

Shortname: OMT03G
Longname: OMI/Aura Ozone (O3) Total Column Daily
L2 Global 0.25deg Lat/Lon Grid
PFS Version: 1.0.5
Date: 19 June 2010
Author(s): Peter Leonard (ADNET)

PGE Version: 1.0.5
Lead Algorithm Scientist: Pawan K. Bhartia (NASA/
GSFC)
Lead Algorithm Developer: Peter Leonard (ADNET)
Lead PGE Developer: Peter Leonard (ADNET)
PGE Developer(s): Peter Leonard (ADNET)

Description: >

This document specifies the format of the Ozone Monitoring Instrument (OMI) OMT03G product, which is the daily Level 2G (L2G) gridded data product that corresponds to the OMT03 product. The latter is the U.S. OMI Science Team's total column ozone orbital Level 2 (L2) swath data product (Reference 1).

The L2G product contains 24 UTC hours of L2 product subsetted onto a longitude-latitude grid.

An OMI L2G day is defined to be the 24 hours that lie between UTC times of 0 hours, 0 minutes, 0 seconds and 23 hours, 59 minutes, 59.999999 seconds.

The L2G product contains the data for all L2 "scenes" that
1) have observation times that lie within the L2G

day in question,

2) have centers that lie within the L2G grid cell in question, and

3) are "good".

A "good" OMT03 L2 scene is defined as one that has
i) a solar zenith angle that is less than or equal to 88.0 degrees, and

ii) an ozone column amount that is not equal to the missing value.

The adopted L2G grid is a 0.25-degree by 0.25-degree grid in longitude and

latitude. The dimensions of this grid are 1440 by 720. The origin of the

grid is at lower left. That is, the grid cell at coordinates (1, 1)

is centered at (longitude = -179.875 , latitude = -89.875),

and the grid cell at coordinates (1440, 720)

is centered at (longitude = 179.875 , latitude = 89.875).

The adopted L2G grid is consistent with the document entitled "Definition

of OMI Grids for Level 3 and Level 4 Data Products" by J.P. Veefkind et al.

(Reference 2).

The L2G product currently excludes L2 data collected in spatial and spectral zoom modes.

Each "good" OMT03 L2 scene is mapped onto only one L2G grid cell.

The number of L2 scenes that are mapped onto a given

L2G grid cell can range from 0 to 12, and the corresponding data are stored in an additional dimension of the grid.

The L2 data are not averaged or weighted in any way in the L2G product.

The product is stored as one HDF-EOS 5 grid file, and has a size of 150 MB.

The format of the L2G product files is consistent with the document entitled "HDF-EOS Aura File Format Guidelines" by C. Craig et al. (Reference 3).

Global Metadata:

- Metadata Name: EndUTC
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Data Source: PGE
Description: >
UTC at the end of the L2G granule in "YYYY-MM-DDT23:59:59.999999Z" format.

- Metadata Name: FirstLineInOrbit
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1,16
Minimum Value: 1
Maximum Value: 1700
Data Source: PGE
Description: >
The first line number in each L2 orbit that contributes to the L2G granule.

- Metadata Name: GranuleDay
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 1
Maximum Value: 31
Data Source: PGE
Description: The day of the month at the start of the L2G granule.

- Metadata Name: GranuleDayOfYear
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 1
Maximum Value: 366
Data Source: PGE
Description: The day of the year at the start of the L2G granule.

- Metadata Name: GranuleMonth
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 1
Maximum Value: 12
Data Source: PGE
Description: The month of the year at the start of the L2G granule.

- Metadata Name: GranuleYear
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 2000
Maximum Value: 2099

Data Source: PGE
Description: The (four-digit) year at the start of the L2G granule.

- Metadata Name: HDFEOSVersion
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Data Source: HE
Description: >
The version of HDF-EOS 5 used in production.
Example is "HDFEOS_5.1.8".

- Metadata Name: InstrumentName
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: OMI
Data Source: PGE
Description: Actual is "OMI" (see Section 6.1 of Reference 3).

- Metadata Name: LastLineInOrbit
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1,16
Minimum Value: 1
Maximum Value: 1700
Data Source: PGE
Description: >
The last line number in each L2 orbit that contributes to the L2G granule.

- Metadata Name: NumberOfLinesMissingGeolocation
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1,16

Minimum Value: 1
Maximum Value: 1700
Data Source: PGE
Description: >

The number of lines in each L2 orbit that are missing geolocation (a.k.a. number of "bad" lines in each L2 file).

- Metadata Name: OrbitNumber
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1,16
Minimum Value: 1
Maximum Value: 999999
Data Source: L2
Description: The OMI orbit number for each L2 input granule.

- Metadata Name: OrbitPeriod
Mandatory: T
Data Type: HE5T_NATIVE_DOUBLE
Number of Values: 1,16
Minimum Value: 5000.0
Maximum Value: 7000.0
Data Source: PGE
Description: The Aura orbital period for each L2 input granule.

- Metadata Name: Period
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: Daily,Weekly,Monthly
Data Source: PGE
Description: The duration of the L2G granule. Actual is "Daily".

- Metadata Name: PGEVERSION
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Data Source: PCF
Description: Example is "1.0.5" (see Appendix K of Reference 4).

- Metadata Name: ProcessLevel
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: 2G
Data Source: PGE
Description: Actual is "2G".

- Metadata Name: QAPercentMissingData
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1,16
Minimum Value: 0
Maximum Value: 100
Data Source: L2
Description: >
The percent of Level 1B calibrated radiance data that is missing from each L2 input granule.

