

GeoSpatial Open Source Software



Compiled by:
Cameron Shorter
<http://lisssoft.com>
March 2012



Derived from OSGeo-Live Project Overviews, by OSGeo-Live authors

<http://live.osgeo.org>



OSGeo-Live



Applications

Geospatial

Wed, 07 Sep 18:24  user



Home



File System



Trash



Help



Spatial Tools



Navigation a...



Desktop GIS



Web Services

- Browser Clients
- Crisis Management
- Databases
- Desktop GIS
- Navigation and Maps
- Spatial Tools
- Web Services
- OSGeo Software Help

- atlasstyler
- geopublisher
- GRASS GIS
- gvSIG
- Kosmo
- Open Jump
- OssimPlanet
- Quantum GIS
- SAGA GIS
- SpatiaLite GIS
- uDig





Thumb Drive & Virtual Machine



VirtualBox OSE

File Machine Help

New Settings **Start** Discard

osgeo-live
Powered Off



Details Snapshots Description

General
Name: osgeo-live
OS Type: Ubuntu

System
Base Memory: 512 MB
Processor(s): 1
Boot Order: Floppy, CD/DVD-ROM, Hard Disk
VT-x/AMD-V: Enabled
Nested Paging: Enabled

Display
Video Memory: 12 MB
3D Acceleration: Disabled
2D Video Acceleration: Disabled

Storage
IDE Controller
IDE Secondary Master (CD/DVD): osgeolive-4.0.iso (4.74 GB)
Floppy Controller
Floppy Device 0: Empty

Audio
Host Driver: PulseAudio
Controller: ICH7AC07

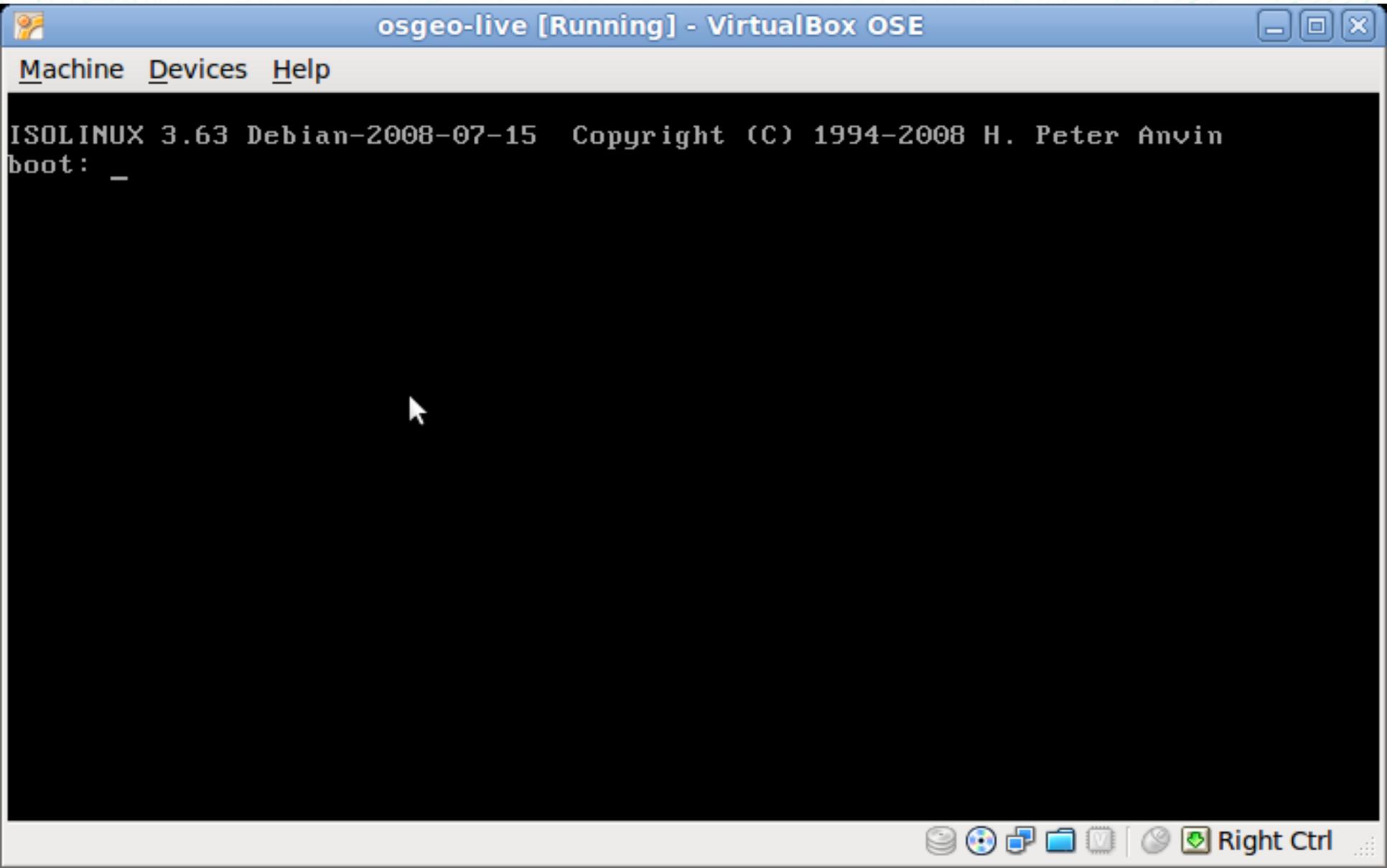
Start the selected virtual machine



OSGeo-Live



LISAsoft



osgeo-live [Running] - VirtualBox OSE



Machine Devices Help

```
ISOLINUX 3.63 Debian-2008-07-15 Copyright (C) 1994-2008 H. Peter Anvin  
boot: _
```





OSGeo Live 4.0

live - boot the Live System

xforcevesa - boot Live in safe graphics mode

install - start the installer directly

textonly - boot Live in textonly mode

debug - boot the Live System without splash and show b

mementest - Run mementest

hd - boot the first hard disk

Press [Tab] to edit options



OSGeo-Live



osgeo-live [Running] - VirtualBox OSE

Machine Devices Help



user

Automatic Login

Select language and click Log In

Language: English (United States) Keyboard: USA Sessions: Xubuntu Sessi Sat 2:11 PM



OSGeo-Live



Applications Geospatial [osgeo - Revision 7187: /li... Sun, 04 Sep 17:49 user

Install RELEA

Desktop GIS

passwords.txt

Databases

Spatial Tools

Navigation a...

Log out

Trash

Web Services

Reboot

File System

Browser Clie...

Shut down

- Browser Clients
 - Crisis Management
 - Databases
 - Desktop GIS**
 - Navigation and Maps
 - Spatial Tools
 - Web Services
 - OSGeo Software Help
- atlasstyler
 - geopublisher
 - GRASS GIS
 - gvSIG
 - Kosmo
 - Open Jump
 - OssimPlanet
 - Quantum GIS
 - SAGA GIS
 - SpatiaLite GIS
 - uDig





Open Source Geospatial Foundation (OSGeo)



Non Profit Umbrella for:

GeoSpatial Open Source
Software

Education

Open Data

<http://osgeo.org>



<http://live.osgeo.org>



OGC Standards

Interoperability

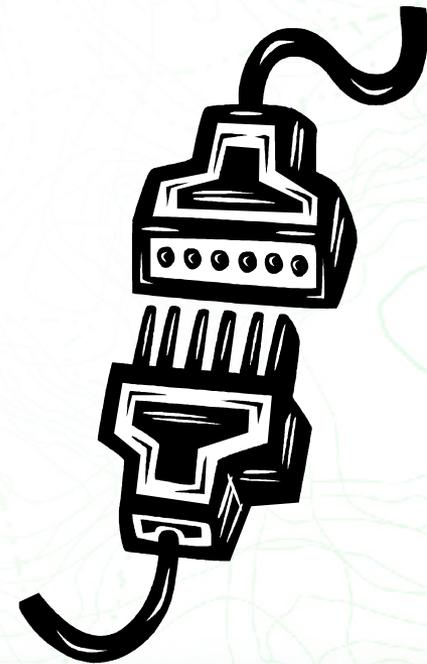


Future Proof

Return on Investment



OGC[®]
Open Geospatial Consortium, Inc.

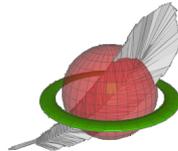


Databases

PostGIS



Spatialite



pgRouting



rasdaman
raster data manager



pgRouting – routing for PostGIS



pgAdmin III

File Edit Plugins View Tools Help

Object browser

- Servers (1)
 - local (localhost:5432)
 - Databases (7)
 - mapbender
 - osm_local
 - osm_local_sme
 - pgrouting
 - Catalogs (2)
 - Schemas (1)
 - public
 - Domains
 - FTS Conf
 - FTS Dicti
 - FTS Parse
 - FTS Temp
 - Functions
 - Sequence

Query - pgrouting on user@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

```
SELECT * FROM shortest_path(
  'SELECT gid as id, source, target, length AS cost
   FROM ways', 605, 359, false, false);
```

Output pane

Data Output Explain Messages History

	vertex_id integer	edge_id integer	cost double precision
1	605	702	0.10483378545471
2	604	37147	0.0661843275003415
3	19115	37148	0.0523255638550117
4	1012	1180	0.0148933890379493
5	1011	1179	0.135525932020211

Retrieving Schema details... Done.

pgAdmin III Query - pgrouting on u...



SpatiaLite – Compact Database



spatialite-gui [a GUI tool for SQLite/SpatiaLite]

Files

- /home/pi/data/geodata/spatialite/chgeostat.s
 - geom_cols_ref_sys
 - geometry_columns
 - geometry_columns_auth
 - geostatb
 - geostatk**
 - geostatl
 - geostatr
 - geostats
 - layer_params
 - layer_statistics
 - layer_sub_classes
 - layer_table_layout
 - pattern_bitmaps
 - project_defs
 - raster_pyramids
 - spatial_ref_sys

```
SELECT ROWID, "PK_UID", "KT", "NAME", "KURZ", "Geometry"
FROM "geostatk"
ORDER BY ROWID
```

	OWID	PK_UID	KT	NAME	KURZ	Geometry
				Obwalden	OW	BLOB sz=1802 GEOMETRY
				Nidwalden	NW	BLOB sz=1405 GEOMETRY
				Glarus	GL	BLOB sz=1629 GEOMETRY
				Zug	ZG	BLOB sz=1117 GEOMETRY
				Fribourg	FR	BLOB sz=5816 GEOMETRY
				Solothurn	SO	BLOB sz=5028 GEOMETRY
					BS	BLOB sz=669 GEOMETRY
					BL	BLOB sz=3002 GEOMETRY
					SH	BLOB sz=2663 GEOMETRY
				Schaffhausen	AR	BLOB sz=1805 GEOMETRY
				Appenzell A. Rhod. A.	AI	BLOB sz=1255 GEOMETRY
					SG	BLOB sz=4949 GEOMETRY
					GR	BLOB sz=7789 GEOMETRY
					AG	BLOB sz=4173 GEOMETRY
					TG	BLOB sz=3194 GEOMETRY

BLOB explorer

Hexadecimal dump | **Geometry explorer**

SRID: 4326

Geometry type: **MULTIPOLYGON**

#1 POLYGON:

- 1) exterior ring: 218 vertices
- 1.1) interior ring: 81 vertices
- 1.2) interior ring: 6 vertices

Geometry preview



Rasdaman – Raster Database

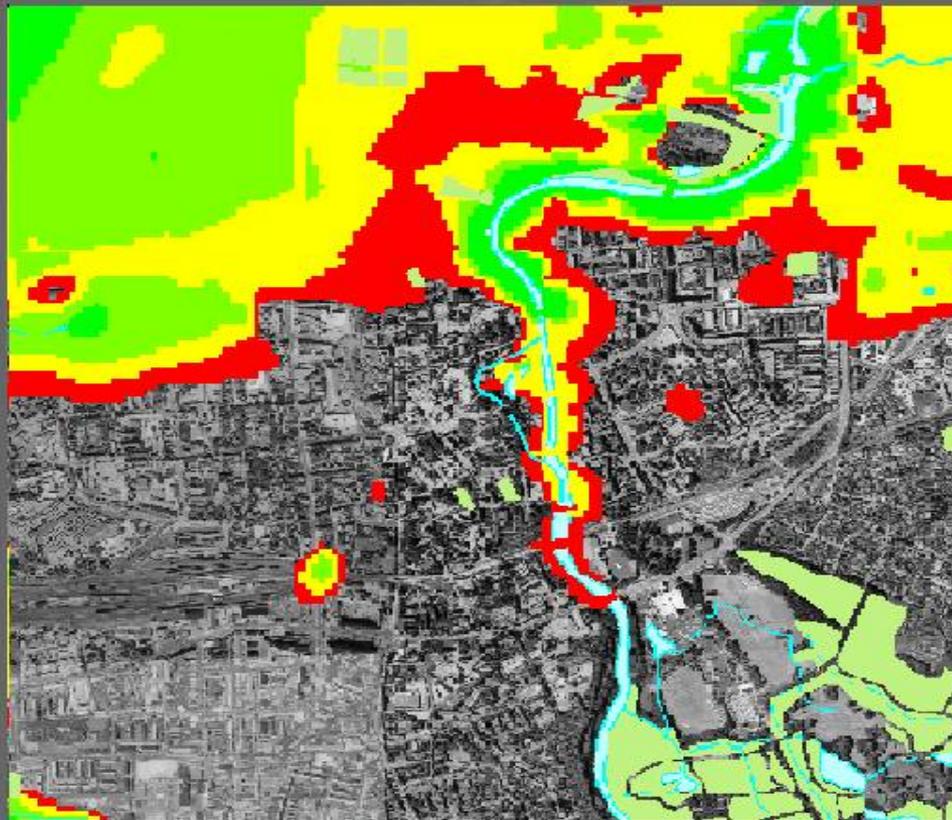
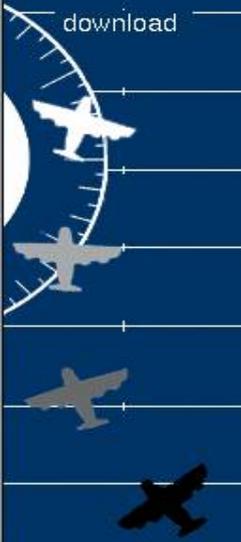


Earth Observation
for
Geo-information



home

download



Kartenlayer:

- TK50_Gebaeudelinien AdV_standard
- TK50_Gebaeudeflaechen AdV_standard
- TK50_Gewaesserlinien AdV_standard
- TK50_Gewaesserdecker AdV_standard
- TK50_Waldecker AdV_standard
- Hoehenmodell faerbbar
- Kombi standard
- Luftbild standard

verlagere markierte Layer:

Kartenbild & Navigation:

Bildgröße [Pixel]: 500x500



nördl. Rand:

5736643.39999999

westl. Rand:

3452605.9

östl. Rand:

3458725.9

südl. Rand:

5730523.39999999

Web Services

MapServer



TinyOWS



GeoServer



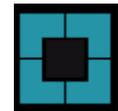
deegree



QGIS Server



MapProxy



52°North
WSS



52°North
SOS



52°North
WPS



ZOO Project



GeoNetwork



pycsw





MapServer – Web Services



osgeo-live4.0rc9 [Running] - VirtualBox OSE

Machine Devices Help

Applications Geospatial Places

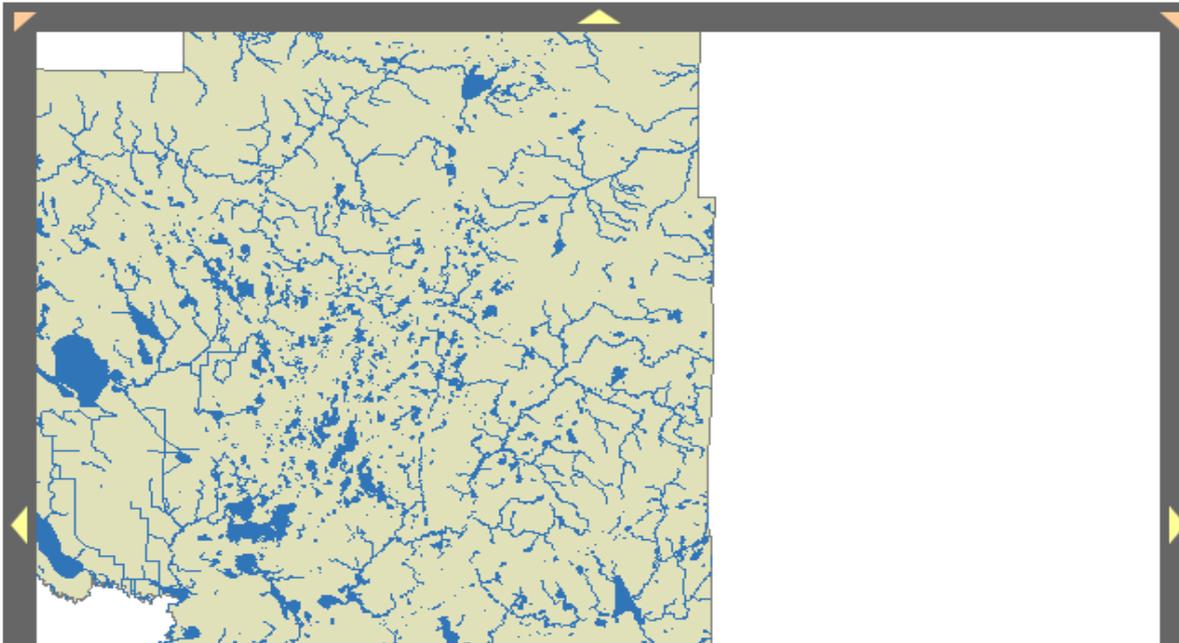
MapServer - Itasca Application - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost/cgi-bin/mapserv?mode=browse&layer=lakespy2&layer=dlgstln2

Most Visited Getting Started Latest Headlines

MapServer - Itasca Application



Refresh/Query

- Browse map
- Query feature
- Query multiple features

Select Layers to Display:

- Airports
- Cities
- Lakes & Rivers

Zoom In Pan Zoom Out

Zoom Size

Legend

- Streams
- Lakes & Rivers



TinyOWS - WFS-T



Quantum GIS 1.7.0-wroclaw

File Edit View Layer Settings Plugins Raster Tools Help

Layers

- tows:ways
- ways
- planet_osm_polygon

0 geometry error Coordinate: -104.97605,39.81862 Scale 1:11158 Render EPSG:4326



GeoServer – Web Services



GeoServer: Demo requests - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8082/geoserver/web/?wicket:interface

GeoServer: Demo requests

Request: WFS_getFeatureBBOX-1.0.xml

URL: http://localhost:8082/geoserver/wfs?wicket:interface

```

1 <!-- Performs a ge
2 <!-- The BBOX fil
3 <!-- it fetches a
4 <!-- This exampl
5 <!-- case we just
6
7 <wfs:GetFeature se
8   outputFormat="G
9   xmlns:topp="http
10  xmlns:wfs="http:
11  xmlns:ogc="http:
12  xmlns:gml="http:
13  xmlns:xsi="http:
14  xsi:schemaLocati
15
16 <wfs:Query type="
17   <ogc:PropertyT
18   <ogc:PropertyT
19   <ogc:Filter>
20     <ogc:BBOX>
21     <ogc:Prope
22     <gml:Box s
23     <gml:co
24     </gml:Box>

```

GeoServer: Web Feature Service

GeoServer

- Server
- Server Status
- Contact Information
- Global Settings
- JAI Settings
- About GeoServer

Services

- GWC
- WCS

Web Feature Service

Manage the publishing of feature data.

