

**The GLCF Mission** is: “To encourage the use of remotely sensed imagery, derived products and applications within a broad range of science communities in a manner that improves comprehension of the nature and causes of land cover change and its impact on the Earth.”

**GLCF Goals include** : “Provide free access to an integrated collection of critical land cover and Earth science data through systems that are designed to maximize user outreach and that promote development of novel tools for ordering, visualizing and manipulating spatial data.”

Available imagery & derived products:

#### GLCF Data Collections

##### Imagery Collection:

- Landsat Imagery
- ASTER Imagery
- MODIS Imagery & Composites
- AVHRR Imagery & Composites

##### Derived Products Collection:

- Landsat Mosaics
- Landsat Forest Change Products
- MODIS Veg. Continuous Fields
  - Percent Tree Cover
  - Percent Bare Cover
  - Percent Herbaceous Cov.
- MODIS Veg. Index Products
- GOES Products
- AVHRR Tree Cover Continuous Fields
- AVHRR Land Cover Classifications

The Global Land Cover Facility staff is available for special orders, technical questions, custom requests and assistance using any of our earth science products.



The Global Land Cover Facility is funded through NASA, with sponsorship at the University of Maryland, and is located in the University of Maryland Institute for Advanced Computer Studies.

The GLCF is a founding member of the Federation of Earth Science Information Partners:

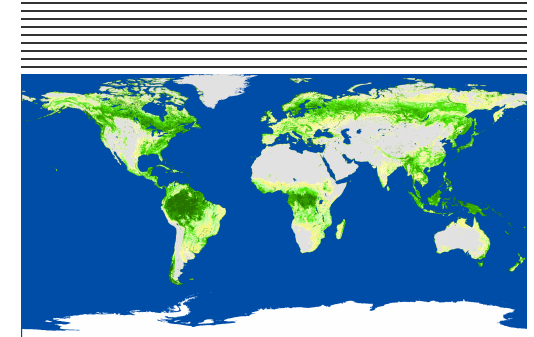
[www.esipfed.org](http://www.esipfed.org)



#### Global Land Cover Facility

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<http://glcf.umiacs.umd.edu>



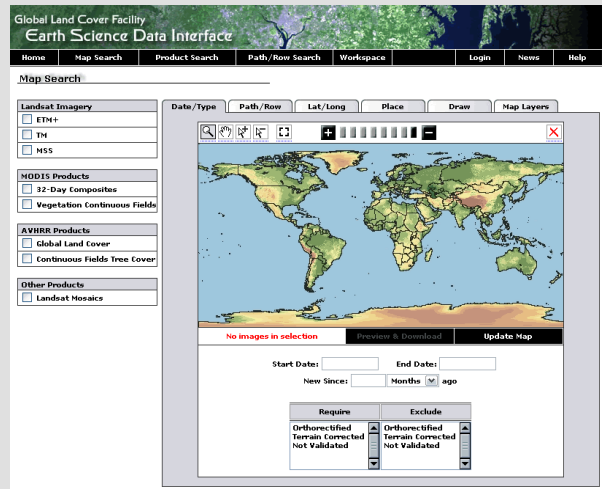
## GLOBAL LAND COVER FACILITY

Serving Earth Systems  
Information to the World

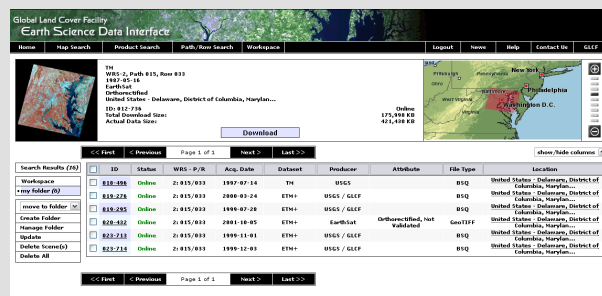


## Earth Science Data Interface (ESDI)

The Global Land Cover Facility has developed a distinct interface for users to access our data collection. This GUI is available on current web browsers and is free to access and operate. Users can enter parameters such as product type, place, date, or coordinates to locate the data they need for Earth science research.

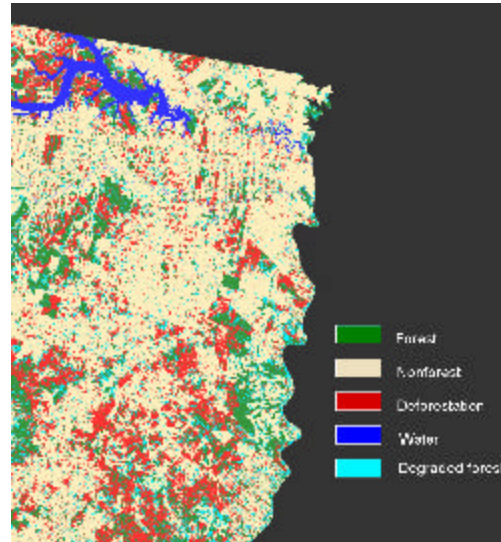


Tools such as flexible search footprints and multi-scale illustrations allow the user to pinpoint the data they need as quickly as possible.



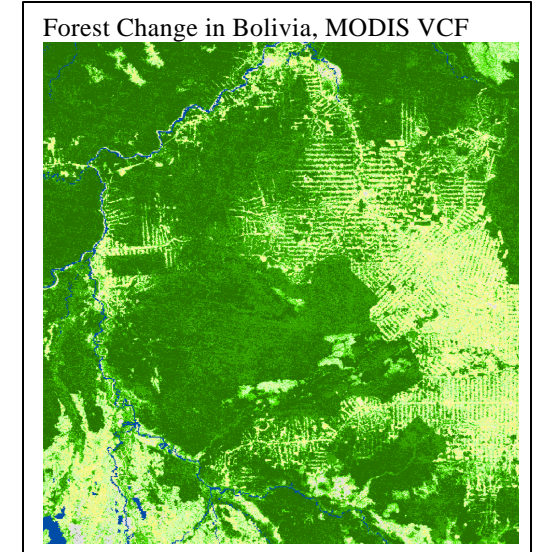
## Landsat Products

Another major product available at the GLCF is **Forest Change** Analysis. The GLCF is heir to the decade-long Pathfinder project, where the UMD Geography Department participated in mapping forest change in the Amazon.



The Global Land Cover Facility team has extended that tradition to include the Atlantic Forest of South America, mapping forest change in Paraguay in particular. The Paraguay forest change products include detection between 1990 and 2000, and between 1975 and 2000. Both products continue the Pathfinder project's methodology with Landsat imagery as the primary source material. Ground validation has enhanced the product, with collaborations between GLCF and NGOs in Paraguay and the WWF.

## MODIS Products



The MODIS team at the UMD Department of Geography has produced a Vegetation Continuous Fields (VCF) product, made available through the Global Land Cover Facility. This product, and the related AVHRR Continuous Fields Tree Cover product, is revolutionary in their depiction of land cover in continuous fields for all land surfaces on the planet.

The VCF MODIS products, along with the 500m 32-day composites and MODIS vegetation products, are available through the GLCF interface in a variety of formats and projections to allow users maximum utility and minimum reprocessing after download.