- Metadata Name: StartUTC
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Data Source: PGE
Description: >
UTC at the start of the L2G granule in "YYYY-MM-DDT00:00:00.000000Z" format.

- Metadata Name: TAI93At0zOfGranule
Mandatory: T
Data Type: HE5T_NATIVE_DOUBLE
Number of Values: 1
Minimum Value: 0.0
Maximum Value: 1.0e+30
Data Source: PGE
Description: >

The TAI93 time at 0z of the L2G granule (see Section 6.1 of Reference 3).

Grid Metadata:

- Metadata Name: GCTPProjectionCode
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 99
Data Source: PGE
Description: >

The GCTP projection code of the L2G grid. Actual is 0, which corresponds to the geographic projection.

- Metadata Name: GridName
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: OMI Column Amount 03
Data Source: PGE
Description: Actual is "OMI Column Amount 03".

- Metadata Name: GridOrigin
Mandatory: T
Data Type: HE5T_NATIVE_CHAR

- Number of Values: 1
Valid: Center
Data Source: PGE
Description: >
The origin of the L2G grid. Actual is "Center" (see Section 6.2 of Reference 3).
- Metadata Name: GridSpacing
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Data Source: PGE
Description: >
Spacing of L2G grid (in degrees). Actual is "(0.25,0.25)".
- Metadata Name: GridSpacingUnit
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: deg
Data Source: PGE
Description: >
Unit for GridSpacing. Actual is "deg".
- Metadata Name: GridSpan
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Data Source: PGE
Description: >
Span of L2G grid (in degrees). Actual is "(-180,180,-90,90)".
- Metadata Name: GridSpanUnit
Mandatory: T

Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: deg
Data Source: PGE
Description: >
Unit for GridSpan. Actual is "deg".

- Metadata Name: MaximumNumberOfCandidatesPerGridCell
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 15
Data Source: PGE
Description: >
The maximum number of L2 scenes per cell in the L2G grid (this can be as large as 12).

- Metadata Name: MinimumNumberOfCandidatesPerGridCell
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 15
Data Source: PGE
Description: >
The minimum number of L2 scenes per cell in the L2G grid (this is typically 0, because empty L2G grid cells are quite common).

- Metadata Name: NumberOfEmptyGridCells
Mandatory: T
Data Type: HE5T_NATIVE_INT

Number of Values: 1
Minimum Value: 0
Maximum Value: 1036800
Data Source: PGE
Description: >

The number of cells in the L2G grid that do not contain any L2 scenes.

- Metadata Name:

NumberOfDuplicateScenesAcceptedIntoGrid

Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 1500000
Data Source: PGE
Description: >

The number of L2 scenes accepted into L2G grid cells that already contain one or more L2 scenes.

- Metadata Name: NumberOfGridCells

Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 1
Maximum Value: 1036800
Data Source: PGE
Description:

The total number of cells in the L2G grid.

- Metadata Name: NumberOfLatitudesInGrid

Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 1
Maximum Value: 720

Data Source: PGE
Description: The number of latitude bins in the L2G grid.

- Metadata Name: NumberOfLongitudesInGrid
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 1
Maximum Value: 1440
Data Source: PGE
Description: The number of longitude bins in the L2G grid.

- Metadata Name: NumberOfMultiplyPopulatedGridCells
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 1036800
Data Source: PGE
Description: >
The number of cells in the L2G grid that contain two or more L2 scenes.

- Metadata Name: NumberOfPopulatedGridCells
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 1036800
Data Source: PGE
Description: >
The number of cells in the L2G grid that contain one or more L2 scenes.

- Metadata Name: NumberOfScenesAcceptedIntoGrid
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 1500000
Data Source: PGE
Description: The number of L2 scenes
accepted into the L2G grid.

- Metadata Name: NumberOfScenesConsideredForGrid
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 1500000
Data Source: PGE
Description: The number of L2 scenes
considered for the L2G grid.

- Metadata Name: NumberOfScenesRejectedFromGrid
Mandatory: T
Data Type: HE5T_NATIVE_INT
Number of Values: 1
Minimum Value: 0
Maximum Value: 1500000
Data Source: PGE
Description: The number of L2 scenes
rejected from the L2G grid.

- Metadata Name: Projection
Mandatory: T
Data Type: HE5T_NATIVE_CHAR
Number of Values: 1
Valid: Geographic
Data Source: PGE
Description: >

The map projection of the L2G grid. Actual is "Geographic" (see Section 6.2 of Reference 3).

Grid Dimensions:

- Dimension Name: nCandidate
Data Type: HE5T_NATIVE_INT
Dimension Type: FIXED
Number of Values: 1
Minimum Value: 1
Maximum Value: 15
Data Source: PGE
Description: >
The L2-candidate-scenes dimension of the L2G grid. The size of this dimension is currently set at 15.

- Dimension Name: nLayers
Data Type: HE5T_NATIVE_INT
Dimension Type: FIXED
Number of Values: 1
Minimum Value: 1
Maximum Value: 7
Data Source: PGE
Description: >
The ozone-profile-layers dimension of the L2G grid. Only the first seven layers of OMT03 are reproduced in OMT03G.

- Dimension Name: nWave1
Data Type: HE5T_NATIVE_INT
Dimension Type: FIXED
Number of Values: 1
Minimum Value: 1
Maximum Value: 12
Data Source: PGE

Description: >

The wavelengths dimension of the L2G grid. There are currently twelve wavelengths in both OMT03 and OMT03G.

