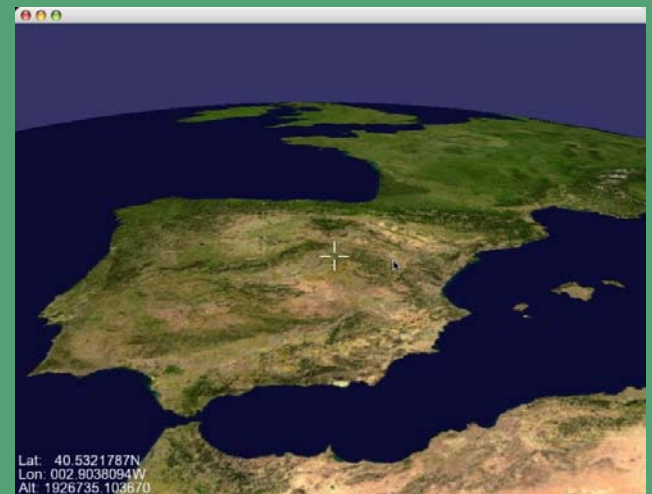
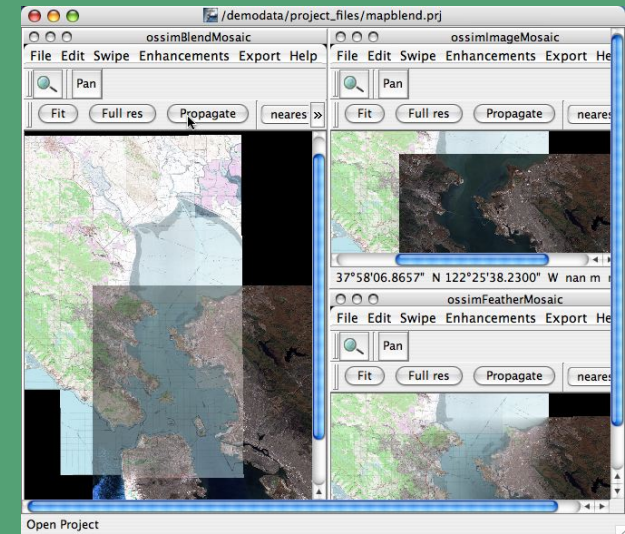


OSSIM Overview

Mark Lucas
OSSIM



“Awesome”



Open Source Software Image Map (OSSIM)

www.ossim.org



OSSIM

High Performance Geo-spatial Image Processing

Open Source Software Distribution

Laptops to Clusters - Mac OSX, Linux, Windows, Solaris

Sensor Models, RPC, Commercial and National Formats

Precision Terrain Correction / Orthos

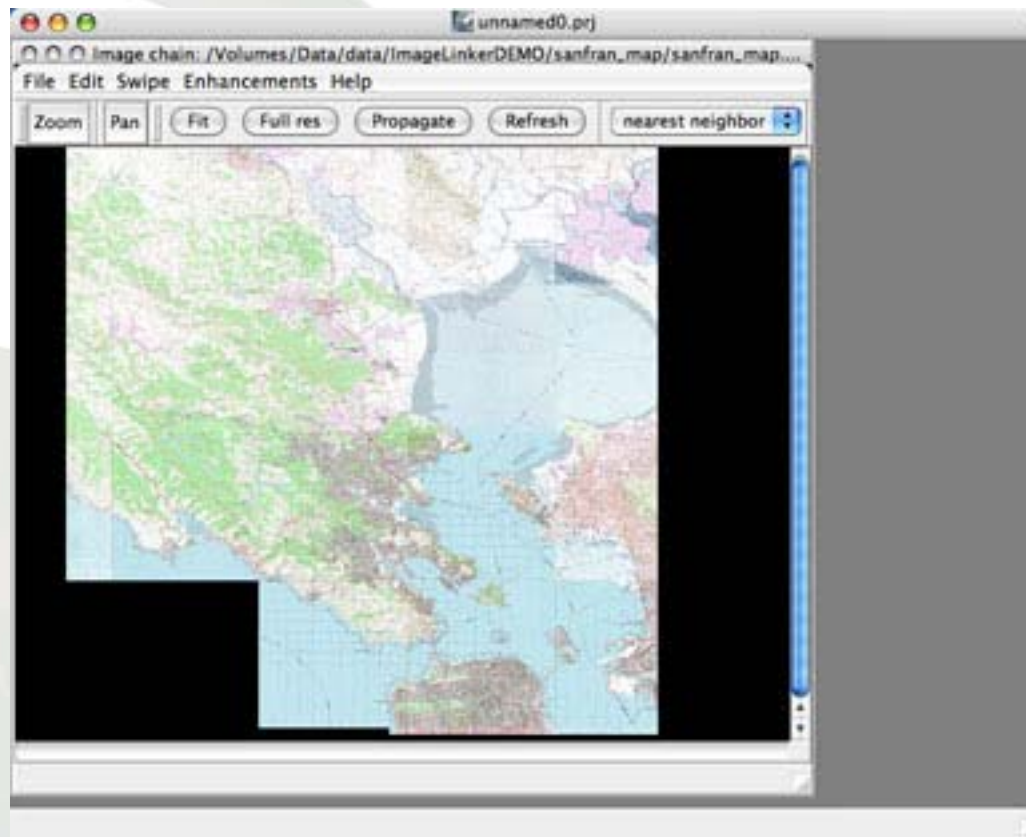
Production, Prototyping, Advanced Visualization

