SPORK Installation Instructions

1. Download the Github repository and extract the files from the zipped folder into the directory you plan on running the program in.
2. The next several steps involve creating a conda environment to run SPORK in. To create this environment, launch the Anaconda command prompt (on Windows) or a terminal window (in Linux) and type “conda create –name test\_SPORK” (you can replace test\_SPORK with a different name you want to call the environment). Make sure you’ve got Anaconda installed first.
3. Activate your new environment with “conda activate test\_SPORK”
4. Next, we’re going to install the modules we need to run SPORK in this environment. The commands that follow each install a module we’ll need.
5. Enter “conda install jupyter” This installs jupyter notebooks, which we’ll use to run SPORK later.
6. Enter “conda install -c conda-forge arm\_pyart” This brings in Pyart, which will be used to read and work with the radar data.
7. Enter “conda install -c conda-forge metpy”
8. Enter “conda install scikit-learn”
9. Enter “conda install -c conda-forge siphon”
10. Enter “pip install nexradaws”
11. Enter “conda install numba”
12. Enter “conda install scikit-image”
13. Open another terminal and activate the test\_SPORK environment as in step 3. Launch a jupyter notebook from the terminal by entering “jupyter notebook”
14. A browser window should pop up with a jupyter notebook showing all of the directories within whatever folder the notebook was launched from. Navigate through this to the folder SPORK has been placed in and find the example notebook (in this case, Storm Motion Deltas.ipynb) and click on it to launch it.
15. Try running the notebook. If it runs, SPORK is successfully installed.