- Dimension Name: XDim
Data Type: HE5T_NATIVE_INT
Dimension Type: FIXED
Number of Values: 1
Minimum Value: 1
Maximum Value: 1440
Data Source: PGE

Description: >

The longitudes dimension of the L2G grid. There are currently 1440 0.25-degree-wide bins between longitudes -180.0 and 180.0 degrees.

- Dimension Name: YDim
Data Type: HE5T_NATIVE_INT
Dimension Type: FIXED
Number of Values: 1
Minimum Value: 1
Maximum Value: 720
Data Source: PGE

Description: >

The latitudes dimension of the L2G grid. There are currently 720 0.25-degree-wide bins between latitudes -90.0 and 90.0 degrees.

Geolocation Fields:

- Field Name: GroundPixelQualityFlags
Data Type: HE5T_NATIVE_UINT16
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0

Maximum Value: 65534
Missing Value: 65535
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Ground Pixel Quality

Flags

Unique Field Definition: TOMS-OMI-Shared

Description: >

The ground pixel quality flags for each L2 candidate scene in each L2G grid cell:

Bits 0 to 3 together contain the land/water flags:

- 0 - shallow ocean
- 1 - land
- 2 - shallow inland water
- 3 - ocean coastline/lake shoreline
- 4 - ephemeral (intermittent) water
- 5 - deep inland water
- 6 - continental shelf ocean
- 7 - deep ocean
- 8-14 - not used
- 15 - error flag for land/water

Bits 4 to 6 are flags that are set to 0 for FALSE, or 1 for TRUE:

- Bit 4 - sun glint possibility flag
- Bit 5 - solar eclipse possibility flag
- Bit 6 - geolocation error flag

Bit 7 is reserved for future use (currently set to 0).

Bits 8 to 14 together contain the snow/ice flags

(based on NISE):

- 0 - snow-free land
- 1-100 - sea ice concentration (percent)
- 101 - permanent ice (Greenland, Antarctica)
- 102 - not used
- 103 - dry snow
- 104 - ocean (NISE-255)
- 105-123 - reserved for future use
- 124 - mixed pixels at coastline (NISE-252)
- 125 - suspect ice value (NISE-253)
- 126 - corners undefined (NISE-254)
- 127 - error

Bit 15 - NISE nearest neighbor filling flag.
(See Section 6.2 of Reference 5 for more details.)

- Field Name: Latitude
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -90.0
Maximum Value: 90.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: deg
Data Source: L2
Title: Geodetic Latitude
Unique Field Definition: TOMS-Aura-Shared
Description: >
The geodetic latitude (in degrees) on the ground at the center of each L2 candidate scene in each L2G grid cell.

- Field Name: LineNumber
Data Type: HE5T_NATIVE_INT
Dimensions: nCandidate,YDim,XDim

Minimum Value: 1
Maximum Value: 1700
Missing Value: -2000000000
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Line Number of Candidate

Scene

Unique Field Definition: OMI-Specific

Description: >

The line number for each L2 candidate scene in each L2G grid cell.

- Field Name: Longitude
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -180.0
Maximum Value: 180.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: deg
Data Source: L2
Title: Geodetic Longitude

Unique Field Definition: TOMS-Aura-Shared

Description: >

The geodetic longitude (in degrees) on the ground at the center of each L2 candidate scene in each L2G grid cell.

- Field Name: NumberOfCandidateScenes
Data Type: HE5T_NATIVE_INT
Dimensions: YDim,XDim
Minimum Value: 0
Maximum Value: 15
Missing Value: 0

Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: PGE
Title: Number of Candidate

Scenes

Unique Field Definition: OMI-Specific

Description: >

The number of L2 candidate scenes in each L2G grid cell.

- Field Name: OrbitNumber
Data Type: HE5T_NATIVE_INT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 1
Maximum Value: 999999
Missing Value: -2000000000
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Orbit Number of

Candidate Scene

Unique Field Definition: OMI-Specific

Description: >

The orbit number for each L2 candidate scene in each L2G grid cell.

- Field Name: PathLength
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 2.0
Maximum Value: 100.0
Missing Value: 1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits

Data Source: PGE
Title: Path Length
Unique Field Definition: OMI-Specific
Description: >
The path length [= sec(solar zenith angle) + sec(viewing zenith angle)] for each L2 candidate scene in each L2G grid cell.

- Field Name: RelativeAzimuthAngle
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -180.0
Maximum Value: 180.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: deg(EastofNorth)
Data Source: L2
Title: Relative Azimuth Angle

(sun + 180 - view)

Unique Field Definition: TOMS-OMI-Shared
Description: >
The relative (sun + 180 - view) azimuth angle (in degrees) on the ground at the center of each L2 candidate scene in each L2G grid cell.

- Field Name: SceneNumber
Data Type: HE5T_NATIVE_INT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 1
Maximum Value: 60
Missing Value: -2000000000
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2

Title: Scene Number of
Candidate Scene
Unique Field Definition: OMI-Specific
Description: >
The cross-track ground-pixel number for each L2
candidate scene in each L2G
grid cell.

- Field Name: SecondsInDay
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0.0
Maximum Value: 86401.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: s
Data Source: L2
Title: Seconds after UTC

midnight

Unique Field Definition: TOMS-Aura-Shared
Description: >
The time after UTC midnight (in seconds) for each
L2 candidate scene in each
L2G grid cell.

- Field Name: SolarZenithAngle
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0.0
Maximum Value: 180.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: deg
Data Source: L2
Title: Solar Zenith Angle

Unique Field Definition: TOMS-Aura-Shared

Description: >

The solar zenith angle (in degrees) on the ground at the center of each L2 candidate scene in each L2G grid cell.