Used in Government and Commercial Applications

OGC Interfaces over the web

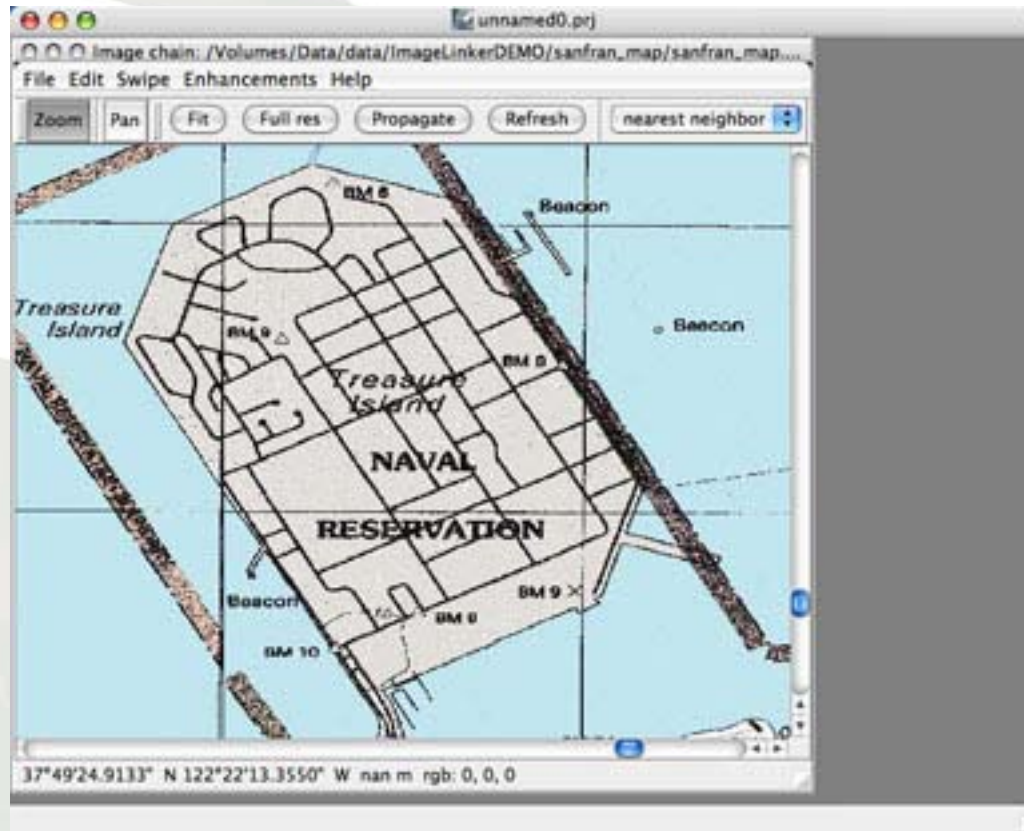
OSSIM

1.7 GB Raster GeoTiff of San Francisco



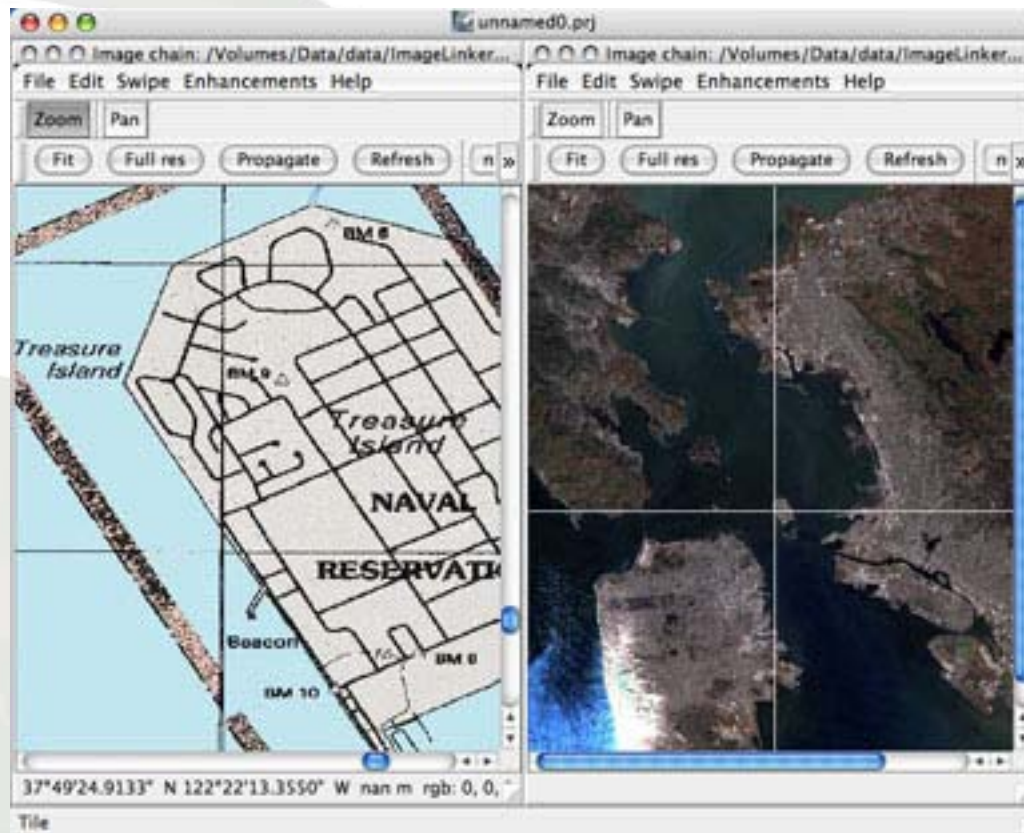
OSSIM

Arbitrary Panning and Zooming



OSSIM

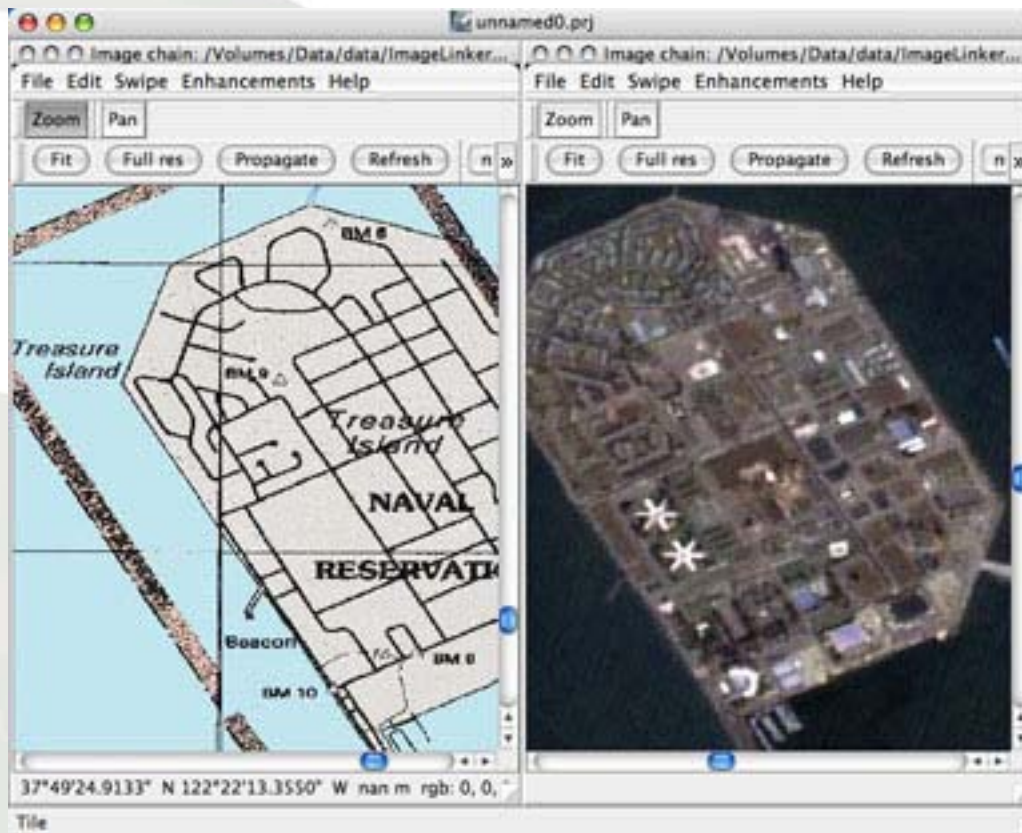
263 MB Landsat image



Different
Scale,
Format,
Mapping
Projections

OSSIM

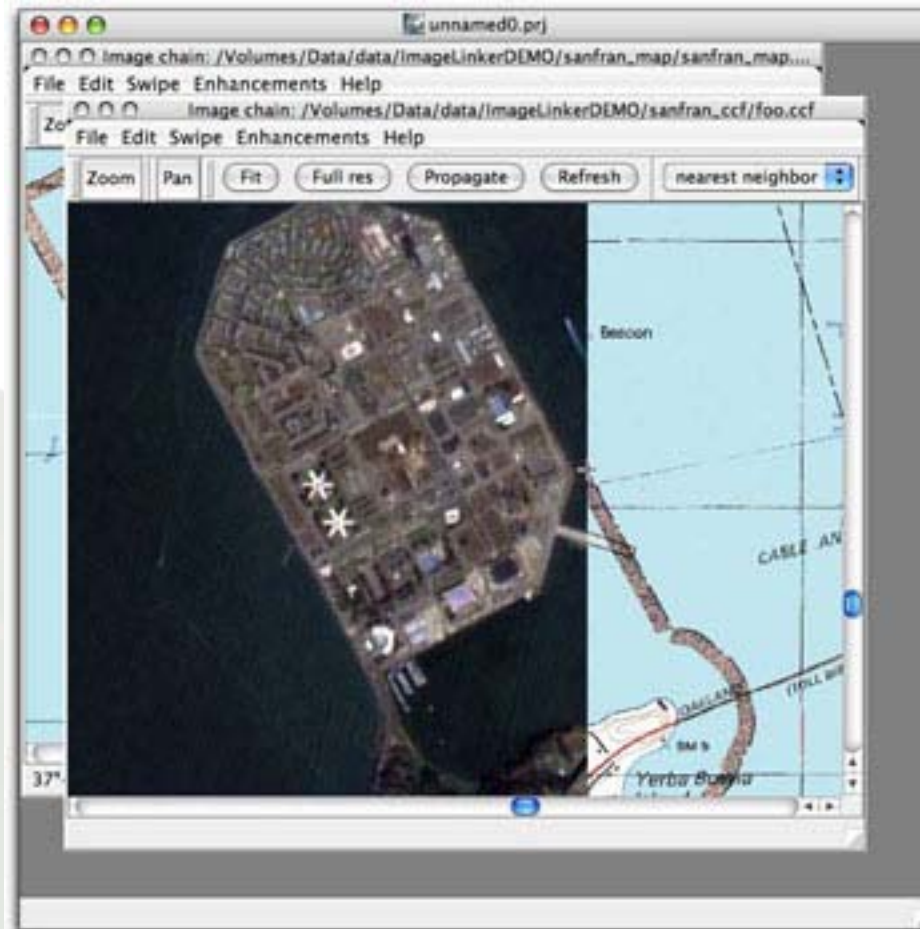
Publish Viewing Geometries



All
Windows
Display
Same
View

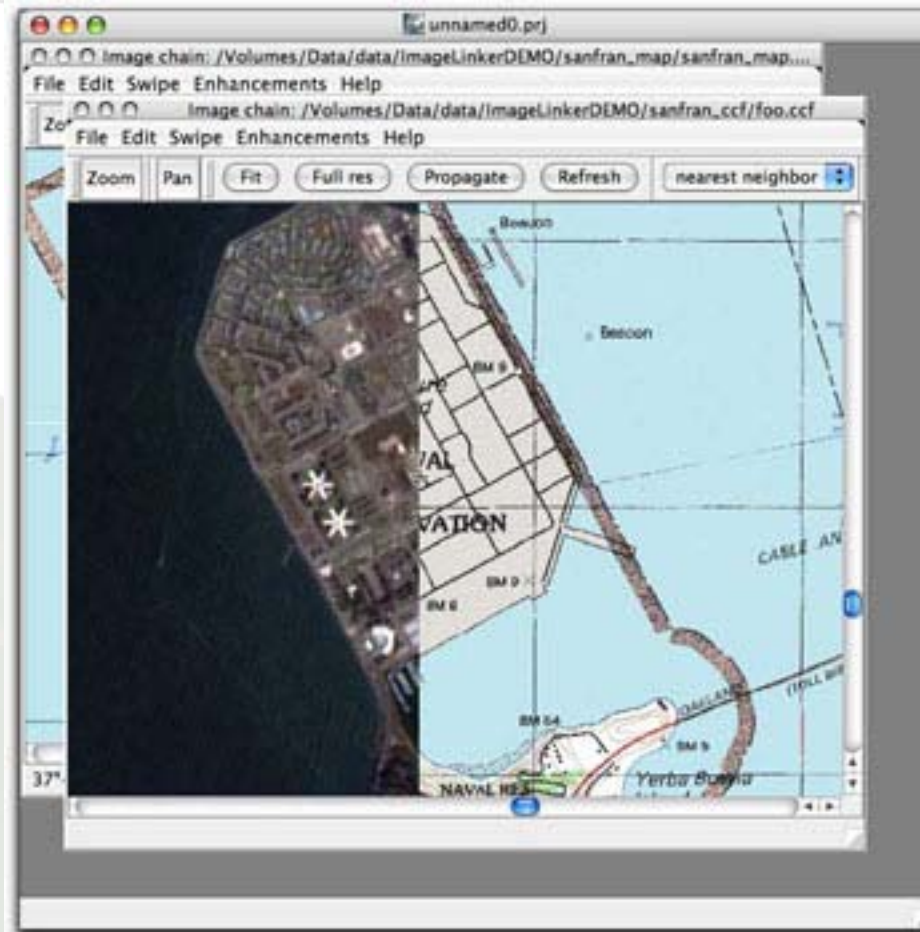
OSSIM

Swipe Displays



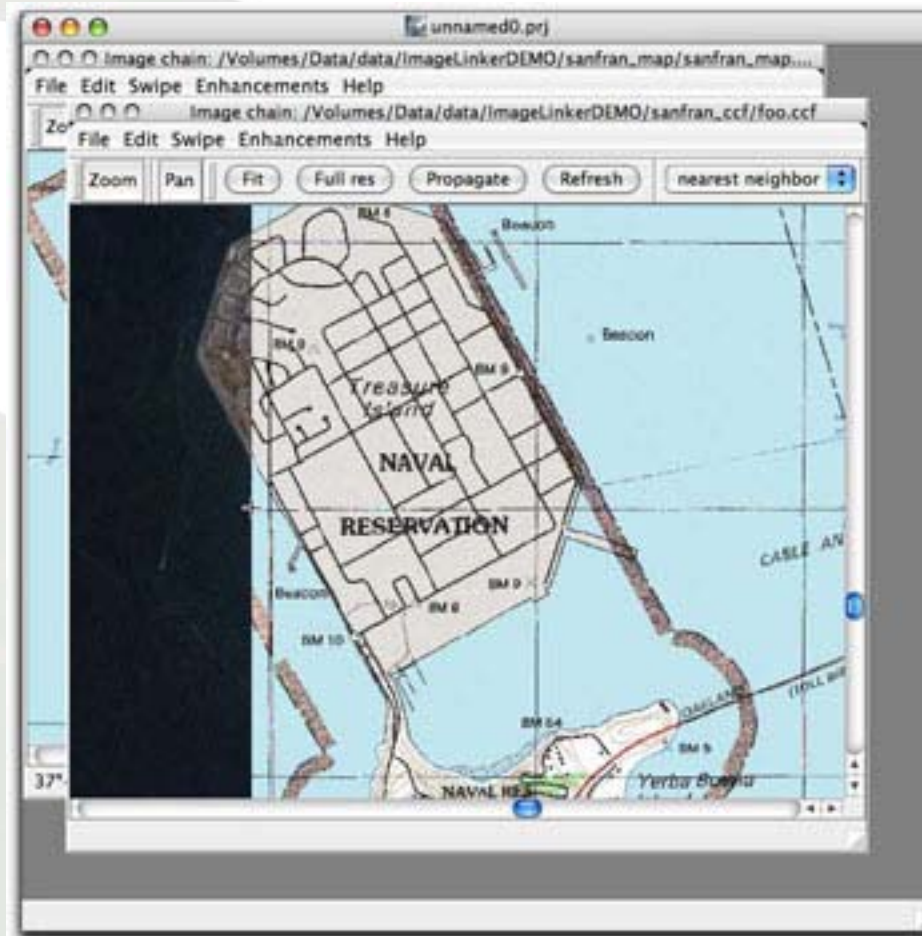
OSSIM

Swipe Displays



