

MOD

1. **FILENAME:** MOD09A1.A2006361.h00v08.004.2007006103308.hdf (ftp link: [here](#)) (Filesize=154.0MB)
- It is a grid file with 1 grids. Namely: MOD_Grid_500m_Surface_Reflectance.
- It has regular dimensions called XDim (2400) and YDim (2400).
- | GridName | DimensionList | Projection |
|-----------------------------------|---------------------------|------------|
| MOD_Grid_500m_Surface_Reflectance | No dimension names listed | SNSOID |
- Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection
- Values of 0, 65535, -28672, and 4294967295 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.

GROUP1: MOD_Grid_500m_Surface_Reflectance

DataFieldName	#Dimension (DimList)
sur_refl_qc_500m	2-D (YDim, XDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
sur_refl_qc_500m	long_name	Surface_reflectance_500m_quality_control_flags	8-bit character	46
	units	bit field	8-bit character	9

2. **FILENAME:** MOD09GA.A2007268.h10v08.005.2007272184810.hdf (ftp link: [here](#)) (Filesize=36.4MB)
- It is a grid file with 2 grids. Namely: MODIS_Grid_1km_2D and MODIS_Grid_500m_2D. It also has 9 datasets.
- It is a hybrid file.
- It has regular dimensions called XDim and YDim.
- | GridName | DimensionList | Projection |
|--------------------|---------------------------|------------|
| MODIS_Grid_1km_2D | No dimension names listed | SNSOID |
| MODIS_Grid_500m_2D | No dimension names listed | SNSOID |
- Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection
- Values of 0, 255, 65535, -32767, and -1 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.

Datasets

DatasetName	#Dimension (DimList)
nadd_obs_row_1km	1-D (1200)
SensorZenith_c	1-D (553771)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SensorZenith_c	long_name	Sensor zenith - additional layers, compact	8-bit character	42
	units	degree	8-bit character	6

GROUP1: MODIS_Grid_1km_2D

DataFieldName	#Dimension (DimList)
SensorZenith_1	2-D (YDim (1200), XDim (1200))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SensorZenith_1	long_name	Solar zenith - first layer	8-bit character	26
	units	degree	8-bit character	6

GROUP2: MODIS_Grid_500m_2D				
DataFieldName		#Dimension (DimList)		
num_observations_500m		2-D (YDim (2400), XDim (2400))		
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
num_observations_500m	long_name	Number of Observations	8-bit character	22
	units	none	8-bit character	4
3.	FILENAME: MOD09GHK.A2007001.h31v08.004.2007003192844.hdf (ftp link: here) (Filesize=111.0 MB)			
	It is a grid file with 1 grids. Namely: MOD_Grid_L2g_2d. It also has 10 datasets.			
	It is a hybrid file.			
	It has regular dimensions called XDim (2400) and YDim (2400).			
	GridName	DimensionList	Projection	
	MOD_Grid_L2g_2d	<i>No dimension names listed</i>	SNSOID	
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection			
	Values of -28672, -1, 15, and 787410671 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.			
Datasets				
DatasetName		#Dimension (DimList)		
nadd_obs_row		1-D (2400)		
orb_cov_c		1-D (24305)		
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
nadd_obs_row	long_name	Number of additional observations per row	8-bit character	41
	units	none	8-bit character	4
GROUP1: MOD_Grid_L2g_2d				
DataFieldName		#Dimension (DimList)		
num_observations		2-D (YDim, XDim)		
4.	FILENAME: MOD09GQ.A2007265.h01v10.005.2007269114142.hdf (ftp link: here) (Filesize=41.6 MB)			
	It is a grid file with 1 grids. Namely: MODIS_Grid_2D.			
	It has regular dimensions called XDim (4800) and YDim (4800).			
	GridName	DimensionList	Projection	
	MODIS_Grid_2D	<i>No dimension names listed</i>	SNSOID	
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection			
	Values of -28672, -1, and 2995 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.			
GROUP1: MODIS_Grid_2D				
DataFieldName		#Dimension (DimList)		
num_observations		2-D (YDim, XDim)		
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
num_observations	long_name	Number of Observations	8-bit character	22
	units	none	8-bit character	4
5.	FILENAME: MOD09Q1.A2007057.h33v09.005.2007086123037.hdf (ftp link: here) (Filesize=57.8 MB)			