- Field Name: TerrainHeight
Data Type: HE5T_NATIVE_INT16
Dimensions: nCandidate,YDim,XDim
Minimum Value: -200
Maximum Value: 10000
Missing Value: -32767
Offset: 0.0
Scale Factor: 1.0
Units: m
Data Source: L2

Title: Terrain Height

Unique Field Definition: TOMS-Aura-Shared

Description: >

The terrain height (in meters) at the center of each L2 candidate scene in each L2G grid cell.

- Field Name: Time
Data Type: HE5T_NATIVE_DOUBLE
Dimensions: nCandidate,YDim,XDim
Minimum Value: -5.0e+09
Maximum Value: 1.0e+10
Missing Value: -1.2676506002282294e+30
Offset: 0.0
Scale Factor: 1.0
Units: s
Data Source: L2
Title: Time at Start of Scan

(TAI93)

Unique Field Definition: TOMS-Aura-Shared

Description: >

The TAI93 time (in seconds) for each L2 candidate scene in each L2G grid cell.

- Field Name: ViewingZenithAngle
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0.0
Maximum Value: 70.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: deg
Data Source: L2
Title: Viewing Zenith Angle
Unique Field Definition: TOMS-OMI-Shared
Description: >

The viewing zenith angle (in degrees) on the ground at the center of each L2 candidate scene in each L2G grid cell.

- Field Name: XTrackQualityFlags
Data Type: HE5T_NATIVE_UINT8
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0
Maximum Value: 254
Missing Value: 255
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: PGE
Title: Cross Track Quality

Flags

Unique Field Definition: TOMS-OMI-Shared
Description: >

The cross track quality flags assigned to each pixel in

OMI L1B data. Flags indicate detection of the OMI row anomaly and if the effect has been corrected.

Bits 0 to 2 together indicate row anomaly status:

- 0 - Not affected
- 1 - Affected, Not corrected, do not use
- 2 - Slightly affected, not corrected, use with caution
- 3 - Affected, corrected, use with caution
- 4 - Affected, corrected, use pixel
- 5 - Not used
- 6 - Not used
- 7 - Error during anomaly detection processing

Bit 3 - Reserved for future use.
Bit 4 - Possibly affected by wavelength shift
Bit 5 - Possibly affected by blockage
Bit 6 - Possibly affected by stray sunlight
Bit 7 - Possibly affected by stray earthshine

Data Fields:

- Field Name:	AlgorithmFlags
Data Type:	HE5T_NATIVE_UINT8
Dimensions:	nCandidate,YDim,XDim
Minimum Value:	0
Maximum Value:	13
Missing Value:	255
Offset:	0.0
Scale Factor:	1.0
Units:	NoUnits
Data Source:	L2
Title:	Algorithm Flags
Unique Field Definition:	TOMS-OMI-Shared
Description:	>

The algorithm flags for each L2 candidate scene in each L2G grid cell:

- 0 - skipped
 - 1 - standard
 - 2 - adjusted for profile shape
 - 3 - based on C-pair (331 and 360 nm)
- Add 10 for snow/ice.

- Field Name: APrioriLayerO3
 - Data Type: HE5T_NATIVE_FLOAT
 - Dimensions: nCandidate,nLayers,YDim,XDim
 - Minimum Value: 0.0
 - Maximum Value: 125.0
 - Missing Value: -1.2676506e+30
 - Offset: 0.0
 - Scale Factor: 1.0
 - Units: DU
 - Data Source: L2
 - Title: A Priori Ozone Profile
 - Unique Field Definition: TOMS-OMI-Shared
 - Description: >

The a priori layer ozone values (in DU) for each L2 candidate scene in each L2G grid cell.
-
- Field Name: CloudPressure
 - Data Type: HE5T_NATIVE_FLOAT
 - Dimensions: nCandidate,YDim,XDim
 - Minimum Value: 0.0
 - Maximum Value: 1013.25
 - Missing Value: -1.2676506e+30
 - Offset: 0.0
 - Scale Factor: 1.0
 - Units: hPa
 - Data Source: L2
 - Title: Effective Cloud Pressure
 - Unique Field Definition: TOMS-OMI-Shared
 - Description: >

The effective cloud pressure (in hPa) for each L2 candidate scene in each L2G grid cell.

- Field Name: ColumnAmountO3
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 50.0
Maximum Value: 700.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: DU
Data Source: L2
Title: Best Total Ozone

Solution

Unique Field Definition: TOMS-OMI-Shared
Description: >

The best total ozone solution (in DU) for each L2 candidate scene in each L2G grid cell.

- Field Name:
InstrumentConfigurationId
Data Type: HE5T_NATIVE_UINT8
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0
Maximum Value: 200
Missing Value: 255
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Unique Field Definition: OMI-Specific
Title: Instrument Configuration

ID

Description: >

Instrument Configuration ID for each L2 candidate scene in each L2G grid cell.

- Field Name: LayerEfficiency
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,nLayers,YDim,XDim
Minimum Value: 0.0
Maximum Value: 10.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Algorithmic Layer

Efficiency

Unique Field Definition: TOMS-OMI-Shared
Description: >
The algorithmic layer efficiencies for each L2 candidate scene in each L2G grid cell.

- Field Name: MeasurementQualityFlags
Data Type: HE5T_NATIVE_UINT8
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0
Maximum Value: 254
Missing Value: 255
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Measurement Quality

Flags

Unique Field Definition: TOMS-OMI-Shared
Description: >

The measurement quality flags for each L2 candidate scene in each L2G grid

cell (Bit value is 0 for not set and 1 for set):

Bit 0 - Measurement Missing Flag: All ground pixels have L1B

PixelQualityFlags bit 0 set.

