# Instructions to setup PyCharm with Python and extensions

1. Install python 3.6.3 x64 version for windows (disable filename length, all users and directory Program files/Python).
2. Install PyCharm community version.
3. Create a new project with the interpreter as Python 3.6.3
4. In project settings->interpreter upgrade setup tools.
5. Install nump+MKL from [here](http://www.lfd.uci.edu/~gohlke/pythonlibs/#numpy).
6. Add Cython.
7. Add Ipython.
8. Add pyproj
9. Download windows binaries for netCDF4 (CP 36, win AMD64) from [here](https://pypi.python.org/pypi/netCDF4) and move them to the python home directory.
10. Open a windows PowerShell as administrator and use “C:\Program Files\Python36> .\Scripts\pip.exe install .\netCDF4-1.3.0-cp36-cp36m-win\_amd64.whl” at the python home directory.
11. Add matplotlib.
12. Maybe this is not needed: Download latest windows WHL file for the basemap toolkit from [here](http://www.lfd.uci.edu/~gohlke/pythonlibs/#basemap).
13. Install SciPy whl from [here](http://www.lfd.uci.edu/~gohlke/pythonlibs/#scipy). Maybe this line is needed first at the Python library: “.\Scripts\pip.exe install numpy scipy matplotlib ipython jupyter pandas sympy nose”
14. Install nump+MKL from [here](http://www.lfd.uci.edu/~gohlke/pythonlibs/#numpy).
15. Run a test script.
16. temp\_slp\_data[:, :, current\_day] = basemap.interp(np.squeeze(slp\_data[current\_day,:,:]), x\_sparse, y\_sparse, x\_dense, y\_dense, order=3)