

LaRC\_MISR

1.	<b>FILENAME:</b> ACR3L2DM000405_20050408.HDF (ftp link: <a href="#">here</a> ) (Filesize=691.0 B)			
	It is a HDF4 file. It has 1 V-dataset.			
<b>Datasets</b>				
<b>DatasetName</b>	<b>#Dimension (DimList)</b>			
ACR3 Daily Mean	1-D (1)			
<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>	<b>AttributeArraySize</b>
ACR3 Daily Mean		either of 'units,' 'unit' or 'long_name' not there		

2.	<b>FILENAME:</b> MISR_AM1_ACP_APOP_F04_0005.hdf (ftp link: <a href="#">here</a> ) (Filesize=74.7 KB)			
	It is a HDF4 file. It has 7 V-datasets and 6 other datasets. It also provides core-metadata.			
<b>Datasets</b>				
<b>DatasetName</b>	<b>#Dimension (DimList)</b>			
Model number (dimension)	1-D (11)			
Scattering angle (dimension)	1-D (205)			
Band (dimension)	1-D (4)			
Classifier (dimension)	1-D (5)			
Spectral Phase Functions	3-D (11*205*4)			
Particle Fractional Spectral Optical Depth Per Classification	3-D (11*5*4)			
<b>V-DatasetName</b>	<b>#Dimension (DimList)</b>			
Summary Table	1-D (11)			
Bands	1-D (4)			
Particle Classification Indices	1-D (1)			
Scattering Angles	1-D (205)			
<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>	<b>AttributeArraySize</b>
Band (dimension)		either of 'units,' 'unit' or 'long_name' not there		
Bands		either of 'units,' 'unit' or 'long_name' not there		

3.	<b>FILENAME:</b> MISR_AM1_AGP_P001_F01_24.hdf (ftp link: <a href="#">here</a> ) (Filesize=101.0 MB)									
	It is a grid file with 2 grids. Namely: Standard and Regional. It also has 2 V-datasets.									
	It has regular dimensions called XDim and YDim.									
	It provides GeoLatitude and GeoLongitude in the datafield of group1.									
	The purpose of this file is to provide geo location information by geo fields 'GeoLongitude' and 'GeoLatitude' for other MISR files whose projection is SOM. They don't contain meaningful fields except 'GeoLatitude' and 'GeoLongitude'.									
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>Standard</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>Regional</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	Standard	SOMBlockDim (180)	SOM	Regional	SOMBlockDim (180)	SOM
GridName	DimensionList	Projection								
Standard	SOMBlockDim (180)	SOM								
Regional	SOMBlockDim (180)	SOM								
<b>Datasets</b>										
<b>V-DatasetName</b>	<b>#Dimension (DimList)</b>									
PerBlockMetadataCommon	1-D (180)									
<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>	<b>AttributeArraySize</b>						

	PerBlockMetadataCommon	either of 'units,' 'unit' or 'long_name' not there		
<b>GROUP1: Standard</b>				
	Geo Field Name	#Dimension (DimList)		
	GeoLatitude	3-D (SOMBlockDim , XDim (128), YDim (512))		
	GeoLongitude	3-D (SOMBlockDim , XDim, YDim)		
	Geo Field Name	AttributeName	AttributeValue	AttributeType
	GeoLatitude	either of 'units,' 'unit' or 'long_name' not there		
	GeoLongitude	either of 'units,' 'unit' or 'long_name' not there		
<b>GROUP2: Regional</b>				
	DataFieldName	#Dimension (DimList)		
	RegAveSceneElev	3-D (SOMBlockDim , XDim (8), YDim (32))		
	DataFieldName	AttributeName	AttributeValue	AttributeType
	RegAveSceneElev	either of 'units,' 'unit' or 'long_name' not there		
	Other MISR_**_AGP files have similar structure			
4.	<b>FILENAME:</b> MISR_AM1_AS_AEROSOL_FIRSTLOOK_P106_O043086_F12_0022.hdf (ftp link: <a href="#">here</a> ) (Filesize=26.6 MB)			
	It is a grid file with 8 grids. It also has four other groups, four datasets and 23 V-datasets.			
	It is a Hybrid file.			
	It has regular dimensions called XDim and YDim.			
	<b>GridName</b>	<b>DimensionList</b>	<b>Projection</b>	
	RegParamsAer	NBandDim (4), NParticleTypeDim (5), SOMBlockDim (180)	SOM	
	RegParamsPerMixture	NBandDim (4), NCamDim (9), NAerMixtureDim (74), SOMBlockDim (180)	SOM	
	RegParamsAlgDiagnostics	NBandDim (4), NCamDim (9), NAerMixtureDim (74), SOMBlockDim (180), NParticleTypeDim (5)	SOM	
	RegParamsEqRefl	NBandDim (4), NCamDim (9), SOMBlockDim (180)	SOM	
	RegParamsGeometry	NCamDim (9), SOMBlockDim (180)	SOM	
	RegParamsEnvironmental	SOMBlockDim (180)	SOM	
	SubregParamsAer	NBandDim (4), NCamDim (9), SOMBlockDim (180)	SOM	
	DomParamsAer	NAerMixtureDim (74), SOMBlockDim (180), NTauBinDim (60)	SOM	
	MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.			
	A value of -9999.0 is commonly used for '_FillValue.' The file does not have the 'missing_value' attribute.			
<b>Datasets</b>				
	Data set Name	#Dimension (DimList)		
	Model number (dimension)	1-D (21)		
	Scattering angle (dimension)	1-D (205)		
	....			
	V-Data set Name	#Dimension (DimList)		
	PerBlockMetadataCommon	1-D (175)		
	RetrAppMask Flag Legend	1-D (14)		

