2011 Research Tools

Class material:

- Videos: Playlist of extra class videos on YouTube
- Audio podcasts of class
- Mercurial (hg) repository: https://bitbucket.org/schwehr/researchtools

Instructors:

All but 1 of the classes were taught by Kurt Schwehr. I am an Affiliate Research Professor in the Center for Coastal and Ocean Mapping / Joint Hydrographic Center at the University of New Hampshire and a GIS Data Engineer at Google for Oceans.

Rob Braswell taught class 25 on R for statistics. Rob is an Affiliate Faculty in EOS at UNH and works at Applied Geosolutions.

Introduction

The goal of this UNH course is to give students skills that will help them conquer data throughout their career. I am hoping to get this wrapped together as a book that people can take with them when they leave CCOM. I am releasing all course material under a creative commons non-commercial license, so that you can pass copies to your co-workers. 2011 is the first year that the course is being taught in this style. Please email me if you find any typos.

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<td>Rob Braswell: 1-Intro 2-CO2 3-ANOVA</td>
<td></td>
<td></td>
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<td>comment</td>
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CCOM/JHC researchers Kurt Schwehr and RolandArsenault teamed up with multiple agencies to develop a new iPad, iPhone app that helps mariners avoid endangered right whales.

Learn More

A Whale of an App!

Research Areas
- AUVs
- Chart of the Future
- Coastal Processes
- Data Processing
- Data Visualization
- Law of the Sea
- Lidar
- Seafloor Characterization
- Sonar Capabilities
- Water Column Mapping
Kurt Schwehr / GIS Data Engineer for Oceans at Google & Affiliate faculty in CCOM/JHC, Comp Sci, and Earth Sci at UNH

- blog - Web log mostly about my work (geology, computer science, space craft, ships, the ocean, etc)
- my web page at the UNH CCOM Vis Lab
- kurtswehr.vcf - vcard address book entry
- publications

My Delicious Tags

3d acoustics ais ais-risk api auv backup Bathymetry bibtex blog blogging book books c++ ccom classb cms cooking cttf crowdsourcing data database databases deb debugging deepwaterhorizon design development django education dlp emacs emergency energy erma flash food games gardening geolocation geology geophysics gis git google googleearth googlemaps googleoceans government gps hardware healx howto hydrography ipad iphone javascript jpl kml larrymayer latex library linux lng mac macos mapping maps marine marinespatialplanning maritime mars math matlab metadata nasa mobile monitoring msp multibeam nagios nasa navigation networking noaa objective-c oilspill openlayers opensource org-mode osm osx packaging podcasts postgresql press programming publishing python qgis rampreference research researchtools rightwhale robotics rr ruby s-a-s sals abnms science scpiy search security seismology sensors ships shipwrecks software sonar sons sqlite stanford teaching testing tide tips tools tracking tutorial tutorials ubuntu unh uscg vesseltracking video visualization web webmapping whalealert whales windows writing xml

I am goatbar on Delicious
○ Add me to your network
06.14.2012 19:39

HALF DAY KICKSTART ON AIS
I was just talking to a person who works for federal agency who was looking for information on AIS. Here is the list of material that I think gives a kickstart into AIS. This is a very intense half day of material, but leaves out actually processing any AIS data. I have yet to create an AIS in practice video.

First 3 videos. Each is close to an hour.

My AIS Deepwater Horizon video: http://youtu.be/t5xfS7Zz2VJY
My AIS for Environmental Protection video: http://youtu.be/MOBi9t5cU0
Michael Jones of Google talking about AIS and several other technologies in industry: http://youtu.be/Dk3IIOImGwF

After that, here are two pretty big documents:

My AIS for Deepwater Horizon paper: 2011-schwehr-ushydro-dwh.pdf
NOAA CSC BOEM AIS Data Handler presentation (cites me): http://www.marinecadastre.gov/AIS/AIS%20Documents/AISDataHandlerTutorial_DRAFT.pdf

