

Installing Python with Anaconda

Please follow the following instructions to install Python 2.7. **If you encounter a problem, please look for a solution online or with your IT department.** Due to limited resources, ARSET is not able to further assist you in the Python installation process.

Downloading and Installing Anaconda

1. Make sure you have administrative privileges on your computer or install on a local directory to avoid any permission issues
2. Download the Anaconda installer at <http://www.continuum.io/downloads/>
3. For this training, we recommend you install Python 2.7

Installing Packages

4. Once you have installed Anaconda, open your terminal/CMD and enter the following command:

```
conda install pyhdf
```

5. If this does not work, try the following commands:
conda install -c conda-forge pyhdf
or
conda install -c cistools pyhdf

Anaconda will then display a description of what it intends to install before asking you to confirm installation. **Read this carefully** anytime you install a package with Anaconda; it sometimes upgrades or downgrades packages (if needed), which can cause previously installed packages to stop working.

6. Install `mpl_toolkits.basemap` using
conda install basemap
 - Note: you can check which packages are installed with the following:
conda list
7. If needed, you can update a package by repeating the installation command

Using IDEs with Anaconda

Depending on the IDE you are trying to use, it may be possible to set up your IDE to use the Anaconda environment. This will mean using the interpreter and packages

installed with Anaconda. For specific instructions on how to do this, visit:

<http://docs.continuum.io/anaconda/user-guide/tasks/integration/>

Note: *Anaconda comes with a minimal IDE named Spyder, which is available from the Anaconda Navigator.*

Further Anaconda Details and Capabilities

In addition to being a package management software, Anaconda is also an environment management software. This means two things:

- It stores all files (including the Python interpreter and packages) in the anaconda directory, which can lead to difficulties if you try to use the files in an external version of Python
- It can manage multiple versions of Python separately

For more details, visit: <http://conda.io/docs/py2or3.html>