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Model number (dimension)		either of 'units,' 'unit' or 'long_name' not there		
PerBlockMetadataCommon		either of 'units,' 'unit' or 'long_name' not there		
<b>Groups</b>				
SwathQaVG				
DatasetName		#Dimension (DimList)		
SwathQaGlobal		1-D (1)		
BlockQaVG				
DatasetName		#Dimension (DimList)		
BlockQaGlobal		1-D (175)		
Component Particle Information				
DatasetName		#Dimension (DimList)		
Data Table		1-D (21)		
Spectral Phase Functions		3-D (21*205*4)		
.....				
Mixture Information				
DatasetName		#Dimension (DimList)		
Mixture Data		1-D (74)		
Mixture Spectral Phase Functions		3-D (4*205*74)		
.....				

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SwathQaGlobal		either of 'units,' 'unit' or 'long_name' not there		
BlockQaGlobal		either of 'units,' 'unit' or 'long_name' not there		
Data Table		either of 'units,' 'unit' or 'long_name' not there		
Mixture Data		either of 'units,' 'unit' or 'long_name' not there		

GROUP1: RegParamsAer				
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
RegBestEstimateAngstromExponent		3-D (SOMBlockDim, XDim (8), YDim (32))		
RegBestEstimateSpectralOptDepth		4-D (SOMBlockDim, XDim, YDim, NBandDim)		
RegBestEstimateNumberFraction		4-D (SOMBlockDim, XDim, YDim, NParticleTypeDim)		
RegBestEstimateSpectralOptDepthFraction		5-D (SOMBlockDim, XDim, YDim, NBandDim, NParticleTypeDim)		

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
RegBestEstimateNumberFraction		either of 'units,' 'unit' or 'long_name' not there		

GROUP2: RegParamsPerMixture				
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
RegLowestResidAngstromExponent		3-D (SOMBlockDim, XDim (8), YDim (32))		
RegLowestResidSpectralOptDepth		4-D (SOMBlockDim, XDim, YDim, NBandDim)		
AerRetrSuccFlagPerMixture		4-D (SOMBlockDim, XDim, YDim, NAerMixtureDim)		
RegLowestResidMixtureEqRefl		5-D (SOMBlockDim, XDim, YDim, NBandDim, NCamDim)		

OptDepthHetCalcPerBand	5-D (SOMBlockDim, XDim, YDim, NBandDim, NAerMixtureDim)
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DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
OptDepthHetCalcPerBand		either of 'units,' 'unit' or 'long_name' not there		

**GROUP3: RegParamsAlgDiagnostics**

DataFieldName	#Dimension (DimList)
RegSfcRetrOptDepth	3-D (SOMBlockDim, XDim (8), YDim (32))
RegMeanSpectralOptDepth	4-D (SOMBlockDim, XDim, YDim, NBandDim)
RegLowestResidNumberFraction	4-D (SOMBlockDim, XDim, YDim, NParticleTypeDim)
NumAcceptHetOptDepth	4-D (SOMBlockDim, XDim, YDim, NAerMixtureDim)
NumAcceptSubr	5-D (SOMBlockDim, XDim, YDim, NBandDim, NCamDim)
RegMeanSpectralOptDepthFraction	5-D (SOMBlockDim, XDim, YDim, NBandDim, NParticleTypeDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
RegSfcRetrOptDepth		either of 'units,' 'unit' or 'long_name' not there		

.....

Other MISR\_AM1\_AS\_AEROSOL files have similar structure

5. **FILENAME:** MISR\_AM1\_AS\_LAND\_FIRSTLOOK\_P106\_O043086\_F07\_0022.hdf (ftp link: [here](#)) (Filesize=85.1 MB)

It is a grid file with 2 grids. It also has 2 other groups and 7 V-datasets.

It has regular dimensions called XDim and YDim.

GridName	DimensionList	Projection
RegParamsLnd	NBandDim (4), NCamDim (9), NFparSfcTypeTotDim (10), SOMBlockDim (180)	SOM
SubregParamsLnd	NBandDim (4), NCamDim (9), NFparSfcTypeVegDim (6), SOMBlockDim (180)	SOM

MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR\_AGP file.

Values of 253 and -9999.0 are commonly used for '\_FillValue.' The file does not have the 'missing\_value' attribute.

