

My Experiments with FOSS

Gururaja KV

gururaj@cistup.iisc.ernet.in

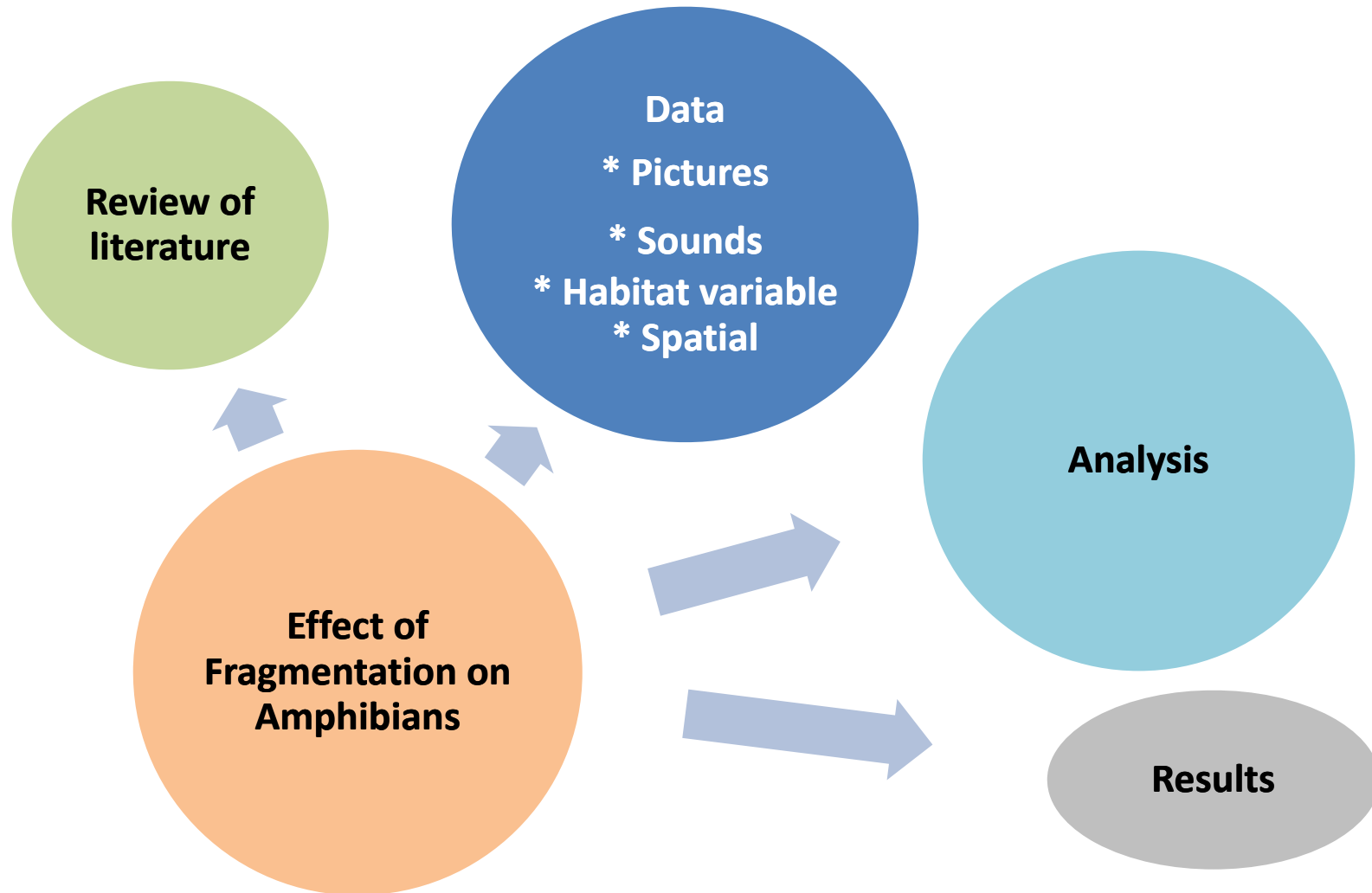
CiSTUP, IISc

My Experiments with FOSS as a USER!

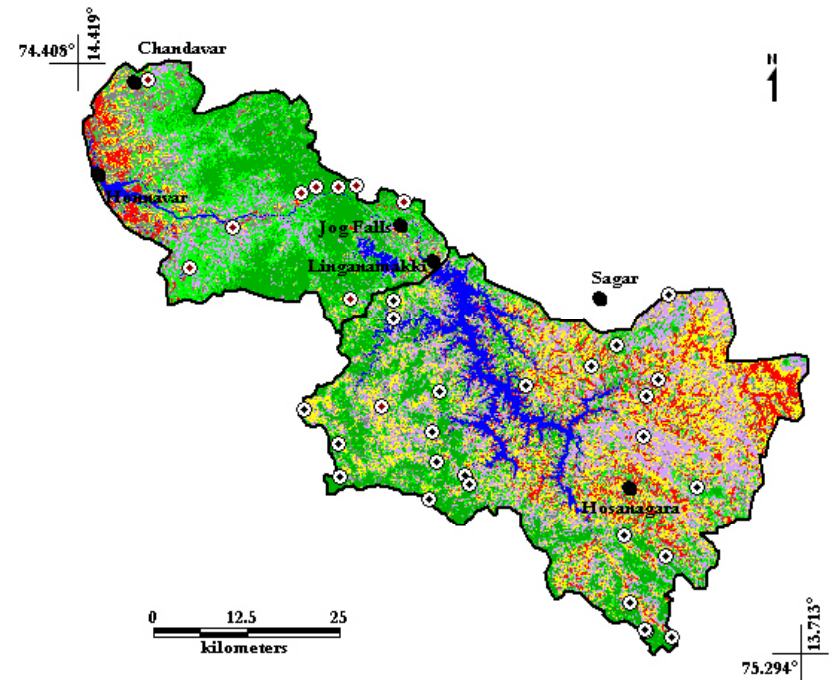
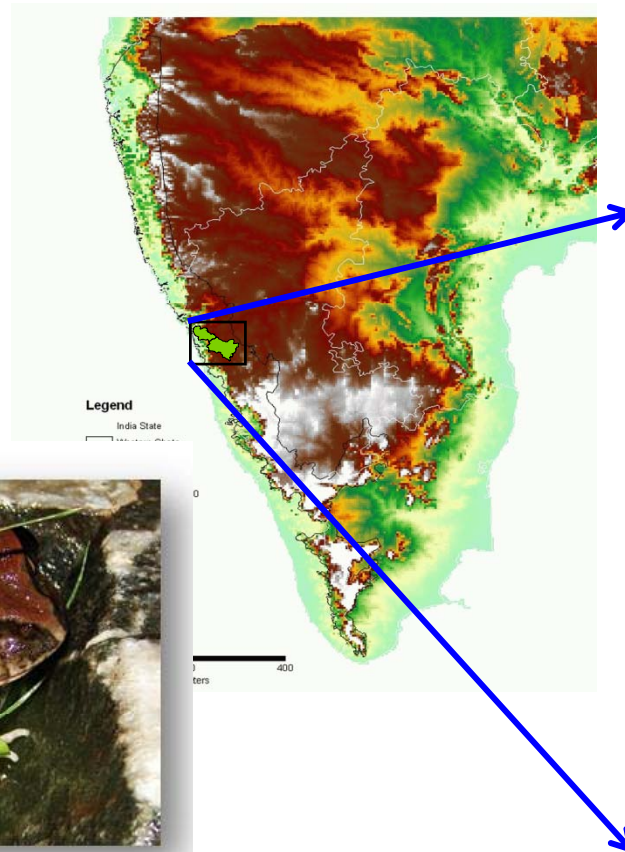
- Purely driven by objectives of the research! To lesser extent affordability...
- And of course...freeness of the software!
- Disclaimer: No advocacy of any particular software...try yourself and feel the difference!!!

Me and My Research

How to cope up with?



Frogs and Fragmentation



My Reference Editor

- JabRef <http://jabref.sourceforge.net/>



The screenshot shows the JabRef website homepage. At the top, the title "JabRef" is displayed in a large, dark blue serif font, with the subtitle "reference manager" in a smaller, brown italicized serif font to its right. Below the title is a horizontal navigation bar with links: Overview, FAQ, Documentation, Resources, Screenshots, History, Contact, and Download. The main content area is divided into two columns. The left column has a section titled "About" with a red underline. It contains three paragraphs: the first describes JabRef as an open source bibliography reference manager; the second describes BibTeX as an application and file format; the third discusses formatting bibliographies and mentions a searchable database of BibTeX style files. The right column contains three buttons: "Web Start" (run JabRef instantly), "Download" (latest stable version), and "Download" (current beta version). Below these is a "News" section with a list of dates and version numbers.

JabRef *reference manager*

[Overview](#) [FAQ](#) [Documentation](#) [Resources](#) [Screenshots](#) [History](#) [Contact](#) [Download](#)

About

JABREF is an open source bibliography reference manager. The native file format used by JABREF is BIBTEX, the standard LATEX bibliography format. JABREF runs on the Java VM (version 1.5 or newer), and should work equally well on Windows, Linux and Mac OS X.

BIBTEX is an application and a bibliography file format written by Oren Patashnik and Leslie Lamport for the LATEX document preparation system. [General information about BIBTEX.](#)

Bibliographies generated by LATEX and BIBTEX from a BIBTEX file can be formatted to suit any reference list specifications through the use of different BIBTEX style files. We support this initiative to build a searchable database of BIBTEX style files, organized by journal names: [LATEX bibliography style database.](#)

You can run JABREF instantly with Java Web Start: [Run JABREF.](#)

Web Start
run JabRef instantly

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News

November 1st, 2009
Version 2.6beta2

September 29th, 2009
Version 2.6beta

June 22th, 2009
Version 2.5

May 19th, 2009
Version 2.5beta2

Where to search for?

- <http://www.scholar.google.com>
- <http://www.sciencedirect.com>
- <http://www.jstor.com>
-

Google scholar [Advanced Scholar Search](#) [Scholar Preferences](#)

Scholar anytime include citations

[Effects of habitat loss and fragmentation on amphibians: a review and prospectus](#) - [fs.fed.us](#)
SA Cushman - *Biological Conservation*, 2006 - Elsevier
Habitat loss and **fragmentation** are among the largest threats to **amphibian** populations. However, most studies have not provided clear insights into their population-level implications. There is a critical need to investigate the ...
[Cited by 109](#) - [Related articles](#) - [All 9 versions](#)

[Influence of forest fragmentation on amphibian diversity in the nature reserve of ...](#)
D Vallan - *Biological Conservation*, 2000 - Elsevier
In Ambohitantely the rainforest is divided distinctly by pseudosteppe into more than 500 fragments. The **amphibian** faunas of seven such fragments varying in size from 0.16 to 1250 ha were examined. Twenty-eight **amphibian** species of two ...
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? search tips Journal/book title Volume Issue Page Clear

Reach 50,000
Publish in JNP

2,484 articles found for: ALL(Fragmentation amphibians)

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☒ = Full-text available ☐ = Abstract only

Search Within Results:

Refine Results

Content Type

☐ Journal (2,341)

☐ Book (446)

Journal/Book Title

☐ Biological Conservation (331)

☐ International Review of Cytology (112)

☐ Molecular Phylogenetics and Evolution (85)

☐ Landscape and Urban Planning (75)

☐ Developmental Biology (73)

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1. ☒ **Effects of habitat loss and fragmentation on amphibians: A review at**
Biological Conservation, Volume 128, Issue 2, March 2006, Pages 231
Samuel A. Cushman
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2. ☒ **Influence of forest fragmentation on amphibian diversity in the nature re**
Biological Conservation, Volume 96, Issue 1, November 2000, Pages 31-4
Denis Vallan
[Preview](#) [Purchase PDF \(661 K\)](#) [Related Articles](#)

3. ☒ **Patch and landscape characteristics associated with the distribution of**
information-theoretic approach
Biological Conservation, Volume 115, Issue 3, February 2004, Pages 443-
Shauna L. Weyrauch, Thomas C. Grubb Jr.
[Preview](#) [Purchase PDF \(206 K\)](#) [Related Articles](#)

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NEWS & NOTICES

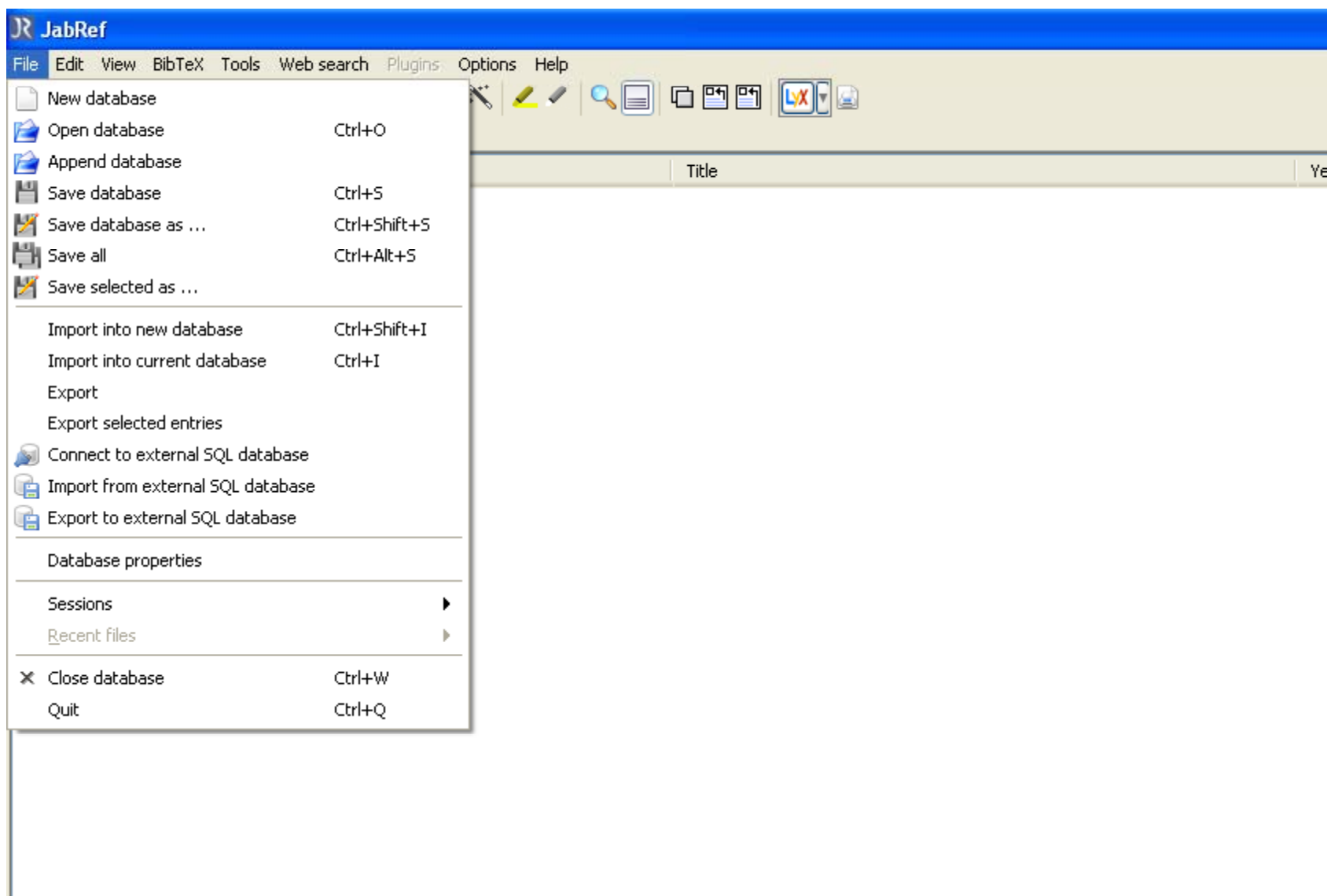
- University of Illinois Press Joins Current Scholarship Program
- New Collection Announced: *Arts & Sciences VIII*
- Learn More: [Webinars on JSTOR](#)
- [Upcoming Events](#)

