U.S. DEPARTMENT OF ENERGY

Prepared for the U.S. Department of Energy
under Contract DE-AC05-76RL01830

The Aerosol Modeling Testbed:
MILAGRO Field Campaign Data in the Analysis Toolkit

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July 2009

Pacific Northwest
NATIONAL LABORATORY

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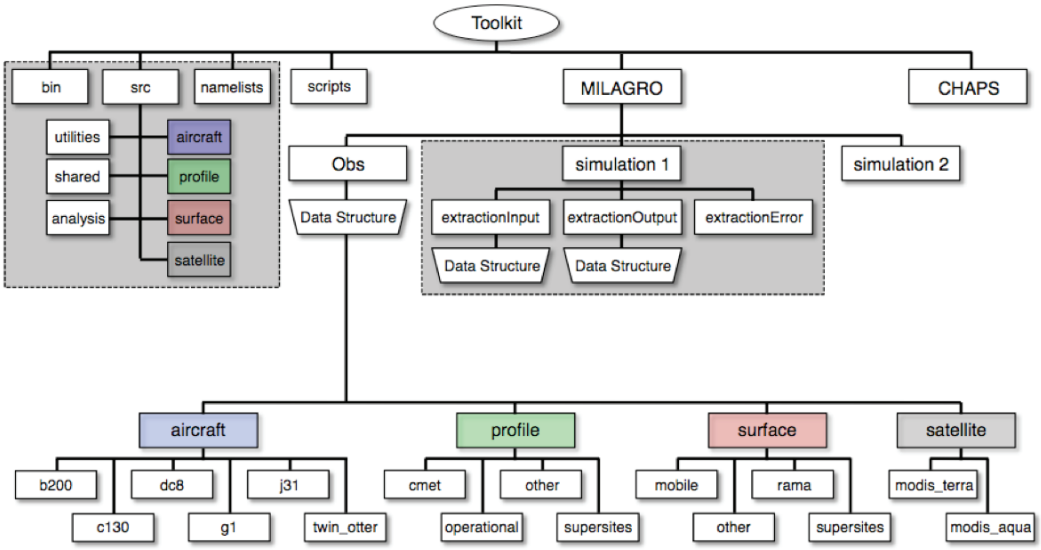
June 11, 2009
Version 1.0



1.0 Introduction

The Aerosol Modeling Testbed (AMT) is a computational framework that streamlines the process of testing and evaluating refined aerosol process modules over a wide range of spatial and temporal scales. The AMT is composed of the chemistry version of the Weather Research and Forecasting Model (WRF-Chem) and various statistical and graphical programs, called the Analysis Toolkit, that allow investigators to systematically evaluate model performance. The Analysis Toolkit eventually will include observational data from a number of field campaigns and operational networks to permit evaluation of modules under a variety of atmospheric conditions. Version 1.0 of the Analysis Toolkit contains data for the Megacity Initiative: Local and Global Research Observations (MILAGRO) field campaign, conducted during March 2006 in the vicinity of Mexico City [*Molina et al.*, 2008].

The structure and format of observational data files included in the Analysis Toolkit are critical to successful application of the AMT. Design decisions made in compiling the AMT MILAGRO testbed case will be carried forward as other field data sets are incorporated into the Analysis Toolkit. The main objectives of this report are to present the standardized Analysis Toolkit formats and file naming conventions for observational data sets, and to document how individual MILAGRO data files were converted into these standardized formats. We also use this report to summarize the measured variables included in the MILAGRO testbed case, and to depict the locations of instrumentation sites and platforms. We emphasize that MILAGRO

observational data obtained from various archival websites and individual investigators were accepted and processed "as is" for the Analysis Toolkit; for Version 1.0 *we make no claims as to the quality of included data*. Application and testing of the AMT has identified data quality issues in isolated files. Such instances are noted in this report, and we have excluded these data from automated Analysis Toolkit comparisons. However, users should be aware that no full vetting of MILAGRO testbed observational data has been performed. Users identifying additional suspect data are requested to notify the authors of this report so the information can be included in future versions of the AMT.

Section 2 describes processed data file formats and naming conventions. Section 3 catalogs the MILAGRO field variables available in this version of the AMT. Section 4 identifies the various aircraft used in the MILAGRO campaign, and the dates, times, and locations of flight paths. Section 5 identifies MILAGRO surface sites, which includes locations of comprehensive measurements (supersites) and other measurement networks. Statistical and graphical programs in the Analysis Toolkit, the overall scripts running statistical and graphical programs in automated mode, as well as information on default model-observation comparisons and how to tailor such comparisons, are documented elsewhere.

2.0 File Name Conventions and Formats

MILAGRO, like many atmospheric science field campaigns, produced a comprehensive set of meteorological, trace gas, and aerosol measurements stored in a variety of file formats. Standardized ASCII text files, such as the ICARRT [*NOAA*, 2009] and NARSTO Data Exchange Standard (DES) [*ORNL*, 2009] formats, were used in reporting data from platforms with extensive measurement capabilities, e.g., the National Center for Atmospheric Research's (NCAR's) C-130 and the National Aeronautical and Space Administration's (NASA's) DC-8 aircraft. Binary, NetCDF, or other community formats were used for larger data files, such as those produced from lidars and instruments deployed on satellites. Individual investigators operating a few instruments, and operational networks not directly associated with the field campaign but producing observations useful in the AMT (e.g., for MILAGRO, Mexico's national meteorological service, Servicio Meteorologico Nacional), tended to report data in the form of spreadsheets, databases, or delimited text files.

To permit observed and simulated quantities to be compared within the AMT, observational data files related to a given field campaign first must be processed into standardized formats and assembled into a single testbed case. For the MILAGRO campaign, observational data files were classified into four main categories (aircraft, profile, satellite, and surface) and these categories were used to define the main file structure, as shown in Figure 2.1. Conventions for file names and file formats differ among the four categories, reflecting differences in where and how measurements were obtained. However, all observational data files names use lower case letters exclusively and reflect the name of the observed quantity (e.g., temperature, ozone, aerosol optical depth, etc.) and the file type (e.g., ascii or netcdf). All observational data files also use -999.00 exclusively as a missing data code; investigator files using a variety of codes to indicate different reasons for missing or suspect data had such values converted to -999.00 during processing. Negative values occurring in processed files represent actual values reported by instrument mentors and tend to occur more often, but not exclusively, for fast response instruments.

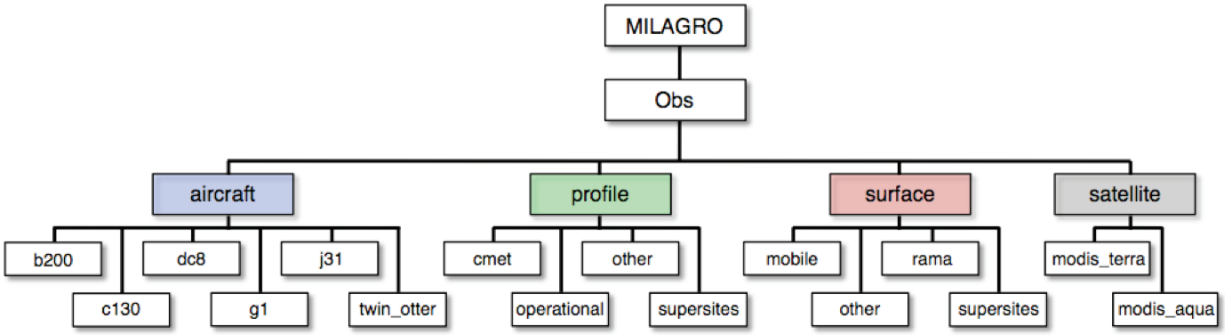


Figure 2.1 Directory Structure of the MILAGRO Testbed Case within the AMT Analysis Toolkit.

Scripts were developed using Visual Basic for Application (VBA) to process archived data into standard file formats that can be handled by the Analysis Toolkit. VBA was chosen because of its numerous intrinsic character parsing routines, which simplifies the task of reading and processing the diverse set of file formats. This section describes each standardized format and provides a sample excerpt from a processed datafile.

2.1 *Aircraft Data*

Aircraft data in the MILAGRO testbed case include measurements from six research aircraft: the NASA B-200; the NCAR C-130, the National Oceanic and Atmospheric Administration (NOAA) DC-8, the U.S. Department of Energy (DOE) Gulfstream-1 (G-1), the NASA J-31, and the U.S. Forest Service (USFS) Twin Otter. Section 5 summarizes the date, duration, and location of all aircraft flights.

Subdirectories under the main MILAGRO aircraft directory identify the aircraft type (see Figure 2.1). The next level of subdirectories repeats the aircraft type and also includes the date flown (*yymmdd*), and the data revision number, named using the following convention:

aircraft_yymmdd_revision

Revision numbers are included because data releases from research aircraft organizations typically include both a preliminary and a final release.

Each aircraft flight subdirectory contains a location file named using the following convention:

aircraft_yymmdd_loc.txt

where *aircraft* identifies the aircraft type, *yymmdd* identifies the flight year, month, and day, and *loc.txt* indicates a text file specifying aircraft locations. The location file contains flight coordinate information, including latitude (*Lat*), longitude (*Lon*), altitude (*Alt*) in meters above mean sea level (MSL) at a given date and time [year (*Year*), Month (*Mn*), Day (*Day*), and time in UTC (*TimeUTC*)]. For aircraft using instruments providing vertical profiles, such as the lidar instrument onboard the DC-8, the location file also contains the number of measurement levels

(*N*) followed by a listing of those measurement levels (*Levels*) in meters above MSL. In addition, the location file contains a transect flag (*tflag*) which is used to indicate whether the aircraft is changing altitude or is maintaining a quasi-horizontal flight path. Each transect is indicated by an integer value that increments by 1 to indicate the number of unique transects contained in a given file. A "0" is used to indicate the flight is changing altitude or is not maintaining a quasi-horizontal transect. A sample excerpt from an aircraft location file is shown in Table 2.1. Currently only the G-1 flights have actual transect flag values; *tflag* fields for all other aircraft are filled with zeroes as a placeholder. Much of the information given in an aircraft location file is redundant with information in an actual data file; however, various statistical and graphical programs within the Analysis Toolkit require its existence within each aircraft flight subdirectory.

Table 2.1. Example Excerpt from a Processed Aircraft Location File

Year	Mn	Day	TimeUTC	Lat	Long	Alt	tflag
2006	3	18	19.47778	19.14411	-96.1877	49.9	0
2006	3	18	19.48056	19.15030	-96.1865	90.3	0
2006	3	18	19.48333	19.15689	-96.1855	155.9	0
2006	3	18	19.48611	19.16369	-96.1853	225.7	0

...

Within each aircraft flight subdirectory in the AMT, processed aircraft data files are named according to the following basic convention, delimited by underscores:

variable_obs.txt,

where *variable* identifies the name of the processed variable and *obs.txt* indicates that it is an observations text file. Only lower case letters are used in file and directory names.

Processed aircraft data files follow the basic format presented in Tables 2.2 and 2.3. Each file begins with a series of three header lines denoted by the pound (#) sign that describe the original source data file and what quantity has been measured. The last header line contains labels identifying the data fields in subsequent rows. Each aircraft observation is contained on a separate line and includes: year (*Year*), month (*Mn*), day (*Day*), time in decimal UTC (*TimeUTC*), aircraft latitude (*Lat*), aircraft longitude (*Lon*), aircraft altitude above MSL (*Alt*), and observation value (*Value*). The unit for the variable replaces the word "unit" in the last header line of the file. A sample excerpt from an aircraft observation file is shown in Table 2.3.

Table 2.2. Example Processed Aircraft File Header

```
# Observations are from aircraft data file:
# Species is:
# Year  Mn Day    TimeUTC        Lat             Long            Alt           Value_unit
```

Table 2.3. Example Excerpt from a Processed Aircraft File

```
# Observations are from aircraft data file: g1 060318a_10
# Species is: uv_gnd
# Year  Mn Day    TimeUTC        Lat             Long            Alt           Value_W/m2
  2006   3  18    19.47778        19.1441        -96.1877           49.9        1.30000e+00
  2006   3  18    19.48056        19.1503        -96.1865           90.3        1.20000e+00
  2006   3  18    19.48333        19.1569        -96.1855          155.9        1.50000e+00
  2006   3  18    19.48611        19.1637        -96.1853          225.7        1.30000e+00
  2006   3  18    19.48889        19.1708        -96.1858          270.0        1.50000e+00

...
```

2.2 *Profile Data*

Profile data in the Analysis Toolkit contain measurements at multiple levels from platforms with either fixed (e.g., radar wind profilers, tethered balloons) or changing horizontal coordinates (e.g., radiosondes). Platforms may produce multiple observations at one time (e.g., radar wind profilers) or produce a single observation at one time (e.g., radiosondes). However, in all cases files in the profile directory provide vertically resolved observations. As shown in Figure 2.1, the MILAGRO data set contains four subdirectories under the profile directory: *cmet*,

operational, *other*, and *supersites*. The *cmet* subdirectory contains data from controlled meteorological balloons released near the Mexico City metropolitan area. The *operational* subdirectory contains data from sondes released at 0000, 0600, 1200, and 1800 UTC from selected sites throughout Mexico. The *other* subdirectory contains data from sondes released in Houston, Texas, and from a wind profiler located at Veracruz, Mexico. The *supersites* subdirectory contains profile data collected at the T0, T1, and T2 comprehensive measurement sites.

Processed profile data files use a format similar to aircraft data files. A separate location file is not required in profile directories as profile-related programs in the Analysis Toolkit expect to read location information directly from the data file. However, the *cmet* subdirectory does contain location files for ease in plotting balloon travel paths.

Processed profile data files in the Analysis Toolkit follow the basic lower case naming convention, delimited by underscores:

site_instrument_variable_obs.txt,

where *site* indicates either the fixed measurement location or, for radiosondes, the initial release point, *variable* indentifies the name of the processed variable and *obs.txt* indicates that it is an observations text file. Because release points varied for the controlled meteorological balloons, all files in the *cmet* subdirectory use "cmet" for the *site* identifier.

Processed profile data files in the AMT follow the basic format presented in Table 2.4. Each file begins with a series of headers denoted by the pound (#) sign that describe: the original data source file; the processed specie; and field labels identifying the contents of subsequent file records. The ellipse in Table 2.4 indicates that file may contain additional comment lines. These comments were noted during processing and may include insights or assumptions that were necessary in order to process the original data. Each observation is contained on a separate line and includes: year (*Year*), month (*Mn*), day (*Day*), time in decimal UTC (*TimeUTC*), latitude (*Lat*) corresponding to the observation, longitude (*Lon*) corresponding to the observation, altitude above MSL (*Alt*) corresponding to the observation, and observation value (*Value*). The unit for the variable replaces the word "unit" in the last header line of the file. An example excerpt from a profile observation file is shown in Table 2.5.

Table 2.4. Example Processed Profile File Header

```
# Species is: profile_wind_direction
# Site Lat Lon Elevation (m): 19.488 -99.147 2240.6
…
# Averaging time period (minutes) = 30
# Year  Mn  Day    TimeUTC        Lat             Long            Alt      tflag   Value_deg
```

Table 2.5. Example Excerpt from a Processed Profile File

```
# Species is: profile_wind_direction
# Site Lat Lon Elevation (m): 19.488 -99.147 2240.6
# Multiple profile files merged into single file ordered by increasing time
# Values with a quality flag other than 0 are reported as missing
# Alt is altitude in meters above mean sea level (MSL)
# Timestamp indicates end of averaging period
# Averaging time period (minutes) = 30
# Year  Mn  Day    TimeUTC        Lat             Long             Alt      tflag   Value_deg
  2006   3   7      0.50389       19.48800        -99.14700       2439.6     7      5.00000e+00
  2006   3   7      0.50389       19.48800        -99.14700       2535.6     7      6.00000e+00
  2006   3   7      0.50389       19.48800        -99.14700       2631.6     7      8.00000e+00
…
```

2.3 *Surface Data*

Surface data in the MILAGRO testbed case include measurements from designated field campaign sites, such as comprehensive measurement sites (so-called "supersites"), from mobile measurement laboratories that provide measurements at fixed and on-road locations, and existing network sites that are not associated with the field campaign but, because of their location, provide useful comparisons for the AMT. As shown in Figure 2.1, under the surface directory the MILAGRO data set contains four subdirectories corresponding to these categories: *supersites*, *mobile*, *rama*, and *other*. The *rama* subdirectory contains routine meteorological, trace gas, and particulate matter measurements from Mexico City's Red Automatica de Monitoreo Atmosferico (RAMA) air-quality monitoring network. The *other* subdirectory includes measurements from sites operated by the Servicio Meteorológico Nacional (SMN), the Pembu Center for Atmospheric Sciences, and NASA, among others. Section 4 identifies all MILAGRO surface sites available in the testbed case. Coordinate information for surface sites are stored in location files within each surface subdirectory.

Processed surface data files are named according to the following basic convention, delimited by underscores:

site_investigator_variable_obs.txt,

where *site* is the measurement site identifier, *investigator* identifies who performed the measurement, *variable* identifies what quantity was measured, and *obs.txt* indicates that it is an observations text file. Only lower case letters are used in file names.

Processed surface data files in the Analysis Toolkit follow the basic format presented in Table 2.6. Each file begins with a series of header lines denoted by the pound (#) sign that identify: the original source data file; what quantity has been measured; the averaging time associated with the measurements; and field labels identifying the contents of subsequent file records along with associated units. The ellipse in Table 2.1 indicates that file may contain additional comment lines. These comments were noted during processing and may include insights or assumptions that were necessary in order to process the original data. As shown in Table 2.6, the last header line in a surface data file indicates the label for the subsequent data fields; observations immediately follow this line. Each observation is contained on a separate

line and includes: year (*Year*), month (*Mn*), day (*Day*), time in decimal UTC (*TimeUTC*), and observation value (*Value*). The unit for the variable replaces the word "unit" in the last header line of the file. An example excerpt from a surface observation file is shown in Table 2.7.