**Datasets**

V-DatasetName	#Dimension (DimList)
PerBlockMetadataCommon	1-D (175)
RDQI Flag Legend	1-D (4)
BiomeBestEstimate Flag Legend	1-D (10)
LAIBestEstimateQA Flag Legend	1-D (5)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
PerBlockMetadataCommon		either of 'units,' 'unit' or 'long_name' not there		

**Groups**

SwathQaVG	DatasetName	#Dimension (DimList)

SwathQaGlobal	1-D (1)
BlockQaVG	
DatasetName	#Dimension (DimList)
BlockQaGlobal	1-D (175)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SwathQaGlobal		either of 'units,' 'unit' or 'long_name' not there		
BlockQaGlobal		either of 'units,' 'unit' or 'long_name' not there		

GROUP1: RegParamsLnd	
DataFieldName	#Dimension (DimList)
RegSfcRetrOptDepth	3-D (SOMBlockDim, XDim (8), YDim (32))
NormBlkSfcIrrad	4-D (SOMBlockDim, XDim, YDim, NBandDim)
ViewZenAng	4-D (SOMBlockDim, XDim, YDim, NCamDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
ViewZenAng		either of 'units,' 'unit' or 'long_name' not there		

GROUP2: SubregParamsLnd	
DataFieldName	#Dimension (DimList)
NDVI	3-D (SOMBlockDim, XDim (128), YDim (512))
LandBHR	4-D (SOMBlockDim, XDim, YDim, NBandDim)
LAIMean1	4-D (SOMBlockDim, XDim, YDim, NParSfcTypeVegDim)
LandHDRF	5-D (SOMBlockDim, XDim, YDim, NBandDim, NCamDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
NDVI		either of 'units,' 'unit' or 'long_name' not there		

Other MISR\_AM1\_AS\_LAND files have similar structure

6. **FILENAME:** MISR\_AM1\_CGAL\_2005\_F06\_0012.hdf (ftp link: [here](#)) (Filesize=50.1 MB)
- It is a grid file with 2 grids. It also has 61 datasets and V-datasets.
- It is Hybrid file.
- It has regular dimensions called XDim and YDim.
- | GridName               | DimensionList | Projection |
|------------------------|---------------|------------|
| AlbedoAverage_1_degree | Band (5)      | GEO        |
| AlbedoAverage_5_degree | Band (5)      | GEO        |
- This is a derived product, which creates a new group of data fields that are not belong to any grid. However, it does not provide latitude and longitude information for these data fields.
- The data fields name, like 'Restrictive albedo first moment - 5 deg', contains a special character (hyphen '-') and therefore requires a modification (Restrictive albedo first moment\_\_ 5 deg) for some software tools to be able to read it. CF conventions require the usage of only underscore of alphanumeric for variable and attribute names.
- A value of -9999.0 is commonly used for '\_FillValue.' The file does not have the 'missing\_value' attribute.

Datasets	
DatasetName	#Dimension (DimList)
Zonal expansive albedo average	3-D (180*5*3)

Local albedo histogram	5-D (10*5*3*3*220)
V-DatasetName	#Dimension (DimList)
Source file	1-D (5192)
Band Enumeration	1-D (5)
Latitude Enumeration	1-D (180)
Time of Observations AlbedoAverage_5_degree	1-D (384601)
Time of Observations AlbedoAverage_5_degree	1-D (2318605)
.....	

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Local albedo histogram		either of 'units,' 'unit' or 'long_name' not there		
Source file		either of 'units,' 'unit' or 'long_name' not there		

GROUP1: AlbedoAverage_1_degree	
DataFieldName	#Dimension (DimList)
Average fill flag - 1 deg	2-D (YDim (180), XDim (360))
Expansive albedo average - 1 deg	3-D (YDim, XDim, Band)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Average fill flag - 1 deg		either of 'units,' 'unit' or 'long_name' not there		

GROUP2: AlbedoAverage_5_degree	
DataFieldName	#Dimension (DimList)
Average fill flag - 5 deg	2-D (YDim (36), XDim (72))
Expansive albedo average - 5 deg	3-D (YDim, XDim, Band)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Average fill flag - 5 deg		either of 'units,' 'unit' or 'long_name' not there		

Other MISR\_ AM1\_ CGAL files have similar structure

7. **FILENAME:** MISR\_AM1\_CGAS\_2000\_F02\_0008.hdf (ftp link: [here](#)) (Filesize=3.1 MB)

It is a grid file with 1 grid. It also has 6 V-datasets.

It has regular dimensions called XDim and YDim.

GridName	DimensionList	Projection
AerosolParameterAverage	AlgorithmType (8)	GEO

Values of 0 and -9999.0 are used for '\_FillValue.' The file does not have the 'missing\_value' attribute.

Datasets	
V-DatasetName	#Dimension (DimList)
Source file	1-D (3468)
Algorithm Type Enumeration	1-D (8)
Optical depth average Statistic	1-D (1)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Source file		either of 'units,' 'unit' or 'long_name' not there		

<b>GROUP1: AerosolParameterAverage</b>				
DataFieldName		#Dimension (DimList)		
Algorithm type count		2-D (YDim (360), XDim (720))		
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Algorithm type count	either of 'units,' 'unit' or 'long_name' not there			
MISR_AM1_CGAS_FIRSTLOOK , OCT and SPR files have similar structure				
8.	<b>FILENAME:</b> MISR_AM1_CGAS_MAR_01_2006_SITE_INTEXB_F06_0021.hdf (ftp link: <a href="#">here</a> ) (Filesize=77.4 KB)			
	It is a grid file with 1 grid. It also has 7 V-datasets.			
	It has regular dimensions called XDim and YDim.			
	<b>GridName</b>	<b>DimensionList</b>	<b>Projection</b>	
	AerosolParameterAverage	AlgorithmType (8)	LAMAZ	
	The HDF-EOS2 library can retrieve the latitude and longitude correctly.			
	Values of 0 and -9999.0 are used for '_FillValue.' The file does not have the 'missing_value' attribute.			
<b>Datasets</b>				
V-DatasetName		#Dimension (DimList)		
Source file		1-D (12)		
Algorithm Type Enumeration		1-D (8)		
Optical depth average Statistic		1-D (1)		
Time of Observations AerosolParameterAverage		1-D (803)		
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Source file	either of 'units,' 'unit' or 'long_name' not there			
<b>GROUP1: AerosolParameterAverage</b>				
DataFieldName		#Dimension (DimList)		
Average fill flag		2-D (YDim (68), XDim (64))		
Algorithm type count		3-D (YDim, XDim, AlgorithmType)		
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Algorithm type count	either of 'units,' 'unit' or 'long_name' not there			
Other MISR_AM1_CGAS_MAR files have similar structure				

9.