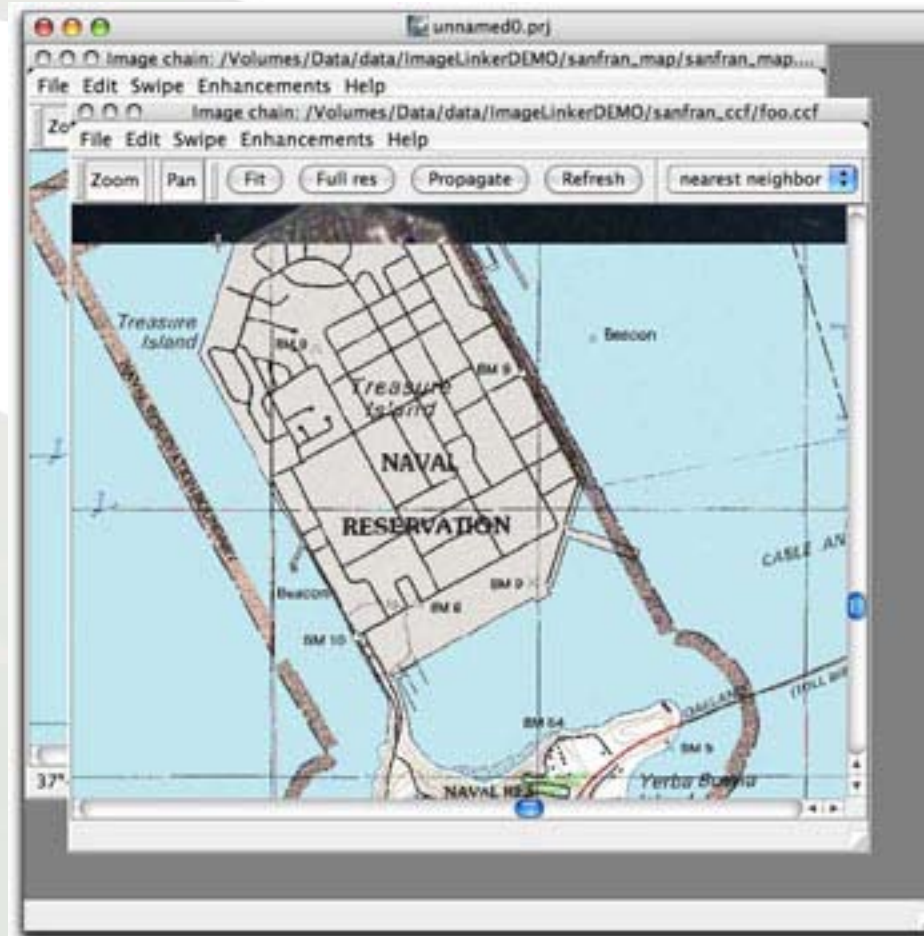
OSSIM

Swipe Displays



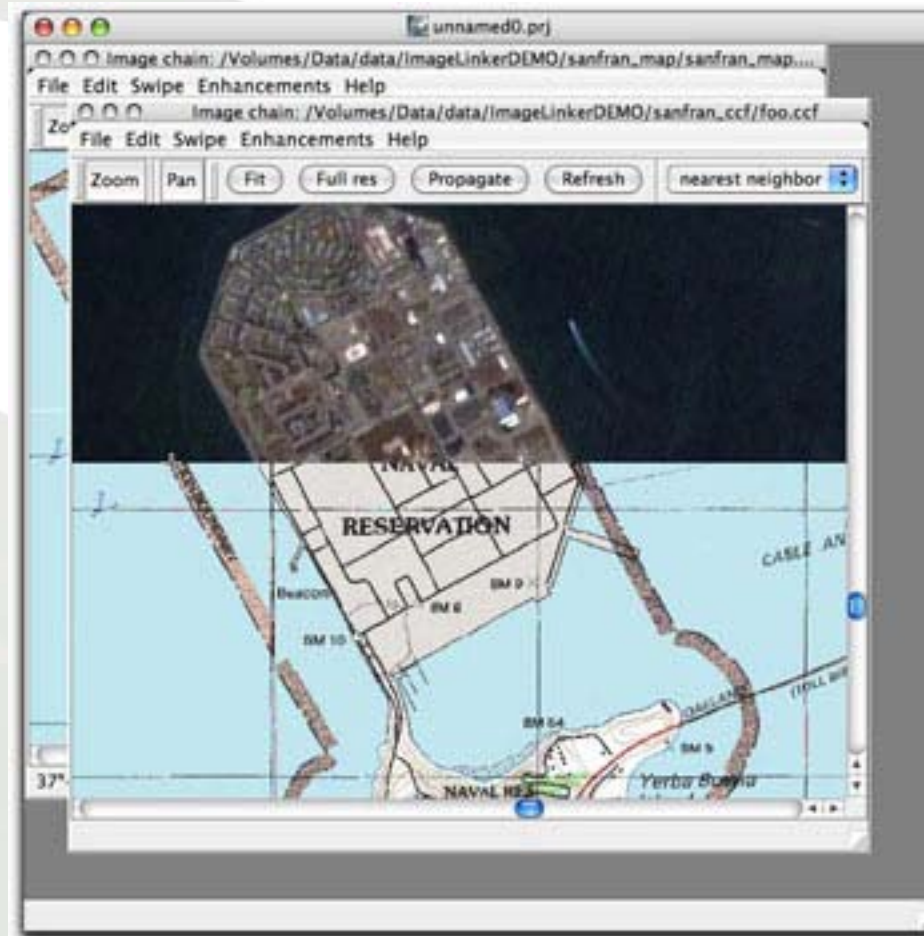
OSSIM

Swipe Displays



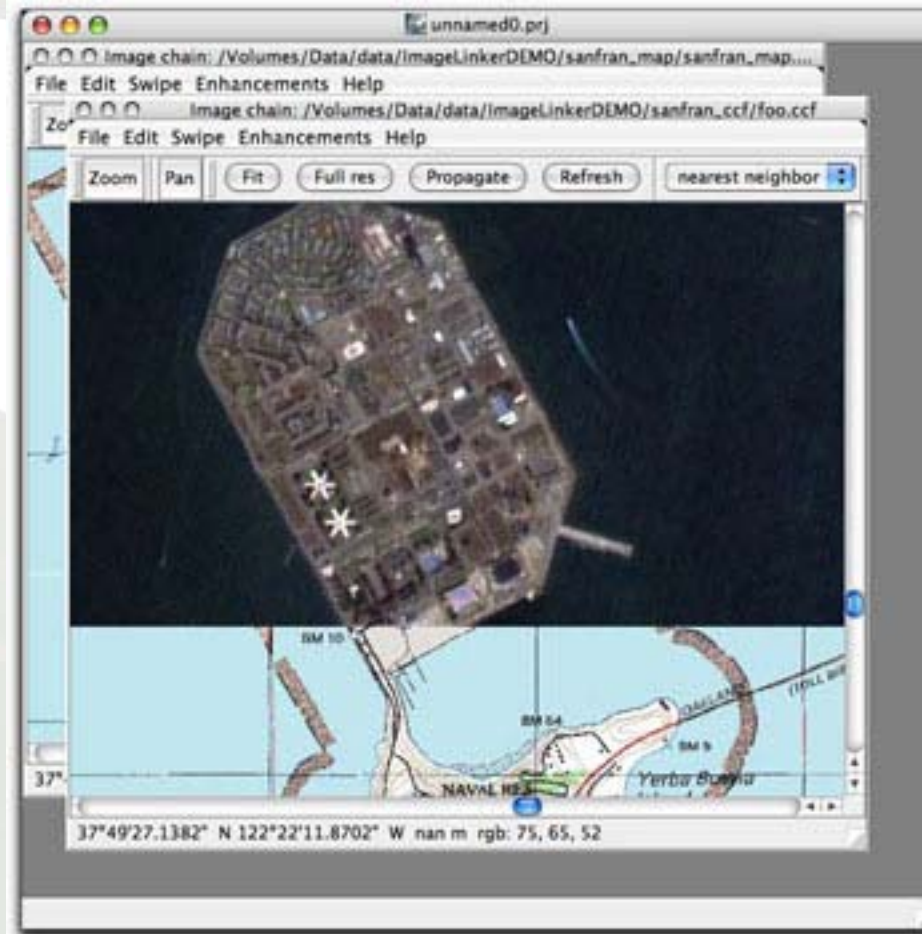
OSSIM

Swipe Displays



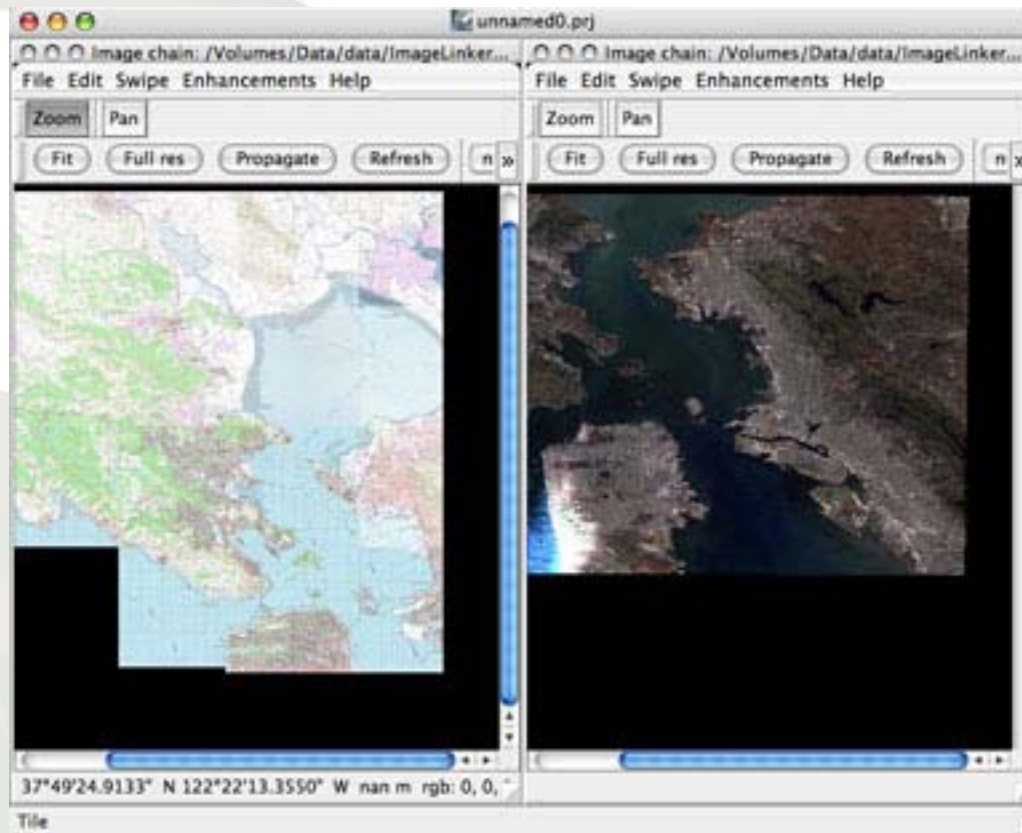
OSSIM

Swipe Displays



OSSIM

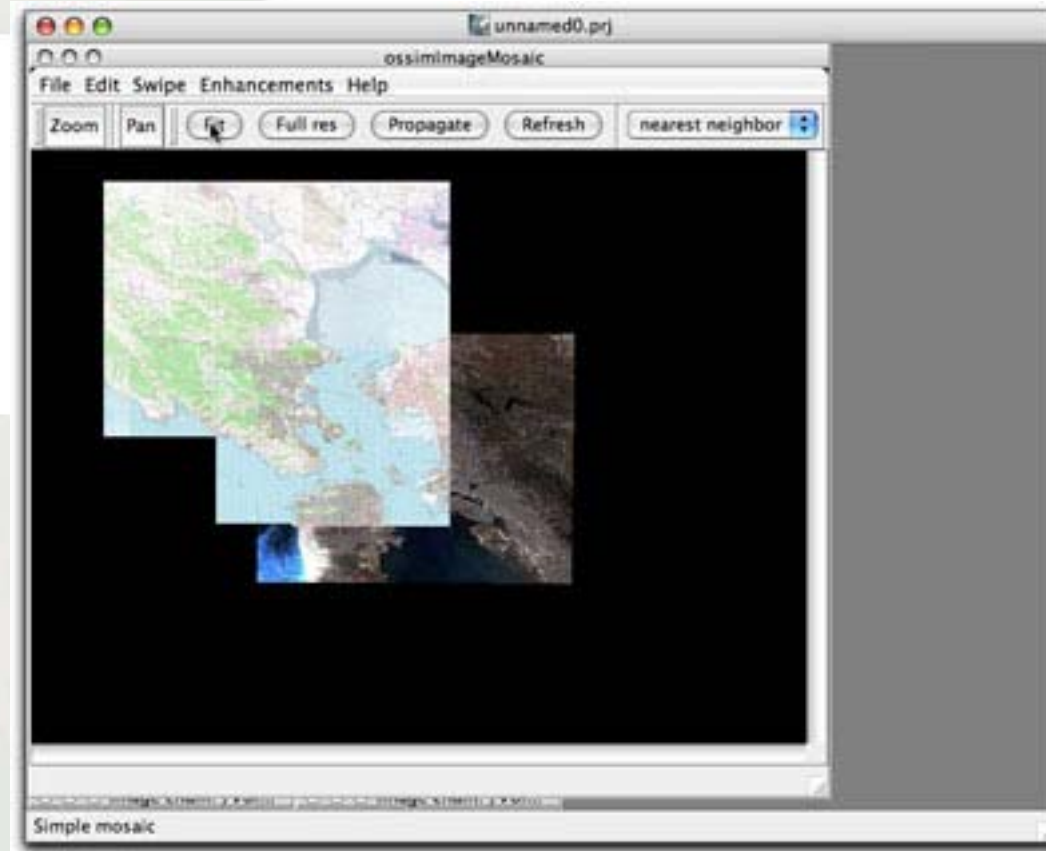
Fit to Window



Quick
Overviews

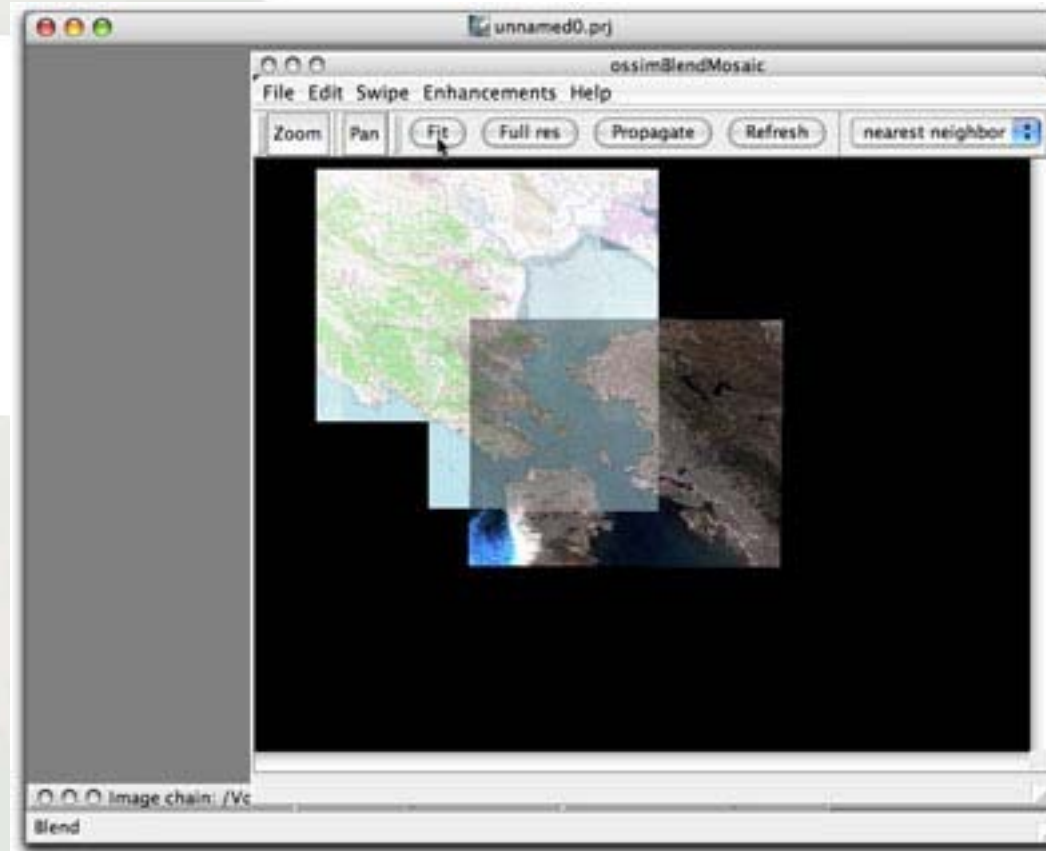
OSSIM

Mosaics



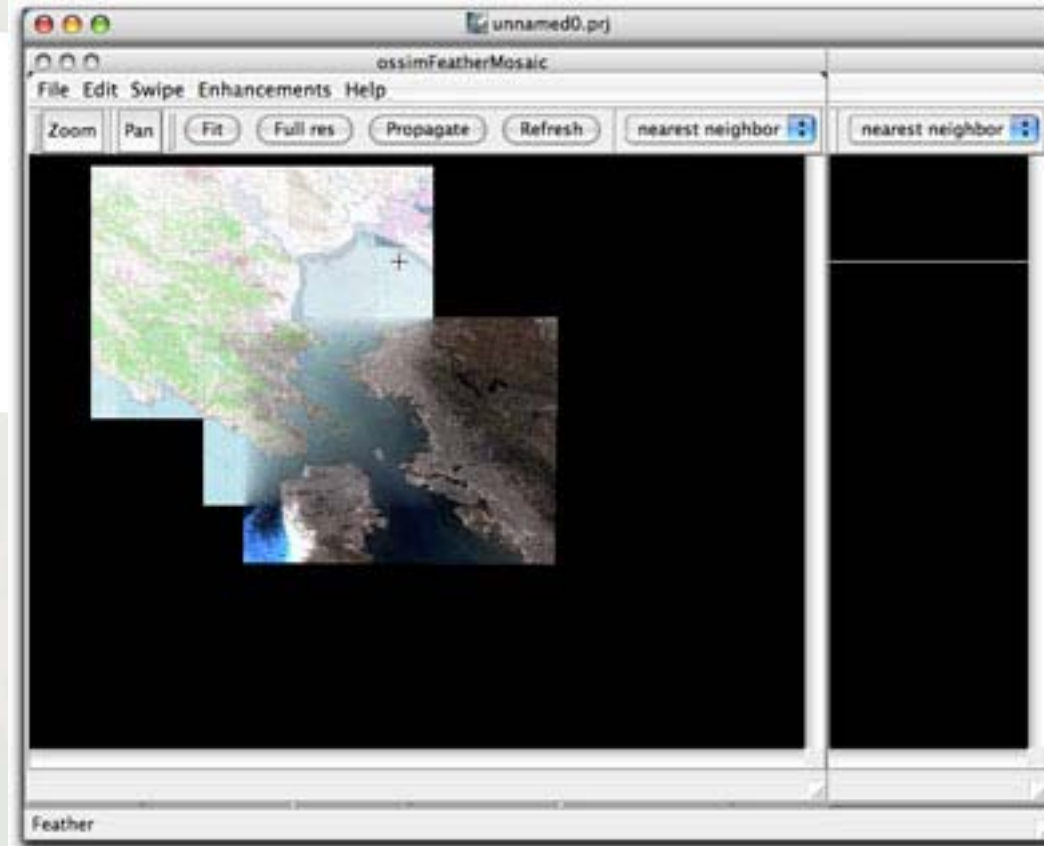
OSSIM

Blends



OSSIM

Feathering



OSSIM

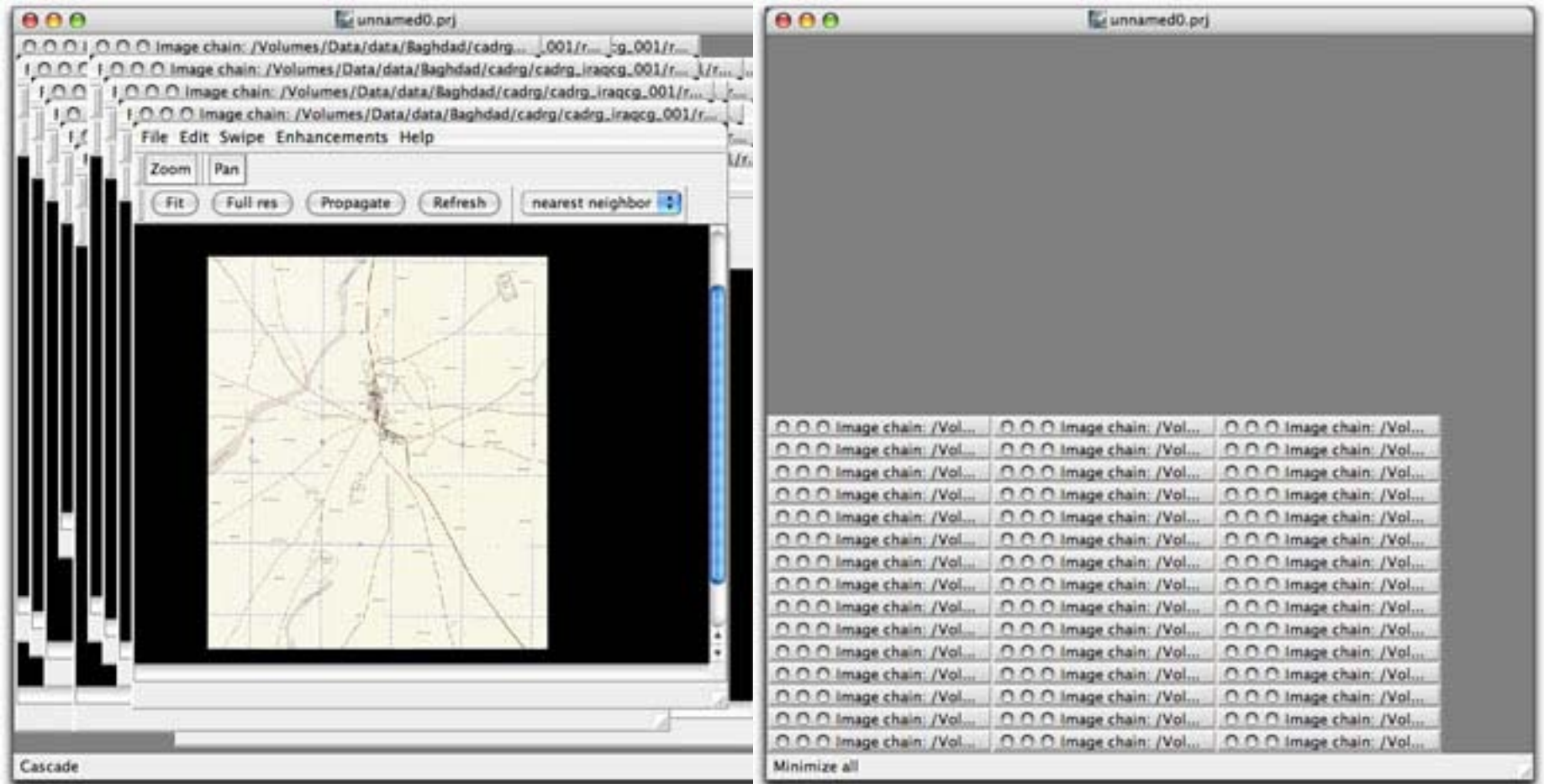
Elevation Processing

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