I haven't posted this even though it has been online for just about a month, but here it is. Michael Jones of Google talking about what industry as a whole can and does do. Keep your eyes out as he shows a photo of the SpaceQuest crew with two of their AIS satellites.
Fig. 18. A CHIRP seismic profile images the Gaviota Slide in the Santa Barbara Basin, southern California (Schwehr et al., in press). Note the clearly defined head scarp and thickening in the accumulation zone at the base of the slide. The inset shows the slide in EM300 from MBARI (Eichhubl et al., 2002). The expected direction of compression based on morphology is indicated by arrow (a). The direction of compression from the eigenvectors, shown by arrow (b), closely matches.

exhibit as much deflection, which may be indicative of more moderate flow. Core 2 sampled high flow conditions that appear to be centered on 325° (Table 3), which would be consistent with predicted flow directions. The observation that cores 1 and 7 do not exhibit β zones implies that the β zone observed in core 2 is a local feature with little lateral extent.

5.3. β — beta

thickening of 2:1 or greater on the upslope limbs. This amount of compression is expected to create fabric like that illustrated in Fig. 3c. However, the eigenvectors plotted on stereonets with bootstrap eigenvectors for β most closely resemble Fig. 3a. Core 7 is the least like Fig. 3a, but the bootstrap eigenvectors are tightly clustered near vertical. The scatter in the eigenvectors can be traced to samples in four discrete regions located at ~ 167, 261–282, 420–430, and 572 cm. These layers
La Jolla, CA – SIO – 2004

Created a fledermaus scene file containing multibeam, chirp seismic lines, geologic maps, photos and a figure from Schwehr and Tauxe (2004).

[Lajolla-public.scene.gz](Lajolla-public.scene.gz)
[Lajolla 2004 demo page](Lajolla 2004 demo page)
SECURITY

scp/ssh/vpn/keepassx
UBUNTU LINUX

The BASH shell
Main Page

Welcome

Welcome on this site about reproducible research. This site is intended to gather a lot of information and useful links about reproducible research. As the authors (Patrick Vandewalle, Jelena Kovacevic and Martin Vetterli) are all doing research in signal/image processing, that is also the main focus of this site. Follow the links in the text or in the navigation bar on the left to navigate through this site.

A description of how we make our research reproducible can be found on the How To page. The links page contains a large set of links about RR, tools, etc. And on the RR Material page, you can find a set of links to code and data for papers in signal processing.

Motivation

After a colleague asked something about a paper you wrote, you spend a considerable amount of time finding back the right program files you used in that paper. Not to talk about the time to get back to the set of parameters used to produce that nice result.

Because this type of situations sounded all too familiar to many people of the lab, we are now trying to make our research reproducible. Most of the ideas about reproducible research come from Jon Claerbout and his research group at Stanford University. We believe reproducible can be helpful in many ways:

- It will help us in the first place, to reproduce figures in the revisions of a paper, to create earlier results again in a later stage of our research, etc.
- Other people who want to do research in the field can really start from the current state of the art, instead of spending months trying to figure out what was exactly done in a certain paper. It is much easier to take up someone else's work if documented code is also available.
- It highly simplifies the task of comparing a new method to existing methods. Results can be compared more easily, and one is also sure that the implementation is the correct one.

This may all sound very trivial, and in discussions with colleagues, there was a general agreement that this is how research should be performed. However, in practice, only few examples are available today. Making articles reproducible indeed requires a certain investment in time. However, we think that it is worth the investment. The interest is hard to quantify, but from download statistics and Google rankings, we can see that it really pays off!
Python Programming Language – Official Website

Python is a programming language that lets you work more quickly and integrate your systems more effectively. You can learn to use Python and see almost immediate gains in productivity and lower maintenance costs.

Python runs on Windows, Linux/Unix, Mac OS X, and has been ported to the Java and .NET virtual machines.

Python is free to use, even for commercial products, because of its OSI-approved open source license.

New to Python or choosing between Python 2 and Python 3? Read Python 2 or Python 3.

The Python Software Foundation holds the intellectual property rights behind Python, underwrites the PyCon conference, and funds other projects in the Python community.