**FILENAME:** MISR\_AM1\_CGGRP\_FIRSTLOOK\_AUG\_30\_2007\_F02\_0023.hdf (ftp link: [here](#)) (Filesize=93.2 MB)

It is a grid file with 2 grids. It also has 14 V-datasets.

It has regular dimensions called XDim and YDim.

GridName	DimensionList	Projection
GeorectifiedRadianceAverage	Camera (9), Band (4)	GEO
GeorectifiedRadianceCovariance	CovarianceIndex (666)	GEO

Values of 0 and -9999.0 are used for ‘\_FillValue.’ The file does not have the ‘missing\_value’ attribute.

Datasets	
V-DatasetName	#Dimension (DimList)
Source file	1-D (15)
Camera Enumeration	1-D (9)
Band Enumeration	1-D (4)
CovarianceIndex Enumeration	1-D (666)
Average Statistic	1-D (36)
Average fill flag Statistic	1-D (1)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Source file		either of ‘units,’ ‘unit’ or ‘long_name’ not there		

GROUP1: GeorectifiedRadianceAverage	
DataFieldName	#Dimension (DimList)
Average fill flag	2-D (YDim (360), XDim (720))
Average	4-D (YDim, XDim, Camera, Band)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Average fill flag		either of ‘units,’ ‘unit’ or ‘long_name’ not there		

GROUP2: GeorectifiedRadianceCovariance	
DataFieldName	#Dimension (DimList)
Covariance fill flag	2-D (YDim (180), XDim (360))
Covariance	3-D (YDim, XDim, CovarianceIndex)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Covariance fill flag		either of ‘units,’ ‘unit’ or ‘long_name’ not there		

Other MISR\_AM1\_CGGRP files have similar structure



10.	<b>FILENAME:</b> MISR_AM1_CGLS_2005_F04_0017.hdf (ftp link: <a href="#">here</a> ) (Filesize=16.5 MB)						
	It is a grid file with 2 grids. It also has 16 V-datasets.						
	It has regular dimensions called XDim and YDim.						
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>LandParameterAverage</td> <td>Band (4)</td> <td>GEO</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	LandParameterAverage	Band (4)	GEO
GridName	DimensionList	Projection					
LandParameterAverage	Band (4)	GEO					
	Values of 0 and -9999.0 are used for ‘_FillValue.’ The file does not have the ‘missing_value’ attribute.						

Datasets	
V-DatasetName	#Dimension (DimList)
Source file	1-D (5201)
Band Enumeration	1-D (4)
NDVI average count statistic	1-D (1)
DHR average Statistic	1-D (4)
Time of observations LandParameterAverage	1-D (798846)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Source file		either of ‘units,’ ‘unit’ or ‘long_name’ not there		

GROUP1: LandParameterAverage	
DataFieldName	#Dimension (DimList)
Average fill flag	2-D (YDim (360), XDim (720))
DHR average	3-D (YDim, XDim, Band)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Average fill flag		either of ‘units,’ ‘unit’ or ‘long_name’ not there		

Other MISR\_AM1\_CGLS files have similar structure.

11.	<b>FILENAME:</b> MISR_AM1_GP_GMP_P002_O002421_F03_0013.hdf (ftp link: <a href="#">here</a> ) (Filesize=10.4 MB)						
	It is a grid file with 2 grids. It also has 2 V-datasets.						
	It has regular dimensions called XDim and YDim.						
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>GeometricParameters</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	GeometricParameters	SOMBlockDim (180)	SOM
GridName	DimensionList	Projection					
GeometricParameters	SOMBlockDim (180)	SOM					
	MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.						
	A value of -555 is used for ‘_FillValue.’ The file does not have the ‘missing_value’ attribute.						

Datasets	
V-DatasetName	#Dimension (DimList)
PerBlockMetadataCommon	1-D (142)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
PerBlockMetadataCommon		either of ‘units,’ ‘unit’ or ‘long_name’ not there		