Bit 1 - Measurement Error Flag: Any of L1B MeasurementQualityFlags bit 0,

1 or 3 are set for radiance or solar product used.

Bit 2 - Measurement Warning Flag: Any of L1B MeasurementQualityFlags

bit 2, 4, 5, 8, 9 are set for radiance or solar product used.

Bit 3 - Rebinned Measurement Flag: L1B radiance MeasurementQualityFlags

bit 7 is set.

Bit 4 - SAA Flag: L1B MeasurementQualityFlags bit 10 is set for radiance

or solar product used.

Bit 5 - Spacecraft Maneuver Flag: L1B MeasurementQualityFlags bit 11 is

set for radiance or solar product used.

Bit 6 - Instrument Setting Error Flag: Values for Earth and solar

InstrumentConfigurationId are not compatible.

Bit 7 - To be defined (currently set to 0).

- Field Name:	NumberSmallPixelColumns
Data Type:	HE5T_NATIVE_UINT8
Dimensions:	nCandidate,YDim,XDim
Minimum Value:	0
Maximum Value:	5
Missing Value:	255
Offset:	0.0
Scale Factor:	1.0

Units: NoUnits
Data Source: L2
Title: Number of Small Pixel

Columns

Unique Field Definition: OMI-Specific

Description: >

The number of small-pixel-column co-additions for each L2 candidate scene in each L2G grid cell. This is either 0 (for no or invalid small pixel column selected) or the number of co-additions.

- Field Name: O3BelowCloud
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0.0
Maximum Value: 100.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: DU
Data Source: L2
Title: Ozone Below Fractional

Cloud

Unique Field Definition: TOMS-OMI-Shared

Description: >

The ozone amount below fractional cloud (in DU) for each L2 candidate scene in each L2G grid cell.

- Field Name: QualityFlags
Data Type: HE5T_NATIVE_UINT16
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0
Maximum Value: 65534
Missing Value: 65535
Offset: 0.0

Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Quality Flags
Unique Field Definition: TOMS-OMI-Shared
Description: >

The quality flags for each L2 candidate scene in each L2G grid cell:

Bits 0 to 3 together contain several output error flags:

- 0 - good sample
 - 1 - glint contamination (corrected)
 - 2 - $\text{sza} > 84$ (degree)
 - 3 - $360 \text{ residual} > \text{threshold}$
 - 4 - $\text{residual at unused ozone wavelength} > 4 \text{ sigma}$
 - 5 - $\text{SOI} > 4 \text{ sigma}$ (SO2 present)
 - 6 - non-convergence
 - 7 - $\text{abs}(\text{residual}) > 16.0$ (fatal)
- Add 8 for descending data.

Bits 4 to 5 are reserved for future use (currently set to 0).

Bit 6 - set to 0 when data are unaffected by OMI instrument row anomaly,
set to 1 when data are affected.

Bit 7 - set to 0 when OMI cloud (OMCLDRR or OMCLD02) pressure is used,
set to 1 when climatological cloud pressure is used.

Bits 8 to 15 are flags that are set to 0 for FALSE (good value), or
1 for TRUE (bad value):

Bit 8 - geolocation error (anomalous FOV Earth location)

Bit 9 - $\text{sza} > 88$ (degree)

Bit 10 - missing input radiance

Bit 11 - error input radiance

Bit 12 - warning input radiance

Bit 13 - missing input irradiance

Bit 14 - error input irradiance

Bit 15 - warning input irradiance

- Field Name: RadiativeCloudFraction
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0.0
Maximum Value: 1.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Radiative Cloud Fraction

= $\text{fc} * \text{lc331} / \text{lm331}$

Unique Field Definition: TOMS-OMI-Shared

Description: >

The radiative cloud fraction (= $\text{fc} * \text{lc331} / \text{lm331}$) for each L2 candidate scene in each L2G grid cell.

- Field Name: Reflectivity331
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -15.0
Maximum Value: 115.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: "%"

Data Source: L2
Title: Effective Surface
Reflectivity at 331 nm
Unique Field Definition: TOMS-OMI-Shared
Description: >
The effective surface reflectivity at 331 nm (in percent) for each L2 candidate scene in each L2G grid cell.

- Field Name: Reflectivity360
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -15.0
Maximum Value: 115.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: "%"
Data Source: L2
Title: Effective Surface

Reflectivity at 360 nm
Unique Field Definition: TOMS-OMI-Shared
Description: >
The effective surface reflectivity at 360 nm (in percent) for each L2 candidate scene in each L2G grid cell.

- Field Name: Residual
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,nWavel,YDim,XDim
Minimum Value: -32.0
Maximum Value: 32.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits

Data Source: L2
Title: N-Value Residual
Unique Field Definition: TOMS-OMI-Shared
Description: >

The N-value residuals for each L2 candidate scene in each L2G grid cell.

- Field Name: SmallPixelColumn
Data Type: HE5T_NATIVE_INT16
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0
Maximum Value: 1000
Missing Value: -32767
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: Small Pixel Column
Unique Field Definition: OMI-Specific
Description: >

The small-pixel-column number for each L2 candidate scene in each L2G grid cell. This is the column number on the CCD for which the pixels are additionally transmitted without co-addition.

- Field Name: SO2index
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -300.0
Maximum Value: 300.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: SO2 Index

Unique Field Definition: TOMS-OMI-Shared

Description: >

The SO2 index for each L2 candidate scene in each L2G grid cell.