Read more, or download Python now

» Fourth alpha for Python 3.3.0 released
  The fourth alpha release for Python 3.3.0 has been released for testing.
  Published: Thu, 31 May 2012, 22:00 +0200

» Request for Proposal: Redesign python.org
  The PSF has published an RFP for redesigning python.org. We look forward to seeing what the community can produce.
  Published: Thu, 31 May 2012, 10:00 +0200
Delighted End-Users. IT Heroes.
VMware View and Horizon Application Manager — leading the way to the Post-PC Era

Learn More

Watch our launch webcast and learn about the latest advancements in the VMware End-User Computing Platform

VMware Forum 2012
Attend a free virtualization event with VMware product experts and Hands-On Labs.
Register Now

ESXi and ESX Info Center
Plan your migration to VMware ESXi. Improve security and simplify hypervisor management.
Learn More

Re-Imagine Your Desktop
Modernize your desktops to deliver end-user freedom and maintain IT control.
Learn More

Technical Resources
The VMware Advantage

How To Get It
Download Free Trial

Get Support
Downloads & Patches

Community
VMTN Communities
Welcome.

SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. SQLite is the most widely deployed SQL database engine in the world. The source code for SQLite is in the public domain.

Sponsors

Ongoing development and maintenance of SQLite is sponsored in part by SQLite Consortium members, including:

Mozilla - Working to preserve choice and innovation on the internet.

Oracle - Software. Hardware. Complete.

Bloomberg - A world leader in financial information technology.

Current Status

- Version 3.7.13 of SQLite is recommended for all new development. Upgrading from version 3.7.6.3, 3.7.7, 3.7.7.1, 3.7.8, 3.7.9, 3.7.11, 3.7.12, or 3.7.12.1 is optional. Upgrading from all other SQLite versions is recommended.

Common Links

- Features
- Frequently Asked Questions
- Well-known Users
- Getting Started
- SQL Syntax
  - Pragmas
  - SQL functions
  - Date & time functions
  - Aggregate functions
- C/C++ Interface Spec
  - Introduction
  - List of C-language APIs
- The TCL Interface Spec
- Development Timeline
- Report a Bug
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<td>November 24, 2011</td>
<td>Manage any SQLite database on your computer.</td>
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<td>Prosthetic highlighter</td>
<td>initial.rev362</td>
<td>June 11, 2012</td>
<td>A multi-color highlighter for marking text on web pages. Uses SQLite (no cloud nonsense! privacy-frien...</td>
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<td>QuickFox Notes</td>
<td>2.7.3</td>
<td>April 29, 2012</td>
<td>Everyday note-taking solution.</td>
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<td>Certificate Watch</td>
<td>1.1</td>
<td>March 29, 2011</td>
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Extensible Markup Language (XML)

1. Introduction
2. Working Groups
3. Events
4. Other Resources
5. Contact

Nearby: XML Specifications and Translations of them.

Introduction

Extensible Markup Language (XML) is a simple, very flexible text format derived from SGML (ISO 8879). Originally designed to meet the challenges of large-scale electronic publishing, XML is also playing an increasingly important role in the exchange of a wide variety of data on the Web and elsewhere.

This page describes the work being done at W3C within the XML Activity, and how it is structured. Work at W3C takes place in Working Groups. The Working Groups within the XML Activity are listed below, together with links to their individual web pages.

You can find and download formal technical specifications here, because we publish them. This is not a place to find tutorials, products, courses, books or other XML-related information. There are some links below that may help you find such resources.

You will find links to W3C Recommendations, Proposed Recommendations, Working Drafts, conformance test suites and other documents on the pages for each Working Group. Each document also contains email addresses you can use to send comments or questions, for example if you have been writing software to implement them and have found problems or errors.

Please do not send us email asking us to help you learn a language or specification; there are plenty of resources online, and the people editing and developing the specifications are very busy. We are interested in technical comments and errata.

If your organization would like to join the W3C, or if you would like to participate formally in a working group (and have the necessary resources to attend meetings), you can read more about the Consortium.
ISO 19115:2003

Geographic information — Metadata

Media and price

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General information

Number of Pages: 140

Edition: 1 (Monolingual)  ICS: 35.240.70
Status: Published  Stage: 90.92 (2009-02-18)
TC/SC: TC 211

Abstract

ISO 19115:2003 defines the schema required for describing geographic information and services. It provides information about the identification, the extent, the quality, the spatial and temporal schema, spatial reference, and distribution of digital geographic data.

