**Boston University**

**Electrical & Computer Engineering**

**EC464 Senior Design Project**

Second Prototype Testing Plan

**Coastline Predictor**

By

Team 18

Team Sea Rise

Team Members

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Required Materials

Software

* MATLAB\_R2022b
* Elevation Data TIF files for Miami and Boston

Set Up

Once the computer is set up, open MatLab and locate the TIF data file (elevation data of Miami and Boston). Once the TIF files are located, drag and drop into the Matlab folder of scripts and files. Run the MatLab scripts to display the data of the specific region onto the map showing the corresponding real elevation and the new map of the “changed” coastlines.

Testing Procedure

1. Open MatLab scripts (one for Miami, one for Boston)
2. Download elevation data files in TIF format (one for Miami, one for Boston)
3. Import data files into MatLab folder
4. Run the scripts to present the different maps of data

Scoresheet

| **Task** | **Correct? Y/N** |
| --- | --- |
| Import regional elevation data successfully into MatLab |  |
| Run MatLab script with no errors |  |
| Original elevation display map of Miami & Boston |  |
| Second map generation of “fake data” changing elevation map |  |

Measurable Criteria

* Data successfully imports into MatLab folder
* MatLab script is ran successfully without errors
* Output figure shows a map of the elevation on the coastline in Miami & Boston
* The second figure shows a map of “fake prediction data” that changes the elevation and coastline map
* Output figures show a difference between the matrices of data. New one being the matrix of “fake data” effect on the original elevation matrix