- Field Name: StepTwoO3
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 50.0
Maximum Value: 700.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: DU
Data Source: L2
Title: Step 2 Ozone Solution
Unique Field Definition: TOMS-OMI-Shared
Description: >

The step 2 ozone solution (in DU) for each L2 candidate scene in each L2G grid cell.

- Field Name: TerrainPressure
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: 0.0
Maximum Value: 1013.25
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: hPa
Data Source: L2
Title: Terrain Pressure
Unique Field Definition: TOMS-OMI-Shared
Description: >

The terrain pressure (in hPa) at the center of each L2 candidate scene in

each L2G grid cell.

- Field Name: UVAerosolIndex
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nCandidate,YDim,XDim
Minimum Value: -30.0
Maximum Value: 30.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: NoUnits
Data Source: L2
Title: UV Aerosol Index
Unique Field Definition: TOMS-OMI-Shared
Description: >

The UV aerosol index for each L2 candidate scene in each L2G grid cell.

- Field Name: Wavelength
Data Type: HE5T_NATIVE_FLOAT
Dimensions: nWaveL
Minimum Value: 300.0
Maximum Value: 400.0
Missing Value: -1.2676506e+30
Offset: 0.0
Scale Factor: 1.0
Units: nm
Data Source: L2
Title: Wavelength
Unique Field Definition: TOMS-OMI-Shared
Description: The wavelengths (in nm)

used in the OMT03 algorithm.

Core Metadata:

- Metadata Name: AssociatedInstrumentShortName
Mandatory: T

Data Type: VA20
Number of Values: 1
Valid: OMI
Data Source: MCF
Description: Actual is "OMI".

- Metadata Name: AssociatedPlatformShortName
Mandatory: T
Data Type: VA20
Number of Values: 1
Valid: Aura
Data Source: MCF
Description: Actual is "Aura".

- Metadata Name: AssociatedSensorShortName
Mandatory: T
Data Type: VA20
Number of Values: 1
Valid: CCD Ultra Violet, CCD Visible
Data Source: MCF
Description: Actual is "CCD Ultra Violet".

- Metadata Name: AutomaticQualityFlag
Mandatory: T
Data Type: VA20
Number of Values: 1
Valid: Passed, Suspect, Failed
Data Source: PGE
Description: Actual is "Failed".

- Metadata Name: AutomaticQualityFlagExplanation
Mandatory: T
Data Type: VA255
Number of Values: 1
Data Source: PGE
Description: >
Actual is "An automatic quality investigation has

not yet been devised."

- Metadata Name: DayNightFlag
Mandatory: T
Data Type: VA5
Number of Values: 1
Valid: Day,Night,Both
Data Source: MCF
Description: Actual is "Day".

- Metadata Name: EastBoundingCoordinate
Mandatory: T
Data Type: LF
Number of Values: 1
Minimum Value: -180.0
Maximum Value: 180.0
Data Source: PGE
Description: >

The terrestrial longitude (in degrees) of the easternmost data in the L2G granule, which is typically 180.0 degrees.

- Metadata Name: EquatorCrossingDate
Mandatory: T
Data Type: D
Number of Values: 1,16
Data Source: L2
Description: >

The date of the ascending equator crossing for each L2 input granule.

- Metadata Name: EquatorCrossingLongitude
Mandatory: T
Data Type: LF
Number of Values: 1,16
Minimum Value: -180.0
Maximum Value: 180.0

Data Source: L2

Description: >

The terrestrial longitude of the ascending equator crossing for each L2 input granule.

- Metadata Name: EquatorCrossingTime

Mandatory: T

Data Type: T

Number of Values: 1,16

Data Source: L2

Description: >

The time of the ascending equator crossing for each L2 input granule.

- Metadata Name: InputPointer

Mandatory: T

Data Type: VA255

Number of Values: 1,16

Data Source: PCF

Description: >

A list of the L2 input granules. Example is

("OMI-Aura_L2-OMT03_2005m0121t2301-
o02777_v002-2005m0625t035912.he5",

"OMI-Aura_L2-OMT03_2005m0122t0039-
o02778_v002-2005m0625t035923.he5",

"OMI-Aura_L2-OMT03_2005m0122t0218-
o02779_v002-2005m0625t035926.he5",

"OMI-Aura_L2-OMT03_2005m0122t0357-
o02780_v002-2005m0625t035846.he5",

"OMI-Aura_L2-OMT03_2005m0122t0536-
o02781_v002-2005m0625t035925.he5",

"OMI-Aura_L2-OMT03_2005m0122t0715-
o02782_v002-2005m0625t035935.he5",

"OMI-Aura_L2-OMT03_2005m0122t0854-
o02783_v002-2005m0625t035929.he5",

"OMI-Aura_L2-OMT03_2005m0122t1033-

o02784_v002-2005m0625t035923.he5",
 "OMI-Aura_L2-OMT03_2005m0122t1212-
 o02785_v002-2005m0625t035921.he5",
 "OMI-Aura_L2-OMT03_2005m0122t1351-
 o02786_v002-2005m0625t035949.he5",
 "OMI-Aura_L2-OMT03_2005m0122t1529-
 o02787_v002-2005m0625t035933.he5",
 "OMI-Aura_L2-OMT03_2005m0122t1708-
 o02788_v002-2005m0625t035927.he5",
 "OMI-Aura_L2-OMT03_2005m0122t1847-
 o02789_v002-2005m0625t035956.he5",
 "OMI-Aura_L2-OMT03_2005m0122t2026-
 o02790_v002-2005m0625t035923.he5",
 "OMI-Aura_L2-OMT03_2005m0122t2205-
 o02791_v002-2005m0625t035939.he5",
 "OMI-Aura_L2-OMT03_2005m0122t2344-
 o02792_v002-2005m0625t035954.he5").