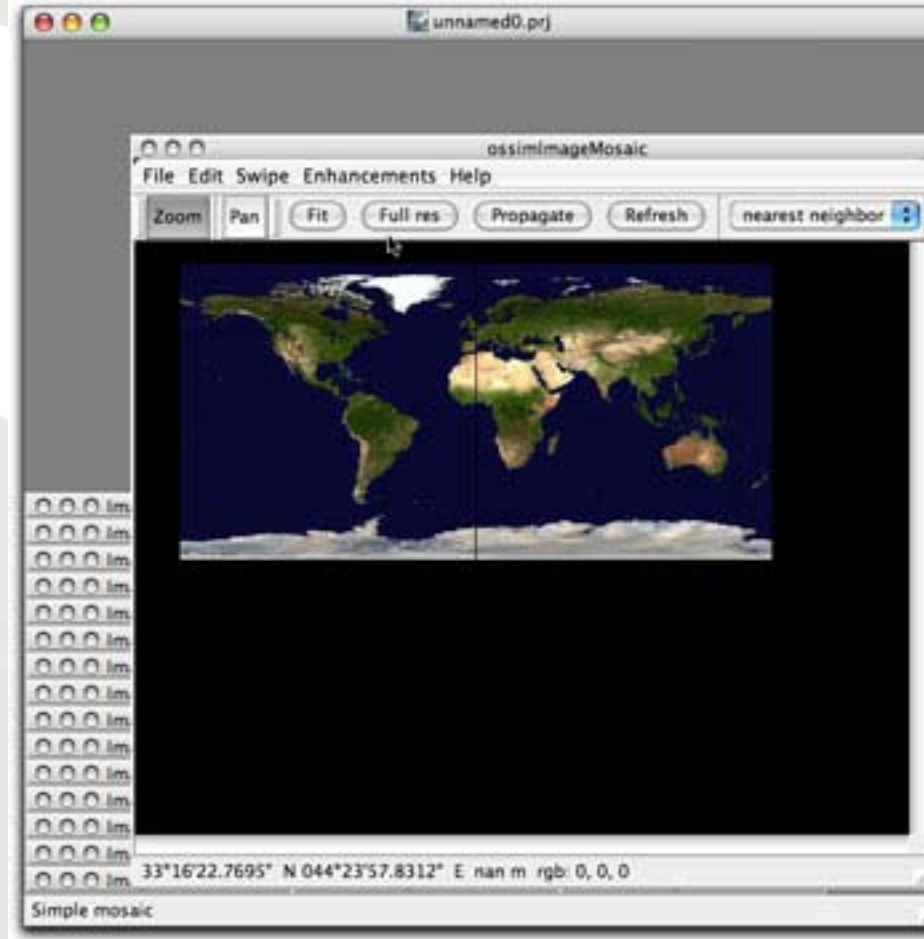
OSSIM

CADRG, SPOT, QB, CIB, NASA Data



OSSIM

Very Large Mosaics



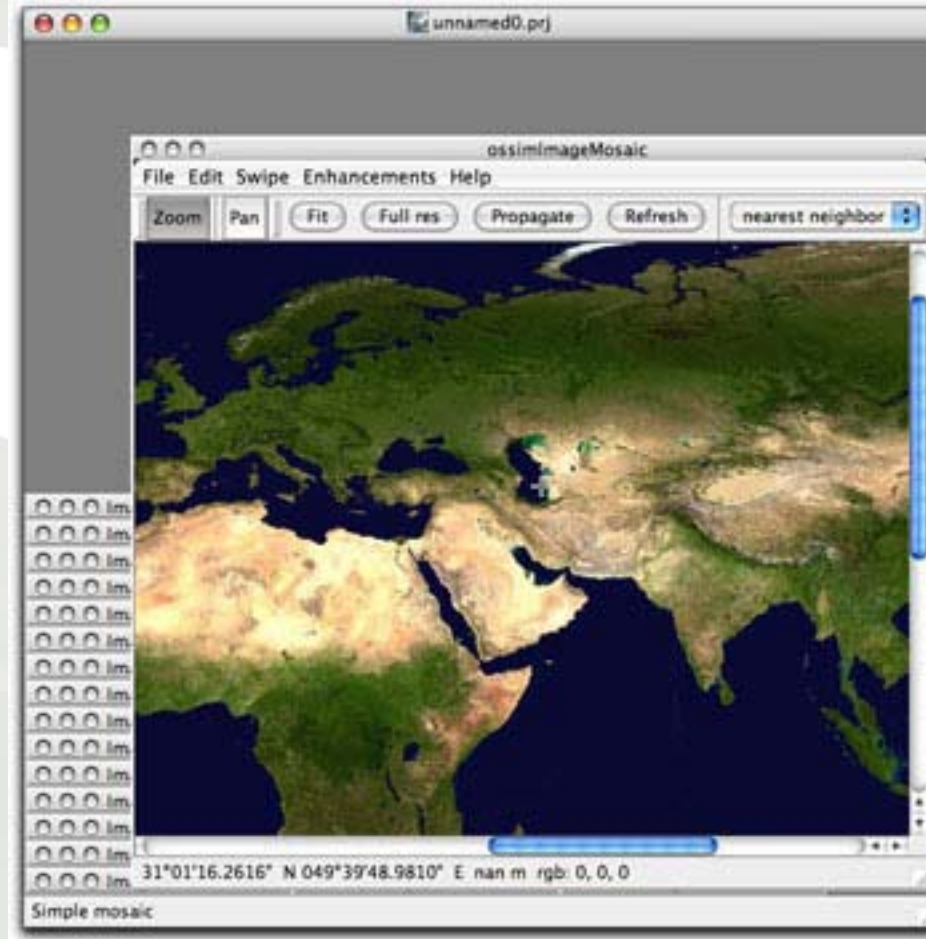
OSSIM

On a Laptop



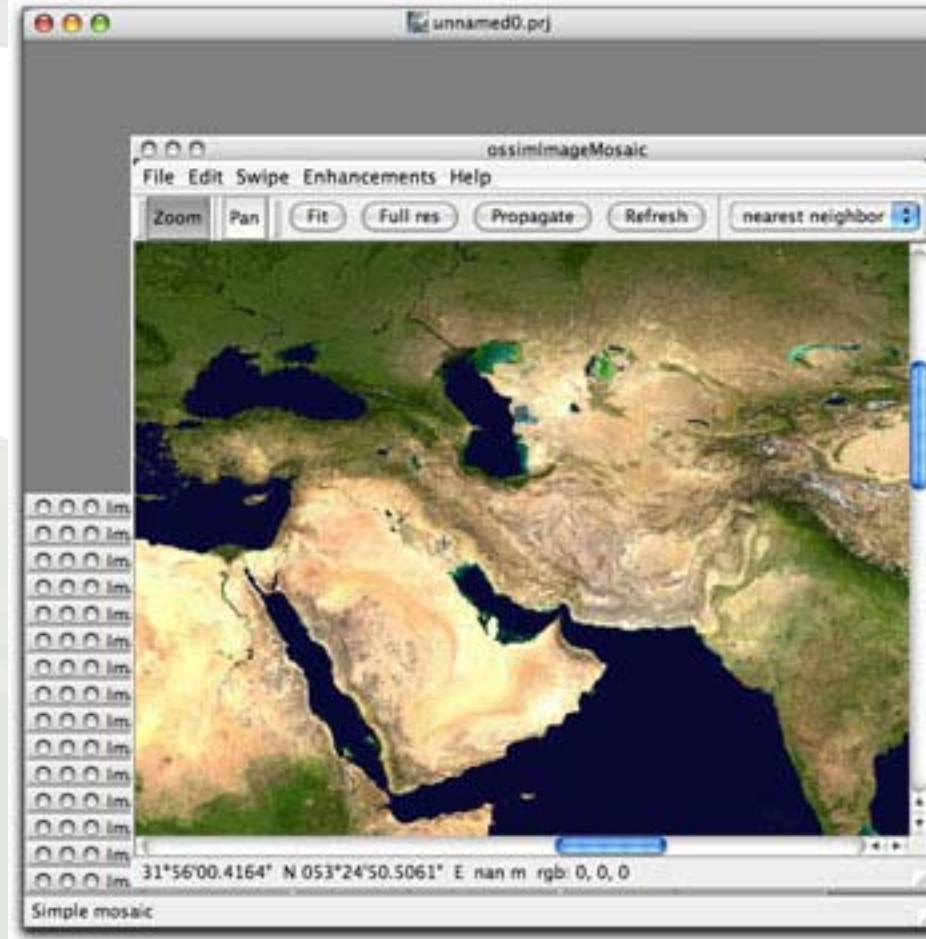
OSSIM

NASA 2.6 Gig File



OSSIM

Zoom to Baghdad



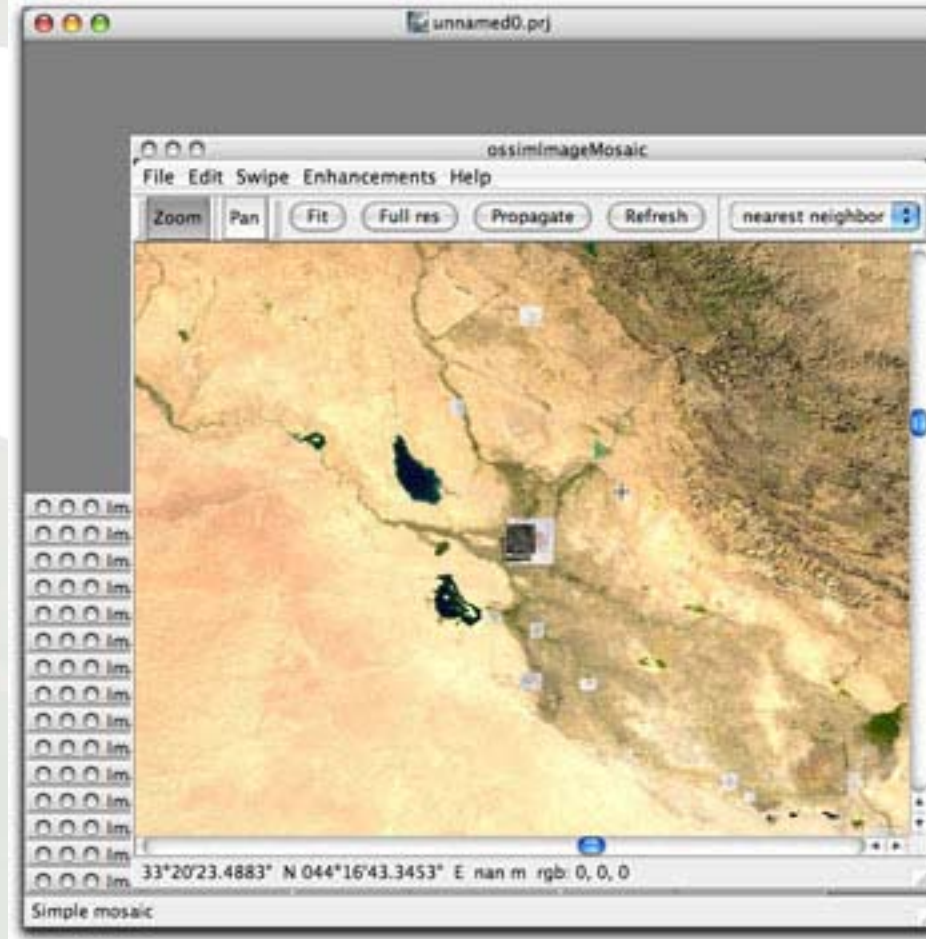
OSSIM

Middle East



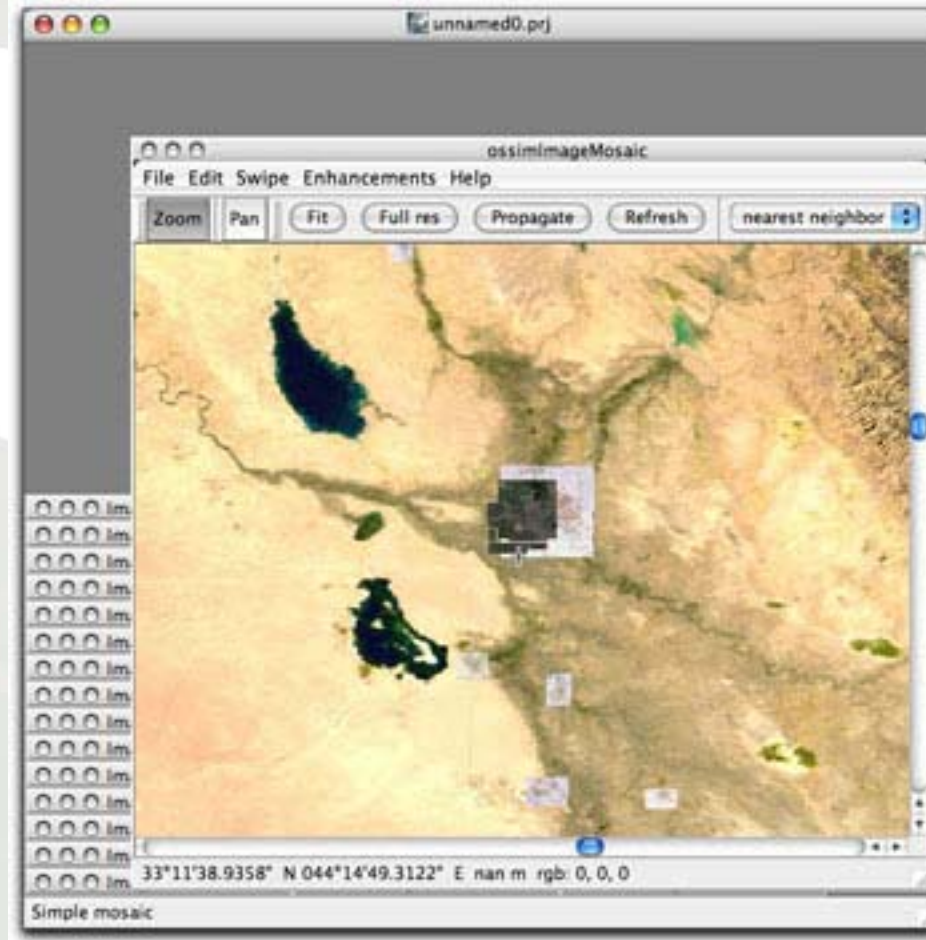
OSSIM

CADRGM Maps through a.toc



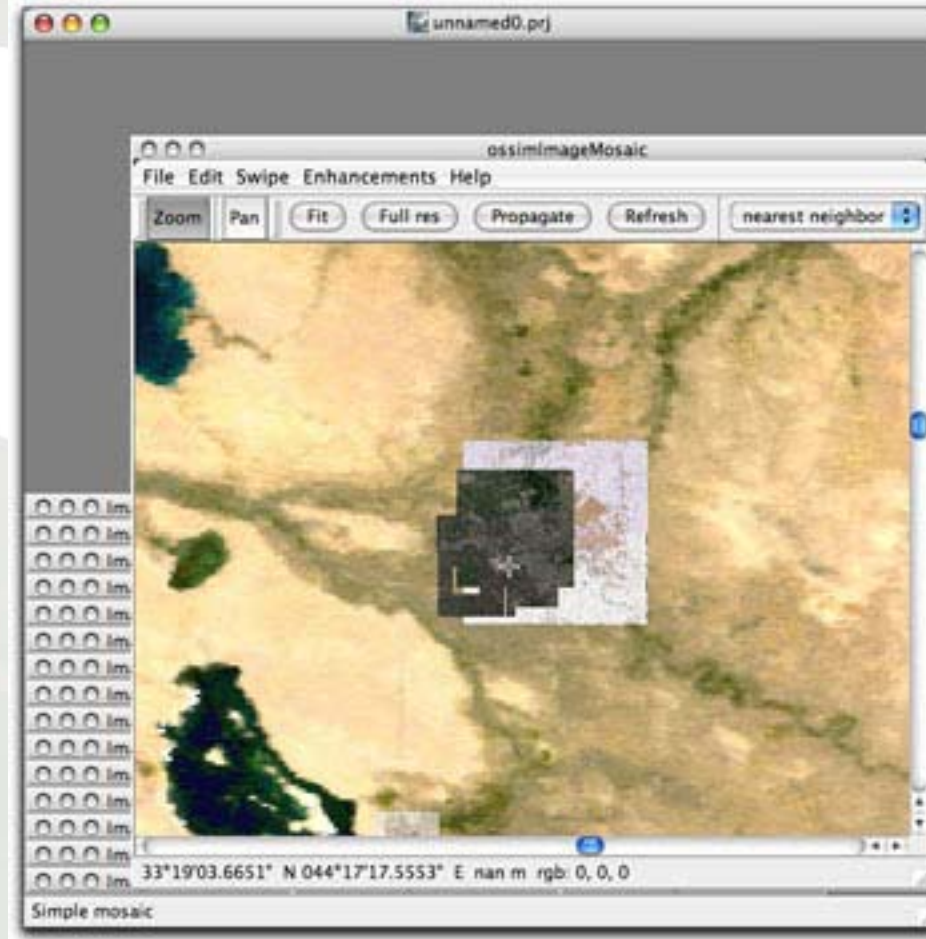
OSSIM

SPOT 5 Image



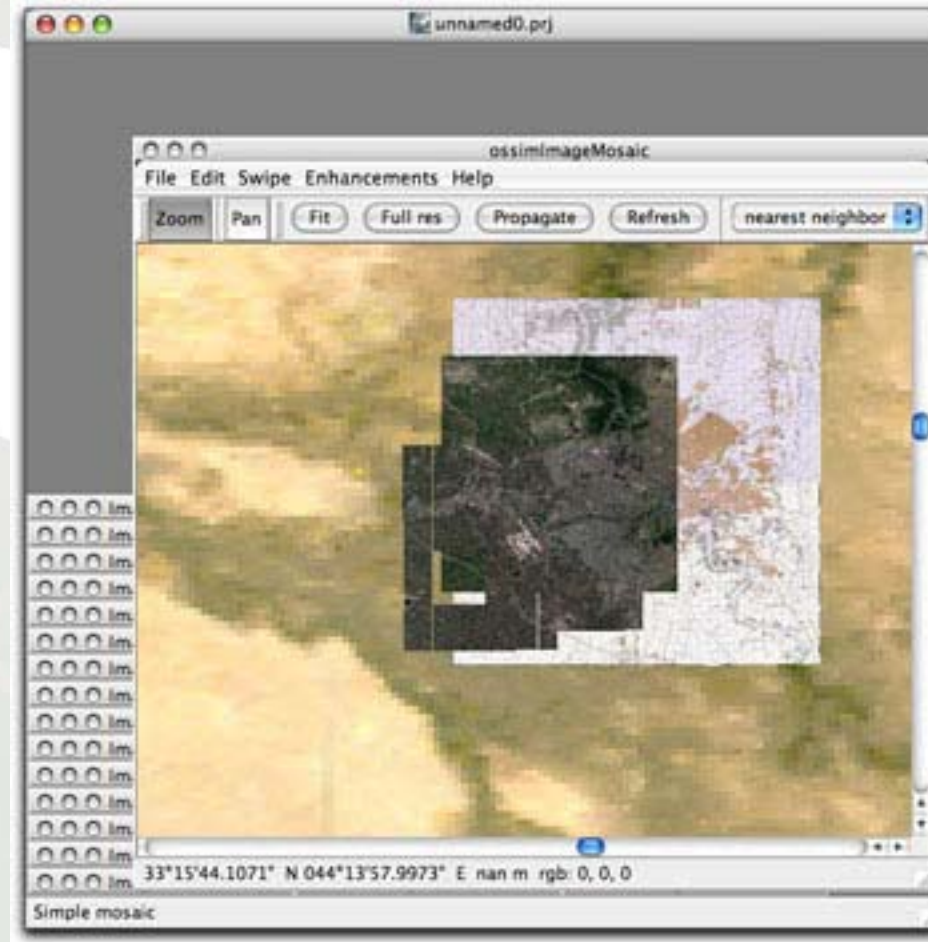
OSSIM

Digital Globe QuickBird Mosaic



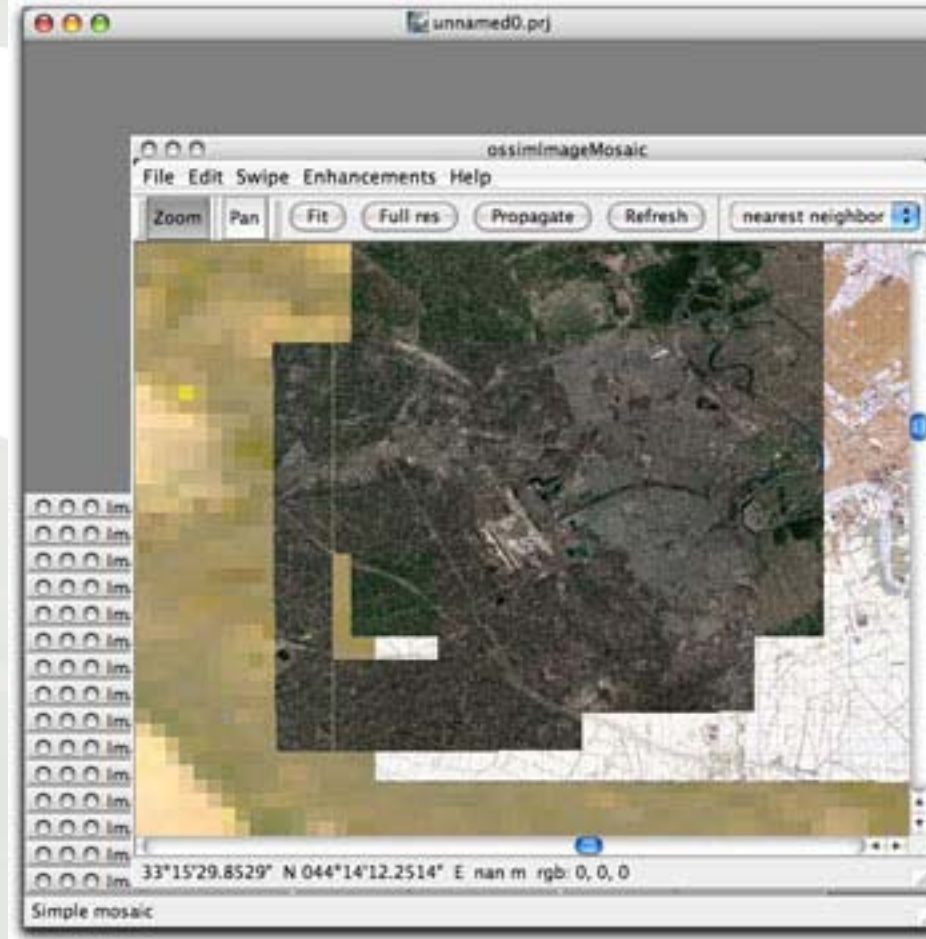
OSSIM

Baghdad Area