	It is a grid file with 1 grids. Namely: MOD_Grid_250m_Surface_Reflectance.														
	It has regular dimensions called XDim (4800) and YDim (4800).														
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MOD_Grid_250m_Surface_Reflectance</td> <td>No dimension names listed</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MOD_Grid_250m_Surface_Reflectance	No dimension names listed	SNSOID								
GridName	DimensionList	Projection													
MOD_Grid_250m_Surface_Reflectance	No dimension names listed	SNSOID													
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection														
	Values of -28672 and 65535 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.														
	GROUP1: MOD_Grid_250m_Surface_Reflectance														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>sur_refl_b01</td> <td>2-D (YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	sur_refl_b01	2-D (YDim, XDim)										
DataFieldName	#Dimension (DimList)														
sur_refl_b01	2-D (YDim, XDim)														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> </thead> <tbody> <tr> <td rowspan="2">sur_refl_b01</td> <td>long_name</td> <td>Surface_reflectance_for_band_1</td> <td>8-bit character</td> <td>30</td> </tr> <tr> <td>units</td> <td>reflectance</td> <td>8-bit character</td> <td>11</td> </tr> </tbody> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	sur_refl_b01	long_name	Surface_reflectance_for_band_1	8-bit character	30	units	reflectance	8-bit character	11
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
sur_refl_b01	long_name	Surface_reflectance_for_band_1	8-bit character	30											
	units	reflectance	8-bit character	11											
6.	FILENAME: MOD09Q1.A2007137.h01v10.005.2007151115941.hdf (ftp link: here) (Filesize=48.1 MB)														
	It is a grid file with 1 grids. Namely: MOD_Grid_250m_Surface_Reflectance.														
	It has regular dimensions called XDim (4800) and YDim (4800).														
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MOD_Grid_250m_Surface_Reflectance	No dimension names listed	SNSOID													
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sur_refl_b01	long_name	Surface_reflectance_for_band_1	8-bit character	30											
	units	reflectance	8-bit character	11											
7.	FILENAME: MOD11A1.A2007269.h07v05.005.2007272064300.hdf (ftp link: here) (Filesize=189.0 KB)														
	It is a grid file with 1 grids. Namely: MODIS_Grid_Daily_1km_LST.														
	It has regular dimensions called XDim (1200) and YDim (1200).														
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MODIS_Grid_Daily_1km_LST</td> <td>No dimension names listed</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MODIS_Grid_Daily_1km_LST	No dimension names listed	SNSOID								
GridName	DimensionList	Projection													
MODIS_Grid_Daily_1km_LST	No dimension names listed	SNSOID													
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection														
	Values of 0 and 255 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.														
	GROUP1: MODIS_Grid_Daily_1km_LST														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>Day_view_time</td> <td>2-D (YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	Day_view_time	2-D (YDim, XDim)										
DataFieldName	#Dimension (DimList)														
Day_view_time	2-D (YDim, XDim)														
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DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
Day_view_time	long_name	Time of daytime Land-surface Temperature observation	8-bit character	52											
	units	hrs	8-bit character	3											

8.	FILENAME: MOD11A2.A2007129.h34v09.005.2007140181908.hdf (ftp link: here) (Filesize=1.1 MB)													
	It is a grid file with 1 grids. Namely: MODIS_Grid_8Day_1km_LST.													
	It has regular dimensions called XDim (1200) and YDim (1200).													
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MODIS_Grid_8Day_1km_LST</td> <td>No dimension names listed</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MODIS_Grid_8Day_1km_LST	No dimension names listed	SNSOID							
	GridName	DimensionList	Projection											
	MODIS_Grid_8Day_1km_LST	No dimension names listed	SNSOID											
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection													
	Values of 0 and 255 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.													
	GROUP1: MODIS_Grid_8Day_1km_LST													
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>Day_view_time</td> <td>2-D (YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	Day_view_time	2-D (YDim, XDim)									
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DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize										
Day_view_time	long_name	Average time of daytime Land-surface Temperature observation	8-bit character	60										
	units	hrs	8-bit character	3										
9.	FILENAME: MOD11B1.A2007283.h15v17.005.2007286023633.hdf (ftp link: here) (Filesize=140.0 KB)													
	It is a grid file with 1 grids. Namely: MODIS_Grid_Daily_6km_LST.													
	It has regular dimensions called XDim (200) and YDim (200).													
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MODIS_Grid_Daily_6km_LST</td> <td>No dimension names listed</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MODIS_Grid_Daily_6km_LST	No dimension names listed	SNSOID							
	GridName	DimensionList	Projection											
	MODIS_Grid_Daily_6km_LST	No dimension names listed	SNSOID											
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection													
	Values of 0 and 255 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.													
	GROUP1: MODIS_Grid_Daily_6km_LST													
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>Day_view_time</td> <td>2-D (YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	Day_view_time	2-D (YDim, XDim)									
DataFieldName	#Dimension (DimList)													
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DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize										
Day_view_time	long_name	Time of daytime Land-surface Temperature observation	8-bit character	52										
	units	hrs	8-bit character	3										
10.	FILENAME: MOD11C2.A2007073.005.2007098050130.hdf (ftp link: here) (Filesize=69.7 MB)													
	It is a grid file with 1 grids. Namely: MODIS_8DAY_0.05DEG_CMG_LST.													
	It has regular dimensions called XDim (7200) and YDim (3600).													
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MODIS_8DAY_0.05DEG_CMG_LST</td> <td>No dimension names listed</td> <td>GEO</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MODIS_8DAY_0.05DEG_CMG_LST	No dimension names listed	GEO							
	GridName	DimensionList	Projection											
	MODIS_8DAY_0.05DEG_CMG_LST	No dimension names listed	GEO											
	Values of 0 and 255 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.													
	GROUP1: MODIS_8DAY_0.05DEG_CMG_LST													
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	DataFieldName	#Dimension (DimList)												
Day_view_time	2-D (YDim, XDim)													
<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> </thead> <tbody> <tr> <td>Day_view_time</td> <td>long_name</td> <td>Average time of daytime LST</td> <td>8-bit character</td> <td>45</td> </tr> </tbody> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	Day_view_time	long_name	Average time of daytime LST	8-bit character	45				
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize										
Day_view_time	long_name	Average time of daytime LST	8-bit character	45										

