Tech Notes

OpenEarth proposes a 3-step workflow for working with (1) raw data, (2) standard and tailored data and (3) graphics of data, see the graphic on our data philosophy page. There are many initiatives for catalogs of data to index these web-services, e.g. INSPIRE. On this page you'll find tutorials for all data, models and tools standards. We have grouped them into a list (top) and into a table (down).

Manually sorted list of Tech Notes (OpenEarth and external links)

- ADAGUC
  - ADAGUC: Setup of ADAGUC on CentOS SELinux.
- Subversion/SVN version controlled repositories
  - Getting started with the TortoiseSVN client for Windows: making a 1st checkout
  - Tutorial for Windows users: making checkouts, updates and commits
  - SVN keywords
  - SVN and large repositories: sparse checkout
  - Waht to do when a repository migrates
- netCDF-CF-OPeNDAP example meta-data access
  - Accessing netCDF/OPeNDAP overviews with Google Earth
  - Accessing netCDF/OPeNDAP overviews with a web browser
- netCDF-CF-OPeNDAP example data access (simple)
  - Accessing netCDF/OPeNDAP data with browser (simple)
  - Accessing netCDF/OPeNDAP data with browser 2
  - Accessing netCDF/OPeNDAP data with ncBrowse (simple)
  - Accessing netCDF/OPeNDAP data with Matlab (simple)
  - Accessing netCDF/OPeNDAP data with Python (simple)
  - Accessing netCDF/OPeNDAP data with R (simple)
  - Accessing netCDF/OPeNDAP data with Delft3D-Quickplot (simple)
- netCDF-CF-OPeNDAP example data access (more)
  - Accessing netCDF/OPeNDAP in combination with an RDBMS (simple)
  - Accessing netCDF/OPeNDAP grids types (simple)
- MATLAB
  - Accessing netCDF/OPeNDAP data with matlab (simple)
  - Subsetting netCDF/OPeNDAP data with matlab (simple)
  - Matlab plotting into Google Earth
  - more...
- Python
  - Accessing netCDF/OPeNDAP data with python
  - Subsetting netCDF/OPeNDAP data with python (simple)
  - more...
- R
  - Accessing netCDF/OPeNDAP data with R (simple)
  - Subsetting netCDF/OPeNDAP data with R
  - more...
- Excel
  - Accessing netCDF/OPeNDAP data with Excel
- perl
  - more...
- PostgreSQL/PostGIS relational Databases and GIS
  - Step by step start with PostgreSQL and PostGIS
  - PostgreSQL
  - Accessing PostgreSQL/PostGIS data with Matlab (simple)
  - Accessing PostgreSQL/PostGIS data with Python (simple)
  - Accessing PostgreSQL/PostGIS data with R (simple)
  - QGIS Tutorials
  - ArcMap connection
  - PostGIS tips and trics
- Graph Databases and data structures (link to wikipedia)
  - Neo4j
  - iGraph (R and Python)
  - Visualization of graph databases
- NCO
  - netCDF Operator (NCO)
- OGC WxS standards for exchange of data via Web Services (Open Geospatial Consortium):
  - Install Geoserver
  - WCS: Web Coverage Services: exchange of (interpolated) gridded data (netcdf, hdf, geotiff, ...)
  - WCS primer for end-users (simple)
  - The full description of the standard (experts).
  - WMS: Web Mapping Services: exchange of georeferenced plots of gridded data (jpg, png,....).

    - WMS primer for end-users (simple)
    - The full description of the standard (experts)
    - WFS: Web Feature Services: exchanges of features (json,xml,gml).
    - WFS primer for end-users
    - The full description of the standard (experts)
    - WPS primer for end-users
    - The full description of the standard (experts)
    - CSW primer for end-users
    - The full description of the standard (experts)
- Fabric
- Rich Signell's (USGS, CF) work Log
- Product Suite
    - Getting software released
- netCDF conventions
- Server-Infrastructure
    - OpenEarth infrastructure - Step by step installation guide
    - OpenEarth infrastructure - Installation on RHEL-6-x86_64
- GDAL

Manually sorted table of Tech Notes

Client	SubVersion	OGC netCDF-CF-OPeNDAP-server	PostgreSQL-PostGIS server	OGC services
Data level	(1) raw data	(2) standard data	(2)standard data	(3) graphics of data
User	scientist	professional	professional	public on smart phones/tablets
Geospatial standardisation		OGC CF conventions	ISO 19125-OGC PostGIS	OGC WMS, WCS, WFS
OpenEarth server		opendap.deltares.nl	see credentials on EU-VECTORS page	THREDDS WMS and geoserver
tutorials for communication protocol standard	svn	netcdf-java, netCDF-C	PostgreSQL	WMS primer, WCS primer, WFS primer
tutorials for Matlab	x	simple read, subset read	read	wmsread WMS library,oet tool `wms.m`, Google Earth plotting
tutorials for Python	x	simple read, subset read	read	OWSLib WxS library, Google Earth plotting
tutorials for R	x	simple read, subset read	read	scm WxS library, Google Earth plotting
tutorials for ncbrowse	x	simple read	x	x
tutorials for PGadmin	x	x	write	x
tutorials for QGIS	x	to do	to do	standard
tutorials for arcGIS	x	to do	to do	standard

Automatic tree of OpenEarth Tech Notes