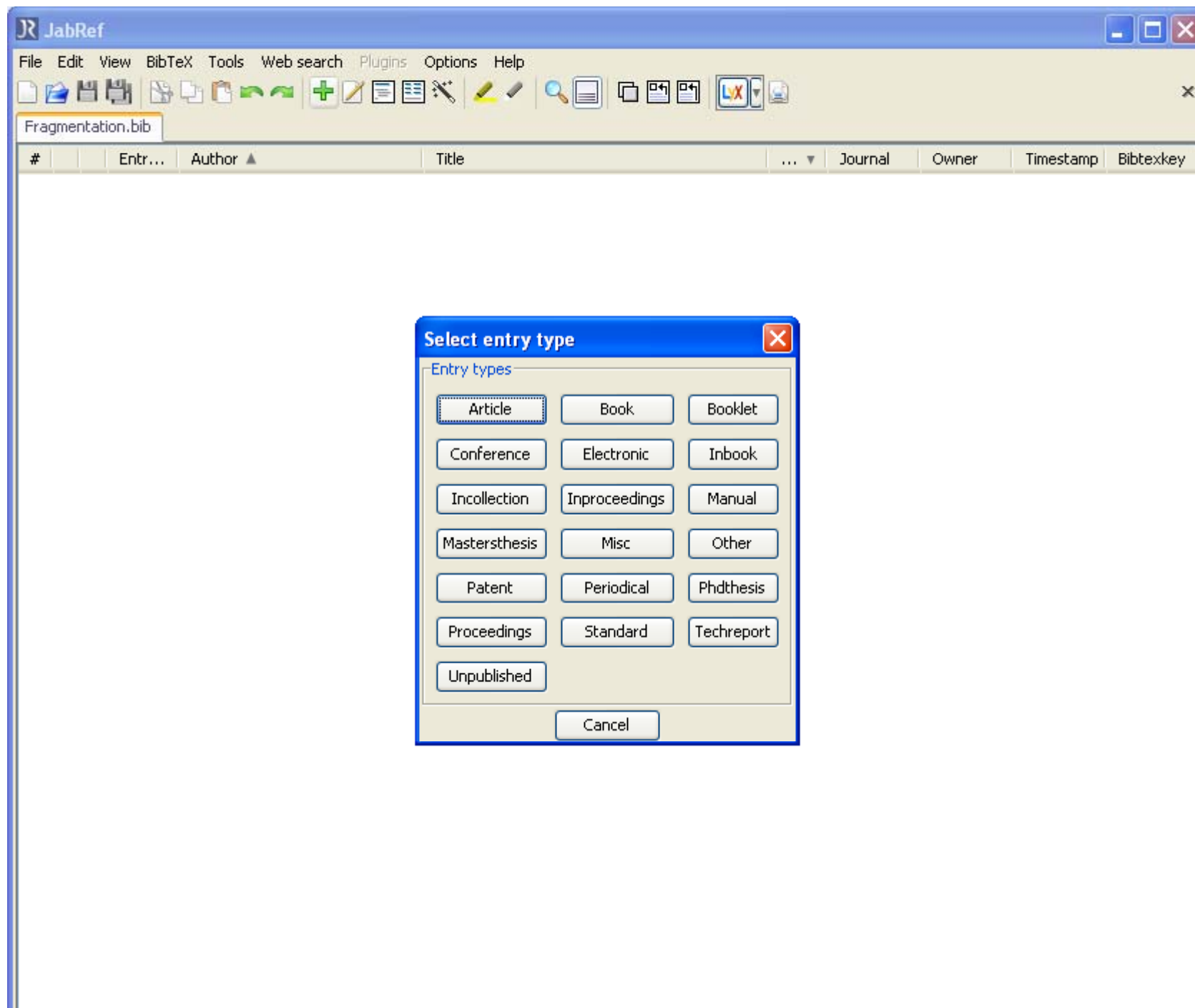
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JabRef

File Edit View BibTeX Tools Web search Plugins Options Help

Fragmentation.bib*

#	Entr...	Author ▲	Title	...	Journal	Owner	Timestamp	Bibtexkey
1	Article	SD and F	Systematics and phylogeny of Philautus G...	2009	Zoologic...	Dr. Gurur...	2009.11.16	SD2009

Article

Required fields

Optional fields

General

Abstract

Review

BibTeX source

Author

Biju SD and Bossuyt F

Manage

Title

Systematics and phylogeny of Philautus Gistel, 1848 (Anura, Rhacophoridae) in the Western Ghats of India, with descriptions of 12 new species

Journal

Zoological Journal of the Linnean Society

Manage

Toggle abbreviation

Year

2009

Volume

155

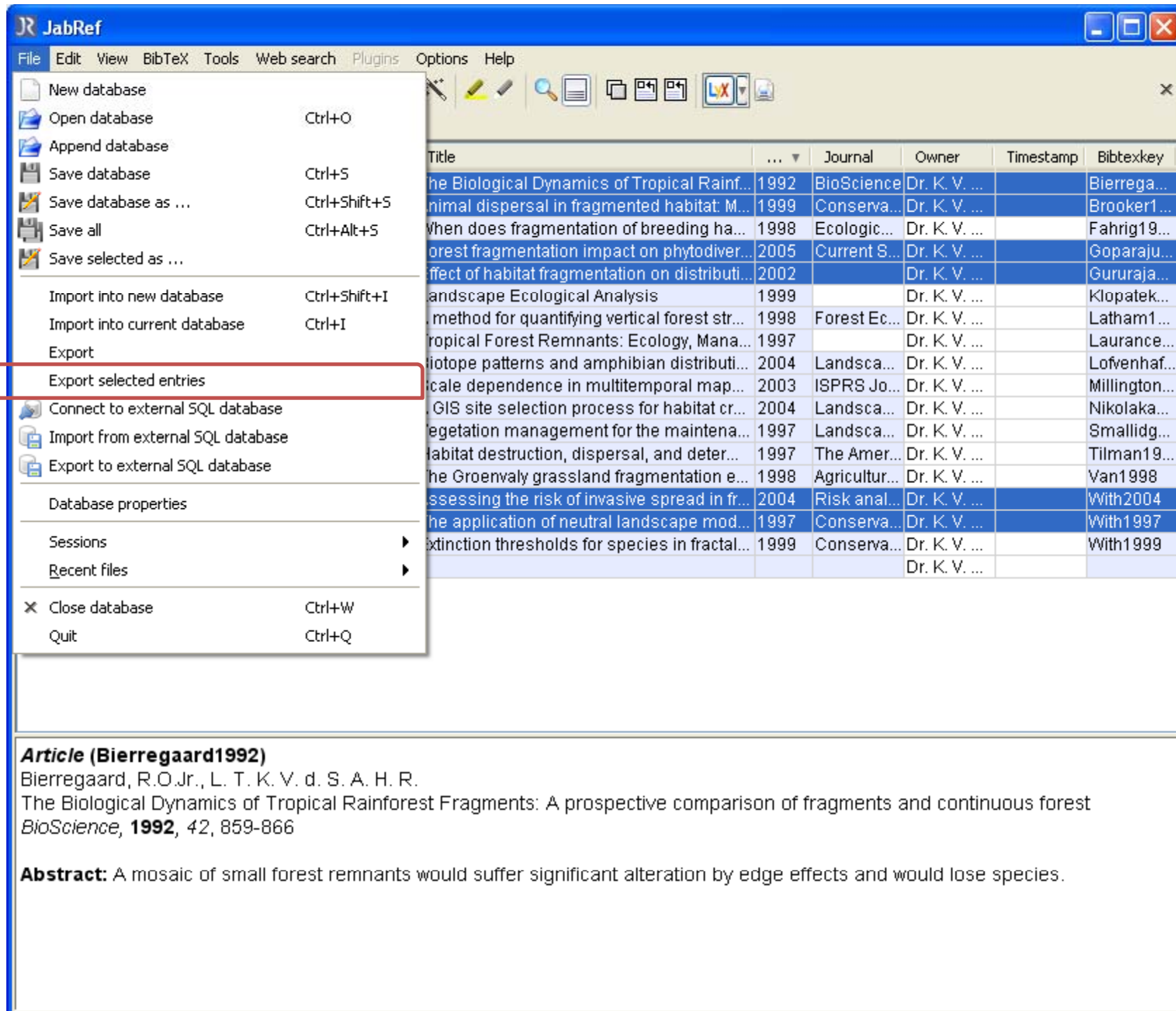
Pages

374-444

Bibtexkey

SD2009

JabRef									
File Edit View BibTeX Tools Web search Plugins Options Help									
Fragmentation.bib*									
#		Entr...	Author ▲	Title	...	Journal	Owner	Timestamp	Bibtexkey
1		Article	Bierregaard	The Biological Dynamics of Tropical Rainf...	1992	BioScience	Dr. K. V. ...		Bierrega...
2		Article	Brooker	Animal dispersal in fragmented habitat: M...	1999	Conserva...	Dr. K. V. ...		Brooker1...
3		Article	Fahrig	When does fragmentation of breeding ha...	1998	Ecologic...	Dr. K. V. ...		Fahrig19...
4		Article	Goparaju and C.S.	Forest fragmentation impact on phytodiver...	2005	Current S...	Dr. K. V. ...		Goparaju...
5		Phdth...	Gururaja	Effect of habitat fragmentation on distributi...	2002		Dr. K. V. ...		Gururaja...
6		Book	Klopatek and Gardner	Landscape Ecological Analysis	1999		Dr. K. V. ...		Klopatek...
7		Article	Latham and Coble	A method for quantifying vertical forest str...	1998	Forest Ec...	Dr. K. V. ...		Latham1...
8		Book	Laurance and Richard O. Bie...	Tropical Forest Remnants: Ecology, Mana...	1997		Dr. K. V. ...		Laurance...
9		Article	Lofvenhaft	Biotope patterns and amphibian distributi...	2004	Landsca...	Dr. K. V. ...		Lofvenhaf...
10		Article	Millington and Bradley	Scale dependence in multitemporal map...	2003	ISPRS Jo...	Dr. K. V. ...		Millington...
11		Article	Nikolaki	A GIS site selection process for habitat cr...	2004	Landsca...	Dr. K. V. ...		Nikolaka...
12		Article	Smallidge and Leopold	Vegetation management for the maintena...	1997	Landsca...	Dr. K. V. ...		Smallidg...
13		Article	Tilman and Yin	Habitat destruction, dispersal, and deter...	1997	The Amer...	Dr. K. V. ...		Tilman19...
14		Article	Van Jaarsveld and Bredenka...	The Groenvaly grassland fragmentation e...	1998	Agricultur...	Dr. K. V. ...		Van1998
15		Article	With	Assessing the risk of invasive spread in fr...	2004	Risk anal...	Dr. K. V. ...		With2004
16		Article	With	The application of neutral landscape mod...	1997	Conserva...	Dr. K. V. ...		With1997
17		Article	With and King	Extinction thresholds for species in fractal...	1999	Conserva...	Dr. K. V. ...		With1999
18		Article					Dr. K. V. ...		



JabRef

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Fragmentation.bib*

#	Entr...	Author ▲	Title	...	Journal	Owner	Timestamp	Bibtexkey
1	Article	Bierregaard	The Biological Dynamics of Tropical Rainf...	1992	BioScience	Dr. K. V. ...		Bierrega...
2	Article	Brooker	Animal dispersal in fragmented habitat: M...	1999	Conserva...	Dr. K. V. ...		Brooker1...
3	Article	Fa						Fahrig19...
4	Article	Go						Goparaju...
5	Phdth...	Gu						Gururaja...
6	Book	Kl						Klopatek...
7	Article	La						Latham1...
8	Book	La						Laurance...
9	Article	Lo						Lofvenhaf...
10	Article	Mi						Millington...
11	Article	Ni						Nikolaka...
12	Article	Sr						Smallidg...
13	Article	Til						Tilman19...
14	Article	Va						Van1998
15	Article	Wi						With2004
16	Article	Wi						With1997
17	Article	Wi						With1999
18	Article							

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Save in: Dr. Gururaja K V

My Recent Documents

Desktop

My Documents

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.image850

.omgui

.qgis

Application Data

Bluetooth Software

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Favorites

IECompatCache

IETIdCache

Local Settings

My Documents

NetHood

Praat

PrintHood

PrivacIE

My Recent Documents

SendTo

Start Menu

Templates

UserData

WINDOWS

File name: Habitat fragmentation

Files of type: Simple HTML (*.html)

HTML (*.html)

HTML table (*.html)

HTML table (with Abstract & BibTeX) (*.html)

Harvard RTF (*.rtf)

MIS Quarterly (*.rtf)

MODS (*.xml)

MS Office 2007 (*.xml)

MySQL database (*.sql)

Save

Cancel

Article (Bierregaard, R.O.Jr.)
 Bierregaard, R.O.Jr.
 The Biological Dynamics of Tropical Rainforests
BioScience, 1992, 42, 859-866

Abstract: A mosaic of small forest remnants would lose species.

article(Bierregaard1992)

Bierregaard, R.O.Jr., L.T.K.V. d.S.A.H.R.

The Biological Dynamics of Tropical Rainforest Fragments: A prospective comparison of fragments and continuous forest
BioScience, **1992**, Vol. 42(11), pp. 859-866

article(Brooker1999)

Brooker, L., B.M.C.P.