GROUP1: GeometricParameters	
DataFieldName	#Dimension (DimList)
SolarZenith	3-D (SOMBlockDim, XDim (8), YDim (32))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SolarZenith	either of 'units,' 'unit' or 'long_name' not there			
12.	<b>FILENAME:</b> MISR_AM1_GRP_ELLIPSOID_GM_P023_O002932_AA_F03_0023.hdf (ftp link: <a href="#">here</a> ) (Filesize=195.0 MB)			
It is a grid file with 6 grids. It also has 2 other groups and 3 V-datasets.				
It has regular dimensions called XDim and YDim.				
GridName	DimensionList	Projection		
BlueBand	SOMBlockDim (180)	SOM		
GreenBand	SOMBlockDim (180)	SOM		
RedBand	SOMBlockDim (180)	SOM		
NIRBand	SOMBlockDim (180)	SOM		
BRF Conversion Factors	SOMBlockDim (180)	SOM		
GeometricParameters	SOMBlockDim (180)	SOM		
MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.				
Values of -555.0 and 65515 are used for '_FillValue.' The file does not have the 'missing_value' attribute.				
Datasets				
V-DatasetName	#Dimension (DimList)			
PerBlockMetadataTime	1-D (141)			
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
PerBlockMetadataTime	either of 'units,' 'unit' or 'long_name' not there			
Groups				
SwathQaVG				
DatasetName	#Dimension (DimList)			
SwathQaGlobal	1-D (1)			
BlockQaVG				
DatasetName	#Dimension (DimList)			
BlockQaGlobal	1-D (141)			
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SwathQaGlobal	either of 'units,' 'unit' or 'long_name' not there			
BlockQaGlobal	either of 'units,' 'unit' or 'long_name' not there			
GROUP1: BlueBand				
DataFieldName	#Dimension (DimList)			
Blue Radiance/RDQI	3-D (SOMBlockDim, XDim (128), YDim (512))			
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Blue Radiance/RDQI	either of 'units,' 'unit' or 'long_name' not there			
GROUP2: GreenBand				
DataFieldName	#Dimension (DimList)			
Green Radiance/RDQI	3-D (SOMBlockDim, XDim (128), YDim (512))			

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Green Radiance/RDQI	either of 'units,' 'unit' or 'long_name' not there			

#### GROUP3: RedBand

DataFieldName	#Dimension (DimList)
Red Radiance/RDQI	3-D (SOMBlockDim, XDim (512), YDim (2048))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Red Radiance/RDQI	either of 'units,' 'unit' or 'long_name' not there			

#### GROUP4: NIRBand

DataFieldName	#Dimension (DimList)
NIR Radiance/RDQI	3-D (SOMBlockDim, XDim (128), YDim (512))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
NIR Radiance/RDQI	either of 'units,' 'unit' or 'long_name' not there			

#### GROUP5: BR Conversion Factors

DataFieldName	#Dimension (DimList)
BlueConversionFactor	3-D (SOMBlockDim, XDim (8), YDim (32))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
BlueConversionFactor	either of 'units,' 'unit' or 'long_name' not there			

#### GROUP6: GeometricParameters

DataFieldName	#Dimension (DimList)
SolarZenith	3-D (SOMBlockDim, XDim (8), YDim (32))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SolarZenith	either of 'units,' 'unit' or 'long_name' not there			

Other MISR\_AM1\_GRP\_ELLIPSOID and MISR\_AM1\_GRP\_TERRAIN files have similar structure

13. **FILENAME:** MISR\_AM1\_GRP\_RCCM\_GM\_P004\_O041536\_AN\_F04\_0025.hdf (ftp link: [here](#)) (Filesize=56.1 MB)

It is a grid file with 1 grids. It also has 2 other groups and a V-dataset.

It has regular dimensions called XDim and YDim.

GridName	DimensionList	Projection
RCCM	SOMBlockDim (180)	SOM

MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR\_AGP file.

Values of 255 and -9999.0 are used for ' \_FillValue.' The file does not have the 'missing\_value' attribute.

#### Datasets

V-DatasetName	#Dimension (DimList)
PerBlockMetadataCommon	1-D (158)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
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	PerBlockMetadataCommon	either of 'units,' 'unit' or 'long_name' not there		
	<b>Groups</b>			
	SwathQaVG			
	DatasetName	#Dimension (DimList)		
	SwathQaGlobal	1-D (1)		
	DataFieldName	AttributeName	AttributeValue	AttributeType
	SwathQaGlobal	either of 'units,' 'unit' or 'long_name' not there		
	<b>GROUP1: BlueBand</b>			
	DataFieldName	#Dimension (DimList)		
	Cloud	3-D (SOMBlockDim, XDim (128), YDim (512))		
	DataFieldName	AttributeName	AttributeValue	AttributeType
	Cloud	either of 'units,' 'unit' or 'long_name' not there		
14.	<b>FILENAME:</b> MISR_AEROSOL_P017_0036105_F10_0020_GOM_b64-72.hdf (ftp link: <a href="#">here</a> ) (Filesize=3.9 MB)			
	It is a grid file with 3 grids. Namely: RegParamsAer, SubregParamsAer and DomParamsAer. It also has 17 v-datasets.			
	It has regular dimensions called XDim and YDim.			
	<b>GridName</b>	<b>DimensionList</b>	<b>Projection</b>	
	<b>RegParamsAer</b>	NBandDim (4), NCamDim (9), NAerMixtureDim (74), NRelHumLevelDim (36), NVectorDim (9), NParticleTypeDim (5), NNonSphericalFractionBinDim (6), NSSABinDim (6), SOMBlockDim (180)	SOM	
	<b>SubregParamsAer</b>	NBandDim (4), NCamDim (9), SOMBlockDim (180)	SOM	
	<b>DomParamsAer</b>	SOMBlockDim (180), NTauBinDim (60), NAerMixtureDim (74)	SOM	
	MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.			
	A value of -9999.0 is commonly used for ' _FillValue.' The file does not have the 'missing_value' attribute.			
	<b>Datasets</b>			
	v-DatasetName	#Dimension (DimList)		
	PerBlockMetadataCommon	1-D (161)		
	RetrAppMask Flag Legend	1-D (13)		
	OptDepthUpBdCam Flag Legend	1-D (9)		
	OptDepthUpBdBand Flag Legend	1-D (4)		
	.....			
	DataFieldName	AttributeName	AttributeValue	AttributeType
	PerBlockMetadataCommon	either of 'units,' 'unit' or 'long_name' not there		
	<b>GROUP1: RegParamsAer</b>			
	DataFieldName	#Dimension (DimList)		
	RegBestEstimateAngstromExponent	3-D (SOMBlockDim, XDim (8), YDim (32))		
	RegBestEstimateSpectralOptDepth	4-D (SOMBlockDim, XDim, YDim, NBandDim)		
	ViewZenAng	4-D (SOMBlockDim, XDim, YDim, NCamDim)		

