**Vegetation Case Study Assignment 4 - Shirazi Siddiqui**

**Increasing Site**

1. To choose pixel size ,p-value has to be below 0.001 and the slope has to be 1
2. “Which” function has been used to find out pixel site as shown below:

A close up of a device

Description automatically generated

1. Pixel number chosen from above output is **48826** as an extreme increasing site.
2. To plot a graph of increasing in trend, I have used the codes below.

A screenshot of a social media post

Description automatically generated

A screenshot of a cell phone

Description automatically generated

1. As we can see in graph above the vegetation change for site **N08125** is increasing. On the other hand, the trendline also shows the increasing overall trend.

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**Decreasing Site**

1. To choose pixel size ,p-value has to be below 0.001 and the slope has to be -1
2. “Which” function has been used to find out pixel site as shown below:

A picture containing large, computer

Description automatically generated

A close up of a piece of paper

Description automatically generated

1. Pixel number chosen from above output is **36512** as an extreme decreasing site.
2. To plot a graph of decreasing trend, I have used the codes below.

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

1. As we can see in graph above the vegetation change for site **N52030** is decreasing. On the other hand, the trendline also shows the decreasing overall trend.