- Metadata Name: LocalGranuleID
- Mandatory: T
- Data Type: VA80
- Number of Values: 1
- Data Source: PGE
- Description: >
 Example is "OMI-Aura_L2G-
 OMT03G_2005m0122_v002-2005m1111t023553.he5"
 (see Appendix E of Reference 4).

- Metadata Name: LocalityValue
- Mandatory: T
- Data Type: VA20
- Number of Values: 1
- Data Source: MCF
- Description: Actual is "Global".

- Metadata Name: LOCALVERSIONID
- Mandatory: T

Data Type: VA60

Number of Values: 1

Data Source: PCF

Description: >

MD5 fingerprint of the HDF product file. Example
valids are

"RFC1321 MD5 = not yet calculated" and "RFC1321
MD5 = [0-9,a-f]{32}".

- Metadata Name: NorthBoundingCoordinate

Mandatory: T

Data Type: LF

Number of Values: 1

Minimum Value: -90.0

Maximum Value: 90.0

Data Source: PGE

Description: >

The terrestrial latitude (in degrees) of the
northernmost data in the L2G
granule, which typically lies in the range from
65.0 to 90.0 degrees.

- Metadata Name: OperationalQualityFlag

Mandatory: T

Data Type: VA20

Number of Values: 1

Valid: >

Passed,Failed,Being Investigated,Not
Investigated,Inferred Passed,
Inferred Failed,Suspect

Data Source: PGE

Description: >

Actual is "Passed".

- Metadata Name:

OperationalQualityFlagExplanation

Mandatory: T

Data Type: VA255

Number of Values: 1

Data Source: PGE

Description: >

Actual is "This granule passed operational tests that were administered by the OMI SIPS. QA metadata was extracted and the file was successfully read using standard HDF-EOS utilities."

- Metadata Name: OrbitNumber

Mandatory: T

Data Type: I

Number of Values: 1,16

Minimum Value: 1

Maximum Value: 999999

Data Source: L2

Description: The OMI orbit number for each L2 input granule.

- Metadata Name: ParameterName

Mandatory: T

Data Type: VA40

Number of Values: 1

Valid: Total Column Ozone Gridded

Data Source: PGE

Description: >

The measured science parameter expressed in the L2G granule. Actual is "Total Column Ozone Gridded".

- Metadata Name: PGEVERSION

Mandatory: T

Data Type: VA10

Number of Values: 1

Data Source: PCF

Description: Example is "1.0.5" (see

Appendix K of Reference 4).

- Metadata Name: ProductionDateTime
Mandatory: T
Data Type: DT
Number of Values: 1
Data Source: TK
Description: The date and time of the Level
2G processing.

- Metadata Name: QAPercentMissingData
Mandatory: T
Data Type: I
Number of Values: 1
Minimum Value: 0
Maximum Value: 100
Data Source: PGE
Description: >
An average for the entire L2G granule of the
percent of missing Level 1B
calibrated radiance data.

- Metadata Name: RangeBeginningDate
Mandatory: T
Data Type: D
Number of Values: 1
Data Source: PGE
Description: The year, month and day when
the L2G granule begins.

- Metadata Name: RangeBeginningTime
Mandatory: T
Data Type: T
Number of Values: 1
Data Source: PGE
Description: >
The hour, minute, second and fraction of a second

when the L2G granule begins.

- Metadata Name: RangeEndingDate
Mandatory: T
Data Type: D
Number of Values: 1
Data Source: PGE
Description: The year, month and day when the L2G granule ends.

- Metadata Name: RangeEndingTime
Mandatory: T
Data Type: T
Number of Values: 1
Data Source: PGE
Description: >
The hour, minute, second and fraction of a second when the L2G granule ends.

- Metadata Name: REPROCESSINGACTUAL
Mandatory: T
Data Type: VA20
Number of Values: 1
Valid: >
processed 1 time,processed 2 times,processed 3 times,processed 4 times
Data Source: PCF
Description: >
An indication of what reprocessing has been performed on the L2G granule.

- Metadata Name: ReprocessingPlanned
Mandatory: T
Data Type: VA40
Number of Values: 1
Valid: >

no further update anticipated, further update is anticipated,

further update anticipated using enhanced PGE

Data Source: DP

Description: Actual is "further update is anticipated".

- Metadata Name: ScienceQualityFlag

Mandatory: T

Data Type: VA20

Number of Values: 1

Valid: >

Passed, Failed, Being Investigated, Not Investigated, Inferred Passed,

Inferred Failed, Suspect

Data Source: DP

Description: Actual is "Not Investigated".

- Metadata Name: ScienceQualityFlagExplanation

Mandatory: T

Data Type: VA255

Number of Values: 1

Data Source: DP

Description: >

Actual is "An updated science quality flag and explanation is put in the

product .met file when a granule has been evaluated. The flag value in

this file, Not Investigated, is an automatic default that is put into

every granule during production."

- Metadata Name: ShortName

Mandatory: T

Data Type: VA8

Number of Values: 1

Valid: OMT03G

Data Source: MCF
Description: Actual is "OMT03G".

- Metadata Name: SizeMBECSDataGranule
Mandatory: F
Data Type: LF
Number of Values: 1
Minimum Value: 0.0
Maximum Value: 10000.0
Data Source: DSS
Description: >

The volume of data (in MB) contained in the L2G granule (this Metadata will not appear in the L2G granule).