			observation (UTC)		
		units	hrs	8-bit character	3
11.	FILENAME: MOD11C3.A2007032.005.2007067132438.hdf (ftp link: here) (Filesize=76.0 MB)				
	It is a grid file with 1 grids. Namely: MODIS_MONTHLY_0.05DEG_CMG_LST.				
	It has regular dimensions called XDim (7200) and YDim (3600).				
	GridName	DimensionList		Projection	
	MODIS_MONTHLY_0.05DEG_CMG_LST	No dimension names listed		GEO	
	Values of 0 and 255 are used for '_FillValue.' The file is missing the 'missing_value' attribute.				
	GROUP1: MODIS_MONTHLY_0.05DEG_CMG_LST				
	DataFieldName		#Dimension (DimList)		
	Day_view_time		2-D (YDim, XDim)		
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	Day_view_time	long_name	Average time of daytime LST observation (UTC)	8-bit character	45
		units	hrs	8-bit character	3
12.	FILENAME: MOD11_L2.A2007278.0350.005.2007280073443.hdf (ftp link: here) (Filesize=4.1 MB)				
	It is a swath file with one group (namely: MOD_Swath_LST) and two dimension map.				
	There are 4 different dimension names: Along_swath_lines_1km (2030), Cross_swath_pixels_1km (1354), Coarse_swath_lines_5km (406), Coarse_swath_pixels_5km (271).				
	This swath uses the dimension map. Users need to either find the corresponding geolocation HDF-EOS2 files or calculate the latitude/longitude based on dimension map parameters.				
	Values of 0 and 255 are used for '_FillValue.' The file is missing the 'missing_value' attribute.				
	GROUP1: MOD_Swath_LST				
	GeoFieldName		#Dimension (DimList)		
	Latitude		2-D (Coarse_swath_lines_5km, Coarse_swath_pixels_5km)		
	Longitude		2-D (Coarse_swath_lines_5km, Coarse_swath_pixels_5km)		
	DataFieldName		#Dimension (DimList)		
	View_time		2-D (Along_swath_lines_1km, Cross_swath_pixels_1km)		
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	Latitude	long_name	Latitude of every 5 scan lines and 5 pixels	8-bit character	43
		units	Degree	8-bit character	6
	Longitude	long_name	Longitude of every 5 scan lines and 5 pixels	8-bit character	44
		units	Degree	8-bit character	6
	Time	long_name	Time of Land-surface Temperature observation	8-bit character	43
		units	hrs	8-bit character	3
13.	FILENAME: MOD12Q1.A2004001.h01v08.004.2006117172443.hdf (ftp link: here) (Filesize=22.1 MB)				
	It is a grid file with 1 grids. Namely: MOD12Q1.				
	The data for all data fields only contain discrete value rather than continuous value, each specific value is provided by one attribute				

