 1979

This URL is the data request:

[TAB](#) [FLAT](#) [INFO](#) [DAS](#) [DDS](#) [DODS](#) [STREAM](#)

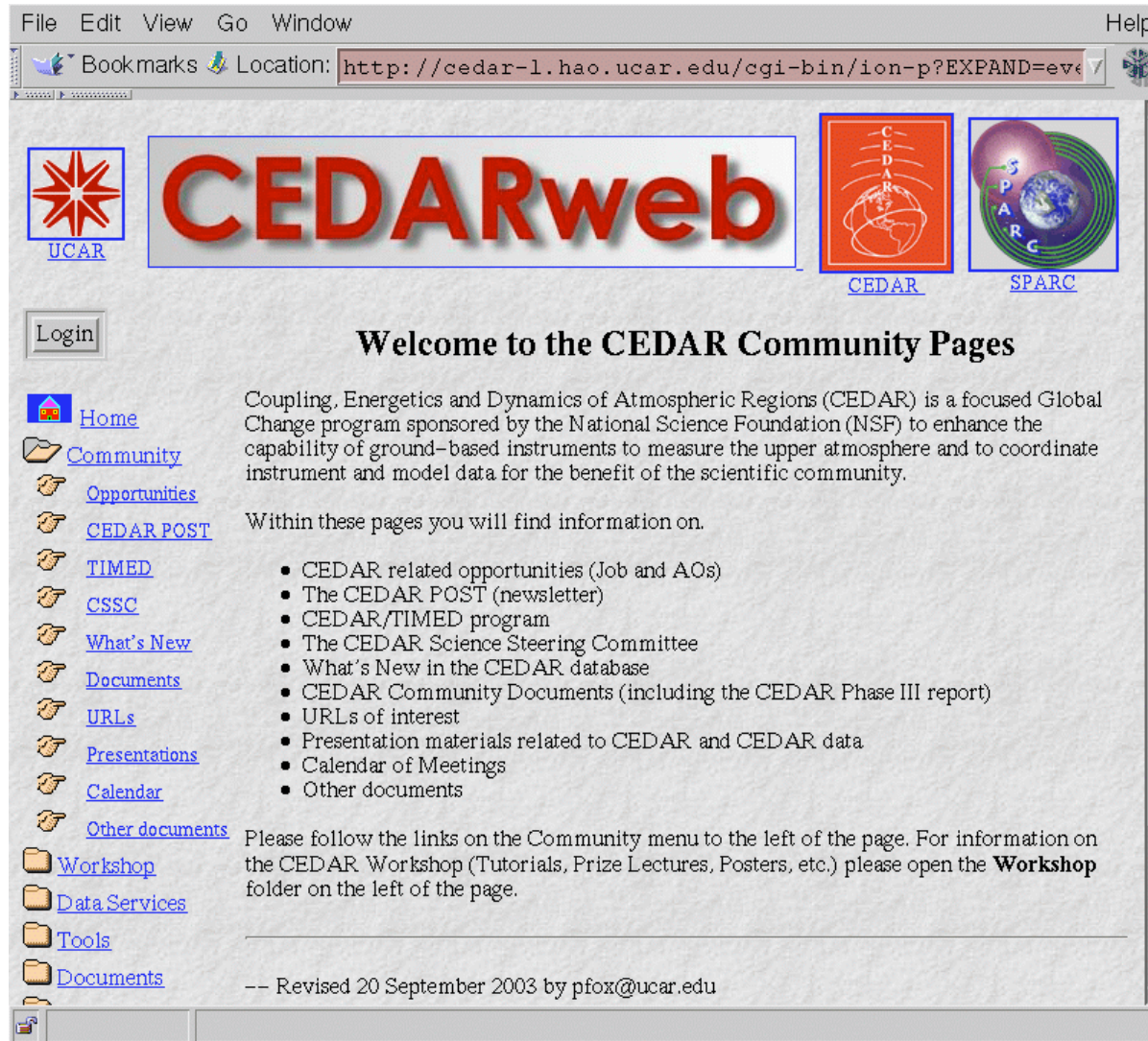
You can further narrow your selection by choosing specific for this data request.

or with instrument.

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Data query, selection and retrieval interface, with integrated tools, e.g. ability to plot (preview) data before retrieving it.

