

## Gambaran Beberapa Software Murah & Open Source untuk Remote Sensing & GIS

Dr.-Ing. Fahmi Amhar

Jakarta, 11 Agustus 2005



*Remote Sensing dengan Software Murah dan Open Source*

## Remote Sensing

Remote sensing is the science of deriving information about the earth's land and water areas from images acquired at a distance.

It usually relies upon measurement of electromagnetic energy reflected or emitted from the features of interest (Campbell 1987).

[fwie.fw.vt.edu/tws-gis/glossary.htm](http://fwie.fw.vt.edu/tws-gis/glossary.htm) -



*Remote Sensing dengan Software Murah dan Open Source*

## Freeware

Software which is distributed free by the author. Although it is available for free, the author retains the copyright, which means that it cannot be altered or sold.

[faculty.valencia.cc.fl.us/jdelisle/lis2004/glossary.htm](http://faculty.valencia.cc.fl.us/jdelisle/lis2004/glossary.htm)



*Remote Sensing dengan Software Murah dan Open Source*

## Public Domain Software

is software for which the titles and copyrights have been explicitly relinquished by the author, so that anyone can use it as they please, free of charge.

[www.umassp.edu/policy/data/itcdefad.html](http://www.umassp.edu/policy/data/itcdefad.html)



*Remote Sensing dengan Software Murah dan Open Source*

## Open Source

(OSS) Open Source Software is software for which the underlying programming code is available to the users so that they may read it, make changes to it, and build new versions of the software incorporating their changes.

There are many types of Open Source Software, mainly differing in the licensing term under which (altered) copies of the source code may (or must be) redistributed.

[www.unitedyellowpages.com/internet/terminology.html](http://www.unitedyellowpages.com/internet/terminology.html)



Remote Sensing dengan Software Murah dan Open Source

## Open source / free software

- The following are [open source](#) or [free software](#) applications.
- [GRASS](#) is the largest and most comprehensive Free Software GIS package.
- [FreeGIS](#) maintains a comprehensive list of Free Software GIS applications.
- [PostGIS](#) is spatial extensions for the open source [Postgres](#) database, allowing geospatial queries.
- [MapServer](#) is a web based mapping server with many features and supported formats.
- [GeoTools](#) an open source GIS toolkit written in [Java](#) which implements [Open Geospatial Consortium](#) specifications as they are developed.
- [gvSIG](#) is an open source GIS written in Java.
- [LandSerf](#) is a free GIS written in Java.
- [TaGISViewer](#) — Free Temporal GIS viewer.



Remote Sensing dengan Software Murah dan Open Source

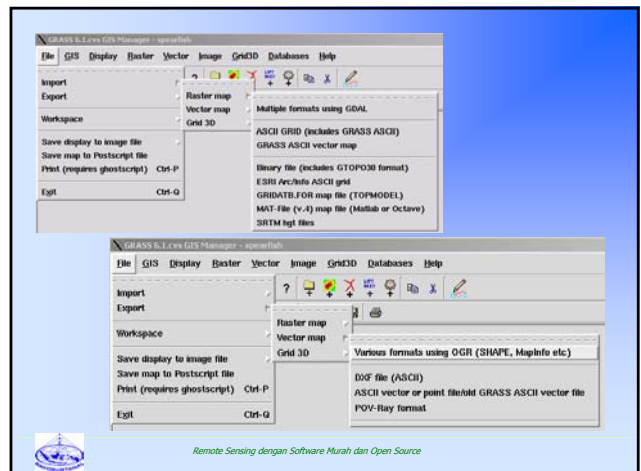
## Grass

“Geographic Resources Analysis Support System”, is a Geographic Information System (GIS) used for geospatial data management and analysis, image processing, graphics/maps production, spatial modeling, and visualization.