	It has regular dimensions called XDim (1200) and YDim (1200).														
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MOD12Q1</td> <td>Num_QC_Words (1)</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MOD12Q1	Num_QC_Words (1)	SNSOID								
GridName	DimensionList	Projection													
MOD12Q1	Num_QC_Words (1)	SNSOID													
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection														
	A value of 0 is used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.														
	GROUP1: MOD12Q1														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>Land_Cover_Type_1</td> <td>2-D (YDim, XDim)</td> </tr> <tr> <td>Land_Cover_Type_QC</td> <td>3-D (Num_QC_Words , YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	Land_Cover_Type_1	2-D (YDim, XDim)	Land_Cover_Type_QC	3-D (Num_QC_Words , YDim, XDim)								
DataFieldName	#Dimension (DimList)														
Land_Cover_Type_1	2-D (YDim, XDim)														
Land_Cover_Type_QC	3-D (Num_QC_Words , YDim, XDim)														
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DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
Land_Cover_Type_1	long_name	Land_Cover_Type_1	8-bit character	17											
	units	class number	8-bit character	12											
14.	FILENAME: MOD12Q2.A2004001.h00v10.004.2006025165000.hdf (ftp link: here) (Filesize=41.3 MB)														
	It is a grid file with 1 grids. Namely: MOD12Q2.														
	It has regular dimensions called XDim (1200) and YDim (1200).														
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MOD12Q2</td> <td>Num_QC_Words (1), Num_Modes (2)</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MOD12Q2	Num_QC_Words (1), Num_Modes (2)	SNSOID								
GridName	DimensionList	Projection													
MOD12Q2	Num_QC_Words (1), Num_Modes (2)	SNSOID													
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection														
	Values of 65535 and 32767 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.														
	GROUP1: MOD12Q2														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>Onset_Greenness_Increase</td> <td>3-D (YDim, XDim, Num_Modes)</td> </tr> <tr> <td>Dynamics_QC</td> <td>3-D (Num_QC_Words , YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	Onset_Greenness_Increase	3-D (YDim, XDim, Num_Modes)	Dynamics_QC	3-D (Num_QC_Words , YDim, XDim)								
DataFieldName	#Dimension (DimList)														
Onset_Greenness_Increase	3-D (YDim, XDim, Num_Modes)														
Dynamics_QC	3-D (Num_QC_Words , YDim, XDim)														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Dynamics_QC</td> <td>long_name</td> <td>Dynamics_QC</td> <td>8-bit character</td> <td>11</td> </tr> <tr> <td>units</td> <td>concatenated flags</td> <td>8-bit character</td> <td>18</td> </tr> </tbody> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	Dynamics_QC	long_name	Dynamics_QC	8-bit character	11	units	concatenated flags	8-bit character	18
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
Dynamics_QC	long_name	Dynamics_QC	8-bit character	11											
	units	concatenated flags	8-bit character	18											
15.	FILENAME: MOD13A1.A2007257.h09v05.005.2007277183254.hdf (ftp link: here) (Filesize=74.7 MB)														
	It is a grid file with 1 grids. Namely: MODIS_Grid_16DAY_500m_VI.														
	It has regular dimensions called XDim (2400) and YDim (2400).														
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MODIS_Grid_16DAY_500m_VI</td> <td><i>No dimension names listed</i></td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MODIS_Grid_16DAY_500m_VI	<i>No dimension names listed</i>	SNSOID								
GridName	DimensionList	Projection													
MODIS_Grid_16DAY_500m_VI	<i>No dimension names listed</i>	SNSOID													
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection														
	Values of -1, -1000, -3000, -4000, -10000, and 65535 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.														
	GROUP1: MODIS_Grid_16DAY_500m_VI														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> </thead> <tbody> <tr> <td>500m 16 days red reflectance</td> <td>2-D (YDim, XDim)</td> </tr> </tbody> </table>	DataFieldName	#Dimension (DimList)	500m 16 days red reflectance	2-D (YDim, XDim)										
DataFieldName	#Dimension (DimList)														
500m 16 days red reflectance	2-D (YDim, XDim)														
	<table border="1"> <thead> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> </thead> <tbody> <tr> <td>500m 16 days red</td> <td>long_name</td> <td>500m 16 days red reflectance</td> <td>8-bit character</td> <td>28</td> </tr> </tbody> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	500m 16 days red	long_name	500m 16 days red reflectance	8-bit character	28				
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
500m 16 days red	long_name	500m 16 days red reflectance	8-bit character	28											