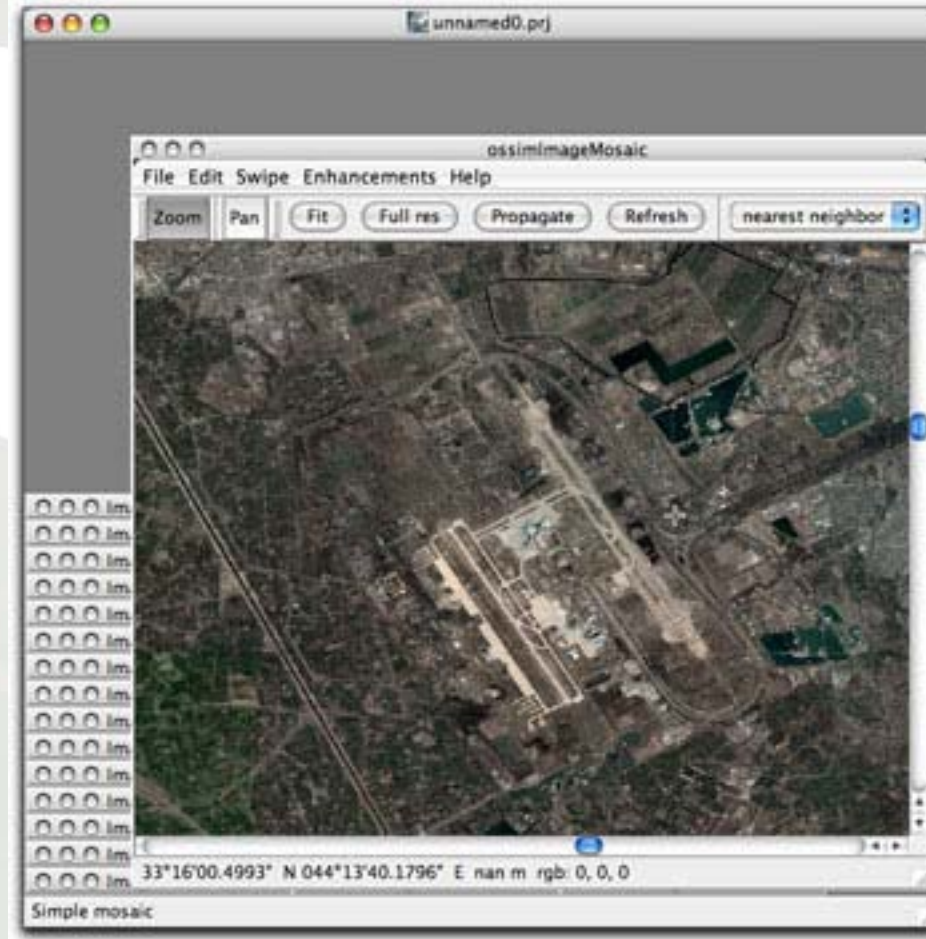
OSSIM

Zoom to Airport



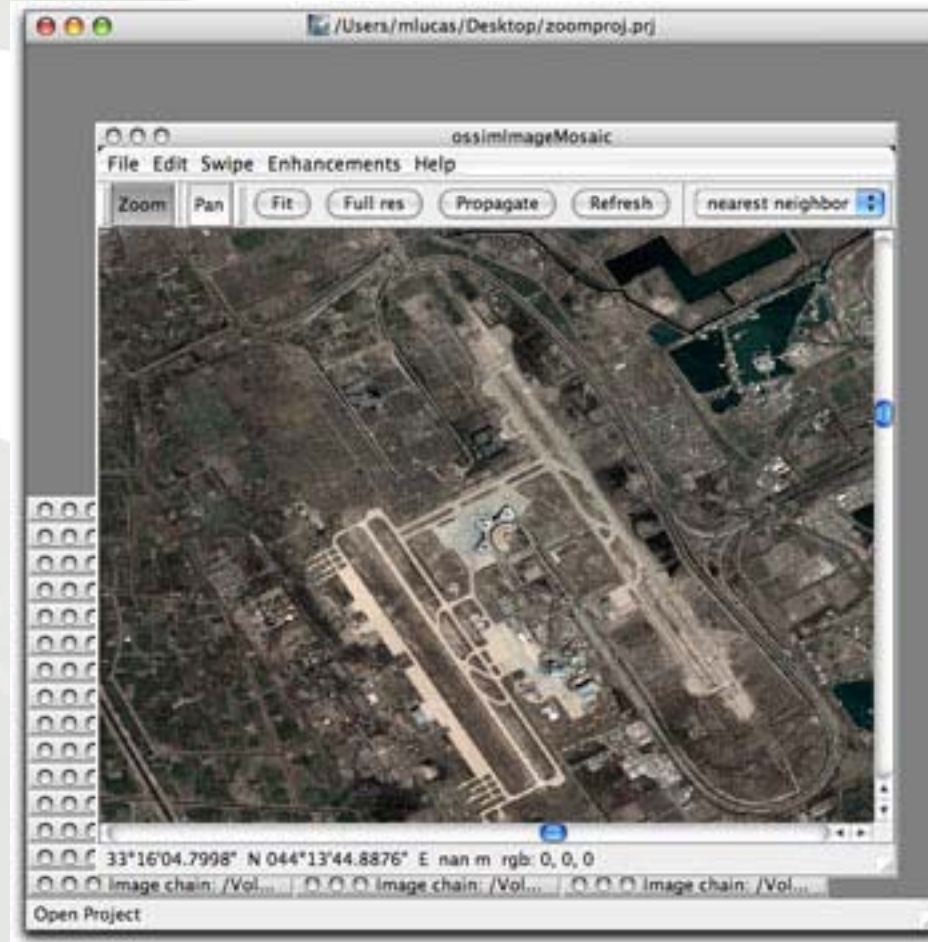
OSSIM

Baghdad Airport



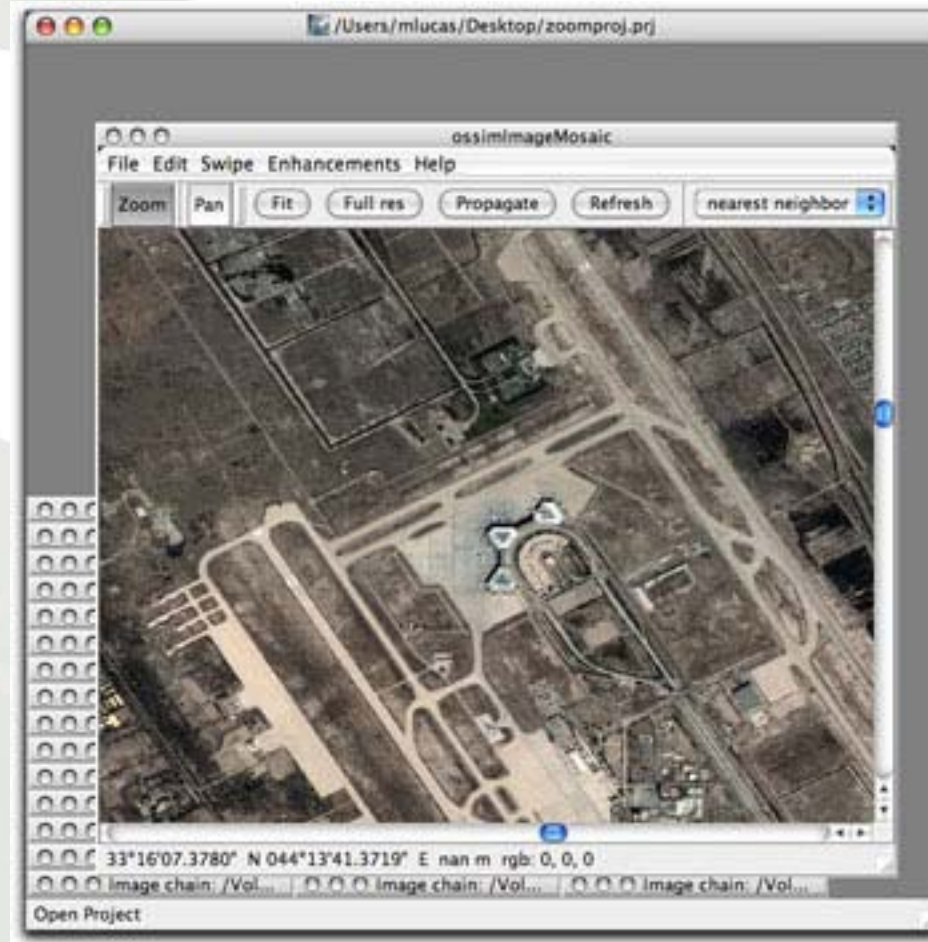
OSSIM

30 GB Mosaic



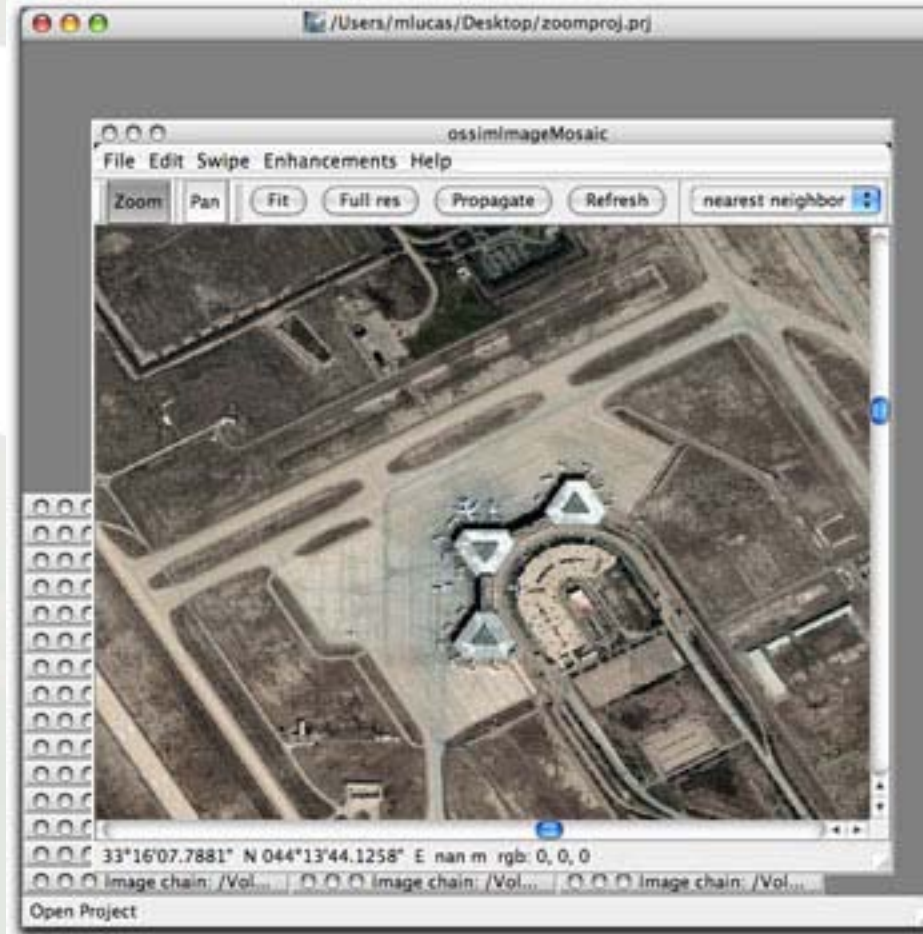
OSSIM

meter



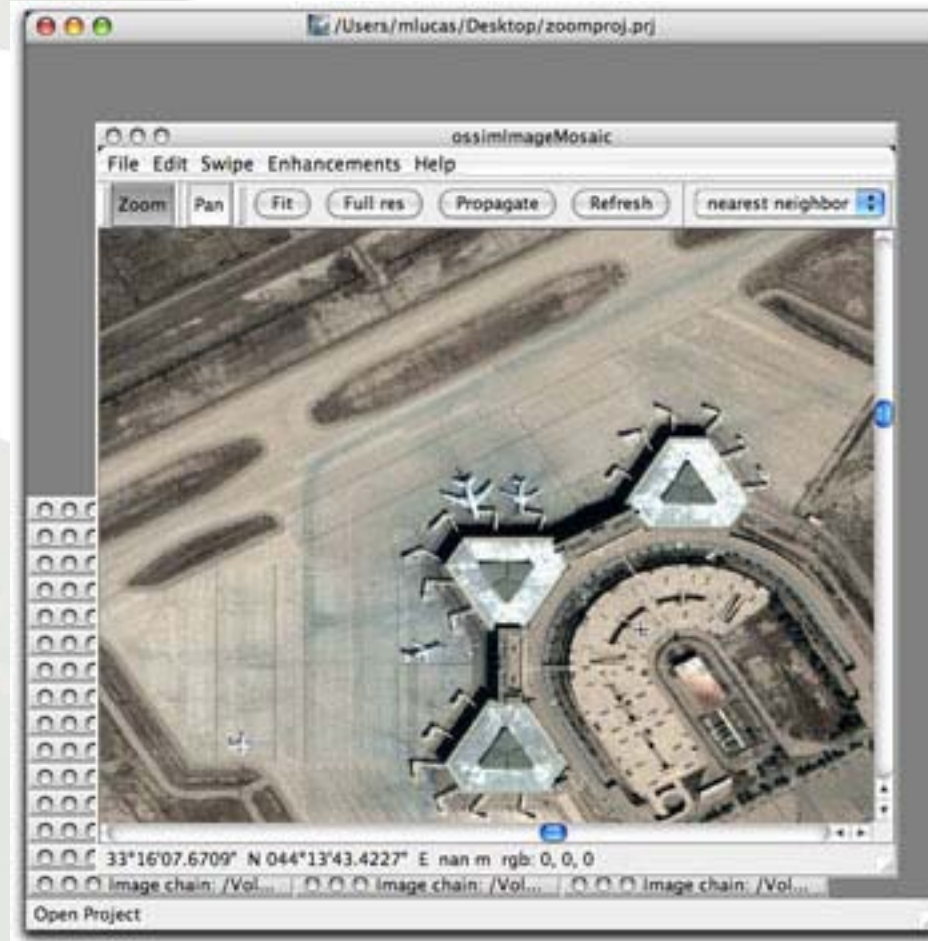
OSSIM

Very Large Mosaics



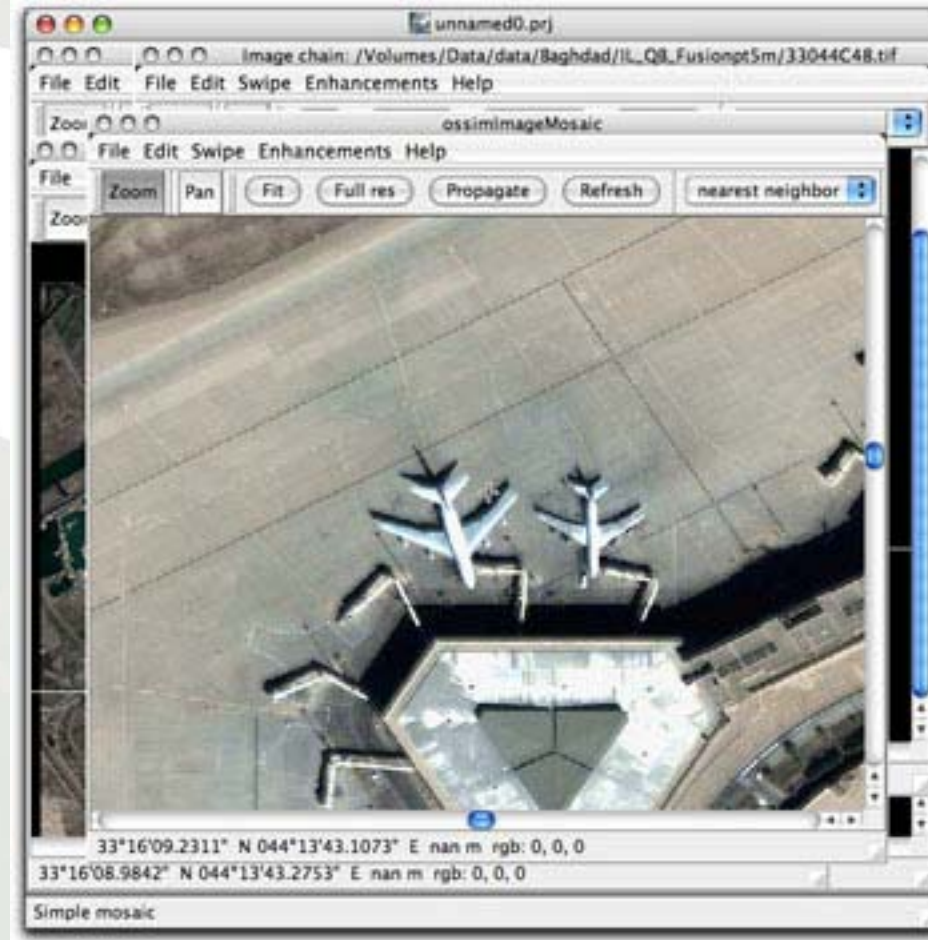
OSSIM

2.5 Meter



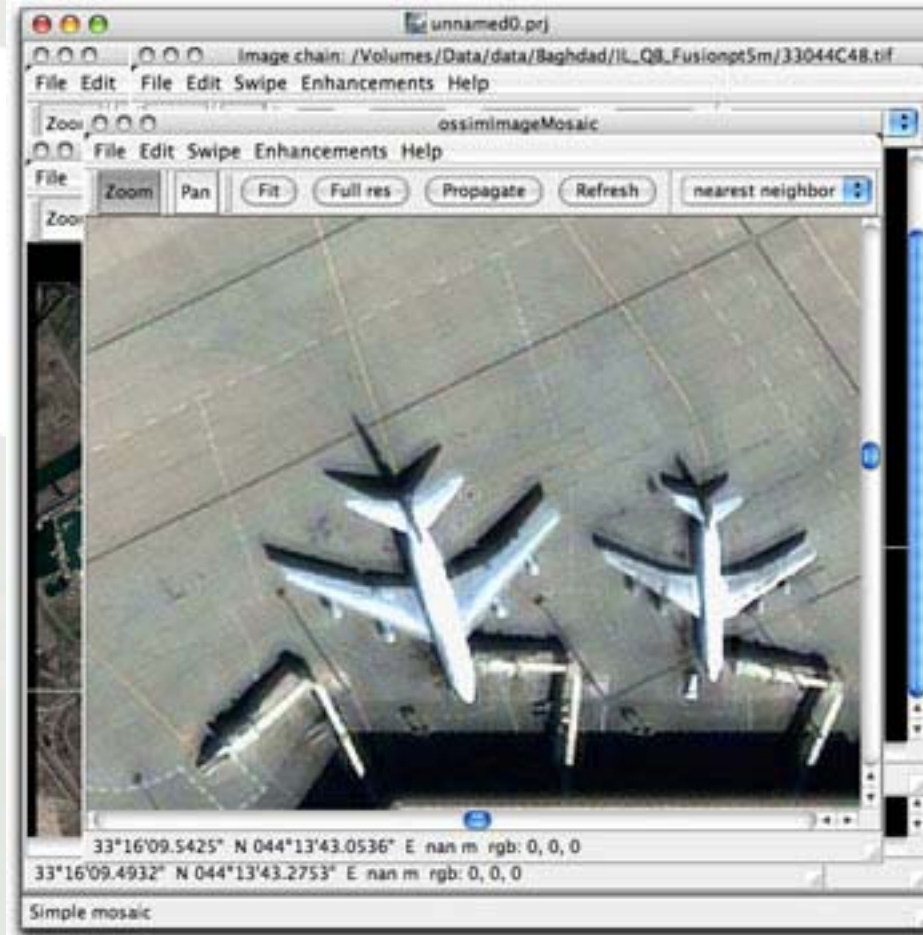
OSSIM

1 Meter



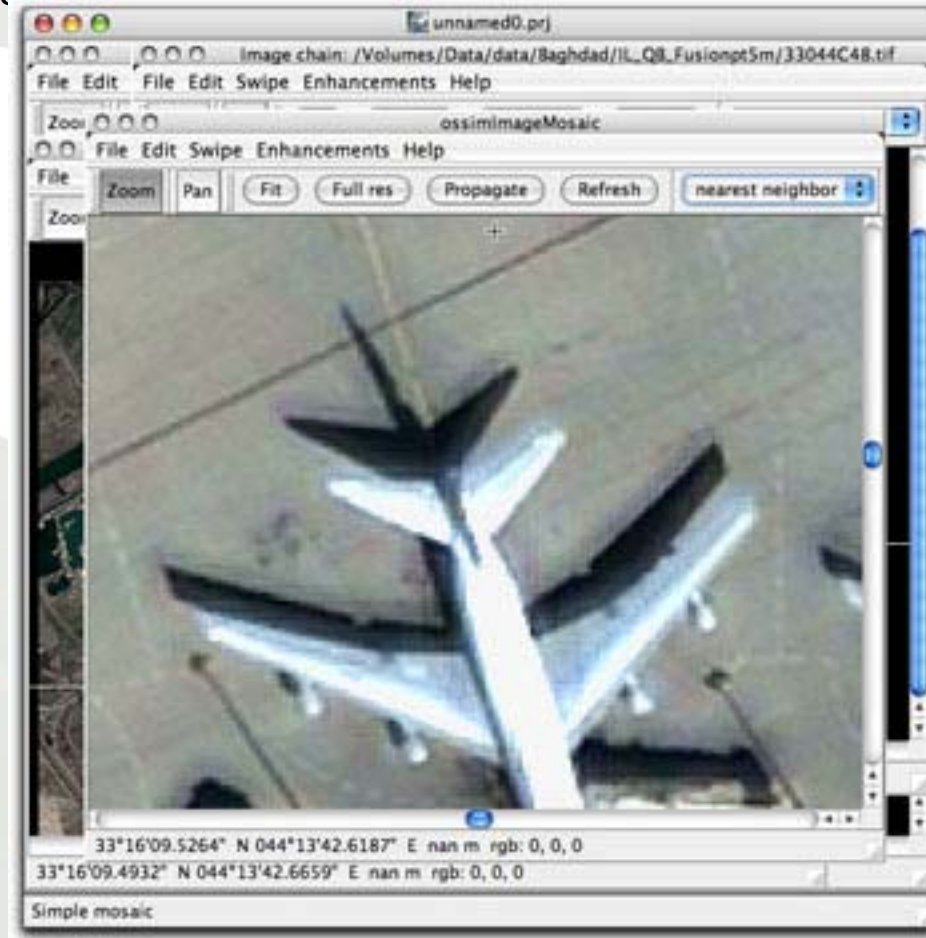
OSSIM

0.5 Meter



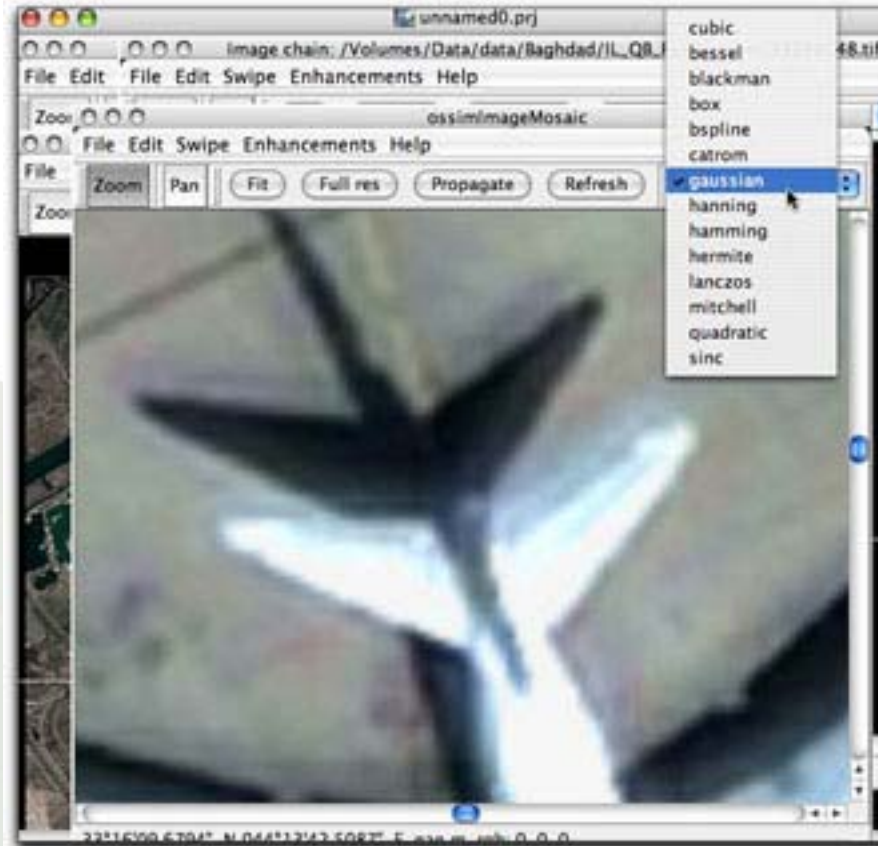
OSSIM

Super Sampling



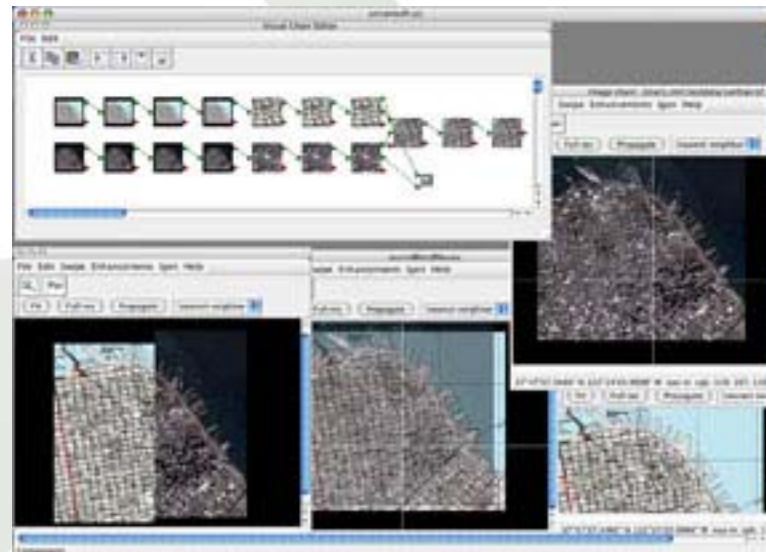
