***Project Title:***

**A Landfall Mapping tool for North Atlantic Hurricanes**

***Summary/Purpose of Tool:***

This tool enables the user to select a particular storm (by name and year) and produces a list of counties affected by that storm.

***Tool inputs:***

* Storm name
* Storm year

***Model outputs:***

* Table listing each county affected, including time of impact and storm strength at time of impact.

***Data requirements:***

* Table of storm track points for all named storms in the North Atlantic tagged by time and storm strength. (obtained from IBTRaCTs web site(<http://www.ncdc.noaa.gov/oa/ibtracs/>)
* Feature class of US counties. Obtained from ESRI data disks.

***General workflow***

1. Storm name and storm year (provided by user) is used to select records from the IBTRaCTS data table.
2. Track points are converted into a line feature class.
3. The storm track line and the county feature classes are interesected.
4. The table of the intersected features is written out to a new filename specified by the user. I may rename fields to make the table more presentable.

**Comments:**

I’ve located the storm track data, but I’m having trouble determining the projection of the IBTRaCTs points. I have a call in to the data manager to get this information. If I hear no reply, I will use my best guess (WGS 84) or perhaps find another dataset. This will weaken my output, but it’s easily fixed once I determine the projection of the data.

Also, if I have more time, I’d like to add a feature that allows the user to, instead of select just counties, select features from a range of datasets (e.g. HUC8s or land parcels), or simply specify which feature class to use to select features from.