Animal dispersal in fragmented habitat: Measuring habitat connectivity, corridor use, and dispersal mortality.
Conservation Ecology (Online), **1999**, Vol. 3(1), pp. 4

article(Goparaju2005)

Goparaju, L., T.A. & C.S., J.

Forest fragmentation impact on phytodiversity - An analysis using remote sensing and GIS
Current Science, **2005**, Vol. 88(8), pp. 1264-1274

phdthesis(Gururaja2002)

Gururaja, K.V.

Effect of habitat fragmentation on distribution and ecology of anurans in some parts of western Ghats.
Kuvempu University, **2002**

article(With2004)

With, K.

Assessing the risk of invasive spread in fragmented landscapes
Risk analysis, **2004**, Vol. 24(4), pp. 803-815

article(With1997)

With, K.

The application of neutral landscape models in conservation biology
Conservation Biology, **1997**, Vol. 11(5), pp. 1069-1080

ScienceDirect - Search Results: ALL(Fragmentation amphibians) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&_ArticleListID=1093853325&

ScienceDirect - Search Results: ALL(...)

Quick Search All fields Fragmentation amphibians Author

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2,484 articles found for: ALL(Fragmentation amphibians) previous page < results 1 - 100 > next page

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Search Within Results: Search

Refine Results Limit To Exclude

Content Type

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☐ Book (446)

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http://www.zotero.org/documentation/quick_start_guide

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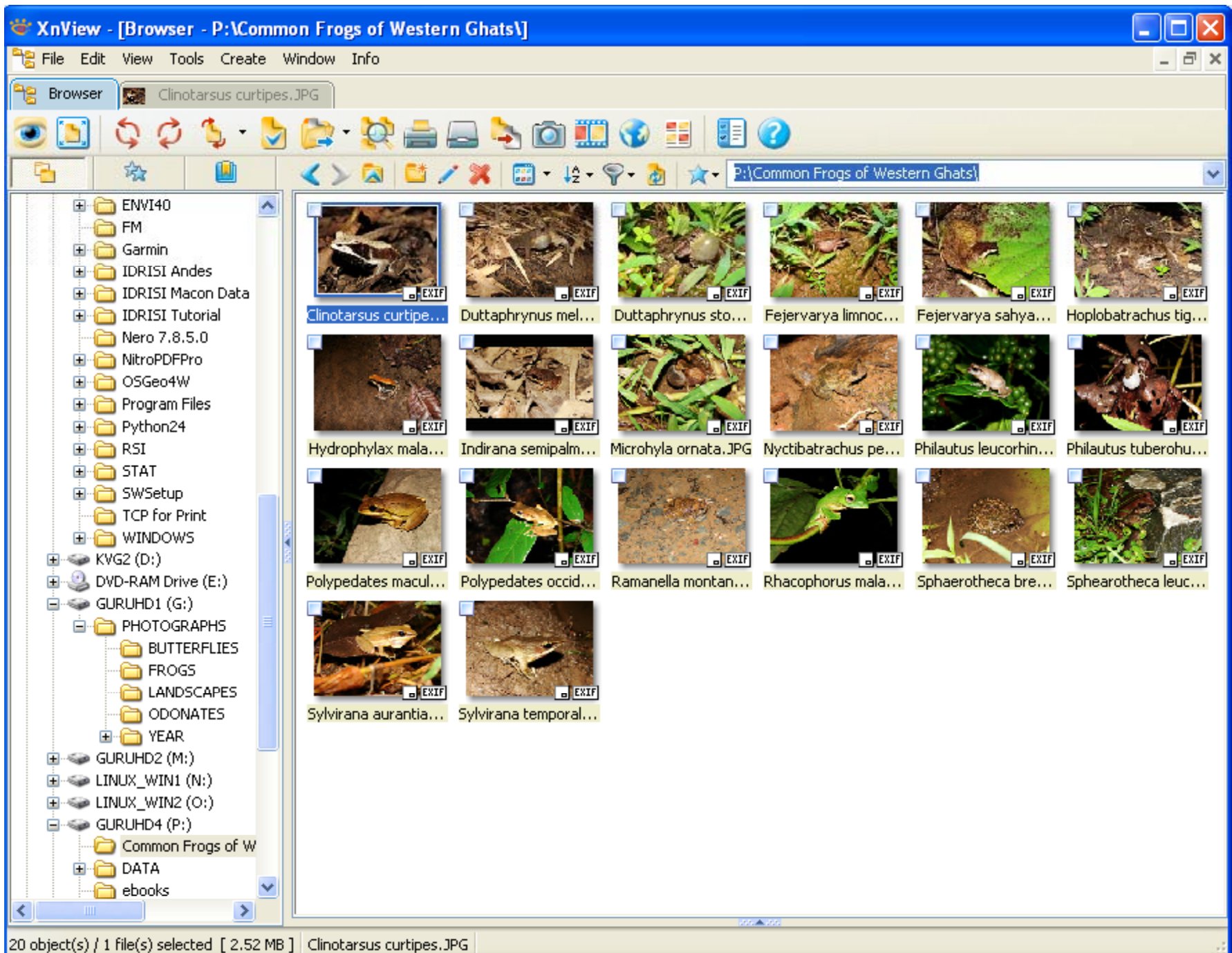
Done