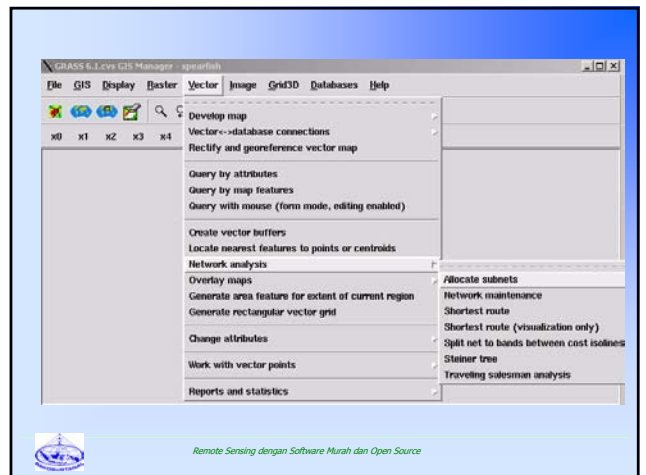
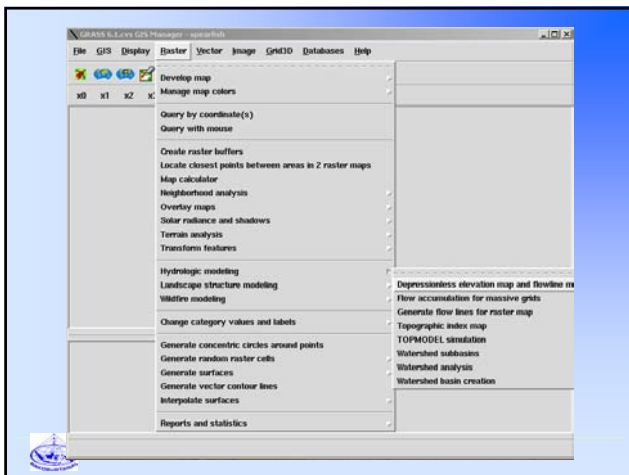
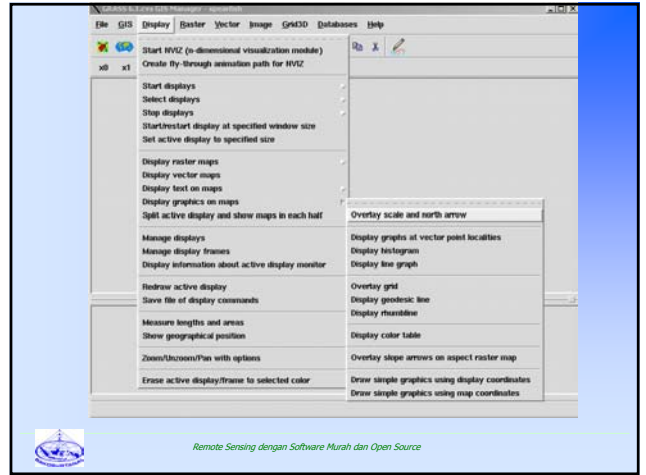
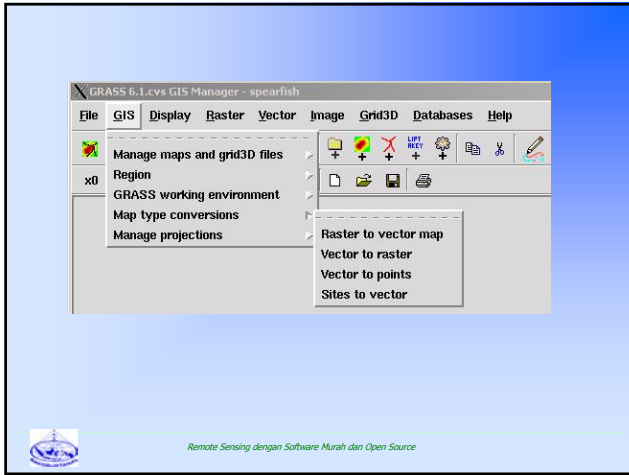
GRASS is currently used in academic and commercial settings around the world, as well as by many governmental agencies and environmental consulting companies.

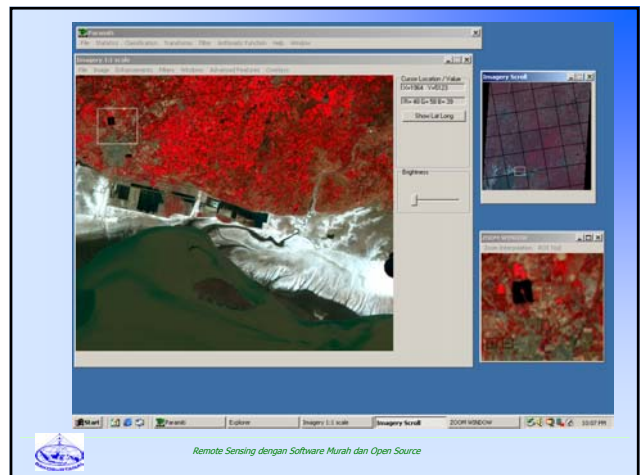
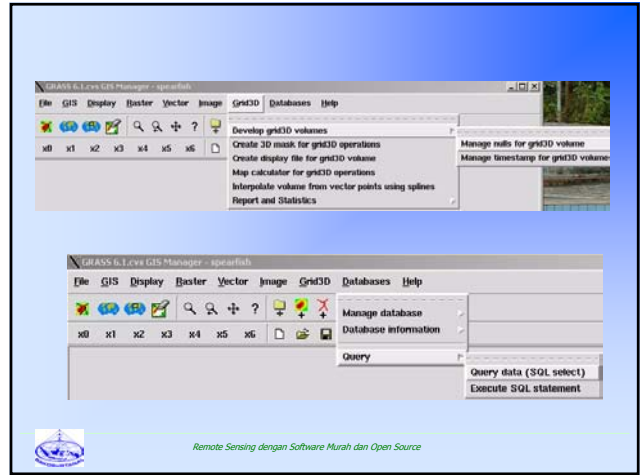
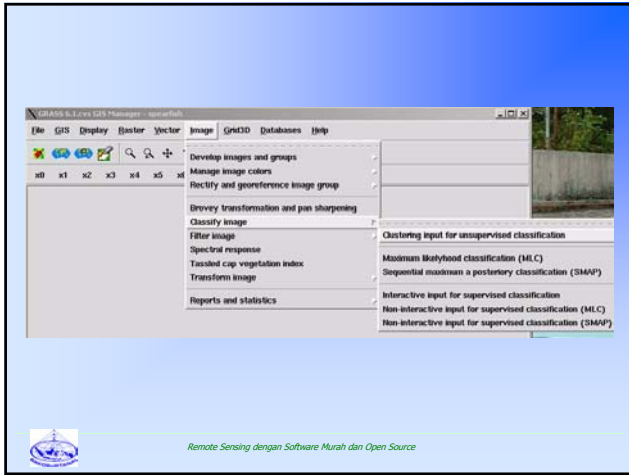


Remote Sensing dengan Software Murah dan Open Source



Remote Sensing dengan Software Murah dan Open Source







Remote Sensing dengan Software Murah dan Open Source