EDG Data Set Name

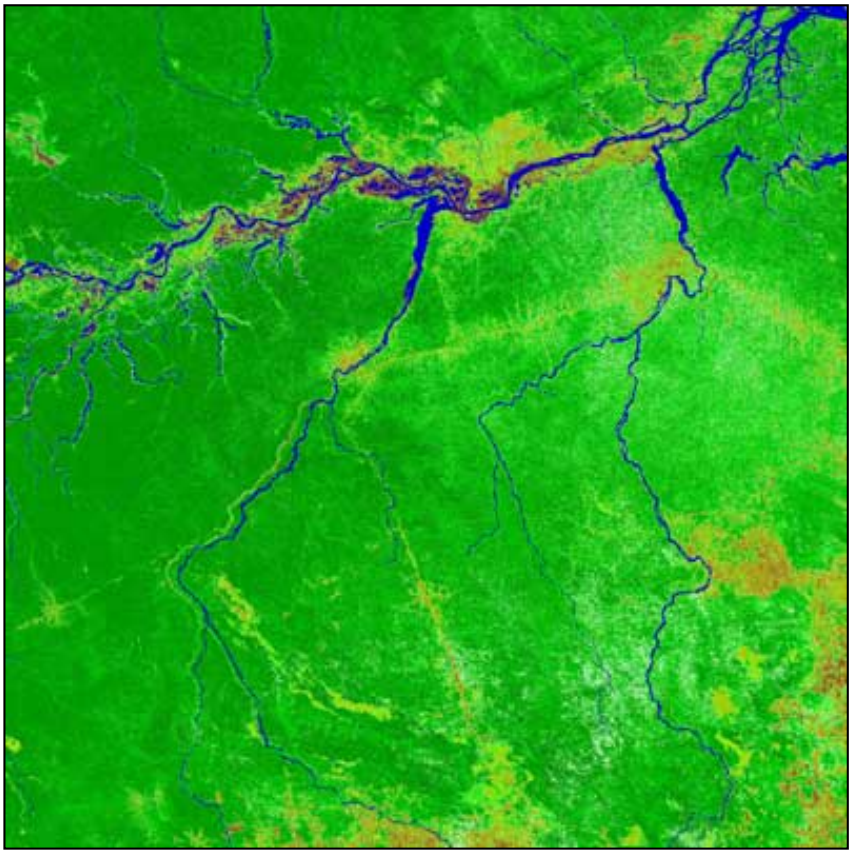
MODIS/Terra Vegetation Continuous Fields Yearly L4 Global 500m ISIN Grid

Granule Shortname

MOD44B

Version	Acquisition Range	Science Quality Status
V003	November 1 2000 (2000305) to December 22 2001 (2001357)	Validated Stage 1

Data Set Characteristics
Area = ~ 10° x 10° lat/long
Image Dimensions = 2 (2400x2400 row/column)
Average File Size = 66 MB
Resolution = 500 meters
Projection = Integerized Sinusoidal
Data Format = HDF-EOS
Science Data Sets (SDSs) = 12



Product Description
Proportional estimates of cover are developed from global training data derived using high-resolution imagery. The training data and phenological metrics are used with a regression tree to derive percent cover globally. The model is then used to estimate aerial proportions of:

1) life form (proportion of woody vegetation, herbaceous vegetation, or bare ground),

2) leaf type (proportion of woody vegetation that is needleleaf or broadleaf)

3) leaf longevity (proportion of woody vegetation that is evergreen or deciduous).

The current version of the MODIS Vegetation Continuous Fields product contains only percent tree cover, percent nontree vegetation, and percent bare with the other layers to follow in later releases. This product was generated from monthly composites of 500 meter resolution MODIS data. The MOD09A1 Surface Reflectance 8 day composites were used as inputs to the 32 day composites. Compositing was based on the second darkest albedo to remove clouds and cloud shadow. All 7 500m bands were used to derive metrics for the calculation of percent tree cover with metrics derived from bands 1 and 3 providing the most discriminatory power.

The image displays the percent tree cover in the northern part of Brazil along the Amazon River composited between November and December 2001. Green values represent increasing percentages per 500m pixel of tree cover, and yellow to brown values show decreasing percentages.

NOTE: These products are provisional, meaning that product quality may not be optimal. Incremental product improvements are still occurring, and users are urged to contact MODIS Science Team representatives prior to use of the data in publications. These data are likely to be replaced when the validated product becomes available.

SDS	Units	Data Type	Fill Value	Valid Range
Percent Tree Cover	percent	8-bit unsigned integer	251 bad data 253 water 255 interrupted space	0 - 100
Percent Broadleaf	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Needleleaf	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Evergreen	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Deciduous	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Nontree Vegetation	percent	8-bit unsigned integer	251 bad data 253 water 255 interrupted space	0 - 100
Percent Shrubs	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Crops	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Other Herbaceous	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Bare	percent	8-bit unsigned integer	251 bad data 253 water 255 interrupted space	0 - 100
Percent Ice	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*
Percent Bare Ground	*percent*	*8-bit unsigned integer*	*252*	*0 - 100*

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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 Continuous Fields Yearly L4 Global 500m ISIN Grid
Spatial: HORIZONTALTILENUMBER Max/Min VERTICALTILENUMBER Max/Min
Geographic Extent: Type Lat/Long Range or Draw on Map
Temporal Extent: 2000-11-1 through 2001-12-12

Retrieve Data through the LP DAAC Data Pool
(http://LPDAAC.usgs.gov/tutorial/datapool.html)

Product Information

Product Description
(http://modis.umiacs.umd.edu/main.htm)
User Guide Download Adobe Acrobat Reader
(http://modis.umiacs.umd.edu/documents/MOD44B_User_Guide_v3.0.0.pdf) Download Adobe Acrobat Reader

Algorithm Theoretical Basis Document (ATBD)
(http://eospso.gsfc.nasa.gov/eos_homepage/for_scientists/atbd/viewInstrument.php?instrument=MODIS)

MODIS Standard Data Products Catalog
(http://modis.gsfc.nasa.gov/data/dataprod/descchart.html)

EOS Data Products Handbook Volume 1 (2000)
(http://eospso.gsfc.nasa.gov/eos_homepage/misc_html/data_prod.html)

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