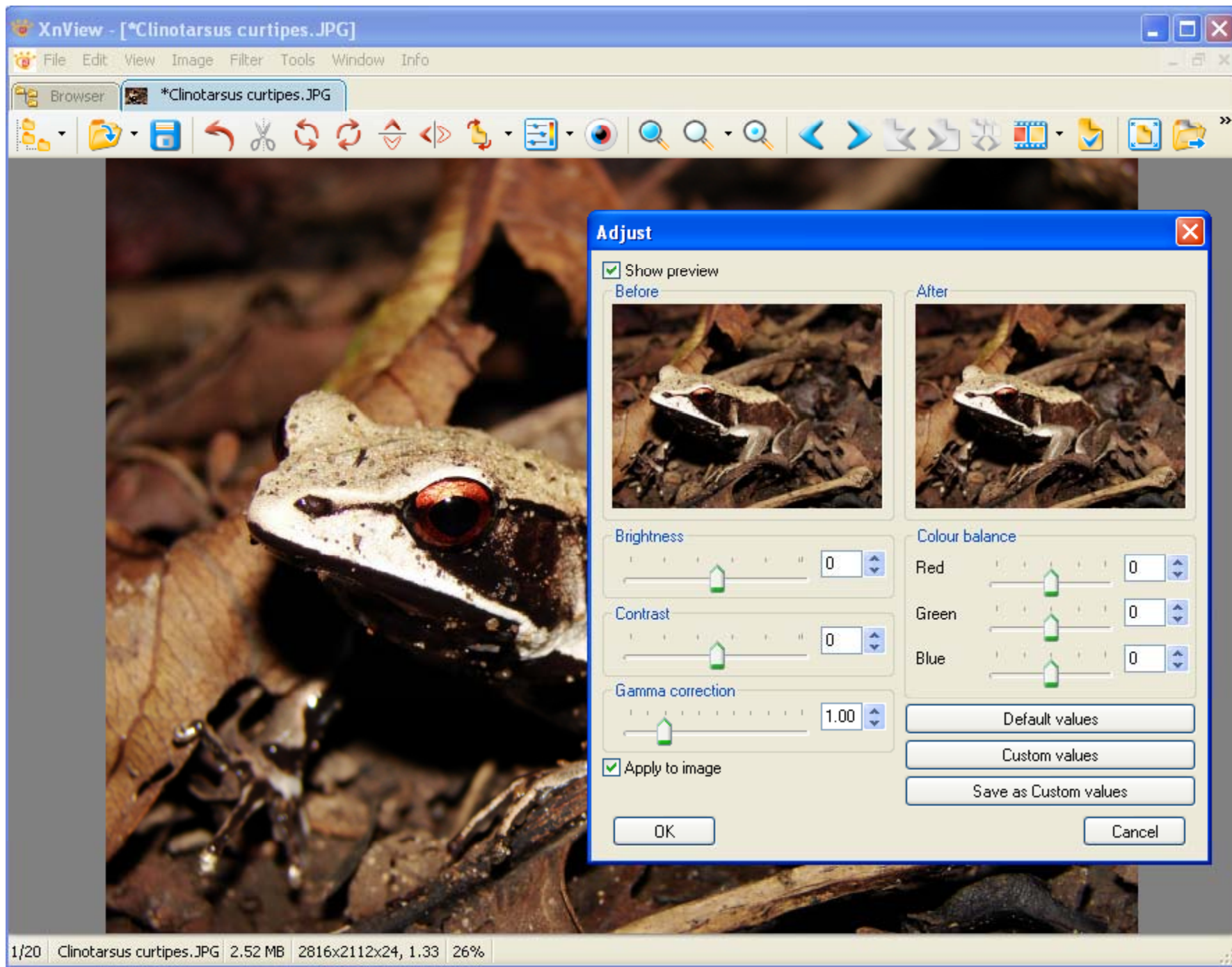
zotero

My Image Editor

- XnView www.xnview.com

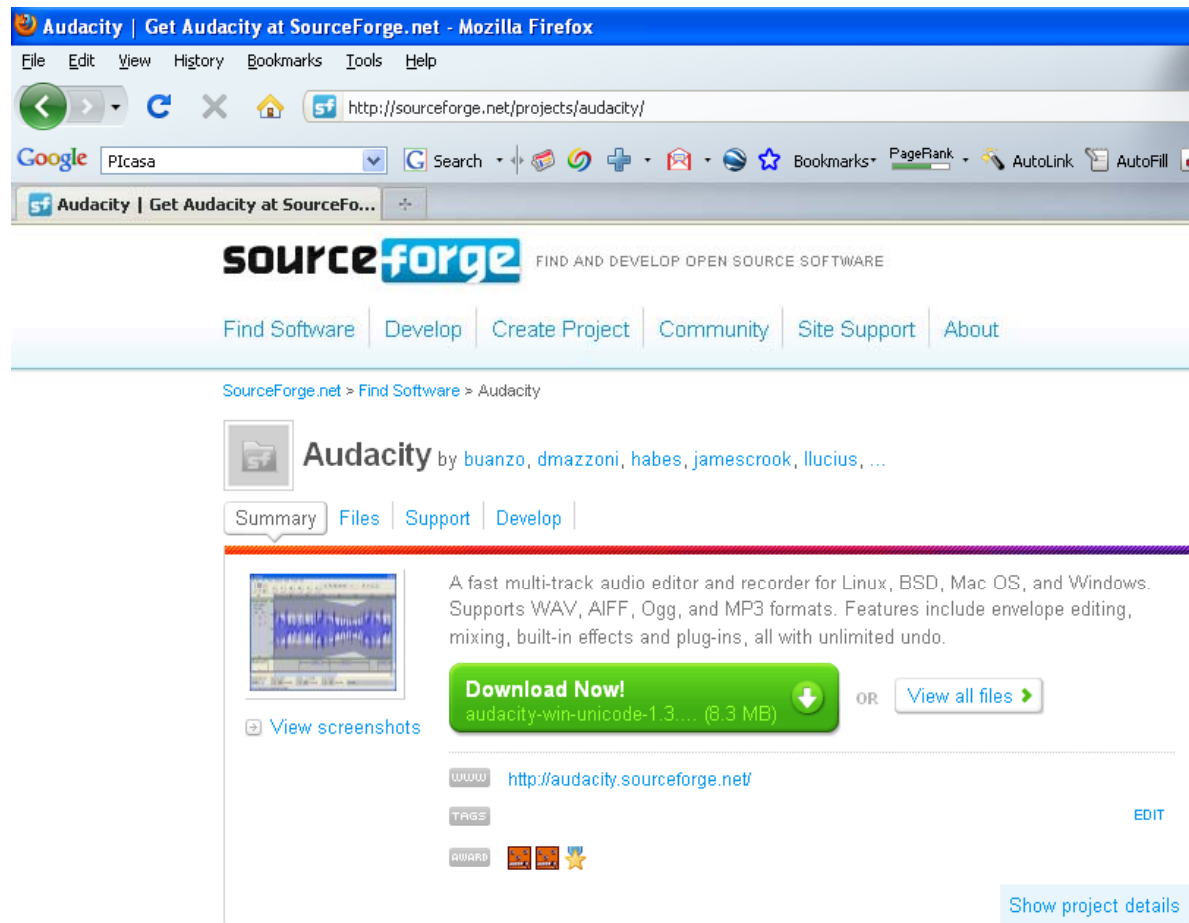


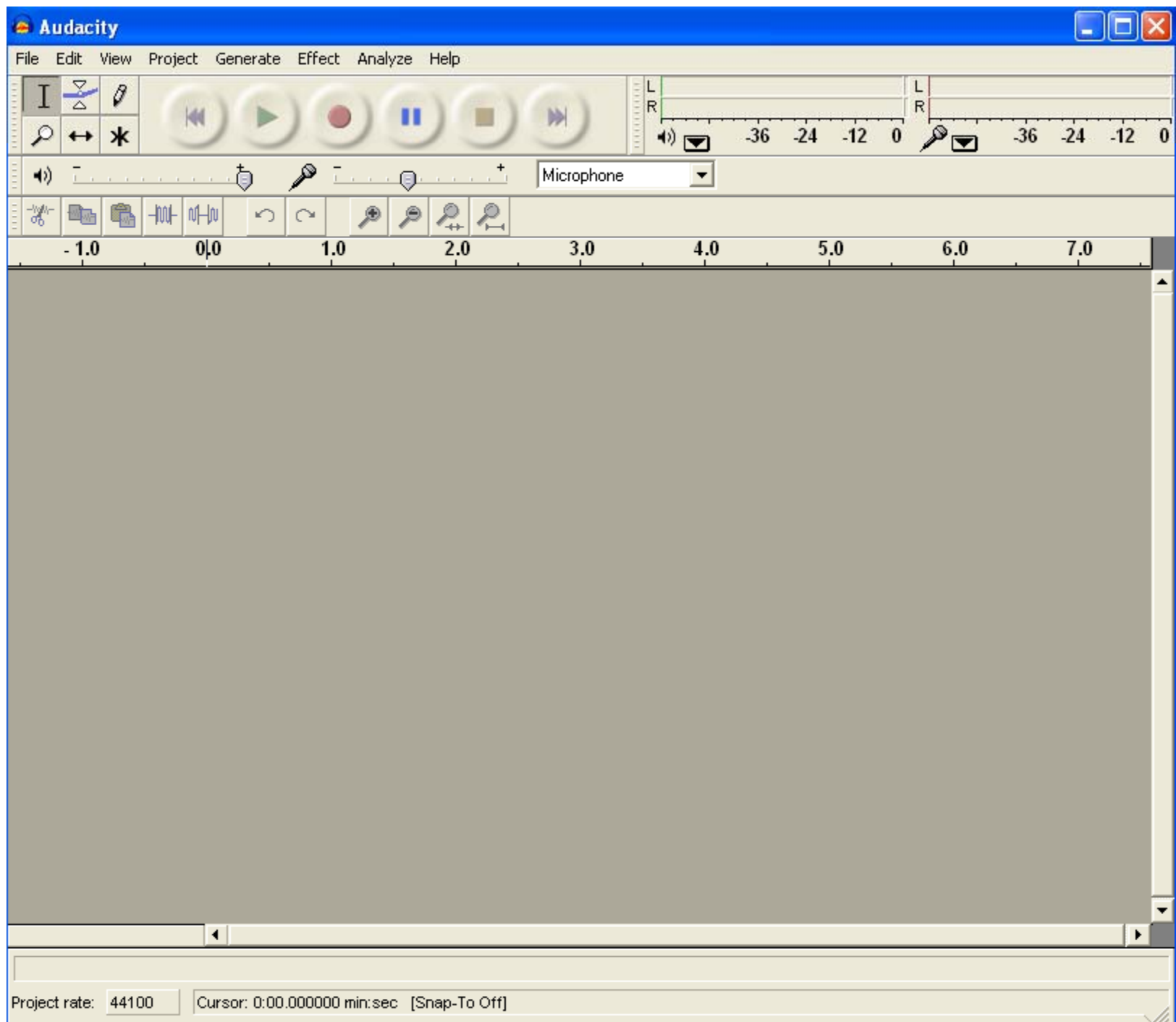


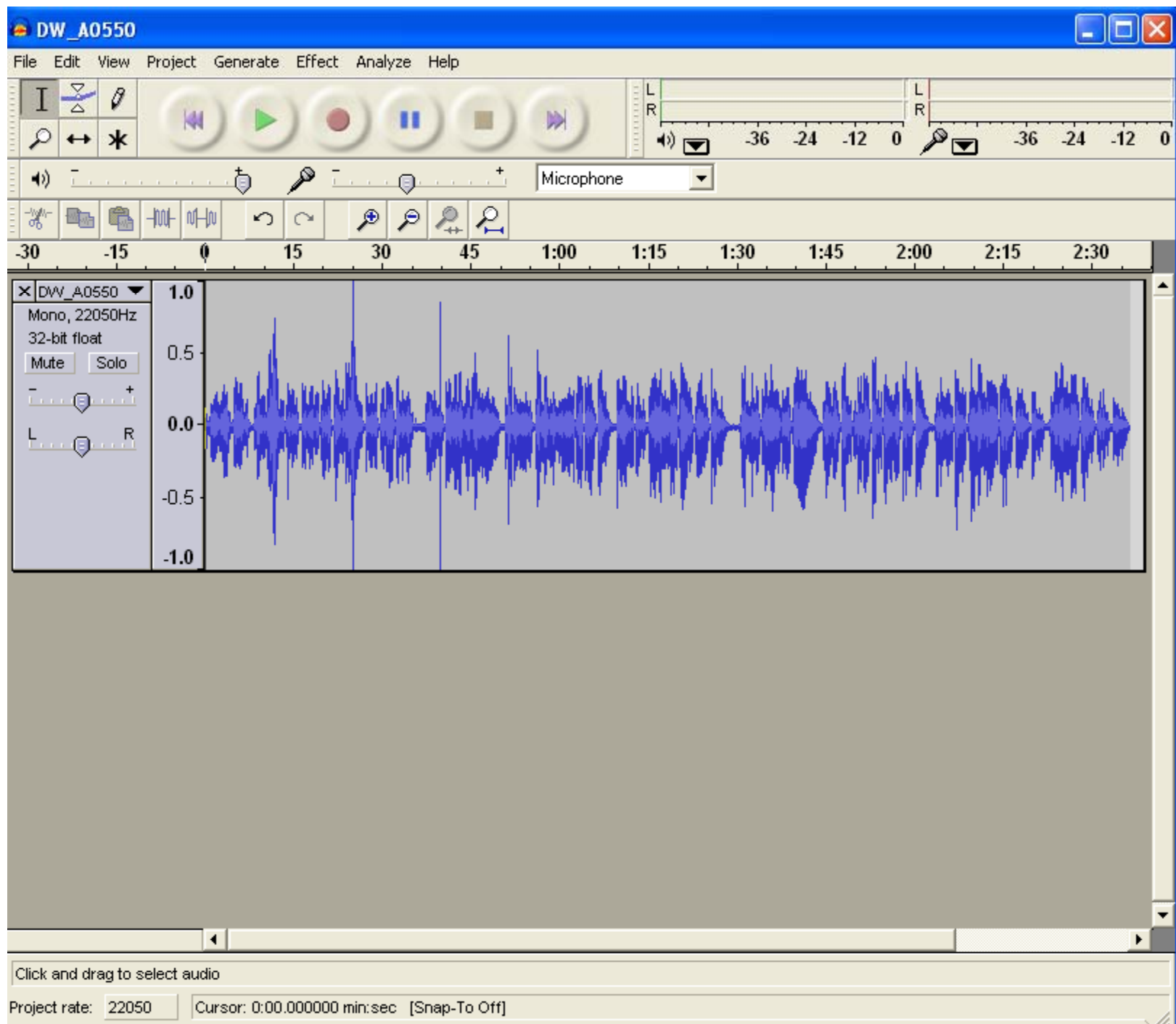


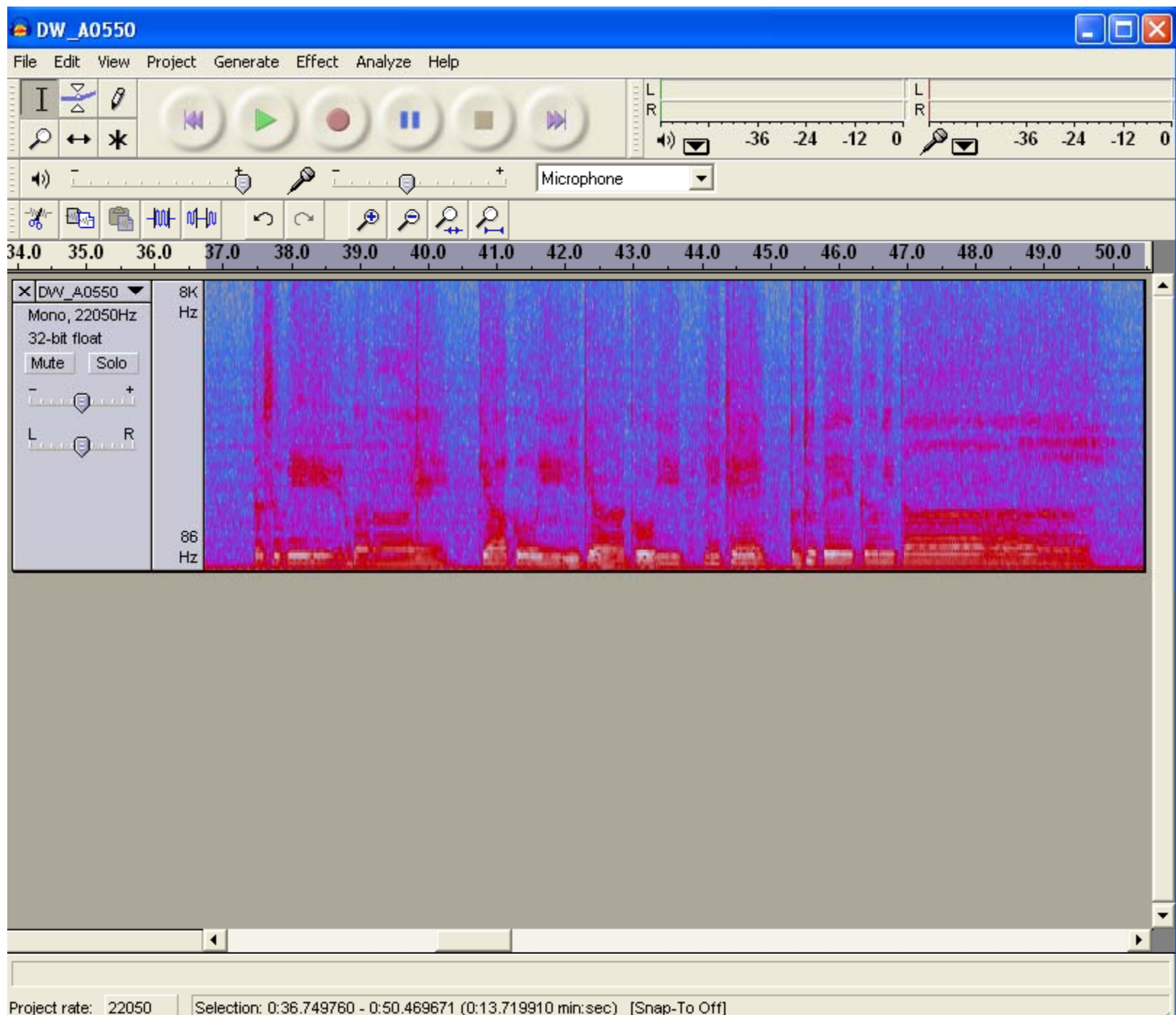
My Voice Editor

- Audacity



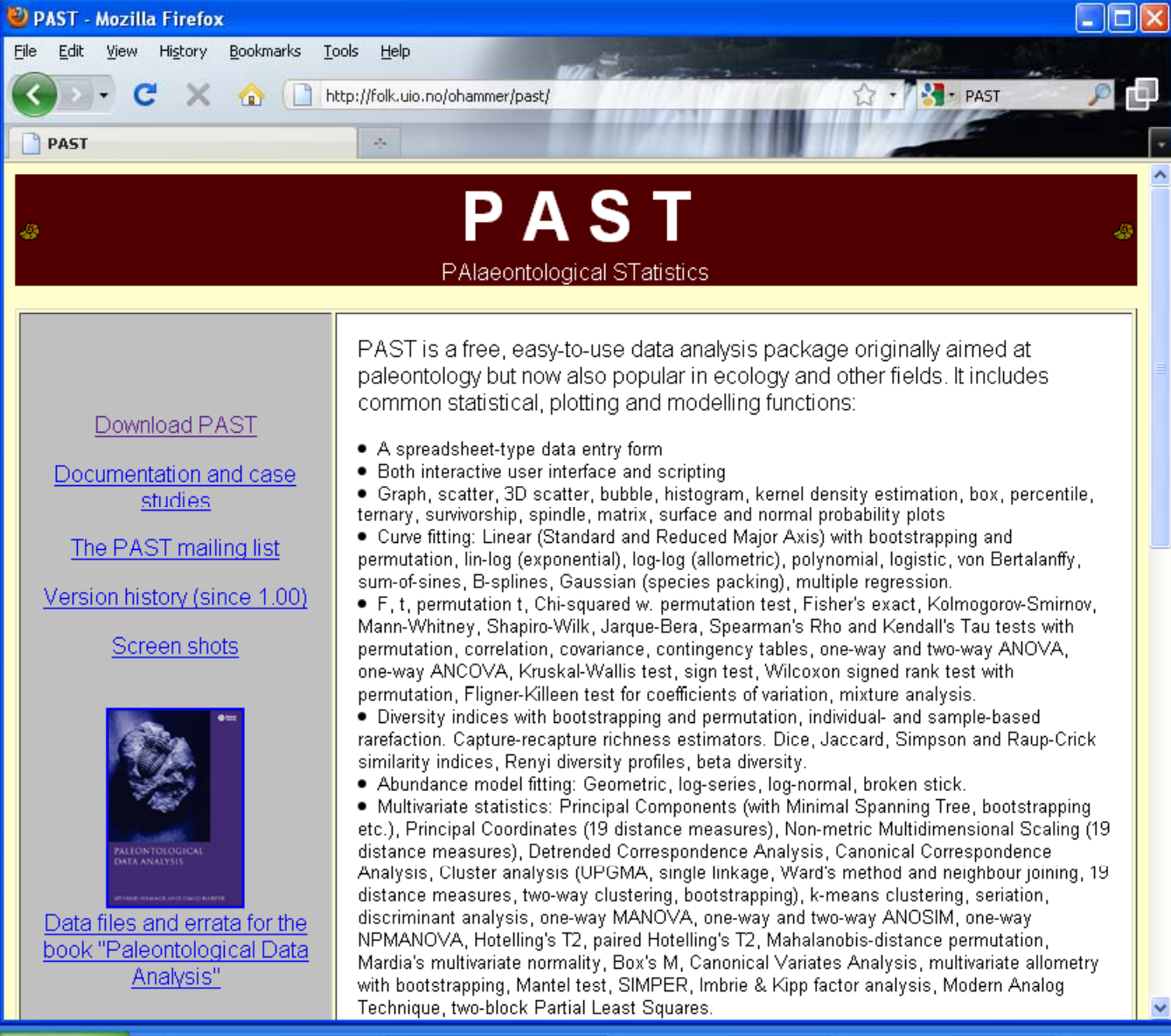






My Data Editor

- PAST



The screenshot shows a Mozilla Firefox browser window with the address bar displaying <http://folk.uio.no/ohammer/past/>. The page title is "PAST - Mozilla Firefox". The main content area has a dark red header with the text "PAST" in large white letters and "PALaeontological STATistics" in smaller white letters below it. The left sidebar is light gray and contains several blue links: "Download PAST", "Documentation and case studies", "The PAST mailing list", "Version history (since 1.00)", "Screen shots", and "Data files and errata for the book 'Paleontological Data Analysis'". Below the links is a small image of a fossil skull. The main content area on the right has a white background and contains a paragraph about PAST, followed by a bulleted list of its features.

