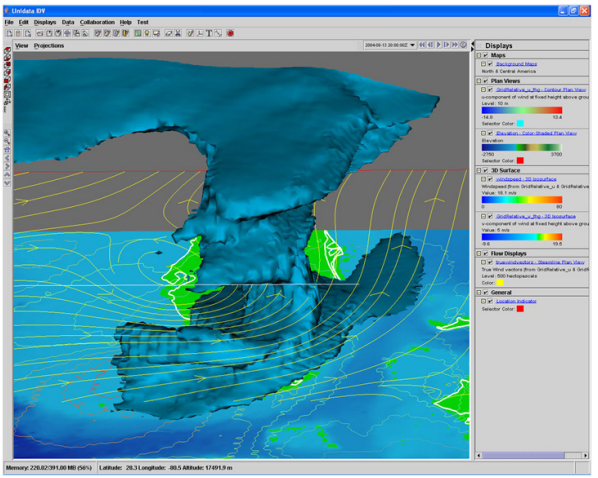
IDV

unidata

What is the IDV?

Unidata's Integrated Data Viewer (IDV) is a freely available 3D geoscience visualization and analysis tool that gives users the ability to view and analyze a rich set of geoscience data in an integrated fashion. The IDV brings together the ability to display and analyze satellite imagery, gridded data (such as numerical weather prediction model output), surface observations (METARs), upper air soundings, NWS NEXRAD Level II and Level III RADAR data, and GIS data, all within a unified interface. The IDV integrates tightly with common scientific data servers (including Unidata's TDS) to provide easy access to many real-time and archive datasets. It also provides collaborative features that enable users to easily share their own data holdings and analysis products with others.



IDV Features

- 2- and 3-D data displays
- Interactive probes for dataset exploration
- Parameter readouts
- Vertical profiles
- Time/height displays
- A rich set of analysis capabilities
- Interactive and script based generation of image, movie, PDF and KML/KMZ products
- Bundling mechanism for saving state
- Client/server data access
- Easy configuration through a plugin facility

Who Uses the IDV?

In addition to Unidata's traditional atmospheric science user base, the IDV attracts users from the oceanographic and solid earth sciences, and is increasingly used as the visualization tool of choice during field projects.

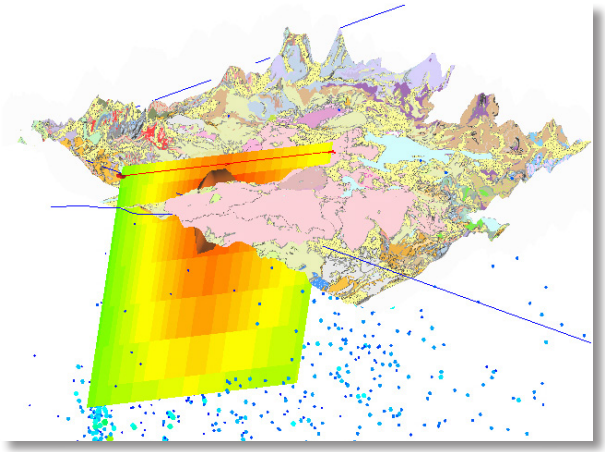
Want More Information?

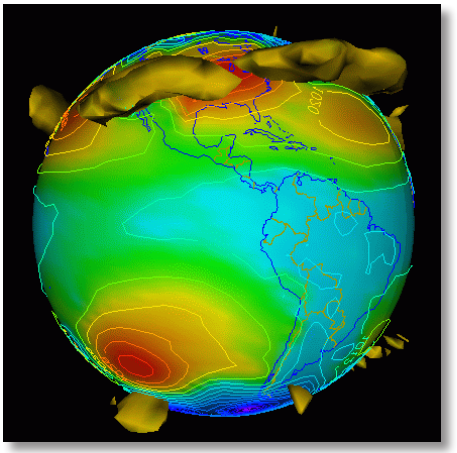
Visit https://www.unidata.ucar.edu/software/idv

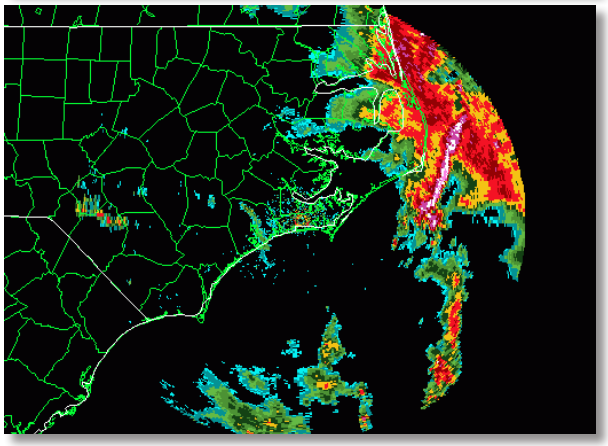
Supported Data Formats

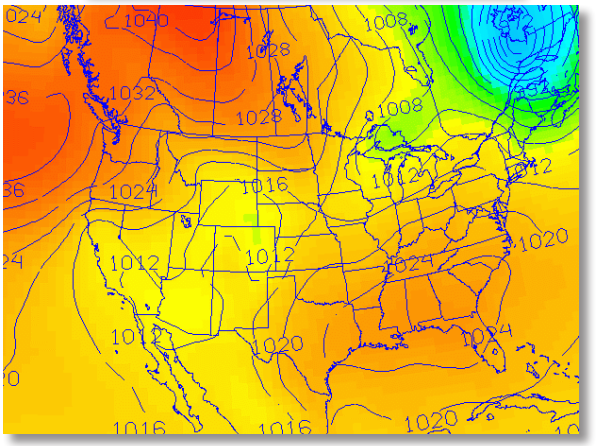
- Access to data on ADDE, OPeNDAP and THREDDS servers
- Georeferenced netCDF data (CF, NUWG, WRF, IOAPI conventions)
- Common atmospheric formats (GRIB, satellite, radar, GEMPAK, Vis5D)
- GIS data (shapefiles, DEM, WMS)
- GoogleEarth KML/KMZ
- Other (Web Cam, HTML, Quick Time)

IDV Display Examples









IDV Tutorials on YouTube

A selection of tutorals and demonstrations of the IDV created by Unidata Program Center staff and community members is available on Unidata's YouTube channel:

https://www.youtube.com/user/unidatanews