Table 2.6. Example Processed Surface File Header

```
# Observations are from surface data file:
# Species is:
…
# Averaging time period (minutes) =
# Year   Mn  Day  TimeUTC         Value_unit
```

Table 2.7. Example Excerpt from a Processed Surface File

```
# Observations are from surface data file: /jimenez/MCMA2006_T0_AMS_Tseries_082407
# Species is: ams_so4
# Timestamp indicates end of averaging period
# Averaging time period (minutes) = 2
# Year   Mn  Day  TimeUTC         Value_ug/m3
  2006   3   8     4.20000        4.34923e-01
  2006   3   8     4.25000        4.97332e-01
  2006   3   8     4.28333        5.15017e-01
  2006   3   8     4.33333        5.43598e-01
…
```

2.4 *Satellite Data*

Satellite data in the AMT Toolkit is maintained in the netCDF format instead of the ASCII format used for the other data. This is primarily due to the size of the data, but this also simplifies random access within the files for quicker data access. The netCDF files are substantially larger than the HDF files used by NASA because the HDF files incorporate internal data compression, which netCDF v3.x cannot do. Future versions of the Toolkit may switch to netCDF v4 that can do compression, but not until this format is more widely accepted and supported by third party applications such as Ferret and IDL.

The format of the satellite files maintains the swath sizes of the original NASA files. In the case of MODIS data, this consists of five minutes worth of satellite data. Typically, only data variables that NASA deems useable with high confidnce are included in the Toolkit. These variables, along with coordinate and quality control flags are saved into the netCDF files. NASA encodes the quality assurance data at the bit level, which is efficient, but difficult to handle with some software. So, each bit-level flag is saved as its own variable in the netCDF files. The packing is maintained for the data variables with the packed data, scale_factor, and add_offset transferred directly from the HDF to netCDF without conversion.

The naming convention for the satellite data is as follows:

<sat><prod#>.YYYYMMDDhhmmss.nc

where <sat> is an identifier of the satellite and product, e.g. MOD or MYD for MODIS data from Terra and Aqua repectively, <prod#> is the specific product code used by NASA, e.g. 04_L2 is the Level 2 MODIS aerosol products and 06_L2 is the Level 2 MODIS cloud products, and then the remainder of the name is the date stamp associated with the observation. Note that the original name of the NASA HDF file from which the data came from is maintained as an

attribute within the netCDF file. This provides a means to know which version of data was used from NASA.

At this time, only MODIS data collected in the vicinity of Mexico has been converted for use with the Toolkit. As more satellites are used, the convetions may need to be adjusted to handle the different types of data.

Table 2.8. Example netCDF header for a Processed Satellite File

```
netcdf MYD04_L2.200603301750 {
dimensions:
        Cell_Across_Swath = 135 ;
        Cell_Along_Swath = 203 ;
variables:
        float Latitude(Cell_Along_Swath, Cell_Across_Swath) ;
                Latitude:_FillValue = -999.f ;
        float Longitude(Cell_Along_Swath, Cell_Across_Swath) ;
                Longitude:_FillValue = -999.f ;
        short Optical_Depth_Land_And_Ocean(Cell_Along_Swath, Cell_Across_Swath) ;
                Optical_Depth_Land_And_Ocean:long_name = "AOT at 0.55 micron for both ocean
(best) and land (corrected)  with best quality data(Quality flag=3)" ;
                Optical_Depth_Land_And_Ocean:_FillValue = -9999s ;
                Optical_Depth_Land_And_Ocean:missing_value = -9999s ;
                Optical_Depth_Land_And_Ocean:scale_factor = 0.001f ;
                Optical_Depth_Land_And_Ocean:add_offset = 0.f ;
                Optical_Depth_Land_And_Ocean:units = "None" ;
        byte Cloud_Mask_Determined(Cell_Along_Swath, Cell_Across_Swath) ;
                Cloud_Mask_Determined:description = "Cloud mask determination: 0=undetermined,
1=determined" ;
        byte Cloud_Mask_QualFlag(Cell_Along_Swath, Cell_Across_Swath) ;
                Cloud_Mask_QualFlag:description = "Cloud mask quality flag: 0=0-30% cloudy
pixels, 1=30-60% cloudy pixels, 2=60-90% cloudy pixels, 3=>90% cloudy pixels" ;
        byte Cloud_Mask_SnowIce(Cell_Along_Swath, Cell_Across_Swath) ;
                Cloud_Mask_SnowIce:description = "Snow/ice flag: 0=yes, 1=no" ;
        byte Cloud_Mask_LandWater(Cell_Along_Swath, Cell_Across_Swath) ;
                Cloud_Mask_LandWater:description = "Land/water flag: 0=water (ocean and lake),
1=coastal, 2=desert, 3=land" ;
        byte Quality_Assurance_Land_AOT47Useful(Cell_Along_Swath, Cell_Across_Swath) ;
                Quality_Assurance_Land_AOT47Useful:description = "Aerosol optical thickness over
ocean summary quality flag: 0=fill values, 1=valid products" ;
        byte Quality_Assurance_Land_AOT47Confidence(Cell_Along_Swath, Cell_Across_Swath) ;
                Quality_Assurance_Land_AOT47Confidence:description = "Aerosol optical thickness
over ocean confidence for average (joint) solution: 0=poor, 1=marginal, 2=good, 3=very good" ;
        byte Quality_Assurance_Ocean_Useful(Cell_Along_Swath, Cell_Across_Swath) ;
        byte Quality_Assurance_Ocean_AverageConfidence(Cell_Along_Swath, Cell_Across_Swath) ;

// global attributes:
                :HDF_source_file = "MYD04_L2.A2006089.1750.005.2007132160537.hdf" ;
                :history = "Processed for Aerosol Modeling Toolkit with mod04_swath2nc.pro on
Mon Jun  1 16:11:04 2009" ;
}
```

3.0 Types of Observations

Observations included in the Analysis Toolkit are designed to facilitate the testing and evaluation of aerosol modules. Such testing and evaluation requires a variety of parameter comparisons beyond standard aerosol physical and chemical properties, including parameters related to meteorology, transport, and gaseous components. MILAGRO observations included with the Analysis Toolkit are classified into the general categories shown in Table 3.1. The *aerosol composition* category covers measurements of aerosol chemical components, such as elemental carbon, organic carbon, sulfate, ammonium, etc., while the *aerosol radiative* category includes measurements of aerosol physical properties, such as aerosol optical depth, single scattering albedo, absorption, extinction, etc. Quantities such as downwelling or upwelling irradiance (both total and at specific wavelengths) are classified under *radiation*. Observation files related to instrument operating conditions or performance (e.g., internal temperature or relative humidity, instrument baseline noise, etc.) are classified under *instrument operation*. Files in the *logistical* category include those with mobile laboratory or aircraft location data. Files with gaseous *hydrocarbon* observations are classified separately from other *trace gas* files because of the expected interest in testing modules related to secondary organic aerosols. Other category names are self-explanatory.

Tables 3.2 through 3.5 summarize the observational data files included in the MILAGRO testbed case. Each table corresponds to one of the lowest level subdirectories shown in the file structure of Figure 2.1. For example, Table 3.2 lists files in subdirectory /aircraft/b200, Table 3.3 lists files in subdirectory /aircraft/c130, etc. The name of the file reflects the measured quantity it includes, written with the fields and formatted headers described in Section 2.

Also included in Tables 3.2 through 3.5 are the principal investigators responsible for each measurement and their contact information. We thank each of these investigators for making these measurements available.

Table 3.1. Categories of Variables Included in the MILAGRO Testbed Case.

Aerosol area	Aerosol size/volume
Aerosol composition	Aerosol volume
Aerosol mass	Hydrocarbon
Aerosol number	Instrument operation
Aerosol radiative	Logistical
Aerosol relative humidity	Meteorology
Aerosol size	Photolysis
Aerosol size/area	Radiation
Aerosol size/composition/mass	Trace gas
Aerosol size/number	

Table 3.2. Files in Subdirectory MILAGRO/Obs/aircraft/b200. Subdirectories exist for each flight and are named with the format b200_*2006*mmdd_*r*n(_*l*i), where *mm=month, dd*=day, *n*= revision number, *i*=optional.

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
aerosol_backscatter_coefficient_532_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
aerosol_depolarization_ratio_1064_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
aerosol_depolarization_ratio_532_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
aerosol_extinction_coefficient_532_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
aerosol_scattering_ratio_532_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_aerosol_backscatter_coefficient_532_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_aerosol_depolarization_ratio_1064_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_aerosol_depolarization_ratio_532_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_aerosol_extinction_coefficient_532_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_aerosol_scattering_ratio_532_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_extinction_to_backscatter_ratio_532_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
b200_20060301_r0_l1_wavelength_dependence_532_nm_locprof.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
extinction_to_backscatter_ratio_532_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	
wavelength_dependence_532_nm_obs.txt	aerosol radiative	Chris Hostetler	chris.a.hostetler@nasa.gov	B200_script.xls	

Table 3.3. Files in Subdirectory MILAGRO/Obs/aircraft/c130. Subdirectories exist for each flight and are named with the format mrg60_c130_*2006*mmdd_*r*n, where *mm=month, dd*=day, *n*= revision number.

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
jday_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
local_sun_time_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
utc_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
index_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
apsint_total_area_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_150c_dma_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_150c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_300c_dma_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_300c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_400c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_tdma_obs.txt	aerosol area	Don Collins	dcollins@tamu.edu	C130_script.xls	
inta_unheated_dma_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
inta_unheated_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasubmicron_150c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasubmicron_300c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasubmicron_400c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasubmicron_unheated_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasupermicron_150c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasupermicron_300c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasupermicron_400c_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intasupermicron_unheated_opc_obs.txt	aerosol area	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
ams_cl_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_mf_cl_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_mf_nh4_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_mf_no3_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
ams_mf_org_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_mf_so4_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_nh4_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_no3_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_org_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
ams_so4_obs.txt	aerosol composition	Jose Jimenez	jose.jimenez@colorado.edu	C130_script.xls	
om_obs.txt	aerosol composition	Lynn Russell	lmrussell@ucsd.edu	C130_script.xls	
pils_ca_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_cl_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_k_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_mg_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_na_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_nh4_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_no3_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_so4_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
pils_wsoc_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	C130_script.xls	
incandmass_obs.txt	aerosol mass	Greg Kok	glkok@dropletmeasurement.com	C130_script.xls	
scatmass_obs.txt	aerosol mass	Greg Kok	glkok@dropletmeasurement.com	C130_script.xls	
apsint_total_number_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
cn_obs.txt	aerosol number	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
cncold_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
cnhot_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
incandnum_obs.txt	aerosol number	Greg Kok	glkok@dropletmeasurement.com	C130_script.xls	
intn_150c_dma_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intn_150c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intn_300c_dma_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intn_300c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intn_400c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
intn_tdma_obs.txt	aerosol number	Don Collins	dcollins@tamu.edu	C130_script.xls	
intn_unheated_dma_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intn_unheated_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsubmicron_150c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsubmicron_300c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsubmicron_400c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsubmicron_unheated_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsupermicron_150c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsupermicron_300c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsupermicron_400c_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intnsupermicron_unheated_opc_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
nccn_obs.txt	aerosol number	Greg Roberts	gcroberts@ucsd.edu	C130_script.xls	
scatnum_obs.txt	aerosol number	Greg Kok	glkok@dropletmeasurement.com	C130_script.xls	
ucn_obs.txt	aerosol number	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
ssa_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
submicron550nmscat_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total450nmscat_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total470nmabs_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total530nmabs_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total550nmscat_60s_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total550nmscat_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total660nmabs_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
total700nmscat_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
tsinephrh_obs.txt	aerosol radiative	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
apsinstrumentrh_obs.txt	aerosol rh	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
instrumentrh_opc_obs.txt	aerosol rh	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	involves aerosol supersaturation
ssc_obs.txt	aerosol rh	Greg Roberts	gcroberts@ucsd.edu	C130_script.xls	
apsint_total_volume_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
intv_150c_dma_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intv_150c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intv_300c_dma_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intv_300c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intv_400c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intv_tdma_obs.txt	aerosol volume	Don Collins	dcollins@tamu.edu	C130_script.xls	
intv_unheated_dma_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intv_unheated_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsubmicron_150c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsubmicron_300c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsubmicron_400c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsubmicron_unheated_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsupermicron_150c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsupermicron_300c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsupermicron_400c_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
intvsupermicron_unheated_opc_obs.txt	aerosol volume	Anthony Clarke	tclarke@soest.hawaii.edu	C130_script.xls	
ptrms_acetaldehyde_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_aceticacid_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_acetone_propanal_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_acetonitrile_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_benzene_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_c4_carbonyls_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_c6_carbonyls_mz83_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_c8_benzenes_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_c9_benzenes_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_hydroxyacetone_mz75_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_methanol_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	
ptrms_toluene_obs.txt	hydrocarbon	Karl Thomas	tomkarl@ucar.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
toga_1_1_1_trichloroethane_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_2_hexanone_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_2_pentanone_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_3_hexanone_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_3_pentanone_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_acetaldehyde_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_acetone_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_acetonitrile_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_benzene_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_butanal_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_butane_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_chloroform_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_dms_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_ethanol_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_ethylbenzene_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_hexanal_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_ibutane_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_ipentane_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_isoprene_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_mek_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_methanol_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_methylbromide_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_methylchloride_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_methylenechloride_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_mpxylene_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_mtbe_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_oxylene_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_pentanal_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
toga_pentane_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_propanal_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_tetrachloromethane_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
toga_toluene_obs.txt	hydrocarbon	Eric Apel	apel@ucar.edu	C130_script.xls	
uci_1_2_4_trimethylbenzene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_1_2_dichloroethane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_1_3_5_trimethylbenzene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_1_3_butadiene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_1_butene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_2_buono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_2_methylpentane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_2_penono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_3_ethyltoluene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_3_methyl_2_buono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_3_methylpentane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_3_penono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_4_ethyltoluene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_benzene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_c2cl4_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_c2hcl3_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ccl4_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_cfc11_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_cfc113_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_cfc114_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_cfc12_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ch2br2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ch2cl2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ch3br_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
uci_ch3cl_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ch3i_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_chbr2cl_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_chbr3_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_chbrcl2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_chcl3_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_cis2butene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_co_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_cs2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_dms_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ethane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ethene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ethylbenzene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ethylchloride_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ethyne_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_etono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_h1211_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_h1301_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_h2402_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_hcfc_141b_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_hcfc_142b_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_hcfc_22_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_hfc134a_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ibutane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ipentane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_iprono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ipropylbenzene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_isoprene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
uci_meono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_methane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_mxylene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_nbutane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_nheptane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_nhexane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_npentane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_nprono2_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_npropylbenzene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_ocs_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_oxylene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_propane_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_propene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_pxylene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_toluene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
uci_trans2butene_obs.txt	hydrocarbon	Donald Blake	drblake@uci.edu	C130_script.xls	
aircraft_mach_number_squared_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
aircraft_pitch_angle_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
aircraft_roll_angle_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
aircraft_true_airspeed_reference_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
aircraft_true_heading_angle_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
altp_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
ambient_water_vapor_pressure_reference_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
corrected_dynamic_pressure_reference_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
corrected_gps_altitude_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
flight_minute_cluster.traj_time_point_record_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
flight_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
geometric_radar_altitude_apn_232_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_ground_speed_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_ground_speed_vector_east_component_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_ground_speed_vector_north_component_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_track_angle_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
interior_cabin_static_pressure_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
latitude_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
longitude_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
mcma_municipalities_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
mcma_range_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
popo_box_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
popo_range_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
sza_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
t0_box_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
t0_range_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
t1_flt_leg_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
t1_range_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
t2_flt_leg_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
t2_range_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
tula_box_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
tula_range_mexrngmrg60_obs.txt	logistical	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
absolute_humidity_t_electric_top_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
dew_frost_point_temperature_fuselage_bottom_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
dew_frost_point_temperature_fuselage_top_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
dew_point_temperature_reference_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
dew_point_temperature_t_electric_bottom_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
dew_point_temperature_t_electric_top_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
equivalent_potential_temperature_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_corrected_wind_vector_east_component_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_corrected_wind_vector_north_component_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
gps_corrected_wind_vector_vertical_gust_component_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
mixing_ratio_t_electric_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
potential_temperature_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
pressure_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
relative_humidity_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
temperature_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
theta_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
total_temperature_reference_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
wind_direction_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
wind_speed_obs.txt	meteorology	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
j_c2h5cho_c2h5_hco_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch2o_h_hco_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch2o_h2_co_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3ch2ch2cho_hv_c2h4_ch2choh_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3ch2ch2cho_hv_c3h7_hco_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3ch2ono2_hv_products_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3cho_ch3_hco_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3cho_ch4_co_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3coch2ch3_hv_products_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3coch3_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3cocho_products_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ch3ono2_ch3o_no2_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
j_ch3ooh_ch3o_oh_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_chocho_hco_hco_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_chocho_products_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_h2o2_2oh_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_hno2_oh_no_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_hno3_oh_no2_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ho2no2_hv_ho2_no2_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_ho2no2_hv_oh_no3_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_n2o5_no3_no_o3p_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_n2o5_no3_no2_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_no2_no_o3p_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_o3_o2_o1d_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
j_pan_hv_products_obs.txt	photolysis	Richard Shetter	shetter@ucar.edu	C130_script.xls	
radiometric_sky_cloud_base_temperature_obs.txt	radiation	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
radiometric_surface_temperature_obs.txt	radiation	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
shortwave_irradiance_bottom_obs.txt	radiation	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
shortwave_irradiance_top_obs.txt	radiation	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
ultraviolet_irradiance_bottom_obs.txt	radiation	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
ultraviolet_irradiance_top_obs.txt	radiation	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
acetic_acid_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
apan_obs.txt	trace gas	Frank Flocke	ffl@ucar.edu	C130_script.xls	
aromatic_obs.txt	trace gas	Lynn Russell	lmrussell@ucsd.edu	C130_script.xls	
carbonyl_obs.txt	trace gas	Lynn Russell	lmrussell@ucsd.edu	C130_script.xls	
cit_h2o2_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
cit_hcn_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
cit_hno3_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
cit_paa_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
cit_so2_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
co_obs.txt	trace gas	Teresa Campos	campos@ucar.edu	C130_script.xls	
formic_acid_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
h2so4_obs.txt	trace gas	Lee Maudlin	mauldin@ucar.edu	C130_script.xls	
ho2_obs.txt	trace gas	Chris Cantrell	cantrell@ucar.edu	C130_script.xls	
ho2_ro2_obs.txt	trace gas	Chris Cantrell	cantrell@ucar.edu	C130_script.xls	
instrument_cit_h2o2_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
instrument_cit_hcn_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
mopn_obs.txt	trace gas	Frank Flocke	ffl@ucar.edu	C130_script.xls	
mpan_obs.txt	trace gas	Frank Flocke	ffl@ucar.edu	C130_script.xls	
msa_obs.txt	trace gas	Lee Maudlin	mauldin@ucar.edu	C130_script.xls	
ncar_dfg_ch2o_obs.txt	trace gas	Petter Weibring	weibring@ucar.edu	C130_script.xls	
no2_obs.txt	trace gas	Andrew Weinheimer	wein@ucar.edu	C130_script.xls	
noaa_so2_obs.txt	trace gas	John Holloway	john.s.holloway@noaa.gov	C130_script.xls	
noy_obs.txt	trace gas	Andrew Weinheimer	wein@ucar.edu	C130_script.xls	
o3_obs.txt	trace gas	Andrew Weinheimer	wein@ucar.edu	C130_script.xls	
o3column_obs.txt	trace gas	NCAR EOL	clyde.c.brown@nasa.gov	C130_script.xls	
oh_obs.txt	trace gas	Lee Maudlin	mauldin@ucar.edu	C130_script.xls	
organic_hydroxyl_obs.txt	trace gas	Lynn Russell	lmrussell@ucsd.edu	C130_script.xls	
pan_obs.txt	trace gas	Frank Flocke	ffl@ucar.edu	C130_script.xls	
pibn_obs.txt	trace gas	Frank Flocke	ffl@ucar.edu	C130_script.xls	
ppn_obs.txt	trace gas	Frank Flocke	ffl@ucar.edu	C130_script.xls	
propanoic_acid_obs.txt	trace gas	Paul Wennberg	wennberg@gps.caltech.edu	C130_script.xls	
saturated_aliphatic_obs.txt	trace gas	Lynn Russell	lmrussell@ucsd.edu	C130_script.xls	
unsaturated_aliphatic_obs.txt	trace gas	Lynn Russell	lmrussell@ucsd.edu	C130_script.xls	