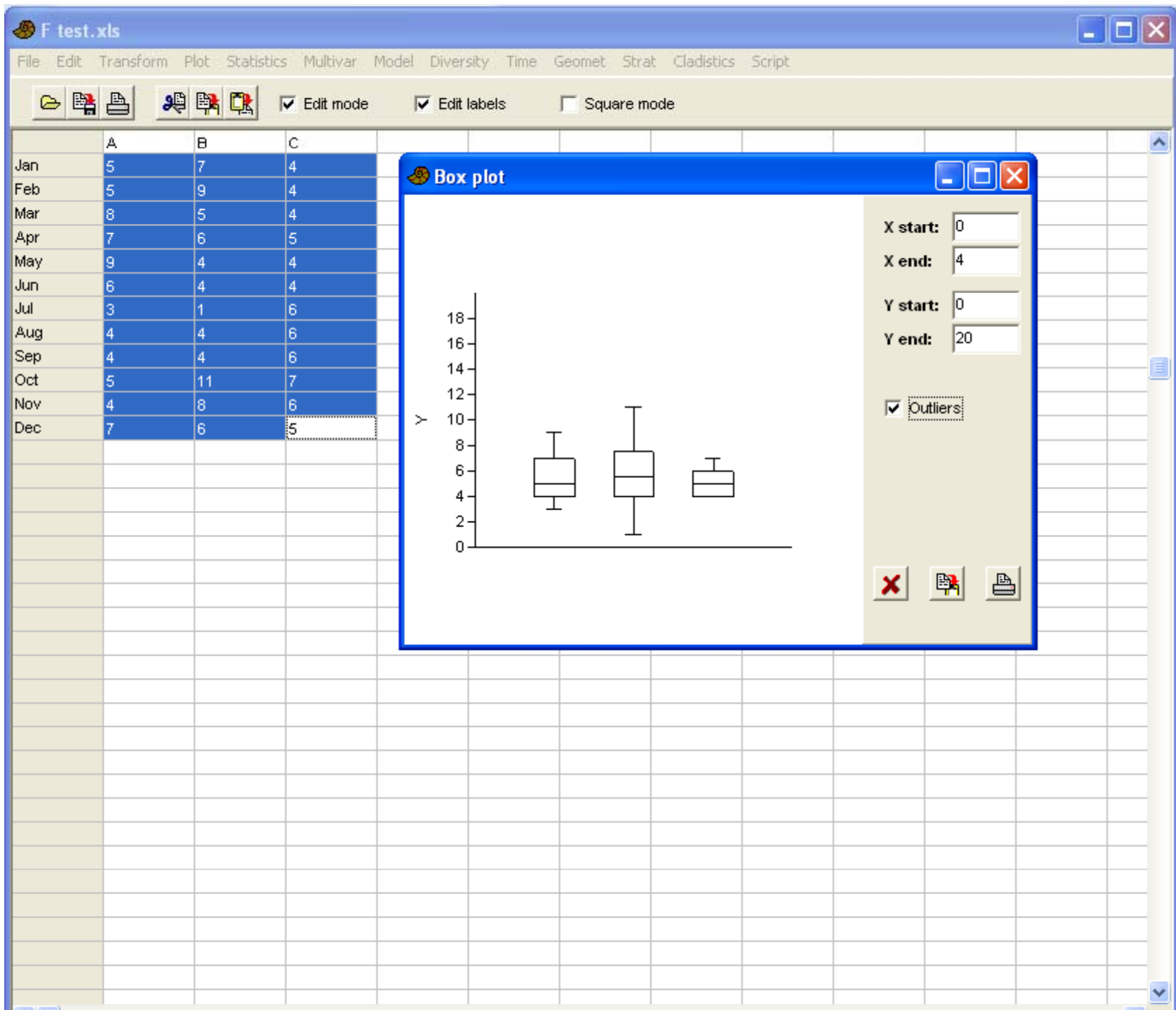
PAST is a free, easy-to-use data analysis package originally aimed at paleontology but now also popular in ecology and other fields. It includes common statistical, plotting and modelling functions:

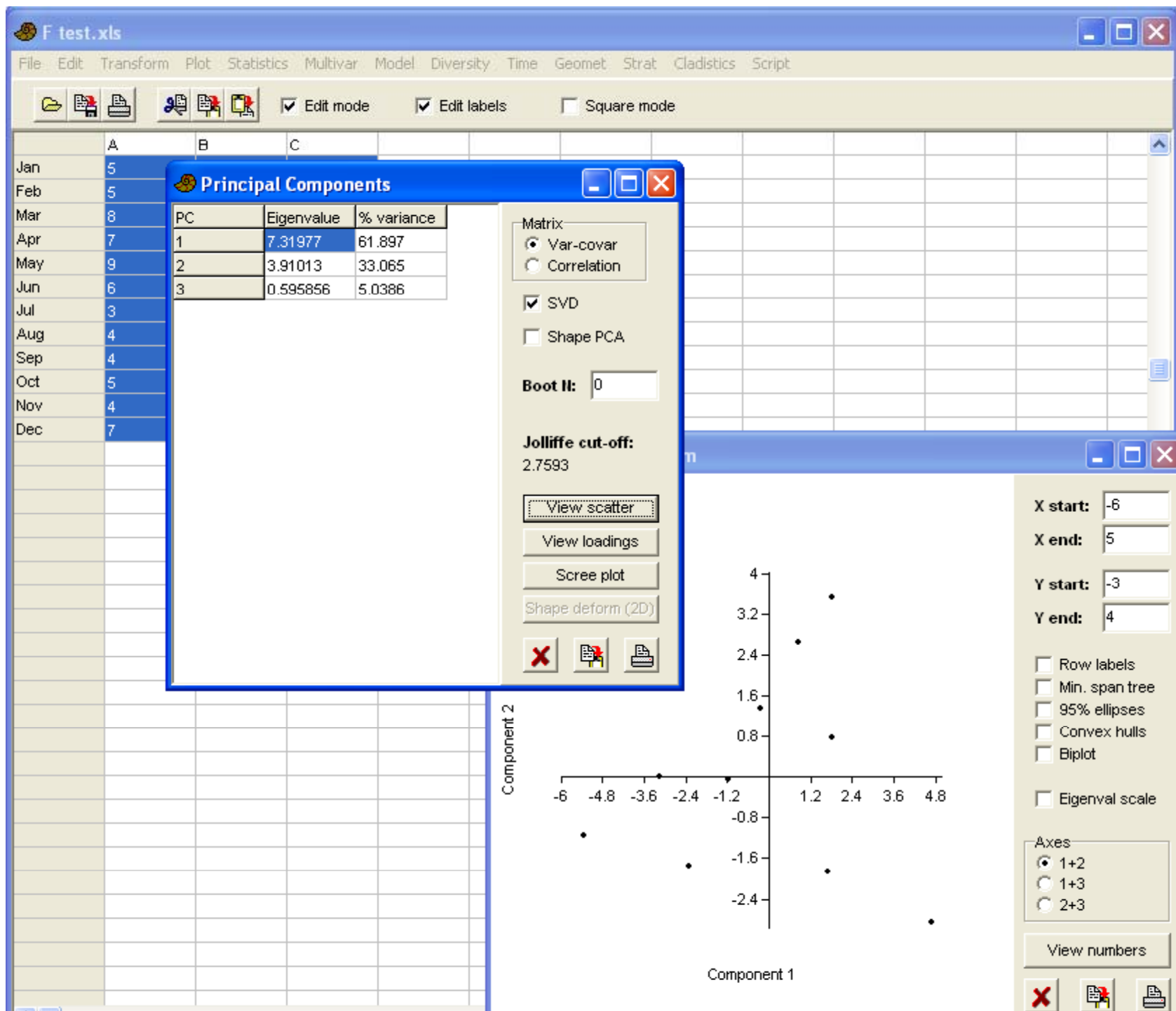
- A spreadsheet-type data entry form
- Both interactive user interface and scripting
- Graph, scatter, 3D scatter, bubble, histogram, kernel density estimation, box, percentile, ternary, survivorship, spindle, matrix, surface and normal probability plots
- Curve fitting: Linear (Standard and Reduced Major Axis) with bootstrapping and permutation, lin-log (exponential), log-log (allometric), polynomial, logistic, von Bertalanffy, sum-of-sines, B-splines, Gaussian (species packing), multiple regression.
- F, t, permutation t, Chi-squared w. permutation test, Fisher's exact, Kolmogorov-Smirnov, Mann-Whitney, Shapiro-Wilk, Jarque-Bera, Spearman's Rho and Kendall's Tau tests with permutation, correlation, covariance, contingency tables, one-way and two-way ANOVA, one-way ANCOVA, Kruskal-Wallis test, sign test, Wilcoxon signed rank test with permutation, Fligner-Killeen test for coefficients of variation, mixture analysis.
- Diversity indices with bootstrapping and permutation, individual- and sample-based rarefaction. Capture-recapture richness estimators. Dice, Jaccard, Simpson and Raup-Crick similarity indices, Renyi diversity profiles, beta diversity.
- Abundance model fitting: Geometric, log-series, log-normal, broken stick.
- Multivariate statistics: Principal Components (with Minimal Spanning Tree, bootstrapping etc.), Principal Coordinates (19 distance measures), Non-metric Multidimensional Scaling (19 distance measures), Detrended Correspondence Analysis, Canonical Correspondence Analysis, Cluster analysis (UPGMA, single linkage, Ward's method and neighbour joining, 19 distance measures, two-way clustering, bootstrapping), k-means clustering, seriation, discriminant analysis, one-way MANOVA, one-way and two-way ANOSIM, one-way NPMANOVA, Hotelling's T2, paired Hotelling's T2, Mahalanobis-distance permutation, Mardia's multivariate normality, Box's M, Canonical Variates Analysis, multivariate allometry with bootstrapping, Mantel test, SIMPER, Imbrie & Kipp factor analysis, Modern Analog Technique, two-block Partial Least Squares.

☒ Edit labels

☐ Square mode

[illegible]





My spatial data provider

- GLCF <http://glcf.umiacs.umd.edu/index.shtml>
- Worldclim <http://www.worldclim.org>

The image displays three overlapping browser windows, each showing a different spatial data provider's website.

Top Left Window: WorldClim - Global Climate Data
The browser window shows the URL <http://www.worldclim.org/current>. The page title is "Data for current conditions (~1950-2000) | WorldClim - Global Climate Data - Mozilla Firefox". The main heading is "WorldClim - Global Climate Data". A sidebar on the left contains links: "Discussion forum", "Contact form", and "About us". The main content area is titled "Data for current conditions (~1950-2000)" and includes a section for "Generic grids" with options for "30 arc-seconds (~1 km) down to 10 arc-seconds" and "2.5 arc-minutes resolution".

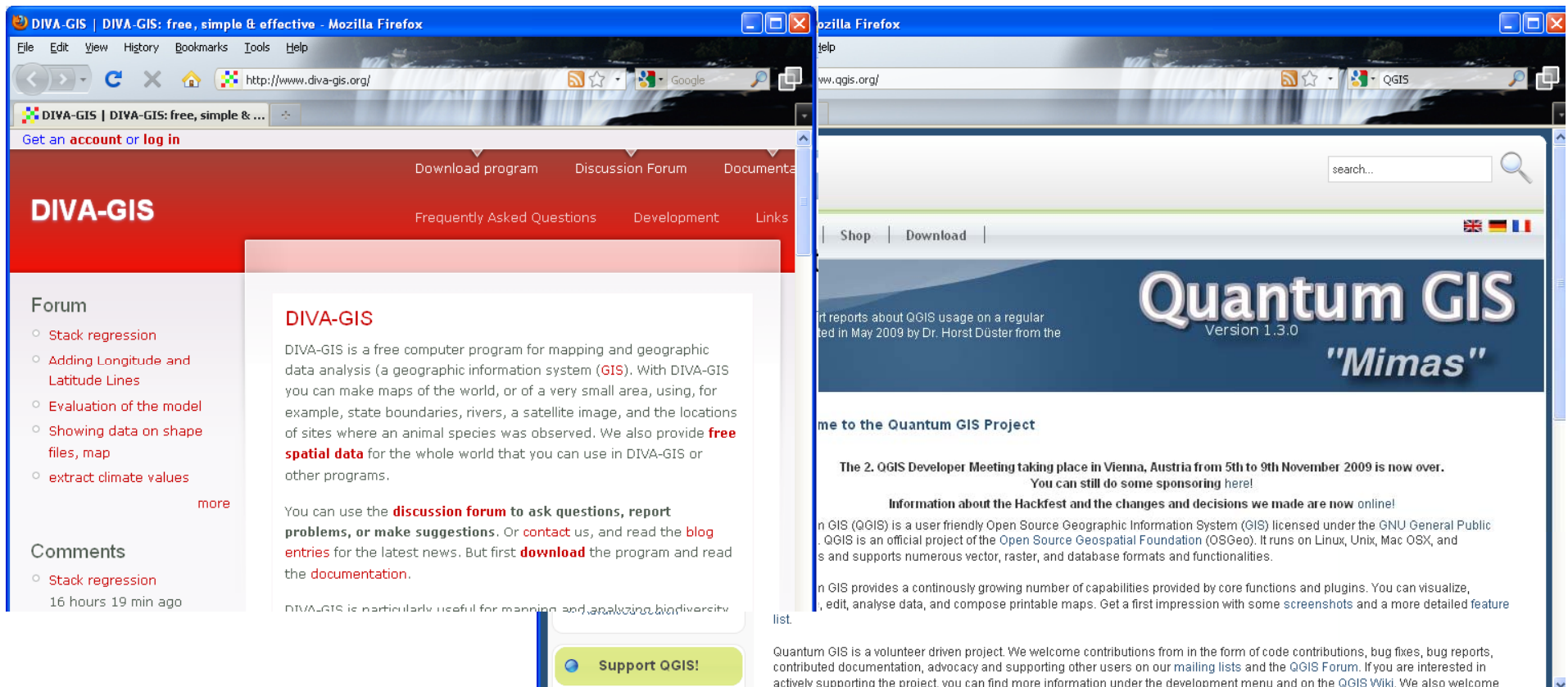
Top Right Window: GLCF: Earth Science Data Interface
The browser window shows the URL <http://glcfapp.umiacs.umd.edu:8080/esdi/index.jsp>. The page title is "GLCF: Earth Science Data Interface - Mozilla Firefox". The main heading is "Global Land Cover Facility Earth Science Data Interface". A navigation bar includes links: "Home", "Map Search", "Product Search", "Path/Row Search", "Workspace", "Login", "Help", "Contact Us", and "GLCF". The main content area shows a map of India with a red box highlighting a region in the south. Text on the map includes "ETM+ WRS-2, Path 146, Row 049", "2000-11-25", "EarthSat", "Ortho, GeoCover", and "India".