Service Metadata

- Enable WFS
- Strict CITE compliance

Maintainer

http://jira.codehaus.org/secure/BrowsePro

Find: demo

Done



deegree – Web Services



deegree



deegree Web Applications

[Services](#) (WMS, WFS, WCS)
[Client](#) (iGeoPortal)

Documentation

WMS
[deegree WMS](#) [PDF]
[readme](#) [TXT]

WFS
[deegree WFS](#) [PDF]
[readme](#) [TXT]

WCS
[deegree WCS](#) [PDF]
[readme](#) [TXT]

iGeoPortal
[deegree iGeoPortal](#) [PDF]
[readme](#) [TXT]

deegree online

[Home Page](#)
[Wiki](#)
[Demo Installation](#)
[Issue Tracker](#)
[Users Mailing List](#)
[Developers Mailing List](#)

deegree is a Java Framework offering the main building blocks for Spatial Data Infrastructures. Its entire architecture is developed using standards of the [Open Geospatial Consortium](#) (OGC) and [ISO/TC 211](#) (ISO Technical Committee 211 -- Geographic Information/Geomatics).

deegree encompasses OGC Web Services as well as Clients and security components.

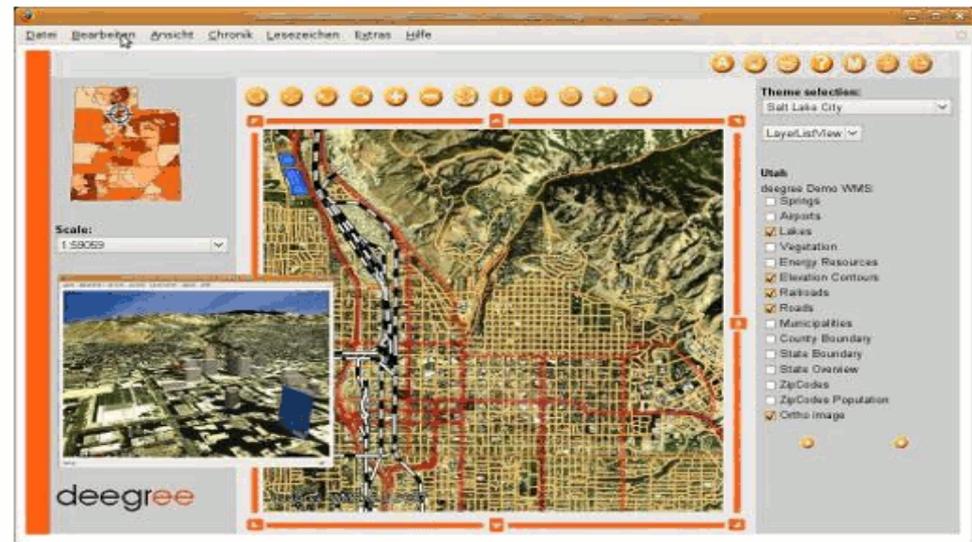
deegree is built by a number of participants. lat/lon and the GIS Research Group of the Department of Geography of University of Bonn are responsible for project coordination.

deegree is Free Software:

- deegree web services are protected by the [GNU Lesser General Public License \(GNU LGPL\)](#),
- deegree iGeoPortal is protected by the [GNU General Public License \(GNU GPL\)](#).

deegree is an [OSGeo project](#).

Thanks for using deegree!





QGIS Server – WMS



Quantum GIS 1.5.0-Tethys - NaturalEarth

File Edit View Layer Settings Plugins Vector CadTools Help

Layers

- 10m_populated_place...
 - 0.000 - 10668.000
 - 10668.000 - 42849.000
 - 42849.000 - 108420.000
 - 108420.000 - 327004.000
 - 327004.000 - 35676000.000
- Water
 - 10m_rivers_lake_centerlines
 - 0.0000 - 2.0000
 - 2.0000 - 4.0000
 - 4.0000 - 6.0000
 - 6.0000 - 8.0000
 - 8.0000 - 10.0000
 - 10m_lakes
 - 10m_ocean
- HYP_50M_SR_W
- 10m_land

Overview

Layer Properties - 10m_rivers_lake_centerlines

Renderer: Graduated

Column: ScaleRank

Symbol: change

Color ramp: [source]

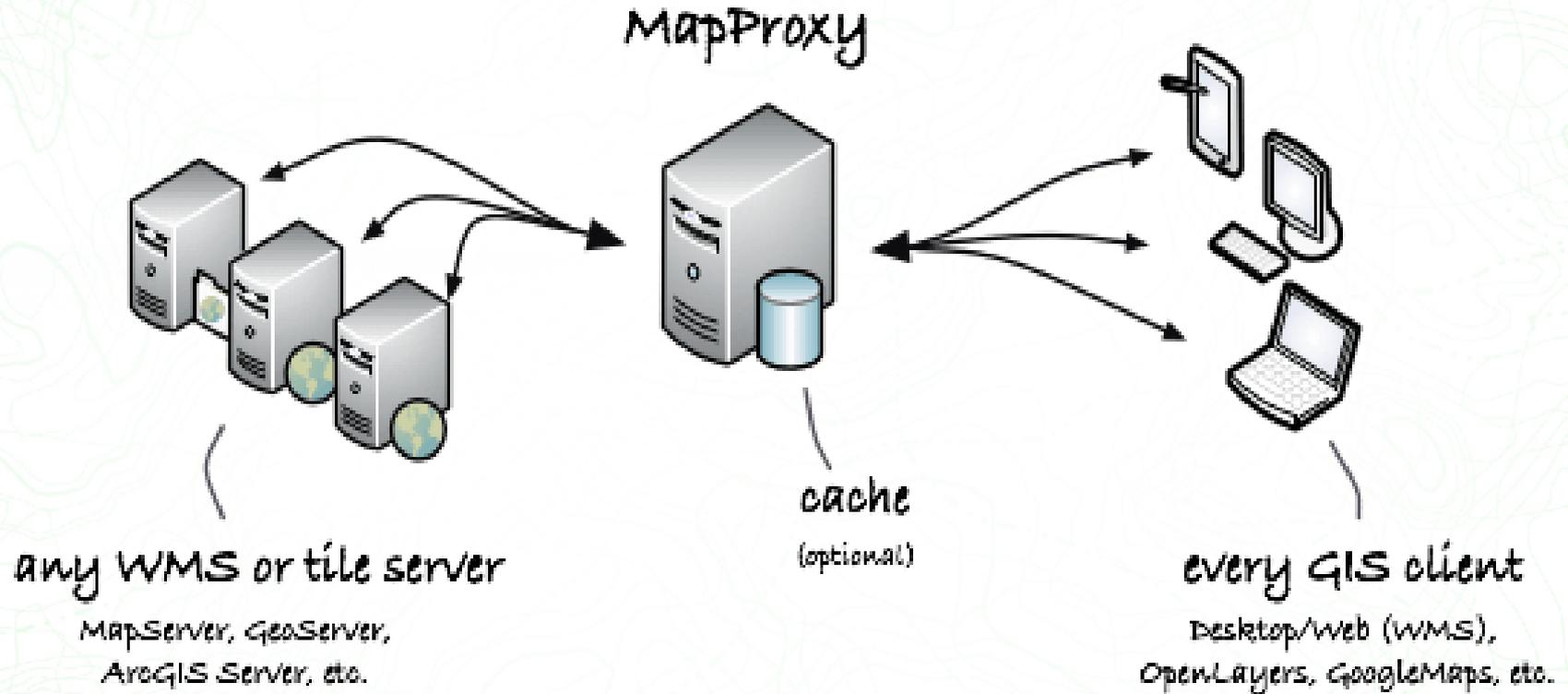
Symbol	Range	Label
0.0000 - 2.0000	0.0000 - 2.0000	0.0000 - 2.0000
2.0000 - 4.0000	2.0000 - 4.0000	2.0000 - 4.0000
4.0000 - 6.0000	4.0000 - 6.0000	4.0000 - 6.0000
6.0000 - 8.0000	6.0000 - 8.0000	6.0000 - 8.0000
8.0000 - 10.0000	8.0000 - 10.0000	8.0000 - 10.0000

Labels

Attributes



MapProxy – WMS & Tile Proxy





MapTiler



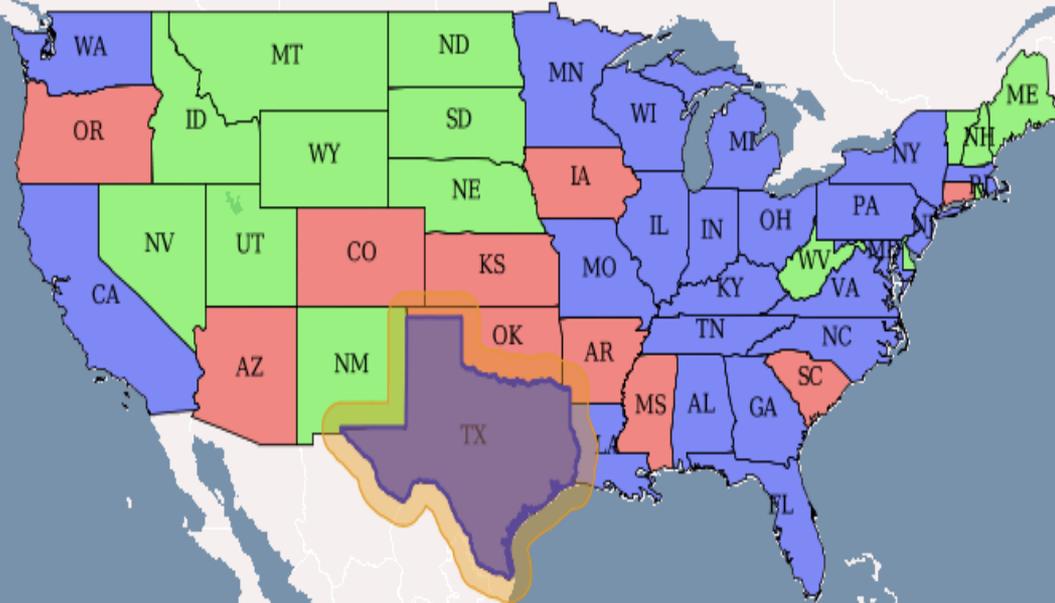
<http://live.osgeo.org>



ZOO – Web Processing Service



ZOO



ZOO Spatial Tools demo

© Copyright [GeoLabs](#) & [3LIZ](#)



52°North WPS – Web Processing Service



WPS TestClient...

52north

Server:	http://localhost:8083/wps/WebProcessingService
Request:	<pre><wps:DataInputs> <wps:Input> <ows:Identifier>data</ows:Identifier> <wps:Reference schema="http://schemas.opengis.net/gml/2.1.2/feature.xsd" xlink:href="http://giv-wps.uni-muenster.de:8080/geoserver/wfs"> <wps:Body> <wfs:GetFeature service="WFS" version="1.0.0" outputFormat="GML2" xmlns:topp="http://www.openplans.org/topp" xmlns:wfs="http://www.opengis.net/wfs" xmlns:ogc="http://www.opengis.net/ogc" xmlns:gml="http://www.opengis.net/gml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.opengis.net/wfs http://schemas.opengis.net/wfs/1.0.0/WFS-basic.xsd"> <wfs:Query typeName="topp:states"> <wfs:PropertyName>topp:STATE_NAME</wfs:PropertyName> <wfs:PropertyName>topp:PERSONS</wfs:PropertyName> <wfs:PropertyName>the_geom</wfs:PropertyName> </wfs:Query> </wps:Body> </wps:Reference> </wps:Input> </wps:DataInputs></pre>
	<input type="button" value="Clear"/>
	<input type="button" value="Send"/>



52°North SOS – Sensor Observation Service



SOS TestClient Version 2.1 - [old version](#).



For more information about the 52°North Sensor Observation Service visit <http://52north.org/sos>.
A more sophisticated SOS client is available from 52°North servers. Visit <http://sensorweb.demo.52north.org/SOSclient/> for the client and http://52north.org/communities/sensorweb/clients/Thin_SWE_Client/Version_2.0/ for documentation and further information.

Service URL:

Request Examples:

1

You can change the examples in the folder [project-directory]/52n-sos-service/src/main/webapp/examples/.