Table 3.4. Files in Subdirectory MILAGRO/Obs/aircraft/dc8. Subdirectories exist for each flight and are named with the format mrg60_dc8_*2006*mmdd_*r*n, where *mm=month, dd*=day, *n*= revision number.

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
apsintatot_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_150c_dma_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_150c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_300c_dma_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_300c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_400c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_ldma_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_unheated_dma_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
inta_unheated_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasubmicron_150c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasubmicron_300c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasubmicron_400c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasubmicron_unheated_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasupermicron_150c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasupermicron_300c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasupermicron_400c_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intasupermicron_unheated_opc_obs.txt	aerosol area	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
apsintntot_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
cold_aerosol_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
hot_aerosol_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_150c_dma_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_150c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_300c_dma_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_300c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_400c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
intn_ldma_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_unheated_dma_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intn_unheated_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsubmicron_150c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsubmicron_300c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsubmicron_400c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsubmicron_unheated_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsupermicron_150c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsupermicron_300c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsupermicron_400c_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intnsupermicron_unheated_opc_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
ultrafine_aerosol_obs.txt	aerosol number	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
air_rha_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
bsp_amb_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
dryrrnephrh_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
drysub550nmscat_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
frh_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
frhsub_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
gamma_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
gammasub_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
ssa_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
submicron550nmscat_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
subrrnephrh_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
total450nmscat_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
total470nmabs_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
total530nmabs_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
total550nmscat_60s_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
total550nmscat_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
total660nmabs_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
total700nmscat_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
tsi_rh_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
tsinephrh_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
wetrrnephrh_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
wetsub550nmscat_obs.txt	aerosol radiative	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
apsrh_obs.txt	aerosol rh	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
instrumentrh_opc_obs.txt	instrument operation	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
apsintvtot_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_150c_dma_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_150c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_300c_dma_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_300c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_400c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_ldma_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_unheated_dma_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intv_unheated_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsubmicron_150c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsubmicron_300c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsubmicron_400c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsubmicron_unheated_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsupermicron_150c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsupermicron_300c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsupermicron_400c_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
intvsupermicron_unheated_opc_obs.txt	aerosol volume	Antony Clark	tclarke@soest.hawaii.edu	DC8_script.xls	
ch3ooh_uri_obs.txt	hydrocarbon	Brian Heikes	bheikes@gso.uri.edu	DC8_script.xls	
uri_h2o2_obs.txt	trace gas	Brian Heikes	bheikes@gso.uri.edu	DC8_script.xls	
uri_hcho_obs.txt	trace gas	Brian Heikes	bheikes@gso.uri.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
surface_area_density_cas_1.0_2.0_um_obs.txt	aerosol area	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
surface_area_density_cas_2.0_5.0_um_obs.txt	aerosol area	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
surface_area_density_cas_20_50_um_obs.txt	aerosol area	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
surface_area_density_cas_5.0_20_um_obs.txt	aerosol area	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
surface_area_density_cip_50_1550_um_obs.txt	aerosol area	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
number_concentration_cas_1.0_2.0_um_obs.txt	aerosol number	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
number_concentration_cas_2.0_5.0_um_obs.txt	aerosol number	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
number_concentration_cas_20_50_um_obs.txt	aerosol number	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
number_concentration_cas_5.0_20_um_obs.txt	aerosol number	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
number_concentration_cip_50_1550_um_obs.txt	aerosol number	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
volume_density_cas_1.0_2.0_um_obs.txt	aerosol volume	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
volume_density_cas_2.0_5.0_um_obs.txt	aerosol volume	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
volume_density_cas_20_50_um_obs.txt	aerosol volume	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
volume_density_cas_5.0_20_um_obs.txt	aerosol volume	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
volume_density_cip_50_1550_um_obs.txt	aerosol volume	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
liquid_water_content_obs.txt	meteorology	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
cloud_extinction_obs.txt	radiation	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
cloud_index_obs.txt	radiation	Bruce E. Anderson	b.e.anderson@larc.nasa.gov	DC8_script.xls	
c2o4_obs.txt	hydrocarbon	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
ncar_hcho_obs.txt	hydrocarbon	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
altp_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
altr_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
flight_minute_cluster_traj_time_point_record_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
flight_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
index_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
jday_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
local_sun_time_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
mrg60_dc8_20060304_r5_log.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
sza_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
potential_temperature_obs.txt	meteorology	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
pressure_obs.txt	meteorology	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
temperature_obs.txt	meteorology	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
clear_obs.txt	radiation	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
cloudy_obs.txt	radiation	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
n2o_obs.txt	trace gas	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
no2_unheated_obs.txt	trace gas	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
o3column_obs.txt	trace gas	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
usna_h2o2_obs.txt	trace gas	Daniel O'Sullivan	osulliva@usna.edu	DC8_script.xls	
mcma_municipalities_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
mcma_range_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
popo_box_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
popo_range_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
t0_box_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
t0_range_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
t1_flt_leg_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
t1_range_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
t2_flt_leg_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
t2_range_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
tula_box_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
tula_range_obs.txt	logistical	Danny McKenna	danny@ucar.edu	DC8_script.xls	
1_2_4_trimethylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
1_2_dichloroethane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
1_3_5_trimethylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
1_3_butadiene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
1_butene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
2_buono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
2_methylpentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
2_penono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
3_ethyltoluene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
3_methyl_2_buono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
3_methylpentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
3_penono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
4_ethyltoluene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
benzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
c2cl4_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
c2hcl3_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ccl4_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
cfc_11_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
cfc_113_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
cfc_114_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
cfc_12_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ch2br2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ch2cl2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ch3br_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ch3cl_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ch3i_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
chbr2cl_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
chbr3_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
chbrcl2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
chcl3_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
cis_2butene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
co_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
co2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
cs2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
dms_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ethane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ethene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ethylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ethylchloride_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ethyne_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
etono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
h_1211_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
h_1301_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
h_2402_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
hcfc_141b_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
hcfc_142b_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
hcfc_22_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
hfc_134a_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ibutane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ipentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
iprono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ipropylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
isoprene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
meono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
methane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
mxylene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
nbutane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
nheptane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
nhexane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
npentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
nprono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
npropylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ocs_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
oxylene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
propane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
propene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
pxylene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
toluene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
trans_2_butene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ucigc_co_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
ucigc_methane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	DC8_script.xls	
h2o_v_obs.txt	meteorology	Glenn Diskin	glenn.s.diskin@nasa.gov	DC8_script.xls	
hcl_obs.txt	hydrocarbon	Greg Huey	greg.huey@eas.gatech.edu	DC8_script.xls	
ho2no2_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	DC8_script.xls	
no_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	DC8_script.xls	
so2_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	DC8_script.xls	
acetaldehyde_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
acetone_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
acetonitrile_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
ethanol_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
hcn_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
mek_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
methanol_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
propanal_obs.txt	hydrocarbon	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
pan_obs.txt	trace gas	H. Singh	hsingh@mail.arc.nasa.gov	DC8_script.xls	
be_7_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
mc_ca_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_cl_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_h2so4_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_hno3_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_k_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_mg_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_na_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_nh4_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_no3_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
mc_so4_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
pb_210_obs.txt	aerosol composition	Jack Dibb	jack.dibb@unh.edu	DC8_script.xls	
altitude_gps_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
cabin_alt_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
drift_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
ground_speed_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
heading_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
indicated_air_speed_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
latitude_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
longitude_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
mach_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
mrg60_dc8_20060304_r5_loc.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
pitch_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
roll_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
sun_azimuth_aircraft_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
sun_azimuth_earth_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
sun_elev_aircraft_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
sun_elev_earth_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
track_angle_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
true_air_speed_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
utc_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
vertical_air_speed_obs.txt	logistical	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
dp_cryo_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
dp1011_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
rel_humidity_ice_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
relative_humidity_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
sat_vapor_pressure_h2o_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
sat_vapor_pressure_ice_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
temp_stat_calc_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
temp_total_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
vapor_pressure_h2o_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
vapor_pressure_ice_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
water_vapor_mixing_ratio_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
wind_direction_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
wind_speed_obs.txt	meteorology	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
j_no2_nadir_obs.txt	photolysis	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
j_no2_zenith_obs.txt	photolysis	John Barrick	j.d.barrick@larc.nasa.gov	DC8_script.xls	
o3_obs.txt	trace gas	Melody Avery	m.a.avery@larc.nasa.gov	DC8_script.xls	
j_c2h5cho_c2h5_hco_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch2o_h_hco_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch2o_h2_co_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3ch2ch2cho_hv_c2h4_ch2choh_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3ch2ch2cho_hv_c3h7_hco_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3ch2ono2_hv_products_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3cho_ch3_hco_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3cho_ch4_co_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3coch2ch3_hv_products_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
j_ch3coch3_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3cocho_products_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3ono2_ch3o_no2_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ch3ooh_ch3o_oh_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_chocho_hco_hco_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_chocho_products_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_h2o2_2oh_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_hno2_oh_no_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_hno3_oh_no2_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ho2no2_hv_ho2_no2_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_ho2no2_hv_oh_no3_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_n2o5_no3_no_o3p_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_n2o5_no3_no2_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_no2_no_o3p_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_o3_o2_o1d_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
j_pan_hv_products_obs.txt	photolysis	Rick Shetter	shetter@ucar.edu	DC8_script.xls	
tgm_obs.txt	trace gas	Robert Talbot	robert.talbot@unh.edu	DC8_script.xls	
ans_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	DC8_script.xls	
hno3_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	DC8_script.xls	
no2_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	DC8_script.xls	
pns_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	DC8_script.xls	
ho2_obs.txt	trace gas	William Brune	brune@ems.psu.edu	DC8_script.xls	
oh_obs.txt	trace gas	William Brune	brune@ems.psu.edu	DC8_script.xls	
haze_obs.txt	aerosol radiative	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
ir_surf_temp_obs.txt	meteorology	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
gtlif_no_obs.txt	trace gas	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	
npah_no2_total_580c_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	DC8_script.xls	
intermediate_obs.txt	logistical	Clyde Brown	clyde.c.brown@nasa.gov	DC8_script.xls	

Table 3.5. Files in Subdirectory MILAGRO/Obs/aircraft/dc8/lidar. Subdirectories exist for each flight and are named with the format dc8_*2006*mmdd_*r*n, where *mm=month, dd*=day, *n*= revision number.

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
aerosol_depolarization_588_nm_obs.txt	aerosol radiative	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	
aerosol_scattering_ratio_1064_nm_obs.txt	aerosol radiative	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	
aerosol_scattering_ratio_588_nm_obs.txt	aerosol radiative	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	
aerosol_wavelength_dependence_1064_nm_588_nm_obs.txt	aerosol radiative	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	
dc8_2006*mmdd*_r*n*_aerosol_depolarization_588_nm_locprof.txt	logistic	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	*mm*=month, *dd*=day, *n*=revision number
dc8_2006*mmdd*_r*n*_aerosol_scattering_ratio_1064_nm_locprof.txt	logistic	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	*mm*=month, *dd*=day, *n*=revision number
dc8_2006mmdd_r*n*_aerosol_scattering_ratio_588_nm_locprof.txt	logistic	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	*mm*=month, *dd*=day, *n*=revision number
dc8_2006*mmdd*_r*n*_aerosol_wavelength_dependence_1064_nm_588_nm_locprof.txt	logistic	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	*mm*=month, *dd*=day, *n*=revision number
dc8_2006*mmdd*_r*n*_o3_mixing_ratio_locprof.txt	logistic	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	*mm*=month, *dd*=day, *n*=revision number
o3_mixing_ratio_obs.txt	trace gas	Edward V. Browell	edward.v.browell@nasa.gov	DC8_lidar_script.xls	

Table 3.6. Files in subdirectory MILAGRO/Obs/aircraft/g1. Subdirectories exist for each flight and are named with the format g1_*2006*mmdd*f,* where *mm=month, dd*=day*, f*= flight (a or b).