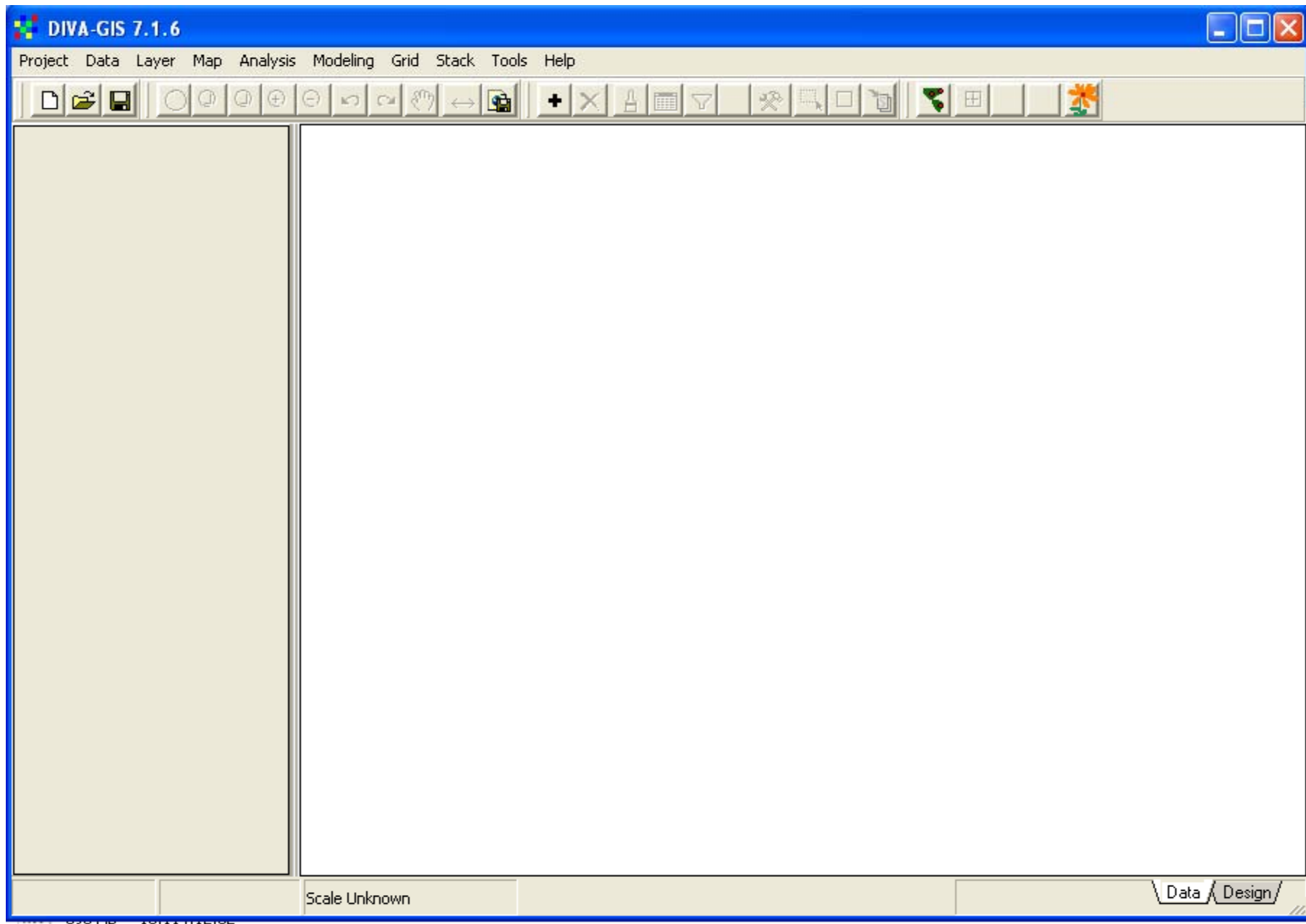
Bottom Window: USGS/EROS Find Data/Products and Data Available/gtopo30/hydro
The browser window shows the URL http://eros.usgs.gov/#/Find_Data/Products_and_Data_Available/gtopo30/hydro. The page title is "USGS/EROS Find Data/Products and Data Available/gtopo30/hydro - Mozilla Firefox". The main heading is "USGS science for a changing world Earth Resources Observation and Science (EROS) Center". A navigation bar includes links: "Home", "Find Data", "Science", "Remote Sensing", and "About Us". The main content area is titled "HYDRO1k Elevation Derivative Database" and includes a map of the world.

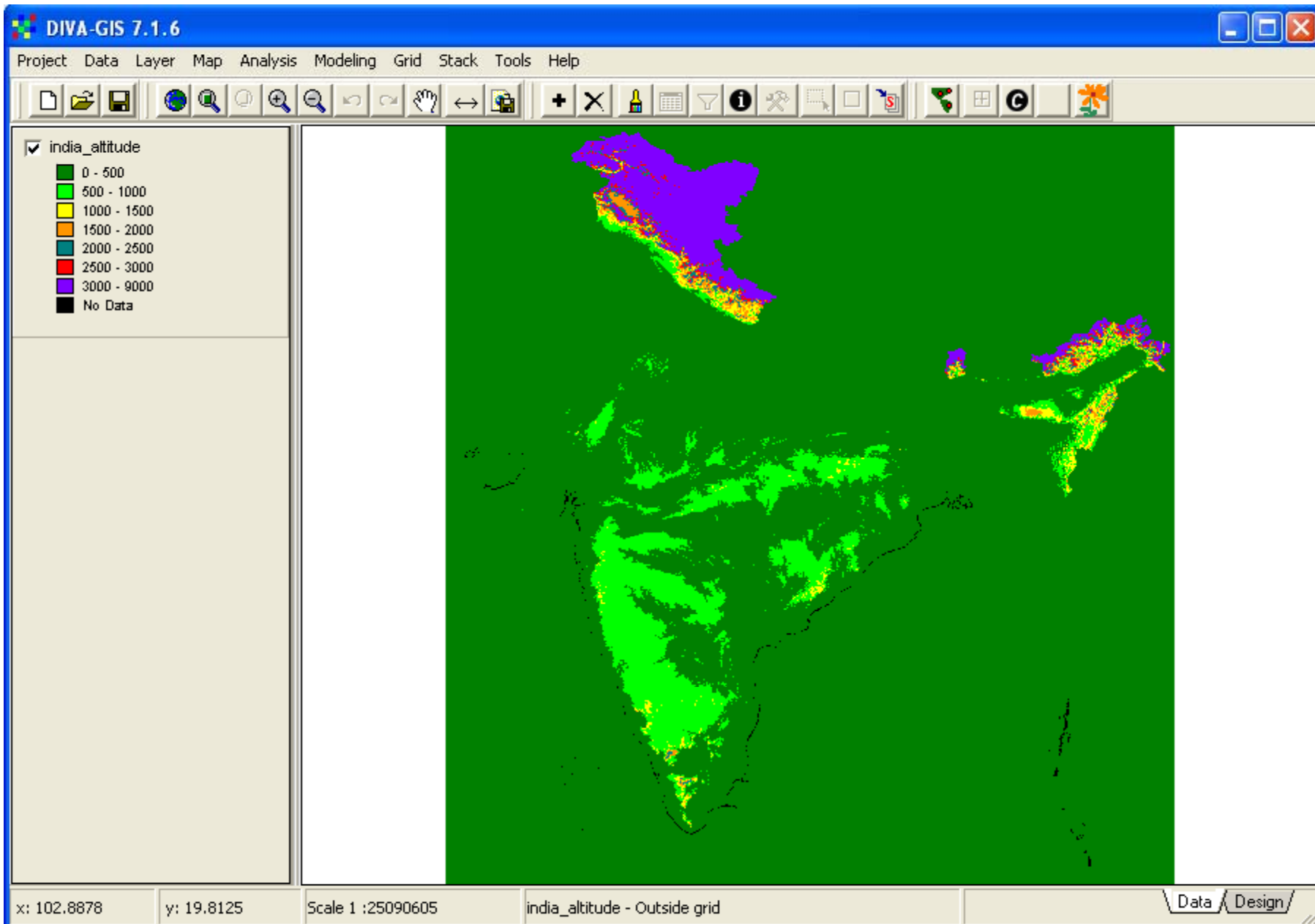
Producer	Attr.
EarthSat	Ortho, GeoCover
EarthSat	Ortho, GeoCover
EarthSat	Ortho, GeoCover
USGS	Ortho, GLS2000
USGS	Ortho, GLS2000
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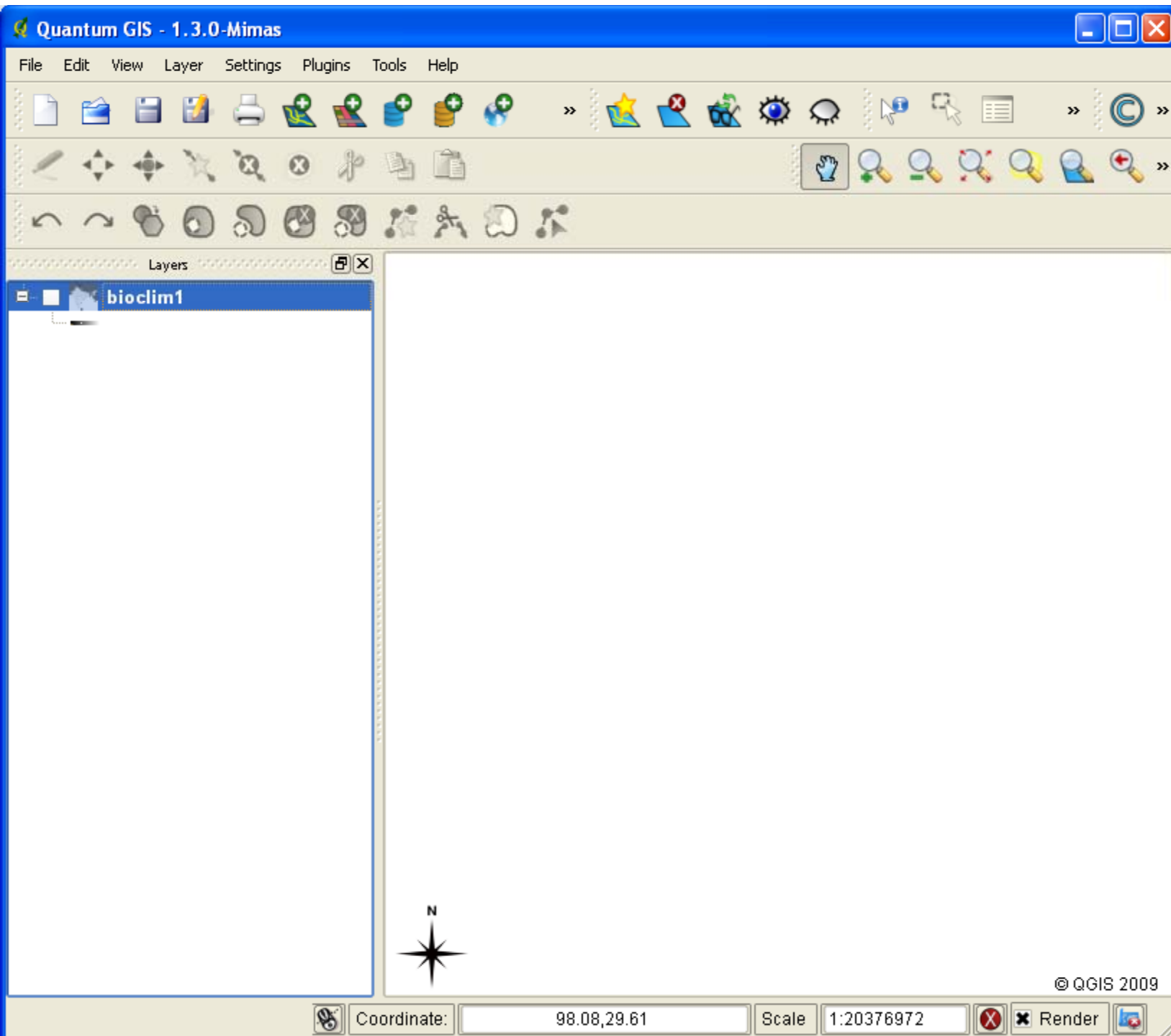
My Spatial Data Analyser

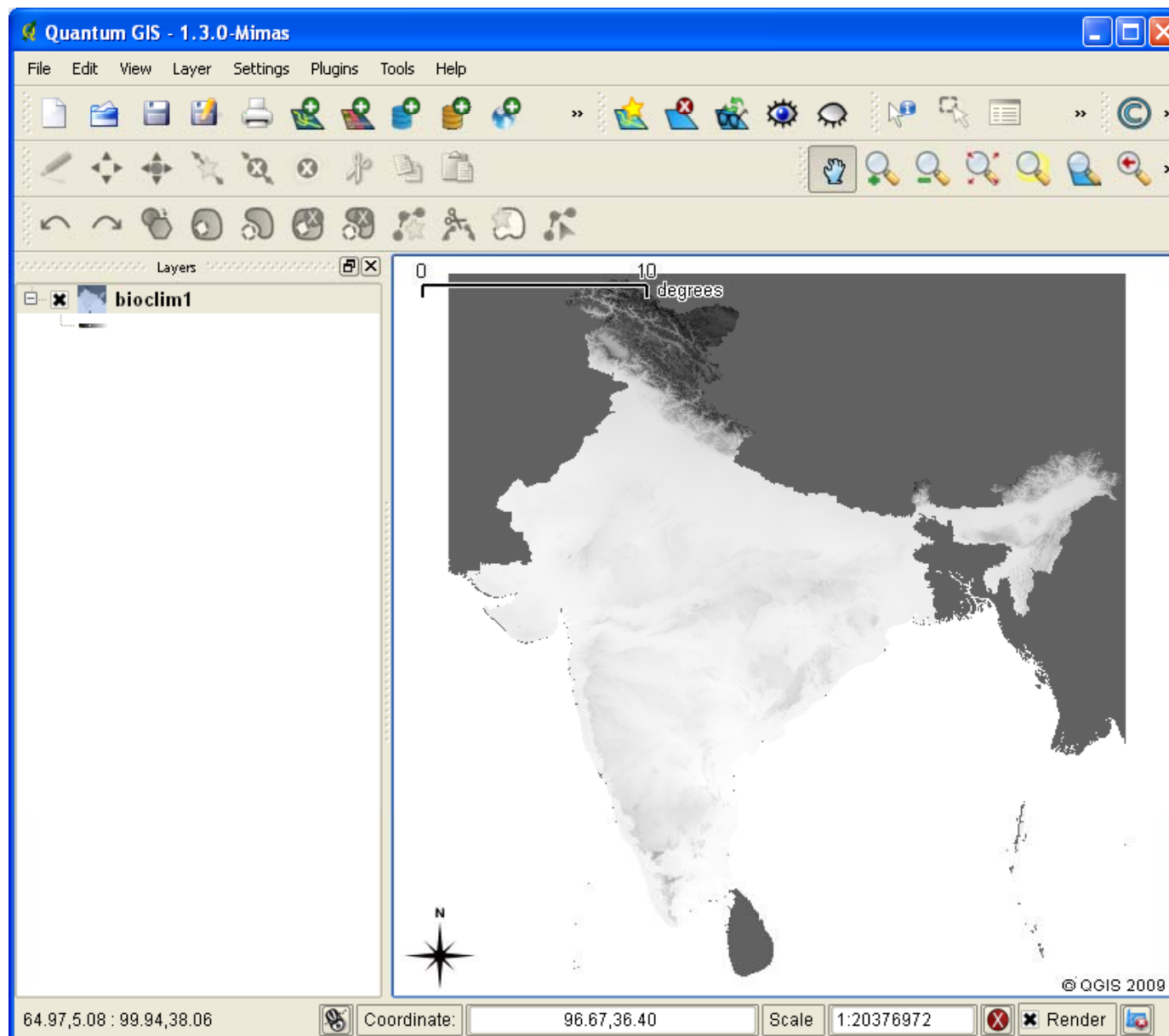
- QGIS <http://www.qgis.org/>
- DIVA GIS <http://www.diva-gis.org/>







