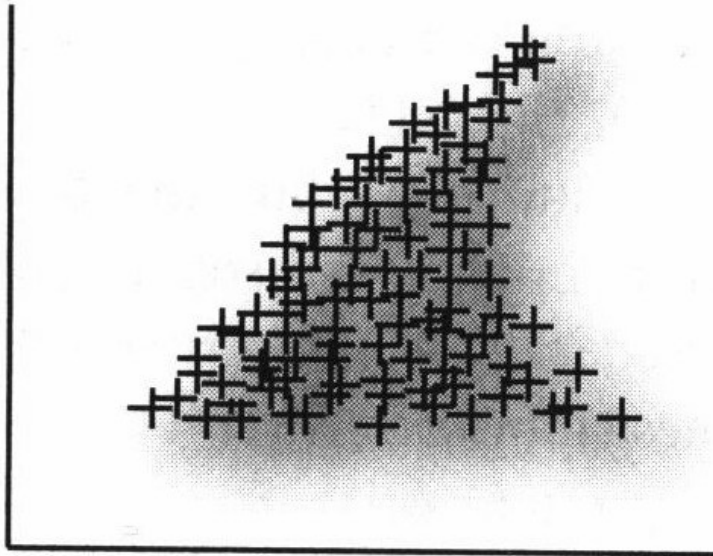Homework #12
Geology 4113 (Remote Sensing)
Assigned April 20, 2018
Friday April 27, 2018

1. Vegetation (10 points)   After the Tasseled Cap transformation has been applied to multispectral data, the following diagram represents the scatter plot which would be obtained for a typical scene.

Part A. (5 points) What property is plotted on the X axis, and what property is plotted in the Y axis? Label those two axes. (Note – I don't care as much about the specific name of the axis as I do about what it really represents. If you can't remember the precise name, give a phrase or sentence which conveys the same information as the precise name.

Part B) (5 points)   Sketch on the figure the path which a vegetated area would trace out if you followed it throughout the full growing season. Be sure to add an arrow to your path to show which way it moves.

Modified from Jenson

Fig. 1   Tasseled Cap vegetation data.

2. Multi-level Classification (5 points)

Using the multi-level land use classification scheme a sagebrush prairie would be classified as type "321". For each of the three digits, circle what the digit signifies:

3:     Rangeland   or   (shrub and brushland)   or   Sagebrush

2:     Rangeland   or   (shrub and brushland)   or   Sagebrush

1:     Rangeland   or   (shrub and brushland)   or   Sagebrush