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
06*mmddf*_10_log.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	*mm*=month,*dd*=day, *f*=flight (a or b)
06*mmddf*_10.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	*mm*=month,*dd*=day, *f*=flight (a or b)
altitude_obs.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_cl_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_m44_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_m57_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_nh4_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_no3_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_org_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
ams_so4_obs.txt	aerosol composition	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_standard_and_aerosol_script.xls	
blue_abs_obs.txt	aerosol radiative	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
blue_back_s_obs.txt	aerosol radiative	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
blue_tot_s_obs.txt	aerosol radiative	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
cas_4binwrf_bin*j*area_ins_obs.txt	aerosol area	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=3:4
cas_4binwrf_bin*j*area_wrf_obs.txt	aerosol area	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=3:4
cas_4binwrf_bin*j*number_obs.txt	aerosol number	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=3:4
cas_4binwrf_bin*j*volume_ins_obs.txt	aerosol volume	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=3:4
cas_4binwrf_bin*j*volume_wrf_obs.txt	aerosol volume	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=3:4
cas_8binwrf_bin*k*area_ins_obs.txt	aerosol area	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=5:8
cas_8binwrf_bin*k*area_wrf_obs.txt	aerosol area	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=5:8
cas_8binwrf_bin*k*number_obs.txt	aerosol number	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=5:8
cas_8binwrf_bin*k*volume_ins_obs.txt	aerosol volume	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=5:8

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
cas_8binwrf_bin*k*volume_wrf_obs.txt	aerosol volume	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=5:8
cas_ch_*ll*_obs.txt	aerosol number	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	*ll*=1:20
cas_tot_a_obs.txt	aerosol area	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	
cas_tot_n_obs.txt	aerosol number	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	
cas_tot_v_obs.txt	aerosol volume	Gunnar Senum	gsenum@bnl.gov	g1_pcasp_dma_cas_script.xls	
cip_tot_a_obs.txt	aerosol area	Gunnar Senum	gsenum@bnl.gov	g1_cip_script.xls	
cip_tot_n_obs.txt	aerosol number	Gunnar Senum	gsenum@bnl.gov	g1_cip_script.xls	
cip_tot_v_obs.txt	aerosol volume	Gunnar Senum	gsenum@bnl.gov	g1_cip_script.xls	
cl_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *j*=1:2
cl_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *k*=1:5
co_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
cpc_3010_obs.txt	aerosol number	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
cpc_3025_obs.txt	aerosol number	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
date_obs.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
dew_point_temperature_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
dma_4binwrf_bin1area_ins_obs.txt	aerosol size/area	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived
dma_4binwrf_bin1area_wrf_obs.txt	aerosol size/area	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived
dma_4binwrf_bin1number_obs.txt	aerosol size/number	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived
dma_4binwrf_bin1volume_ins_obs.txt	aerosol size/volume	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived
dma_4binwrf_bin1volume_wrf_obs.txt	aerosol size/volume	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived
dma_8binwrf_bin*k*area_ins_obs.txt	aerosol size/area	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=1:3
dma_8binwrf_bin*k*area_wrf_obs.txt	aerosol size/area	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=1:3
dma_8binwrf_bin*k*number_obs.txt	aerosol size/number	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=1:3
dma_8binwrf_bin*k*volume_ins_obs.txt	aerosol size/volume	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=1:3
dma_8binwrf_bin*k*volume_wrf_obs.txt	aerosol size/volume	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=1:3

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
dma_ch_*nn*_obs.txt	aerosol size/number	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	*nn*=1:20
dma_tot_a_obs.txt	aerosol area	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	
dma_tot_n_obs.txt	aerosol number	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	
dma_tot_v_obs.txt	aerosol volume	Jian Wang	jian@bnl.gov	g1_pcasp_dma_cas_script.xls	
flow_amb_obs.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	
g1_06*mmddf*_loc.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	*mm*=month,*dd*=day, *f*=flight (a or b)
green_abs_obs.txt	aerosol radiative	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
green_back_s_obs.txt	aerosol radiative	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
green_tot_s_obs.txt	aerosol radiative	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
h2o2_obs.txt	trace gas	Judy Weinstein-Lloyd	lloydj@oldwestbury.edu	g1_standard_and_aerosol_script.xls	
hc_sample_obs.txt	logistical	Jochen Rudolph	rudolph@yorku.ca	g1_standard_and_aerosol_script.xls	
hmhp_obs.txt	trace gas	Judy Weinstein-Lloyd	lloydj@oldwestbury.edu	g1_standard_and_aerosol_script.xls	
lat_obs.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
long_obs.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
lwc_obs.txt	meteorology	Gunnar Senum	gsenum@bnl.gov	g1_standard_and_aerosol_script.xls	
m44_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived
m44_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived
m57_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *j*=1:2
m57_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *k*=1:5
mixing_ratio_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
nh4_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *j*=1:2
nh4_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *k*=1:5
no2_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
no3_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *j*=1:2
no3_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *k*=1:5
no_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
nox_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
noy_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
o3_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
org_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *j*=1:2
org_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *k*=1:5
pcasp_4binwrf_bin*j*area_ins_obs.txt	aerosol size/area	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=2:3. Suspicious 0.00 values in all channels
pcasp_4binwrf_bin*j*area_wrf_obs.txt	aerosol size/area	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=2:3. Suspicious 0.00 values in all channels
pcasp_4binwrf_bin*j*number_obs.txt	aerosol size/number	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=2:3. Suspicious 0.00 values in all channels
pcasp_4binwrf_bin*j*volume_ins_obs.txt	aerosol size/volume	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=2:3. Suspicious 0.00 values in all channels
pcasp_4binwrf_bin*j*volume_wrf_obs.txt	aerosol size/volume	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *j*=2:3. Suspicious 0.00 values in all channels
pcasp_8binwrf_bin*k*area_ins_obs.txt	aerosol size/area	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=2:6. Suspicious 0.00 values in all channels
pcasp_8binwrf_bin*k*area_wrf_obs.txt	aerosol size/area	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=2:6. Suspicious 0.00 values in all channels
pcasp_8binwrf_bin*k*number_obs.txt	aerosol size/number	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=2:6. Suspicious 0.00 values in all channels
pcasp_8binwrf_bin*k*volume_ins_obs.txt	aerosol size/volume	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=2:6. Suspicious 0.00 values in all channels
pcasp_8binwrf_bin*k*volume_wrf_obs.txt	aerosol size/volume	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	derived; *k*=2:6. Suspicious 0.00 values in all channels
pcasp_ch_*nn*_obs.txt	aerosol size/number	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	*nn*=1:30
pcasp_tot_a_obs.txt	aerosol size/area	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	
pcasp_tot_n_obs.txt	aerosol size/number	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	
pcasp_tot_v_obs.txt	aerosol size/volume	John Hubbe	john.hubbe@pnl.gov	g1_pcasp_dma_cas_script.xls	
pils_cl_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
pils_k_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	
pils_mg_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	
pils_na_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	
pils_nh4_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	
pils_no3_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	
pils_so4_obs.txt	aerosol composition	Yin-Nan Lee	ynlee@bnl.gov	g1_standard_and_aerosol_script.xls	
potential_temperature_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
pressure_altitude_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
pressure_obs.txt	meteorology	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
ptof_cl_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptof_m44_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptof_m57_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptof_nh4_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptof_no3_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptof_org_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptof_so4_*n*_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	*n*=0:39
ptrms_101_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_107_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_111_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_113_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_121_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_137_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_143_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_33_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_42_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_43_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_45_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
ptrms_59_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_61_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_71_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_73_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_75_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_79_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_83_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_87_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_93_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	
ptrms_estimated_isoprene_obs.txt	trace gas	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ptrms_voc_script.xls	derived: estimated isoprene equal to 0.5 * PTRMS_137
red_abs_obs.txt	aerosol radiative	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
red_back_s_obs.txt	aerosol radiative	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
red_tot_s_obs.txt	aerosol radiative	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
relative_humidity_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
so2_obs.txt	trace gas	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
so4_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *j*=1:2
so4_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	derived; *k*=1:5
ssa_obs.txt	aerosol radiative	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	Includes values outside range 0<ssa<1
temperature_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
time_obs.txt	logistical	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
total_cl_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	
total_m44_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	
total_m57_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	
total_nh4_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	
total_no3_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
total_org_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	
total_so4_obs.txt	aerosol size/composition/mass	Lizabeth Alexander	lizabeth.alexander@pnl.gov	g1_ams_tof_script.xls	
turbulence_dissipation_obs.txt	meteorology	Gunnar Senum	gsenum@bnl.gov	g1_standard_and_aerosol_script.xls	
uv_gnd_obs.txt	meteorology	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
uv_sky_obs.txt	meteorology	John Hubbe	john.hubbe@pnl.gov	g1_standard_and_aerosol_script.xls	
wind_direction_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	
wind_speed_obs.txt	meteorology	Stephen Springston	srs@bnl.gov	g1_standard_and_aerosol_script.xls	

Table 3.7. Files in Subdirectory MILAGRO/Obs/aircraft/j31. Subdirectories exist for each flight and are named with the format j31__2006mmdd_rn(_l), where mm=month, dd=day, n= revision number, l=optional comment id.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
aerosol_optical_depth_1019_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_1241_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_1558_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_2139_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_354_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_380_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_453_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_499_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_519_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_604_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_675_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_778_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
aerosol_optical_depth_865_nm_obs.txt	aerosol radiative	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_aerosol_optical_depth.xls	
downwelling_irradiance_1052_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_1201_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_1604_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_1650_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_2101_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_380_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_506_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
downwelling_irradiance_762_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_940_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_broadband_350_2200__nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
downwelling_irradiance_broadband_350_700__nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
j31_2006*mmdd*_r*n*(_*l*)_loc.txt	logistic	Rose Dominguez	rdominguez@mail.arc.nasa.gov	j31_script_atmospheric.xls	*mm*=month, *dd*=day, *n*= revision number, *i*=optional comment id
o3_column_content_obs.txt	trace gas	Philip Russell, Jens Redemann	jredemann@mail.arc.nasa.gov	j31_script_atmospheric.xls	
pressure_obs.txt	meteorology	Warren Gore	Warren.Gore@nasa.gov	j31_script_atmospheric.xls	
relative_humidity_obs.txt	meteorology	Warren Gore	Warren.Gore@nasa.gov	j31_script_atmospheric.xls	
temperature_obs.txt	meteorology	Warren Gore	Warren.Gore@nasa.gov	j31_script_atmospheric.xls	
upwelling_irradiance_1055_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_1201_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_1605_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_1650_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_2101_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_380_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_506_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_762_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_939_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	
upwelling_irradiance_broadband_350_2200_nm_obs.txt	radiation	Peter Pilewskie	Peter.Pilewskie@lasp.colorado.edu	j31_script_irradiance.xls	

Table 3.8. Files in Subdirectory MILAGRO/Obs/aircraft/twinotter. Subdirectories exist for each flight and are named with the format twin_otter_2006_*mmddf,* where *mm*=month*, dd*=day*, f*=flight (a or b).

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
co2_obs.txt	trace gas	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
forestservice_backscatter_obs.txt	aerosol radiative	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
forestservice_co2_obs.txt	trace gas	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
forestservice_co_obs.txt	trace gas	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
forestservice_water_vapor_mixing_ratio_obs.txt	meteorology	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
pm1_obs.txt	aerosol mass	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
pressure_obs.txt	meteorology	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
twin_otter_2006*mmddf*_loc.txt	logistical	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	
water_vapor_mixing_ratio_obs.txt	meteorology	Robert Yokelson	bob.yokelson@umontana.edu	twin_otter_script.xls	*mm*=month, *dd*=day, *f*=flight (a or b)

Table 3.9. Files in Subdirectory MILAGRO/Obs/profile/cmet.

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
cmet_06*mmdd*_loc.txt	meteorology	Paul Voss	pvoss@email.smith.edu		*mmdd*=0309, 0311, 0312, 0318, 0319, 0322
cmet_06*mmdd*_pressure_obs.txt	meteorology	Paul Voss	pvoss@email.smith.edu		
cmet_06*mmdd*_relative_humidity_obs.txt	meteorology	Paul Voss	pvoss@email.smith.edu		
cmet_06*mmdd*_temperature_obs.txt	meteorology	Paul Voss	pvoss@email.smith.edu		
cmet_06*mmdd*_wind_direction.txt	meteorology	Paul Voss	pvoss@email.smith.edu		
cmet_06*mmdd*_wind_speed.txt	meteorology	Paul Voss	pvoss@email.smith.edu		

Table 3.10. Files in Subdirectory MILAGRO/Obs/profile/operational.

Filename	**Parameter Type**	**Principal Investigator (PI)**	**PI email**	**Processing Script**	**Comments**
*xxx*_sonde_dewpointtemperature_obs.txt	meteorology	FSL	N/A	soundings_fsl.xls	*xxx* = aca, gwa, lap, mcv, mex, mid, mty, mzt, ver
*xxx*_sonde_pressure_obs.txt	meteorology	FSL	N/A	soundings_fsl.xls	*xxx* = aca, gwa, lap, mcv, mex, mid, mty, mzt, ver
*xxx*_sonde_relative_humidity_obs.txt	meteorology	FSL	N/A	soundings_fsl.xls	*xxx* = aca, mex, ver
*xxx*_sonde_temperature_obs.txt	meteorology	FSL	N/A	soundings_fsl.xls	*xxx* = aca, gwa, lap, mcv, mex, mid, mty, mzt, ver
*xxx*_sonde_wind_direction_obs.txt	meteorology	FSL	N/A	soundings_fsl.xls	*xxx* = aca, gwa, lap, mcv, mex, mid, mty, mzt, ver
*xxx*_sonde_wind_speed_obs.txt	meteorology	FSL	N/A	soundings_fsl.xls	*xxx* = aca, gwa, lap, mcv, mex, mid, mty, mzt, ver

Table 3.11. Files in Subdirectory MILAGRO/Obs/profile/other.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
houston_morris_sonde_o3_obs.txt	trace gas	Gary Morris	gary.morris@valpo.edu	Ozone_Sonde_script.xls	
houston_morris_sonde_pressure_obs.txt	meteorology	Gary Morris	gary.morris@valpo.edu	Ozone_Sonde_script.xls	
houston_morris_sonde_relative_humidity_obs.txt	meteorology	Gary Morris	gary.morris@valpo.edu	Ozone_Sonde_script.xls	
houston_morris_sonde_temperature_obs.txt	meteorology	Gary Morris	gary.morris@valpo.edu	Ozone_Sonde_script.xls	
houston_morris_sonde_wind_direction_obs.txt	meteorology	Gary Morris	gary.morris@valpo.edu	Ozone_Sonde_script.xls	
houston_morris_sonde_wind_speed_obs.txt	meteorology	Gary Morris	gary.morris@valpo.edu	Ozone_Sonde_script.xls	
ver_profiler_wind_direction_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	profiler_script.xls	
ver_profiler_wind_speed_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	profiler_script.xls	
ver_profiler_w_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	profiler_script.xls	

Table 3.12. Files in Subdirectory MILAGRO/Obs/profile/supersites.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t0_profiler_wind_direction_obs.txt	meteorology	Kevin Knupp	Kevin@nsst.uah.edu	t0_t1_t2_profiler_script.xls	
t0_profiler_wind_speed_obs.txt	meteorology	Kevin Knupp	Kevin@nsst.uah.edu	t0_t1_t2_profiler_script.xls	
t0_profiler_w_obs.txt	meteorology	Kevin Knupp	Kevin@nsst.uah.edu	t0_t1_t2_profiler_script.xls	
t1_guenther_balloon_o3_obs.txt	trace gas	Alex Guenther	guenther@ucar.edu	guenther_balloon_script.xls	
t1_lidar_mpl_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_lidar_script.xls	
t1_profiler_wind_direction_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t0_t1_t2_profiler_script.xls	
t1_profiler_wind_speed_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t0_t1_t2_profiler_script.xls	
t1_profiler_w_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t0_t1_t2_profiler_script.xls	
t1_sonde_mixing_ratio_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_sonde_potentialtemperature_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_sonde_pressure_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_sonde_relative_humidity_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_sonde_temperature_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_sonde_wind_direction_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_sonde_wind_speed_obs.txt	meteorology	Richard Coulter	rlcoulter@anl.gov	t1_t2_soundings_script.xls	
t1_thompson_sonde_o3_obs.txt	trace gas	Anne Thompson	anne@met.psu.edu	Ozone_Sonde_script.xls	
t1_thompson_sonde_pressure_obs.txt	meteorology	Anne Thompson	anne@met.psu.edu	Ozone_Sonde_script.xls	
t1_thompson_sonde_relative_humidity_obs.txt	meteorology	Anne Thompson	anne@met.psu.edu	Ozone_Sonde_script.xls	
t1_thompson_sonde_temperature_obs.txt	meteorology	Anne Thompson	anne@met.psu.edu	Ozone_Sonde_script.xls	
t2_profiler_wind_direction_obs.txt	meteorology	Christopher Doran	Chris.Doran@pnl.gov	t0_t1_t2_profiler_script.xls	
t2_profiler_wind_speed_obs.txt	meteorology	Christopher Doran	Chris.Doran@pnl.gov	t0_t1_t2_profiler_script.xls	
t2_profiler_w_obsprof.txt	meteorology	Christopher Doran	Chris.Doran@pnl.gov	t0_t1_t2_profiler_script.xls	
t2_sonde_dewpointtemperature_obs.txt	meteorology	William J. Shaw	will.shaw@pnl.gov	t1_t2_soundings_script.xls	
t2_sonde_mixing_ratio_obs.txt	meteorology	William J. Shaw	will.shaw@pnl.gov	t1_t2_soundings_script.xls	
t2_sonde_pressure_obs.txt	meteorology	William J. Shaw	will.shaw@pnl.gov	t1_t2_soundings_script.xls	
t2_sonde_relative_humidity_obs.txt	meteorology	William J. Shaw	will.shaw@pnl.gov	t1_t2_soundings_script.xls	
t2_sonde_temperature_obs.txt	meteorology	William J. Shaw	will.shaw@pnl.gov	t1_t2_soundings_script.xls	

Table 3.13. Files in Subdirectory MILAGRO/Obs/surface/mobile/.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
mobile_loc.txt	logistical	N/A	N/A		
xxx_m4_ams_cl_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ams_nh4_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ams_no3_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ams_org_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ams_so4_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ams_total_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_atm_relative_humidity_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_atm_uv_radiation_obs.txt	radiation	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_dc2000ce_obs.txt	aerosol area	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_li6262_a_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_li6262_b_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_li820_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_maap_bc_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_no_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa. Many ptp values suspiciously high.
xxx_m4_noy_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pas_2000_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pas2000ce_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_babs_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_bc_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_bsca_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_bssa_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_noise_obs.txt	instrument operation	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_pressure_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
xxx_m4_paslanl_relative_humidity_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_paslanl_temperature_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pmf_bboa_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pmf_hoac_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pmf_ooa_1_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pmf_ooa_2_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_pressure_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptr_benzene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_acetaldehyde_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_acetone_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_c3benzene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_ch3cn_cor_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_methanol_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_toluene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_ptrms_xylene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_qcl_co_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa pemex values 3-26 0.35UTC thru 0.73UTC and 3-27 17.42 UTC suspiciously high. Same for sa 3-23 2.75UTC thru 2.78 UTC and 3-25 18.78 thru end of file.
xxx_m4_qcl_hcho_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_qcl_hno3_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_qcl_nh3_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_qcl_no2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_total_cpc_obs.txt	aerosol number	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa
xxx_m4_tsi_dustraka_pm25_obs.txt	aerosol number	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa. All values appear suspiciously low.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
					Recommend not using.
xxx_m4_tsi_dustrakb_pm25_obs.txt	aerosol mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	xxx = ped, pemex, ptp, sa All values appear suspiciously low. Recommend not using