	reflectance	units	reflectance	8-bit character	11
16.	FILENAME: MOD13A2.A2007097.h09v02.005.2007128204249.hdf (ftp link: here) (Filesize=1.6 MB)				
	It is a grid file with 1 grids. Namely: MODIS_Grid_16DAY_1km_VI.				
	It has regular dimensions called XDim (1200) and YDim (1200).				
	GridName		DimensionList		Projection
	MODIS_Grid_16DAY_1km_VI		No dimension names listed		SNSOID
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection				
	Values of -1, -1000, -3000, -4000, -10000, and 65535 are used for '_FillValue.' The file is missing the 'missing_value' attribute.				
	GROUP1: MODIS_Grid_16DAY_1km_VI				
	DataFieldName			#Dimension (DimList)	
	1 km 16 days red reflectance			2-D (YDim, XDim)	
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	
1 km 16 days red reflectance	long_name	1 km 16 days red reflectance	8-bit character	28	
	units	reflectance	8-bit character	11	
17.	FILENAME: MOD13A3.A2007182.h12v04.005.2007232191559.hdf (ftp link: here) (Filesize=15.6 MB)				
	It is a grid file with 1 grids. Namely: MOD_Grid_monthly_1km_VI.				
	It has regular dimensions called XDim (1200) and YDim (1200).				
	GridName		DimensionList		Projection
	MOD_Grid_monthly_1km_VI		No dimension names listed		SNSOID
	Values of -1, -1000, -3000, -4000, -10000, and 65535 are used for '_FillValue.' The file is missing the 'missing_value' attribute.				
	GROUP1: MOD_Grid_monthly_1km_VI				
	DataFieldName			#Dimension (DimList)	
	1 km monthly red reflectance			2-D (YDim, XDim)	
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
1 km monthly red reflectance	long_name	1 km monthly red reflectance	8-bit character	28	
	units	reflectance	8-bit character	11	
18.	FILENAME: MOD13C2.A2010213.005.2010263091009.hdf (ftp link: here) (Filesize=90.9 MB)				
	It is a grid file with 1 grids. Namely: MOD_Grid_monthly_CMG_VI.				
	The value of parameter 'Projection' is missing. Users have to check 'MODIS Products Table' to find the type of projection.				
	It has regular dimensions called XDim (7200) and YDim (3600).				
	GridName		DimensionList		Projection
	MOD_Grid_monthly_CMG_VI		No dimension names listed		GEO
	Values -3000, -1000, -1 65535, -10000, and 255 are used for '_FillValue.' The file is missing the 'missing_value' attribute.				
	GROUP1: MOD_Grid_monthly_CMG_VI				
	DataFieldName			#Dimension (DimList)	
	CMG 0.05 Deg Monthly red reflectance			2-D (YDim, XDim)	

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
CMG 0.05 Deg Monthly red reflectance	long_name	CMG 0.05 Deg Monthly red reflectance	8-bit character	36
	units	reflectance	8-bit character	11

19. **FILENAME:** MOD13Q1.A2007177.h00v09.005.2007204224158.hdf (ftp link: [here](#)) (Filesize=5.0 MB)

It is a grid file with 1 grids. Namely: MODIS_Grid_16DAY_250m_500m_VI.

It has regular dimensions called XDim (4800) and YDim (4800).

GridName	DimensionList	Projection
MODIS_Grid_16DAY_250m_500m_VI	No dimension names listed	SNSOID

Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection

Values of -1, -1000, -3000, -4000, -10000, and 65535 are used for ‘_FillValue.’ The file is missing the ‘missing_value’ attribute.

GROUP1: MODIS_Grid_16DAY_250m_500m_VI

DataFieldName	#Dimension (DimList)
250m 16 days red reflectance	2-D (YDim, XDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
250m 16 days red reflectance	long_name	250m 16 days red reflectance	8-bit character	28
	units	reflectance	8-bit character	11

20. **FILENAME:** MOD14.A2007101.0345.005.2007101114133.hdf (ftp link: [here](#)) (Filesize=5.0 MB)

It is not a HDFEOS file but an HDF4 file, it has 22 datasets. However, it has core-metadata and archive-metadata.

The data for all data fields only contain discrete value rather than continuous value, each specific value is provided by one attribute

FP_latitude and FP_longitude, which are substitute for latitude and longitude, has dimension of length zero. There are no values inside these fields.

Datasets

DatasetName	#Dimension (DimList)
FP_latitude	1-D (0)
FP_longitude	1-D (0)
algorithm QA	2-D (2040*1354)
CMG_night	2-D (15609*8)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
FP_latitude	long_name	latitude of fire pixel	8-bit character	22
	units	degrees	8-bit character	7
FP_longitude	long_name	longitude of fire pixel	8-bit character	23
	units	degrees	8-bit character	7
algorithm QA	units	bit field	8-bit character	9

21. **FILENAME:** MOD14A1.A2007249.h21v02.005.2007261075251.hdf (ftp link: [here](#)) (Filesize=1.2 MB)

It is a grid file with 1 grids. Namely: MODIS_Grid_Daily_Fire. It also has 1 V-dataset.