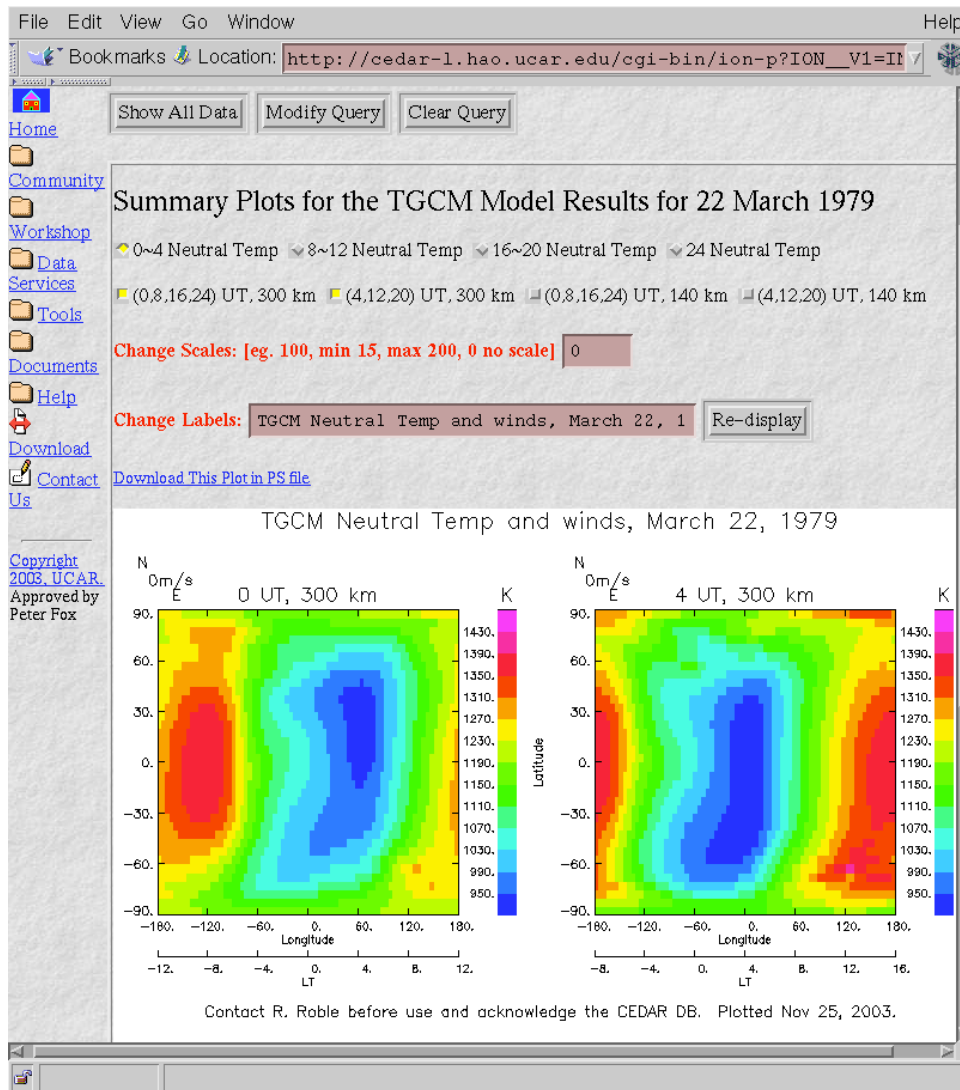




The screenshot shows a web browser window with the URL <http://cedar-1.hao.ucar.edu/cgi-bin/ion-p?EXPAND=ev>. The page features the UCAR logo, the CEDARweb title, and logos for CEDAR and SPARC. A 'Login' button is visible. The main content area is titled 'Welcome to the CEDAR Community Pages' and describes the CEDAR program as a focused Global Change program sponsored by the NSF. It lists various resources available on the site, including opportunities, newsletters, programs, steering committees, databases, documents, URLs, presentations, and a calendar. A 'Workshop' section is also mentioned, with instructions to open the 'Workshop' folder on the left menu. The page is dated as revised on 20 September 2003 by pfox@ucar.edu.

Don't just provide data, but also build in community information and ancillary information that is of value.