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <GetCapabilities xmlns="http://www.opengis.net/sos/1.0"
3   xmlns:ows="http://www.opengis.net/ows/1.1"
4   xmlns:ogc="http://www.opengis.net/ogc"
5   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
6   xsi:schemaLocation="http://www.opengis.net/sos/1.0
7   http://schemas.opengis.net/sos/1.0.0/sosGetCapabilities.xsd"
8   service="SOS">
9
10  <ows:AcceptVersions>
11    <ows:Version>1.0.0</ows:Version>
12  </ows:AcceptVersions>
13
14  <ows:Sections>
15    <ows:Section>OperationsMetadata</ows:Section>
16    <ows:Section>ServiceIdentification</ows:Section>
17    <ows:Section>ServiceProvider</ows:Section>
18    <ows:Section>Filter_Capabilities</ows:Section>
19    <ows:Section>Contents</ows:Section>
20  </ows:Sections>
21
```

2

This TestClient was successfully tested in Firefox 3.5.2, Safari 4.0.3, Opera 9.64 and InternetExplorer 8.0.6001.18702 and should work properly in Firefox 1.0 or higher, Safari 1.2 or higher, Opera 8 or higher and InternetExplorer 5 or higher. The editor is based on CodeMirror (<http://marijn.haverbeke.nl/codemirror/>).



52°North WSS - Security



Enforcement Point Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8080/wss/site/manage.html

Manage Enforcement Points

Enforcement Points Create

Show 10 entries Search:

ID	Protected Service	Type	Authenticaton Methods	Action
sos_weather	http://v-swe.uni-muenster.de:8080/WeatherSOS/sos	SOS	htpauth noauth saml WSS	Delete
wfs_giv	http://giv-wps.uni-muenster.de:8080/geoserver/wfs	WFS	htpauth noauth saml WSS	Delete
wms_demis	http://www2.demis.nl/worldmap/wms.asp	WMS	htpauth noauth saml WSS	Delete
wps_giv	http://giv-wps.uni-muenster.de:8080/wps/WebProcessingService	WPS	htpauth noauth saml WSS	Delete

Showing 1 to 4 of 4 entries

First Previous 1 Next Last



GeoNetwork – Metadata Catalogue



GeoNetwork™
OpenSource
Geographic data sharing for everyone

Home | Contact us | Links | About | Help |

Username Password Login English

WHAT?

WHERE?



- Any -

Search

Reset Advanced

Options

- Applications
- Audio/Video
- Case studies, best practices
- Conference proceedings
- Datasets
- Directories
- Interactive resources
- Maps & graphics
- Other information resources
- Photo



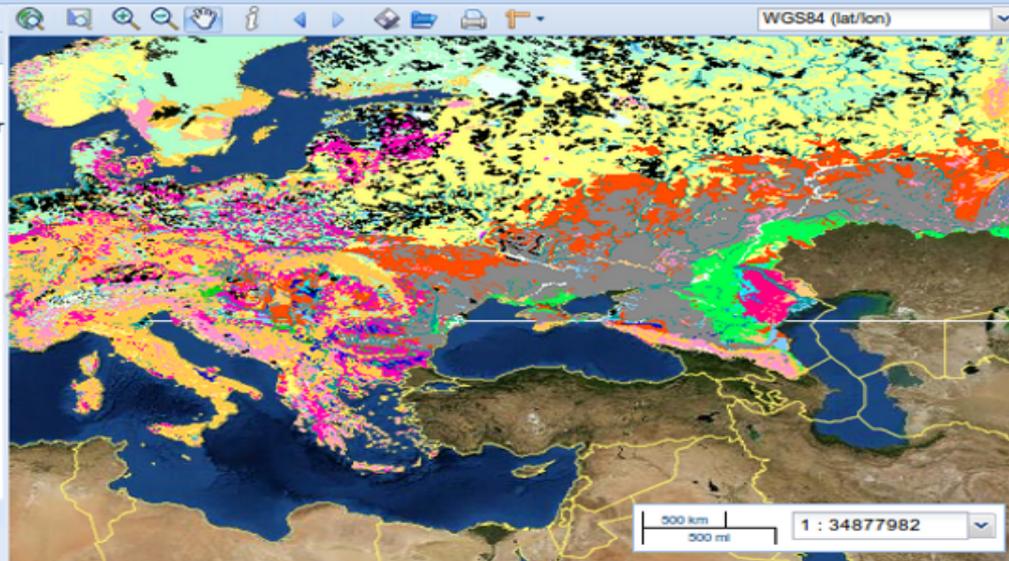
GeoRSS

- PROPOSAL TEMPLATE FOR VIETNAM
- DEMO
- Test
- Country Boundaries
- European Cities
- Eurasia Lakes - Inland Waters
- WRBFU. Full soil Code
- WRBLV1. Soil reference group
- WRBADJ1. First Soil Adjective Code
- WRBADJ2. 2nd Soil Adjective Code

Map viewer

Layer tree

- Base Layer
- Overlays
 - WRBLV1. Soil refer
 - Borders



Print

Legend

FIND INTERACTIVE MAPS, GIS DATASETS, SATELLITE IMAGERY AND RELATED APPLICATIONS

Aggregate Results matching search criteria : 1-4/4 (page 1/1), 0 selected

Select : [all](#), [none](#)

actions on selection

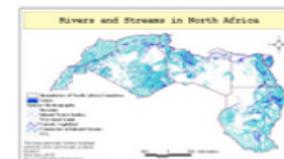
Sort by [Relevance](#)



RIVERS AND STREAMS IN NORTH AFRICA (CEDARE)

Abstract
Keywords

hydrography, North Africa



Metadata

ESA TIGER WEBSITE (DRAFT FOR DEMO)



pycsw – Metadata Catalogue