It has regular dimensions called XDim (1200) and YDim (1200).

GridName	DimensionList	Projection
MODIS_Grid_Daily_Fire	XDim, YDim, Number of Days (8)	SNSOID

	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection						
	A value of 0 is used for ‘_FillValue.’ The file does not have the ‘missing_value’ attribute.						
Datasets							
V-DatasetName	#Dimension (DimList)						
fptab	1-D (183)						
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize			
fptab		either of ‘units,’ ‘unit’ or ‘long_name’ not there					
GROUP1: MODIS_Grid_Daily_Fire							
DataFieldName	#Dimension (DimList)						
FireMask	3-D (Number of Days, YDim, XDim)						
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize			
FireMask		either of ‘units,’ ‘unit’ or long_name not there					
22.	FILENAME: MOD14A2.A2007169.h16v09.005.2007187224414.hdf (ftp link: here) (Filesize=330.0 KB)						
	It is a grid file with 1 grids. Namely: MODIS_Grid_8Day_Fire.						
	It has regular dimensions called XDim (1200) and YDim (1200).						
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MODIS_Grid_8Day_Fire</td> <td>XDim, YDim</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MODIS_Grid_8Day_Fire	XDim, YDim	SNSOID
GridName	DimensionList	Projection					
MODIS_Grid_8Day_Fire	XDim, YDim	SNSOID					
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection						
	A value of 0 is used for ‘_FillValue.’ The file does not have the ‘missing_value’ attribute.						
GROUP1: MODIS_Grid_8Day_Fire							
DataFieldName	#Dimension (DimList)						
FireMask	2-D (YDim, XDim)						
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize			
FireMask		either of ‘units,’ ‘unit’ or ‘long_name’ not there					
23.	FILENAME: MOD15A2.A2007257.h35v10.005.2007268203940.hdf (ftp link: here) (Filesize=330.0 KB)						
	It is a grid file with 1 grids. Namely: MOD_Grid_MOD15A2.						
	The data for all data fields only contain discrete value rather than continuous value, each specific value is provided by one attribute						
	It has regular dimensions called XDim (1200) and YDim (1200).						
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MOD_Grid_MOD15A2</td> <td>XDim, YDim</td> <td>SNSOID</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	MOD_Grid_MOD15A2	XDim, YDim	SNSOID
GridName	DimensionList	Projection					
MOD_Grid_MOD15A2	XDim, YDim	SNSOID					
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection						
	A value of 255 is used for ‘_FillValue.’ The file does not have the ‘missing_value’ attribute.						
GROUP1: MOD_Grid_MOD15A2							
DataFieldName	#Dimension (DimList)						
Fpar_1km	2-D (YDim, XDim)						
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize			
Fpar_1km	long_name	MOD15A2 MODIS/Terra	8-bit character	54			

			Gridded 1KM FPAR (8-day composite)		
		units	Percent	8-bit character	7
24.	FILENAME: MOD17A2.A2007113.h11v09.005.2007136163924.hdf (ftp link: here) (Filesize=3.4 MB)				
	It is a grid file with 1 grids. Namely: MOD_Grid_MOD17A2.				
	It has regular dimensions called XDim (1200) and YDim (1200).				
	GridName	DimensionList	Projection		
	MOD_Grid_MOD17A2	XDim, YDim	SNSOID		
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection				
	Values of 255 and 32767 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.				
	GROUP1: MOD_Grid_MOD17A2				
	DataFieldName	#Dimension (DimList)			
	Gpp_1km	2-D (YDim, XDim)			
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	Gpp_1km	long_name	MODIS/Terra Gross Primary Production (GPP) 8-Day L4 Global 1km SIN Grid	8-bit character	71
		units	kg_C_/m^2	8-bit character	9
25.	FILENAME: MOD43B1.A2006353.h20v16.004.2007006065645.hdf (ftp link: here) (Filesize=107.0 MB)				
	It is a grid file with 1 grids. Namely: MOD_Grid_BRDF.				
	It has regular dimensions called XDim (1200) and YDim (1200).				
	GridName	DimensionList	Projection		
	MOD_Grid_BRDF	Num_Type_Fields (2), Num_Land_Bands_Plus3 (10), Num_Parameters (3), Num_Shape_Fields (8), Num_QC_Words (2)	SNSOID		
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection				
	Values of 255 and 32767 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.				
	GROUP1: MOD_Grid_BRDF				
	DataFieldName	#Dimension (DimList)			
	BRDF_Shape_Indicators	3-D (YDim, XDim, Num_Shape_Fields)			
	BRDF_Albedo_Quality	3-D (YDim, XDim, Num_QC_Words)			
	BRDF_Type	3-D (YDim, XDim, Num_Type_Fields)			
	BRDF_Albedo_Parameters	4-D (YDim, XDim, Num_Land_Bands_Plus3, Num_Parameters)			
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	BRDF_Type	long_name	BRDF_Type	8-bit character	9
		units	model/type number	8-bit character	17
26.	FILENAME: MOD43B3.A2006353.h20v07.004.2007006191445.hdf (ftp link: here) (Filesize=66.0 MB)				
	It is a grid file with 1 grids. Namely: MOD_Grid_BRDF.				
	It has regular dimensions called XDim (1200) and YDim (1200).				
	GridName	DimensionList	Projection		
	MOD_Grid_BRDF	Num_Type_Fields, Num_Albedo_Bands, Num_Albedos, Num_QC_Words	SNSOID		

