

# Land Processes Distributed Active Archive Center



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## EDG Data Set Name

MODIS/Terra Surface Reflectance Daily L2G Global 500m ISIN Grid

## Granule Shortname

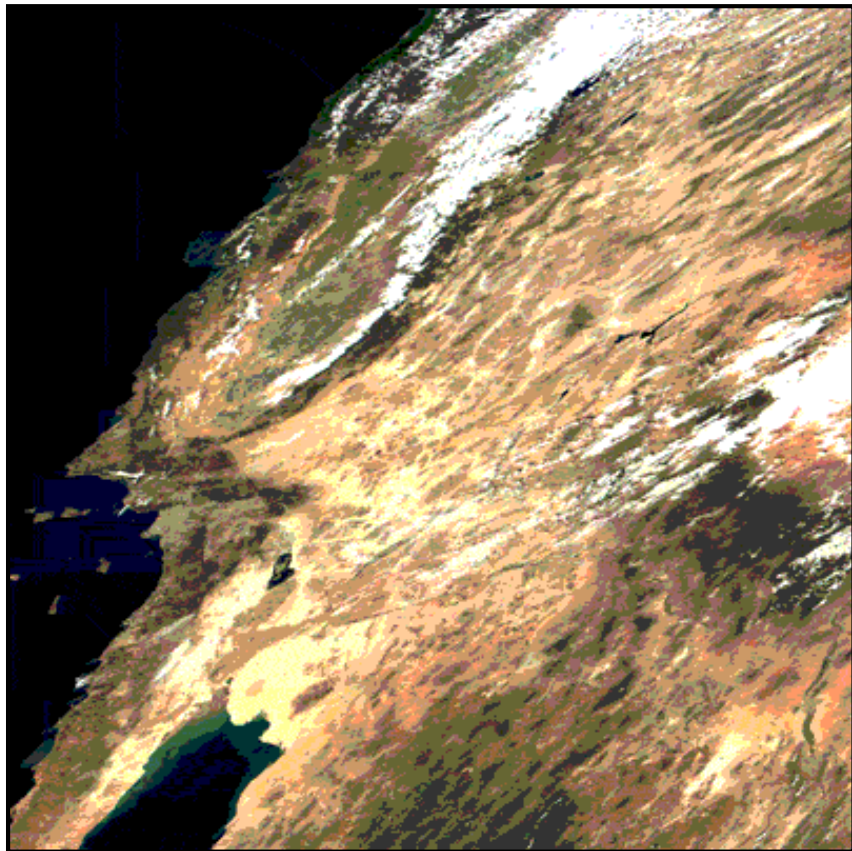
MOD09GHK

## Data Set Characteristics

Area = ~ 10° x 10° lat/long  
 Image Dimensions = 2400 x 2400 rows/columns  
 File Size = 50-500 MB  
 Resolution = ~500 meters  
 Projection = Integerized Sinusoidal  
 Data Format = HDF-EOS  
 Science Data Sets (SDSs) = 10

## Product Description

The MODIS Surface Reflectance Daily L2G Global 500m ISIN Grid product, MOD09, is a seven-band product computed from the MODIS Level 1B land bands 1-7. The product is an estimate of the surface spectral reflectance for each band as it would have been measured at ground level if there were no atmospheric scattering or absorption. The correction scheme includes corrections for the effect of atmospheric gases, aerosols, and thin cirrus clouds; it is applied to all non-cloudy MOD35 Level 1B pixels that pass the Level 1B quality control. The correction uses band 26 to detect cirrus clouds, MOD05 for water vapor, MOD04 for aerosols, and MOD07 for ozone; the best available climatology data are used if the MODIS water vapor, aerosol, or ozone products are unavailable. The Level 2G surface reflectance product is the input for product generation for several land products: 8-day Surface Reflectance, Vegetation Indices (VIs), Bidirectional Reflectance Distribution Function (BRDF), thermal anomaly, snow/ice, and Fraction of Photosynthetically Active Radiation/Leaf Area Index (FPAR/LAI).



SDS	Units	Data Type	Fill Value	Valid Range	Scale Factor
Band 1 (620-670 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
Band 2 (841-876 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
Band 3 (459-479 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
Band 4 (545-565 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
Band 5 (1230-1250 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
Band 6 (1628-1652 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
Band 7 (2105-2155 nm)	Reflectance	16-bit integer	-28672	-100 - 16000	10000
QC Flags	Bit field	32-bit unsigned integer	787410671	0 - 4294966019	na
Orbit and Coverage	na	8-bit integer	15	0 - 255	na

Number of observations	na	8-bit integer	-1	0 - 127	na
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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 Surface Reflectance Daily L2G Global 500m ISIN Grid

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

**Temporal Extent:** 2000-06-09 to present

### Product Information

#### [Product Description](#)

(<http://modis-land.gsfc.nasa.gov/products/products.asp?ProdFamID=2>)

#### [User Guide](#)

(<http://modis-land.gsfc.nasa.gov/mod09/>)

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

(<http://eosps0.gsfc.nasa.gov/atbd/modistables.html>)

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

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

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

([http://eosps0.gsfc.nasa.gov/eos\\_homepage/misc\\_html/data\\_prod.html](http://eosps0.gsfc.nasa.gov/eos_homepage/misc_html/data_prod.html))

### Contact Information

#### [LP DAAC User Services](#)

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*URL: <http://LPDAAC.usgs.gov/modis/mod09ghk.html>*

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*Last Update: Thursday, 03-Oct-2002 09:27:56 CDT*

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