

OMI

OMI-Grid (L2G and L3)

1.	FILENAME: OMI-Aura_L2G-OMCLDO2G_2007m0129_v002-2007m0130t174603.he5 (ftp link: here)
	Geographic projection
	Latitude Units: degrees; Longitude Units: degrees. It does not follow CF conventions.
	3 Dimensions
	XDim=1440, YDim=720, nCandidate=15

GROUP1: CloudFractionAndPressure

GeoFieldName	#Dimension (DimList)
Latitude	3-D (nCandidate=15, YDim=720, XDim=1440)
Longitude	3-D (nCandidate=15, YDim=720, XDim=1440)
Time	3-D (nCandidate=15, YDim=720, XDim=1440)

DataFieldName	#Dimension (DimList)
CloudFraction, ...	3-D (nCandidate=15, YDim=720, XDim=1440)
NumberOfCandidateScenes	2-D (YDim=720, XDim=1440)

Other OMI-Aura L2G files have similar structure

2.	FILENAME: OMI-Aura_L3-OMTO3e_2005m1214_v002-2006m0929t143855.he5 (ftp link: here)
	Geographic projection, No Latitude/Longitude in Data fields
	2 Dimensions
	XDim=1440, YDim=720

GROUP1: OMI Column Amount O3

GeoFieldName	#Dimension (DimList)

DataFieldName	#Dimension (DimList)
ColumnAmountO3, ...	2-D (YDim=720, XDim=1440)

Other OMI-Aura L3 files have similar structure

OMI-Swath

3.	FILENAME: OMI-Aura_L2-OMNO2_2008m0720t2016-o21357_v003-2008m0721t101450.he5 (ftp link: here)
	It is a Swath file with one swath, namely: ColumnAmountNO2
	Latitude Units: degrees; Longitude Units: degrees. It does not follow CF conventions.
	9 Dimensions
	nXtrack=60, nTimes=1, nTimesSmallPixel=10, nWavelCheck=3, nLatitude=1, nUnpolFldCoefs=1
	nSmallPixelPointer=2, nPolynomial=6, Unlimited =-1

GROUP1: ColumnAmountNO2

GeoFieldName	#Dimension (DimList)
Latitude, Longitude	2-D (Unlimited=1644, nXtrack=60)
Time	1-D (Unlimited=1644)
GroundPixelQualityFlags, ...	2-D (Unlimited=1644, nXtrack=60)
SpacecraftAltitude, ...	1-D (Unlimited=1644)

DataFieldName	#Dimension (DimList)
AMFInitial, ...	2-D (Unlimited=1644, nXtrack=60)
InstrumentConfigurationID, ...	1-D (Unlimited=1644)
PolynomialCoefficients, ...	3-D (Unlimited=1644, nXtrack=60, nPolynomial=6)
SmallPixelRadiance	2-D (Unlimited=6488, nXtrack=60)
SmallPixelRadiancePointer	2-D (Unlimited=1644, nSmallPixelPointer=2)
UnPolFldCoefficients	2-D (Unlimited=5, Unlimited=180)
UnPolFldLatBandQualityFlags	1-D (Unlimited=1)
WavelengthRegistrationCheck, ...	2-D (Unlimited=1644, nWaveCheck=3)

Other OMI-Aura L2 files have similar structure