	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection														
	Values of 32767 and 4294967295 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.														
	GROUP1: MOD_Grid_BRDF														
	<table border="1"> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> <tr> <td>Albedo_Quality</td> <td>3-D (YDim, XDim, Num_QC_Words)</td> </tr> <tr> <td>Albedo</td> <td>4-D (YDim, XDim, Num_Albedo_Bands, Num_Albedos)</td> </tr> </table>	DataFieldName	#Dimension (DimList)	Albedo_Quality	3-D (YDim, XDim, Num_QC_Words)	Albedo	4-D (YDim, XDim, Num_Albedo_Bands, Num_Albedos)								
DataFieldName	#Dimension (DimList)														
Albedo_Quality	3-D (YDim, XDim, Num_QC_Words)														
Albedo	4-D (YDim, XDim, Num_Albedo_Bands, Num_Albedos)														
	<table border="1"> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> <tr> <td rowspan="2">Albedo</td> <td>long_name</td> <td>Albedo</td> <td>8-bit character</td> <td>6</td> </tr> <tr> <td>units</td> <td>albedo, no units</td> <td>8-bit character</td> <td>16</td> </tr> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	Albedo	long_name	Albedo	8-bit character	6	units	albedo, no units	8-bit character	16
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
Albedo	long_name	Albedo	8-bit character	6											
	units	albedo, no units	8-bit character	16											
27.	<p>FILENAME: MOD43B4.A2006353.h15v15.004.2007006030047.hdf (ftp link: here) (Filesize=30.3 MB)</p> <p>It is a grid file with 1 grids. Namely: MOD_Grid_BRDF.</p> <p>It has regular dimensions called XDim (1200) and YDim (1200).</p> <table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MOD_Grid_BRDF</td> <td>Num_Land_Bands, Num_QC_Words</td> <td>SNSOID</td> </tr> </tbody> </table> <p>Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection</p> <p>Values of 32767 and 4294967295 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.</p>	GridName	DimensionList	Projection	MOD_Grid_BRDF	Num_Land_Bands, Num_QC_Words	SNSOID								
GridName	DimensionList	Projection													
MOD_Grid_BRDF	Num_Land_Bands, Num_QC_Words	SNSOID													
	GROUP1: MOD_Grid_BRDF														
	<table border="1"> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> <tr> <td>Nadir_Reflectance_Quality</td> <td>3-D (YDim, XDim, Num_QC_Words)</td> </tr> <tr> <td>Nadir_Reflectance</td> <td>3-D (YDim, XDim, Num_Land_Bands)</td> </tr> </table>	DataFieldName	#Dimension (DimList)	Nadir_Reflectance_Quality	3-D (YDim, XDim, Num_QC_Words)	Nadir_Reflectance	3-D (YDim, XDim, Num_Land_Bands)								
DataFieldName	#Dimension (DimList)														
Nadir_Reflectance_Quality	3-D (YDim, XDim, Num_QC_Words)														
Nadir_Reflectance	3-D (YDim, XDim, Num_Land_Bands)														
	<table border="1"> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> <tr> <td rowspan="2">Nadir_Reflectance</td> <td>long_name</td> <td>Nadir_Reflectance</td> <td>8-bit character</td> <td>17</td> </tr> <tr> <td>units</td> <td>reflectance, no units</td> <td>8-bit character</td> <td>21</td> </tr> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize	Nadir_Reflectance	long_name	Nadir_Reflectance	8-bit character	17	units	reflectance, no units	8-bit character	21
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											
Nadir_Reflectance	long_name	Nadir_Reflectance	8-bit character	17											
	units	reflectance, no units	8-bit character	21											
28.	<p>FILENAME: MOD43C1.A2006353.004.2007008092801.hdf (ftp link: here) (Filesize=1.1 GB)</p> <p>It is a grid file with 1 grids. Namely: MOD_CMG_BRDF_0.05Deg.</p> <p>The parameter is wrong in StructMetadata. Parameter 'UpperLeftPoint/LowerRight Mtrs' should be packed in degrees, minutes, seconds format (DDDMMMSS.SS). In this file, this parameter doesn't follow the DDDMMMSS.SS format. In DDDMMMSS.SS format, the value of UpperLeftPoint should be (-180000000.000000,90000000.000000). But in this file, the UpperLeftPointMtrs is (-180.000000,89.500000)', which only shows the degrees. This will generate the wrong latitude and longitude values if one uses the HDF-EOS2 library to retrieve the latitude and longitude values.</p> <p>It has regular dimensions called XDim (7200) and YDim (3600).</p> <table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>MOD_CMG_BRDF_0.05Deg</td> <td>Num_Albedo_Bands</td> <td>GEO</td> </tr> </tbody> </table> <p>Values of 32767 and 4294967295 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.</p>	GridName	DimensionList	Projection	MOD_CMG_BRDF_0.05Deg	Num_Albedo_Bands	GEO								
GridName	DimensionList	Projection													
MOD_CMG_BRDF_0.05Deg	Num_Albedo_Bands	GEO													
	GROUP1: MOD_CMG_BRDF_0.05Deg														
	<table border="1"> <tr> <th>DataFieldName</th> <th>#Dimension (DimList)</th> </tr> <tr> <td>Albedo_Quality</td> <td>2-D (YDim, XDim)</td> </tr> <tr> <td>White_Sky_Albedo</td> <td>3-D (YDim, XDim, Num_Albedo_Bands)</td> </tr> </table>	DataFieldName	#Dimension (DimList)	Albedo_Quality	2-D (YDim, XDim)	White_Sky_Albedo	3-D (YDim, XDim, Num_Albedo_Bands)								
DataFieldName	#Dimension (DimList)														
Albedo_Quality	2-D (YDim, XDim)														
White_Sky_Albedo	3-D (YDim, XDim, Num_Albedo_Bands)														
	<table border="1"> <tr> <th>DataFieldName</th> <th>AttributeName</th> <th>AttributeValue</th> <th>AttributeType</th> <th>AttributeArraySize</th> </tr> </table>	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize									
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize											

