

## Section 11 Website data uploading & sharing

**General summary:** Our website Spartan-network.org allows us to share all of the QA/QC processed data. This includes ambient humidity and temperature, hourly PM<sub>2.5</sub> data, major anions (e.g. ammonium sulfate & nitrate) and PM<sub>2.5</sub>/AOD ratios suitable for GEOS-Chem validations. Other variables may be added to be shared on the website in the future.

Website was created by Jason Hopper ([Jason.t.hopper@gmail.com](mailto:Jason.t.hopper@gmail.com)). Server is a laptop located in DUPS storage room.

### Uploading website data

1. Go to Spartan-network.org
2. Log in (username: Spartan, password: \$p@RtaN)
3. Click on Data tab in upper right corner
4. Click on Data Upload in lower right corner
5. Select site. *Make sure you have selected correct site!*
6. Select file (of the form PM25\_[start date]\_[end date]\_[site name/code]). Do not change defaults for datetime pattern or Delimiter.
7. Wait for a few minutes a uploading data takes time (perhaps 30s per kilobyte?)



## SITES

Atlanta, USA  
Bandung, Indonesia  
Beijing, China  
Buenos Aires, Arg.  
Chengdu, Sichuan, China

Ground-based observations have insufficient coverage at the global scale to allow assessment of long-term human exposure to fine particulate matter (PM<sub>2.5</sub>). Thus, we are developing SURFAC (Surface PM<sub>2.5</sub> Analysis Network), a network of ground-based measurements of fine particle concentrations to evaluate and enhance satellite remote sensing estimates that can be applied to health effects research and risk assessment. The network includes a global federation of ground-based monitors of hourly PM<sub>2.5</sub>, primarily in highly populated regions in close proximity to existing ground-based air phenomena that measure aerosol optical depth. Data is publicly available.

## SIES

Atlanta, USA  
Burlington, Vermont  
Chicago, USA  
Dallas, Texas, USA  
Detroit, Michigan  
Houston, Texas  
Los Angeles, California  
Miami, Florida  
New York, New York  
Philadelphia, Pennsylvania  
Portland, Oregon  
San Francisco, California  
Seattle, Washington  
Tampa, Florida  
Washington, DC, USA  
Wichita, Kansas  
Winnipeg, Manitoba  
Winnipeg, Canada



## QUICK LINKS

Chet Davis

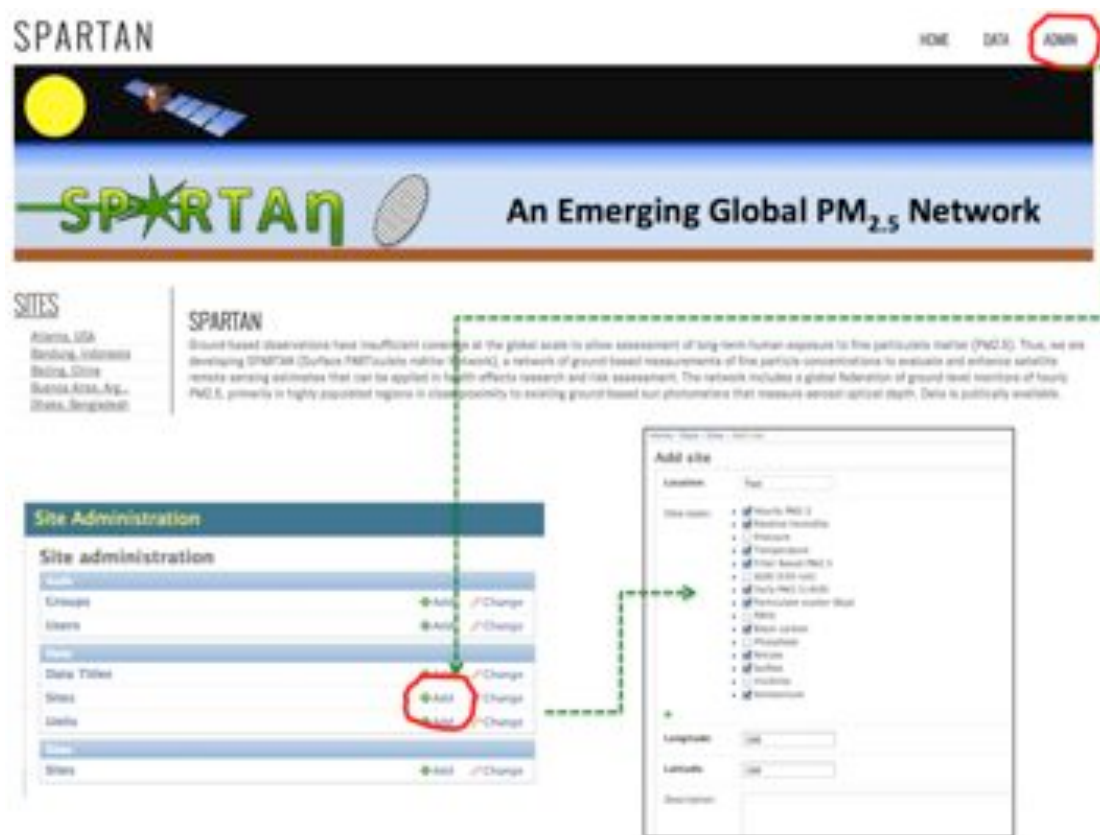
## Plotting data

1. Go to Spartan-network.org
2. Click on Data tab in upper right corner
3. Click on Plot Data in lower right corner
4. Select site and date range
5. Plots of data will be displayed.
6. To download data, click "Download Data" in lower right corner of plots



## Adding a site

1. Go to Spartan-network.org
2. Log in (username: Spartan, password: \$p@RtaN)
3. Click on Admin tab in upper right corner
4. Go to Sites => +Add
5. Choose variables
  - a. Hourly PM2.5
  - b. RH
  - c. Temp
  - d. Filter PM2.5
  - e. Daily PM2.5/AOD (eta)
  - f. Particulate scatter (550nm)
  - g. BC
  - h. Nitrate
  - i. Sulfate
  - j. Ammonium
6. Enter Lat/long coordinates (decimal form)
7. Add description (follow format of other sites)
8. Enter principal investigator (PI) name and email
9. Add photo (representative of site, with SPARTAN instruments visible)



## Adding units,

We should have all the units necessary. For greek letters and other symbols, we use the following unicode:

Superscript 3 (<sup>3</sup>): \u00B3

Mu ( $\mu$ ): \u03BC

Degrees ( $^{\circ}$ ): \u00B0

Superscript minus one (<sup>-1</sup>): \u207B\u00B9

Subscript 2.5 (<sub>2.5</sub>): \u2082.\u2085

## Data titles,

Go to Data. Under Data Titles choose => “+Add”.

The following entries appear: Title, Latex, TitleLatex, Dbname, Units, Order, and Headliner

1. **Title** is title of internal database itself
2. **Latex & TitleLatex:** Title (using Unicode) displayed above plotted graphs
3. **DbName:** Name in “uploaded” data file. Must be exactly matching
4. **Units:** Choose appropriate units
5. **Order:** Choose order displayed in collection of graphs
6. **Headliner:** Don’t change this one

Home > Data > Data Titles > Daily PM2.5/AOD

### Change Data Title

Title:	Daily PM2.5/AOD
Latex:	Daily PM\u2082.\u2085 / AOD
Titlelatex:	Daily PM\u2082.\u2085 / AOD
Dbname:	Eta
Units:	\u03BCg/m\u2083
Order:	2
Headliner:	0