OSSIM

Various resamplers



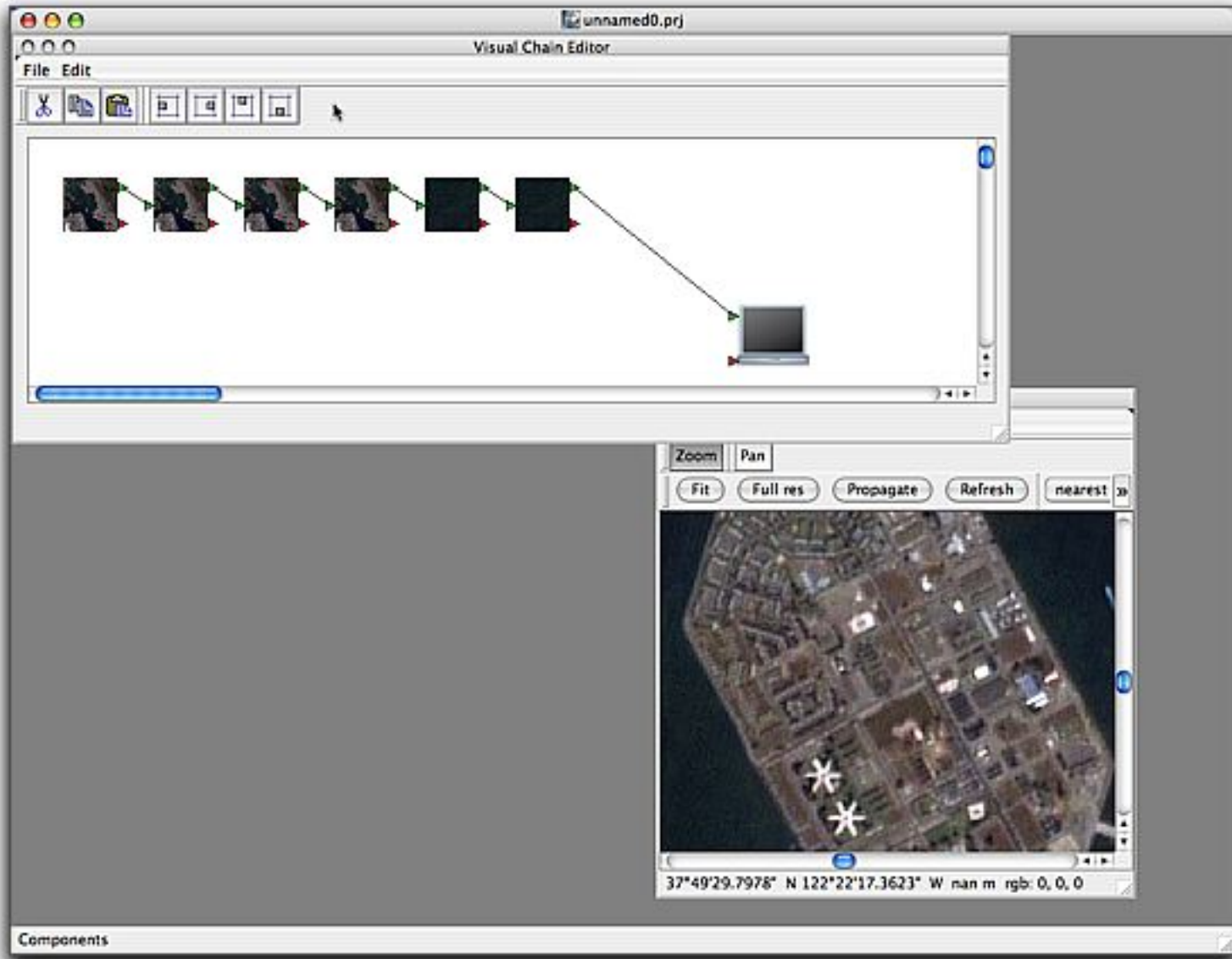
OSSIM

Advanced Prototyping



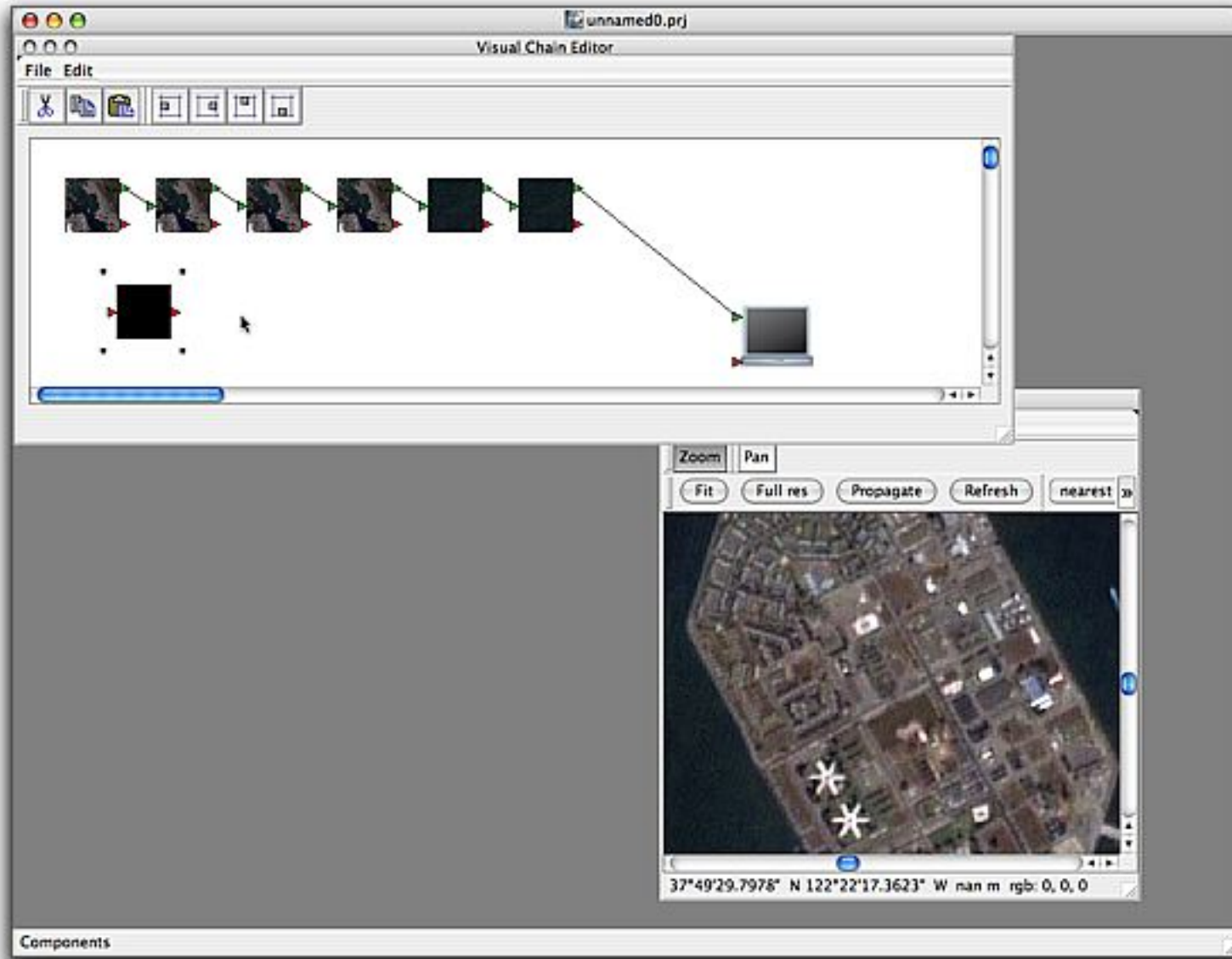
OSSIM

Visual Chain Editor



Edge Filter

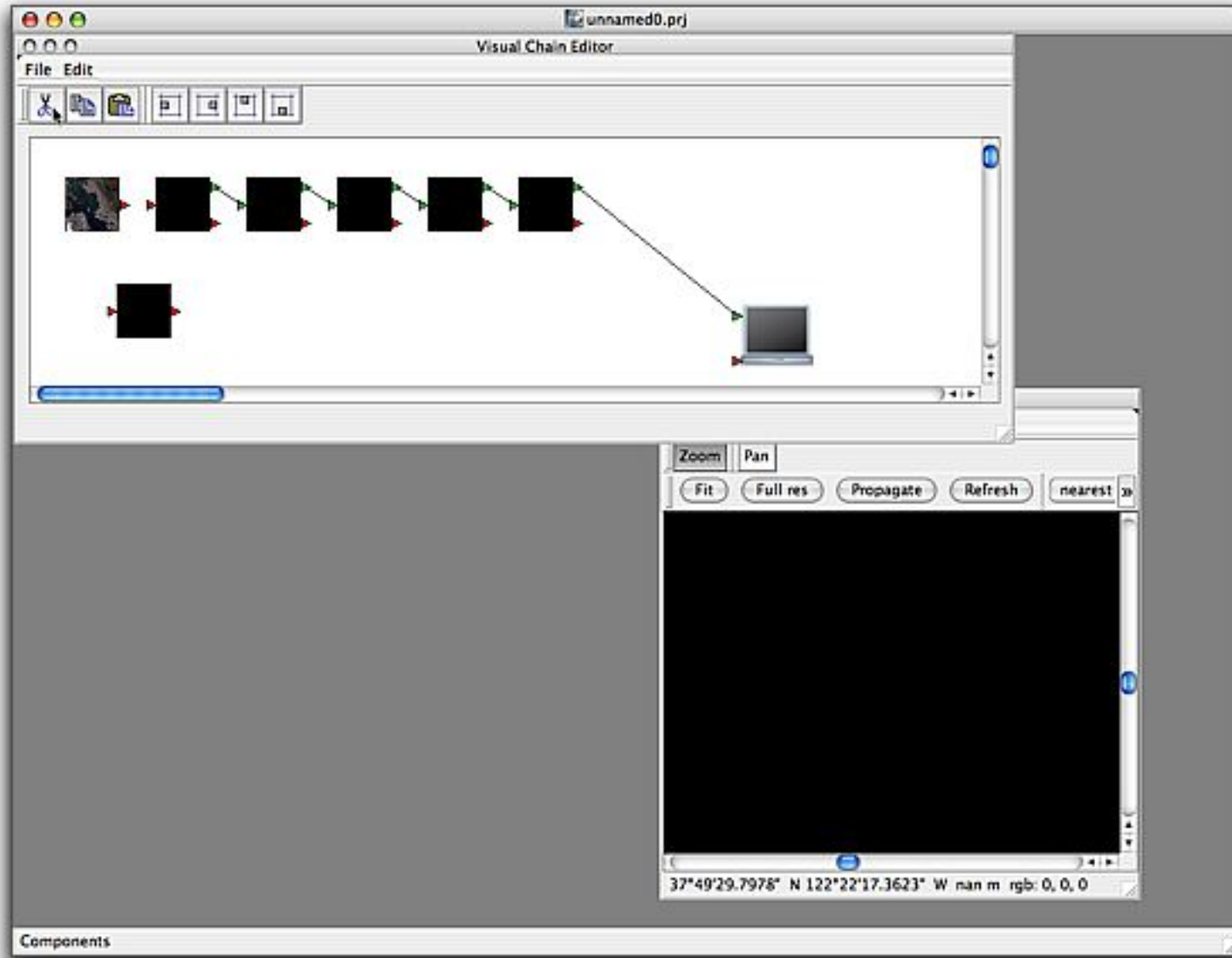
OSSIM

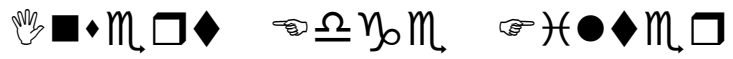


OSSIM

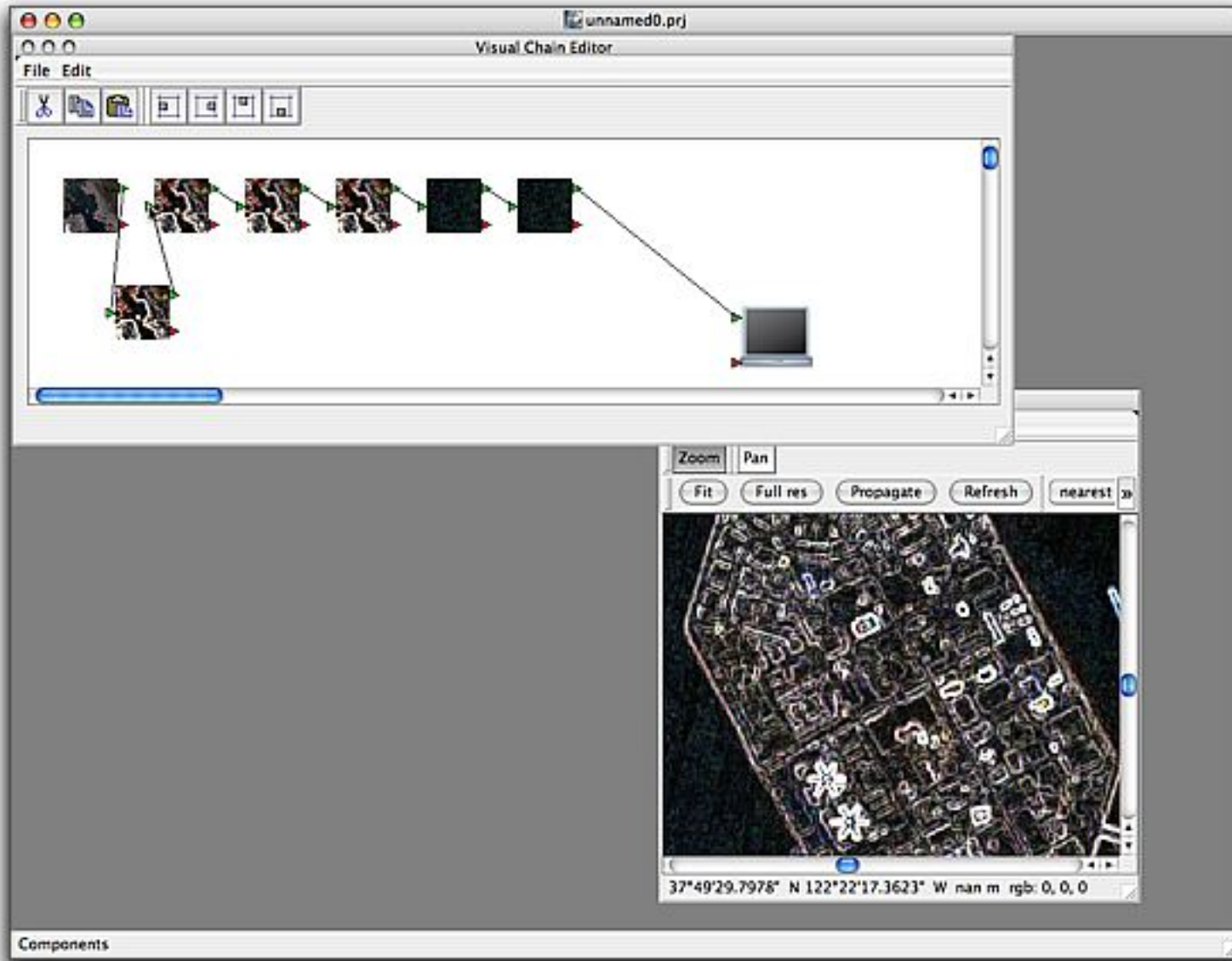


OSSIM

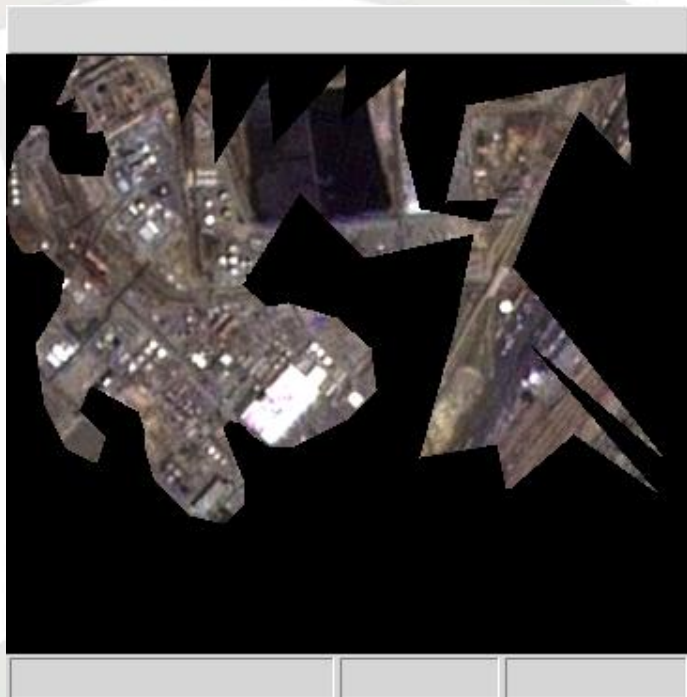




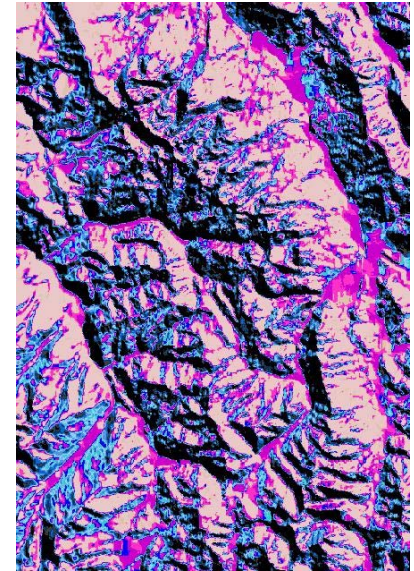
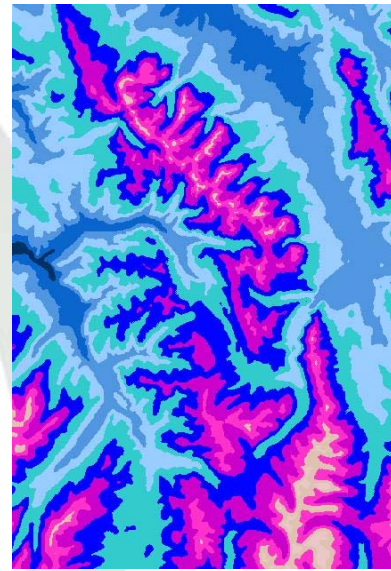
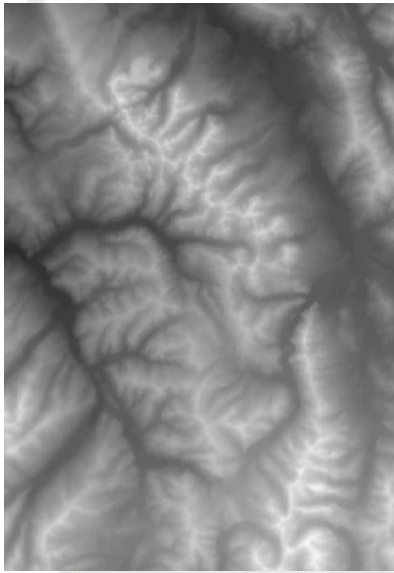
OSSIM



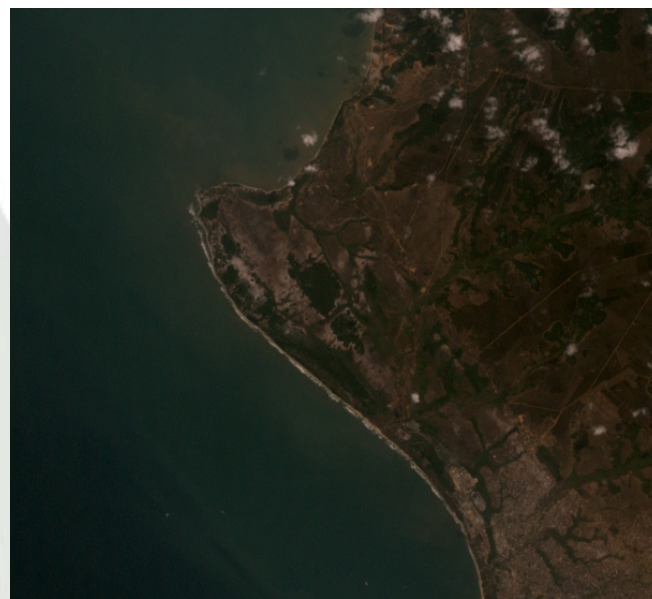
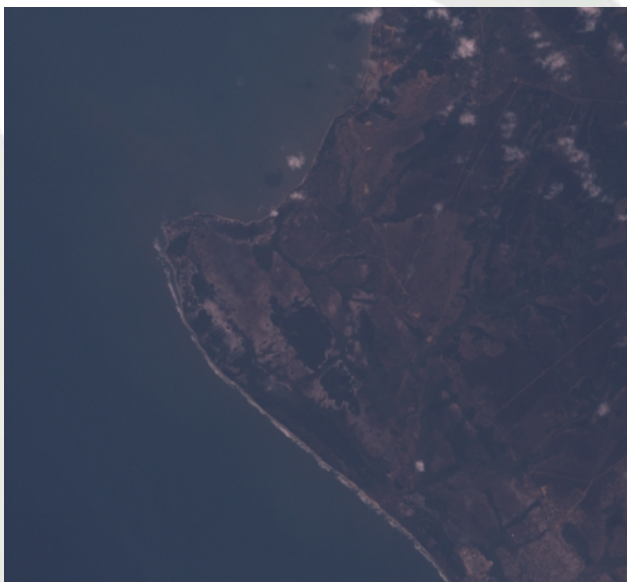
Polygon Masking