Table 3.14. Files in Subdirectory MILAGRO/Obs/surface/other.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
xxx_smn_precipitation_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap, jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin, stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat.
xxx_smn_pressure_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap, jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin, stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat
xxx_smn_relative_humidity_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap, jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin, stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat
xxx_smn_solar_radiation_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap,

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
					jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin, stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat. Citla values are suspiciously low. Mateh file has suspicious negative values and isolated 0.00 values surrounded by missing data.
xxx_smn_temperature_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap, jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin, stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat. Mateh file has suspicious isolated values of 285.95 at 14.50UTC first 16 days,
xxx_smn_wind_direction_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap, jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin, stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat
xxx_smn_wind_speed_obs.txt	meteorology	SMN	N/A	SMN_script.xls	xxx = agust, alamo, altam, alvar, angam, apatx, atlac, bahia, basas, cabos, calak, calvi, campe, catav, cdale, cdcon, cddel, cdval, celes, cemca, centr, cerro, chapa, chetu, china, chini, citla, cozum, escar, escna, guach, gusta, huama, hueju, huimi, igual, insti, izuca, jalap, jimen, jocot, larum, lasve, losco, magua, matam, mateh, merid, mexic, nevad, nochi, pachu, palen, pinot, psaab, psael, psaem, psala, psama, riola, rioto, sanfe, siank, smn, squin,

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
					stace, staro, tanta, tepoz, tezon, tizap, tuxpa, univt, uriqu, yecor, zacat. Mateh file has value of 2006 for some wind speed records.
xxx_pembu_dew_point_temperature_obs.txt	meteorology	Pembu	N/A	Pembu_script.xls	xxx = ccha, cchn2, cchn, ccho, cchs, cchv, enp1, enp2, enp3, enp4, enp5, enp6, enp7
xxx_pembu_pressure_obs.txt	meteorology	Pembu	N/A	Pembu_script.xls	xxx = ccha, cchn2, cchn, ccho, cchs, cchv, enp1, enp2, enp3, enp4, enp5, enp6, enp7
xxx_pembu_relative_humidity_obs.txt	meteorology	Pembu	N/A	Pembu_script.xls	xxx = ccha, cchn2, cchn, ccho, cchs, cchv, enp1, enp2, enp3, enp4, enp5, enp6, enp7. Enp2 has suspicious periods of unchanging RH (3-6 thru 3-15; 3-22 through 3-24; 3-28). Enp3 has suspicious periods of unchanging RH (3-7 through 3-8)
xxx_pembu_solar_radiation_obs.txt	meteorology	Pembu	N/A	Pembu_script.xls	xxx = ccha, cchn2, cchn, ccho, cchs, cchv, enp1, enp2, enp3, enp4, enp5, enp6, enp7
xxx_pembu_temperature_obs.txt	meteorology	Pembu	N/A	Pembu_script.xls	xxx = ccha, cchn2, cchn, ccho, cchs, cchv, enp1, enp2, enp3, enp4, enp5, enp6, enp7
xxx_pembu_wind_speed_obs.txt	meteorology	Pembu	N/A	Pembu_script.xls	xxx = ccha, cchn2, cchn, ccho, cchs, cchv, enp1, enp2, enp3, enp4, enp5, enp6, enp7
cenica_henry_precipitation_obs.txt	meteorology	Henry Wöhrnschimmel	henrywo@ine.gob.mx	MipaAlta_script.xls	
cenica_henry_pressure_obs.txt	meteorology	Henry Wöhrnschimmel	henrywo@ine.gob.mx	MipaAlta_script.xls	
cenica_henry_relative_humidity_obs.txt	meteorology	Henry Wöhrnschimmel	henrywo@ine.gob.mx	MipaAlta_script.xls	
cenica_henry_temperature_obs.txt	meteorology	Henry Wöhrnschimmel	henrywo@ine.gob.mx	MipaAlta_script.xls	
cenica_henry_wind_direction_obs.txt	meteorology	Henry Wöhrnschimmel	henrywo@ine.gob.mx	MipaAlta_script.xls	
cenica_henry_wind_speed_obs.txt	meteorology	Henry Wöhrnschimmel	henrywo@ine.gob.mx	MipaAlta_script.xls	
other_loc.txt	logistical	N/A	N/A	Ozone_Sonde_script.xls	
paso_darrel_bc_obs.txt	aerosol composition	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_cl_obs.txt	aerosol composition	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_co_obs.txt	trace gas	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
paso_darrel_dew_point_temperature_obs.txt	meteorology	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_nh4_obs.txt	aerosol composition	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_no3_obs.txt	aerosol composition	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_pressure_obs.txt	meteorology	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_relative_humidity_obs.txt	meteorology	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_so2_obs.txt	trace gas	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_so4_obs.txt	aerosol composition	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_temperature_obs.txt	meteorology	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_total_org_obs.txt	aerosol composition	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_wind_direction_obs.txt	meteorology	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
paso_darrel_wind_speed_obs.txt	meteorology	Darrel Baumgardner	Darrel.baumgardner@gmail.com	Paso_script.xls	
*yyy*_aeronet_340_440_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	*yyy*= tamihua, tampico
*yyy*_aeronet_380_500_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_440_675_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_440_870_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_500_870_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot1020_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot1640_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot340_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot380_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot412_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot440_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
*yyy*_aeronet_aot443_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot490_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot500_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot531_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot532_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot551_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot555_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot667_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot675_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_aot870_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
*yyy*_aeronet_solar_zenith_angle_obs.txt	meteorology	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
tenangodelaire_junkerman_hcho_obs.txt	trace gas	Wolfgang Junkermann	wolfgang.junkermann@imk.fzk.de	Junkerman_HCHO_script.xls	
tenangodelaire_rainier_hcho_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Rainier_script.xls	
tenangodelaire_ruiz_co_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	Occasional suspicious values of 0.00 inconsistent with magnitude of temporally surrounding CO measurements.
tenangodelaire_ruiz_no_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	Occasional suspicious values of 0.00 and 0.40 inconsistent with magnitude of temporally surrounding NO measurements.
tenangodelaire_ruiz_nox_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	Occasional suspicious values of 0.00 inconsistent with magnitude of temporally surrounding NOx measurements.
tenangodelaire_ruiz_noy_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	Occasional suspicious values of 0.00 inconsistent with magnitude of temporally surrounding NOy measurements.
tenangodelaire_ruiz_o3_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tenangodelaire_ruiz_pressure_obs.txt	meteorology	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tenangodelaire_ruiz_relative_humidity_obs.txt	meteorology	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
tenangodelaire_ruiz_so2_obs.txt	trace gas	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	Occasional suspicious values of 0.00 inconsistent with magnitude of temporally surrounding SO2 measurements.
tenangodelaire_ruiz_spectral_downwelling_solar_hemispheric_irradiance_obs.txt	radiation	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tenangodelaire_ruiz_temperature_obs.txt	meteorology	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tenangodelaire_ruiz_uv_downwelling_obs.txt	radiation	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tenangodelaire_ruiz_wind_direction_obs.txt	meteorology	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz Suarez_script.xls	
tenangodelaire_ruiz_wind_direction_sigma_theta_obs.txt	meteorology	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tenangodelaire_ruiz_wind_speed_obs.txt	meteorology	Dr. Luis Gerardo Ruiz-Suarez	ruizs@servidor.unam.mx	Tenangodelaire_Ruiz_Suarez_script.xls	
tm1_junkerman_hcho_obs.txt	trace gas	Wolfgang Junkermann	wolfgang.junkermann@imk.fzk.de	Junkerman_HCHO_script.xls	
*zzz*_mit_aot500_obs.txt	aerosol radiative	Almeida Castanho	castanho@mit.edu	sunphotometer_mit_script.xls	*zzz*= corena, hidalgo, techmont, uami, unam

Table 3.15. Files in Subdirectory MILAGRO/Obs/surface/rama.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
*xxx*_co_obs.txt	trace gas	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_no2_obs.txt	trace gas	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_nox_obs.txt	trace gas	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_o3_obs.txt	trace gas	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_pm10_obs.txt	aerosol mass	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_pm25_obs.txt	aerosol mass	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_relative_humidity_obs.txt	meteorology	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_so2_obs.txt	trace gas	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_temperature_obs.txt	meteorology	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_wind_direction_obs.txt	meteorology	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
*xxx*_wind_direction_obs.txt	meteorology	N/A	N/A	rama_script.xls	*xxx* = ara, ati, azc, bju, cam, ces, cha, coy, cua, cui, eac, han, ibm, lag, lla, lpr, lvi, mer, min, net, ped, per, pla, sag, sja, sur, tac, tah, tax, tla, tli, tpn, uiz, val, vif, xal
rama_loc.txt	logistical	N/A	N/A		

Table 3.16. Files in Subdirectory MILAGRO/Obs/surface/supersites.

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
supersites_loc.txt	logistical	N/A	N/A		
t0_aeronet_340_440_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_380_500_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_440_675_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_440_870_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_500_870_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot1020_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot1640_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot340_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot380_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot412_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot440_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot443_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot490_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot500_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot531_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot532_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot551_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot555_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot667_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot675_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_aot870_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_aeronet_solar_zenith_angle_obs.txt	meteorology	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t0_blake_2_buono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_benzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_c2cl4_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_cfc11_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t0_blake_cfc113_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_cfc12_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_chcl3_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_co_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_ethane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_ethene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_ethylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_ethyne_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_etono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_h1211_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_ibutane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_ipentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_iprono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_meono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_methane_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_nbutane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_nheptane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_nhexane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_npentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_nprono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_oxylene_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_propane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_propene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_blake_toulene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t0_gaffney_blackcarbon520nm_obs.txt	aerosol composition	Nancy Marley	namarley@ualr.edu	Gaffney_script.xls	
t0_gaffney_blackcarbon590nm_obs.txt	aerosol composition	Nancy Marley	namarley@ualr.edu	Gaffney_script.xls	
t0_jimenez_ams_bboa_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_jimenez_ams_cl_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t0_jimenez_ams_hoa_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_jimenez_ams_nh4_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_jimenez_ams_no3_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_jimenez_ams_ooa_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_jimenez_ams_org_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_jimenez_ams_so4_obs.txt	aerosol composition	Allison C. Aiken	allison.aiken@colorado.edu	t0_Jimenez_script.xls	
t0_junkerman_hcho_obs.txt	trace gas	Wolfgang Junkermann	wolfgang.junkermann@imk.fzk.de	Junkerman_HCHO_script.xls	
t0_m4_ams_cl_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ams_nh4_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ams_no3_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ams_org_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ams_so4_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ams_total_obs.txt	aerosol size/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_atm_uv_radiation_obs.txt	radiation	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_dc2000ce_obs.txt	aerosol area	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_li6262_a_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_li6262_b_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_li820_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_maap_bc_obs.txt	aerosol mass/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_no_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_noy_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pas_2000_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pas2000ce_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_babs_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_bc_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_bsca_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t0_m4_paslanl_bssa_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_noise_obs.txt	instrument operation	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_pressure_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_relative_humidity_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_paslanl_temperature_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pmf_bboa_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pmf_hoac_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pmf_ooa_1_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pmf_ooa_2_obs.txt	aerosol size/composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_pressure_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_acetaldehyde_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_acetone_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_benzene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_c3benzene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_ch3cn_cor_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_methanol_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_toluene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_ptrms_xylene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_qcl_co_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	Values >10000 suspicious
t0_m4_qcl_hcho_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_qcl_hno3_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_qcl_nh3_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_qcl_no2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_relative_humidity_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_total_cpc_obs.txt	aerosol number	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t0_m4_tsi_dustraka_pm25_obs.txt	aerosol size/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	All values appear suspiciously

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
					low. Recommend not using
t0_m4_tsi_dustrakb_pm25_obs.txt	aerosol size/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	All values appear suspiciously low. Recommend not using.
t0_mit_aot500_obs.txt	aerosol radiative	Almeida Castanho	castanho@mit.edu	sunphotometer_mit_script.xls	
t0_mugica_acenaphtene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_acenaphthylene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_benzo_a_anthracene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_benzo_a_pyrene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_benzo_ghi_perylene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_cadmium_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_chromium_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_chrysene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_cobalt_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_copper_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_dibenz_ah_anthracene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_fluoranthene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_fluorene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_indeno_123_cd_pyrene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_iron_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_lead_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t0_mugica_manganese_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_naphtalene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_nickel_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_phenantrene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_pm25_obs.txt	aerosol size/mass	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_pyrene_obs.txt	hydrocarbon	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_titanium_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_mugica_vanadium_obs.txt	aerosol size/composition	Dra. Violeta Mugica Alvarez	vma@correo.azc.uam.mx	t0_Mugica_PM_script.xls	
t0_ruiz_hcho_obs.txt	trace gas	Wolfgang Junkermann	wolfgang.junkermann@imk.fzk.de	Junkerman_HCHO_script.xls	
t0_rwp_mixing_height_obs.txt	meteorology			rwp_mpl_pbl_script.xls	
t0_schauer_ec_obs.txt	aerosol composition	James Schauer	jschauer@wisc.edu	schauer_script.xls	
t0_schauer_oc_obs.txt	aerosol composition	James Schauer	jschauer@wisc.edu	schauer_script.xls	
t0_schauer_oc_pom_obs.txt	aerosol composition	James Schauer	jschauer@wisc.edu	schauer_script.xls	derived; pom=oc*1.4
t0_stevens_ho2_obs.txt	trace gas	Dr. Sebastien Dusanter	sdusante@indiana.edu	t0_Stevens_script.xls	
t0_stevens_oh_obs.txt	trace gas	Dr. Sebastien Dusanter	sdusante@indiana.edu	t0_Stevens_script.xls	
t0_wang_dma_4binwrf_bin*j*number_obs.txt	aerosol size/number	Jian Wang	jian@bnl.gov	t0_Wang_DMA_script.xls	derived; *j*=1:2
t0_wang_dma_8binwrf_bin*k*number_obs.txt	aerosol size/number	Jian Wang	jian@bnl.gov	t0_Wang_DMA_script.xls	derived; *k*=1:4
t0_wang_dma_ch_*nn*_obs.txt	aerosol size/number	Jian Wang	jian@bnl.gov	t0_Wang_DMA_script.xls	*nn*=1:29
t0_wang_dma_instru_relative_humidity_obs.txt	instrument operation	Jian Wang	jian@bnl.gov	t0_Wang_DMA_script.xls	
t0_wang_dma_instru_temperature_obs.txt	instrument operation	Jian Wang	jian@bnl.gov	t0_Wang_DMA_script.xls	
t0_zhang_hno3_obs.txt	trace gas	Dr. Renyi Zhang	zhang@ariel.met.tamu.edu	t0_zhang_hno3_script.xls	
t1_aeronet_340_440_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_380_500_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_440_675_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_aeronet_440_870_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_500_870_angstrom_obs.txt	radiation	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot1020_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot1640_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot340_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot380_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot412_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot440_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot443_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot490_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot500_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot531_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot532_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot551_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot555_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot667_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot675_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_aot870_obs.txt	aerosol radiative	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_aeronet_solar_zenith_angle_obs.txt	meteorology	Brent Holben	brent@aeronet.gsfc.nasa.gov	aeronet_script.xls	
t1_ams_cl_*nn*_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	*nn*=0:39
t1_ams_cl_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	
t1_ams_nh4_*nn*_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	*nn*=0:39
t1_ams_nh4_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	
t1_ams_no3_*nn*_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	*nn*=0:39

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_ams_no3_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	
t1_ams_org_*nn*_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	*nn*=0:39
t1_ams_org_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	
t1_ams_so4_*nn*_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	*nn*=0:39
t1_ams_so4_obs.txt	aerosol size/composition/mass	Liz Alexander	lizabeth.alexander@pnl.gov	t1_ams_script.xls	
t1_barnard_aot500_obs.txt	aerosol radiative	James Barnard	james.barnard@pnl.gov	outputBroadband_v2_barnard.m	PI indicates data between 3/17 to 3/23 inclusive and 3/28 prior to 1640 UTC suspicious and should not be used. PI also indicates probable cloud contamination for values > 0.5
t1_barnard_total_downwelling_broadband_rad_obs.txt	radiation	James Barnard	james.barnard@pnl.gov	outputBroadband_v2_barnard.m	
t1_blake_2_buono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_benzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_c2cl4_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_cfc11_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_cfc113_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_cfc12_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_ch4_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_chcl3_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_co_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_blake_ethane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_ethene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_ethylbenzene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_ethyne_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_etono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_h1211_obs.txt	trace gas	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_ibutane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_ipentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_iprono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_meono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_nbutane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_nheptane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_nhexane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_npentane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_nprono2_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_oxylene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_propane_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_propene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_blake_toluene_obs.txt	hydrocarbon	Donald R. Blake	drblake@uci.edu	t0_t1_blake_script.xls	
t1_castro_broadband_shortwave_downwelling_diffuse_hemispheric_irradiance_obs.txt	radiation	Dr. Telma Castro	telma@servidor.unam.mx	t1_Castro_script.xls	
t1_castro_broadband_shortwave_downwelling_direct_normal_irradiance_obs.txt	radiation	Dr. Telma Castro	telma@servidor.unam.mx	t1_Castro_script.xls	
t1_castro_broadband_shortwave_downwelling_global_hemispheric_irradiance_obs.txt	radiation	Dr. Telma Castro	telma@servidor.unam.mx	t1_Castro_script.xls	
t1_cl_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; *j*= 1:2
t1_cl_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; *k*=1:5
t1_cohen_ans_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	total "alkyl" nitrates