```

http://catalog.dev.g...sotc211.org/2005/gmd
<csw:GetRecordsResponse version="2.0.2" xsi:schemaLocation="http://www.opengis.net
/cat/csw/2.0.2 http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:SearchStatus timestamp="2012-02-09T20:23:28Z"/>
  <csw:SearchResults numberOfRecordsReturned="7" nextRecord="0"
  numberOfRecordsMatched="7" recordSchema="http://www.isotc211.org/2005/gmd"
  elementSet="full">
    <gmd:MD_Metadata xsi:schemaLocation="http://www.isotc211.org/2005/gmd
    http://www.isotc211.org/2005/gmd/gmd.xsd">
      <gmd:fileIdentifier>
        <gco:CharacterString>c1ae3bf1-bbb3-4081-
        bc95-429fadf0e797</gco:CharacterString>
      </gmd:fileIdentifier>
      <gmd:language>
        <gco:CharacterString>eng</gco:CharacterString>
      </gmd:language>
      <gmd:characterSet>
        <gmd:MD_CharacterSetCode codeSpace="ISOTC211/19115"
  
```

File Tools Window Help

★ Edition: d9e0fa4f-338d-11e0-b069-001de07e515988888 - roadrunner ambush locations

HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata standard version
- Dataset URI
- Spatial representation information
- Reference System information
- Metadata extension information
- Identification Information
 - MD_DataIdentification
 - Citation
 - CI_Citation
 - Title
 - Alternate title
 - Date
 - Edition
 - Edition date
 - Identifier

(360) Identification Information.MD_DataIdentification.Citation.CI_Citation

Element definition:
name by which the cited resource is known

roadrunner ambush locations

Buttons: Edit, Save, Cancel

Server response

Property	Value
Identifier	077077ea-2d71-4614-9763-268b6b1d2f6e
Title	CA
Abstract	No abstract provided
Subjects	United States of America
Creator	
Contributor	
Publisher	
Modified	
Language	eng
Format	
Rights	
Bounding box	-92.25, 7.21, -77.2, 18.49

Close

Bounding box:

90 From map canvas

-180 180 Set global

-90

Search

Show: 7 from 7

Type	Title	Identifier
dataset	NIC_Rain_1000y...	c1ae3bf1-bbb3-4081-bc95-429fadf0e...
dataset	NIC_0.5s_200y	a75e88d1-dbd9-4f6e-b037-e4bf9321...
dataset	nic_admin	d11237c1-1197-4ffe-b4a0-3b805e06...
dataset	CA	077077ea-2d71-4614-9763-268b6b1...
dataset	distrits	3335b8c4-da2c-4490-9879-ca3442ac...

Abstract

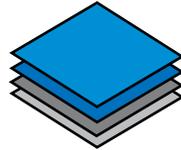
No abstract provided

Buttons: Add to WMS list, Open URL, Metadata, View XML

Close

Web Mapping

OpenLayers



MapFish



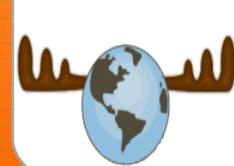
Geomajas



Mapbender



GeoMOOSE

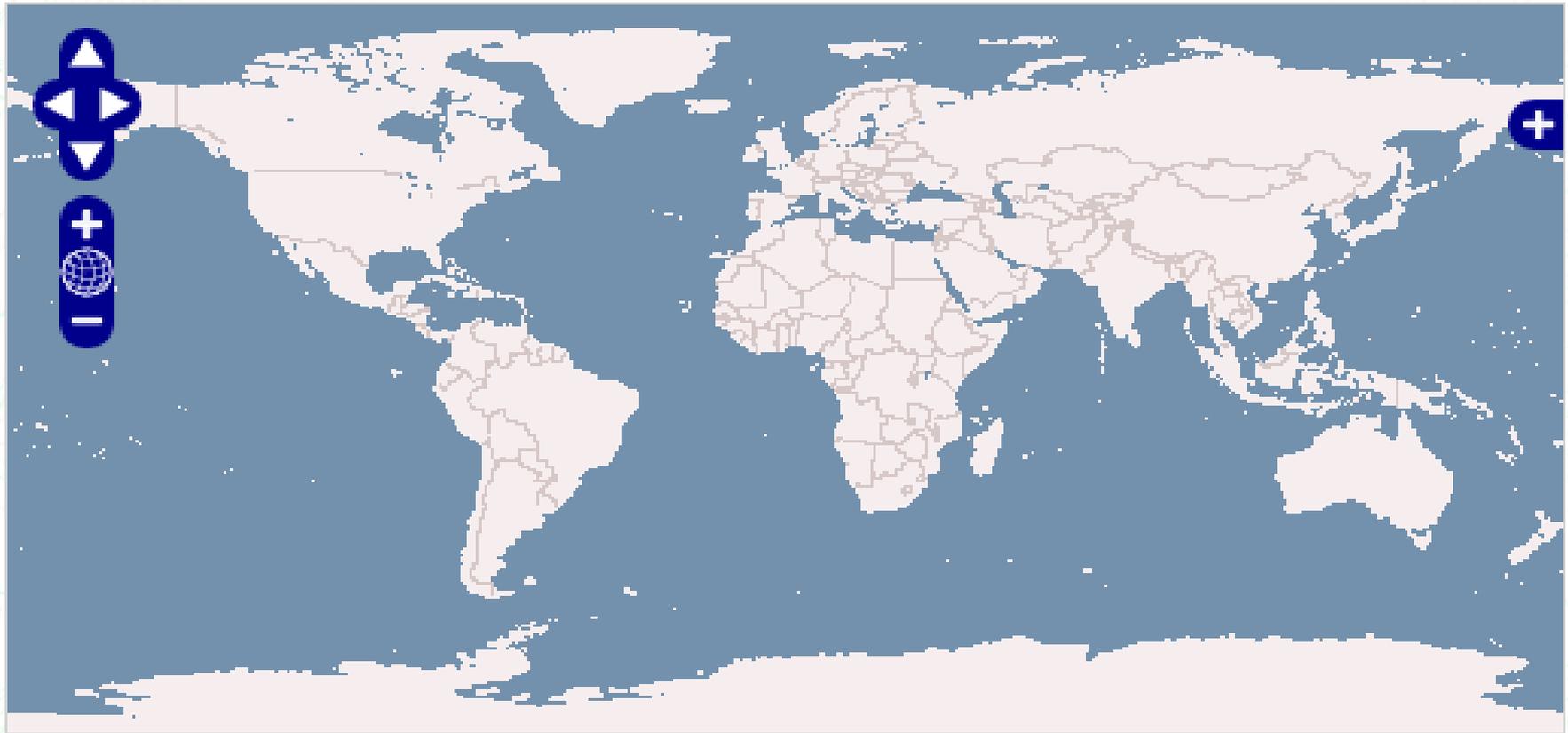


Web Mapping

<http://live.osgeo.org>



OpenLayers – Browser client





MapFish – Browser Client



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Administration admin.ch

Federal Department of Economic Affairs FDEA

Federal veterinary office FVO - InfoSM



[Kontakt](#) | [Help](#)

[Deutsch](#) | [Français](#)
[Italiano](#) | [English](#)

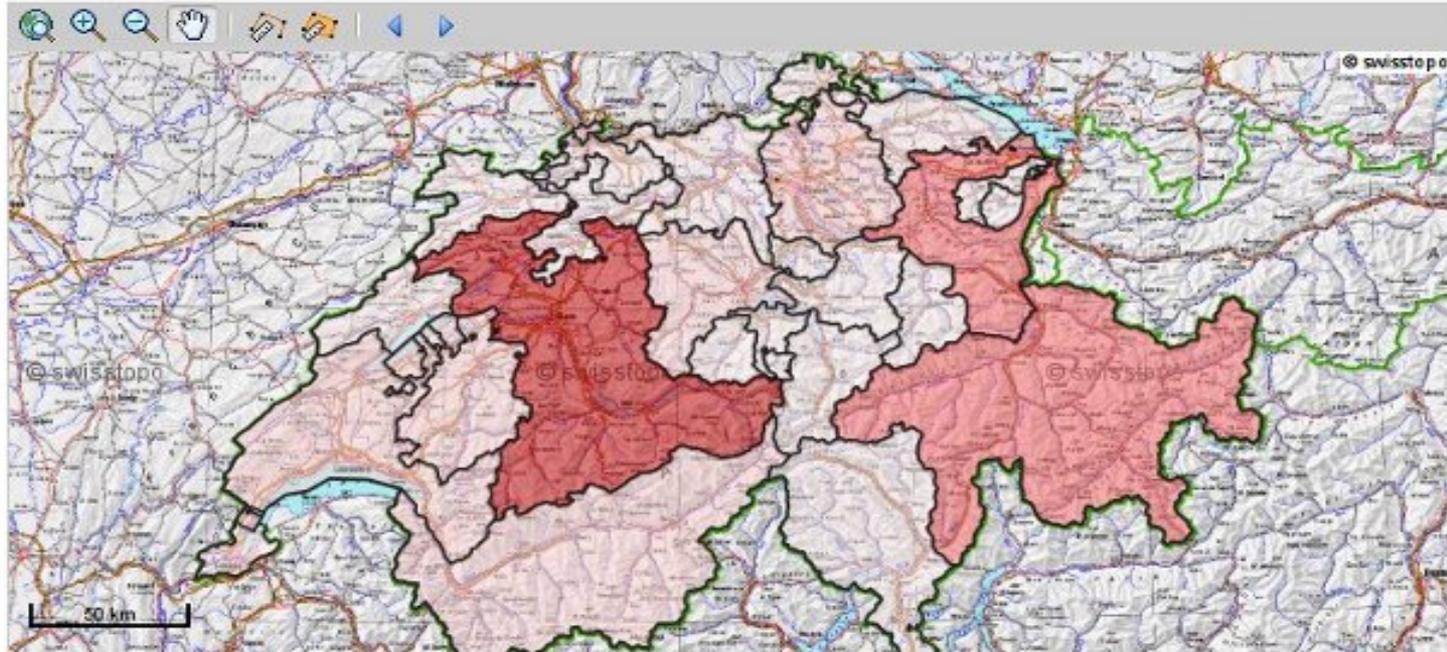
Layer Tree

- Statistiken
- Aggregierte Daten
- Thematiken
- Background

[Print](#) +

[Overview Map](#) +

InfoSM > Geographic analysis



Scale = 1 : 6'500'000
Koordinaten (m): 718825, 165625



Mapbender – Geoportal Framework



gui_digitize - presented by Mapbender - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://localhost/mapbender/frames/index.php?PHPSESSID=c0406bba3c53af: Mapbender

gui_digitize - presented by Map...

Mapbender



Demis World Map

Maps

Legend

Print

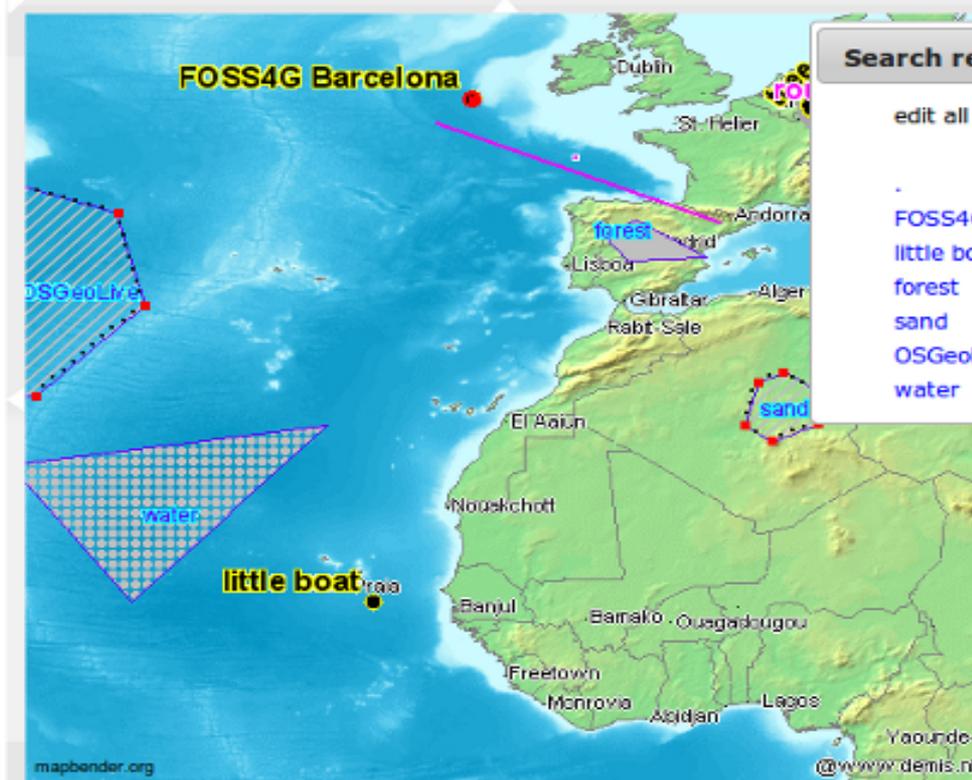
Search

Imprint

Digitize



- FOSS4G Barcelona (point)
- sand (polygon)
- OSGeoLive (polygon)



Search results

- edit all
- FOSS4G Barcelona
- little boat
- forest
- sand
- OSGeoLive
- water

Fertig



Geomajas – Browser Client



Geomajas GWT Showcase

Developer Console

Graphite

Introduction

Edit a Polygon layer

Locale: English

View Source

The screenshot shows the Geomajas browser client interface. The main map area displays a satellite-style map with a yellow polygon overlaid on a landmass. The polygon's vertices are marked with orange dots. A right-click context menu is open over the polygon, listing various editing actions. A 'Geometric info' box is visible on the right side of the map, displaying the area, length, and number of points for the selected polygon. The interface includes a toolbar on the left with navigation and editing tools, and a bottom panel with buttons for creating and editing features.

Geometric info:
Area: 46,328.763km²
Length: 1,412.255km
Nr points: 32

Description

This example demonstrates the ability to edit a Polygon layer. Just activate the editing tool in the toolbar, and start!

Note that most actions are triggered from the right mouse menu.

Also note that editing is restricted to the layer's bounds.

- Edit attributes
- Undo last operation
- Cancel editing
- Save editing
- Add point modus
- Insert point
- Remove point
- Add interior ring
- Remove interior ring
- Toggle geometric info
- Toggle snapping to selected layer

Create a new feature Edit a feature Delete a feature Create donut polygon

How do I create a new feature?

Prerequisites

1. Enable editing mode () in the tool bar.
2. Select the layer you want to create in. This can normally be done in the layer control. **In this showcase, the vector layer is already selected.**
Hint: you can only create new features in vector-layers.

Creating a new feature

- 1 **Start:** Simply click the RIGHT mouse button on the map, and a menu will appear. At the top of this menu, you will see "Create new feature". Select



GeoMOOSE – GIS Portal



GeoMOOSE 2.2

Welcome to GeoMOOSE – GeoM...

GeoMOOSE 2.2

http://www.geomoose.org/demo/geomoose2/geom

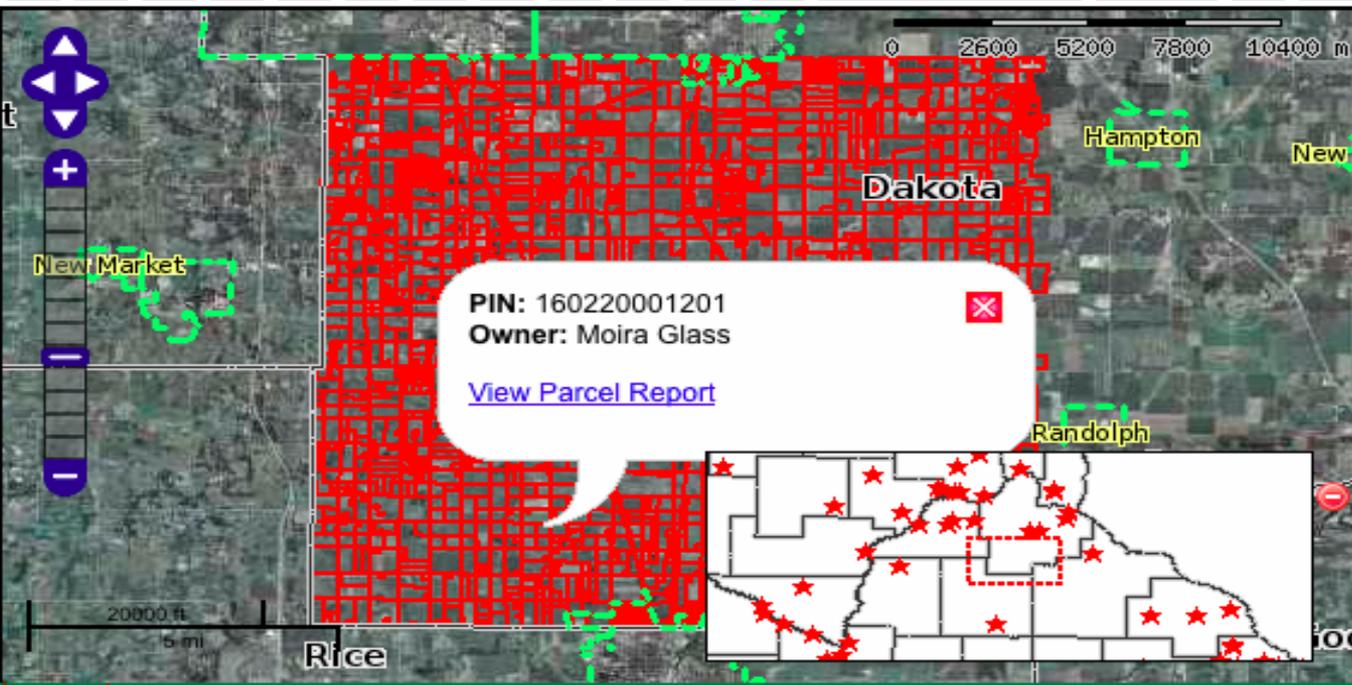
Google

- SPNet: City/Cou...
- Novell WebAccess
- 7-Day STPL
- CAP Mission Ima...
- 7-Day Woodville
- Bookmarks



MOOSEMAPPING

Navigation and tool icons: Home, Back, Forward, Home, Search, Search, Info, Add Layer, Remove Layer, Edit, Measure, Search Parcels, Print, Print, Print, Sketch Tools



Jump To: [Dropdown]

Catalog | Information | Custom

- County Layers
 - Metro Water
 - Watersheds
 - DNR WMS
 - Pipelines
 - Fire Stations
 - Parcels
 - Pipelines & Parcels

GeoMOOSE 2.2 X,Y: 496072.60766, 4929873.47673 Lat, Lon: 44.522, -93.049 USNG: 15TVK96072987 Scale:

Find: Next Previous Highlight all Match case

Desktop Applications

AtlasStyler



Grass GIS



Geopublisher



gvSig



Kosmo



uDig



SAGA



OpenJUMP



osgEarth

OSGEARTH

OSSIM



Quantum GIS



MapWindow

MAPWINDOW

Desktop Applications

<http://live.osgeo.org>



GRASS – Desktop GIS



GRASS GIS Map Display: 1 - Location: nc_spm_08

File Config Raster Vector Imagery Volumes

Display 1

- soils_wake@PERMANENT (opacity: 40%)
- roadsmajor@PERMANENT (opacity: 100%)
- slope@PERMANENT (opacity: 100%)

GRASS GIS Attribute Table Manager - <roadsmajor@PERMANENT>

1 / Table roadsmajor

Attribute data - right-click to edit/manage records

cat	MAJORRDS_	ROAD_NAME	MULTILA	PROPYE	OBJECTID	SHAPE_LEN
10	10	NC-98	no	0	10	8446.822876
11	11	NC-98	no	0	11	14876.323626
12	12	NC-98	no	0	12	11610.268716
13	13		no	0	13	11828.121704
14	14		no	0	14	5524.875869
15	15	NC-98	no	0	15	4739.53603
16	16	NC-96	no	0	16	8586.517385
17	17				17	12072.22728
18	18	NC-50			18	891
19	19	US-401			19	882
20	20	NC-96			20	831
21	21				21	801

SQL Query

Simple SELECT * FROM roadsmajor

Advanced SELECT * FROM roadsmajor

