

Notice to Data Users:
The documentation for this data set was provided solely by the Principal Investigator(s) and was not further developed, thoroughly reviewed, or edited by NSIDC. Thus, support for this data set may be limited.

SMEX04 Terra MODIS Data

Prepared by Andree Jacobson (UofA/TBRS/SWES) 8/01/2005
<http://tbrs.arizona.edu/>

Citing these data:

Huete, Alfredo, and Andree Jacobson. 2009. *SMEX04 Terra MODIS Data*.
Boulder, Colorado USA: NASA DAAC at the National Snow and Ice Data Center.

Products contained within this distribution:

MOD09A1
MOD09GHK
MOD09GQK
MOD09GST
MOD09Q1
MOD11A1
MOD13A2
MOD13C1
MOD13Q1
MOD15A2
MOD43B3
MOD43B4
MODMGGAD
MODPTHKM
MODPTQKM

For more information, refer to:

https://lpdaac.usgs.gov/lpdaac/products/modis_products_table

All products are reprojected using the MODIS Reprojection Tool
available at:

https://lpdaac.usgs.gov/lpdaac/tools/modis_reprojection_tool

ENVI Header files are provided for each data granule. Please note that
the map information in these files is provided in such a way that the
upper left-hand corner coordinate represents *THE CENTER* of that
pixel.

Projection information:

SINUSOIDAL PROJECTION PARAMETERS (Original data):

Radius of Sphere:	6371007.181000 meters
Longitude of Center:	0.000000 degrees
False Easting:	0.000000 meters

False Northing: 0.000000 meters
Datum: WGS84

UNIVERSAL TRANSVERSE MERCATOR (UTM) PROJECTION PARAMETERS:

Zone: 12
Semi-Major Axis of Ellipsoid: 6378137.000000 meters
Semi-Minor Axis of Ellipsoid: 6356752.314140 meters
Scale Factor at C. Meridian: 0.999600
Longitude of Central Meridian: -111.000000 degrees
Datum: NAD83 - CONUS
Resampling type: Nearest Neighbor

Pixel sizes for various spatial resolutions:

250 m = 231.656358 meters (1603 lines x 1172 samples)
500 m = 463.312717 meters (802 lines x 586 samples)
1 km = 926.625433 meters (401 lines x 293 samples)

Input image spatial subset corners (lat, lon):

UL: (32.69, -111.42)
UR: (32.69, -108.63)
LL: (29.36, -111.42)
LR: (29.36, -108.63)

The spatial coverage in the files may vary slightly depending on the spatial resolution. However, each data granule has an ENVI header file that contains the proper dimensions for that particular granule.

Product specific projection information:

(Coordinates below are absolute corner points, not center-pixel corners)

MOD09A1: output image corners (lat/lon):

UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MOD09GHK: output image corners (lat/lon):

UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MOD09GST: output image corners (lat/lon):

UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MOD11A1: output image corners (lat/lon):

UL: 32.707668419221 -111.438073618773
UR: 32.684347005356 -108.542173663784
LL: 29.354962997643 -111.422987452806

LR: 29.334522728775 -108.626719714017

MOD09Q1: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.357053752583 -111.422996090427
LR: 29.336611746912 -108.626671304322

MOD13Q1: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.357053752583 -111.422996090427
LR: 29.336611746912 -108.626671304322

MOD15A2: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MODMGGAD: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MODPTHKM: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MODPTQKM: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.357053752583 -111.422996090427
LR: 29.336611746912 -108.626671304322

MOD43B3: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MOD43B4: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MOD09GQK: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.357053752583 -111.422996090427
LR: 29.336611746912 -108.626671304322

MOD13A2: output image corners (lat/lon):

UL: 32.707668419221 -111.438073618773
UR: 32.684347005361 -108.542173664043
LL: 29.354962997943 -111.422987452807
LR: 29.334522729080 -108.626719714261

MOD13C1: output image corners (lat/lon):
UL: 32.707668419221 -111.438073618773
UR: 32.684235302230 -108.536481750262
LL: 29.348806908019 -111.422962025220
LR: 29.328273870994 -108.621365976663

MOD13C1 Input projection info: GEO, WGS84