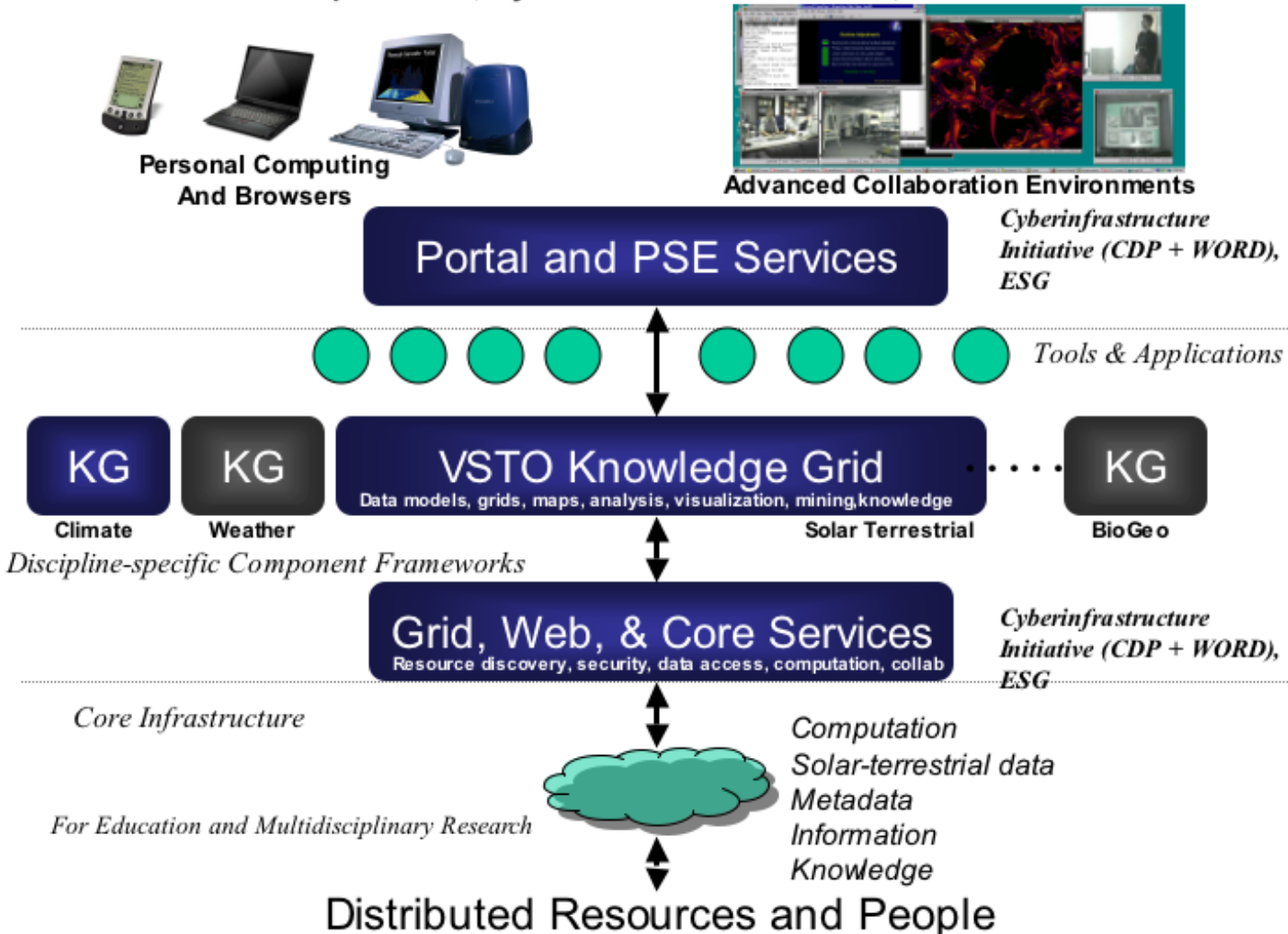


Ability to quickly plot data to assess suitability, quality, and produce a quick copy with some customization for a preliminary study.



VSTO Functionality

Relationship of VSTO, Cyberinfrastructure Initiative, and Other Efforts



What's new about VSTO?



- Datasets alone are not sufficient to build a virtual observatory
- VSTO must address the interface problem to bring data to the users' tools, and to the tools within the VSTO, effectively and scalably
- VSTO will leverage the development of schema (e.g Earth System Grid, VSO/VHO/VSPO/VITMO, EGSO, etc.) that adequately describe the syntax (name of a variable, its type, dimensions, etc. or the procedure name and argument list, etc.) and semantics (what the variable physically is, its units, etc. or what the procedure does and returns, etc.) of the datasets and tools.



What's new about VSTO?



- A Grid-enabled virtual observatory minimizes the time to make data available and usable. Data does not have to be moved or reformatted, only registered with the catalog. It is then available from the VSTO web portal or the user's preferred application which has access to the VSTO interfaces
- VSTO will address the interdisciplinary metadata and ontology problem - bridging terminology and use of data across disciplines
- Aims to integrate tools, models, and data
- A basis for a framework for building and distributing advanced data assimilation tools
- ---> provides for the future evolution of CEDARWEB to continue to fully serve the CEDAR community and preserve and expand the CEDAR database.