Browse data Manage tables Manage

- Edit selected record
- Insert new record
- Delete selected record(s)
- Delete all records
- Select all
- Deselect all
- Highlight selected features**
- Highlight selected features and zoom
- Extract selected features
- Delete selected features
- Reload

Apply SQL Builder

635793.23, 225259.10



Quantum GIS – Desktop GIS



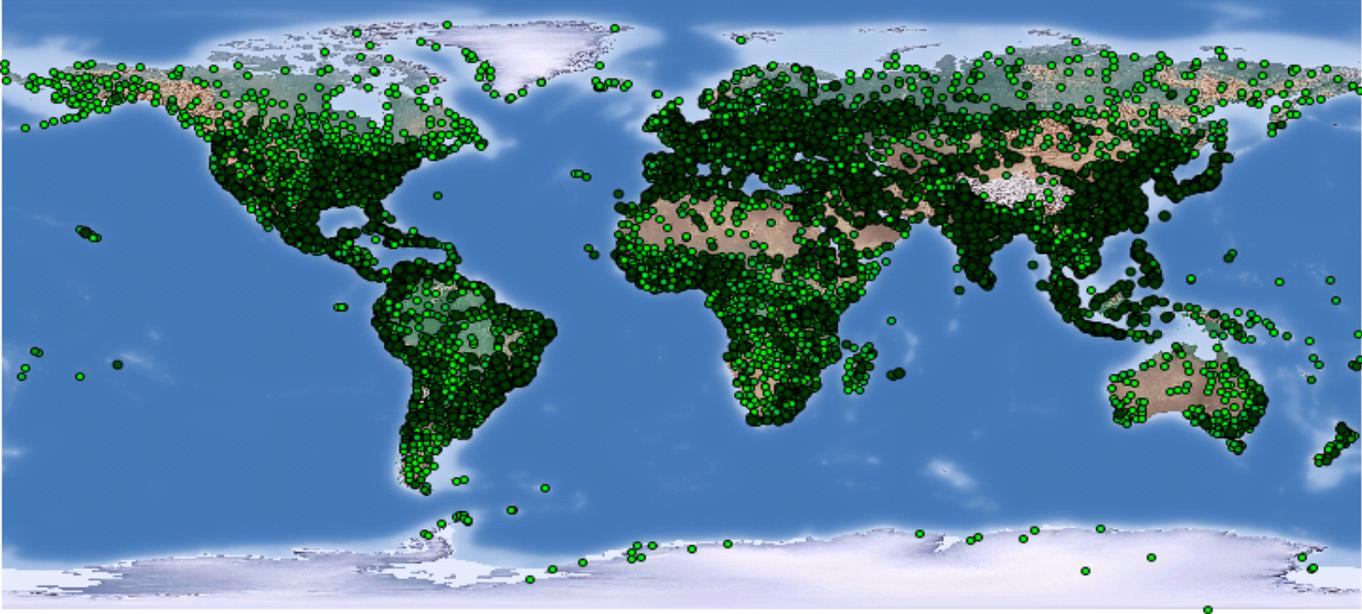
Applications Places 04:58

Quantum GIS 1.4.0-Enceladus - QGIS-NaturalEarth-Example

File Edit View Layer Settings Plugins Vector Help

Layers

- 10m populated places si...
 - 0.000 - 10668.000
 - 10668.000 - 42849.000
 - 42849.000 - 108420.000
 - 108420.000 - 327004.000
 - 327004.000 - 35676000.000
- Water
- 10m_rivers_lake_center...
- 10m_lakes
- 10m_ocean
- HYP_50M_SR_W
- 10m_land



Coordinate: 40.4,108.5 Scale: 1:208428636 Render

Quantum GIS 1.4.0-En...



gvSIG – Desktop GIS



File Show View Table Map Window Help

View : Untitled - 0

- Communic
 - Highway
 - Highway (alt)
 - National
 - Regional 1
 - Regional 2
 - Regional 3
 - Railway
 - VIAL
 - Tram
- Municipalities
- Blue Marble

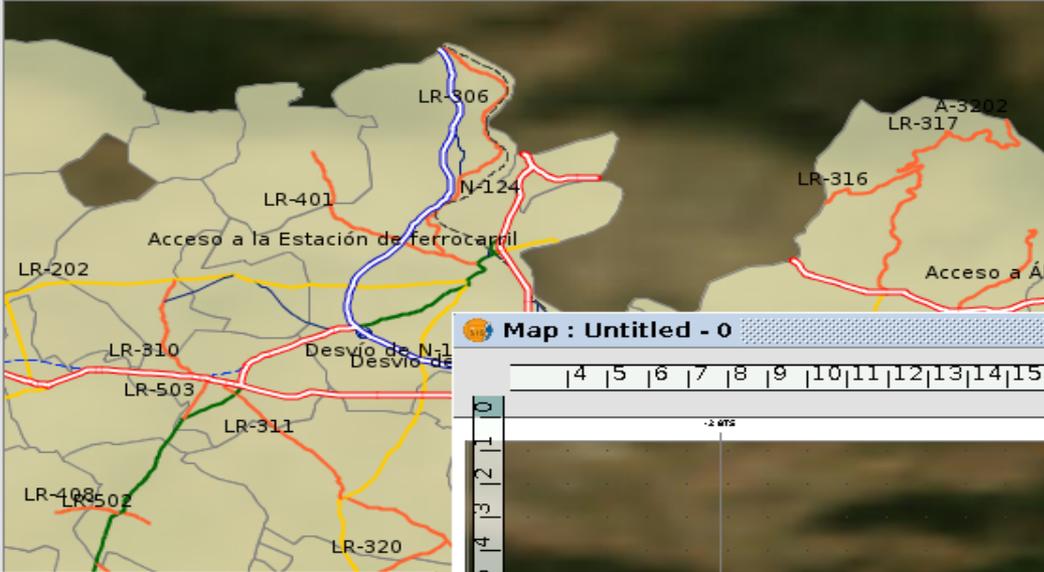
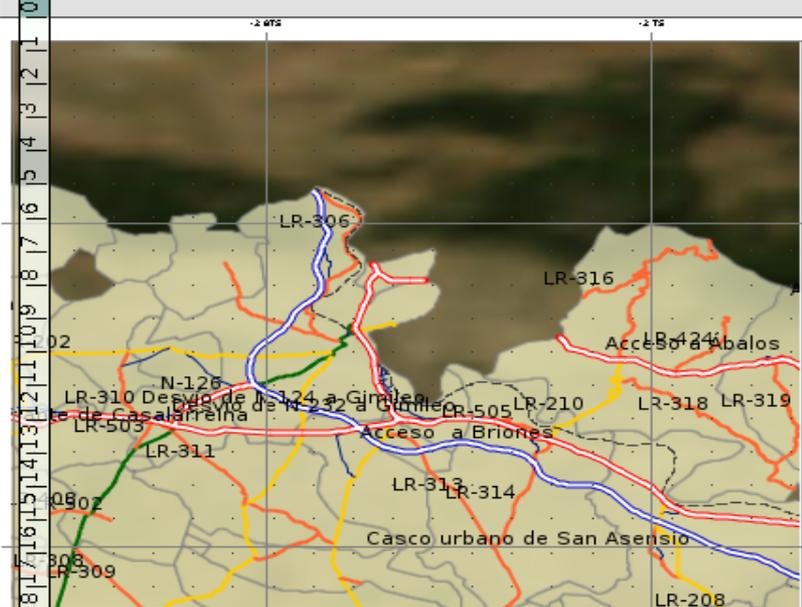


Table: Table of attributes...

NOMBRE	OBSERVA...	TIPO
LR-493		CAUT3
Acceso a Navajún		VIAL
Acceso a Navajún		VIAL
LR-284		CAUT2
LR-493		CAUT3
Acceso a Navajún		VIAL
LR-388		CAUT3
LR-388		CAUT3
Acceso a Navajún		VIAL
LR-284		CAUT2
LR-490		CAUT3

Map : Untitled - 0



Sample map

- Communications
 - Highway
 - Highway (alt)
 - National
 - Regional 1
 - Regional 2
 - Regional 3
 - Railway
 - VIAL
 - Tram
- Municipalities

SEXTANTE - 292 Algorithms

SEXTANTE

Algorithms

- Basic hydrological analysis
- Basic tools for raster layers
- Buffers
- Calculus tools for raster layer
- Cost, distances and routes
- Fire modeling
- Focal statistics
- Fuzzy logic
- Geomorphometry and terrain analysis
- Geosocial

Search



uDig: User-friendly Desktop Internet GIS



The screenshot displays the uDig software interface. The main window shows a map of Southeast Asia with various countries labeled, including India, Bangladesh, Myanmar, Laos, Vietnam, Thailand, Cambodia, Brunei, Malaysia, Indonesia, Philippines, and Taiwan. A scale bar indicates 600 km. The map is overlaid with a grid and a blue marble style. The interface includes a menu bar (File, Edit, Navigation, Layer, Map, Data, Window, Help), a toolbar with navigation and editing tools, and a left sidebar with project and layer management options. The layer list includes Scalebar, Cities, Countries, Grid, Blue Marble, and Clouds. The bottom panel shows a search filter set to 'LANDLOCKED = 'Y'' and a table of selected features.

CNTRY_NAME	LONG_NAME	SOVEREIGN	POP_CNTRY	CURR_TYPE	CURR_C...	LANDLOCKED	SQKM
Laos	Laos	Laos	4722773	Kip	LAK	Y	230602.78
Latvia	Latvia	Latvia	2690291	Lat	LVL	N	64324.77
Lebanon	Lebanon	Lebanon	2942959	Pound	LBP	N	10217.3



OpenJUMP GIS



The screenshot shows the OpenJUMP GIS main window. The title bar reads 'OpenJUMP'. The menu bar includes 'File', 'Edit', 'View', 'Layer', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for navigation and editing. The map area displays a cadastral map of 'norderstedt' with several colored polygons labeled 'Schulze', 'Mayer', and 'Lehmann'. A legend on the left shows layers like 'v_mayer', 'strassen_nor', 'gobaeude_nor', 'baeume_nor', 'grundstuecke_nor', and 'norderstedt_farbig'. An 'Editing' toolbar is visible in the bottom-left corner. A 'Attributes: v_mayer' dialog box is open, showing a table of features.

FID	eigentuemer	flaeche
12	Mayer	549.646484375
13	Mayer	586.9296875

The 'Change Styles' dialog box is open, showing options for 'Rendering', 'Scale', 'Colour Theming', 'Labels', and 'Decorations'. The 'Rendering' tab is active, with checkboxes for 'Fill', 'Line', and 'Sync line colour with fill colour'. A 'Line width' slider is set to 1, and a 'Transparency' slider is set to 100. A 'Previews' section shows a color palette and a gradient bar. The dialog includes 'OK' and 'Cancel' buttons.

The screenshot shows the OpenJUMP GIS main window for 'Project 1'. The title bar reads 'OpenJUMP'. The menu bar includes 'File', 'Edit', 'View', 'Layer', 'Tools', 'Customize', 'Window', and 'Help'. The toolbar contains various icons for navigation and editing. The map area displays a topographic map with various colored polygons and lines. A legend on the left shows layers like 'carta stradale', 'isopse 50.000', and 'unità'. A 'Attributes: unità' dialog box is open, showing a table of features.

FED	ID	HECTARES
5349	Chiana	10.748
5350	Falterona	1.379
5351	Falterona	3.573
5352	Chiana	18.755
5353	Chiana	27.774
5354	Chiana	164.327
5355	Chiana	150.495
5356	Chiana	121.48
5357	Chiana	546.945
5358	Chiana	91.919
5359	Chiana	13.393
5360	C1M	1.049
5361	Chiana	8.53
5362	Siena	1.154

The 'Feature Info: Project 1' dialog box is open, showing a table of features for the 'carta stradale' layer. The table includes columns for 'FID', 'WKT', 'GML', and 'CL'. The 'FID' column contains the value 2501. The 'WKT' column contains a LINESTRING geometry. The 'GML' and 'CL' columns are empty.

FID	WKT	GML	CL
2501	LINESTRING (1743570.343558577 4791142.22826701, 1742754.9751286912 4792545.173488806, 1742604.8035884178 4792823.725854272, 1742211.3882792266 4793482.503214273, 1741996.3506810807 4793862.719966407, 1741546.4203796445 4794547.941653403, 1740964.2615672976 4795560.500269689, 1740553.1795960201 4796099.34118304, 1740300.2017316245 4796392.153950961,		



Kosmo – Desktop GIS



Applications Places 13:29

Kosmo - Open Geographical Information System - v.2.0 (20100701) [Barcelona - OSM data]

File Edit View Tools Sextante Window Help

Scale 1: 2,655

Working

- planet_osm_line
- planet_osm_point
- planet_osm_polygon
- planet_osm_roads
- Servidor raster ICC

Layers
Bookmark manager

00:00:01 (Save Project) (2.176684 ; 41.405318)

Kosmo - Open Geogra...



SAGA – Desktop GIS



SAGA Desktop GIS interface showing a workspace with multiple map windows and a settings panel.

Workspace:

- Module Libraries
 - Contributions - A. Perego
 - Contributions - T. Wutzler
 - Geostatistics - Grids
 - Geostatistics - Kriging
 - Geostatistics - Points
 - Grid - Analysis
 - Grid - Calculus
 - Grid - Discretisation
 - Grid - Filter
 - Grid - Gridding
 - Grid - Spline Interpolation
 - Grid - Tools
 - Grid - Visualisation
 - Import GPS Data
 - Import/Export - DXF
 - Import/Export - ESRI E00
 - Import/Export - GDAL/OGR
 - Import/Export - GRIB Files
 - Import/Export - Grids
 - Import/Export - Images
 - Import/Export - LAS
 - Import/Export - Shapes
 - Import/Export - Tables
 - Import/Export - Tables using OGC
 - Lectures - Introducing Module P
 - Point Cloud - Tools
 - Point Cloud - Viewer
 - Projection - GeoTRANS
 - Projection - Georeferencing
 - Projection - Proj.4
 - Recreations - Fractals
 - Recreations - Games
 - Shapes - Grid
 - Shapes - Lines
 - Shapes - Lines (extended)
 - Shapes - Points

Map Windows:

- 04. Map:** Topographic map with a green grid overlay.
- 03. Map:** Satellite-style map with a red and green overlay.
- 01. Map:** Satellite-style map with red points and labels: Bovenden, Kreber, Ebergöt, Waake, Landolfshaus, Göttingen, and Osdon.
- 3D-View [02. Map]:** 3D terrain visualization.

Messages:

