



Satellite Remote Sensing of Dust, Fires, Smoke, & Air Quality

IT Requirements

Each participant **must** come with a laptop computer with the capability to connect to the internet using WiFi

Necessary Software

1. Microsoft Office (or similar software): Excel, Word, PowerPoint
2. Internet Browser: Chrome (preferred), Firefox, or Safari
3. Google Earth: free version available at: <http://www.google.com/earth>
4. Latest Version of Java: available from https://www.java.com/en/download/help/version_manual.xml
5. Adobe Reader (or similar software to open and read PDF files): Adobe Reader is available at: <http://get.adobe.com/reader>
6. Python 2.7
7. Panoply: available at: <http://www.giss.nasa.gov/tools/panoply/>

Information About Python

Python is an open source software available for Windows, Mac, or Linux/Unix operating systems. Anaconda is the recommended way to install python, and can be downloaded at:

<http://www.continuum.io/downloads/>. Some information on Python is also available on the ARSET website at: <http://arset.gsfc.nasa.gov/airquality/python-scripts-aerosol-data-sets-merra-modis-and-omi>

You will need the following python packages installed:

- pyHDF
- numpy
- basemap
- matplotlib
- time
- calendar
- sys

More detailed instructions on installing packages with Anaconda are available here: <https://arset.gsfc.nasa.gov/sites/default/files/airquality/webinars/18-hires/Python%20Instructions.pdf>

Note: for help with the Python installation, please search online or get help from your IT department. **ARSET has limited resources, and will not be able to provide assistance with your python installation.**