ISO 19115:2003 is applicable to:
- the cataloguing of datasets, clearinghouse activities, and the full description of datasets;
- geographic datasets, dataset series, and individual geographic features and feature properties.
Format Specification Document

Description of Bathymetric Attributed Grid Object (BAG)
Version 1.0.0

Document Version
RELEASE 1.0

by
Open Navigation Surface Working Group
GNU Emacs is an extensible, customizable text editor—and more. At its core is an interpreter for Emacs Lisp, a dialect of the [Lisp programming language](https://en.wikipedia.org/wiki/Lisp) with extensions to support text editing. The features of GNU Emacs include:

- Content-sensitive editing modes, including syntax coloring, for a variety of file types including plain text, source code, and HTML.
- Complete built-in documentation, including a tutorial for new users.
- Full [Unicode](https://en.wikipedia.org/wiki/Unicode) support for nearly all human languages and their scripts.
- Highly customizable, using Emacs Lisp code or a graphical interface.
- A large number of extensions that add other functionality, including a [project planner](https://en.wikipedia.org/wiki/Project_planning), [mail and news reader](https://en.wikipedia.org/wiki/Network_news), [debugger interface](https://en.wikipedia.org/wiki/Debugging), [calendar](https://en.wikipedia.org/wiki/Calendar), and more. Many of these extensions are distributed with GNU Emacs; others are [available separately](https://en.wikipedia.org/wiki/Emacs).

### Releases

The current stable release is 24.1. To obtain it, visit the [obtaining](https://en.wikipedia.org/wiki/Obtaining) section.

Emacs 24 has a wide variety of new features, including:

- A packaging system and interface (\texttt{M-x list-packages}) for downloading and installing extensions. A default package archive is hosted by GNU and maintained by the Emacs developers.
- Support for displaying and editing bidirectional text, including right-to-left scripts such as Arabic and Hebrew.
- Support for lexical scoping in Emacs Lisp.
The #1 most highly recommended editing solution in the world

UltraEdit/UltraCompare  Sold together or separately

Considered a software masterpiece, the UltraEdit and UltraCompare bundle is the ideal text editing and compare/merge solution!

Together, UE/UC are unparalleled in unified text editing power and performance. Edit your files, easily manage your changes, merge code, synchronize local/remote folders and more... The world's #1 text editing solution!

Retail: $109.95
You pay: $89.95
You save: $20.00

Using Windows, Mac, or Linux? Click to see platform options
Org: an Emacs Mode for Notes, Planning, and Authoring

* Org starts as a simple outline

** ... written on top of outline-mode...
** TODO which allows to set timestamps
SCHEDULED: <2011-12-14 mer.>

** TODO and deadlines
DEADLINE: <2011-12-21 mer.>

* Continues as a TODO lists manager...
* But is also a nice authoring tool...

(Click to enlarge the picture – press Escape to lower it.)

Org mode is for keeping notes, maintaining TODO lists, doing project planning, and authoring with a fast and effective plain-text system.

Keep simple things simple... and do more

Simplicity
LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation. LaTeX is the de facto standard for the communication and publication of scientific documents. LaTeX is available as free software.

LaTeX the product

What is LaTeX?
If you do not yet know what LaTeX is all about, have a look at our short introduction to LaTeX.

The latest version of LaTeX
We provide a newsletter (as a PDF file) about each release of LaTeX created since 1994.

Documentation
Each release of LaTeX provides a number of guides for users.

Getting LaTeX
If you need to know how and where to get LaTeX, please have a look at our instructions.

Getting help
If you are in trouble and need to get some help, please read our hints on where you might find help.

The LaTeX3 project

The LaTeX3 project
Do you want to know more about the LaTeX3 project? If so, then please have a look at a (short) description of the LaTeX3 Project.

Ongoing work of the LaTeX3 project
Over the years a number of articles, conference papers, etc., have been produced and published by the LaTeX3 project. A selection of these are available in Portable Document Format (PDF files).

Experimental, new products
We would also like to make development code available to you via this site. We are continuing to add new material at this location so as to stimulate further discussion of the underlying concepts.
Your BibTeX resource

Here you will find everything you need to know about BibTeX

The word „BibTeX“ stands for a tool and a file format which are used to describe and process lists of references, mostly in conjunction with LaTeX documents.

Here you can learn about the BibTeX File Format, How to use BibTeX and BibTeX Tools which can help you to ease your BibTeX usage.