```
[2010-07-26/14:09:55] Load grid: Z:\tmp\forest_of_goettingen\landsat_band_07.dgm...okay
[2010-07-26/14:09:55] Load grid: Z:\tmp\forest_of_goettingen\landsat_band_rgb_composite.dgm...okay
[2010-07-26/14:09:55] Load grid: Z:\tmp\forest_of_goettingen\landsat_classification.dgm...okay
[2010-07-26/14:09:55] Load grid: Z:\tmp\forest_of_goettingen\landsat_band_08.dgm...okay
```

01. Places Settings:

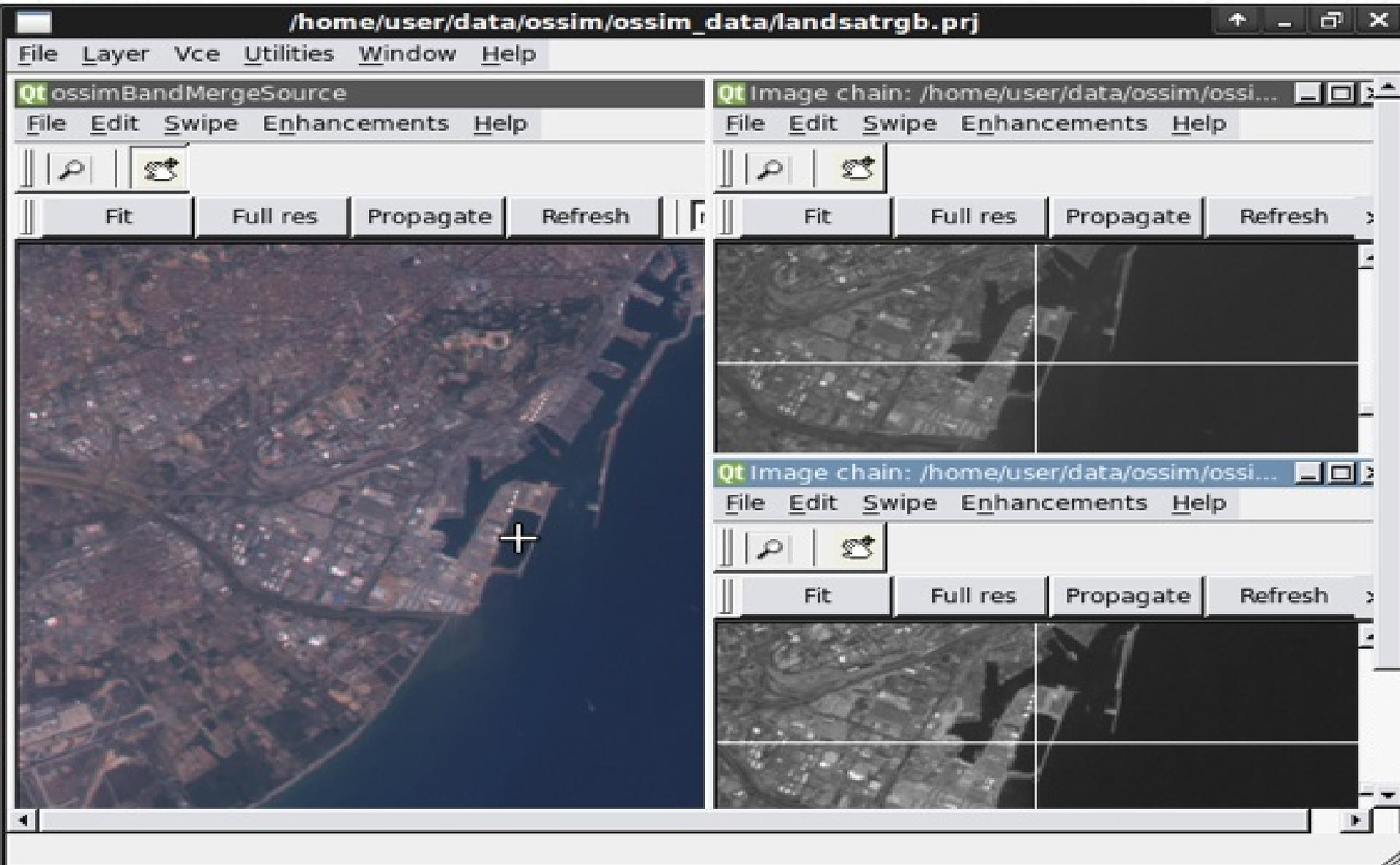
- Options
 - General
 - Name: Places
 - Show Legend:
 - Display
 - Chart: 13 parameters
 - Transparency [%]: 0
 - Fill Style: Opaque
 - Outline:
 - Outline Color: Black
 - Outline Size: 0
 - Symbol Type: circle
 - Symbol Image:
 - Display: Visibility
 - Show Always:
 - Display: Color Classification
 - Scale Dependent: 0; 1000
 - Type: Unique Symbol
 - Attribute: ID
 - Unique Symbol
 - Color: Red
 - Lookup Table
 - Table: Table (columns: 5, r...
 - Graduated Color
 - Colors: 10 colors
 - Value Range: 0; 0
 - Mode: Linear
 - Logarithmic Str: 1
 - Display: Label
 - Attribute: ID

Buttons: Apply, Restore, Load, Save, Settings, Description, Leger

Status bar: 01. Places X563337.026432 Y5703828.290749 Z



OSSIM - Image Processing





osgEarth - 3 Dimension Terrain Rendering





Geopublisher – Atlas creation



The screenshot displays the Geopublisher software interface for creating an atlas. The main window is titled "Geopublisher - Atlas 'Digitaler IMPETUS Atlas 2.0'".

File Atlas Options:

- File: Edit, Copy, Paste, Undo, Redo, Print, Save, Exit
- Options: Show/Hide, Zoom, Pan, Rotate, etc.

Datapool (Layers, PDFs, Videos, ...):

OM	Typ	Titel (de)	CPS	Größe
82%	Shape + Index	Oberes Drâa-Einzu...	Lambert...	0,1Mb
77%	Raster Geo TIFF	Oasenkarte Ouled Y...	unnamed	3,0Mb
82%	Shape + Index	Oasen im Drâa-Ein...	Lambert...	<0,1Mb
87%	Shape + Index	Nutzungsverbot für ...	WGS_19...	<0,1Mb
75%	Shape + Index	Niederschlagsmei...	WGS_19...	0,6Mb
92%	Raster Arc/ASC	Niederschlag in Benin	WGS 84	3,8Mb
92%	Raster Geo TIFF	Niederschlag im Drâ...	unnamed	<0,1Mb
77%	Raster Arc/ASC	Negativer Vegetati...	UTM Zo...	<0,1Mb
77%	Raster Arc/ASC	Naturräumliche Eins...	UTM Zo...	0,7Mb
75%	Shape + Index	Nationalparks in Benin	WGS_19...	<0,1Mb
82%	Shape + Index	Mittleres Drâa-Einz...	Lambert...	0,1Mb
75%	Shape + Index	Meßstationen (Abflu...	WGS_19...	<0,1Mb
75%	Shape + Index	Meßstationen (Abflu...	WGS_19...	<0,1Mb

Thematische Karten:

OM	Titel (de)	CPS	Größe
74%	Digrales Gel	Lambert_IMPETU	25,8Mb
74%	Digrales Höh	WGS_1984_UTM	9,2Mb
77%	Elektrische L	Lambert_IMPETU	3,2Mb
76%	Ethnizität in	WGS_1984_UTM	5,2Mb
73%	Geologische	WGS_1984_UTM	6,8Mb
73%	Hydrogeologi	Lambert_IMPETU	22,3Mb
74%	Hydrologie i	Lambert_IMPETU	7,6Mb
74%	Landegentu	WGS_1984_UTM	4,0Mb
77%	Landnutzung	WGS_1984_UTM	17,0Mb
72%	Landschafts	Lambert_IMPETU	5,2Mb
74%	Landwirtscha	Lambert_IMPETU	0,5Mb
65%	Marokko Pro	[unnamed]	7,6Mb
78%	Niederschlag	Lambert_IMPETU	4,0Mb
75%	Niederschlag	WGS_1984_UTM	8,5Mb
74%	Nutzungsbes	WGS_1984_UTM	3,9Mb

Menüstruktur:

- IMPETUS Atlas
 - Marokko
 - Naturräumliche Karten
 - Thematische Kartenlayer
 - Regionale Bodenpreise in Benin

Map Composer: Administrative Karte von Benin. The map shows Benin with various administrative boundaries and labels for cities like Niamey, Porto Novo, and Cotonou. A legend on the left indicates different types of boundaries and parks.



AtlasStyler – Desktop Style Editor



Deskriptive Statistik

Anzahl:	62,000
Minimum:	460,000
Maximum:	25366,000
Summe:	583945,0...
arithm. Mi...:	9418,468
Median:	8038,500
Standard ...:	6440,410

Klassengrenzen:

#	Klassengrenzen:
0	0,000
1	5000,000
2	10000,000
3	15000,000
4	20000,000
5	25366,000





MapWindow – for Windows



LISAsoft™

The screenshot displays the MapWindow GIS application window. The title bar reads "MapWindow GIS - 64Bit - Tiles*". The menu bar includes "Project", "Tiles", "Layer", "View", "Bookmarks", "Plug-ins", and "Help". The toolbar contains icons for "New", "Open", "Save", "Print", "Settings", "Add", "Remove", "Clear", "Symbology", "Categories", "Query", "Properties", and "Table". Below the toolbar is a "Legend" panel with a "Layers" section containing "The Netherlands" (checked), "Snelwegen.WGS 84 - Pseudo-Mercator" (checked), "Hoofdwegen.WGS 84 - Pseudo-Mercator" (checked), and "Provincies" (checked). The "Provincies" section lists 12 categories with corresponding color swatches: Drenthe (red), Flevoland (orange), Fryslân (yellow), Gelderland (light orange), Groningen (light yellow), Limburg (pale yellow), Noord-Brabant (light green), Noord-Holland (light blue), Overijssel (medium blue), Utrecht (dark blue), Zeeland (light blue), and Zuid-Holland (medium blue). A "Preview Map" section at the bottom left shows a smaller version of the map. The main map area displays a detailed road network with labels such as A1, A2, A3, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100, C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93, D94, D95, D96, D97, D98, D99, D100, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F20, F21, F22, F23, F24, F25, F26, F27, F28, F29, F30, F31, F32, F33, F34, F35, F36, F37, F38, F39, F40, F41, F42, F43, F44, F45, F46, F47, F48, F49, F50, F51, F52, F53, F54, F55, F56, F57, F58, F59, F60, F61, F62, F63, F64, F65, F66, F67, F68, F69, F70, F71, F72, F73, F74, F75, F76, F77, F78, F79, F80, F81, F82, F83, F84, F85, F86, F87, F88, F89, F90, F91, F92, F93, F94, F95, F96, F97, F98, F99, F100, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, G21, G22, G23, G24, G25, G26, G27, G28, G29, G30, G31, G32, G33, G34, G35, G36, G37, G38, G39, G40, G41, G42, G43, G44, G45, G46, G47, G48, G49, G50, G51, G52, G53, G54, G55, G56, G57, G58, G59, G60, G61, G62, G63, G64, G65, G66, G67, G68, G69, G70, G71, G72, G73, G74, G75, G76, G77, G78, G79, G80, G81, G82, G83, G84, G85, G86, G87, G88, G89, G90, G91, G92, G93, G94, G95, G96, G97, G98, G99, G100, H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, H16, H17, H18, H19, H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H34, H35, H36, H37, H38, H39, H40, H41, H42, H43, H44, H45, H46, H47, H48, H49, H50, H51, H52, H53, H54, H55, H56, H57, H58, H59, H60, H61, H62, H63, H64, H65, H66, H67, H68, H69, H70, H71, H72, H73, H74, H75, H76, H77, H78, H79, H80, H81, H82, H83, H84, H85, H86, H87, H88, H89, H90, H91, H92, H93, H94, H95, H96, H97, H98, H99, H100, I1, I2, I3, I4, I5, I6, I7, I8, I9, I10, I11, I12, I13, I14, I15, I16, I17, I18, I19, I20, I21, I22, I23, I24, I25, I26, I27, I28, I29, I30, I31, I32, I33, I34, I35, I36, I37, I38, I39, I40, I41, I42, I43, I44, I45, I46, I47, I48, I49, I50, I51, I52, I53, I54, I55, I56, I57, I58, I59, I60, I61, I62, I63, I64, I65, I66, I67, I68, I69, I70, I71, I72, I73, I74, I75, I76, I77, I78, I79, I80, I81, I82, I83, I84, I85, I86, I87, I88, I89, I90, I91, I92, I93, I94, I95, I96, I97, I98, I99, I100, J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J32, J33, J34, J35, J36, J37, J38, J39, J40, J41, J42, J43, J44, J45, J46, J47, J48, J49, J50, J51, J52, J53, J54, J55, J56, J57, J58, J59, J60, J61, J62, J63, J64, J65, J66, J67, J68, J69, J70, J71, J72, J73, J74, J75, J76, J77, J78, J79, J80, J81, J82, J83, J84, J85, J86, J87, J88, J89, J90, J91, J92, J93, J94, J95, J96, J97, J98, J99, J100, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, K26, K27, K28, K29, K30, K31, K32, K33, K34, K35, K36, K37, K38, K39, K40, K41, K42, K43, K44, K45, K46, K47, K48, K49, K50, K51, K52, K53, K54, K55, K56, K57, K58, K59, K60, K61, K62, K63, K64, K65, K66, K67, K68, K69, K70, K71, K72, K73, K74, K75, K76, K77, K78, K79, K80, K81, K82, K83, K84, K85, K86, K87, K88, K89, K90, K91, K92