- Metadata Name: SouthBoundingCoordinate
Mandatory: T
Data Type: LF
Number of Values: 1
Minimum Value: -90.0
Maximum Value: 90.0
Data Source: PGE
Description: >

The terrestrial latitude (in degrees) of the southernmost data in the L2G granule, which typically lies in the range from -90.0 to -65.0 degrees.

- Metadata Name: VERSIONID
Mandatory: T
Data Type: SI
Number of Values: 1
Minimum Value: 0
Maximum Value: 999
Data Source: PCF
Description: Example is 3.

- Metadata Name: WestBoundingCoordinate
Mandatory: T
Data Type: LF
Number of Values: 1
Minimum Value: -180.0
Maximum Value: 180.0
Data Source: PGE
Description: >

The terrestrial longitude (in degrees) of the westernmost data in the L2G granule, which is typically -180.0 degrees.

Product Specific Attributes:

- Metadata Name: ExpeditedData
Mandatory: T
Data Type: VA10
Number of Values: 1
Valid: TRUE,FALSE
Data Source: PGE
Description: The indicator for expedited Level 0 data.

- Metadata Name: ExposureTimes
Mandatory: T
Data Type: F
Number of Values: 1,256
Minimum Value: 0.0
Maximum Value: 2000.0
Data Source: PGE
Description: >
An array containing the exposure times in seconds used for the measurements.

- Metadata Name: MasterClockPeriods
Mandatory: T
Data Type: F

Number of Values: 1,128

Minimum Value: 0.0

Maximum Value: 10.0

Data Source: PGE

Description: >

An array containing the master clock periods in seconds used for the measurements.

- Metadata Name: NrMeasurements

Mandatory: T

Data Type: I

Number of Values: 1

Minimum Value: 0

Maximum Value: 30000

Data Source: PGE

Description: >

The number of measurements used to create the L2G granule.

- Metadata Name: NrSpatialZoom

Mandatory: T

Data Type: I

Number of Values: 1

Minimum Value: 0

Maximum Value: 0

Data Source: PGE

Description: >

The number of measurements in spatial zoom mode. Actual is 0, because zoom measurements are excluded from the L2G granule.

- Metadata Name: NrSpectralZoom

Mandatory: T

Data Type: I

Number of Values: 1

Minimum Value: 0
Maximum Value: 0
Data Source: PGE
Description: >

The number of measurements in spectral zoom mode. Actual is 0, because zoom measurements are excluded from the L2G granule.

- Metadata Name: NrZoom
Mandatory: T
Data Type: I
Number of Values: 1
Minimum Value: 0
Maximum Value: 0
Data Source: PGE
Description: >

The number of measurements in zoom modes. Actual is 0, because zoom measurements are excluded from the L2G granule.

- Metadata Name: SolarEclipse
Mandatory: T
Data Type: VA10
Number of Values: 1
Valid: TRUE,FALSE
Data Source: PGE
Description: >

The indicator that during part of the measurements a solar eclipse occurred.

- Metadata Name: SouthAtlanticAnomalyCrossing
Mandatory: T
Data Type: VA10
Number of Values: 1
Valid: TRUE,FALSE
Data Source: PGE

Description: >

The indicator that during part of the measurements the spacecraft was in the South Atlantic Anomaly.

- Metadata Name: SpacecraftManeuverFlag
Mandatory: T
Data Type: VA10
Number of Values: 1
Valid: TRUE,FALSE,UNKNOWN
Data Source: PGE

Description: >

The indicator that during part of the measurements the spacecraft was performing a maneuver.

Archived Metadata:

- Metadata Name: ESDDescriptorRevision
Mandatory: T
Data Type: VA10
Number of Values: 1
Data Source: MCF

Description: >

The version of the ESDD descriptor file as determined by ECS.

- Metadata Name: LongName
Mandatory: T
Data Type: VA80
Number of Values: 1
Valid: >

OMI/Aura Ozone (O3) Total Column Daily L2 Global
0.25deg Lat/Lon Grid

Data Source: MCF

Description: >

Actual is

"OMI/Aura Ozone (O3) Total Column Daily L2 Global 0.25deg Lat/Lon Grid".

References: >

1. "OMT03 README File"
(30 January 2008)
(http://disc.sci.gsfc.nasa.gov/Aura/data-holdings/OMI/omto3_v003.shtml)
1. "OMI Algorithm Theoretical Basis Document, Volume II, OMI Ozone Products"
(OMI-ATBD-VOL2, ATBD-OMI-02, Version 2.0, August 2002)
2. "Definition of OMI Grids for Level 3 and Level 4 Data Products"
(OMI-Grids_L3L4, SD-OMIE-KNMI-443, 25 January 2005)
3. "HDF-EOS Aura File Format Guidelines"
(OMI-AURA-DATA-GUIDE, Version 2.12, 24 October 2006)
4. "OMI Science Software Delivery Guide for Version 0.9"
(OMI-SSDG-0.9.10, Version 0.9.10, 22 June 2005)
5. "OMI GDPS Input/Output Data Specification (IODS) Volume 2"
(OMI-GDPS-IODS-2, SD-OMIE-7200-DS-467, 8 November 2004)
6. "OMT03G ECS Metadata Requirements"
(OMI-OMT03G_Metadata_RD, Version 0.9.30, 12 August 2005)

7. "Release 6A Implementation Earth Science Data Model for the ECS Project"
(420-TP-022-002, June 2001)
(<http://edhs1.gsfc.nasa.gov/waisdata/rel6/html/tp4202202.html> and
http://edhs1.gsfc.nasa.gov/waisdata/rel6/html/tp42022_adds.html)