

Metadata Documentation for the CIRA Creation of NASA Satellite Images

Start	End	Tar	Copy	Untar	NASA DATA	Mean	Stdev	Total
10/22 9:22	10/24 3:54	10/24	10/24	10/24	AURA OMNO2G	84.0 sec	7.6 sec	42 hr 35 min
10/23 14:46	10/23 15:50	10/23	10/23	10/23	TERRA CMAQ	1.2 sec	0.39 sec	64 min
10/23 15:56	10/23 17:17	10/23	10/23	10/23	AQUA CMAQ	1.2 sec	0.43 sec	81 min
10/24 4:07	10/24 4:24	10/24	10/24	10/24	GASP CMAQ	1.2 sec	0.49 sec	17 min
10/24 4:29	10/24 15:21	10/26	10/26	10/26	AURA OMAEROe.003	25.2 sec	1.0 sec	10 hr 52 min
10/24 15:21	10/24 16:17	10/26	10/26	10/26	AURA OMAERUVd.003	1.9 sec	0.35 sec	56 min
10/24 16:17	10/26 00:24	10/26	10/26	10/26	AURA OMDOAO3e.003	68.4 sec	6.2 sec	32 hr 7 min
10/26 00:25	10/26 16:47	10/26	10/26	10/26	AURA OMTO3e.003	33.4 sec	2.8 sec	16 hr 22 min
10/27 06:57	10/27 19:51	10/28	10/28	10/28	TERRA MOD08_D3.005	35.3 sec	1.7 sec	12 hr 54 min
10/27 19:51	10/28 08:31	10/28	10/28	10/28	AQUA MYD08_D3.051	34.5 sec	1.6 sec	12 hr 40 min

Scripts that make GrADS control (.ctl) and script (.gs) files for producing GIF images:

- make_Aura_L2_NO2_Images.sh change into the /nasa/s4pa/Aura_OMI_Level2G/OMNO2G.003 data directory and call:
 - he5_grads_no2g.sh
 - ColumnAmountNO2/ColumnAmountNO2
 - ColumnAmountNO2/ColumnAmountNO2BelowCloud
 - ColumnAmountNO2/ColumnAmountNO2Polluted
 - ColumnAmountNO2CloudFraction
- make_MOD04_CMAQ_Terra_images.sh change into the /nasa/cmaq/MOD04_CMAQ/Terra data directory and call:
 - netcdf_terra_cmaq.sh
 - Optical_Depth/MODIS_AOD_Terra_on_CMAQ_grid
- make_MOD04_CMAQ_Aqua_images.sh change into the /nasa/cmaq/MOD04_CMAQ/Aqua data directory and call:
 - netcdf_aqua_cmaq.sh
 - Optical_Depth/MODIS_AOD_Aqua_on_CMAQ_grid
- make_MOD04_CMAQ_Gasp_images.sh changes into the /nasa/cmaq/MOD04_CMAQ/Gasp/ data directory and calls:
 - netcdf_gasp_cmaq.sh
 - Optical_Depth/GASP_AOD_on_CMAQ_grid
- make_Aura_L3_Images.sh changes into the OMAEROe.003 OMAERUVd.003 OMDOAO3e.003 OMTO3e.003 data directories and calls respectively:
 - he5_grads_omaeroe.sh
 - ColumnAmountAerosol/AbsorbingAerosolOpticalThicknessMW
 - ColumnAmountAerosol.AerosolModeIMW
 - ColumnAmountAerosol/AerosolOpticalThicknessMW
 - he5_grads_omaeruvd.sh
 - Aerosol_NearUV_Grid/FinalAerosolAbsOpticalDepth388
 - Aerosol_NearUV_Grid/FinalAerosolAbsOpticalDepth500
 - Aerosol_NearUV_Grid/FinalAerosolExtOpticalDepth388
 - Aerosol_NearUV_Grid/FinalAerosolExtOpticalDepth500
 - he5_grads_omdoao3e.sh
 - ColumnAmountO3/GhostColumnAmountO3
 - ColumnAmountO3ColumnAmountO3
 - ColumnAmountO3/CloudFraction
 - ColumnAmountO3/CloudPressure
 - he5_grads_omto3e.sh
 - OMI_Column_Amount_O3/ColumnAmountO3
 - OMI_Column_Amount_O3/RadiativeCloudFraction
- make_MODIS_directories.sh creates the MODIS image directory structure
- make_MODIS_images.sh changes into the MODIS data directories and calls:
 - hdf_grads_modis creates the Terra and Aqua MODIS images
 - Optical_Depth and Angstrom_Exponent parameters
 - multiple datasets per parameter

Note: Terra and Aqua use MODIS instrumentation and Aura uses OMI instrumentation