NEW: Be sure to try the Bib2x Online Converter which allows you to convert your BibTeX bibliographies into a few target formats. It is meant to serve as a demonstration of Bib2x, a tool that allows arbitrary conversion of BibTeX bibliographies using templates.
Zotero [zoh-TAIR-oh] is a free, easy-to-use tool to help you collect, organize, cite, and share your research sources. It lives right where you do your work—in the web browser itself.

Grab your research with a single click.

A personal research assistant.

Zotero is the only research tool that automatically senses content, allowing you to add it to your personal library with a single click. Whether you're searching for a preprint on arXiv.org, a journal article from JSTOR, a news story from the New York Times, or a book from your university library catalog, Zotero has you covered with support for thousands of sites.

Store anything.

Zotero collects all your research in a single, searchable interface. You can add PDFs, images, audio and video files, snapshots of web pages, and really anything else. Zotero automatically indexes the full-text content of your library, enabling you to find exactly what you're looking for with just a few keystrokes.
Work easier
Work faster

Mercurial is a free, distributed source control management tool. It efficiently handles projects of any size and offers an easy and intuitive interface.

How you can benefit from Mercurial

It is fast and powerful
Mercurial efficiently handles projects of any size and kind. Every clone contains the whole project history, so most actions are local, fast and convenient. Mercurial supports a multitude of workflows and you can easily enhance its functionality with extensions.

It is easy to learn
You can follow our simple guide to learn how to revision your documents with Mercurial, or just use the quick start to get going instantly. A short overview of Mercurial's decentralized model is also available.

And it just works
Mercurial strives to deliver on each of its promises. Most

Quick Start

Clone a project and push changes
$ hg clone http://selenic.com/repo/t
$ cd hello
$ (edit files)
$ hg add (new files)
$ hg commit -m 'My changes'
$ hg push

Create a project and commit
$ hg init (project-directory)
$ cd (project-directory)
$ (add some files)
$ hg add
$ hg commit -m 'My changes'
$ hg push
Unlimited DVCS Code Hosting, Free

Store all of your Git and Mercurial source code in one place with unlimited private repositories. Includes issue tracking, wiki, and pull requests.

Secure hosting with flexible permissions for your repositories. Integrates with JIRA, Jenkins, Pivotal, Cloud9 IDE and other developer tools.

SIGN UP NOW, FREE
UNLIMITED PRIVATE REPOS

Bitbucket Features

Unlimited repositories
Host your code online with unlimited repositories. Share work with colleagues, collaborators, or potential employers.

Secure code collaboration
Delegation administration and grant users read/write access to your repository. Share power with your developers.
**What is GMT?**

**GMT** is an open source collection of ~65 tools for manipulating geographic and Cartesian data sets (including filtering, trend fitting, gridding, projecting, etc.) and producing Encapsulated PostScript File (EPS) illustrations ranging from simple x-y plots via contour maps to artificially illuminated surfaces and 3-D perspective views; the GMT supplements add another ~70 more specialized tools. GMT supports over 30 map projections and transformations and comes with support data such as GSHHS coastlines, rivers, and political boundaries. GMT is developed and maintained by Paul Wessel and Walter H. F. Smith with help from a global set of volunteers, and is supported by the National Science Foundation. It is released under the GNU General Public License.

Current version is 4.5.8, Released April 1, 2012. Consider visiting the [GMT 5 site](http://gmt.soest.hawaii.edu).

GMT is used all over the world. Each yellow dot represent a 15x15 arc minute block with one or more registered users or institutions. So far, over 2100 such blocks have been registered, representing more than 25,000 individual GMT users. To add your dot, fill out the [registration form](http://gmt.soest.hawaii.edu).
Mapping the Seafloor:
Software for the Processing and Display
of Swath Sonar Data

David W. Caress (1) and Dale N. Chayes (2)

1. Monterey Bay Aquarium Research Institute
2. Lamont-Doherty Earth Observatory
   of Columbia University

Introduction

MB-System is an open source software package for the processing and display of bathymetry and backscatter imagery data derived from multibeam, interferometry, and sidescan sonars. The source code for MB-System is freely available (for free) by anonymous ftp (including "point and click" access through these web pages). A complete description is provided in web pages accessed through links below.

