

**EDG Data Set Name**

MODIS/Terra Vegetation Cover Conversion 32-Day L3 Global 250m ISIN Grid

**Granule Shortname**

MOD44A

Version	Acquisition Range	Science Quality Status
V003	April 7 2001 (2001097) - April 7 2002 (2002097)	Beta

**Data Set Characteristics**

Area = ~ 10° x 10° lat/long

Image Dimensions Metrics = 3 (4800X4800X11 row/column/metric)

Image Dimensions Change = 2 (4800x4800 row/column)

Average File Size = ~ 1150 MB

Resolution = 250 meters

Projection = Integerized Sinusoidal

Data Format = HDF-EOS

Science Data Sets (SDSs) = 8

**Product Description**

Vegetative Cover Conversion (VCC) is produced on a quarterly basis comparing data from the 3 months of the current year to the same 3 months of the previous year. The input for VCC is the MOD44C 250m resolution 16-day intermediate composite. This composite is created from 16 days of daily data by performing a quality based per pixel method, which selects the most cloud free and highest spatial resolution data. Each of these composites is processed separately and change is detected by comparison of the images.

In this version, the only change being reported is a change from closed canopy forest cover to non-forest for the humid tropical regions of the globe (20 deg N latitude to 20 deg S. latitude). In future versions change will be reported for open canopy forest to non-forest and for flooding on a global scale.

Forest cover is defined by using the Vegetation Continuous Fields product ([MOD44B](#)) and considering anything with 60% tree cover or more to be forest. This is consistent with the IGBP classification of a forest. Non-forest is defined as less than 40% tree cover. Any pixel that was identified as forest in year 1 and was then identified as non-forest in year 2 is flagged and recorded in one of the metrics layers. When all of the 16-day periods have been processed the metrics layers are compared. Any pixel that has been flagged in at least 2 of the metrics layers is recorded in the "labeled land cover change" layer. Per pixel confidence is indicated by the value in the valid range defined below. Only changes detected with a confidence of at least 80% are reported.

**NOTE:** These products are still experimental in nature upon their initial release. Investigations are underway to assess the scientific validity of these products.

Valid Range: 0 - 2

0: No change detected

1: Closed canopy deforestation detected with 90% confidence level

2: Closed canopy deforestation detected with 80% confidence level

SDS	Data Type	Fill Value	Valid Range
Land Cover Change Metrics Past 3 Months	16-bit unsigned integer	0	0 - 65535

Labeled Land Cover Change Past 3 Months	8-bit unsigned integer	0	0 - 255
Labeled Land Cover Change Past 3 Months QA	8-bit unsigned integer	0	0 - 255
Algorithm Path Past 3 Months	16-bit unsigned integer	0	0 - 65535
Land Cover Change Metrics Past 1 Year	16-bit unsigned integer	0	0 - 65535
Labeled Land Cover Change Past 1 Year	8-bit unsigned integer	0	0 - 255
Labeled Land Cover Change Past 1 Year QA	8-bit unsigned integer	0	0 - 255
Algorithm Path Past 1 Year	16-bit unsigned integer	0	0 - 65535

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### Order Data through the EOS Data Gateway

( <http://edcimswww.cr.usgs.gov/pub/imswelcome/>)

### EOS Data Gateway Search Tips

**Data Center:** EDC-ECS

**Sensor:** MODIS

**Dataset:** MODIS/Terra Vegetation Cover Conversion 32-Day L3 Global 250m ISIN Grid

**Spatial:** HORIZONTALTILENUMBER Max/Min VERTICALTILENUMBER Max/Min

**Geographic Extent:** Type Lat/Long Range or Draw on Map

**Temporal Extent:** 2001-04-07 through 2002-04-07

### Retrieve Data through the LP DAAC Data Pool

(<http://LPDAAC.usgs.gov/tutorial/datapool.html>)

### Product Information

#### [Product Description](#)

(<http://modis.umiacs.umd.edu/vcc.htm>)

#### [User Guide](#)

([http://modis.umiacs.umd.edu/documents/MOD44A\\_User\\_Guide\\_v3.0.0.pdf](http://modis.umiacs.umd.edu/documents/MOD44A_User_Guide_v3.0.0.pdf))

#### [Algorithm Theoretical Basis Document\(ATBD\)](#)

([http://eosps0.gsfc.nasa.gov/eos\\_homepage/for\\_scientists/atbd/viewInstrument.php?instrument=MODIS](http://eosps0.gsfc.nasa.gov/eos_homepage/for_scientists/atbd/viewInstrument.php?instrument=MODIS))

#### [MODIS Standard Data Products Catalog](#)

(<http://modis.gsfc.nasa.gov/data/dataproducts.html>)

#### [EOS Data Products Handbook Volume 1 \(2000\)](#)

([http://eosps0.gsfc.nasa.gov/eos\\_homepage/for\\_scientists/data\\_products/vol1.php](http://eosps0.gsfc.nasa.gov/eos_homepage/for_scientists/data_products/vol1.php))

### Contact Information

[LP DAAC User Services](#)

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