Mapped out final product

V1.2 - minimalist

Guide

Underlined words indicate a group.

Not-underlined words indicate data.

The position within the sub lists indicates the organization of the groups.

Green highlighted data indicates it is of the type GeoTraj (has coordinates).

Pink highlighted data indicates it is of the Geo2D type (has coordinates).

Yellow highlighted data indicate it is of the 1D type.

Blue highlighted data indicate it is of the 2D type.

Without being highlighted indicates the type showed a - . This seems to be a scalar, a chart or unknown (looks like a description). Assume a scalar unless otherwise noted.

Acronyms – a chart of acronyms

Fire

* MODIS/Aqua\_Thermal\_Anomalies/Fire\_5-Min\_L2\_Swath\_1km\_V061
  + Algorithm QA
  + CMG night
  + Fire mask
  + FP CMG col
  + FP CMG row
  + FP confidence – detection confidence
  + FP land – land pixel flag
  + FP latitude – latitude of fire pixel
  + FP line – granule line of fire pixel
  + FP longitude – longitude of fire pixel
  + FP power – fire radiative power
  + FP sample – granule sample of fire pixel
* MODIS/Terra\_Thermal\_Anomalies/Fire\_5-Min\_L2\_Swath\_1km\_V061
  + Algorithm QA
  + CMG night
  + Fire mask
  + FP CMG col
  + FP CMG row
  + FP confidence – detection confidence
  + FP land – land pixel flag
  + FP latitude – latitude of fire pixel
  + FP line – granule line of fire pixel
  + FP longitude – longitude of fire pixel
  + FP power – fire radiative power
  + FP sample – granule sample of fire pixel

Lightning

* Non-Quality\_Controlled\_Lightning\_Imaging\_Sensor\_(LIS)\_on\_International\_Space\_Station\_(ISS)\_Science\_Data\_V2
  + one second
    - Event count – raw event count and counts surviving filters at each processing stage
    - Thresholds - values of the instrument threshold settings for each 256 count background interval
  + Point
    - Area
      * Address – area record number
      * Child address – address of first flash in a sequential list
      * Child count – number of flashes in area
      * Delta time - time between first and last event that compose the area
      * Density index – lightning activity, spatial density metric; higher if area geolocated in a region of high lightning activity
      * Footprint – unique area extent
      * Grandchild count – number of groups in area
      * Greatgrandchild count – number of events in area
      * Grouping sequence – area time order
      * Location - lat/lon radiance-weighted centroid
      * Net radiance – total radiance of the area
      * TAI93 time - TAI93 time of 1st event in area
    - Bg\_summary
      * Address – image number within orbit
      * TAI93 time – TAI93 time of the background image
    - Event
      * Address – event record number
      * Amplitude - uncalibrated optical amplitude reported by instrument (a 7-bit digital count)
      * Density index - spatial density metric; higher if event geolocated in a region of high lightning activity
      * Footprint – unique area extent
      * Grouping sequence - time sequence of event used when grouping algorithm is applied
      * Location
      * Parent address - event parent record number
      * Radiance – calibrated radiance
      * TAI93 time - TAI93 time of event
    - Flash
      * Address – flash record number
      * Child address - address of 1st group in a sequential list
      * Child count - number of groups in flash
      * Delta time - time between first and last group that compose the flash
      * Density index - spatial density metric; higher if flash geolocated in a region of high lightning activity
      * Footprint - unique flash extent
      * Grandchild count - number of events in flash
      * Grouping sequence - time sequence of flash used when grouping algorithm is applied
      * Location
      * Parent address - flash parent record number
      * Radiance - sum of event radiances composing this flash
      * TAI93 time - TAI93 time of 1st event in flash
    - Group
      * Address – group record number
      * Child address - address of 1st event in a sequential list
      * Child count - number of events in group
      * Density index - spatial density metric; higher if group geolocated in a region of high lightning activity
      * Footprint – unique group extent
      * Grouping sequence - time sequence of group used when grouping algorithm is applied
      * Location
      * Parent address - group parent record number
      * Radiance - sum of event radiances composing this group
      * TAI93 time - TAI93 time of all events in group

Nitrogen\_Dioxide

* OMI/Aura\_NO2\_Tropospheric\_Stratospheric\_&\_Total\_Columns\_MINDS\_1-Orbit\_L2\_Swath\_13\_km\_x\_24\_km\_V1\_(OMI\_MINDS\_NO2)\_at\_GES\_DISC
  + nCorners – ground pixel corner number
  + nLevels – pressure level number
  + nTimes – along track line number
  + nXtrack – cross track position number
  + SCIENCE DATA
    - Amf Strat – stratospheric Air Mass Factor
    - Amf Strat Std – precision
    - Amf Trop – tropospheric amf
    - Amf Trop Std – precision
    - Column Amount NO2 – NO2 vertical column density
    - Column Amount NO2 Std – precision
    - Column Amount NO2 Strat – NO2 stratospheric column density
    - Column Amount NO2 Strat Std – precision
    - Column Amount NO2 Trop – NO2 Tropospheric column density
    - Column Amount NO2 Trop Std – precision
    - Scattering Weight – scattering weight profile
    - Slant Column Amount NO2 – NO2 slant column density
    - Slant Column Amount NO2 Std – precision
    - Vcd Quality Flags – vertical column density quality flags

Power\_Outages

* VIIRS/NPP\_Gap-Filled\_Lunar\_BRDF-Adjusted\_Nighttime\_Lights\_Daily\_L3\_Global\_500m\_Linear\_Lat\_Lon\_Grid
  + DNB BRDF Corrected NTL – bidirectional reflectance distribution function corrected day-night band radiance
  + Gap Filled DNB BRDF Corrected NTL – Gap filled BRDF corrected DNB radiance
  + Latest High Quality Retrieval – latest high quality BRDF corrected DNB radiance retrieval
  + Mandatory Quality Flag – mandatory quality flag of BRDF corrected DNB radiance