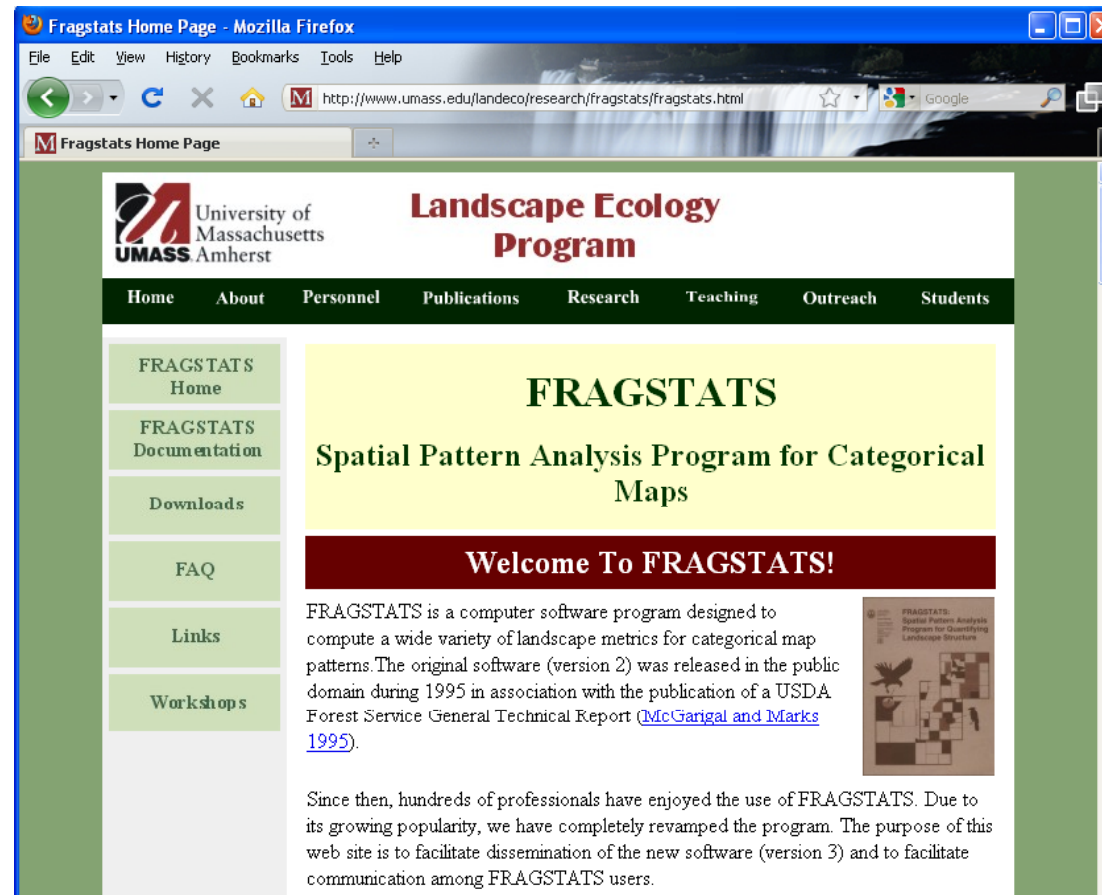


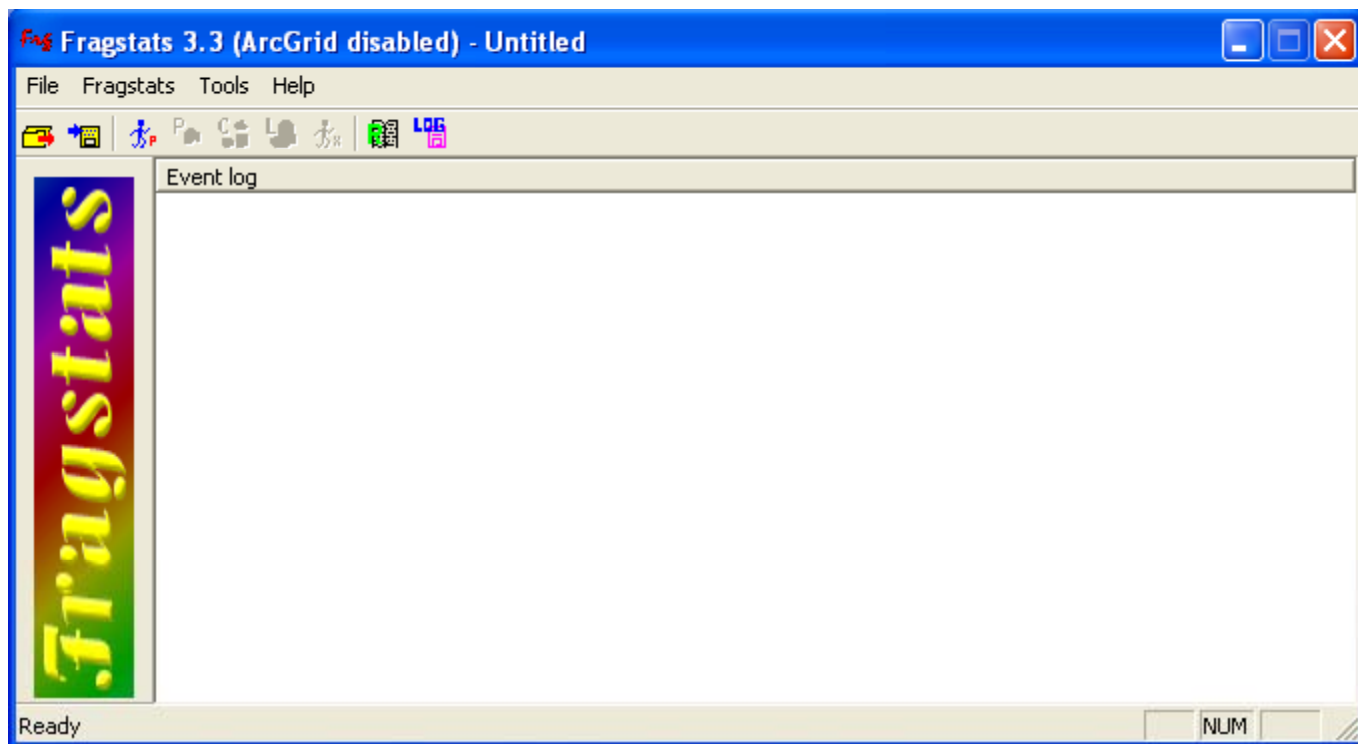


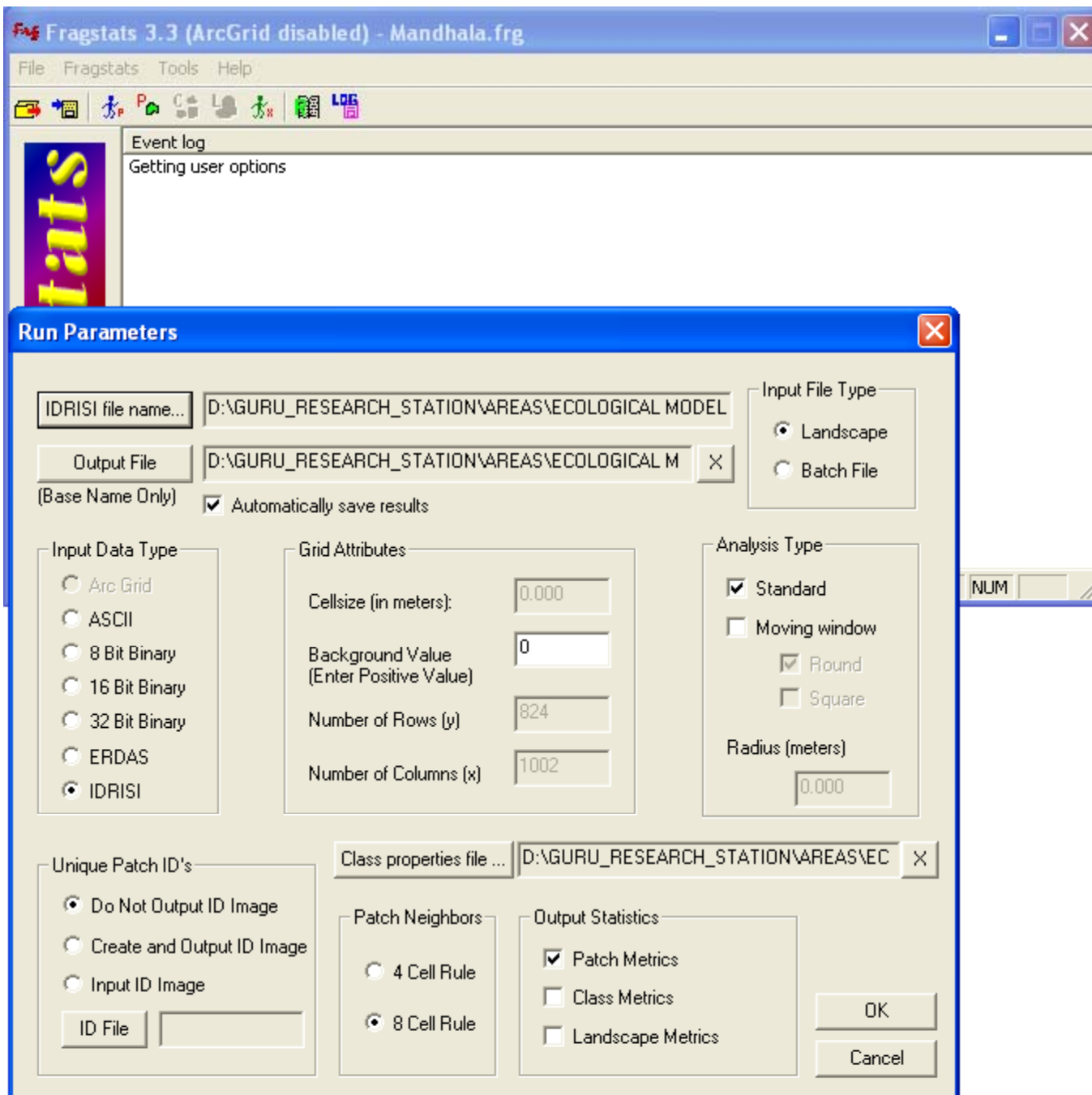
Fragmentation Analyser

- Fragstats®

<http://www.umass.edu/landeco/research/fragstats/fragstats.html>







Fragstats 3.3 (ArcGrid disabled) - Mandhala.frg

File Fragstats Tools Help

Area/Perimeter Shape Core Area Isolation / Proximity Contrast

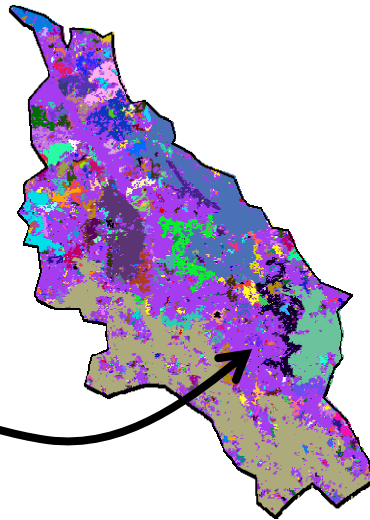
Clear All

	Class-Level Deviations		Landscape-Level Deviations		
	Standard Deviation (CSD)	Percentile (CPS)	Standard Deviation (LSD)	Percentile (LPS)	
☒ Patch Area (AREA)	☐	☐	☐	☐	Select All
☒ Patch Perimeter (PERIM)	☐	☐	☐	☐	Select All
☒ Radius of Gyration (GYRATE)	☐	☐	☐	☐	Select All
	Select All	Select All	Select All	Select All	

OK Cancel Help

Fragstats® output

Background colour

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Distribution modelling

- openModeller <http://openmodeller.sourceforge.net/>



openModeller Desktop

File
Edit
Data Preparation
Reports
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Tip of the day: How do I refer to openModeller?

openModeller is spelled with a lower case 'o' at the start of the word - even if its the beginning of a sentence. We have various subprojects of the openModeller project and it will help to avoid confusion if you refer to each by its name:

- openModeller Library - this is the C++ library that contains the core logic for carrying out niche modelling
- openModeller Console - these are a collection of command line tools that allow you to run niche models from a unix or DOS shell, or from a scripting environment.
- openModeller Web Service - The openModeller Web Service allows for remote execution of niche models.
- openModeller Desktop - the openModeller Desktop provides a graphical user interface for the openModeller Library. It also includes the capability to run models using the openModeller Web Service (though this is still considered experimental).

openModeller Desktop - Documentation

This is the help documentation for openModeller Desktop. You can return to this help document at any stage by using Help->Documentation from the menu. Please visit the openModeller home page at <http://openmodeller.sf.net> for additional information about openModeller.