RegBestEstimateNumberFraction	4-D (SOMBlockDim, XDim, YDim, NParticleTypeDim)
NumAcceptHetOptDepth	4-D (SOMBlockDim, XDim, YDim, NAerMixtureDim)
RegNonsphericalNumberFractionHistogramCounts	4-D (SOMBlockDim, XDim, YDim, NNonSphericalFractionBinDim)
RegBestEstimateSpectralOptDepthFraction	5-D (SOMBlockDim, XDim, YDim, NBandDim, NParticleTypeDim)
RegLowestResidMixtureEqRefl	5-D (SOMBlockDim, XDim, YDim, NBandDim, NCamDim)
OptDepthHetCalcPerBand	5-D (SOMBlockDim, XDim, YDim, NBandDim, NAerMixtureDim)
RegSpectralSSAHistogramCounts	5-D (SOMBlockDim, XDim, YDim, NBandDim, NSSABinDim)
RegSpectralNonsphericalOptDepthFractionHistogramCounts	5-D (SOMBlockDim, XDim, YDim, NBandDim, NNonSphericalFractionBinDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
ViewZenAng		either of 'units,' 'unit' or 'long_name' not there		

GROUP2: SubregParamsAer	
DataFieldName	#Dimension (DimList)
WaterLeavEqReflExp	4-D (SOMBlockDim, XDim (128), YDim (512), NBandDim)
RetrAppMask	5-D (SOMBlockDim, XDim, YDim, NBandDim, NCamDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
RetrAppMask		either of 'units,' 'unit' or 'long_name' not there		

GROUP3: DomParamsAer	
DataFieldName	#Dimension (DimList)
DomMeanOptDepth	3-D (SOMBlockDim, XDim (2), YDim (8))
OptDepthHistogram	5-D (SOMBlockDim, XDim, YDim, NAerMixtureDim, NTauBinDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
OptDepthHistogram		either of 'units,' 'unit' or 'long_name' not there		

15.	<b>FILENAME:</b> MISR_ELLIPSOID_GM_P017_O036105_DF_F03_0024_GOM_b64-72.hdf (ftp link: <a href="#">here</a> , Filesize=11.5MB)																					
	It is a grid file with 6 grids. It also has 3 datasets.																					
	It has regular dimensions called XDim and YDim.																					
	<table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>BlueBand</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>GreenBand</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>RedBand</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>NIRBand</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>BRF Conversion Factors</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>GeometricParameters</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> </tbody> </table>	GridName	DimensionList	Projection	BlueBand	SOMBlockDim (180)	SOM	GreenBand	SOMBlockDim (180)	SOM	RedBand	SOMBlockDim (180)	SOM	NIRBand	SOMBlockDim (180)	SOM	BRF Conversion Factors	SOMBlockDim (180)	SOM	GeometricParameters	SOMBlockDim (180)	SOM
GridName	DimensionList	Projection																				
BlueBand	SOMBlockDim (180)	SOM																				
GreenBand	SOMBlockDim (180)	SOM																				
RedBand	SOMBlockDim (180)	SOM																				
NIRBand	SOMBlockDim (180)	SOM																				
BRF Conversion Factors	SOMBlockDim (180)	SOM																				
GeometricParameters	SOMBlockDim (180)	SOM																				
	MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.																					

Values of 65515 and -555.0 are used for ‘\_FillValue.’ The file does not have the ‘missing\_value’ attribute.

**Datasets**

DatasetName	#Dimension (DimList)
PerBlockMetadataTime	1-D (162)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
PerBlockMetadataTime				either of ‘units,’ ‘unit’ or ‘long_name’ not there

**GROUP1: BlueBand**

DataFieldName	#Dimension (DimList)
Blue Radiance/RDQI	3-D (SOMBlockDim , XDim (128), YDim (512))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Blue Radiance/RDQI				either of ‘units,’ ‘unit’ or ‘long_name’ not there

**GROUP2: GreenBand**

DataFieldName	#Dimension (DimList)
Green Radiance/RDQI	3-D (SOMBlockDim , XDim (128), YDim (512))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Green Radiance/RDQI				either of ‘units,’ ‘unit’ or ‘long_name’ not there

**GROUP3: RedBand**

DataFieldName	#Dimension (DimList)
Red Radiance/RDQI	3-D (SOMBlockDim , XDim (512), YDim (2048))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
Red Radiance/RDQI				either of ‘units,’ ‘unit’ or ‘long_name’ not there