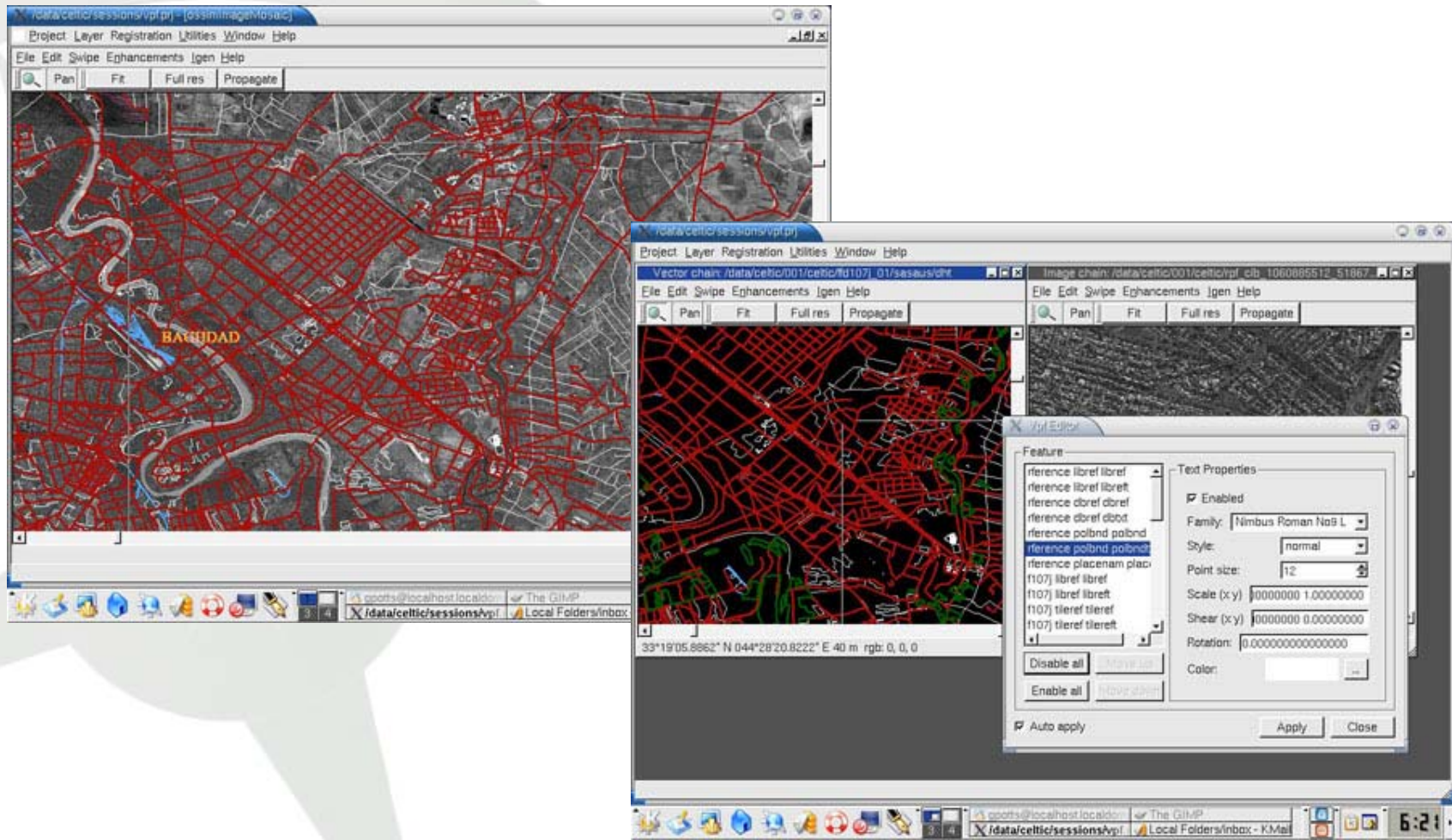
Elevation Processing



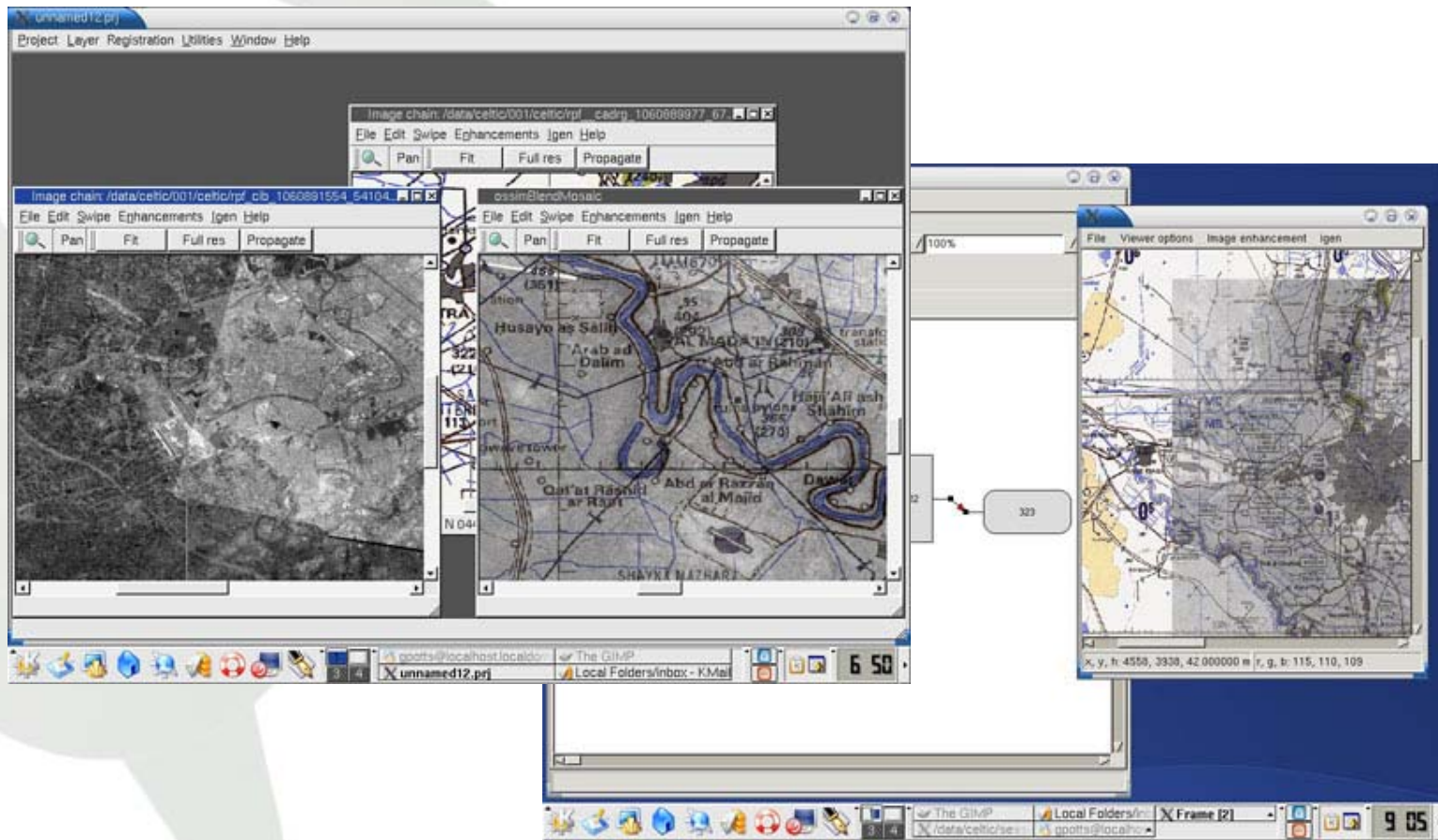
Equation Editor



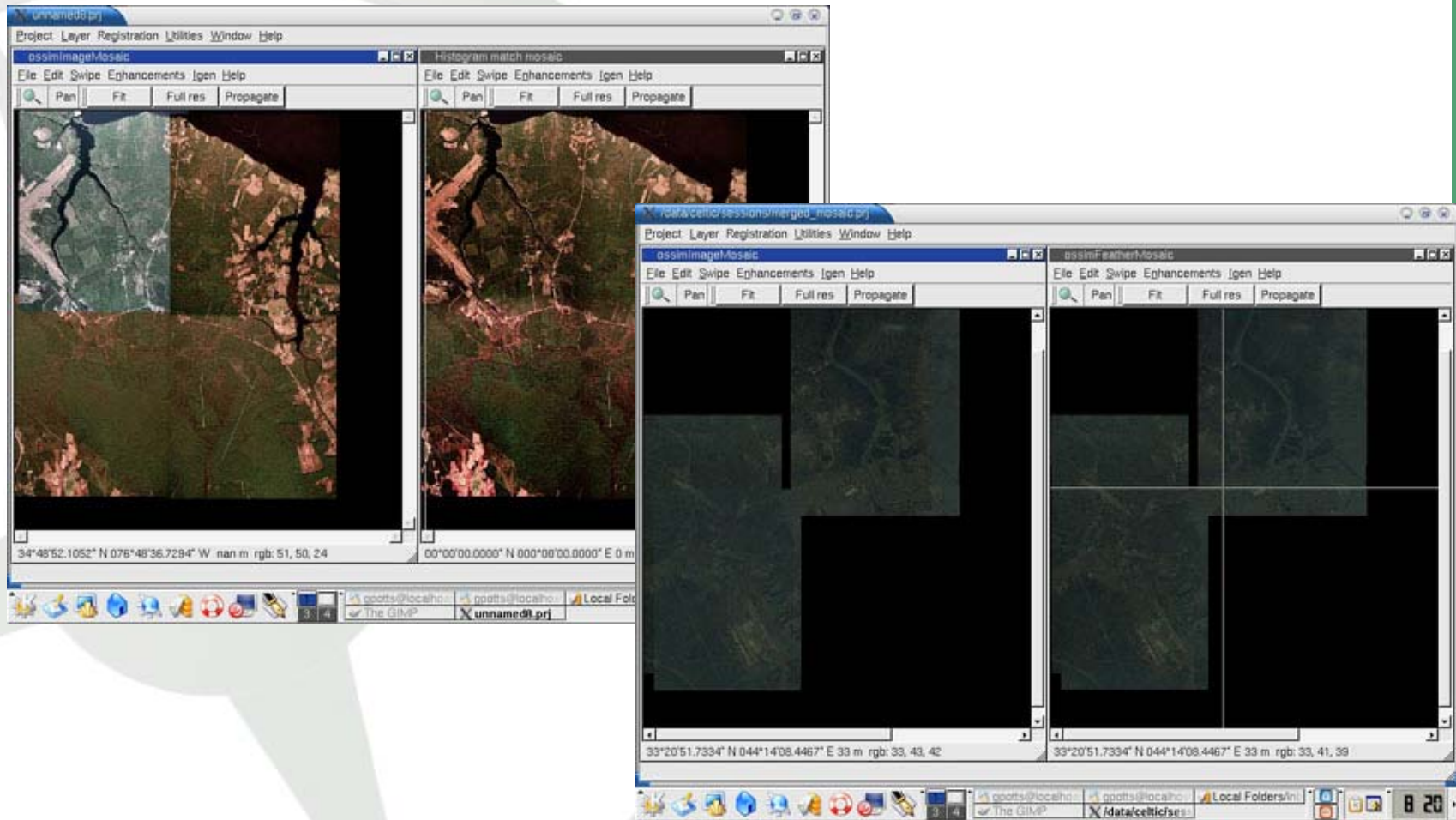
Vector Support



Blends

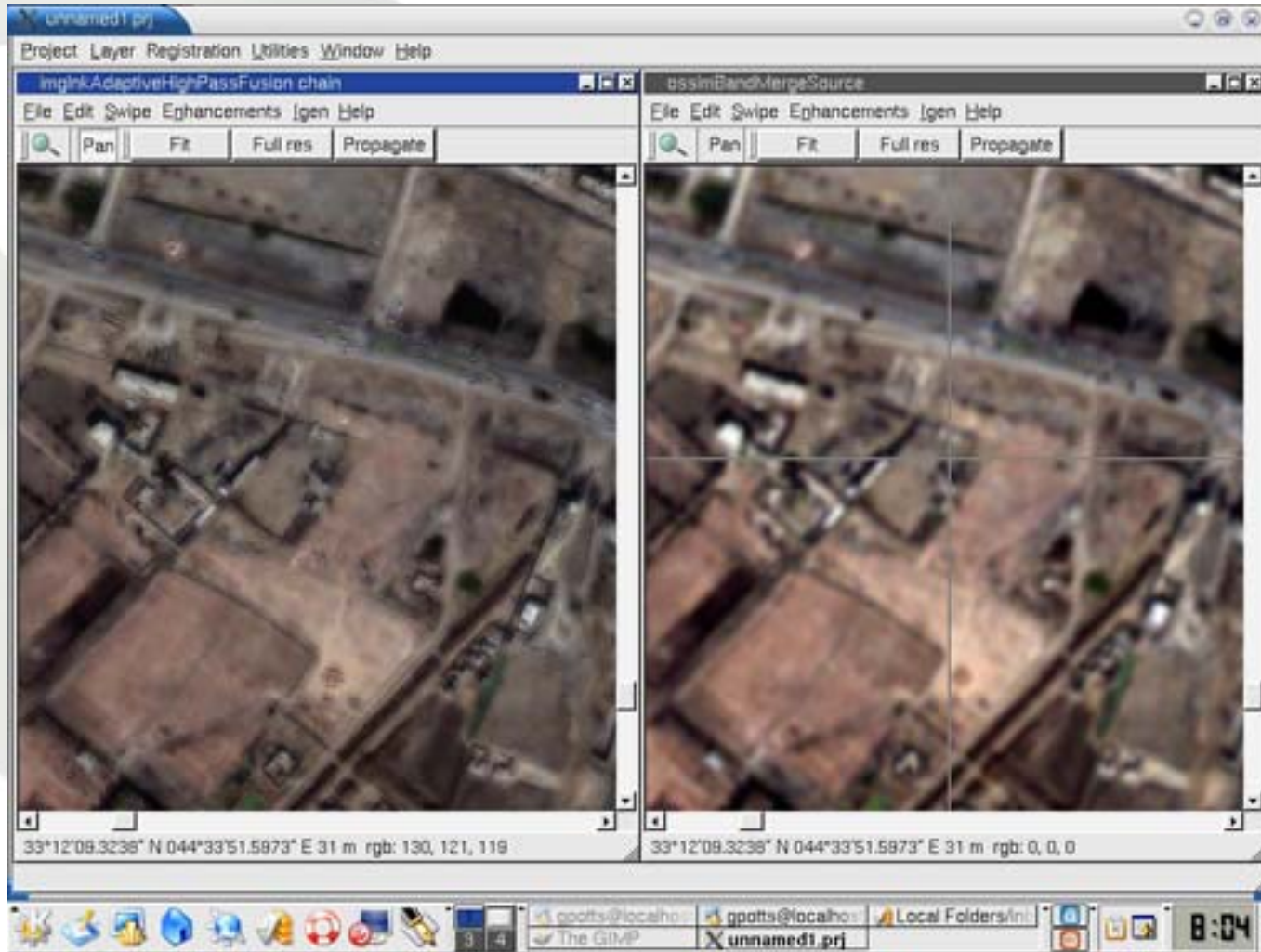


Mosaics and Histogram Matching



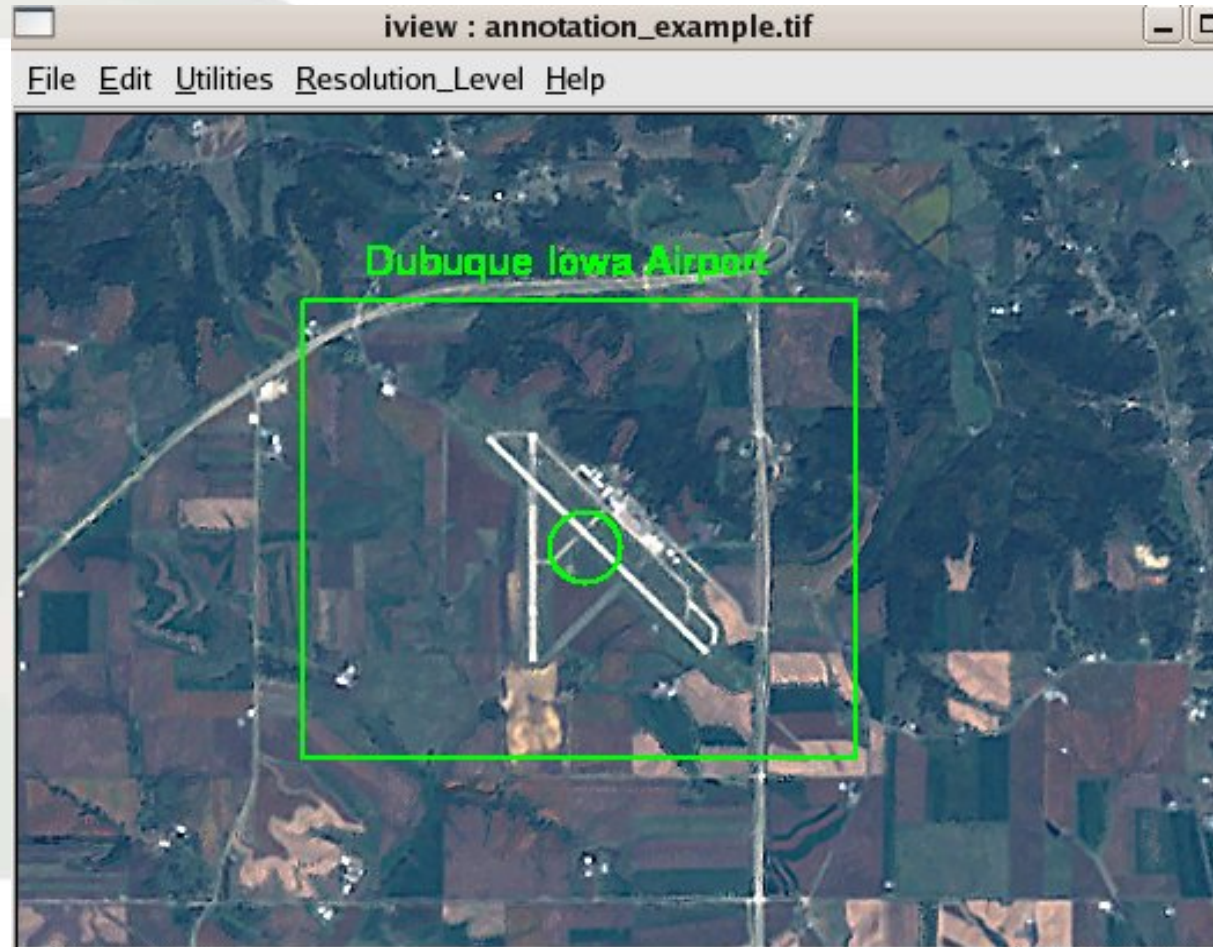


OSSIM



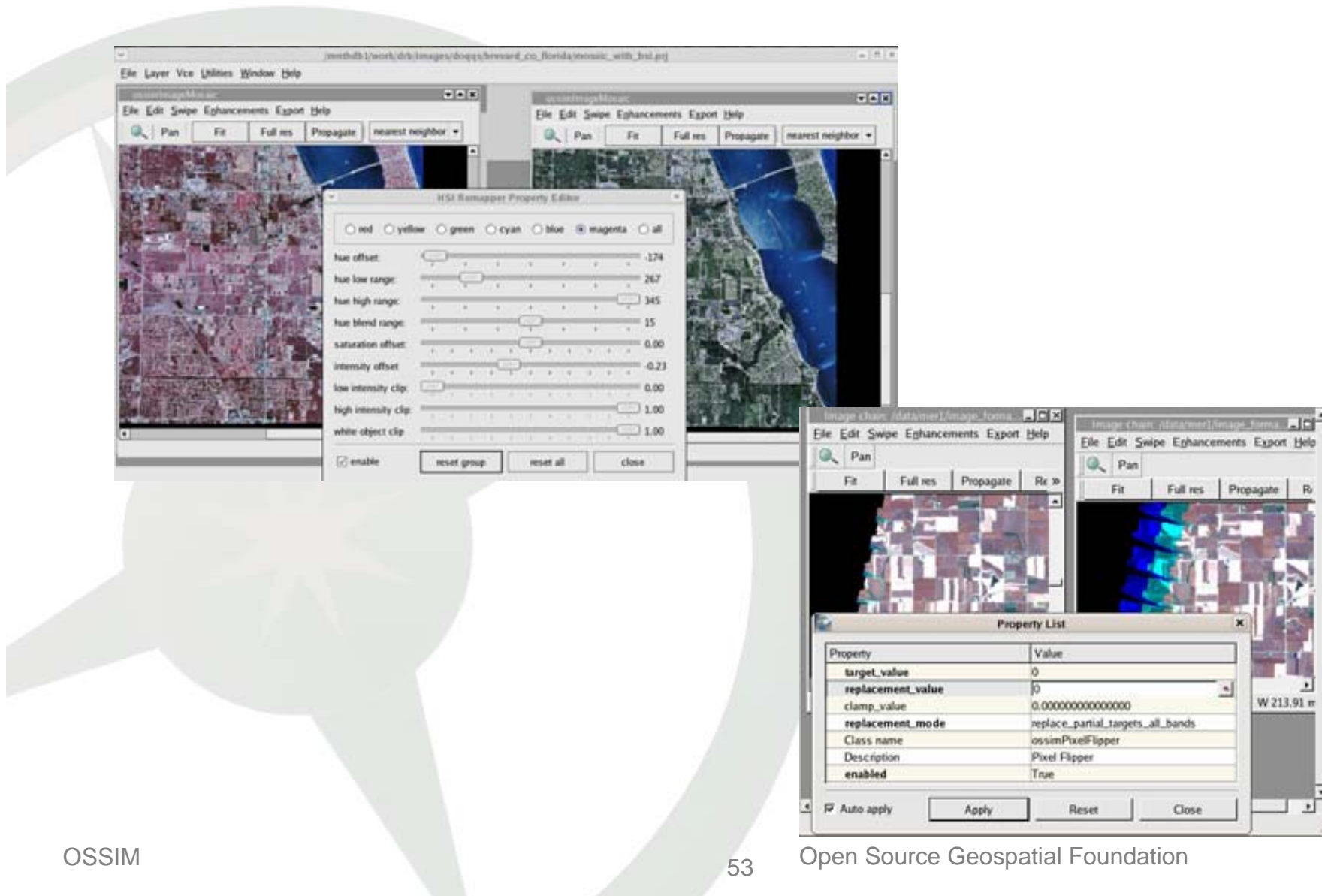


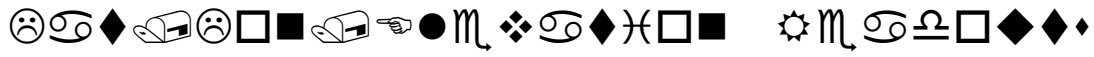
OSSIM



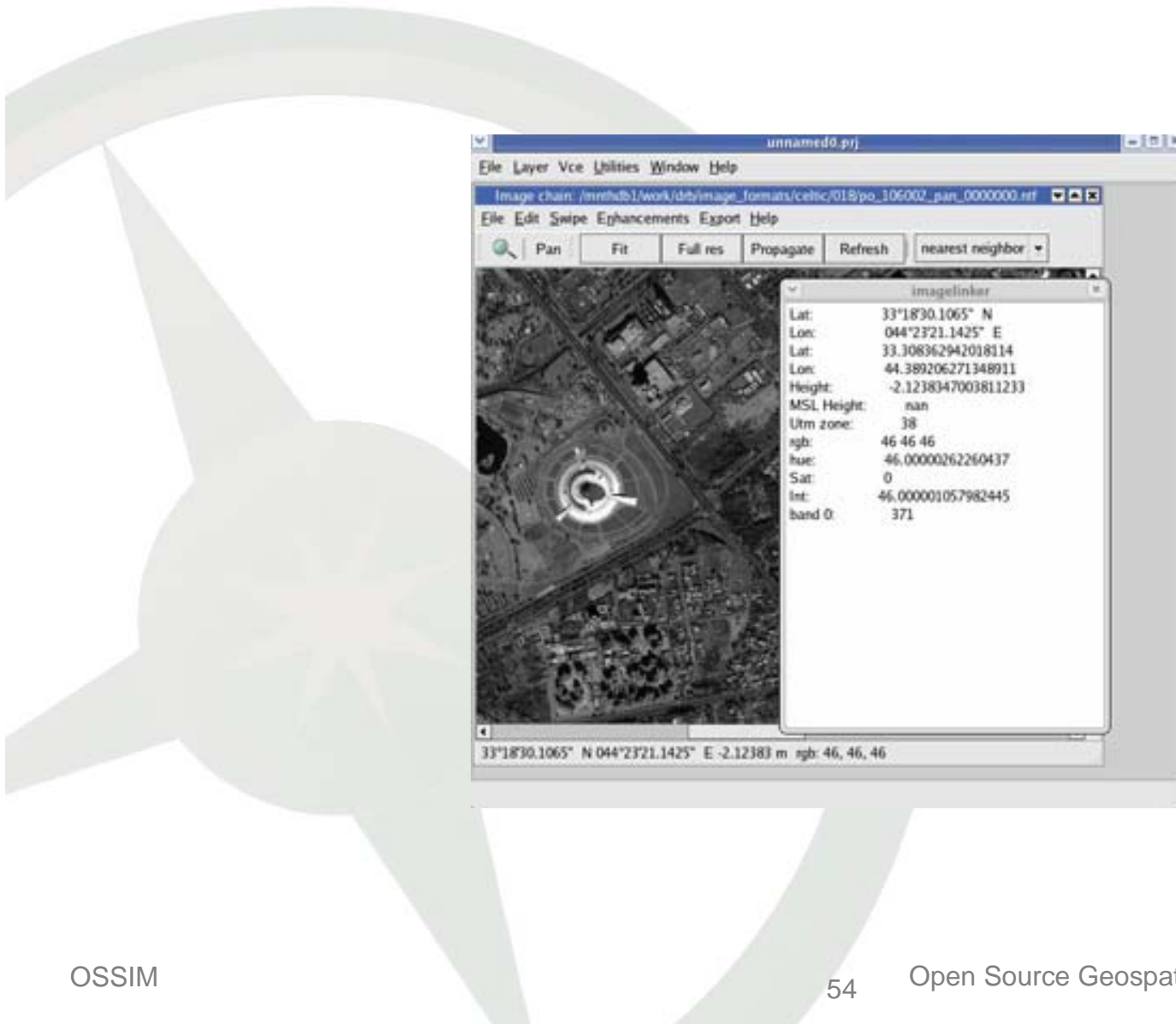


OSSIM





OSSIM



osgPlanet

Similar to Google Earth and NASA World Wind, main focus..

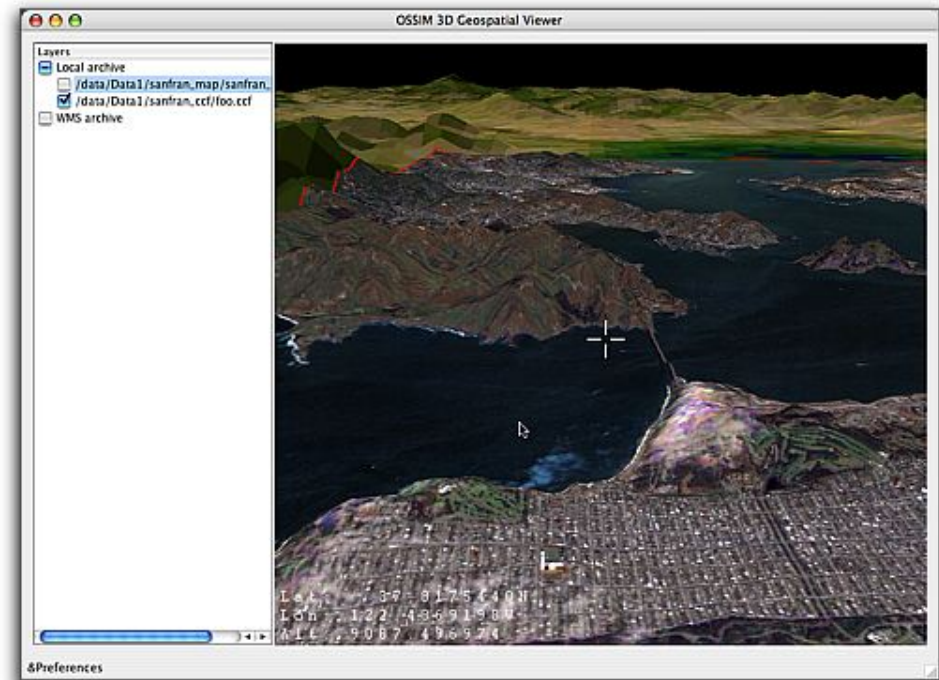
Open Source Software runs on multiple platforms

Photogrammetric Accuracy

Native file access, does not require precooked layers

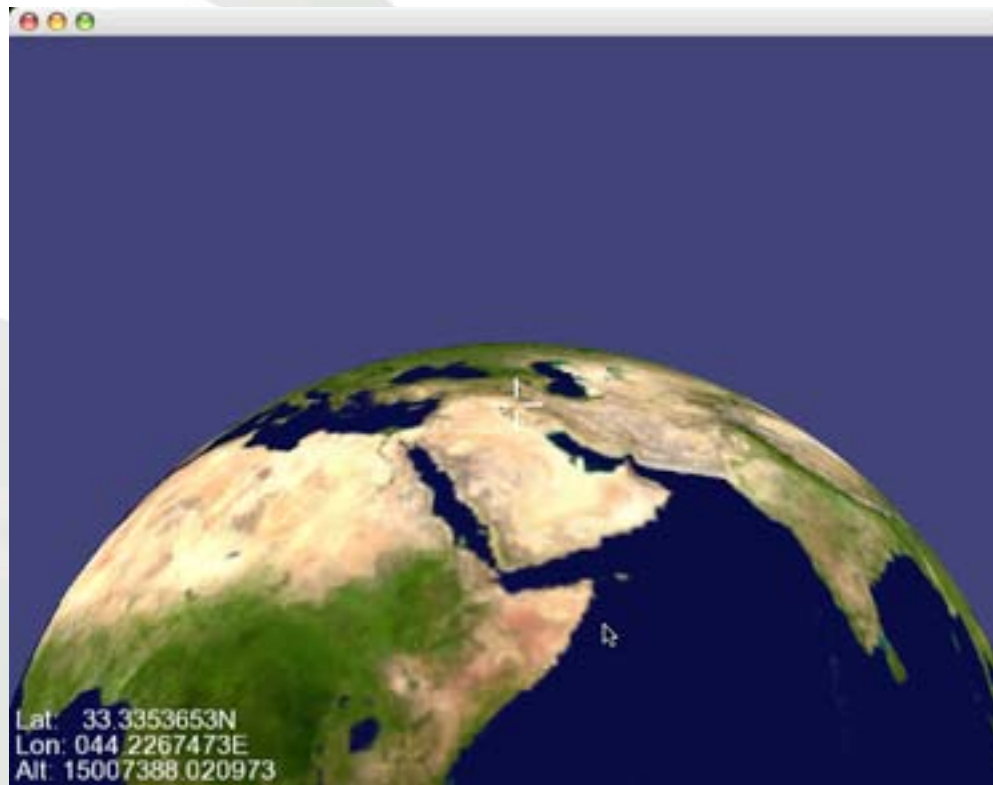
OGC WMS compliance for Distributed access

