**OpenWeatherMaps**

The following files are used to update the mobile data with weather data from openweathermap.org.

* **RetrieveData.py** - This function uses query number 10 (<http://www.geospaces.org/aura/webroot/db.jsp?qn=10>) to find the entries in our DB that still need weather data associated with them. It would then typically pass this data on to OpenWeatherRequest.py.
* **OpenWeatherRequest.py** - This function takes in a set of data from our DB and then finds the most accurate weather data available for it on OpenWeatherMaps. It will first find the closest "weather station" and then find the weather reading from that station that is nearest to the time of the reading from the mobile device. This may be historical or current depending on how recent the entries time of reading is. It would then typically be used to pass this data to SaveData.py.
* **SavaData.py** - This file uses qn=5 to upload weather data to our DB.
* **RunOpenWeatherDataUpdate.py** - This file makes use of the above functions to update data entries.