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_cohen_hno3_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	
t1_cohen_no2_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	
t1_cohen_np_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	total NO2 signal from 180 C channel
t1_cohen_npa_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	total NO2 signal from 370 C channel
t1_cohen_npah_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	total NO2 from 620 C channel
t1_cohen_pns_obs.txt	trace gas	Ronald Cohen	cohen@cchem.berkeley.edu	huey_script.xls	total peroxynitrates from 180 C channel
t1_degouw_1_butene_2_methyl_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_1_butene_3_methyl_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_1_butene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_1_pentene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_2_butene_2_methyl_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_2_methyl_1_propene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_acetaldehyde_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_aceticacid_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_acetone_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_acetonitrile_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_acetylene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_c10benzenes_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_c11benzenes_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_c2_butene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_c2_pentene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_c8benzenes_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_c9benzenes_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_ethylene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_ibutane_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_degouw_ipentane_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_mek_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_methanol_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_napthalene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_nbutane_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_nhexane_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_npentane_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_propane_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_propylene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_t2_butene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_t2_pentene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_degouw_toulene_obs.txt	hydrocarbon	Joost deGouw	joost.degouw@noaa.gov	huey_script.xls	
t1_doran_ec_obs.txt	aerosol composition	Christopher Doran	Chris.Doran@pnl.gov	doran_outputOCEC_v2.m	
t1_doran_oc_obs.txt	aerosol composition	Christopher Doran	Chris.Doran@pnl.gov	doran_outputOCEC_v2.m	
t1_doran_oc_pom_obs.txt	aerosol composition	N/A	N/A	doran_outputOCEC_v2.m	
t1_dri_absorption_obs.txt	aerosol radiative	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t1_dri_pressure_obs.txt	meteorology	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t1_dri_relative_humidity_obs.txt	meteorology	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t1_dri_scattering_obs.txt	aerosol radiative	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t1_dri_single_scattering_albedo_obs.txt	aerosol radiative	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t1_dri_temperature_obs.txt	meteorology	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t1_fischer_nh3_obs.txt	trace gas	Marc Fischer	MLFischer@lbl.gov	huey_script.xls	
t1_fischer_relative_humidity_obs.txt	meteorology	Marc Fischer	MLFischer@lbl.gov	huey_script.xls	
t1_fischer_shortwave_radiation_obs.txt	radiation	Marc Fischer	MLFischer@lbl.gov	huey_script.xls	
t1_fischer_temperature_obs.txt	meteorology	Marc Fischer	MLFischer@lbl.gov	huey_script.xls	
t1_gaffney_downwellinguv_obs.txt	radiation	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	
t1_gaffney_precipitation_obs.txt	meteorology	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	
t1_gaffney_pressure_obs.txt	meteorology	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	Suspiciously low values circa

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
					585 mb. Recommend not using.
t1_gaffney_relative_humidity_obs.txt	meteorology	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	
t1_gaffney_temperature_obs.txt	meteorology	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	
t1_gaffney_wind_direction_obs.txt	meteorology	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	
t1_gaffney_wind_speed_obs.txt	meteorology	Nancy Marley	namarley@ualr.edu	t0_Gaffney_script.xls	
t1_guenther_o3_ballon_obs.txt	trace gas	Andrew Turnipseed	turnip@ucar.edu	Guenther_ballon_script.xls	
t1_guenther_o3_obs.txt	trace gas	Andrew Turnipseed	turnip@ucar.edu	Guenther_surface_script.xls	
t1_huey_co_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_huey_h2so4_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_huey_ho2ro2_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_huey_no_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_huey_o3_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_huey_oh_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_huey_so2_obs.txt	trace gas	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_ec_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	Suspicious values from 3/27 1.933UTC though 3/27 2.917 UTC
t1_hueyweber_oc_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_ca_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_cl_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_k_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_mg_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_na_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_nh4_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_no2_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_no3_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_pils_so4_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_hueyweber_pils_wsoc_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_teom_pm25_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	
t1_hueyweber_oc_pom_obs.txt	aerosol composition	Greg Huey	greg.huey@eas.gatech.edu	huey_script.xls	derived; pom=oc*1.4
t1_junkerman_hcho_obs.txt	trace gas	Wolfgang Junkermann	wolfgang.junkermann@imk.fzk.de	Junkerman_HCHO_script.xls	
t1_lefer_aot500_obs.txt	aerosol radiative	Barry Lefer	blefer@uh.edu	huey_script.xls	Probable cloud contamination for values >0.5
t1_lefer_j_ch2o_h_hco_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_ch2o_h2_co_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_h2o2_2oh_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_hno2_oh_no_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_hno3_oh_no2_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_no2_no_o3p_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_o3_o2_o1d_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lefer_j_pan_hv_products_obs.txt	photolysis	Barry Lefer	blefer@uh.edu	huey_script.xls	
t1_lloyd_peroxide_obs.txt	trace gas	Judy Weinstein-Lloyd	lloydj@oldwestbury.edu	huey_script.xls	
t1_m4_ams_cl_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ams_nh4_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ams_no3_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ams_org_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ams_so4_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ams_total_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_atm_uv_radiation_obs.txt	radiation	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_m4_dc2000ce_obs.txt	aerosol area	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_li6262_a_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_li6262_b_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_li820_co2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_maap_bc_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_no_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_noy_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pas_2000_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pas2000ce_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_babs_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_bc_obs.txt	aerosol composition	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_bsca_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_bssa_obs.txt	aerosol radiative	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_noise_obs.txt	instrument performance	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_pressure_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_relative_humidity_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_paslanl_temperature_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pmf_bboa_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pmf_hoac_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pmf_ooa_1_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pmf_ooa_2_obs.txt	aerosol size/composition/mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_pressure_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_acetaldehyde_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_acetone_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_m4_ptrms_benzene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_c3benzene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_ch3cn_cor_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_methanol_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_toluene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_ptrms_xylene_obs.txt	hydrocarbon	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_qcl_co_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	Values >3000 suspicious
t1_m4_qcl_hcho_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_qcl_hno3_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_qcl_nh3_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_qcl_no2_obs.txt	trace gas	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_relative_humidity_obs.txt	meteorology	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_total_cpc_obs.txt	aerosol number	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	
t1_m4_tsi_dustraka_pm25_obs.txt	aerosol mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	Suspicious values throughout file. Recommend not using.
t1_m4_tsi_dustrakb_pm25_obs.txt	aerosol mass	Chuck Kolb	kolb@aerodyne.com	aerodyne_script.xls	Suspicious values throughout file. Recommend not using.
t1_mit_aot500_obs.txt	aerosol radiative	Almeida Castanho	castanho@mit.edu	sunphotometer_mit_script.xls	
t1_mpl_mixing_height_obs.txt	meteorology	Will Shaw	will.shaw@pnl.gov	rwp_mpl_pbl_script.xls	derived; *j*=1:2
t1_nh4_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; k=1:5
t1_nh4_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; *j*=1:2
t1_no3_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; k=1:5

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_no3_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; *j*=1:2
t1_org_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; *k*=1:5
t1_org_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	
t1_querol_pm10_al2o3_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_c_total_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_ca_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_cl_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_co3_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_crustal_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_ec_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	Suspicious outlier value of 8.9 ppb at line 22
t1_querol_pm10_fe_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_k_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_mg_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_na_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_nh4_ion_obs.txt	aerosol size/composition/ma	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
	ss				
t1_querol_pm10_no3_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_obs.txt	aerosol mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_oc_ec_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_oc_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	Suspicious outlier value of 13.3 ppb at line 22
t1_querol_pm10_sic_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_sio2_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_so4_cenica_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_so4_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm10_trace_elements_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_al2o3_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_c_total_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_ca_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_cl_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_co3_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_crustal_obs.txt	aerosol size/composition/ma	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
	ss				
t1_querol_pm25_ec_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_fe_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_k_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_mg_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_na_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_nh4_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_no3_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_obs.txt	aerosol mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_oc_ec_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_oc_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_sic_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_sio2_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_so4_cenica_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_so4_ion_obs.txt	aerosol size/composition/mass	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	
t1_querol_pm25_trace_elements_obs.txt	aerosol size/composition/ma	Xavier Querol	xavier.querol@ija.csic.es	t1_Querol_script.xls	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
	ss				
t1_rs_mixing_height_obs.txt	meteorology	Will Shaw	Will.Shaw@pnl.gov	rs_pbl_script.xls	
t1_rwp_mixing_height_obs.txt	meteorology	Will Shaw	Will.Shaw@pnl.gov	rwp_mpl_pbl_script.xls	
t1_salcido_friction_velocity_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_monin_obukhov_length_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_pressure_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	Suspiciously low values circa 585 mb. Recommend not using.
t1_salcido_relative_humidity_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_scale_temperature_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_sensible_heat_flux_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_solar_radiation_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_temperature_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_turbulent_kinetic_energy_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_wind_direction_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	
t1_salcido_wind_speed_obs.txt	meteorology	Dr. Alejandro Salcido	salcido@iie.org.mx	t1_Salcido_script.xls	derived; *j*=1:2
t1_smps_ch_*nnn*_obst.txt	aerosol size/number	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	*nnn*=1:111
t1_smps_4binwrf_bin*j*area_ins_obs.txt	aerosol size/area	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *j* =1:2
t1_smps_4binwrf_bin*j*area_wrf_obs.txt	aerosol size/area	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *j* =1:2
t1_smps_4binwrf_bin*j*number_obs.txt	aerosol size/number	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *j* =1:2
t1_smps_4binwrf_bin*j*volume_ins_obs.txt	aerosol size/volume	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *j* =1:2
t1_smps_4binwrf_bin*j*volume_wrf_obs.txt	aerosol size/volume	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *j* =1:2
t1_smps_8binwrf_bin*k*area_ins_obs.txt	aerosol size/area	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *k* =1:4
t1_smps_8binwrf_bin*k*area_wrf_obs.txt	aerosol size/area	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *k* =1:4
t1_smps_8binwrf_bin*k*number_obs.txt	aerosol size/number	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *k* =1:4

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t1_smps_8binwrf_bin*k*volume_ins_obs.txt	aerosol size/volume	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *k* =1:4
t1_smps_8binwrf_bin*k*volume_wrf_obs.txt	aerosol size/volume	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	derived; *k* =1:4
t1_smps_tot_n_obs.txt	aerosol number	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	
t1_smps_tot_v_obs.txt	aerosol volume	Alex Laskin	Alexander.laskin@pnl.gov	t1_smps_script.xls	
t1_so4_4binwrf_bin*j*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	derived; *k*=1:5
t1_so4_8binwrf_bin*k*MassConc_obs.txt	aerosol size/composition/mass	N/A	N/A	t1_ams_script.xls	
t1_weber_ec_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_oc_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_ca_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_cl_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_mg_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_na_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_nh4_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_no2_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_no3_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_so4_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_pils_total_organic_carbon_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_teom_pm25_obs.txt	aerosol mass	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t1_weber_oc_pom_obs.txt	aerosol composition	Rodney Weber	rweber@eas.gatech.edu	t1_Weber_script.xls	
t2_barnard_aot500_obs.txt	aerosol radiative	James Barnard	james.barnard@pnl.gov	outputBroadband_v2_barnard.m	PI indicates probable cloud contamination for values >0.5
t2_barnard_total_downwelling_broadband_rad_obs.txt	radiation	James Barnard	james.barnard@pnl.gov	outputBroadband_v2_barnard.m	
t2_doran_ec_obs.txt	aerosol composition	Christopher Doran	Chris.Doran@pnl.gov	doran_outputOCEC_v2.m	
t2_doran_oc_obs.txt	aerosol composition	Christopher Doran	Chris.Doran@pnl.gov	doran_outputOCEC_v2.m	derived; pom= 1.4*oc
t2_doran_oc_pom_obs.txt	aerosol composition	Christopher Doran	Chris.Doran@pnl.gov	doran_outputOCEC_v2.m	

Filename	Parameter Type	Principal Investigator (PI)	PI email	Processing Script	Comments
t2_dri_absorption_obs.txt	aerosol radiative	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t2_dri_absorption1_obs.txt	aerosol radiative	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t2_dri_absorption10_obs.txt	aerosol radiative	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t2_dri_pressure_obs.txt	meteorology	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t2_dri_relative_humidity_obs.txt	meteorology	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t2_dri_temperature_obs.txt	meteorology	Patrick Arnott	pat@dri.edu	t1_t2_dri_script.xls	
t2_rs_mixing_height_obs.txt	meteorology	Will Shaw	will.shaw@pnl.gov	rs_pbl_script.xls	
t2_rwp_mixing_height_obs.txt	meteorology	Will Shaw	will.shaw@pnl.gov	rwp_mpl_pbl_script.xls	

4.0 Aircraft Flight Locations

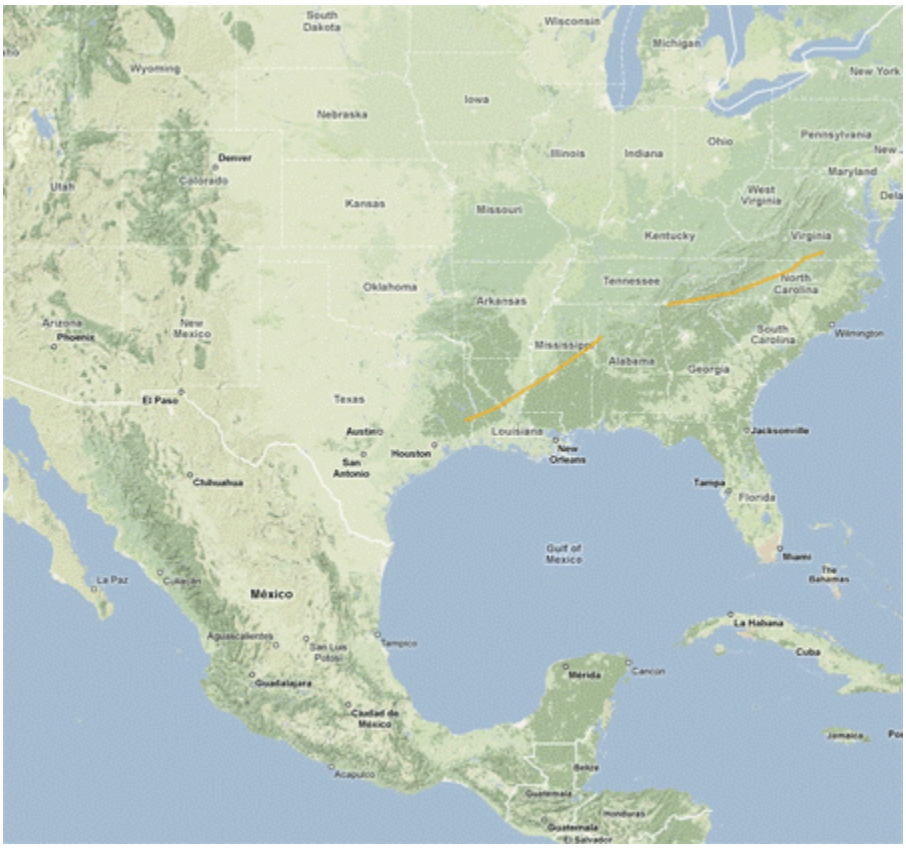
Aircraft data in the AMT include measurements from six different research aircraft, including: B-200 (NASA), C-130 (NCAR), DC-8 (NOAA), G-1 (DOE), J-31 (NASA), and Twin Otter (USFS). The DC-8 operated out of Houston, Texas; all other aircraft were based in Veracruz, Mexico.

The G-1 primarily measured aerosol properties and precursor gas contributions over and downwind of Mexico City; the B-200 measured the corresponding radiative impacts. The C-130 sampled air at various distances from Mexico City to measure how gases and particles age with transport time and distance. The larger DC-8 aircraft provided comprehensive observations of chemistry and aerosols using both direct air sampling and laser remote sensing while the smaller J-31 focused exclusively on the radiative impacts of aerosols. Lastly, the Twin Otter sampled smoke plumes downwind of fires. Table 4.1 lists the MILAGRO aircraft flights, flight data record start and end times as entered in the Analysis Toolkit, and images of the flight paths.

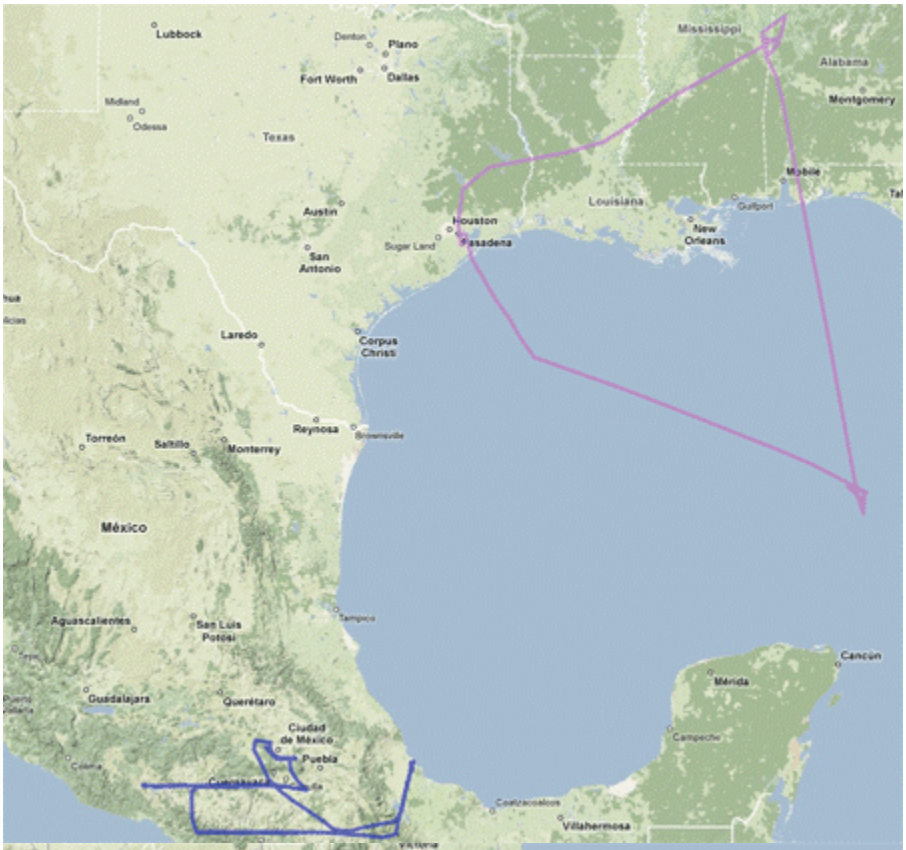
Table 4.1. Aircraft Flights and Flight Times for Observational Data Included in the MILAGRO Testbed Case. The color of the aircraft name corresponds to the color of its flight path shown on the map.