Builds on top of OSSIM and OpenSceneGraph



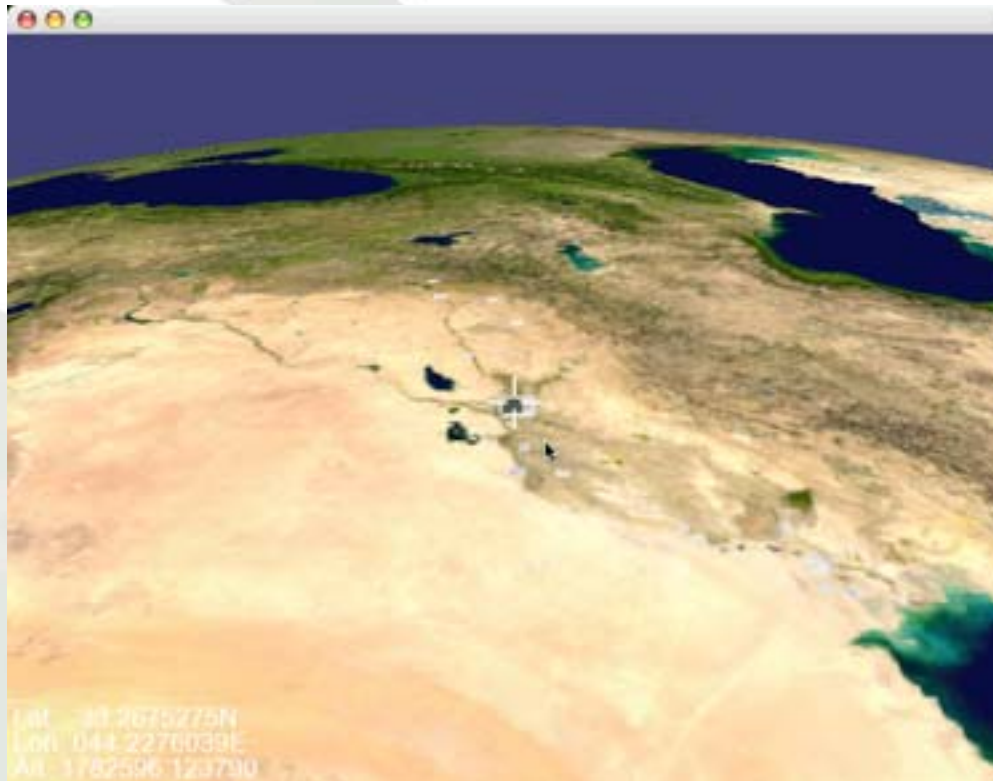
OSSIM

Advanced Visualization osgPlanet



OSSIM

Advanced Visualization osgPlanet



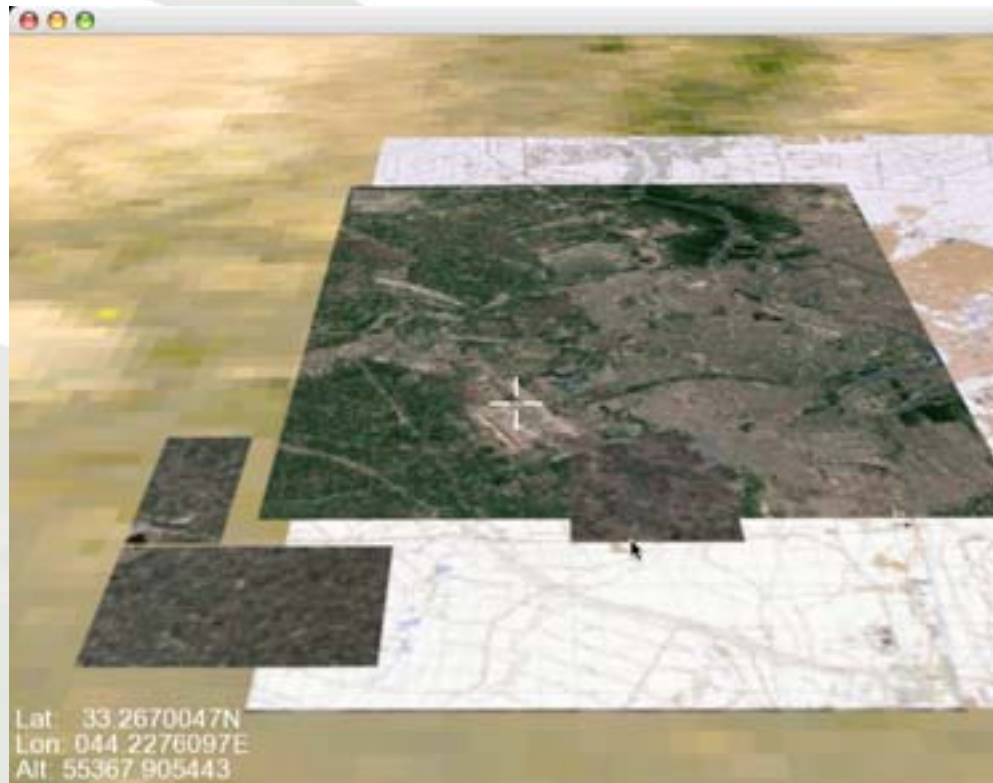
OSSIM

Advanced Visualization osgPlanet



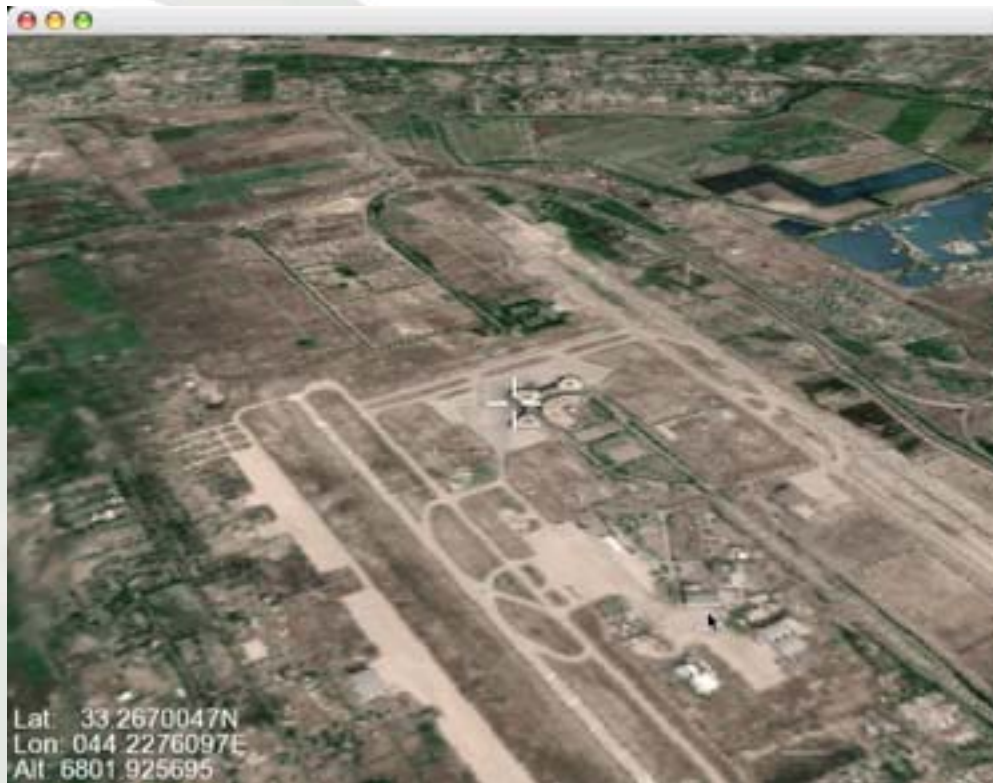
OSSIM

Advanced Visualization osgPlanet



OSSIM

Advanced Visualization osgPlanet

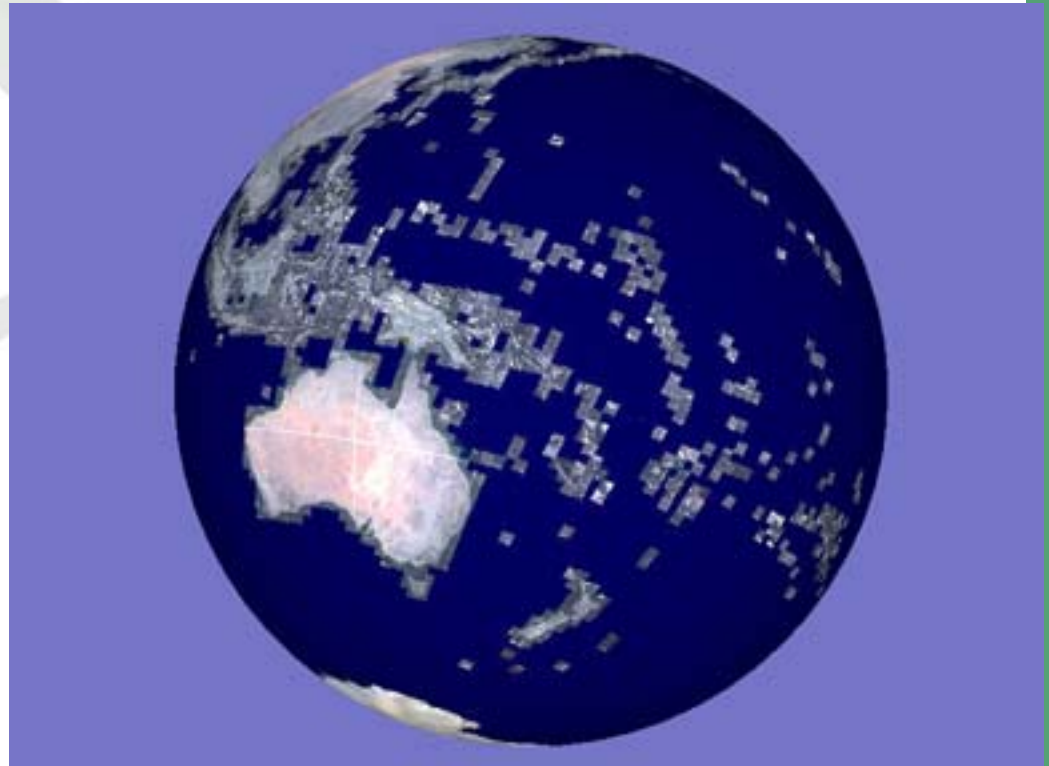


OSSIM

OGC Web Mapping Service Interface

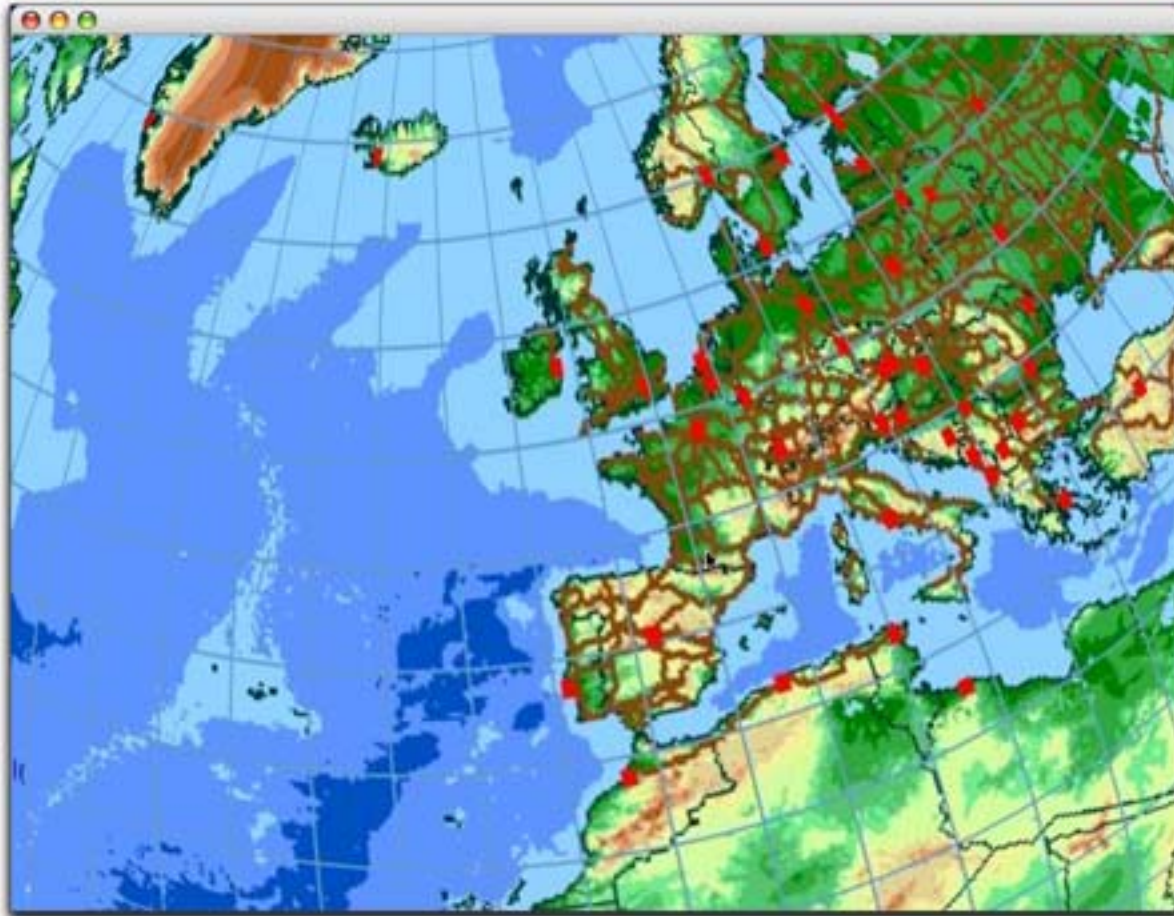


NASA JPL



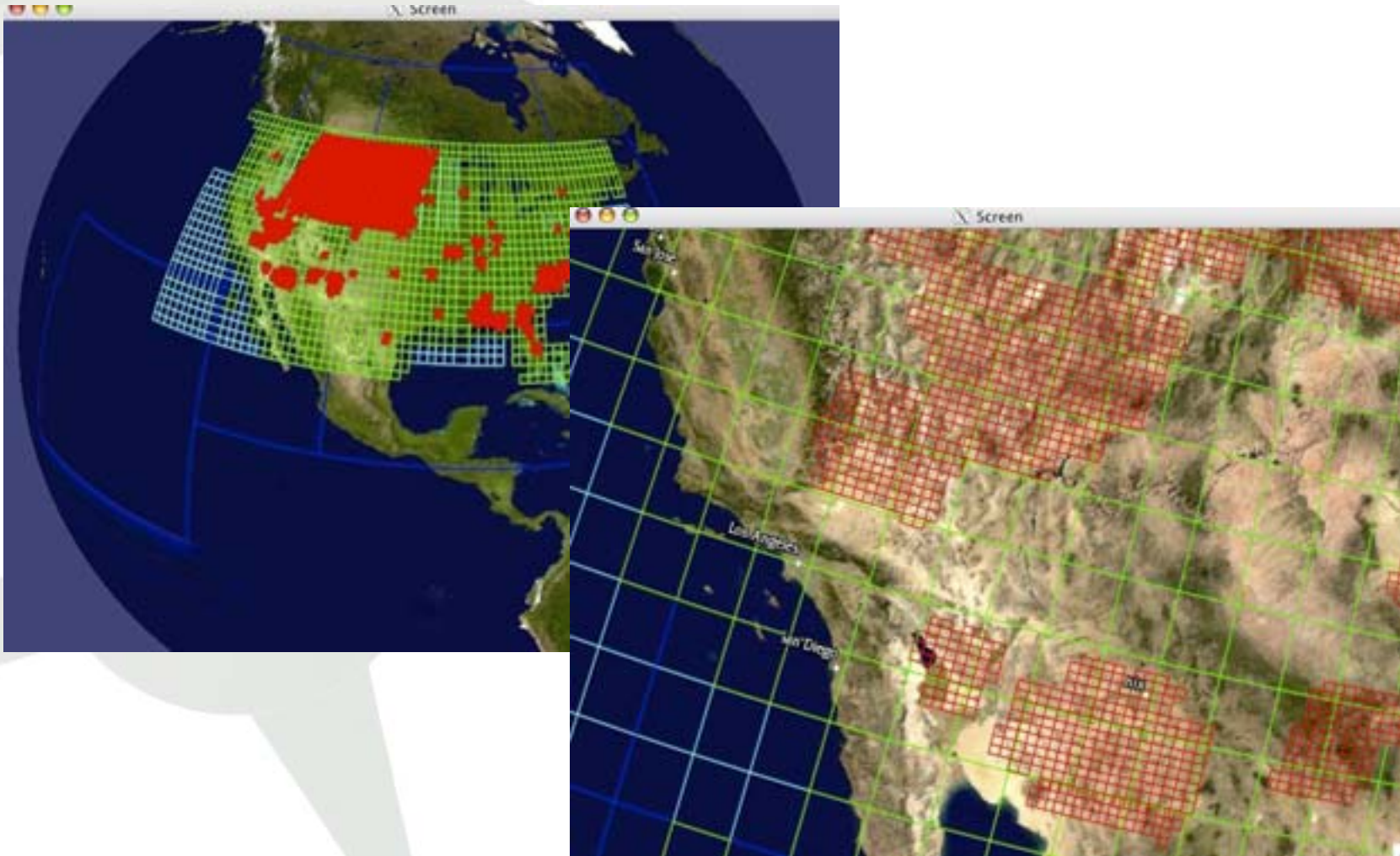
OSSIM

OGC Web Mapping Service Interface



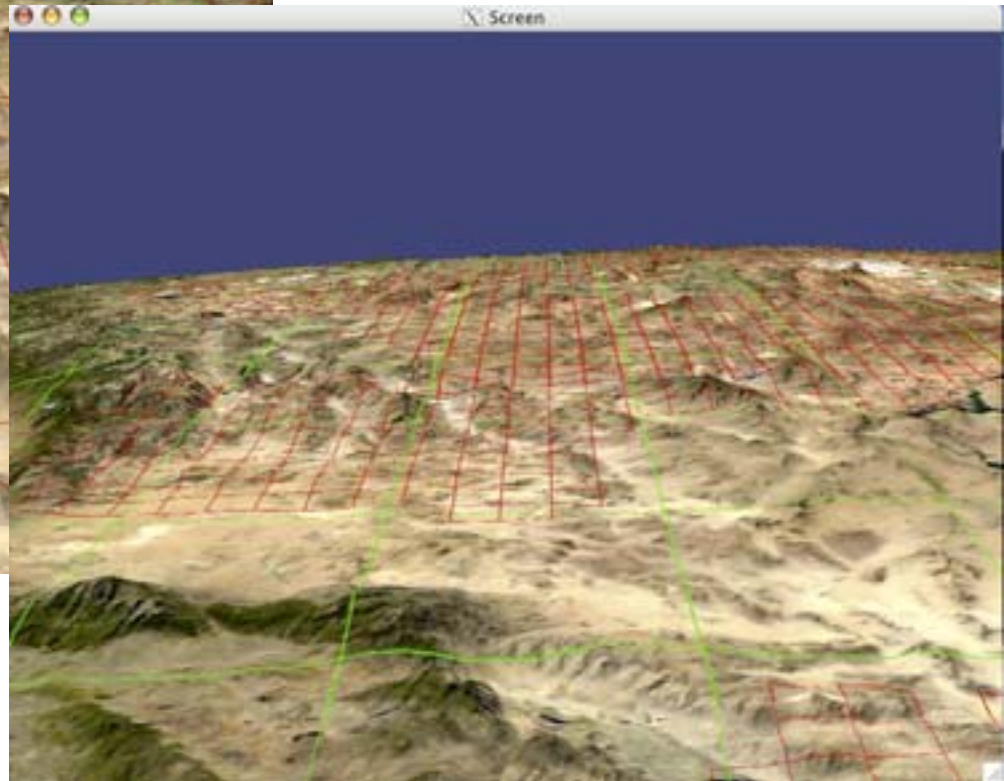
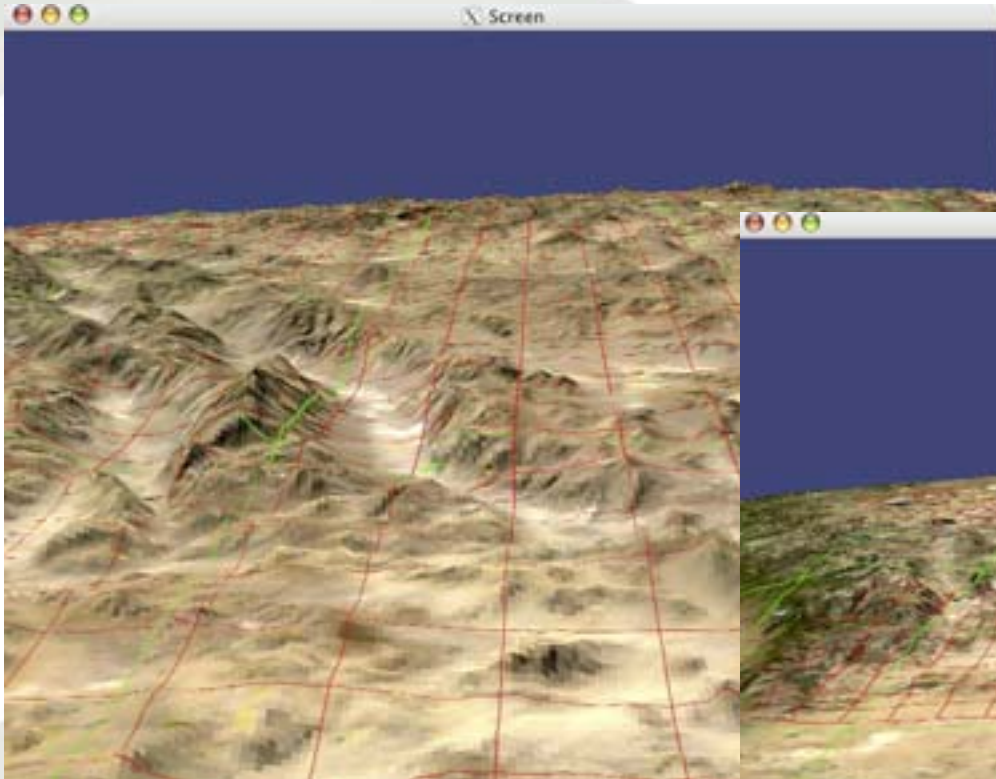
OSSIM

OGC Web Feature Service Interface



OSSIM

OGC Web Feature Service Interface



Open Technology Development Leverage

osgPlanet

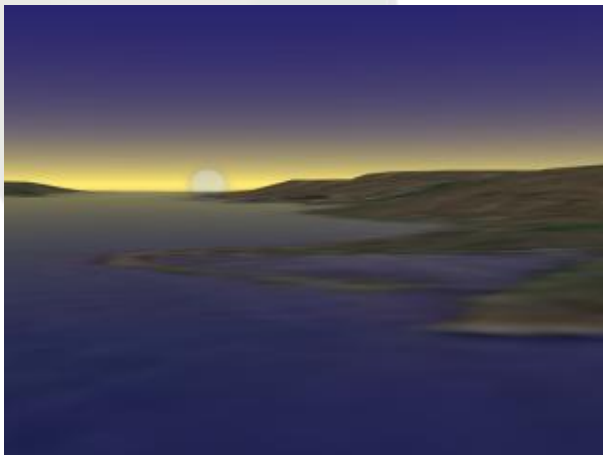
OSSIM
OpenSceneGraph
OGC WMS
World Wind Servers

NRL MOADB

Manipulators
Navigation
Hot Links
Algorithmic Improvements

osgEphemeris
QGIS
Delta3D

MapGuide
MapServer
GRASS
Postgres/PostGIS
GeoServer
uDig
OpenLayers
GeoRSS



OSSIM

OSSIM

Contact Info



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www.ossim.org