**GROUP4: NIRBand**

DataFieldName	#Dimension (DimList)
NIR Radiance/RDQI	3-D (SOMBlockDim , XDim (128), YDim (512))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
NIR Radiance/RDQI				either of ‘units,’ ‘unit’ or ‘long_name’ not there

**GROUP5: BR Conversion Factors**

DataFieldName	#Dimension (DimList)
BlueConversionFactor	3-D (SOMBlockDim , XDim (8), YDim (32))

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
BlueConversionFactor				either of ‘units,’ ‘unit’ or ‘long_name’ not there

**GROUP6: GeometricParameters**

DataFieldName	#Dimension (DimList)
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	SolarZenith	3-D (SOMBlockDim , XDim (8), YDim (32))		
	<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>
	SolarZenith	either of 'units,' 'unit' or 'long_name' not there		
16.	<b>FILENAME:</b> MISR_GMP_P017_O036105_F03_0013_GOM_b64-72.hdf (ftp link: <a href="#">here</a> ) (Filesize=847.0 KB)			
	It is a grid file with 1 grids. Namely: GeometricParameters. It also has 2 datasets.			
	It has regular dimensions called XDim (8) and YDim (32).			
	<b>GridName</b>	<b>DimensionList</b>	<b>Projection</b>	
	BlueBand	SOMBlockDim (180)	SOM	
	MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.			
	A value of -555.0 is used for ' _FillValue.' The file does not have the 'missing_value' attribute.			
	<b>Datasets</b>			
	<b>DatasetName</b>	<b>DatasetName</b>		
	PerBlockMetadataCommon	1-D (163)		
	<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>
	PerBlockMetadataCommon	either of 'units,' 'unit' or 'long_name' not there		
	<b>GROUP1: BlueBand</b>			
	<b>DataFieldName</b>	<b>#Dimension (DimList)</b>		
	SolarZenith	3-D (SOMBlockDim , XDim, YDim)		
	<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>
	SolarZenith	either of 'units,' 'unit' or 'long_name' not there		
17.	<b>FILENAME:</b> MISR_LAND_P017_O036105_F06_0020_GOM_b64-72.hdf (ftp link: <a href="#">here</a> ) (Filesize=29.6 MB)			
	It is a grid file with 2 grids. Namely: RegParamsLnd and SubregParamsLnd. It also has 4 datasets.			
	It has regular dimensions called XDim and YDim.			
	<b>GridName</b>	<b>DimensionList</b>	<b>Projection</b>	
	RegParamsLnd	NBandDim (4), NCamDim (9), NFparSfcTypeTotDim (10), SOMBlockDim (180)	SOM	
	SubregParamsLnd	NBandDim (4), NCamDim (9), NFparSfcTypeVegDim (6), SOMBlockDim (180)	SOM	
	MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.			
	Values -9999.0 and 253 are used for ' _FillValue.' The file does not have the 'missing_value' attribute.			
	<b>Datasets</b>			
	<b>DatasetName</b>	<b>#Dimension (DimList)</b>		
	PerBlockMetadataTime	1-D (161)		
	RDQI Flag Legend	1-D (4)		
	<b>DataFieldName</b>	<b>AttributeName</b>	<b>AttributeValue</b>	<b>AttributeType</b>
	RDQI Flag Legend	either of 'units,' 'unit' or 'long_name' not there		

GROUP1: RegParamsLnd																
DataFieldName	#Dimension (DimList)															
RegSfcRetrOptDepth	3-D (SOMBlockDim, XDim (8), YDim (32))															
NormBlkSfcIrrad	4-D (SOMBlockDim, XDim, YDim, NBandDim)															
ViewZenAng	4-D (SOMBlockDim, XDim, YDim, NCamDim)															
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize												
ViewZenAng	either of 'units,' 'unit' or 'long_name' not there															
GROUP2: SubregParamsLnd																
DataFieldName	#Dimension (DimList)															
NDVI	3-D (SOMBlockDim, XDim (128), YDim (512))															
LandBHR	4-D (SOMBlockDim, XDim, YDim, NBandDim)															
LAIMean1	4-D (SOMBlockDim, XDim, YDim, NParSfcTypeVegDim)															
LandHDRF	5-D (SOMBlockDim, XDim, YDim, NBandDim, NCamDim)															
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize												
NDVI	either of 'units,' 'unit' or 'long_name' not there															
18.	<p><b>FILENAME:</b> MISR_STEREO_P017_O036105_F08_0016_GOM_b64-72.hdf (ftp link: <a href="#">here</a>) (Filesize=4.8 MB)</p> <p>It is a grid file with 3 grids. Namely: SubregParams, RLRaregParams and DomainParams. It also has 3 datasets.</p> <p>It has regular dimensions called XDim and YDim.</p> <table border="1"> <thead> <tr> <th>GridName</th> <th>DimensionList</th> <th>Projection</th> </tr> </thead> <tbody> <tr> <td>SubregParams</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>RLRaregParams</td> <td>SOMBlockDim (180)</td> <td>SOM</td> </tr> <tr> <td>DomainParams</td> <td>NSHistogramDim (37), EWHistogramDim (37), WindXDisparityDim (303), WindYDisparityDim (303), WindDim (2), SOMBlockDim (180)</td> <td>SOM</td> </tr> </tbody> </table> <p>MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR_AGP file.</p> <p>A value of -9999 is commonly used for '_FillValue.' The file does not have the 'missing_value' attribute.</p>				GridName	DimensionList	Projection	SubregParams	SOMBlockDim (180)	SOM	RLRaregParams	SOMBlockDim (180)	SOM	DomainParams	NSHistogramDim (37), EWHistogramDim (37), WindXDisparityDim (303), WindYDisparityDim (303), WindDim (2), SOMBlockDim (180)	SOM
GridName	DimensionList	Projection														
SubregParams	SOMBlockDim (180)	SOM														
RLRaregParams	SOMBlockDim (180)	SOM														
DomainParams	NSHistogramDim (37), EWHistogramDim (37), WindXDisparityDim (303), WindYDisparityDim (303), WindDim (2), SOMBlockDim (180)	SOM														
Datasets																
DatasetName	#Dimension (DimList)															
PerBlockMetadataTime	1-D (161)															
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize												
PerBlockMetadataTime	either of 'units,' 'unit' or 'long_name' not there															
GROUP1: SubregParams																
DataFieldName	#Dimension (DimList)															
StereoHeight_BestWinds	3-D (SOMBlockDim, XDim (128), YDim (512))															
DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize												
StereoHeight_BestWinds	either of 'units,' 'unit' or 'long_name' not there															
GROUP2: RLRaregParams																