MB-System was originally developed at the Lamont-Doherty Earth Observatory of Columbia University (L-DEO) and is now a collaborative effort between the Monterey Bay Aquarium Research Institute (MBARI) and L-DEO. The National Science Foundation has provided the primary support for MB-System development since 1993. The Packard Foundation has provided significant support through MBARI since 1998. Additional support has derived from SeaBeam Instruments (1994-1997), NOAA (2002-2004), and others.
Welcome to the Quantum GIS Project

Quantum GIS (QGIS) is a user friendly Open Source Geographic Information System (GIS) licensed under the GNU General Public License. QGIS is an official project of the Open Source Geospatial Foundation (OSGeo). It runs on Linux, Unix, Mac OSX, Windows and Android and supports numerous vector, raster, and database formats and functionalities.

Our latest release is QGIS 1.7.4 you can read the release announcement here

Learn more about QGIS

Quantum GIS provides a continuously growing number of capabilities provided by core functions and plugins. You can visualize, manage, edit, analyse data, and compose printable maps. Get a first impression with some screenshots and a more detailed feature list.

Want to learn even more?

Check the latest User Guide or learn how you can customize QGIS to fit your needs with our API Documentation and PyQGIS Cookbook.

How to contribute

Quantum GIS is a volunteer driven project. We welcome contributions in the form of code contributions, bug fixes, bug reports, contributed documentation, advocacy and supporting other users on our mailing lists and gis.stackexchange.com. If you are interested in actively supporting the project, you can find more information under the development menu and on the QGIS Wiki. We also welcome financial contributions in the form of sponsoring and funding.
GDAL – Geospatial Data Abstraction Library

Select language: [English][Russian][Portuguese][French/Francais]

GDAL is a translator library for raster geospatial data formats that is released under an X/MIT style Open Source license by the Open Source Geospatial Foundation. As a library, it presents a single abstract data model to the calling application for all supported formats. It also comes with a variety of useful commandline utilities for data translation and processing. The NEWS page describes the May 2012 GDAL/OGR 1.9.1 release.

The related OGR library (which lives within the GDAL source tree) provides a similar capability for simple features vector data.

Master: http://www.gdal.org
Download: ftp at remotesensing.org, http at download.osgeo.org

User Oriented Documentation
- Wiki – Various user and developer contributed documentation and hints
- Downloads – Ready to use binaries (executables)
- Supported Formats: GeoTIFF, Erdas Imagine, SDTS, ECW, MrSID, JPEG2000, DTED, NITF, ...
- GDAL Utility Programs: gdalinfo, gdal_translate, gdaladdo, gdalwarp, ...
- GDAL FAQ
- GDAL Data Model
- GDAL/OGR Governance and Community Participation
- GDAL Service Provider Listings (not vetted)
- Sponsors, Acknowledgements and Credits
- Software Using GDAL

Developer Oriented Documentation
- Building GDAL From Source
- Downloads – source code
- API Reference Documentation
- GDAL API Tutorial
- GDAL Driver Implementation Tutorial
- GDAL Warp API Tutorial
- OGRSpatialReference Tutorial
- GDAL C API
- GDAL Algorithms C API
- GDALDataset C++ API
- GDALRasterBand C++ API
- GDAL for Windows CE

Mailing List
A gdal-announce mailing list subscription is a low volume way of keeping track of major developments with the GDAL/OGR project.
PROJ.4 - Cartographic Projections Library

This web page relates to the PROJ.4 Cartographic Projections library originally written by Gerald Evenden then of the USGS.

Download

The current development source is available by anonymous SVN from http://svn.osgeo.org/metacrs/proj/trunk/proj.

The following files are available from the proj ftp directory or http mirror.