Date	Aircraft	Start Time	End Time
03/01/06	B-200	16.16306	17.90694
	B-200	19.67833	21.21500

Flight Path



Date	Aircraft	Start Time	End Time	Flight Path
03/02/06	B-200	15.91361	17.67750	
03/03/06	B-200	18.77556	21.10694	
	G-1	18.46944	21.85833	
	J-31	16.71861	19.95500	

Date	Aircraft	Start Time	End Time	Flight Path
03/04/06	C-130	18.38333	1.73889	
	DC-8	16.70000	22.78333	
03/05/06	J-31	15.94000	17.90500	

Date	Aircraft	Start Time	End Time
03/06/06	B-200	16.19944	18.48750
	G-1	17.10833	20.76111
	J-31	15.65028	18.66694
03/07/06	B-200	17.30944	20.40861
	G-1	18.16667	21.71389

Flight Path

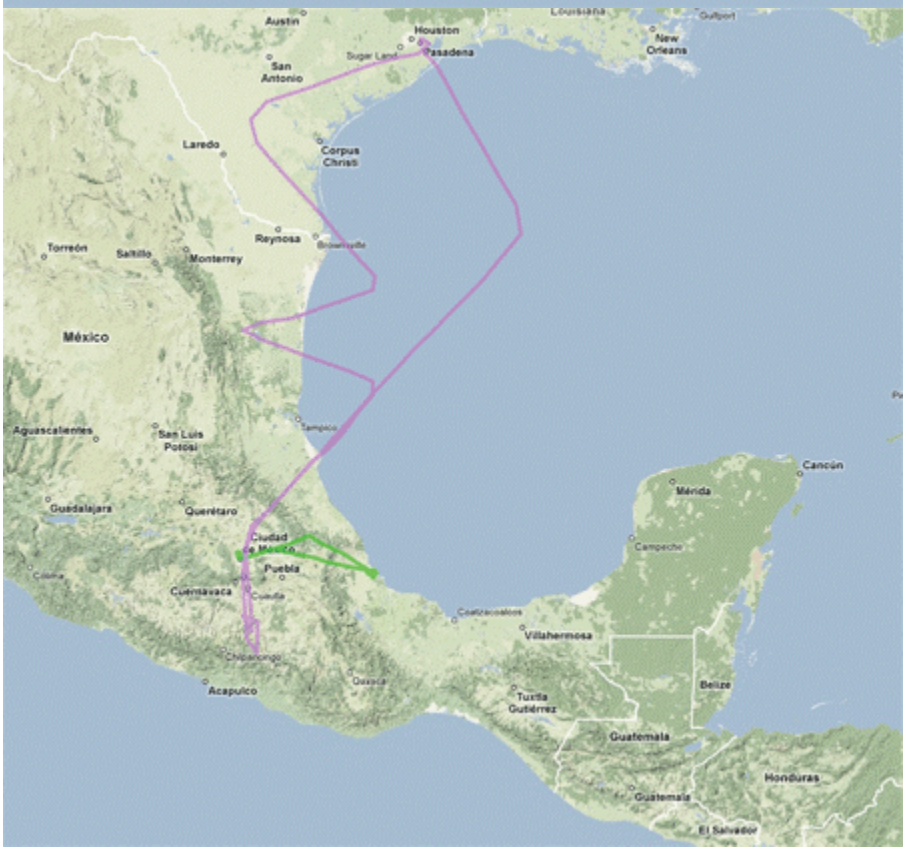
Date	Aircraft	Start Time	End Time
03/08/06	B-200	19.41778	20.95278
	C-130	17.53056	19.14400
03/09/06	B-200	15.16861	17.93417
	DC-8	14.65000	22.98333
	G-1	15.65556	19.03333

Flight Path

Date	Aircraft	Start Time	End Time
03/09/06	B-200	20.47917	22.81861
	G-1	20.59444	0.13889

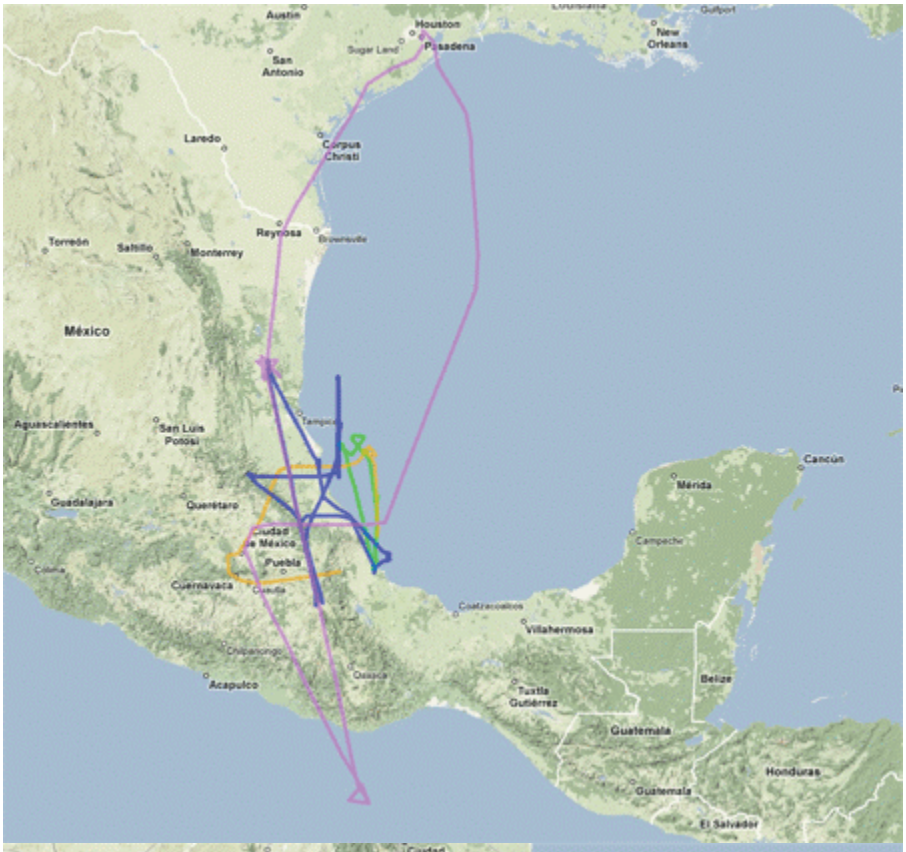
Flight Path

03/10/06	B-200	15.53000	17.66528
	C-130	15.73611	23.87778
	J-31	15.26306	18.00750

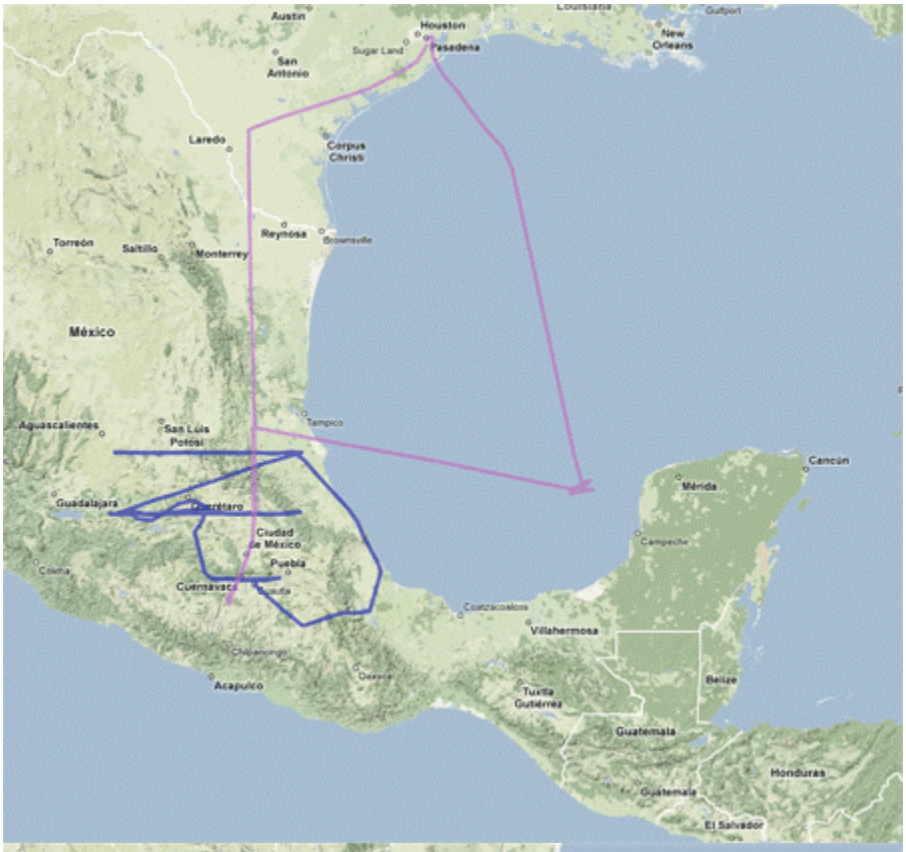
Date	Aircraft	Start Time	End Time	Flight Path
03/10/06	J-31	19.18306	21.27417	
03/11/06	DC-8	17.08333	0.43333	
	J-31	16.21500	18.90222	

Date	Aircraft	Start Time	End Time
03/12/06	B-200	16.42944	18.99722
	C-130	17.43611	1.58056
	DC-8	17.35000	1.13333
	J-31	15.81944	18.51833
03/13/06	B-200	16.76333	19.90833
	J-31	15.68722	19.23306

Flight Path



Date	Aircraft	Start Time	End Time	Flight Path
03/15/06	B-200	16.32722	18.88583	
	G-1	16.03611	18.44444	
	J-31	15.82056	19.30333	
03/15/06	G-1	21.01389	0.25556	

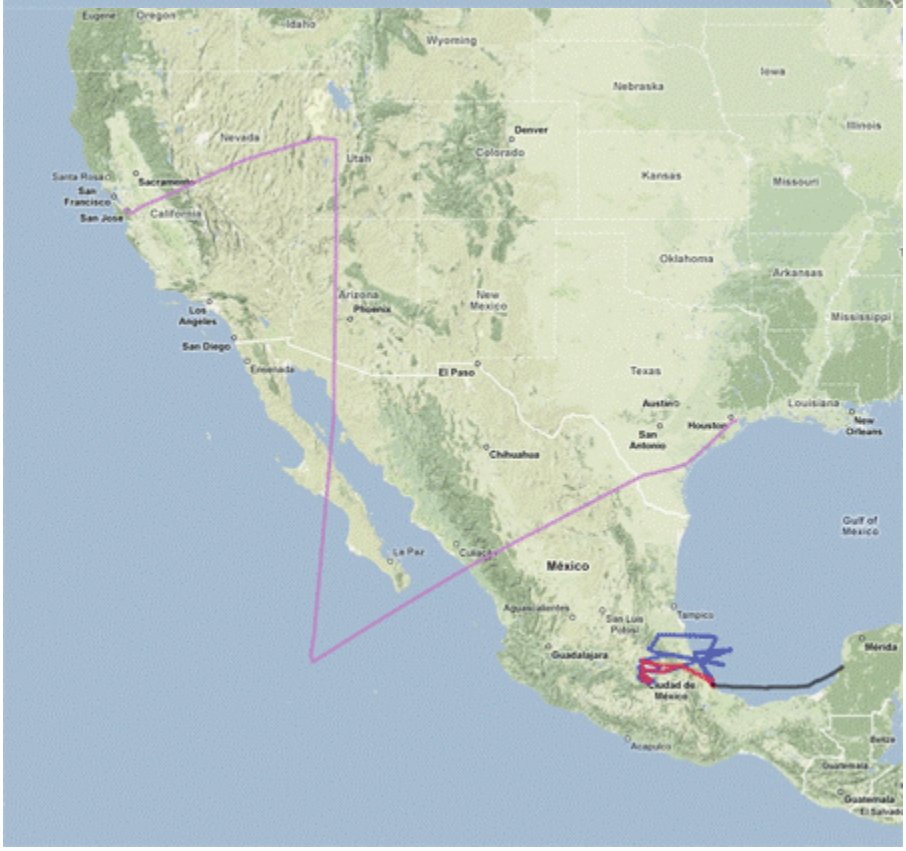
Date	Aircraft	Start Time	End Time	Flight Path
03/16/06	C-130	15.78611	0.55833	
	DC-8	14.78333	21.83333	
03/17/06	J-31	18.41861	21.73917	

Date	Aircraft	Start Time	End Time
03/18/06	C-130	15.22778	23.73056
	G-1	19.47778	23.16111
	J-31	16.75444	19.66972
	Twin Otter	19.85528	0.14222

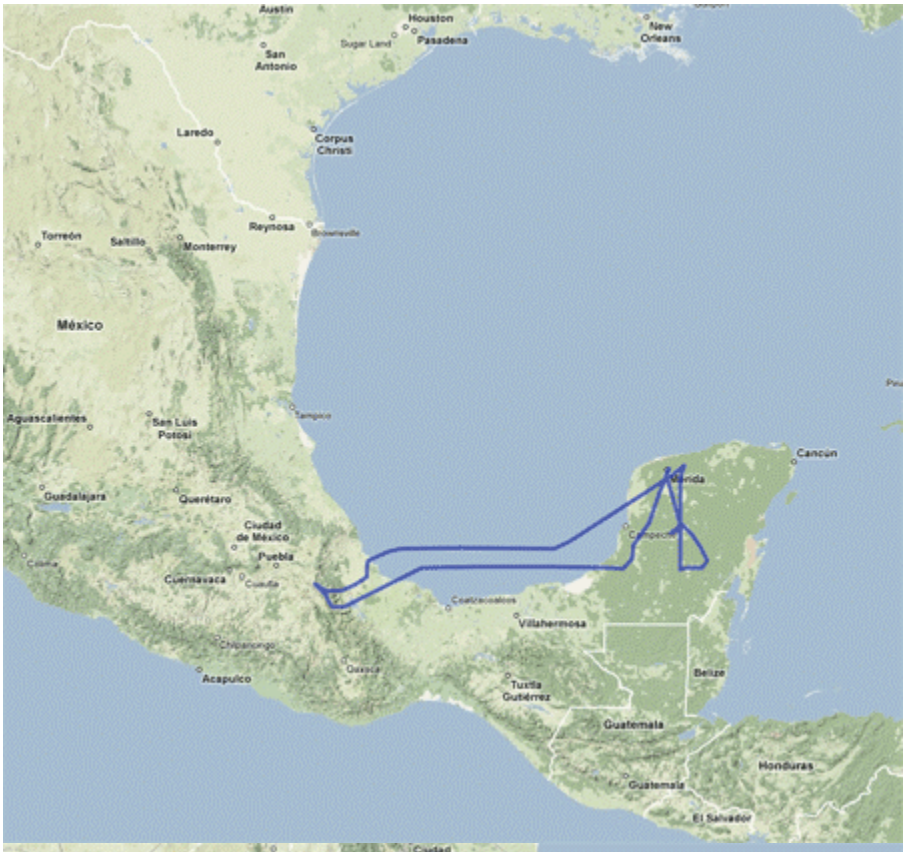
Flight Path

03/19/06	C-130	17.45278	2.21389
	DC-8	16.66667	23.15000
	G-1	15.98056	18.87500
	J-31	18.29444	21.36528

Date	Aircraft	Start Time	End Time	Flight Path
03/19/06	G-1	20.93056	0.08056	
03/20/06	G-1	15.55000	18.28611	
	J-31	17.55722	19.56889	
	Twin Otter	16.73083	19.55806	

Date	Aircraft	Start Time	End Time	Flight Path
03/20/06	G-1	20.02778	22.96944	
	Twin Otter	21.53083	22.99083	
03/22/06	C-130	15.73056	22.68056	
	DC-8	3.11667	10.51667	
	G-1	15.51389	18.38889	
	Twin Otter	15.31861	17.37611	