, K93, K94, K95, K96, K97, K98, K99, K100, L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100, M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57, M58, M59, M60, M61, M62, M63, M64, M65, M66, M67, M68, M69, M70, M71, M72, M73, M74, M75, M76, M77, M78, M79, M80, M81, M82, M83, M84, M85, M86, M87, M88, M89, M90, M91, M92, M93, M94, M95, M96, M97, M98, M99, M100, N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14, N15, N16, N17, N18, N19, N20, N21, N22, N23, N24, N25, N26, N27, N28, N29, N30, N31, N32, N33, N34, N35, N36, N37, N38, N39, N40, N41, N42, N43, N44, N45, N46, N47, N48, N49, N50, N51, N52, N53, N54, N55, N56, N57, N58, N59, N60, N61, N62, N63, N64, N65, N66, N67, N68, N69, N70, N71, N72, N73, N74, N75, N76, N77, N78, N79, N80, N81, N82, N83, N84, N85, N86, N87, N88, N89, N90, N91, N92, N93, N94, N95, N96, N97, N98, N99, N100, O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11, O12, O13, O14, O15, O16, O17, O18, O19, O20, O21, O22, O23, O24, O25, O26, O27, O28, O29, O30, O31, O32, O33, O34, O35, O36, O37, O38, O39, O40, O41, O42, O43, O44, O45, O46, O47, O48, O49, O50, O51, O52, O53, O54, O55, O56, O57, O58, O59, O60, O61, O62, O63, O64, O65, O66, O67, O68, O69, O70, O71, O72, O73, O74, O75, O76, O77, O78, O79, O80, O81, O82, O83, O84, O85, O86, O87, O88, O89, O90, O91, O92, O93, O94, O95, O96, O97, O98, O99, O100, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100, T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T68, T69, T70, T71, T72, T73, T74, T75, T76, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94, T95, T96, T97, T98, T99, T100, U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U34, U35, U36, U37, U38, U39, U40, U41, U42, U43, U44, U45, U46, U47, U48, U49, U50, U51, U52, U53, U54, U55, U56, U57, U58, U59, U60, U61, U62, U63, U64, U65, U66, U67, U68, U69, U70, U71, U72, U73, U74, U75, U76, U77, U78, U79, U80, U81, U82, U83, U84, U85, U86, U87, U88, U89, U90, U91, U92, U93, U94, U95, U96, U97, U98, U99, U100, V1, V2, V3, V4, V5, V6, V7, V8, V9, V10, V11, V12, V13, V14, V15, V16, V17, V18, V19, V20, V21, V22, V23, V24, V25, V26, V27, V28, V29, V30, V31, V32, V33, V34, V35, V36, V37, V38, V39, V40, V41, V42, V43, V44, V45, V46, V47, V48, V49, V50, V51, V52, V53, V54, V55, V56, V57, V58, V59, V60, V61, V62, V63, V64, V65, V66, V67, V68, V69, V70, V71, V72, V73, V74, V75, V76, V77, V78, V79, V80, V81, V82, V83, V84, V85, V86, V87, V88, V89, V90, V91, V92, V93, V94, V95, V96, V97, V98, V99, V100, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90, W91, W92, W93, W94, W95, W96, W97, W98, W99, W100, X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100, Y1, Y2, Y3, Y4, Y5, Y6, Y7, Y8, Y9, Y10, Y11, Y12, Y13, Y14, Y15, Y16, Y17, Y18, Y19, Y20, Y21, Y22, Y23, Y24, Y25, Y26, Y27, Y28, Y29, Y30, Y31, Y32, Y33, Y34, Y35, Y36, Y37, Y38, Y39, Y40, Y41, Y42, Y43, Y44, Y45, Y46, Y47, Y48, Y49, Y50, Y51, Y52, Y53, Y54, Y55, Y56, Y57, Y58, Y59, Y60, Y61, Y62, Y63, Y64, Y65, Y66, Y67, Y68, Y69, Y70, Y71, Y72, Y73, Y74, Y75, Y76, Y77, Y78, Y79, Y80, Y81, Y82, Y83, Y84, Y85, Y86, Y87, Y88, Y89, Y90, Y91, Y92, Y93, Y94, Y95, Y96, Y97, Y98, Y99, Y100, Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17, Z18, Z19, Z20, Z21, Z22, Z23, Z24, Z25, Z26, Z27, Z28, Z29, Z30, Z31, Z32, Z33, Z34, Z35, Z36, Z37, Z38, Z39, Z40, Z41, Z42, Z43, Z44, Z45, Z46, Z47, Z48, Z49, Z50, Z51, Z52, Z53, Z54, Z55, Z56, Z57, Z58, Z59, Z60, Z61, Z62, Z63, Z64, Z65, Z66, Z67, Z68, Z69, Z70, Z71, Z72, Z73, Z74, Z75, Z76, Z77, Z78, Z79, Z80, Z81, Z82, Z83, Z84, Z85, Z86, Z87, Z88, Z89, Z90, Z91, Z92, Z93, Z94, Z95, Z96, Z97, Z98, Z99, Z100.

MapWindow GIS - 64Bit - Tiles*
Project Tiles Layer View Bookmarks Plug-ins Help
New Open Save Print Settings Add Remove Clear Symbology Categories Query Properties Table
Select Deselect Measure Identify Label Mover Update
Legend
Layers Toolbox
The Netherlands
Snelwegen.WGS 84 - Pseudo-Mercator
Hoofdwegen.WGS 84 - Pseudo-Mercator
Provincies
Categories
Drenthe
Flevoland
Fryslân
Gelderland
Groningen
Limburg
Noord-Brabant
Noord-Holland
Overijssel
Utrecht
Zeeland
Zuid-Holland
Tiles
Preview Map
WGS 84 / Pseudo-Mercator X: 804.887,714 Y: 7.134.981,190 Meters Lat: 53,814 Long: 7,230 1:3156173

Spatial Tools

GMT



R



ORFEO Toolbox



Mapnik



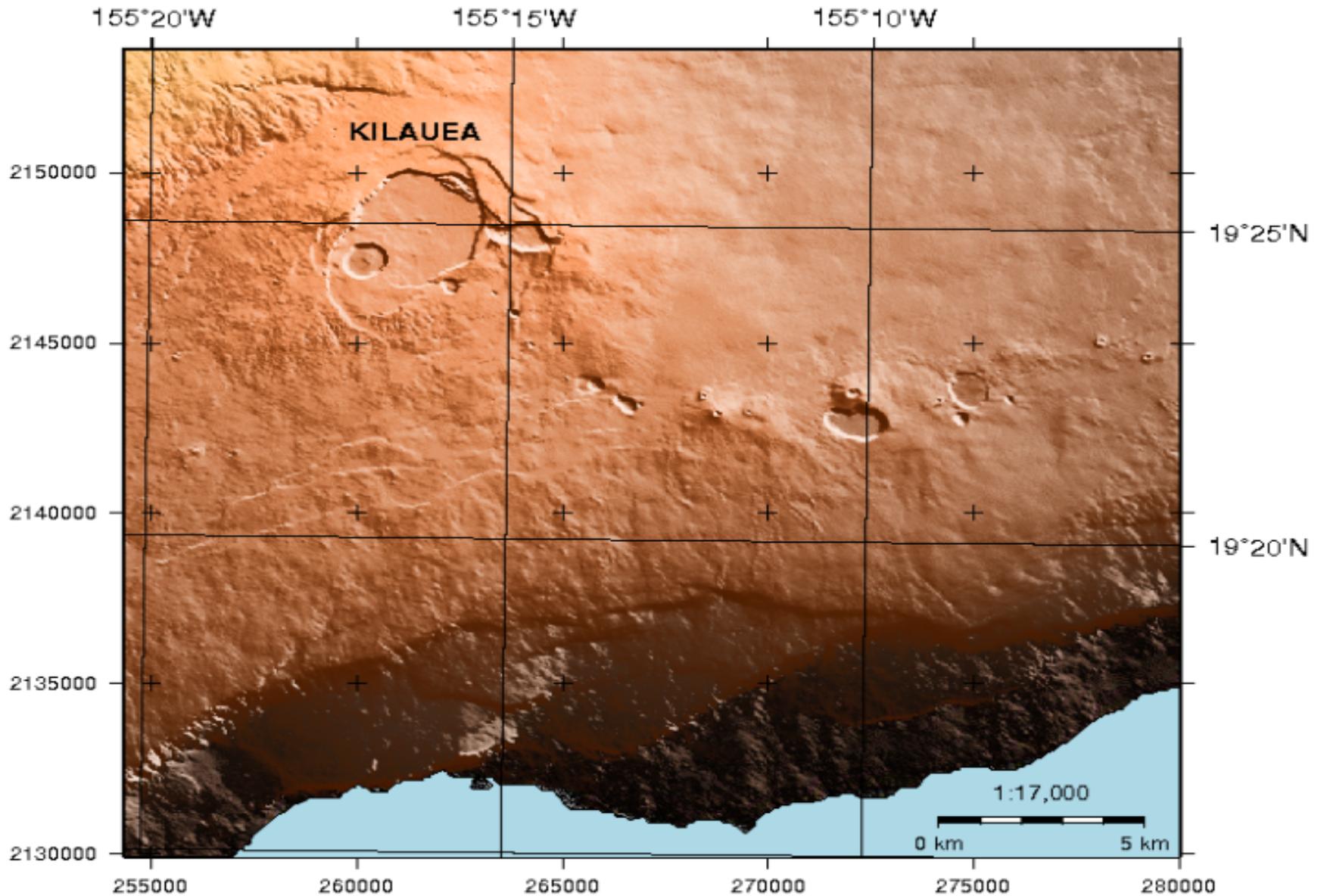
GeoKettle



Spatial Tools



GMT – Generic Mapping Tools





ORFEO Toolbox: Image Processing



Standard Image Viewer

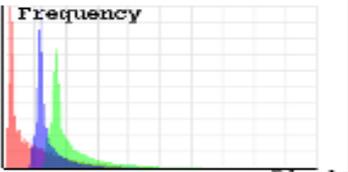
Navigation View



Zoom View



Histograms



Pixel Information

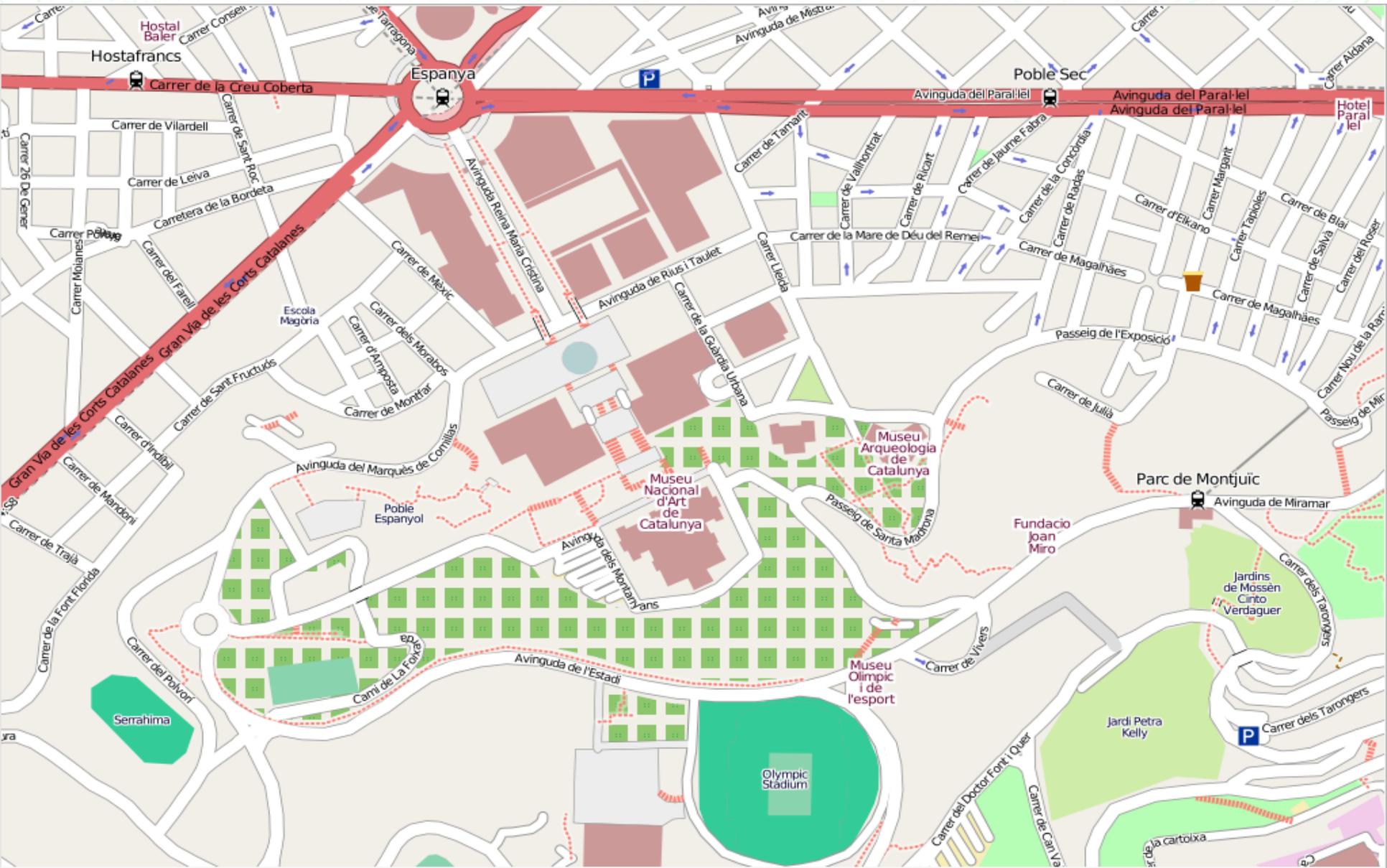
Index: [3701, 2845]
Layer: Image
c= 0, B= 2 , v= 299
c= 1, G= 3 , v= 392
c= 2, R= 21, v= 204
c= 3, v= 548
Layer: OSM
RGBA value: 255, 255, 255 alpha: 0
displayed: 255, 255, 255 alpha: 0

Full Resolution View





Mapnik – Cartographic Rendering



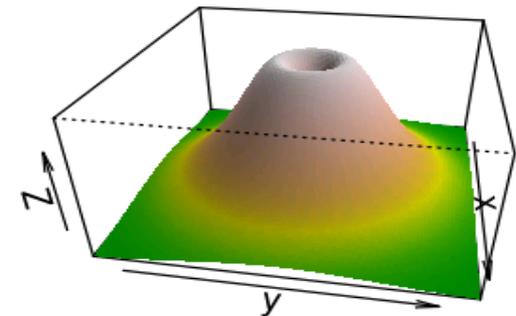


R – Statistical Programming



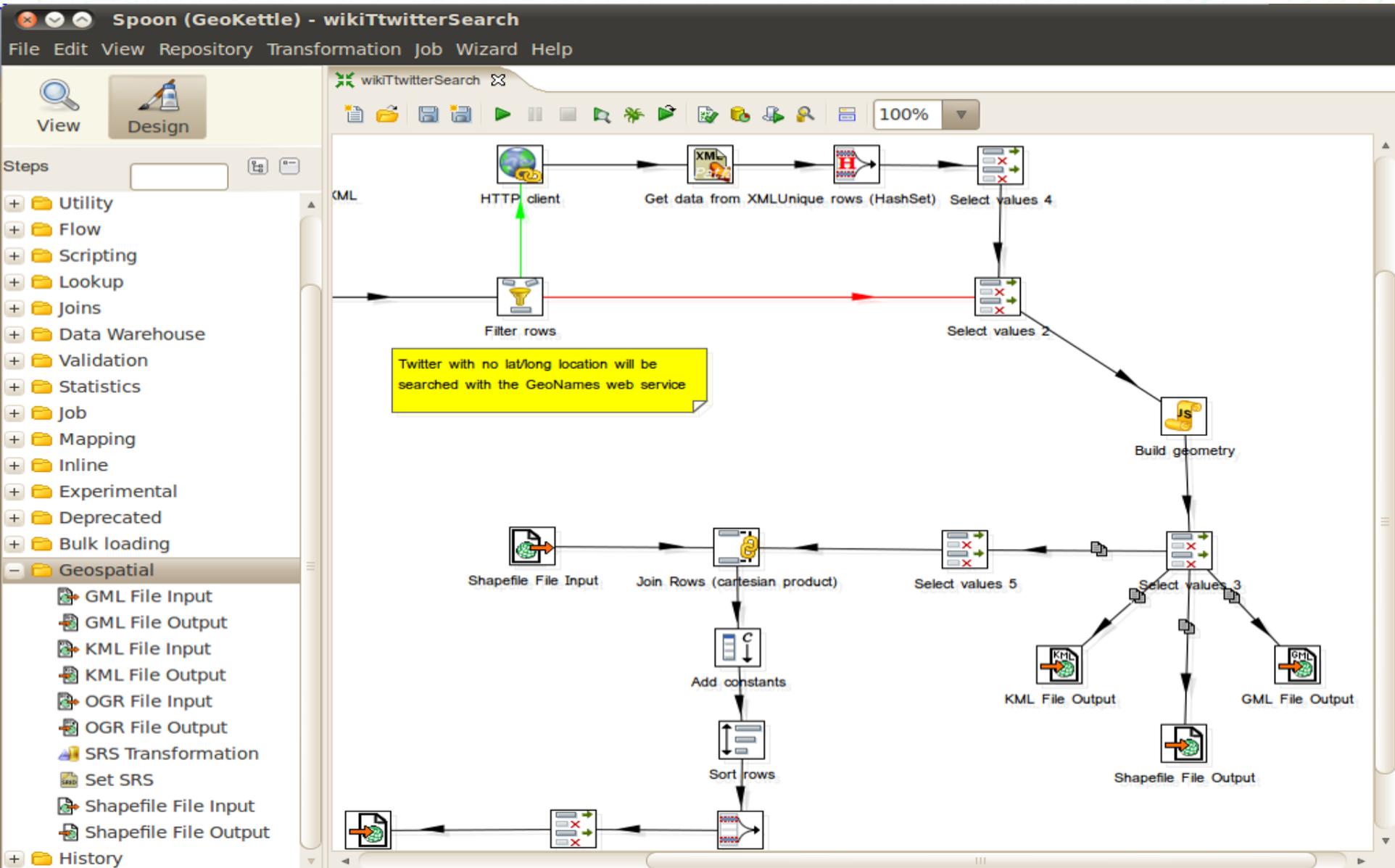
```
Applications Places 22:33
Terminal - user@osgeolive: ~
File Edit View Terminal Go Help
> plot(longleaf, markscale=0.09, main="markscale=0.09")
  0  20  40  60  80
0.0 1.8 3.6 5.4 7.2
> par(opa)
> Z <- as.im(function(x,y) { r <- sqrt(x^2+y^2); r * exp(-r) },
+           owin(c(-5,5),c(-5,5)))
> plot(Z, main="pixel image: image plot")
Hit <Return> to see next plot:
> plot(Z, main="pixel image: image plot (heat colours)", col=heat.colors(256))
Hit <Return> to see next plot:
> contour(Z, main="pixel image: contour plot", axes=FALSE)
Hit <Return> to see next plot:
> plot(Z, main="pixel image: image + contour plot")
Hit <Return> to see next plot:
> contour(Z, add=TRUE)
> persp(Z, colmap=terrain.colors(128), shade=0.3, phi=30, theta=100,
+       main="pixel image: perspective plot")
Hit <Return> to see next plot:
> ct <- colourmap(rainbow(20), breaks=seq(-1,1,length=21))
> plot(ct, main="Colour map for real numbers")
Hit <Return> to see next plot: █
```

pixel image: perspective plot





GeoKettle – Extract Transform Load (ETL)



Navigation & Maps

Marble



Prune



GpsDrive



OpenCPN



Viking



zyGrib



Navigation & Maps



Marble – Spinning Globe



LISAsoft

Historical Map 1689 - Marble Desktop Globe



File Edit View Settings Help

Navigation

Legend



Populated Places

 Town

Terrain

 Mountain

Surface

 River

 Lake

Places of Interest

 Geographic Pole

Accurate Coastline

Coordinate Grid

Learn more about this map at our [Marble Website](#).



Map View



Position: not available

Altitude: 5.895,6 km

Tile Zoom Level: 1



Prune – GPS Track Editing



Prune

File Track Range Point View Photo Settings Help

Track details
Points: 496
File: barcelona.gpx

Waypoints
La Rambla, Barcelona
Palau Güell
Museu Picasso
Arc de Triomf
Plaça de Catalunya, B
Casa Milà
Sagrada Família
Teatre Nacional de Ca
Palau de la Música Ca
Torre Jaume I
Cathedral of Santa Eu

Photos

Point details
Index: 2 of 496
Latitude: 41.3789
Longitude: 2.1739
Altitude: 22 m
Name: Palau Güell

Range details
No range selected

Photo details
No photo selected

Altitude (m)

Coordinate format:
Original
Distance units:
Kilometres



GpsDrive – GPS Navigation



GpsDrive v2.12.svn

Options

Map Control

Zoom out

Zoom in

Scale out

Scale in

Explore Mode

Find POI

Add Waypoint

Clear Track

2 km

Turn	R 064°	Distance	1.17 km	Map Scale	1:41388
GPS-Time	n/a	Bearing	65°	Course	0°
Latitude	N 39° 43.950'	Longitude	E 2° 45.862'	Map scale	1:41388
Pref. scale	1:200000	No GPS			

Map found!



OpenCPN – Marine GPS Navigation



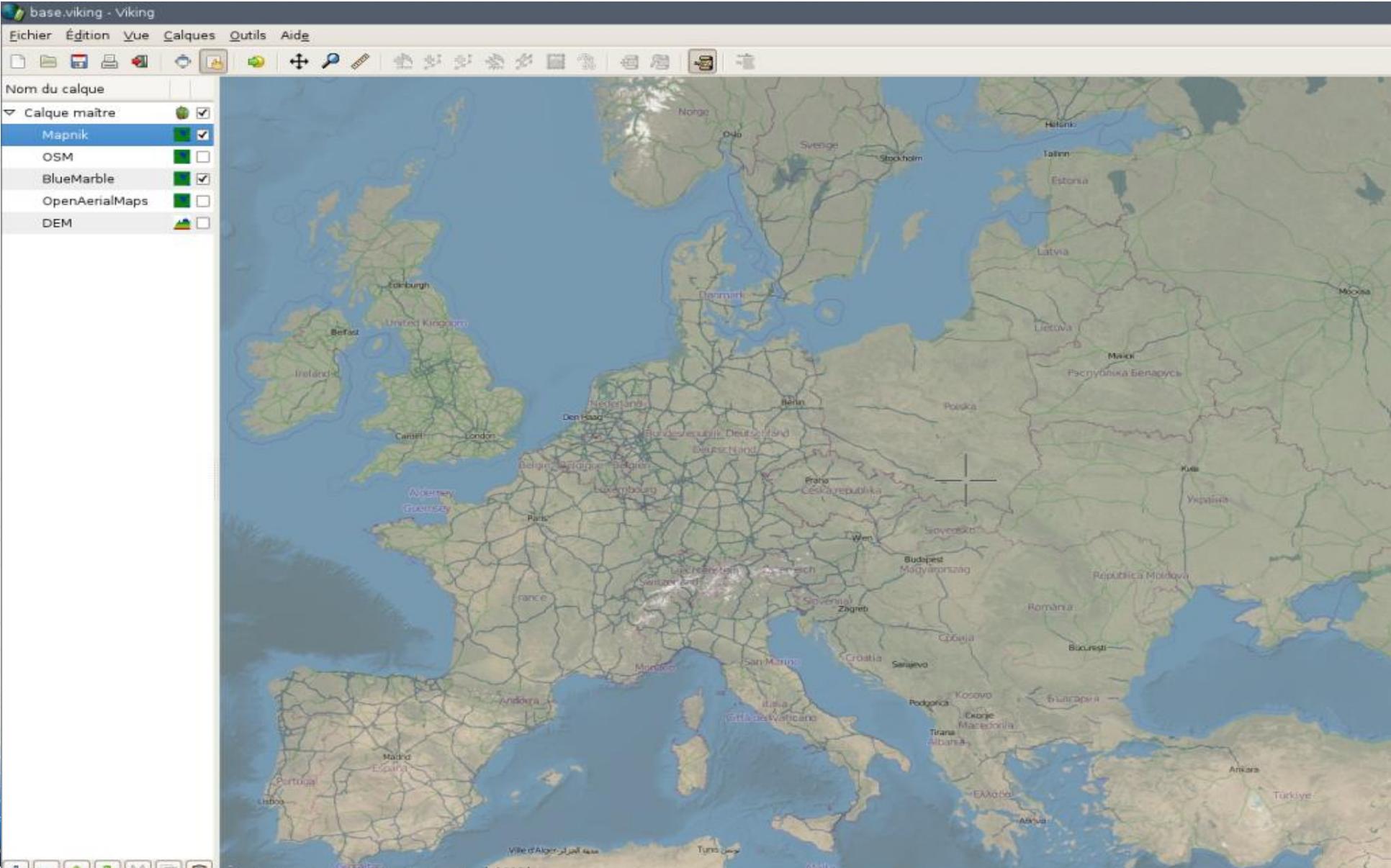
OpenCPN

Max Detail Here
Scale In
Scale Out
Drop Mark Here
Move Boat Here
Go To Here