- Source Code:
  - http://download.osgeo.org/proj/proj-4.8.0.tar.gz or http://download.osgeo.org/proj/proj-4.8.0.zip:
    - Current source release.
- Datum shift grids:
  - proj-datumgrid-1.5.zip: US, Canadian, French and New Zealand datum shift grids - unzip in the nad directory before configuring to add NAD27/NAD83 and NZGD49 datum conversion.
  - SwissGrid
  - NonFreeGrids
  - HarnGrids
  - HTDPGrids - NAD83/WGS84 conversion grids based on NOAA/NGS HTDP Model.
  - Geocentric Datum of Australia AGD66/AGD84
  - Canadian grid for NAD27.
  - German BeTA2007 DHDN GK3 => ETRS89/UTM
  - UK's OSTN02_NTv2: OSGB 1936 => ETRS89
  - Austrian Grid for MGI.
  - Spanish grids for ED50.
  - Portuguese grids for ED50, Lisbon 1890, Lisbon 1937 and Datum 73.
  - South African grid (Cape to Hartebeesthoek94 or WGS84).

- Binaries:
  - PostgreSQL RPM Repository: Update Proj (and other GIS) RPMs
  - proj446_win32_bin.zip: Prebuilt Win32 executables, DLL including NAD27 grid shift files.
  - The openSUSE Application:Geo Repository offers current PROJ.4 RPMs for SuSe.
Fusion Tables
Gather, visualize and share your data online

Visualize and publish your data as maps, timelines and charts.

Host your data tables online.

Combine data from multiple people.

Search public data tables

More examples »
World Wind Java SDK

Welcome:
Here you will find the World Wind SDK for Java. With this, developers can embed World Wind technology in their own applications.

Many resources are available at goworldwind.org to help you understand and use World Wind.

Current releases:
- World Wind Java SDK 1.3
- World Wind Java SDK Daily Builds

Developer links:
- Developer resources and more at goworldwind.org
- World Wind Java public SVN server
- World Wind Java Bug and Issue tracker
- Archived releases

Download World Wind Java SDK
View Online HTML API Documentation
NASA World Wind Java Demo Applications & Applets
INTERNET RELAY CHAT
IRC

Sunday, June 24, 12
Welcome to the CCOM Wiki

Making a Start with the Wiki

If you haven't used a Wiki before, and need some guidelines on what to add, or how to add it, there's advice available in the Wiki Guide.

IT Service Announcements

The network at CCOM is, like all networks, a work in progress. When things change, they will be announced here (hopefully some time in advance, but possibly in arrears). Please check here for new information before contacting the IT Group if something appears broken.

Current Announcements

There are no announcements at this time.

Ongoing Concerns

There are no ongoing concerns at this time. To report a technical problem, please contact the CCOM IT Helpdesk.

IT Systems

The IT Group have the responsibility for running all of the computing and network infrastructure in CCOM. We operate a full backup system, and support Windows, MacOS and Linux systems for both desktop and server use. If it's broken and needs fixing, or if you need a new service, a modification to the firewall or other information, they can help.

In-Brief Information

There are a bunch of things you need to know about working at CCOM, and more to know if you're part of one or more sub-groups of the population, such as:

- Faculty
- Staff
- Graduate Students
- NOAA Graduate Students
- GEBCO Students

There's also an IT In-Brief that you should read, and an Acceptable Use Policy to which you need to adhere. Also see CCOM's Safety Information section.

Administration Announcements

Current Announcements

- Summer 2012 Class Schedule
- Current Mileage Rate
- CCOM Seminar Series Calendar
- The Anchor

Administration

- UNH - A Section 501(c)(3) Nonprofit Educational Organization
- Forms
New! June 13, 2012: GeoMapApp version 3.2.0

Click here to launch version 3.2.0 of GeoMapApp using Java WebStart or select from the Download Links menu to the left to install the application.

GeoMapApp is an earth science exploration and visualization application that is continually being expanded as part of the Marine Geoscience Data System (MGDS) at the Lamont-Doherty Earth Observatory of Columbia University. The application provides direct access to the Global Multi-Resolution Topography (GMRT) compilation that hosts high resolution (~100 m node spacing) bathymetry from multibeam data for ocean areas and ASTER (Advanced Spaceborne Thermal Emission and Reflection Radiometer) and NED (National Elevation Dataset) topography datasets for the global land masses.

Requirements

The application runs in the Windows XP, Windows Vista, Windows 7, Mac OS X (10.4, 10.5), Linux and Solaris operating systems using the Java Runtime Environment (requires version 1.5.0_08 or more recent).

Important News

If you’re running GeoMapApp with Debian GNU/Linux 5.0 OS please view an important update here.

(02.20.2010)
COLLECTING DATA

NMEA/TCP/UDP