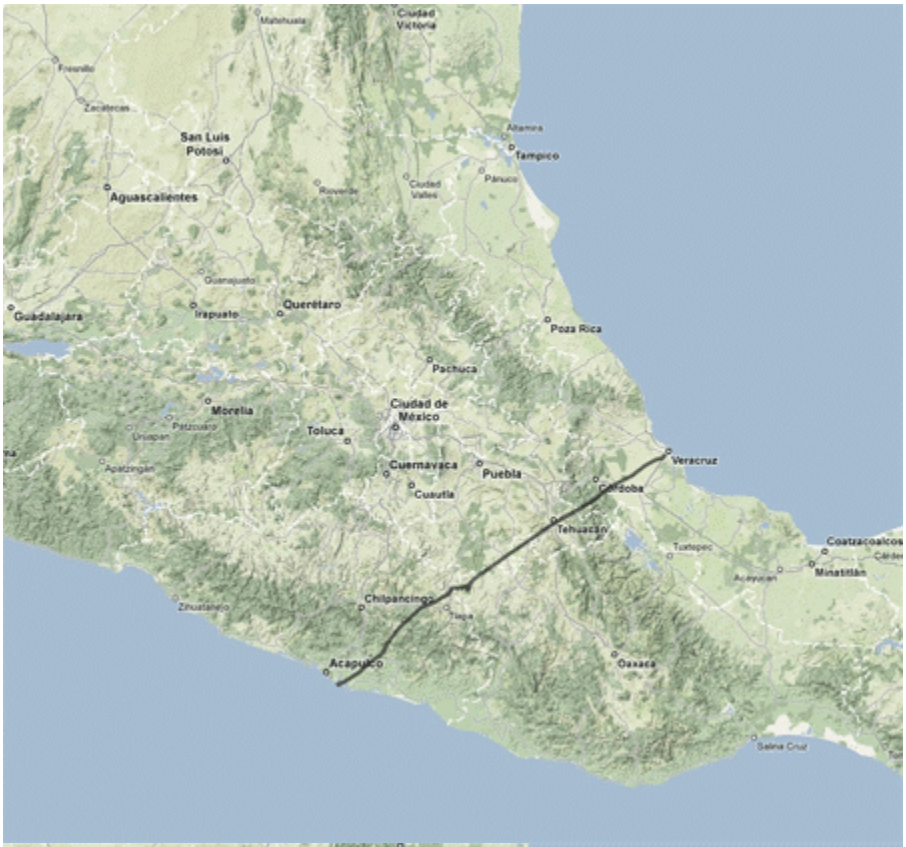
Date	Aircraft	Start Time	End Time	Flight Path
03/22/06	Twin Otter	18.77639	21.84306	
03/22/06	Twin Otter	22.96861	1.78194	

Date	Aircraft	Start Time	End Time	Flight Path
03/23/06	C-130	17.32778	23.39722	
03/25/06	B-200	22.36611	22.82028	
	Twin Otter	18.01000	21.02806	

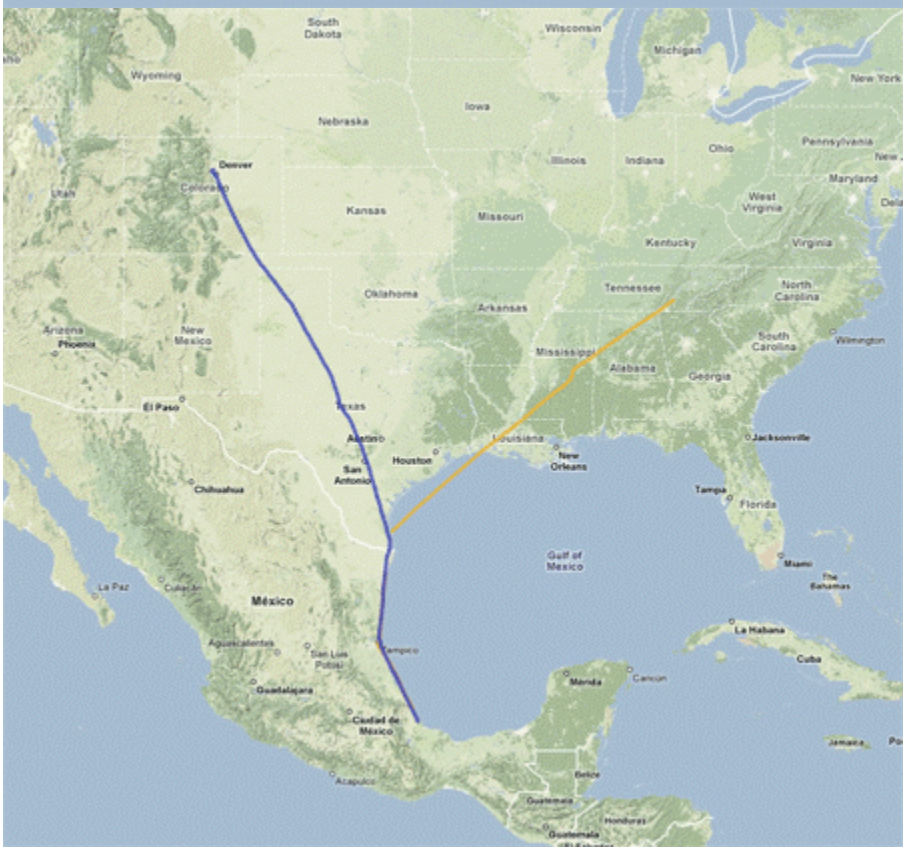
Date	Aircraft	Start Time	End Time
03/26/06	C-130	17.37500	19.63056
	G-1	15.77778	18.97222

Flight Path

03/27/06	B-200	17.25333	20.27389
	G-1	16.96389	20.16111
	Twin Otter	17.16667	20.75000

Date	Aircraft	Start Time	End Time	Flight Path
03/27/06	Twin Otter	21.88222	23.62333	
03/28/06	B-200	14.41944	17.29917	
	C-130	10.18611	17.50833	
	Twin Otter	15.85194	18.13861	

Date	Aircraft	Start Time	End Time	Flight Path
03/28/06	Twin Otter	19.27611	23.15556	
03/29/06	B-200	16.32417	19.18194	
	C-130	17.10833	23.86389	
	Twin Otter	17.23194	21.10639	

Date	Aircraft	Start Time	End Time	Flight Path
03/29/06	B-200	21.70889	0.04833	
03/31/06	B-200	16.63222	17.96972	
	C-130	16.01389	21.05833	
	B-200	19.38583	22.34278	

5.0 Surface Site Locations

As discussed in Section 2, MILGARO surface data is organized into four subdirectories: *mobile, other, rama,* and *supersites*. *Mobile* sites refer to the locations where mobile laboratories operated by Aerodyne Research, Inc., made atmospheric chemistry and meteorological measurements at stationary and on-road locations. *Other* sites include locations where ancillary routine measurements useful for the AMT were made, such as stations in the Servicio Meteorologico Nacional meteorological network and NASA's AERONET network. Routine meteorological, trace gas, and particulate matter measurements from Mexico City's Red Automatica de Monitoreo Atmosferico (RAMA) air-quality monitoring network are included in the *rama* directory. The *supersites* subdirectory includes measurements from sites established to provide detailed atmospheric chemistry and meteorological measurements. For MILAGRO, these sites included: T0 (located at the Instituto Mexicano del Petróleo), T1 (located at the Universidad Tecnológica de Tecámac in the State of Mexico) and T2 (located in Rancho La Bisnaga, north of Tizayuca in the State of Hidalgo).

Table 5.1 provides a complete list of surface sites available in the MILAGRO testbed case, including the station identifier, latitude and longitude coordinates, and location within the Analysis Toolkit directory structure. Figure 5.1 shows the locations of these surface stations on a regional map while Figure 5.2 shows sites located in and around the Mexico City metropolitan area.

Table 5.1. Surface stations included in the AMT.

Station ID	Latitude	Longitude	Subdirectory Location
t0	19.488	-99.147	supersite
t1	19.703	-98.982	supersite
t2	20.01	-98.909	supersite
ped	19.3253	-99.2041	mobile
pemex	19.8622	-99.2952	mobile
ptp	19.5913	-99.115	mobile
sa	19.1772	-98.9902	mobile
lag	19.44358	-99.1352	rama
tac	19.45507	-99.2025	rama
eac	19.48192	-99.2433	rama
tla	19.5284	-99.2042	rama
xal	19.52775	-99.0764	rama
mer	19.42439	-99.1193	rama
ped	19.32473	-99.2037	rama
ces	9.33588	-99.0747	rama
pla	19.36703	-99.2001	rama
han	19.42167	-99.0836	rama
uiz	19.36239	-99.0712	rama
ara	19.47138	-99.0746	rama
net	19.42231	-99.0261	rama
ibm	19.4427	-99.2155	rama
bju	19.37162	-99.1596	rama
tax	19.33684	-99.1232	rama

Station ID	Latitude	Longitude	Subdirectory Location
min	19.4226	-99.1629	rama
cui	19.47102	-99.1658	rama
tli	19.60197	-99.1768	rama
ati	19.57639	-99.2539	rama
vif	19.65767	-99.0963	rama
sag	19.53225	-99.0299	rama
val	19.5236	-99.1657	rama
azc	19.48889	-99.1987	rama
sur	19.31369	-99.1497	rama
cua	19.36383	-99.2987	rama
tpn	19.25629	-99.1839	rama
cha	19.45981	-98.9025	rama
tah	19.24573	-99.0102	rama
coy	19.34936	-99.1571	rama
lvi	19.46905	-99.1178	rama
sja	19.45194	-99.0858	rama
per	19.38402	-98.9919	rama
cam	19.4675	-99.1694	rama
lla	19.57824	-99.0393	rama
lpr	19.53408	-99.1174	rama
mcv	28.7	-106.07	other
mty	25.87	-100.2	other
lap	24.07	-110.33	other

Station ID	Latitude	Longitude	Subdirectory Location
gwa	20.68	-103.33	other
mid	20.95	-89.65	other
man	19.07	-104.33	other
houston	29.97	-95.33	other
tenangodelaire	19.155	-98.864	other
hildago	19.44	-99.05	other
unam	19.32	-99.18	other
corena	19.273	-99.205	other
techmont	19.595	-99.228	other
uami	19.359	-99.074	other
tamihua	21.261	-97.442	other
tampico	22.278	-97.864	other
aca	16.83	-99.93	other
mex	19.46	-99.2	other
ver	19.17	-96.12	other
paso	19.116	-98.6493	other
ccha	19.499	-99.205	other
cchn	19.475	-99.245	other
ccho	19.384	-99.059	other
cchs	19.314	-99.2	other
cchv	19.483	-99.142	other
enp1	19.275	-99.122	other
enp2	19.384	-99.099	other
enp3	19.483	-99.094	other
enp4	19.403	-99.195	other
enp5	19.3	-99.1	other
enp6	0	0	other
enp7	19.419	-99.127	other
calvi	21.849	-102.712	other
bahia	28.896	-113.56	other
catav	21.849	-102.712	other
larum	21.849	-102.712	other
mexic	32.667	-115.291	other
psaab	32.447	-116.908	other
psaem	31.891	-116.603	other
squin	30.532	-115.838	other
cabos	22.881	-109.926	other
cdcon	25.01	-111.663	other
gusta	27.643	-113.458	other
staro	27.338	-112.269	other
calak	18.365	-89.893	other
campe	19.836	-90.507	other
cddel	18.648	-91.823	other
escar	18.608	-90.754	other
stace	28.399	-101.213	other
palen	17.526	-91.99	other

Station ID	Latitude	Longitude	Subdirectory Location
basas	28.199	-108.209	other
china	26.229	-106.771	other
chini	27.393	-108.536	other
guach	26.814	-107.073	other
jimen	27.111	-104.906	other
magua	27.858	-107.994	other
uriqu	27.216	-107.917	other
escna	19.454	-99.171	other
smn	19.404	-99.197	other
tezon	19.385	-99.1	other
agust	25.263	-104.066	other
lasve	24.186	-105.466	other
psaal	20.848	-100.825	other
cdalt	18.351	-100.658	other
igual	18.36	-99.524	other
pachu	20.097	-98.714	other
hueju	21.155	-98.369	other
chapa	20.29	-103.202	other
jocot	20.283	-103.416	other
losco	20.707	-103.393	other
rioto	19.999	-105.134	other
tizap	20.169	-103.044	other
atlac	19.792	-99.87	other
cerro	19.542	-99.519	other
cemca	19.48	-98.974	other
nevad	19.117	-99.767	other
psama	19.524	-99.268	other
apatz	19.083	-102.372	other
angam	20.125	-101.723	other
insti	18.884	-99.159	other
tepoz	18.951	-99.079	other
psael	25.733	-99.321	other
nochi	17.437	-97.249	other
pinot	16.35	-98.053	other
univt	18.866	-97.722	other
izuca	18.617	-98.452	other
huimi	20.39	-100.284	other
cozum	20.477	-86.907	other
chetu	18.501	-88.328	other
siank	20.128	-87.466	other
cdval	21.98	-99.031	other
mateh	23.648	-100.666	other
alamo	27.022	-108.938	other
yecor	28.367	-108.917	other
matam	25.886	-97.519	other
sanfe	24.843	-98.158	other

Station ID	Latitude	Longitude	Subdirectory Location
altam	22.388	-97.926	other
huama	19.383	-97.95	other
alvar	18.715	-95.633	other
citla	21.335	-97.879	other
cdale	18.189	-96.098	other
centr	19.143	-96.111	other
jalap	19.53	-96.925	other

Station ID	Latitude	Longitude	Subdirectory Location
psala	18.106	-94.331	other
tuxpa	20.96	-97.417	other
tanta	20.03	-89.047	other
celes	20.858	-90.383	other
merid	20.946	-89.652	other
riola	21.571	-88.16	other
zacat	22.747	-102.506	other

Figure 5.1. Regional view of surface sites in the AMT, including Supersites (green), Mobile (red), Rama (blue), and Other (yellow).

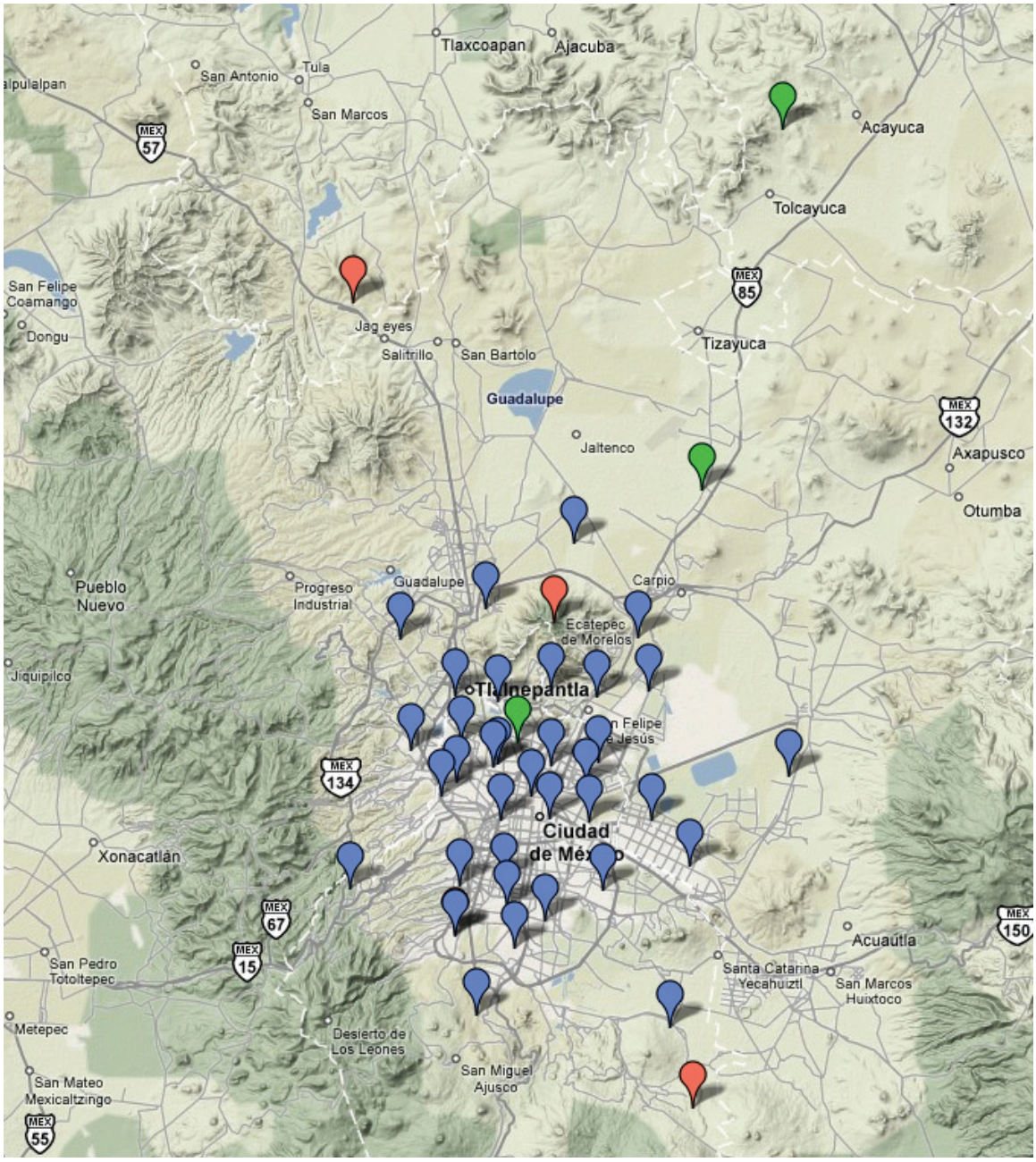


Figure 5.2. MILAGRO Surface Sites in and around Mexico City, Mexico, including Supersites (green), Mobile (red), Rama (blue), and Other (yellow).

6.0 References

Molina, L.T., S. Madronich, J.S. Gaffney, and H.B. Singh. 2008. "Overview of MILAGRO/ INTEX-B Campaign." *IGACtivities Newsletter* 38:2-15.

NOAA. 2009. http://www-air.larc.nasa.gov/missions/etc/IcarttDataFormat.htm.

ORNL. 2009. http://cdiac.ornl.gov/programs/NARSTO/.