Measure.....
Route Manager...
AIS target list

SOG: ----- kts COG: ----- Deg
Cursor: 040 33.404 N 073 59.126 W
From Ownship: 070 Deg 1.96 NMI
TrueScale: 60200 Zoom 0.50x



Viking – GPS Navigation

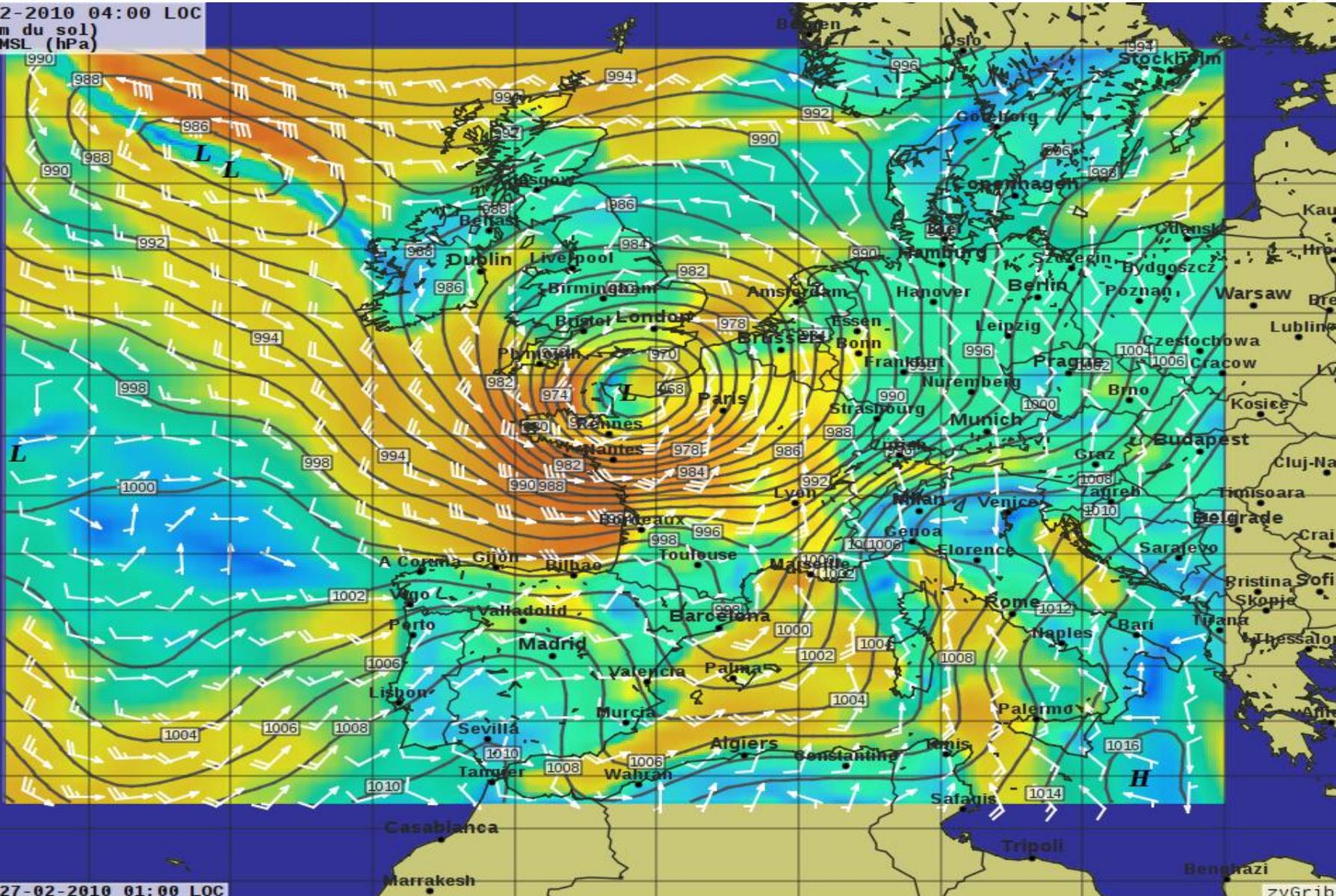




zygrib – Weather Forecasting



Dim 28-02-2010 04:00 LOC
Vent (10 m du sol)
Isobares MSL (hPa)



Ref: Sam 27-02-2010 01:00 LOC

zyGrib

Crisis Management

Sahana Agasti



Ushahidi



Crisis Management

<http://live.osgeo.org>



Sahana – Disaster Management



Sahana FOSS Disaster Management System - Firefox

File Edit View Go Bookmarks Tools Help dw-shortcuts dw-tools Gmail ApacheCon Reg. Ad...

around files in vim http://10.42.12.22/sa3-aug2212pm/www/index.php?mod=cr&act=gis_i

Sahana FOSS Disaster Manage... dev:ctags [My Wiki] Sahana FOSS Disaster Man... 10.42.12.22 / localhost / sahana...

Incident Pandemic

SAHANA

Disaster Management System

SHELTER REGISTRY

- Home
- Shelter Density
- Infection Spread
- Search
- Add Shelter
- Edit Shelter
- Reports

SAHANA MAIN

- Sahana Home
- Situation Map
- Catalogue System
- Disaster Victim Registry
- Organization Registry
- Inventory Management
- Reporting System
- Request/Aid Management
- Shelter Registry

Map of Shelters by Infected Population

Map Satellite Hybrid

Old Town Community Center
75% Infected
[View](#)



Ushahidi – Event Timeline & Maps



Democratic Republic of Congo - Iceweasel

File Edit View History Bookmarks Tools Help

http://drc.ushahidi.com/

SHARE English (US)

Democratic Republic of Congo
Tracking the Eastern Congo Conflict

SUBMIT AN INCIDENT

HOME REPORTS SUBMIT AN INCIDENT GET ALERTS CONTACT US HOW TO HELP ABOUT US

FILTERS → **REPORTS** NEWS PICTURES VIDEO ALL VIEWS → **CLUSTERS** TIME

+ CATEGORY FILTER

- ALL CATEGORIES
- RIOTS
- DEATHS
- PROPERTY LOSS
- SEXUAL ASSAULT
- INTERNALLY DISPLACED PEOPLE
- GOVERNMENT FORCES
- CIVILIANS
- LOOTING
- PEACE EFFORTS
- ARMED GROUPS
- VERIFIED SOURCES
- HUMANITARIAN ACTIONS
- KIDNAPPINGS
- DISEASE
- MONUC

HOW TO REPORT

- By sending a message to 243992592111
- By sending an email to drc@ushahidi.com
- By filling a form at the website

Incidents (from map above listed chronologically)

TITLE	LOCATION	DATE
Big fight	kinshasa	Jul 10 2009
Journal on the New Congo Peace Agreement	DRC	Feb 8 2009
Update on looting and sexual assault in...	Kayna	Dec 18 2008
Insectuřit bas le record à Butembo	Butembo	Dec 17 2008
DPs return to Kanyabonga area	Kanyabonga	Dec 16 2008

Official & mainstream news

TITLE	SOURCE	DATE
Federal Foreign Office provides humanitarian...	Relief Web	Jan 11 2010
Angola: Over 900 citizens expelled from...	Relief Web	Jan 11 2010
WHO Weekly Epidemiological Record 8 Jan...	Relief Web	Jan 11 2010
RDC/Lubumbashi: Kyungu appetite à l'écourt...	Relief Web	Jan 11 2010

From: Oct 2009 To: Dec 2009 PLAY

Map Data

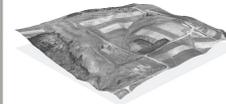
Natural Earth



Open Street Map



North Carolina



Map Data



Natural Earth – Map Data



Made with
Natural Earth

Free vector and raster map data @ naturalearthdata.com

Large scale data, 1:10m



Cultural Physical Raster

Medium scale data, 1:50m

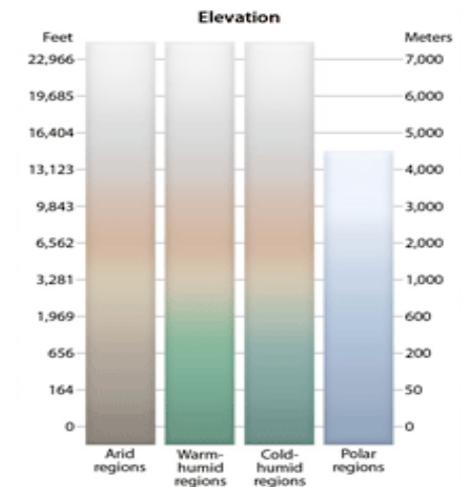


Cultural Physical Raster

Small scale data, 1:110m

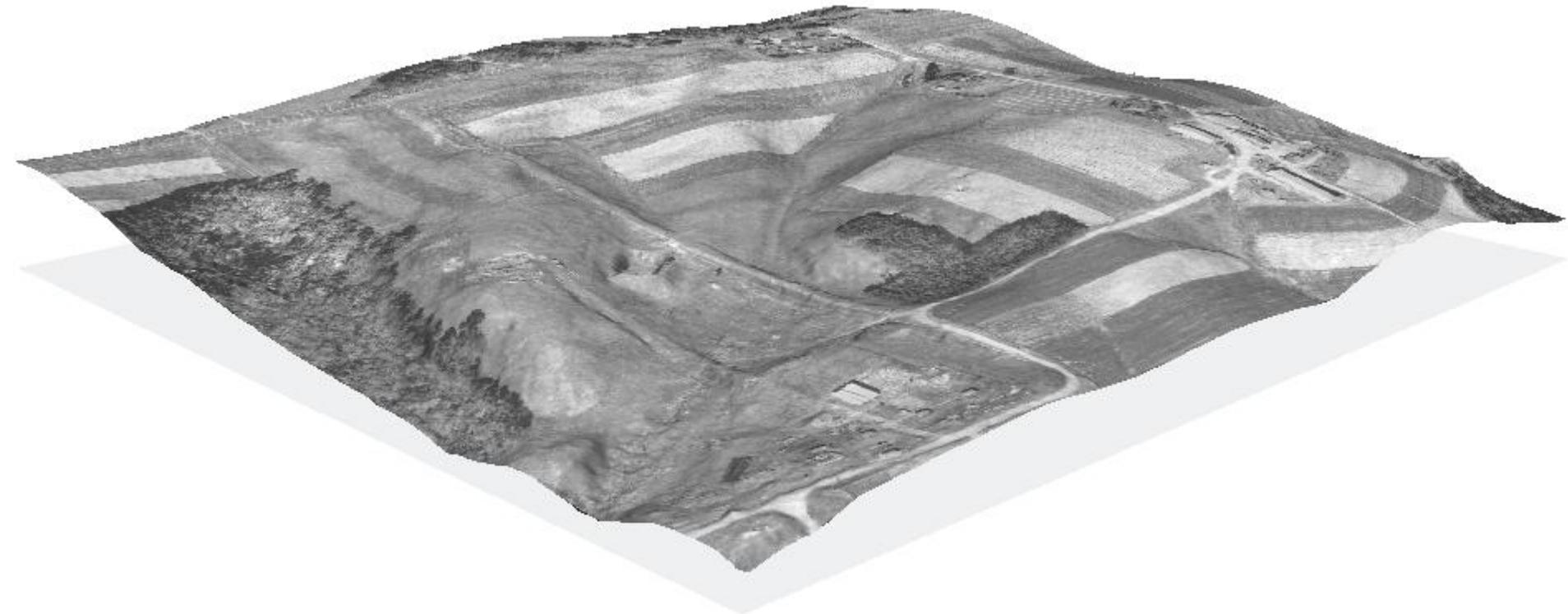


Cultural Physical





North Carolina educational dataset



<http://live.osgeo.org>

Geospatial Libraries

GDAL/OGR



GeoTools



MetaCRS

libLAS



Geospatial Libraries

<http://live.osgeo.org>



GDAL/OGR – Data Translation



GDAL/OGR and PROJ.4

<http://www.gdal.org>

<http://proj.osgeo.org>

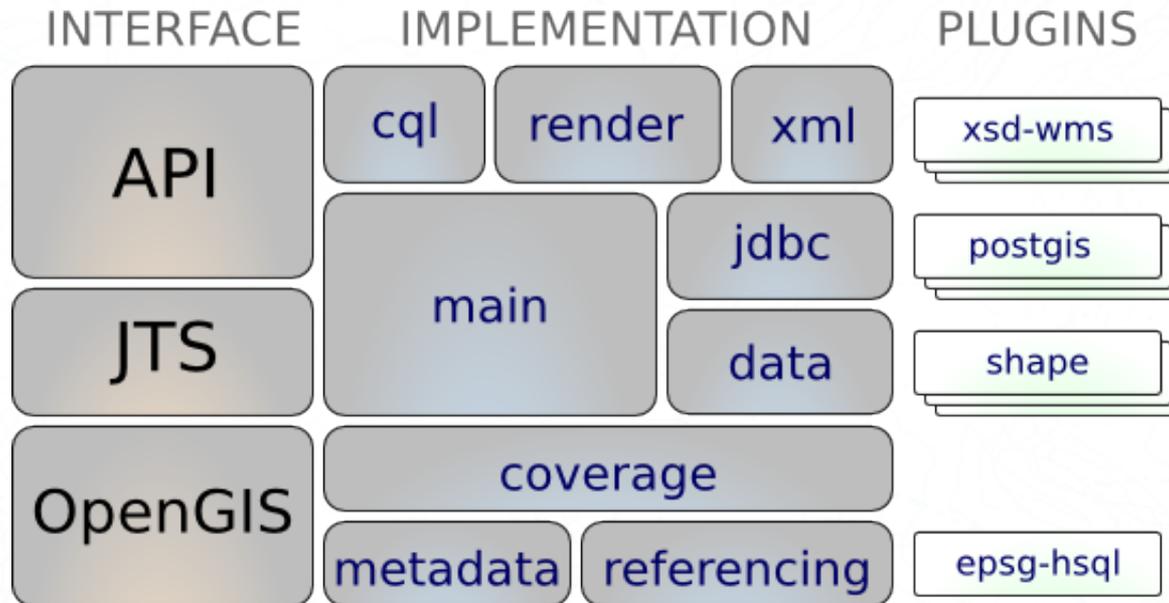


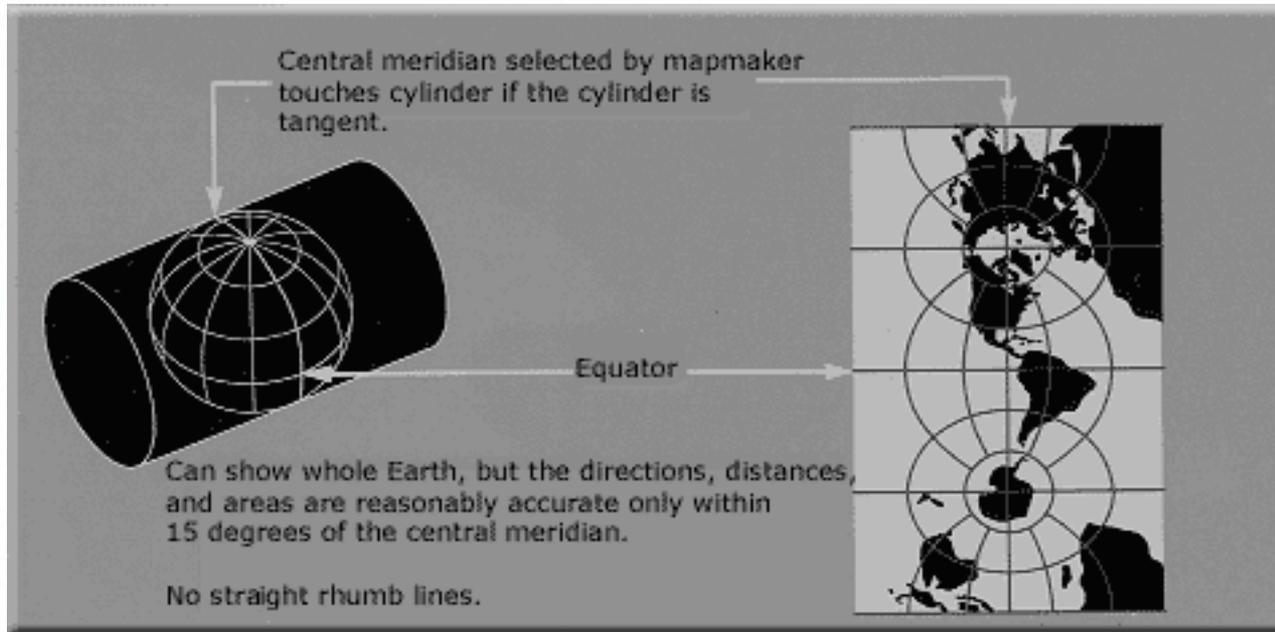
GDAL for Raster Data - The Geospatial Data Abstraction Library

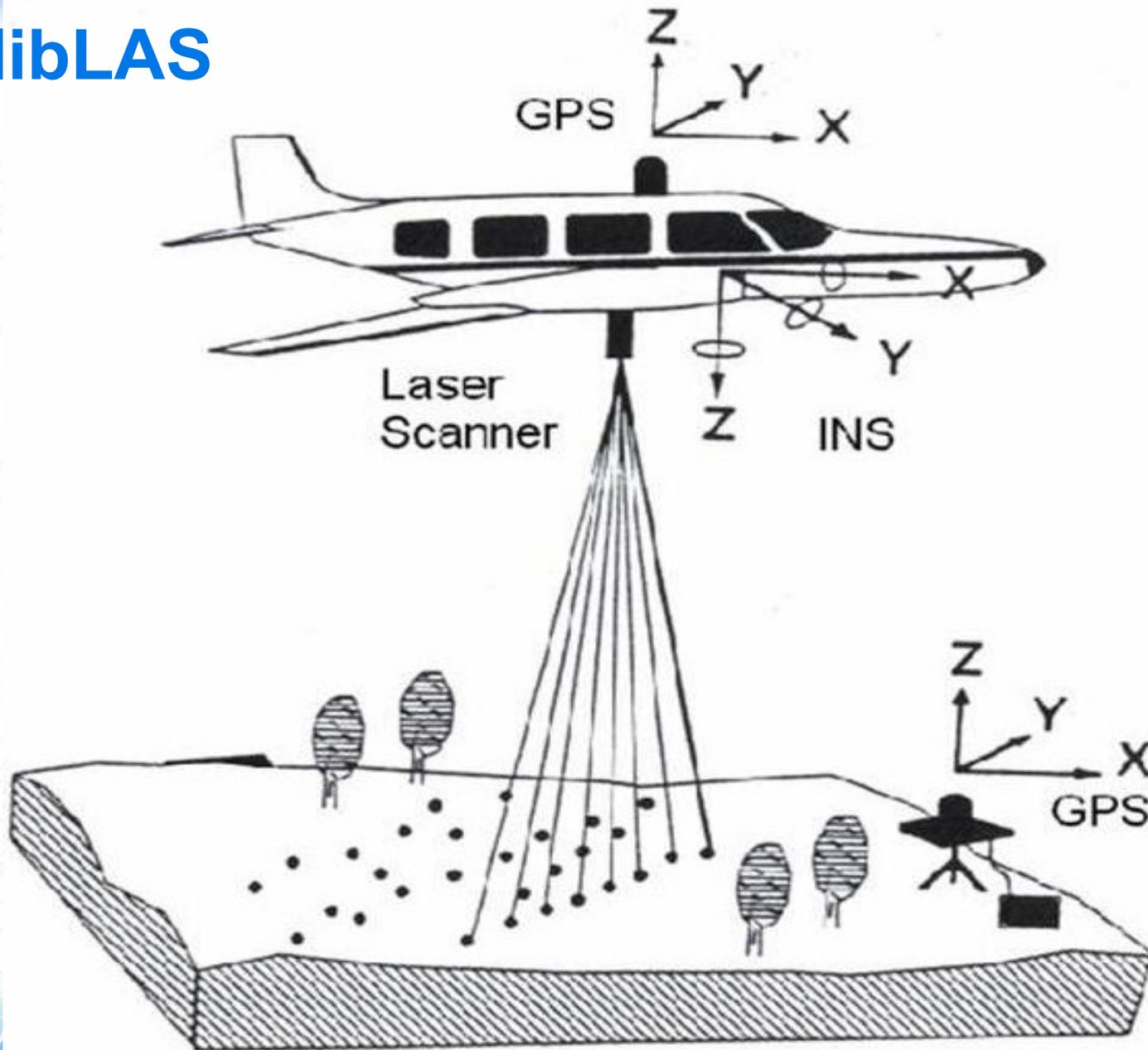
Arc/Info ASCII Grid, **Arc/Info** Binary Grid (.adf), AIRSAR Polarimetric, Microsoft Windows Device Independent Bitmap (.bmp), BSB Nautical Chart Format (.kap), VTP Binary Terrain Format (.bt), CEOS (Spot for instance), First Generation USGS DOQ (.doq), DODS / OPeNDAP, New Labelled USGS DOQ (.doq), Military Elevation Data (.dt0, .dt1), **ERMapper** Compressed Wavelets (.ecw), **ESRI** .hdr Labelled, ENVI .hdr Labelled Raster, Envisat Image Product (.n1), EOSAT FAST Format, FITS (.fits), Graphics Interchange Format (.gif), GMT Compatible netCDF, **GRASS Rasters**, Golden Software ASCII Grid, Golden Software Binary Grid, Golden Software **Surfer** 7 Binary Grid, TIFF / **GeoTIFF** (.tif), GXF - Grid eXchange File, Hierarchical Data Format Release 4 (**HDF4**), Hierarchical Data Format Release 5 (HDF5), **Erdas Imagine** (.img), Vexcel MFF2, **Idrisi** Raster, Image Display and Analysis (WinDisp), ILWIS Raster Map (.mpr, .mpl), Japanese DEM (.mem), **JPEG JFIF** (.jpg), **JPEG2000** (JPEG2000, JP2KAK, JP2ECW, JP2MrSID), NOAA Polar Orbiter Level 1b Data Set (**AVHRR**), Erdas 7.x .LAN and .GIS, Daylon Leveller Heightfield, In Memory Raster, Vexcel MFF, Multi-resolution Seamless Image Database, Meteosat Second Generation, NDF, NITF, **NetCDF**, OGDII Bridge, PCI .aux Labelled, PCI Geomatics Database File, Portable Network Graphics (.png), PCRaster (.map), Netpbm (.ppm, .pgm), Swedish Grid RIK (.rik), RadarSat2 XML (product.xml), **ArcSDE** Raster, USGS SDTS DEM (*CATD.DDF), Raster Matrix Format (*.rsw, .mtw), SAR CEOS, **SGI** Image Format, USGS ASCII DEM (.dem), OGC Web Coverage Server, X11 Pixmap (.xpm)

OGR for Vector Data - Simple Feature Library

Arc/Info Binary Coverage, Comma Separated Value (.csv), DODS/OPeNDAP, DWG, **DXF**, ESRI Personal GeoDatabase, ESRI ArcSDE, **ESRI Shapefile**, FMEObjects Gateway, GML, **GMT Mapping**, **GRASS Vectors**, INTERLIS, **Google Earth KML**, Mapinfo File, Microstation DGN, Spatial **MySQL**, OGDII Vectors, ODBC generic database access layer, **Oracle** Spatial, PostgreSQL **PostGIS**, S-57 (ENC), SDTS, SQLite, UK .NTF, U.S. Census TIGER/Line, VRT - Virtual Datasource, Informix DataBlade









Credits



Activity Workshop

Agustín Díez

Aikaterini Kapsampeli

Alan Boudreault

Alexandre Dube

Alex Mandel

Andrea Antonello

Andrea Yanza

Angelos Tzotsos

Anne Ghisla

Anton Patrushev

Argyros Argyridis

Astrid Emde

Brian Hamlin

Bruno Binet

Cameron Shorter

Christos Iossifidis

Dane Springmeyer

Daniel Kastl

David Terrativa

Diego González

Dominik Helle

Eike Hinderk Jürrens

Eric Lemoine

Etienne Dube

Fran Boon

François Prunayre

Frank Gasdorf

Gavin Treadgold

Gérald Fenoy

Hamish Bowman

Haruyuki Seki

Henry Addo

Hernan Olivera

Howard Butler

Ian Turton

Jackie Ng

Jan Drewnak

Javier Sanchez

Jesús Gómez

Jim Klassen

Jody Garnett

Johan Van de Wauw

Jorge Sanz

José Antonio Canalejo

Judit Mays

Klokan Petr Pridal

Kristof Lange

Lance McKee

Lars Lingner

Lucía Sanjaime

Mage Whopper

Manuel Grizonnet

Marco Puppin

Mark Leslie

Massimo Di Stefano

Mauricio Miranda

Mauricio Pazos

Michael Owonibi

Mike Adair

Milena Nowotarska

Nathaniel V. Kelso

Ned Horning

Nobusuke Iwasaki

Oliver Tonnhofer

Òscar Fonts

Otto Dassau

Pedro-Juan Ferrer

Pirmin Kalberer

Ricardo Pinho

Ruth Schoenbuchner

Samuel Mesa

Sergio Baños

Simon Cropper

Simon Pigot

Stefan A. Tzeggai

Stefan Hansen

Steve Lime

Thierry Badard

Thomas Baschetti

Trevor Wekel

Valenty Gonzalez

Yoichi Kayama



Information Center
for the
Environment,
University of
California,
Davis



Want to know more?



<http://live.osgeo.org>

OSGeo Foundation

<http://osgeo.org>

Conferences:

<http://foss4g.org>

Australia/New Zealand
support/training

<http://lisasoft.com>



FOSS4G 2010
Barcelona
Free and Open Source Software
for Geospatial CONFERENCE
SEP 6th-9th



<http://live.osgeo.org>