	Albedo_Quality	long_name	Aggregated_Albedo_Quality	8-bit character	25
		units	concatenated flags	8-bit character	18
	Other MCD43C1, MCD43C3 files have similar structure				
29.	FILENAME: MOD43C2.A2006353.004.2007008104224.hdf (ftp link: here) (Filesize=1.54 GB)				
	It is a grid file with 1 grids. Namely: MOD_CMG_BRDF_0.05Deg.				
	It has regular dimensions called XDim (7200) and YDim (3600).				
	GridName	DimensionList	Projection		
	MOD_CMG_BRDF_0.05Deg	Num_Albedo_Bands	GEO		
	Values of 32767 and 4294967295 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.				
	GROUP1: MOD_CMG_BRDF_0.05Deg				
	DataFieldName	#Dimension (DimList)			
	BRDF_Albedo_Quality	2-D (YDim, XDim)			
	BRDF_Albedo_Parameter1	3-D (YDim, XDim, Num_Albedo_Bands)			
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	BRDF_Albedo_Quality	long_name	Aggregated_Albedo_Quality	8-bit character	25
		units	concatenated flags	8-bit character	18
30.	FILENAME: MODMGGAD.A2006364.h19v15.004.2007002051312.hdf (ftp link: here) (Filesize=83.5 MB)				
	It is a grid file with 1 grids. Namely: MOD_Grid_L2g_2d. It also has 7 datasets.				
	It is a hybrid file.				
	It has regular dimensions called XDim (1200) and YDim (1200).				
	GridName	DimensionList	Projection		
	MOD_Grid_L2g_2d	No dimension names listed	SNSOID		
	Some software tools requires extra steps to retrieve latitude and longitude for SNSOID projection				
	Values of -1, 0, 255, and -32767 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.				
	Datasets				
	DatasetName	#Dimension (DimList)			
	nadd_obs_row	1-D (1200)			
	SolarZenith_c	1-D (6357489)			
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	SolarZenith_c	long_name	Solar zenith - additional layer, compact	8-bit character	40
		units	degree	8-bit character	6
	GROUP1: MOD_Grid_L2g_2d				
	DataFieldName	#Dimension (DimList)			
	SolarZenith_1	2-D (YDim, XDim)			
	DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
	SolarZenith_1	long_name	Solar zenith - first layer	8-bit character	26
		units	degree	8-bit character	6