DataFieldName	#Dimension (DimList)
RLRA_WithoutWinds	3-D (SOMBlockDim, XDim (64), YDim (256),)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
RLRA_WithoutWinds		either of 'units,' 'unit' or 'long_name' not there		

<b>GROUP3: DomainParams</b>	
DataFieldName	#Dimension (DimList)
CloudMotionSource	3-D (SOMBlockDim, XDim (2), YDim (8))
PeakWidthBfAnCrossDisparity	4-D (SOMBlockDim, XDim, YDim, WindDim)
HistogramBfAnCrossDisparity	4-D (SOMBlockDim, XDim, YDim, WindYDisparityDim)

DataFieldName	AttributeName	AttributeValue	AttributeType	AttributeArraySize
CloudMotionSource		either of 'units,' 'unit' or 'long_name' not there		

19. **FILENAME:** MISR\_AM1\_TC\_ALBEDO\_P027\_O056930\_F05\_0011.hdf (ftp link: [here](#)) (Filesize=474 MB)  
 It is a grid file with 3 grids. Namely: AlbedoParameters\_35.2\_km, GeometricParameters\_17.6\_km and ReflectingLevelParameters\_2.2\_km. It also has 3 datasets.  
 It has regular dimensions called XDim and YDim.

GridName	DimensionList	Projection
AlbedoParameters_35.2_km	SOMBlockDim (180)	SOM
GeometricParameters_17.6_km	SOMBlockDim (180)	SOM
ReflectingLevelParameters_2.2_km	SOMBlockDim (180)	SOM

MISR files whose projection is SOM provide two ways to handle latitude and longitude. One way is to calculate latitude and longitude through EOS-HDF library. The other way is to provide MISR\_AGP file. However, MISR\_AM1\_TC\_ALBEDO files do not have corresponding MISR\_AGP file.

A value of -9999 is commonly used for '\_FillValue.' The file does not have the 'missing\_value' attribute.

<b>GROUP1: AlbedoParameters_35.2_km</b>	
Data Field Name	#Dimension (DimList)
AlbedoExpansive	4-D (SOMBlockDim, XDim (4), YDim (16), NBandDim(4))
AlbedoExpansiveBroadband	3-D (SOMBlockDim, XDim (4), YDim (16))

Data Field Name	AttributeName	AttributeValue	AttributeType	AttributeArraySize
AlbedoExpansive	_FillValue	-9999.0	32-bit floating-point	1
AlbedoExpansiveBroadband	_FillValue	-9999.0	32-bit floating-point	1

<b>GROUP2: GeometricParameters_17.6_km</b>	
Data Field Name	#Dimension (DimList)
SolarZenithAngle	3-D (SOMBlockDim, XDim (8), YDim (32),)
ViewZenithAngle	4-D (SOMBlockDim, XDim (8), YDim (32), NCamDim(9))

Data Field Name	AttributeName	AttributeValue	AttributeType	AttributeArraySize
SolarZenithAngle	_FillValue	-9999.0	32-bit floating-point	1
ViewZenithAngle	_FillValue	-9999.0	32-bit floating-point	1

**GROUP3: ReflectingLevelParameters\_2.2\_km**

Data Field Name	#Dimension (DimList)
AlbedoLocal	4-D (SOMBlockDim, XDim (64), YDim (256), NBandDim(4))
BRFTop_Mean	5-D (SOMBlockDim, XDim (64), YDim (256), NBandDim(4) , NCamDim(9))
HighCloudIndicator	3-D (SOMBlockDim, XDim (64), YDim (256))

Data Field Name	AttributeName	AttributeValue	AttributeType	AttributeArraySize
AlbedoLocal	_FillValue	-9999.0	32-bit floating-point	1
BRFTop_Mean	_FillValue	-9999.0	32-bit floating-point	1
HighCloudIndicator	_FillValue	-9999.0	32-bit floating-point	1

Other MISR\_AM1\_TC\_ALBEDO files have similar structure