Important notes about the occurrences file for

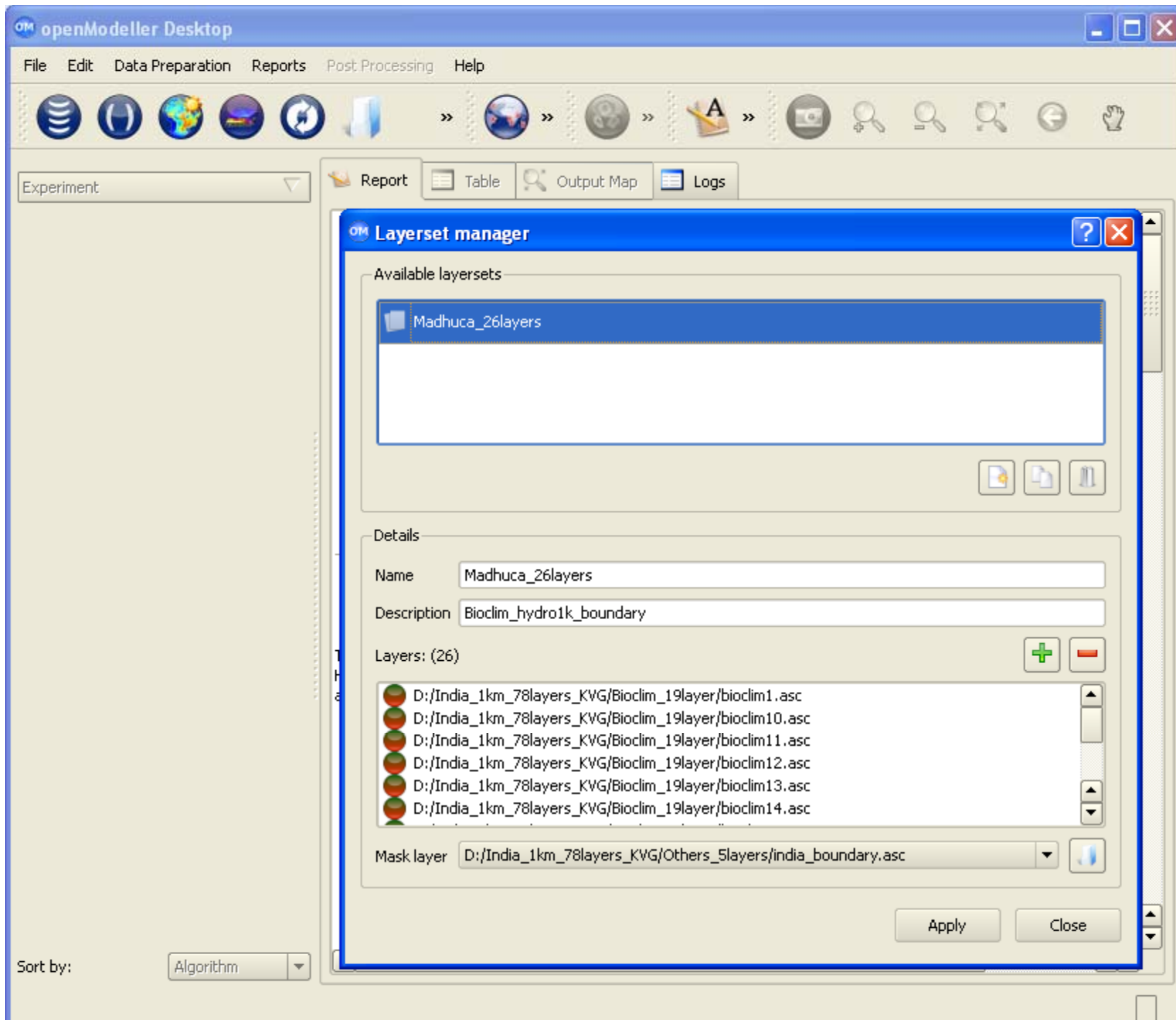
As of openModellerDesktop version 1.0.6 your occurrence files need to be in the fo

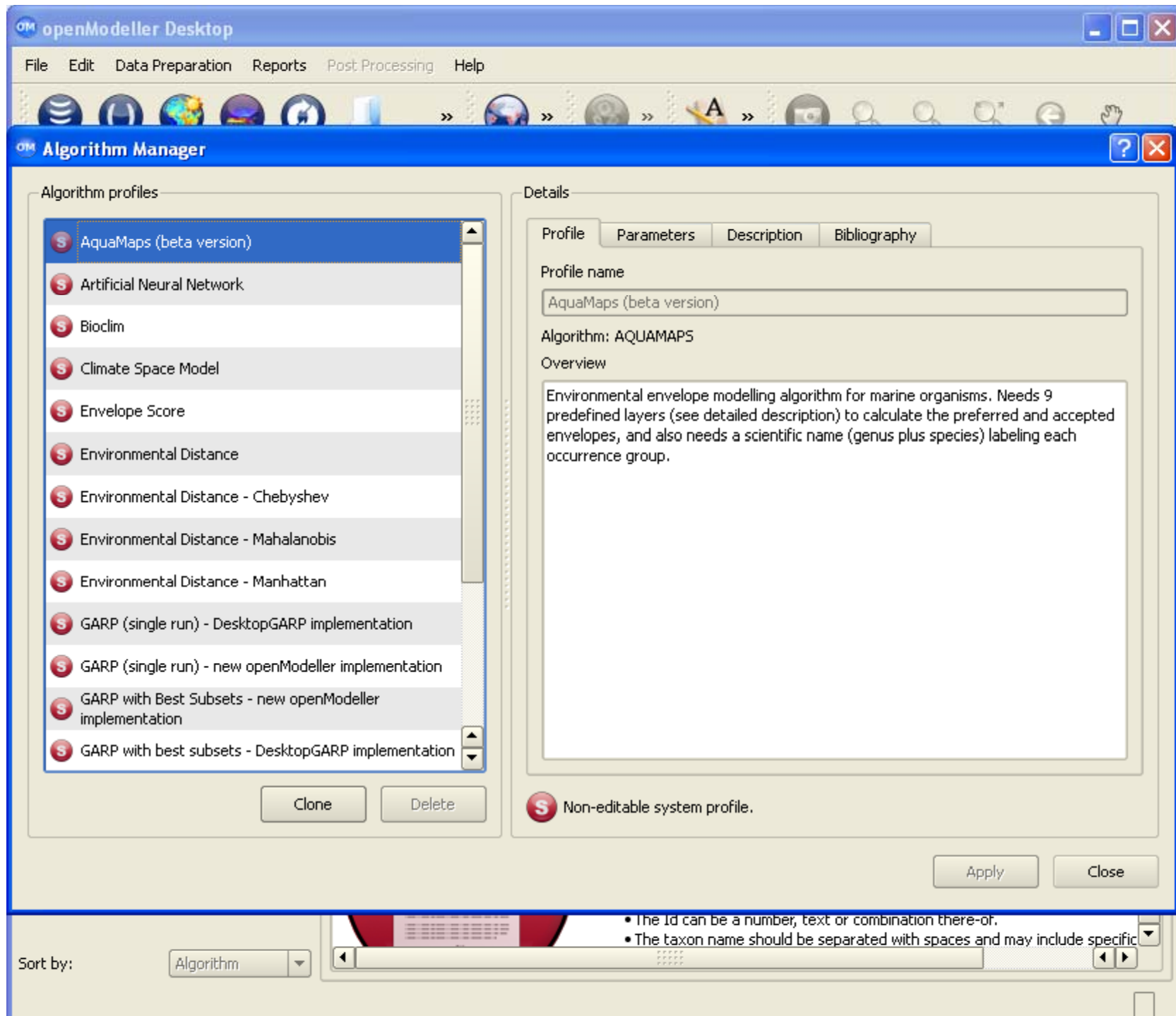
```
#ID-tab-Taxon Name-tab-Longitude-tab-Latitude-tab-Abundar
```

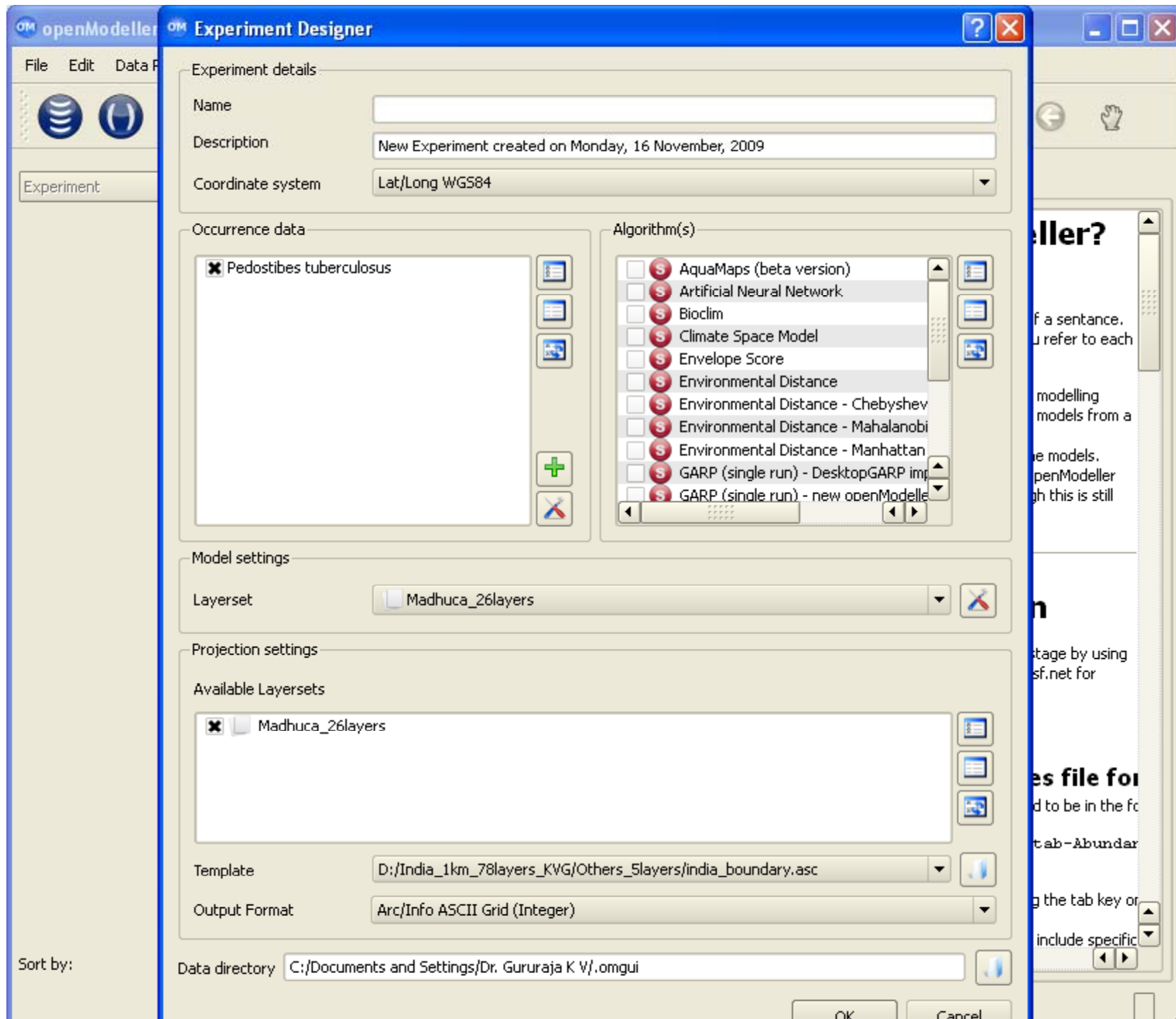
- Lines starting with # are ignored.
- The -tab- markers above should be the inserted by pressing the tab key or
- The Id can be a number, text or combination there-of.
- The taxon name should be separated with spaces and may include specific

Sort by:

Algorithm







openModeller Desktop - Pedostibes distribution 10 oct 09

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Madhuca_26layers

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openModeller Desktop

openModeller is open source software
<http://openmodeller.sf.net>

Experiment Report

Pedostibes distribution 10 oct 09

Description

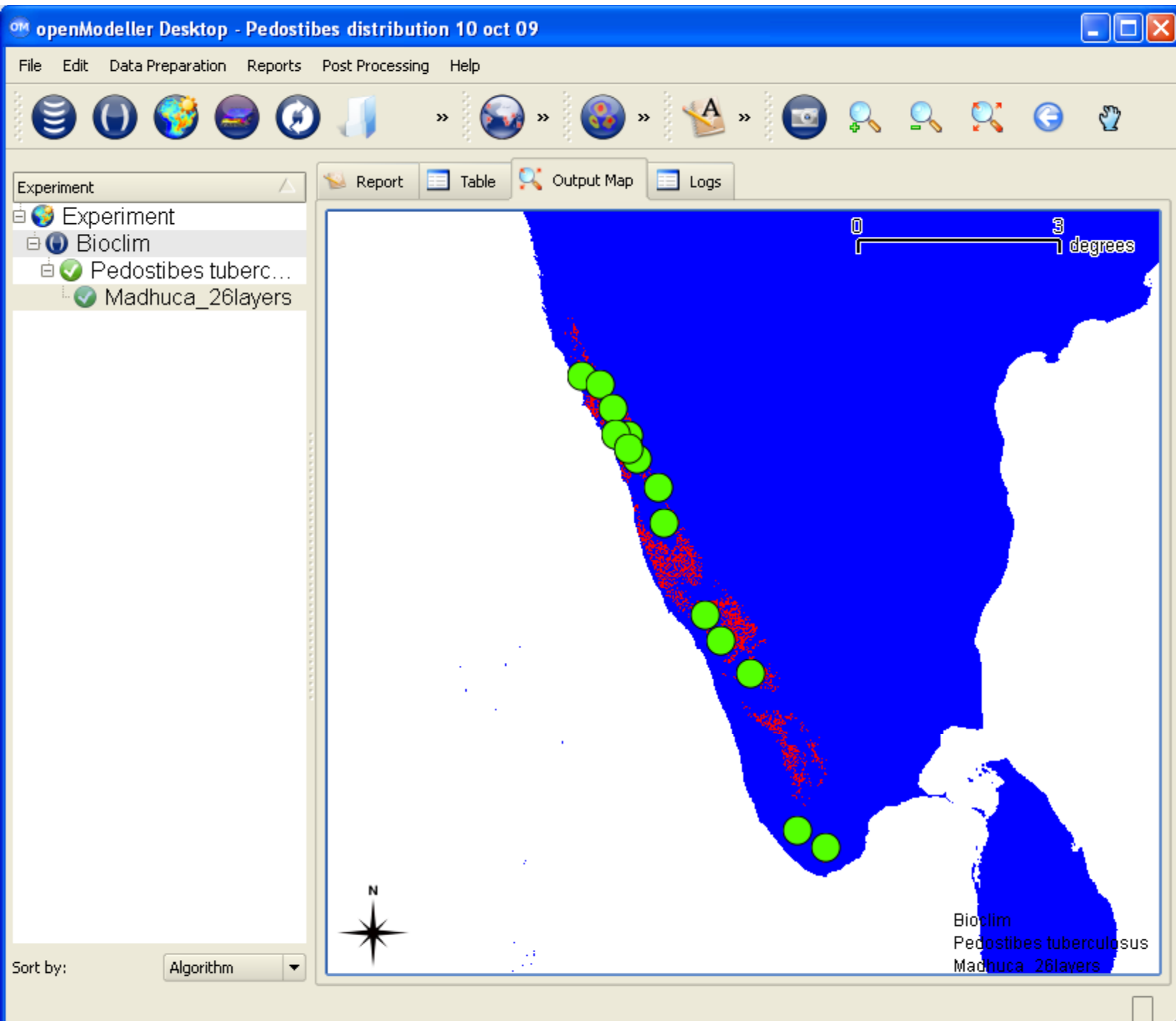
New Experiment created on Saturday, 10 October, 2009

Summary of experiment

	Score
Total number of models:	1
Succesfully completed models:	1
Failed models:	0
Models not started:	0
Elapsed time for all models (excludes report generation time):	1min 35s
Number of failed models:	0

Sort by:

Algorithm



What I learnt?

- Open Mindset....shed fear of Free means flaw
- Developer need more interactions with users!
And vice versa!!

Acknowledgements

- Dr. H.S. Sudhira for introducing me to the world of FOSS
- Karthick B for being an RSS feed on new version

Thank You

