

OBPG_MODISA

OBPG_MODISA Level1

1. FILENAME: A2010001000000.L1A_LAC.hdf (ftp link: [here](#)) Filesize=204MB.

It is a pure HDF4 file.

Data field (SD_1km_day) has 3 dimensions: 2070 (fakeDim33) x 14 (fakeDim34) x64 (fakeDim35)
 Data field (EV_1km_night) has 3 dimensions: 2070 (fakeDim60) x 17 (fakeDim61) x1400 (fakeDim62)
 ...

There is no latitude and longitude information in the file.

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SD_1km_day	_FillValue	-1	16-bit integer	1
EV_1km_night	_FillValue	-1	16-bit integer	1
....				

Other MODISA_L1A files have similar structure

OBPG_MODISA Level2

2. FILENAME: A2010261120500.L2_LAC_SST.hdf (ftp link: [here](#)) Filesize=12.7MB.

It is a pure HDF4 file, there are 4 vgroups.

Data field (sst) has 2 dimensions (Number of Scan Lines: 2030, Pixels per Scan Line: 1354).

It has 2-dimensional 'Latitude' and 'Longitude' fields: 2030 (Number of Scan Lines) x 1354 (Number of Pixel Control Points) and One pair of latitude and longitude for the whole file.

Latitude Units: degrees; Longitude Units: degrees. It does not follow CF conventions.

A value of -32767 is commonly used for 'Fill_Value.' But name for fillvalue attribute does not follow CF conventions and is called 'bad_value'

Geo Field Name	AttributeName	AttributeValue	AttributeType	AttributeArraySize
latitude	units	degrees	8-bit character	8
longitude	units	degrees	8-bit character	8

Data Field Name	AttributeName	AttributeValue	AttributeType	AttributeArraySize
sst	slope	0.0050	32-bit floating-point	1
	Intercept	0.0	32-bit floating-point	1

Other MODISA_L2 files have similar structure

OBPG_MODISA Level3

3. FILENAME: A20021612002192.L3m_R32_NSST_4.hdf (ftp link: [here](#)) Filesize=106MB.

It is a pure HDF4 file containing two fields: l3m_data and l3m_qual.

Data field (l3m_data) has 2 dimensions (fakeDim0: 4320, fakeDim1: 8640).

Some data field attributes are stored in file properties, like attribute 'units'

There is no clear latitude and longitude information in the file. File attributes 'Latitude Step', 'Longitude Step', 'SW Point Latitude' and 'SW Point Longitude' should be used to calculate latitude and longitude

There is neither a 'Fill_Value' attribute nor a 'missing value' attribute. A value of 65535 is possibly used for

'Fill_Value'.

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
L3m_data	Slope	7.17185E-4	32-bit floating-point	1
	Intercept	-2.0	32-bit floating-point	1

Other MODISA_L3m files have similar structure